



**Forecasting and Flood Response Coordination
Regulatory and Operational Services,
Manitoba Water Stewardship**

**Flood Report for Manitoba
April 27, 2009**

Weather Conditions:

- The storm system moved across the Dakotas yesterday produced 13 mm of rain at Grand Forks but little in southern Manitoba. Another storm expected to move from Montana eastward across the Souris and Red River watersheds on Wednesday could bring 25-30 mm over North Dakota portion of the Souris River watershed, and 10-15 mm over the Red River watershed and much of southern Manitoba.
- Winds fairly light becoming east 20-30 Wednesday and northerly on Thursday.

City of Winnipeg:

- The Red River level at James Avenue in Winnipeg this morning was 19.44 feet, a decline of 0.07 feet from yesterday morning. The computed natural level for this morning (without flood control works) is 30.6 feet which is 0.3 feet higher than the observed crest in 1950.
- The decline of river levels in Winnipeg will be gradual for the next few weeks even with favourable weather due to the need to gradually lower the gates on the floodway control structure at St. Norbert. The gates must be lowered gradually since natural river levels at the floodway inlet will be declining slowly and controlled levels must remain just below the natural levels.
- The river level at James Avenue in downtown Winnipeg is expected to decline to 18 feet by May 4 based on favourable weather conditions. Levels after that will depend on a decision regarding Portage Diversion operation and on weather conditions but the intent is to maintain levels no higher than 18 feet.
- The crest of 22.5 feet at James Avenue in Winnipeg was the second highest since major flood control works began operation in 1969. The crest was 24.5 feet in 1997. The 2009 crest natural (without flood control works) of 32.5 feet in Winnipeg is the second largest since 1852. The natural crest in 1997 was 34.4 feet and that of 1852 was 34.5 feet. The crests for the 1776 and 1826 floods are estimated at 36.5 feet.

Emerson to St. Adolphe:

- The river level declined between 0.1 and 0.2 feet at most locations except at Emerson where it declined 0.3 feet.

- River levels will continue to decline very slowly for the next few days and will begin to decline more significantly after the middle of this week.
- With favourable weather, the level at Morris is expected to decline to the PTH 75 elevation of 775 feet by mid May. Opening of the highway would occur somewhat later following a road condition inspection.
- Strong winds and wave action can cause river levels at Letellier, Morris and Brunkild to fluctuate by one foot or more. Wave action can erode dikes and closures. Vigilance should be increased when strong winds are predicted.
- The Red River at Grand Forks continues to decline at half a foot per day.

Floodway Inlet:

- The floodway gates will continue to be operated to maintain levels somewhat below natural levels upstream at the floodway inlet. There will be a very gradual lowering of the control gates for most of this week.
- The water level upstream of the Floodway Inlet this morning was 765.63 feet, a decline of 0.33 feet since yesterday morning. The flow into the Red River Floodway this morning was 37,900 cubic feet per second (cfs) of a total 93,300 cfs upstream of the Floodway Inlet.
- The level at the Floodway Inlet is expected to decline to 760 feet by May 10 based on favourable weather.
- The natural level at the floodway inlet crested at 766.96 feet on April 21 and the natural flow crested at 97,900 cfs on April 23.

Lockport to Breezy Point:

- Levels in this portion continue to decline very slowly for the rest of this week. Levels declined between 0.1 and 0.2 feet from Lockport to Breezy Point since yesterday morning.

Assiniboine River:

- Flow into Portage Reservoir declined from 12550 cfs yesterday morning to 11825 cfs this morning. A gradual decline is expected to continue for the rest of this week as the decline in flows at Brandon will exceed the rise in flows on the Souris River. The flow in the Portage Diversion this morning was 12,260 cfs and the flow in the river downstream was 565 cfs. River flows toward Winnipeg may be increased once levels at James Avenue in Winnipeg are below the flood stage of 18 feet, depending on conditions at that time.
- Continued high flows in the Portage Diversion have resulted in considerable flooding of farmland west of the Portage Diversion due to overtopping of the failsafe. The function of the failsafe is to localize damage on the diversion embankments to a relatively small area.

