Climate's impact on water availability



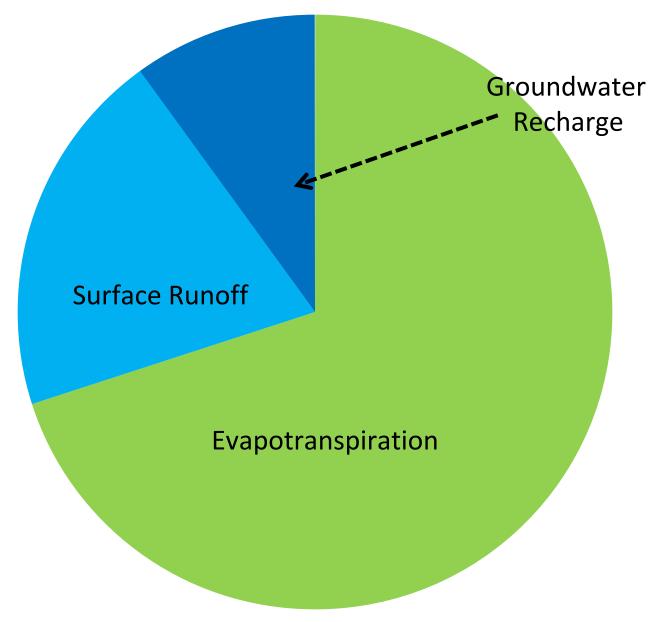
Greg Spoden DNR State Climatology Office

Groundwater Thresholds Project Stakeholders Meeting

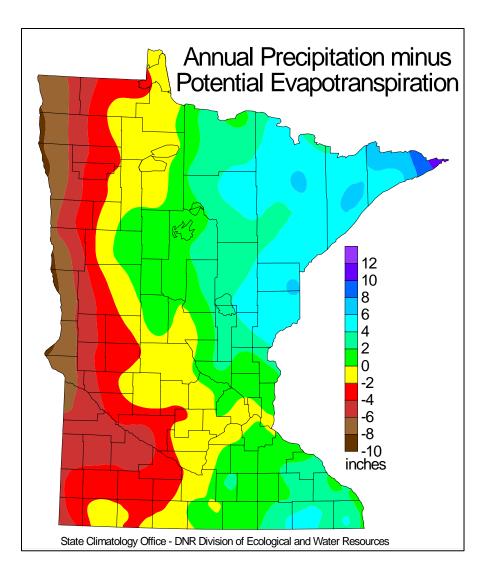
September 30, 2015



The Fate of Precipitation in Minnesota



Water quantity reflects a balance between precipitation and losses due to evapotranspiration



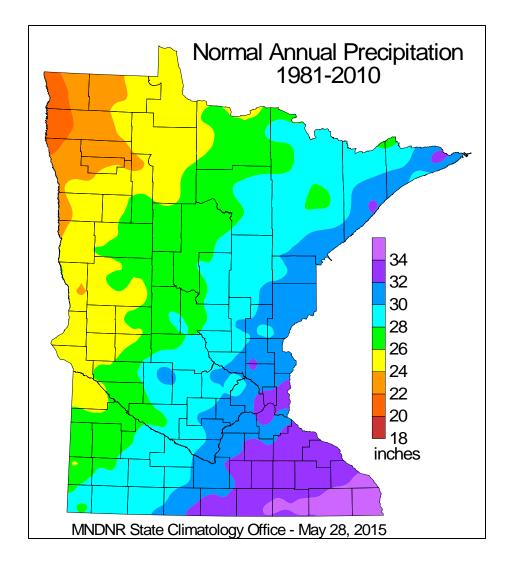
Minnesota's highly variable climate

Minnesota's continental position leads to significant ...

