



#### Red River Comparison of 2011 and 1997 Conditions

	2011	1997
Soil Moisture Index	Extreme: 2 <sup>nd</sup> Highest Since 1948	Moderate: Slightly Above Average
Snow Cover as of Mid January	70 – 100 mm: Heaviest in USA	80 -120 mm: Heaviest in USA
Expected SWE in Early April	125 mm – Median 165 mm – Upper Decile	175 -225 mm
Soil Frost	Moderate	Moderate
Jan 22 Flow @ Emerson	4,000 cfs	900 cfs
Jan 22 Flow @ Headingly	3,000 cfs	460 cfs
Jan 22 Level @ James Av	5.9 feet	2.1 feet
River Ice Thickness (Sparse Data)	1.5 – 2.0 feet	1.5 – 2.0 feet
Melt Conditions	Unknown	Initial Melt in March; Rapid melt mid April
Shellmouth Reservoir; Jan 22 <sup>nd</sup>	1398.80 feet	1395.32 feet
Spring Weather Conditions	Unknown	Blizzard



#### Red River Forecast Summary

Favourable weather conditions: Flood similar to 2001

Average weather conditions: Flood similar to 2009

Unfavourable weather conditions: Flood similar to 1997



# Pembina River Forecast Summary

Favourable weather conditions: Minor flooding

Average weather conditions: Flood similar to 1979

Unfavourable weather conditions: Flood higher than 2009



#### Roseau River Forecast Summary

Favourable weather conditions: Minor flooding

Average weather conditions: Flood similar to 2009

Unfavourable weather conditions: Flood similar to 2002



# **Assiniboine River Forecast Summary**

Favourable weather conditions: Minor flooding

Average weather conditions: Flooding from

Millwood to Portage

Unfavourable weather conditions: Flooding from

Shellmouth to Brandon

similar to 1976 level or higher



# Souris River Forecast Summary

Favourable weather conditions: Flooding similar to 2009

Average weather conditions: Flooding similar to 1974

Unfavourable weather conditions: Flooding greater than

1974 but less than record

flood of 1976



#### **Interlake and Eastern Manitoba**

Favourable weather conditions: Minor flooding in many areas

Average weather conditions: Overland flooding in most

areas

Flooding on Fisher River close

to 2006

Some flooding on Brokenhead, Whitemud, and Icelandic Rivers

Record high levels on Shoal

Lakes

Unfavourable weather conditions: Flooding in most areas

Fisher River similar to 1986 flood

Serious Shoal Lake flooding



#### Westlake, Dauphin, The Pas Regions

Favourable weather conditions: Minor flooding in most low-

lying areas

Flooding possible on Average weather conditions:

many streams such as

Whitemud, Turtle, Swan and

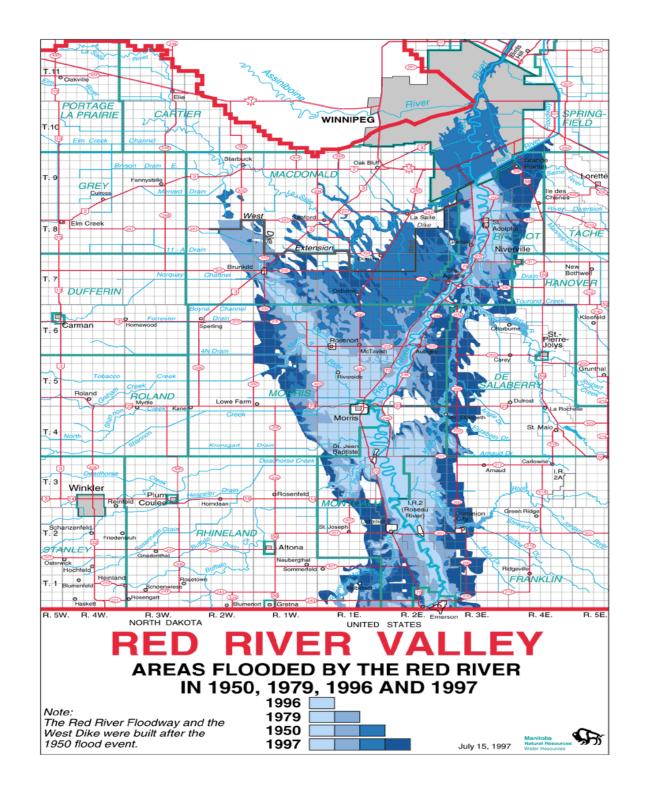
Carrot Rivers as well Saskatchewan River

at The Pas

Unfavourable weather conditions: Flooding likely on

many streams with near record flows and levels – 1974 or larger flood could occur at

The Pas





# Detailed forecast (Text and Charts) available on the Manitoba Water Stewardship website:

http://www.gov.mb.ca/waterstewardship/floodinfo/index.html