

Abstract:

1. The Driftless Area is expected to experience higher temperatures and more intense and frequent rainfall events as climate changes (high certainty).
2. Soil moisture is expected to decline, especially when droughts occur, but effects may be offset by increases in precipitation.
3. Trout distributions are predicted to decline with warming stream temperatures, and the way species interact (e.g., Brook Trout *Salvelinus fontinalis* and Brown Trout *Salmo trutta*) will change in complex ways, such as being externally influenced by changing parasite-host relationships (e.g., gill lice *Salmincola edwardsii*).
4. Changes in precipitation frequency and intensity will change water: sediment balances in streams, altering stream stability and habitat for aquatic biota. These changes, such as flooding frequency, have been shown to influence trout population dynamics at a regional scale.

URL: https://www.tu.org/wp-content/uploads/2019/02/ClimateChange_DauwalterMitro_DASymp_Final.pdf