



United States Army Corps of Engineers

- Regulatory Responsibilities
- Clean Water Act



Office of the State Engineer/State Water Commission

- Water Management & Appropriation
- Water Distribution Development

WATER Water Resource Districts

Local Water Resource Management

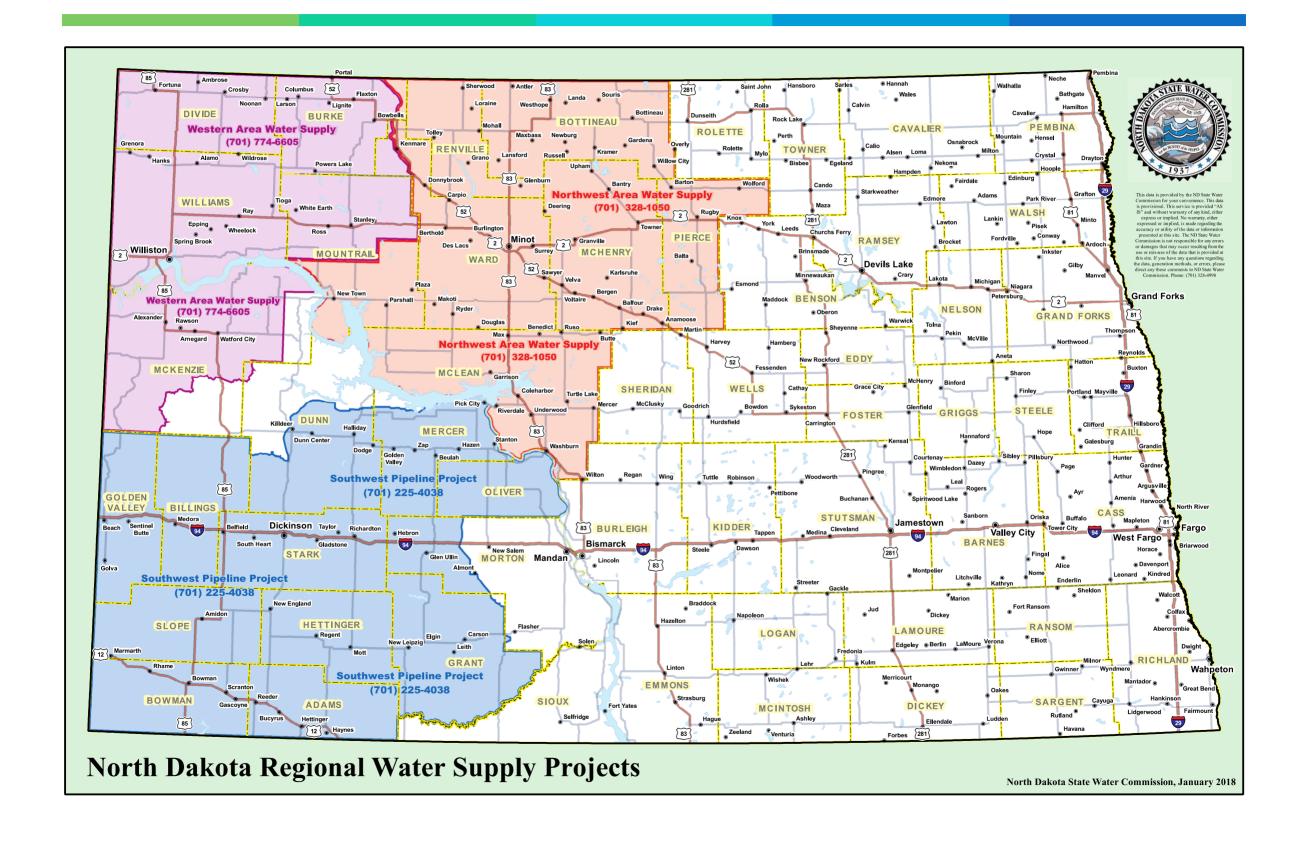


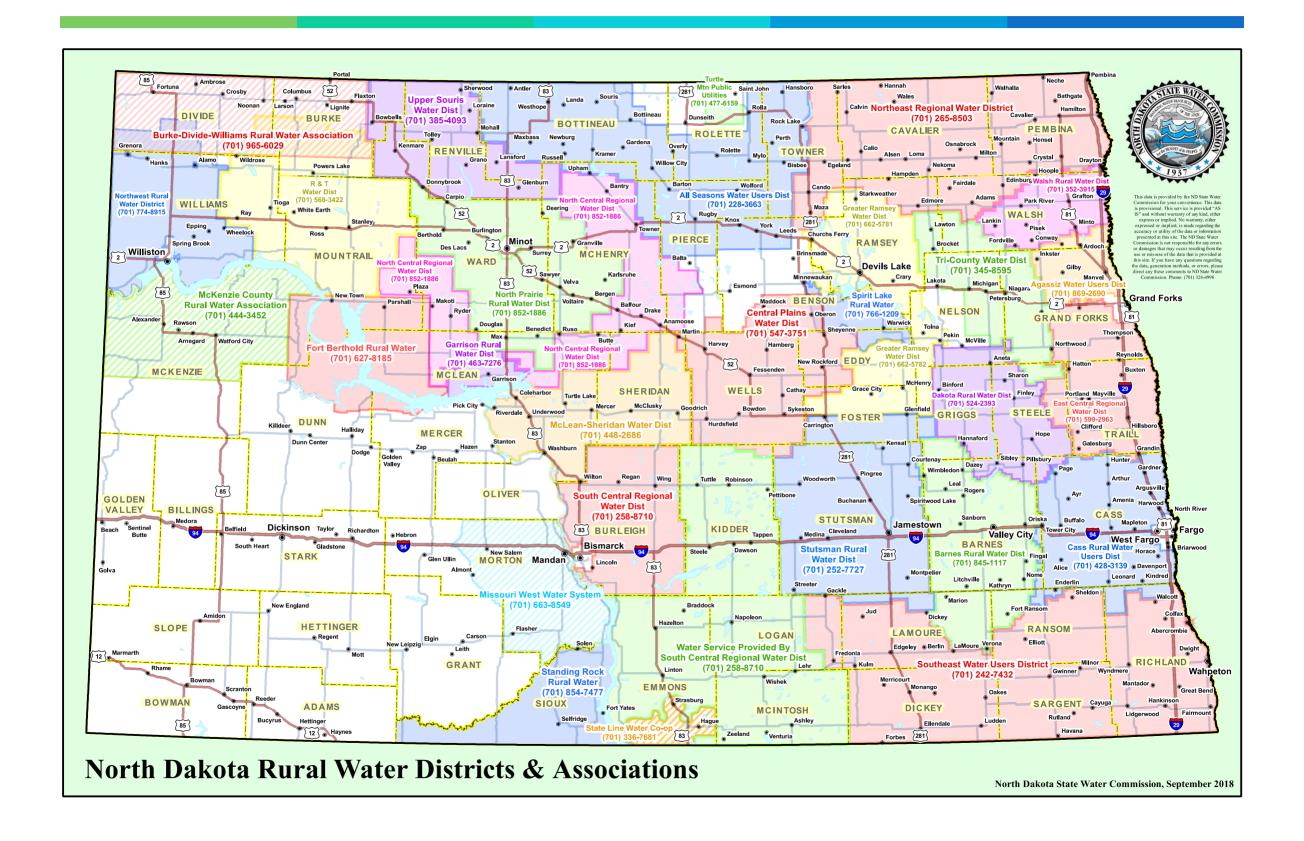
Local Potable Water Distribution Management

