

FLOOD REPORT FOR MANITOBA

May 31, 2022

Flood Warning*:

- Little Saskatchewan River
- Whitemud River near Woodside
- Dauphin Lake
- Whiteshell Lakes area
- Winnipeg River
- Assiniboine River, from Shellmouth Dam to Brandon
- Red River, Emerson to the Red River Floodway Channel Inlet
- Shannon Creek, Morris and Little Morris Rivers
- Red River, Red River Floodway Channel Outlet to Lake Winnipeg
- Red River Tributaries
- Rat River
- Roseau River
- Boyne River
- Pembina River System including Pelican and Rock Lakes.
- Fishing and Family Lakes on Berens River System.

Flood Watch*:

- Mossy River
- Souris River, US Border to Napinka.

- Forecasters are continuing to monitor a precipitation system that has brought up-to 80 mm of rain over the past 48 hours. The system is expected to bring an additional 10 to 20 mm of rain to most of Manitoba by the end of the day today. The overland flood warning that was issued yesterday remains in place for the areas highlighted in red on Figure 1 below. Water levels on lakes, streams, and drains are high and soils are saturated, intense and heavy rains could result in overland flooding and potential for flash flooding. Depending on the amount and intensity of rain, water levels could rise rapidly and threaten low-lying or nearby properties, as well as roads, crossings, and other infrastructure.
- Manitoba Transportation and Infrastructure's Hydrologic Forecast Centre has issued a high to severe wind effect alert for today on Manitoba lakes with the highest amounts of wind setup expected on the larger lakes. The weather system will continue today with heavy north winds gusting up to 80 kilometers per hour throughout most of the day. Wind setup has increased levels on the southern shores of Lake Manitoba, Lake Winnipeg and Lake Winnipegosis by 2 to 3 ft (~0.6 to 0.9 m) over the past 36 hours. Lake levels are expected to increase by an additional 1 ft (0.3 m) as winds persist into Tuesday evening. The winds will also cause powerful wave action that will further add to the temporary increase in water levels. On some lakes the water level may approach or exceed flood protection levels. Property owners are advised to remain vigilant and take any necessary precautions. A map of the Manitoba Lake Wind Effect Forecast showing the affected areas is available at https://www.gov.mb.ca/mit/floodinfo/floodoutlook/forecast_centre/lakes/wind_alert/2022/manitoba_lakes_May_31_2022_WindAlertMap.pdf.



Figure 1: Areas under overland flood warning

Summary

- Forecasters continue to monitor a precipitation system that could bring about 10 to 20 mm of rain in southern Manitoba by the end of the day today. The overland flood warning issued yesterday remains in place and include areas east of Provincial Trunk Highway (PTH) 5, from the US border to PTH 1 (Carberry) and south of Lake Manitoba, including Portage la Prairie, Selkirk and Winnipeg, and extending to the southeast corner of the province.
- The weather system will bring strong north winds, gusting up to 80 kilometres per hour, throughout most of the day today. The high to severe wind effect alert that was issued on May 29 for Manitoba lakes remains in effect. Wind setup has increased levels on the southern shores of Lake Manitoba, Lake Winnipeg and Lake Winnipegosis by 2 to 3 ft (0.6 to 0.9 m) over the past 36 hours. Lake levels are expected to increase by an additional 1 ft (0.3 m) as winds persist into Tuesday evening. Wave action could also raise levels by an additional 2 to 3 feet (0.6 to 0.9 m).
- Flooding in the past 24 hours has impacted some properties along the shoreline of Dauphin Lake. Any questions or concerns about flood mitigation should be directed first to the municipal authority.
- Very high flows and water levels are being experienced on the Winnipeg River and other lakes and rivers in the Whiteshell area. Manitoba Hydro measures water levels and flows on waterways contributing to the provincial hydro-electric system and provides a 14-day forecast at https://hydro.mb.ca/corporate/facilities/water_levels/. Forecast information from Manitoba Hydro is also available on the latest flood sheet on the Department's website.

