

Hydrologic Forecasting and Water Management, Manitoba Infrastructure

**DAILY FLOOD SHEET - Imperial
Red River**

April 8, 2019

<http://www.gov.mb.ca/mit/floodinfo>

LOCATION	Today's Conditions		Change from Apr 07 (ft)	Total Rise (ft)	Forecasted Peak		DIKE ELEV (ft)	Existing Channel Capacity		2018 Spring Peak		Reference Years			
	FLOW (cfs)	LEVEL (ft)			LEVEL (ft)	DATE		FLOW (cfs)	LEVEL (ft)	FLOW (cfs)	LEVEL (ft)	2009		2011	
												FLOW (cfs)	LEVEL (ft)	FLOW (cfs)	LEVEL (ft)
Wahpeton, MN	4,670	12.10	-0.43					10.00	1,911	8.10					
Fargo, ND	19,300	34.92	+0.63					18.00		8.10	29,100	40.80			
Halstad, MN		36.77	+1.43						18,505	24.84	67,500	40.50			
Grand Forks, ND		39.59	+2.78					28.00	27,899	34.94	80,000	49.50			
Drayton, ND		30.01	+2.64					32.00	30,688	34.42	85,700	43.60			
Emerson	18,477	771.71	+3.62		789.2	Apr 16-19	795.60	783.20	32,843	774.74	86,000	790.80	79,100	790.30	
Letellier		*			784.0	Apr 18-21	790.60	780.10		772.69		785.20		784.60	
St. Jean		*			779.6	Apr 18	788.00	771.60		766.23		782.90		781.80	
Morris - PTH 23		*			776.4	Apr 19-22	787.40	769.40		762.13		781.90		779.30	
Ste. Agathe	20,553	750.37	+3.26		769.3	Apr 20-23	778.50	771.00	34,043	753.54	90,760	773.70	73,300	771.70	
St. Adolphe		*			764.3	Apr 20-23	775.50	757.50			98,000	769.20		767.20	
Above Floodway Inlet - Natural												767.00			
Above Floodway Inlet - Actual		744.01	+5.85				773.50	760.00	32,172	747.91	98,000	766.80	75,200	764.10	
Below Floodway		743.59	+5.86					752.00		747.92	55,800	756.60	39,900	752.90	
Floodway Channel	0														
Winnipeg - James Avenue		12.30	+6.07				26.50	18.00		743.37	72,000	22.50	58,600	19.60	
Lockport - u/s Dam		724.61	+0.11					735.00		734.91		738.50		732.70	
Lockport - d/s Dam								735.00				737.90		732.60	
Selkirk - Dock		718.50	+1.26					727.50	44,143	717.19	113,000	729.40			
Selkirk - PTH 4								724.50				726.60		722.60	
Breezy Point		715.12	+0.95					718.00		716.06		721.90		718.20	

* Water level gauge only activated at higher flows

Please note that the 2019 water levels at Ste. Agathe and Emerson are reported to the CGVD28 vertical reference datum whereas the Water Survey of Canada website reports the water levels at these locations to the CGVD2013 vertical reference datum.

Hydrologic Forecasting and Water Management, Manitoba Infrastructure

**DAILY FLOOD SHEET - Metric
Red River**

April 8, 2019

<http://www.gov.mb.ca/mit/floodinfo>

LOCATION	Today's Conditions		Change from Apr 07 (m)	Total Rise (m)	Forecasted Peak		DIKE ELEV (m)	Existing Channel Capacity		2018 Spring Peak		Reference Years			
	FLOW (cms)	LEVEL (m)			LEVEL (m)	DATE		FLOW (cms)	LEVEL (m)	FLOW (cms)	LEVEL (m)	2009		2011	
												FLOW (cms)	LEVEL (m)	FLOW (cms)	LEVEL (m)
Wahpeton, MN	132.2	3.69	-0.13					3.05	54.1	2.47					
Fargo, ND	546.5	10.64	+0.19					5.49		2.47	824.0	12.44			
Halstad, MN		11.21	+0.44						524.0	7.57	1,911.4	12.34			
Grand Forks, ND		12.07	+0.85					8.53	790.0	10.65	2,265.3	15.09			
Drayton, ND		9.15	+0.80					9.75	869.0	10.49	2,426.8	13.29			
Emerson	523.2	235.22	+1.10		240.54	Apr 16-19	242.50	238.72	930.0	236.14	2,435.2	241.04	2,239.9	240.88	
Letellier		*			238.95	Apr 18-21	240.97	237.77		235.52		239.33		239.15	
St. Jean		*			237.61	Apr 18	240.18	235.18		233.55		238.63		238.29	
Morris - PTH 23		*			236.64	Apr 19-22	240.00	234.51		232.30		238.32		237.53	
Ste. Agathe	582.0	228.71	+0.99		234.47	Apr 20-23	237.29	235.00	964.0	229.68	2,570.1	235.82	2,075.6	235.21	
St. Adolphe		*			232.95	Apr 20-23	236.37	230.89			2,775.1	234.45		233.84	
Above Floodway Inlet - Natural												233.78			
Above Floodway Inlet - Actual		226.77	+1.78				235.76	231.65	911.0	227.96	2,775.1	233.72	2,129.4	232.90	
Below Floodway		226.65	+1.79					229.21		227.97	1,580.1	230.61	1,129.8	229.48	
Floodway Channel	0.0														
Winnipeg - James Avenue		3.75	+1.85				8.08	5.49		226.58	2,038.8	6.86	1,659.4	5.97	
Lockport - u/s Dam		220.86	+0.03					224.03		224.00		225.09		223.33	
Lockport - d/s Dam								224.03				224.91		223.30	
Selkirk - Dock		219.00	+0.38					221.74	1,250.0	218.60	3,199.8	222.32			
Selkirk - PTH 4								220.83				221.47		220.25	
Breezy Point		217.97	+0.29					218.85		218.26		220.04		218.91	

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