Water Resource Districts

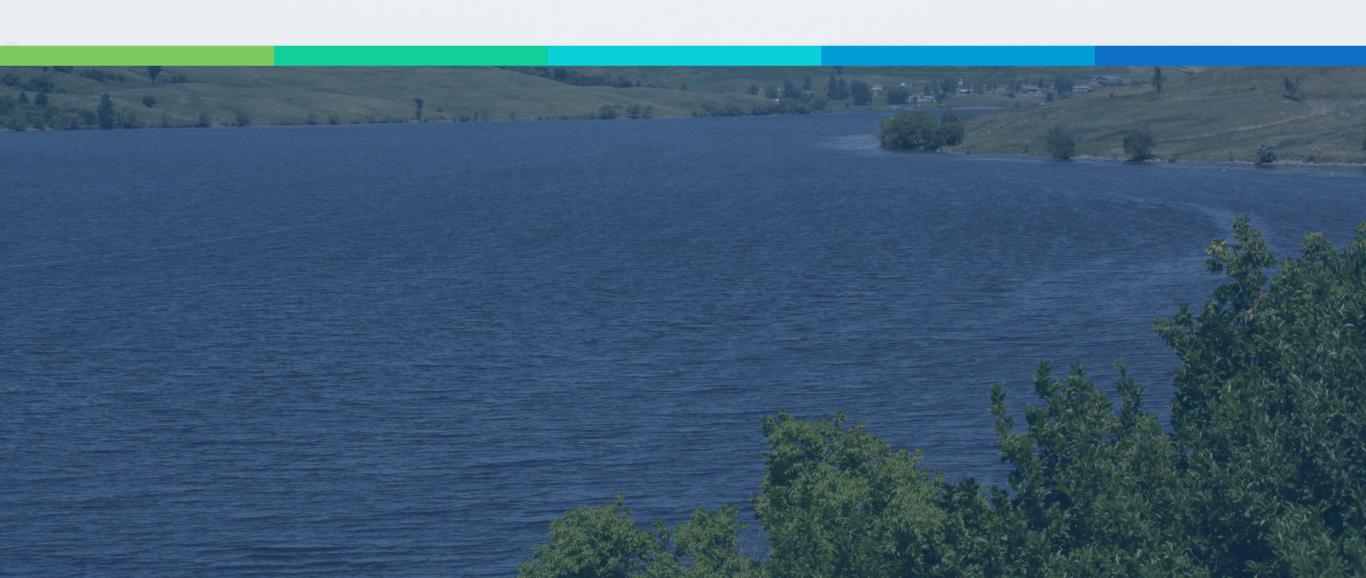
Achieve ND Legislative Intent to Manage, Conserve, Protect, Develop, & Control Water Resources to Protect Lives, Health, Property, & Rights of All People.







ADMINISTRATIVE STRUCTURE

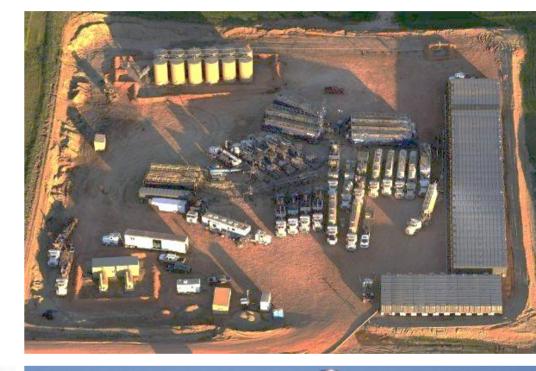


ADMINISTRATIVE STRUCTURE

Riparian VS. Prior Appropriation Water Right Doctrines

Water Appropriation

- 368,000 Acre-Feet Used Per Year
 - 120 Billion Gallons
- Bakken Impact
 - 20-30 Million Gallons of Water Per Day for Next 20-30 Years







ADMINISTRATIVE STRUCTURE

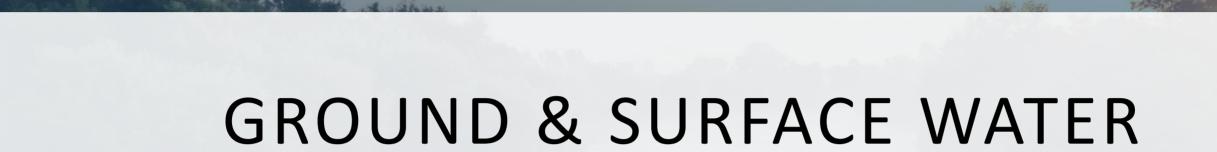
Rural Water Systems Administer & Distribute Appropriated Waters