Transportation and Infrastructure

- Manitoba Environment, Climate and Parks has closed some provincial parks, closed campgrounds and some facilities at other provincial parks that otherwise remain open, and advised against travel to some provincial parks. Details on all flood-related closures and advisories in provincial parks are available at www.manitobaparks.com.
- There are a number of provincial and municipal roads across Manitoba that have been damaged or closed due to flooding. Motorists are encouraged to plan their routes before travelling by checking 511 (www.manitoba511.ca/ or by calling 511). Motorists are reminded to stay off of closed roads and to not attempt travel across inundated roads or damaged bridges.
- The Red River Floodway and Portage Diversion continue operation. Provincial crews are deployed to a number of communities in the Red River Valley running pumping operations and monitoring dike closures.
- Manitobans are reminded to stay clear of the Red River floodway inlet and outlet structures, the Portage Diversion gate structures in the Portage Reservoir, and actively flowing spillways on dams. Manitobans are also reminded to stay off waterways in flood stage including creeks, streams, rivers and the floodway. High flows, debris, and cold water temperatures present a significant hazard.
- Current water level data and forecast information is available on the department's website at https://gov.mb.ca/mit/floodinfo/#forecasts_reports.
- Flooding has impacted communities and properties, resulting in damages, mitigation activities and evacuations across southern and central Manitoba. 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

- The precipitation system has brought an average of 35 mm of rain in the Red River Basin over the past 48 hours. Other parts of the province received 10 mm to 40 mm of rain with some localised areas in southern Manitoba, Interlake and Berens River System receiving 50 to 80 mm.
- Forecasters continue to monitor a precipitation system that could bring about 10 to 20 mm of rain in southern Manitoba by the end of the day today. The overland flood warning issued yesterday remains in place and include areas east of Provincial Trunk Highway (PTH) 5, from the US border to PTH 1 (Carberry) and south of Lake Manitoba, including Portage la Prairie, Selkirk and Winnipeg, and extending to the southeast corner of the province.
- The weather system will bring strong north winds, gusting up to 80 kilometres per hour throughout most of the day today. The high to severe wind effect alert that was issued on May 29 for Manitoba lakes remains in effect.

Table 1: Red River Valley Dike Closure Status

Red River Valley Dike Closure Status - May 31, 2022		
Community	Dike Closures	Status
Emerson	at Noyes	Full closure
West Lynne	North West Lynne	Full closure
St. Jean Baptiste	East at PR 246	Full closure
Morris	North at PTH 75	Full closure
St. Adolphe	North at PR 200	Full closure
	West at Tache Avenue	Full closure
	East at PR 210	Full closure (ramped and open to local traffic)
Ste. Agathe	East at PR 305	Partial closure (PR 305 open)

Red River Basin

- A flood warning remains for the Red River from Emerson to the Red River Floodway inlet, and from the outlet to Lake Winnipeg. A flood warning remains for Shannon Creek, Rat, Roseau, Boyne, Morris, Little Morris Rivers, and the remaining Red River tributaries. Water levels on the Red River Tributaries are increasing in response to the precipitation received in the last 48 hours.
- The overland flood warning issued yesterday remains in effect. Water levels on streams and drains are high and soils are saturated, heavy rains could result in overland flooding. Depending on the intensity of rain, water levels could rise rapidly and threaten low-lying or nearby properties, as well as road, crossing and other infrastructure.
- Flood forecasters are monitoring the precipitation system to determine how it will affect flows and water levels on the Red River. There is a possibility, that another flood peak (lower than the previous peak) could occur on the river.
- The Red River Floodway continues to operate under rule 1 to lower water levels in Winnipeg while keeping water levels at or slightly below natural upstream of the inlet control structure. As of this morning, flow in the Floodway channel was 28,499 cfs (807.0 cms), and flows upstream of the Floodway Inlet are approximately 70,350 cfs (1,992.09 cms). The water level at James Avenue was at 18.8 ft (5.73 m) and the estimated water level that would occur at James Avenue without the operation of the Red River Floodway, Portage Diversion, and Shellmouth Dam is 25.51 ft (7.78 m).
- Provincial crews are running pumping operations to facilitate internal drainage inside ring dike communities. Pumping operations are underway at Noyes, Emerson, West Lynne, Dominion City, Letellier, St. Jean Baptiste, Brunkild, Morris, Rosenort, Riverside, St. Adolphe, St. Agathe, and Niverville. Depending on the amount of precipitation and the rise in water levels, some pumping stations may need to be reactivated.
- Provincial crews continue to monitor dike closures in the Red River valley, the current dike closures are in place at locations shown in Table 1.

