

# SOIL CONDITIONS

There are four factors to consider when assessing the risk of spring flooding. Those factors are *soil conditions*, snowpack, reservoir levels, and the long-term precipitation forecast.

1

## Flood Risk Factor 1 Soil Conditions

Fall precipitation for much of the basin was well above normal, with particularly high September rainfall totals in North Dakota. In Minot, approximately 8 inches of rain fell in September. September rainfall tended to taper off farther north, with 6 inches of rain occurring in Estevan, Saskatchewan and 4 inches occurring in Weyburn, Saskatchewan. In general, soil moisture content is very high, indicating high risk for runoff potential.

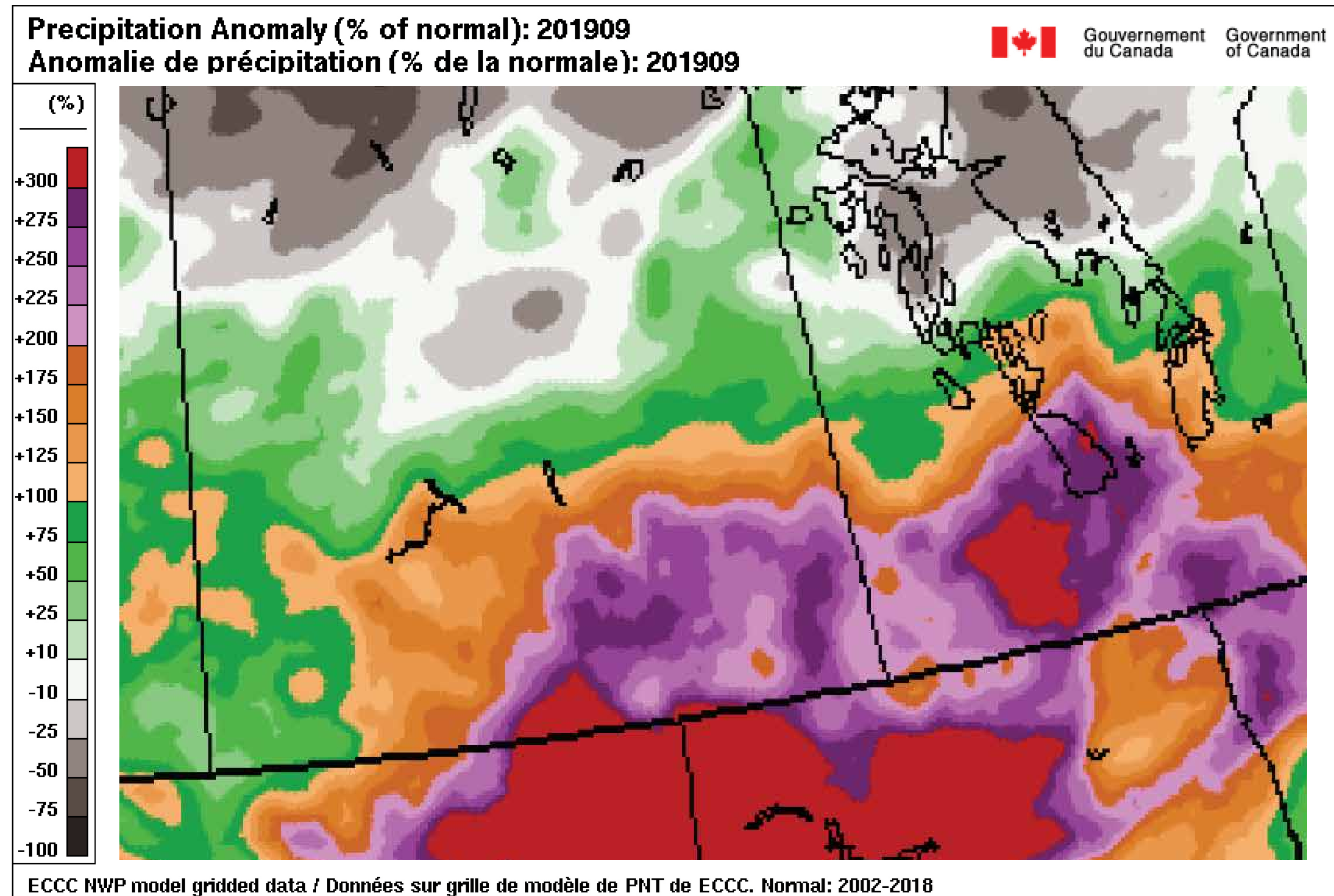


Figure 3: September 2019, Percent Normal Precipitation  
(Map Courtesy of Environment and Climate Change Canada)