Connection & Membership





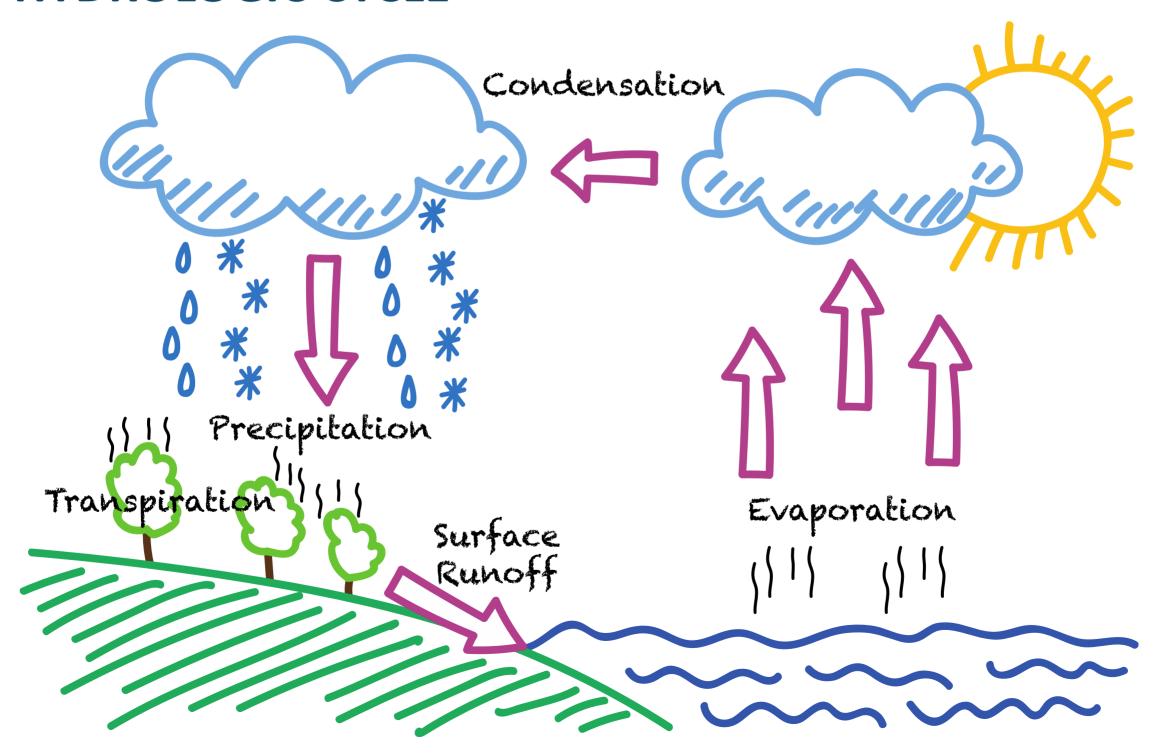




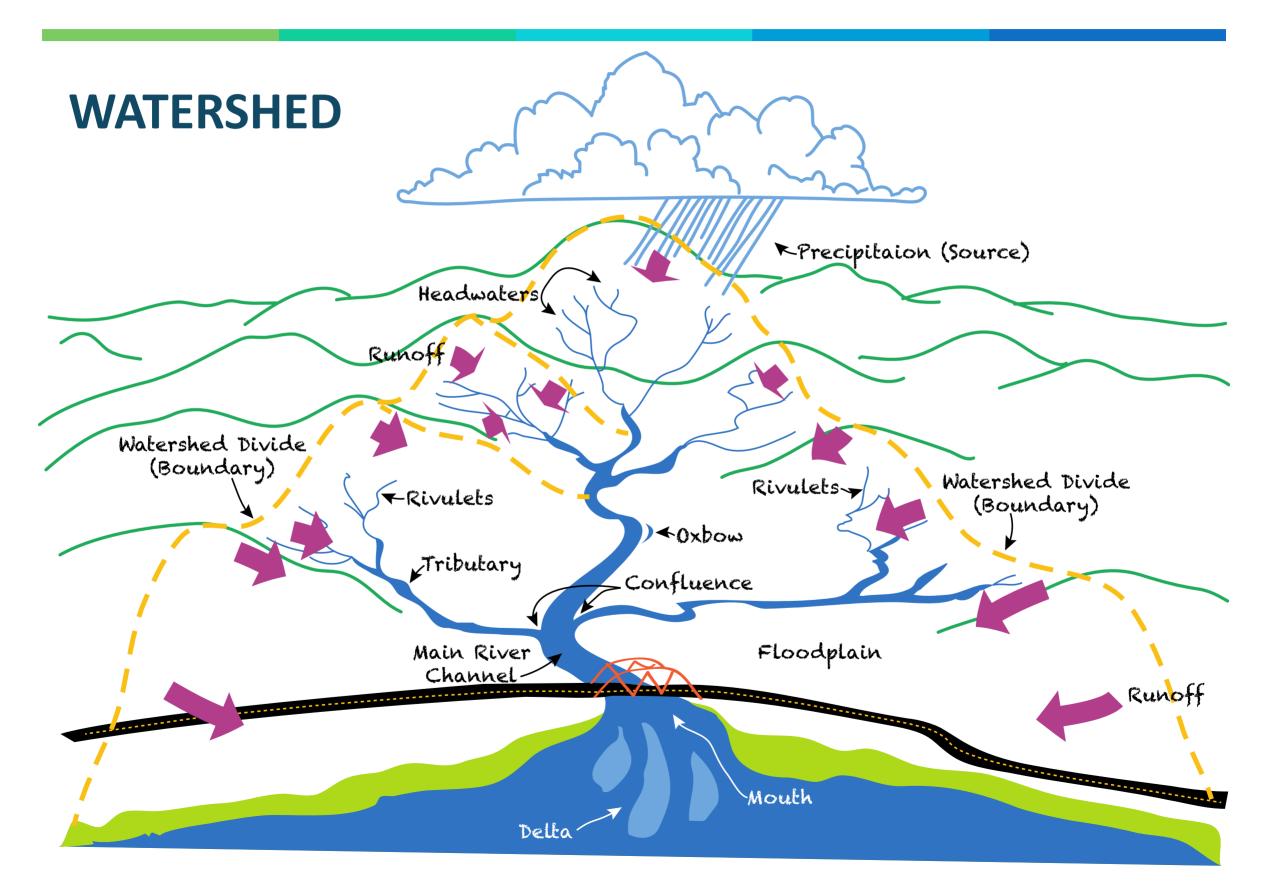


GROUND & SURFACE WATER