- Assiniboine River levels from Baie St. Paul to Winnipeg will decline very slowly until Assiniboine River flows downstream of the Portage Diversion at Portage la Prairie are increased.
- River levels continue to decline rapidly in the Griswold to Brandon area with a decline of more than one foot at Griswold and 0.62 feet at 1st Street in Brandon since yesterday morning. The Assiniboine River now below flood stage at all points.
- The outflow from Shellmouth Reservoir remains at 50 cfs. The reservoir water level has risen 0.35 feet since yesterday and stood at 1400.71 feet this morning. The level is expected to reach 1403.5 feet by mid May, which is an ideal level heading into the summer.

Souris River:

- The Souris River continues to rise at about one-third of a foot per day at most locations. The level was 1408.10 feet at Melita this morning, a rise of 0.29 feet.
- The forecast for the Souris River has been further updated. It is now expected that crests from Coulter to Napinka will be only half a foot lower than those of 1999. Portions from Hartney to Wawanesa will have crests about one foot lower than in 1999. These forecasts are based on normal weather conditions. Levels could rise somewhat higher if Wednesday's precipitation develops as predicted.
- The crest is expected at Coulter on May 2, Melita on May 4 and Wawanesa on May 9.
- Significant overbank flooding is underway from the U.S. boundary to just south of Melita. The river is expected to remain generally within its banks at points from north of Melita to Wawanesa but there could be minor flooding in low lying portions.
- The duration of flooding in the Coulter area should be much shorter than in 1999 unless unusually heavy rain develops as in 1999. Flooding that year extended into June.

Pembina River:

- Flooding of the Pembina Valley continues from Rock Lake to Near Windygates but levels are declining at all points.
- The level declined 0.25 feet at La Riviere during the 24 hour period ending this morning.
- Rock Lake had declined to 1336.32 feet as of this morning, a decline of 0.11 feet from yesterday morning. While the level remains high, there is no serious shoreline flooding at this time. The normal summer level is near 1330 feet.
- The level of Pelican Lake is estimated at 1352.9 feet this morning based on a reading taken yesterday afternoon. The outlet control works continue to be operated at the maximum outflow possible (about 400 cfs today) in order to reduce the lake to its desirable level of 1351.7 feet.

- The Pembina River at Neche has declined 0.2 feet since yesterday and will continue to decline slowly. There is no longer a concern about boundary overflows or flooding at Gretna or Halbstadt.

Other Rivers:

- Both the Fisher River and the Icelandic River crested a week ago and levels have decline by three to four feet since that time. Flooding along these rivers has now essentially ended.
- Overland flooding continues in portions of the Interlake region but is generally subsiding. Flooding could easily be prolonged or increase if significant precipitation were to develop during the next few weeks.

Lakes:

- Many lakes such as Lake Winnipeg, Lake Manitoba and Dauphin Lake are still ice covered. Some smaller lakes such as Pelican Lake are partially ice covered. Ice is expected to break up next week. Strong winds may cause ice to push to considerable depths up the shoreline in areas of shallow ground slopes such as at beaches.
- Ice pushed up shorelines by strong winds can cause significant damage and pose a risk to low lying cottages. Those who have experienced such difficulties before are advised to take whatever precautions may be feasible, such as moving valuables to higher ground.
- The level of Lake Winnipeg is presently at 714.6 feet. The lake is regulated within the range of 711 to 715 feet.
- The level of Lake Manitoba is presently at 812.28 feet. The lake is regulated within the range of 810.5 to 812.5 feet.
- Lakes in the Whiteshell area are well above their summer target levels at this time, which is not unusual during spring runoff. Brereton Lake is near a record high level. Logs are being removed to reduce lake levels.

Overland Flooding:

- Overland flooding continues in some portions of the Red River Valley and the Interlake but is subsiding in most areas. Overland flooding has ended in most areas but could continue for several more weeks in low-lying areas of the Interlake. Flooding could quickly re-develop if significant rainfall were to occur.
- Further details are provided below and specific forecasted crest stages are shown on the daily flood sheets issued by Manitoba Water Stewardship. This information may be viewed at <http://www.gov.mb.ca/waterstewardship/floodinfo/floodsheet.html>