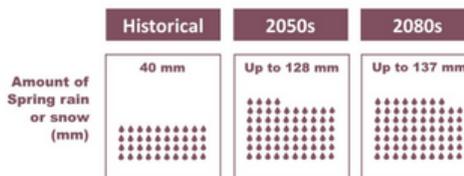


Prairie Climate Change by Season

SPRING

MORE PRECIPITATION MEANS:

- Increased soil erosion
- Difficulty seeding crops--agricultural and economic impacts
- Increase in drainage issues and flood damage
- Sewer backups
- Water stress on plants



SUMMER

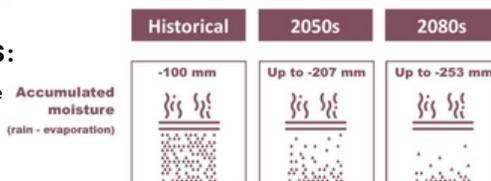
MORE DAYS OVER +30 DEGREES MEANS:

- Increased health issues and even deaths
- Increased stress on livestock and plants
- Enhanced conditions for drought and wildfires
- Crop losses due to increased insect activity
- Infrastructure damage
- Increased energy costs for cooling



LESS ACCUMULATED MOISTURE MEANS:

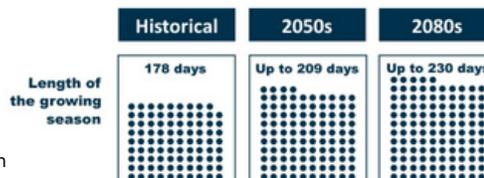
- Enhanced conditions for more frequent and severe drought and wildfires
- Insufficient water availability
- Tree loss
- Changes in landscapes
- Enhanced susceptibility to crop and frost pests



FALL

A LONGER GROWING SEASON MEANS:

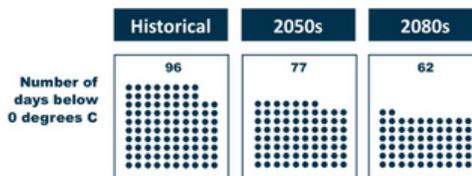
- Changes in plant growth and distribution
- New areas available for crops
- New plant varieties available for crops if changes in precipitation and temperatures support crop growth and harvesting
- Potential for reduced biodiversity and lower water quality if agriculture expands into new areas



WINTER

FEWER DAYS BELOW ZERO MEANS:

- More freezing rain conditions and ice storms, leading to more accidents
- Expanded range and populations of pest species
- Less stable ice on waterways could lead to more injuries and deaths
- Changes in recreational and tourism opportunities



WARMER WINTERS MEAN:

- Reduction in snow and ice sports
- Increased flooding
- Stress on plants and forests
- Fish kills in lakes



SOLUTIONS BY SEASON

- Green infrastructure
- Integrated rainwater management
- Sewer sizing
- Improvements in landscape design
- Support to local farmers
- Cooling centres
- Cooling method awareness
- Shelters for animals
- Shade tree planting for recreation areas
- Use native and drought-tolerant plant species in community plantings
- Water restrictions and bans
- Water conservation
- Pest defences
- Cautious and sustainable agriculture practices
- Technology adoption
- Support and info from agriculture ministries, industry and producer groups
- Changing crop varieties
- Awareness of potential dangers
- Improving road treatment for ice
- Switch to winter tires over all-season
- Changing recreational and tourist offerings
- flood defences