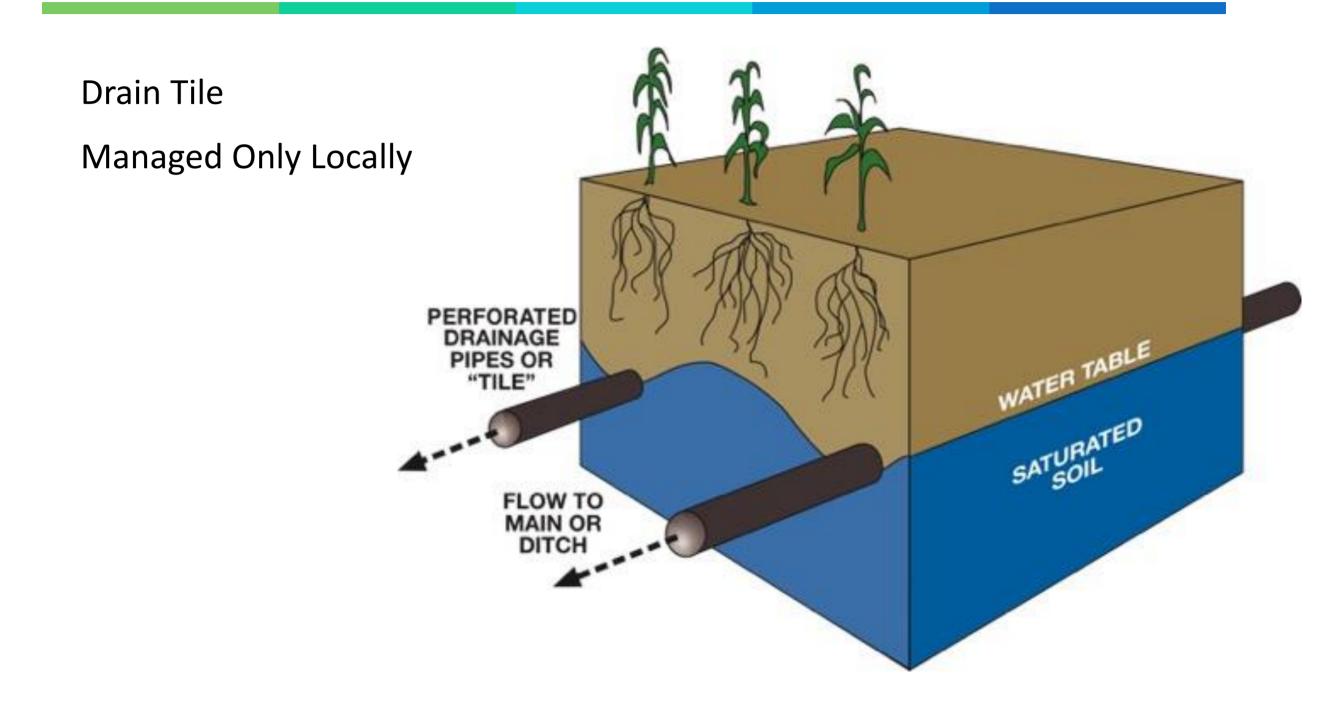
HYDROLOGIC CYCLE



GROUND & SURFACE WATER



GROUND WATER MANAGEMENT



SURFACE WATER MANAGEMENT

