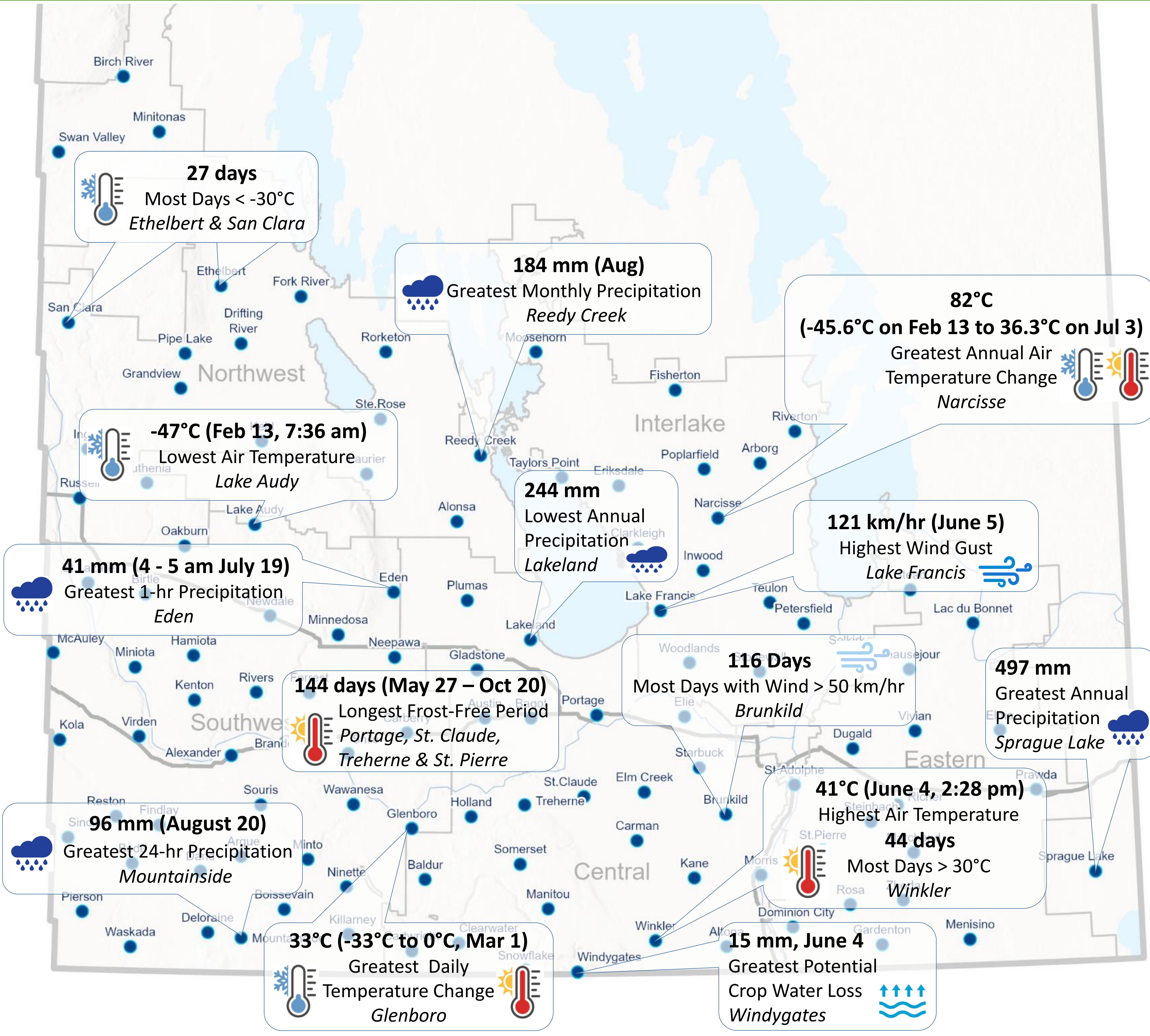


Agro-Manitoba Weather Extremes of 2021

Manitoba Agriculture Weather Program



Manitoba Ag Mesonet

- Manitoba Agriculture Weather Program operates a network of 114 solar powered weather stations using research-grade sensors. Each station is visited at least twice every year for maintenance and sensor calibration.
- Four new stations were constructed in 2021 near Brandon, Richer, Petersfield and Clarkleigh and there are plans to continue expanding coverage at identified gaps throughout the agriculture regions of the province this year.
- Weather data collected at each station includes air temperature and humidity at 2 m above ground; wind speed/direction at 10 m; soil temperature and moisture at 5, 20, 50 and 100 cm depths; solar radiation at 2.5 m; all-weather precipitation gauge at 1.5 m; tipping bucket rain gauge at 1 m and barometric pressure at 1.5 m.
- Each station records data at fifteen minutes, hourly and daily intervals. Data from the sensors are transmitted every 15 minutes from April 1 to October 31 but reduced to hourly from November 1 to March 30 to minimize the load on power supply during cold winter months.

For more information, visit:
<https://www.gov.mb.ca/agriculture/weather/weather-conditions-and-reports.html>