Pembina River Basin

- A flood warning remains for the Pembina River System including Pelican and Rock Lakes.
- The overland flood warning that was issued yesterday remains in place and includes much of the Pembina River basin. The Pembina River basin has received up to 60 mm of rain over the past 24 hours and is forecasted to receive an additional 10 to 20 mm of rain by the end of the day today. Water levels on lakes, streams and drains are high and soils are saturated. Intense and heavy rains in these areas could result in overland flooding. Depending on the amount and intensity of rain, water levels could rise rapidly and threaten low-lying or nearby properties as well as roads, crossings and other infrastructure.

Assiniboine River Basin

- The flood warning for the Assiniboine River from Shellmouth Dam to Brandon and on the Little Saskatchewan River remains. A flood watch is in place for the Souris River between the US border and Napinka.
- The department is operating the Shellmouth Dam in compliance with the operating guidelines and in consultation with the Shellmouth Liaison Committee. Outflows from the dam have been reduced to help alleviate flooding on agricultural land in downstream parts of the valley, but will result in more rapid water level rise on the reservoir. As of this morning, the reservoir water level is at 1,405.1 feet (428.27 m), an increase of 0.4 ft (0.12 m). Inflows to the reservoir are approximately 5,645 cfs (159.85 cms) and outflows are 2,547 cfs (72.12 cms). Dam operations are continuously assessed and outflows may change in response to conditions.
- Water levels and flows on the Little Saskatchewan River continue to recede at most locations but the water levels remain high. Flood forecasters are monitoring the conditions closely and will issue updates, as required.
- There is some flooding of low-lying areas on the Souris River between the US border and Napinka but all other stretches of the river are reported to be within bank.
- The Portage Diversion is operating to limit discharge to the Lower Assiniboine from the Portage Reservoir to approximately 10,000 cfs (283 cms), in accordance with the operating guidelines. As of this morning, flow down the diversion channel is 6,780 cfs (191.99 cms) and flow on the lower Assiniboine River just east of Portage La Prairie is 9,712 cfs (275.01 cms).

Whitemud River

- A flood warning remains for the Whitemud River near Woodside. Water levels and flows at upstream stations are continuing to increase in response to recent rain and are stable on downstream reaches of the river.

Eastern Region

- The overland flood warning continues for southeastern Manitoba, water levels on streams and drains are high and soils are saturated, heavy rains could result in overland

flooding. Depending on the intensity of rain, water levels could rise rapidly and threaten low-lying or nearby properties, as well as road, crossing and other infrastructure.

