



**YOU ARE INVITED  
TO THE  
RED RIVER BASIN/COLD CLIMATE  
AGRICULTURAL NUTRIENTS BMP  
WORKSHOP**

**April 16-17, 2019  
University of Minnesota-Crookston  
Crookston, MN**

**WHAT IS THE COLD CLIMATE NUTRIENT BMP WORKSHOP:** Implementing agricultural beneficial management practices (BMPs) is critical to reducing nutrient runoff and improving water quality. Recent research, however, suggests that the effectiveness of some BMPs in cold climates may differ from observations from areas south of the Red River Basin. This workshop will review and explore the available research on BMP effectiveness in northern climates to develop consensus recommendations on BMP effectiveness.

Attendees will lend their expertise as we:

1. Describe the current factors and mechanisms affecting nutrient fate and transport on agricultural lands and their delivery to surface waters;
2. Discuss pertinent research regarding BMPs designed to reduce nutrient loss from agricultural lands;
3. Identify gaps in our understanding of BMPs designed to reduce nutrient loss and to determine the potential for collaborative research efforts to address those gaps;
4. Develop a report documenting the discussion and potential areas of consensus regarding BMP recommendations to farmers.

**WHO SHOULD ATTEND:** This science workshop is intended for researchers and professionals from agriculture, engineering, hydrology, conservation, and natural resource managers who have experience working with BMPs in agricultural landscapes.

**For more information and to register for the [workshop](https://z.umn.edu/bmpworkshop) go to**

**<https://z.umn.edu/bmpworkshop>**

**Please register by April 5th**

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**WORKSHOP SPONSORS:** Agriculture and Agri-Food Canada; Environment and Climate Change Canada; International Water Institute; North Dakota Department of Health; North Dakota Soybean Council; Northwest Region Sustainable Partnership; Red River Joint Water Resource Board; Red River Retention Authority; Red River Watershed Management Board; USDA Natural Resources Conservation Service

**COOPERATING AGENCIES AND ORGANIZATIONS:** North Dakota State University; NDSU Extension; University of Minnesota Extension; University of Manitoba; South Dakota State University Extension; International Plant Nutrition Institute; Manitoba Agriculture; Manitoba Sustainable Development; Minnesota Board of Soil and Water Resources; Minnesota Department of Agriculture; North Central Region Water Network; North Dakota Association of Soil Conservation Districts; North Dakota Department of Agriculture; Barr Engineering; Pembina Valley Conservation District; Red River Basin Commission