Point & Non-Point Sources

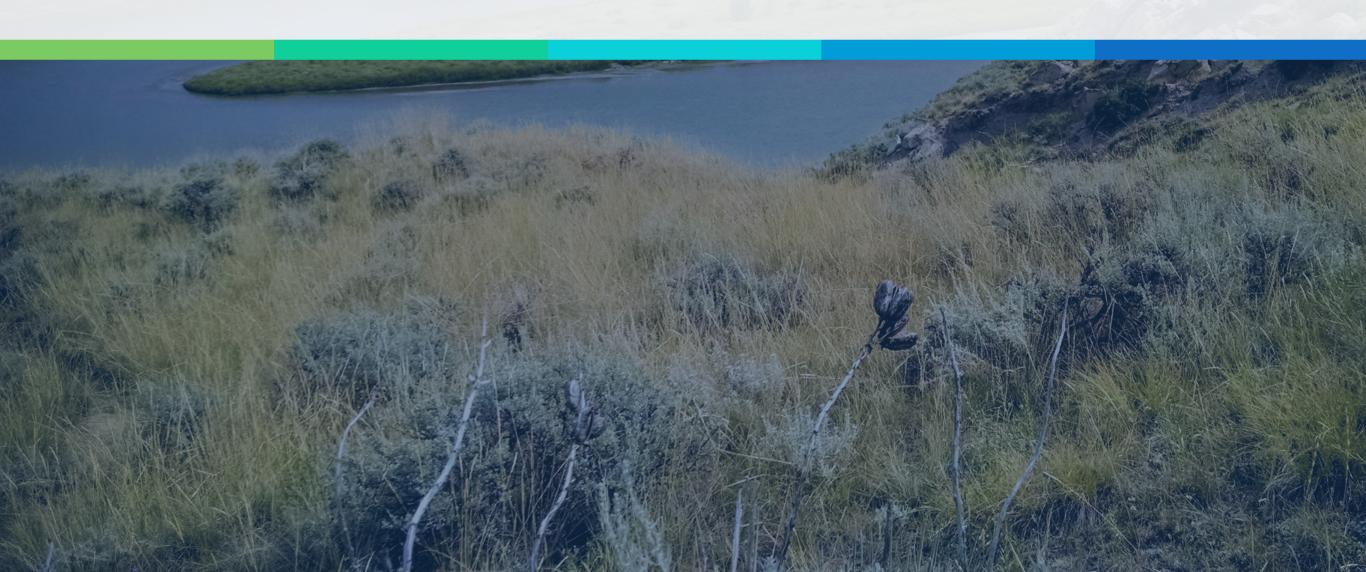
ANY Pollution Creates
Problems (algal blooms)
For Future Water Use