- A flood warning remains for the Winnipeg River and the Whiteshell lakes area.
- The forecasted wind could impact the Whiteshell lakes region, and levels are expected to rise between one and two ft along these lakes as a result of wind and wave action.
- Very high flows and water levels are being experienced on the Winnipeg River and other lakes and rivers in the Whiteshell area. Manitoba Hydro measures water levels and flows on waterways contributing to the provincial hydro-electric system and provides a 14-day forecast at https://hydro.mb.ca/corporate/facilities/water_levels/. Forecast information from Manitoba Hydro is also available on the latest flood sheet on the Department's website.
- Manitoba Parks has issued a mandatory evacuation order and closure from the west entrance at the north end of Whiteshell Provincial Park along Provincial Road (PR) 307 eastward to the junction of PR 307 and PR 309. Affected areas include Sylvia Lake, Eleanor Lake, Otter Falls, Barrier Bay, Nutimik Lake, and Betula Lake. During the period of the closure, no person should reside in or enter the closure area in the park.
- The evacuation order and closures apply to all cottage subdivisions, commercial areas, campgrounds, group use, day use, recreational and picnic areas, playgrounds, trails and beaches. The order also includes immediate closure of all backcountry campsites in Whiteshell Provincial Park.
- Manitoba Environment, Climate and Parks has issued new closure on Birch Point Provincial Park due to flooding from Lake of the Woods. Details on all flood-related closures and advisories in provincial parks are available at www.manitobaparks.com.

Parkland Region

- A flood warning for Dauphin Lake and a flood watch for Mossy River remains.
- Flooding due to wind and wave action in the past 24 hours has impacted some properties along the southern shoreline of Dauphin Lake. Any questions or concerns about flood mitigation should be directed first to the municipal authority.
- Manitoba Environment, Climate and Parks has issued new closures and advisories on Rainbow Beach Provincial Park campground and boat launch which are located along the shores of Dauphin Lake. The closure and advisories are issued due to the risk of overland flooding caused by significant rainfall and strong winds. Details on all flood-related closures and advisories in provincial parks are available at www.manitobaparks.com.
- There are still a significant number of provincial and municipal roads that have been damaged or closed in the Parkland region due to flooding. Motorists who need to travel in this area are strongly encouraged to plan their routes before travelling by checking

511 (www.manitoba511.ca/ or by calling 511). Motorists are reminded to stay off of closed roads and to not attempt travel across inundated roads or damaged bridges.

- Pumping operations continue to provide internal drainage at the community of Ste. Rose du Lac.

Manitoba Lakes

- A flood warning remains for Fishing and Family Lakes on the Berens River system.
- The weather system will bring strong north winds, gusting up to 80 kilometres per hour throughout most of the day today. The high to severe wind effect alert that was issued on May 29 for Manitoba lakes remains in effect.
- Wind setup has increased levels on the southern shores of Lake Manitoba, Lake Winnipeg and Lake Winnipegosis by 2 to 3 ft (0.6 to 0.9 m) over the past 36 hours. Lake levels could increase by an additional 1 ft (0.3 m) as winds persist into Tuesday evening.
- The winds will continue to cause powerful wave action that will further add to the temporary increase in water levels. On some lakes the water level may approach or exceed flood protection levels. Property owners are advised to remain vigilant and take any necessary precautions. A map of the Manitoba Lake Wind Effect Forecast showing the affected areas is available at https://www.gov.mb.ca/mit/floodinfo/floodoutlook/forecast_centre/lakes/wind_alert/2022/manitoba_lakes_May_31_2022_WindAlertMap.pdf.
- Manitoba Environment, Climate and Parks has issued new closures and advisories as of yesterday at Camp Morton Provincial Park campground and Grand Beach Provincial Park; as well as travel restrictions to Elk Island and Patricia Beach provincial parks. These parks are located along the shores of Lake Winnipeg. Additional closures and advisories along the shores of Lake Manitoba at Lundar and St. Ambroise Beach Provincial Park, and Watchorn Provincial Park campground were also advised.
- The park closure and advisories are due to risk of overland flooding caused by significant rainfall and strong winds. Details on all flood-related closures and advisories in provincial parks are available at www.manitobaparks.com.
- Outflow from Lake Manitoba through the Fairford River Water Control Structure is now approximately 996 cfs (28.20 cms). Water levels and flows are currently being impacted by winds. The structure is being operated in accordance with the operating guidelines.

*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 develop into a flood watch or flood warning.