- differences across space
- differences over time

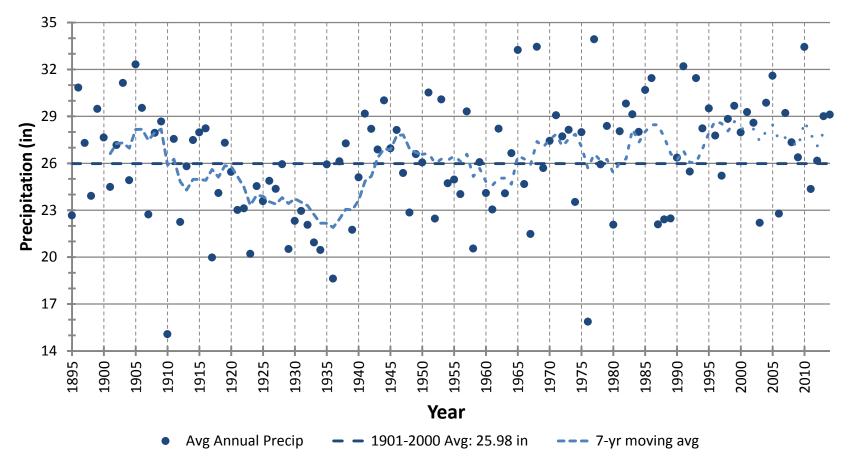


Climate variability across space

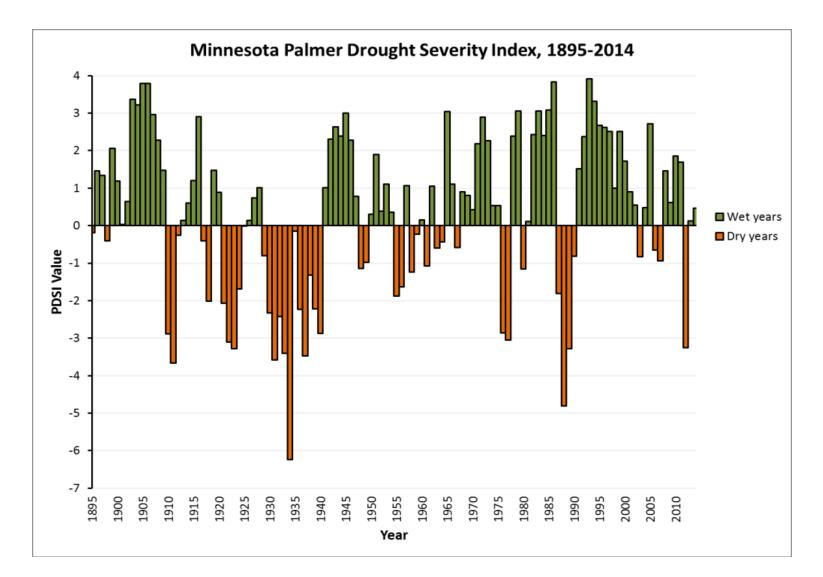


Climate variability over time

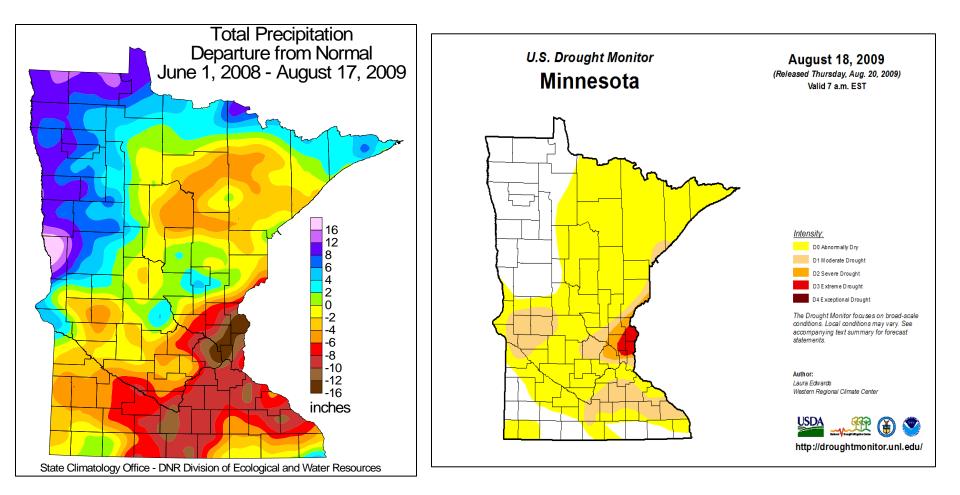
Minnesota Annual Precipitation 1895-2014

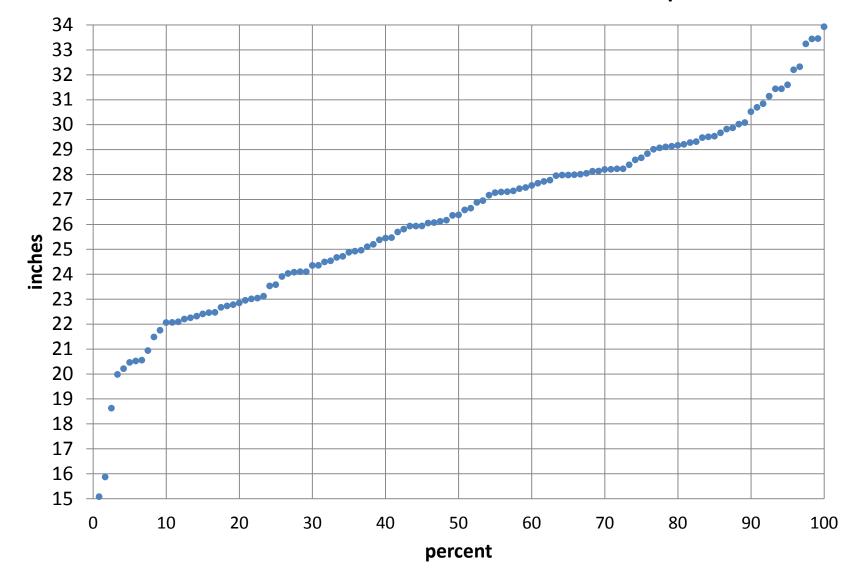


Climate variability over time



Climate variability across space and time





Percent Occurrence - Minnesota Statewide Annual Precipitation

100-year 24-hour Rainfall Event

