

FLOOD REPORT FOR MANITOBA

May 30, 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 could bring up to 75 mm of rain over the next 48 hours with the heaviest rain starting this evening and lasting until Tuesday morning. The system has shifted and the overland flood warning issued yesterday has expanded westward to include areas east of PTH 5 from the US border to PTH 1 (Carberry) and south of Lake Manitoba, including Portage la Prairie Selkirk, and Winnipeg, as highlighted in red on Figure 1 below. Areas along Treherne, Morden, Winkler, Altona, Morris, Emerson and Gretna are expected to receive the higher end of the rain starting this evening and into early morning tomorrow (Tuesday). 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 tomorrow on Manitoba lakes with the highest amounts of wind setup expected on the larger lakes. The forecasted weather system comes with heavy North wind gusting up to 80 kilometers per hour starting this evening and all day on Tuesday. Wind setup could increase levels on Lake Manitoba, Lake Winnipeg, Lake Winnipegosis, and Dauphin Lake by over 5 ft. 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 up to 75 mm of rain in southern Manitoba in the next 48 hours. The updated weather forecast indicates the system now could impact expanded areas along the western portion of the Red River valley with the heavy rain starting this evening and lasting until Tuesday morning. The overland flood warning issued yesterday has been expanded westward to 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 comes with strong north winds, gusting up to 80 kilometres per hour starting this evening and continuing throughout Tuesday. A high to severe wind effect alert has been issued for tomorrow on Manitoba lakes. The forecasted wind could create a high to severe wind effect on Manitoba lakes, with the highest amounts of wind setup

expected on the larger lakes. Wind setup could increase levels on lakes Manitoba, Winnipeg, Winnipegosis and Dauphin by over 5 ft.

- The current Lake Winnipeg level is 715.5 ft. With the wind setup, levels could exceed 720.5 ft. in the southern basins, above the previous record high level of 720.33 ft. recorded on October 27, 2010. With the projected wind setup and wave uprush, water levels could increase by an additional two to three ft. Properties along Lake Winnipeg's south basin at elevations lower than 723 ft. could be impacted.
- The current Lake Manitoba level is 812.2 ft. With the wind setup, levels could exceed 817.2 ft. in the southern basins. With the projected wind setup and wave uprush, the lake level could exceed the flood level (814 ft.) and will affect some low-lying areas. Most properties at the south shore are protected to 817.5 ft. or higher.
- The current Dauphin Lake level is 859.6 ft. With the wind setup, water levels could exceed 864.6 ft. on the southern shoreline, including areas along Ochre Beach. The flood protection level (FPL) for most properties on the southern shoreline is 863 ft and the projected wind setup water level is above the FPL. Many properties in the area are protected to elevations greater than the FPL, but may begin to be impacted at the forecasted levels. Any properties that are below the FPL will experience impacts sooner.
- Very high flows and water levels are being experienced on the Winnipeg River and other lakes and rivers in this area and the expected precipitation will cause them to rise further. 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.
- 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

- Forecasters continue to monitor a precipitation system that could bring up to 75 mm of rain in southern Manitoba in the next 48 hours. The updated weather forecast indicates the system could now impact an expanded area along the western portion of the Red River valley with the heavy rain starting this evening and lasting until Tuesday morning. The overland flood warning issued yesterday has been expanded westward to 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 updated forecast indicates the system could now affect expanded areas along the western portion of the Red River Valley, with heavy rain starting this evening and lasting until Tuesday morning. Areas along Treherne, Morden, Winkler, Altona, Morris, Emerson and Gretna are expected to receive higher amounts of rain starting this evening and into Tuesday morning.
- The weather system comes with strong north winds, gusting up to 80 kilometres per hour starting this evening and continuing throughout Tuesday. The forecasted wind could create a high to severe wind effect on Manitoba lakes, with the highest amounts of wind setup expected on the larger lakes. Wind setup could increase levels on lakes Manitoba, Winnipeg, Winnipegosis and Dauphin by over 5 ft.

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, Morris, and Little Morris Rivers, and is issued for the Boyne River and remaining Red River tributaries.
- The overland flood warning issued yesterday has been expanded west to include south central 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.
- 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 if a lot of rain is received, another flood 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 27,616 cfs (782.00 cms), and flows upstream of the Floodway Inlet are approximately 68,984 cfs

(1,953.41 cms). The water level at James Avenue was at 18.3 ft (5.58 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 24.97 ft (7.61 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, 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.

Table 1: Red River Valley Dike Closure Status

Red River Valley Dike Closure Status - May 30, 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)

Pembina River Basin

- A flood warning is issued for the Pembina River System including Pelican and Rock Lakes.
- The overland flood warning that was issued yesterday has been expanded to include much of the Pembina River basin. The Pembina River basin is expected to be receive high amounts and possibly intense precipitation over the next 48 hours. 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 1,404.7 feet (428.15 m), an increase of 0.5 ft (0.15 m). Inflows to the reservoir are approximately 6,346 cfs (179.70 cms) and outflows are 2,532 cfs (71.70 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, in accordance with the operating guidelines. As of this morning, flow down the diversion channel is 5,862 cfs (165.99 cms) and flow on the lower Assiniboine River just east of Portage La Prairie is 9,923 cfs (280.99 cms).

Whitemud River

- A flood warning remains for the Whitemud River near Woodside. Water levels and flows at upstream stations are beginning 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 is also expected to 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.
- Very high flows and water levels are being experienced on the Winnipeg River and other lakes and rivers in this area and the expected precipitation will cause them to rise further. 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.

Parkland Region

- A flood warning for Dauphin Lake and a flood watch for Mossy River remains.
- The current Dauphin Lake level is 859.6 ft. With the wind setup, water levels could exceed 864.6 ft. on the southern shoreline, including areas along Ochre Beach. The flood protection level (FPL) for most properties on the southern shoreline is 863 ft and the projected wind setup water level is above the FPL. Many properties in the area are protected to elevations greater than the FPL, but may begin to be impacted at the forecasted levels. Any properties that are below the FPL will experience impacts sooner.
- 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 is issued for Fishing and Family Lakes on the Berens River system.
- Manitoba Transportation and Infrastructure's Hydrologic Forecast Centre has issued a high to severe wind effect alert for tomorrow on Manitoba lakes with the highest amounts of wind setup expected on the larger lakes. The forecasted weather system comes with heavy North wind gusting up to 80 kilometers per hour starting this evening and all day on Tuesday. Wind setup could increase levels on Lake Manitoba, Lake Winnipeg, Lake Winnipegosis, and Dauphin Lake by over 5 ft. 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.
- The current Lake Winnipeg level is 715.5 ft. With the wind setup, levels could exceed 720.5 feet in the south basin, above the previous record high level of 720.33 ft. recorded on October 27, 2010. With the projected wave uprush, water levels could increase by an additional two to three feet. Properties along Lake Winnipeg's south basin at elevations lower than 723 ft. could be impacted.

- The current Lake Manitoba level is 812.2 ft. With the wind setup, levels could exceed 817.2 ft. in the south basin. With the projected wind setup and wave uprush, the lake level could exceed the flood level (814 ft.), and will affect some low-lying areas. Most properties on the south shore are protected to 817.5 ft. or higher.
- Outflow from Lake Manitoba through the Fairford River Water Control Structure is now approximately 4,061 cfs (114.99 cms). 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.