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From section 502(14) of Clean Water Act: The term "point source" means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include agricultural storm water discharges and return flows from irrigated agriculture.







Garrison Dam

- Flood Control & Water Supply
- 600 Square Mile Reservoir



Dakota Access Pipeline

- Moves ND Bakken Crude to Market
- 95 Feet Below Lake Oahe



Fargo Flood Control

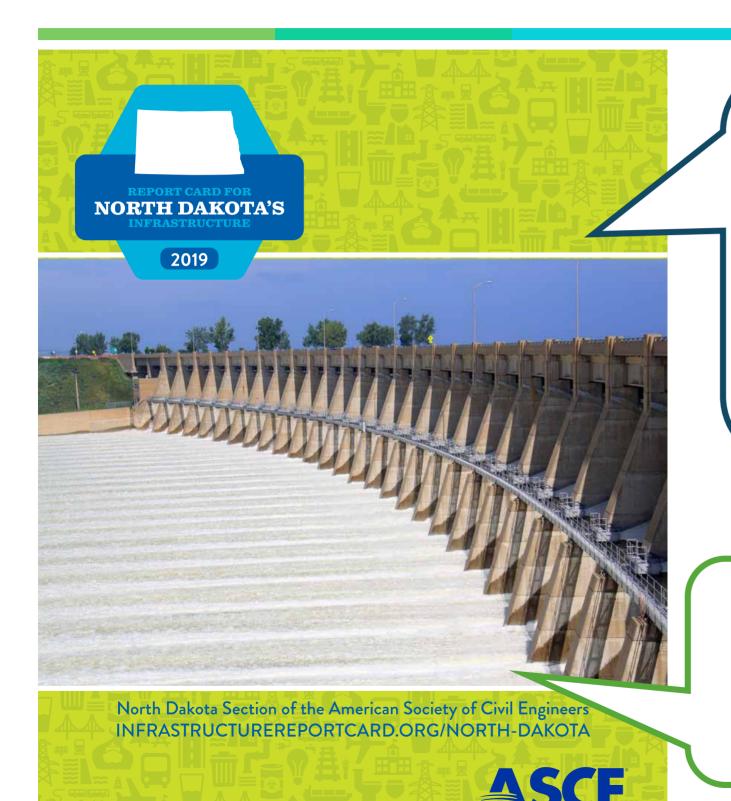
- \$2.75 Billion to Construct
- Provides Flood Protection For 1 Out of Every 3 North Dakotans





2011 Garrison Dam Release

2011 City Of Minot Flood



The North Dakota Drinking Water State Revolving Fund(DWSRF) Intended Use Plan indicated that in 2018, there were approximately \$594 million worth of DWSRF — eligible infrastructure projects state-wide. Approximately \$125 million will be available from the 2017-2019 biennium for water projects from the State Water Commission, while the DWSRF is funding approximately \$46 million in projects.

Drinking Water

Dams

Seventy-three percent of the High Hazard dams in the National Inventory of Dams have a condition assessment rating and half of those are considered deficient and do not meet accepted safety standards in some way.

