The Future of Minnesota’s Clean Water in a Changing Climate

Highlights from current UMN Research
INSTITUTE ON THE
ENVIRONMENT

UNIVERSITY OF MINNESOTA
Driven to Discover℠
UMN Research Inventory

What current research across UMN System could inform the plan?

2020 Water Plan Goals
Examples of UMN Research
MN Goal: Protect surface/groundwater from effects of Climate Change

Issue

Northern Lakes and forest region shallow lakes management

Example UMN Research

Wetter climate will introduce nutrient discharge (D Mulla et al.)

Harmful algal blooms with warmer and increased runoff (B Allen, M Handzo, P Capel)
MN Goal: Protect surface/groundwater from effects of Climate Change

Issue

- Soil health and farmer resilience with greater weather extremes

Example UMN Research


- Kernza and sustainable supply chains (N Jordan et al.)
MN Goal: Better resilience related to groundwater quantity and supply

**Issue**

**Example UMN Research**


**Perennial crop production to prevent nitrate leaching** (D Fuchs, J Jungers, et al.)
MN Goal: Resilient fish management

Issue

Water recreation impacts due to climate change

Example UMN Research

Impacts of Climate Change on water habitat (G Hansen et al.)

Cisco Refuge Lakes (Hansen et al.)