





City of Williston

Williams Rural Water District

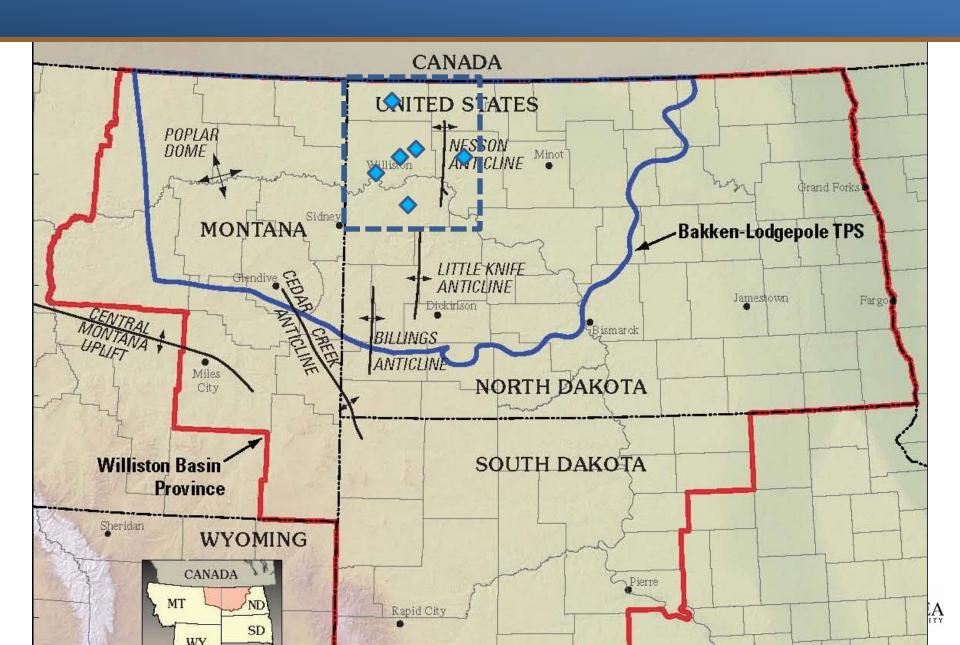
McKenzie Water Resources District

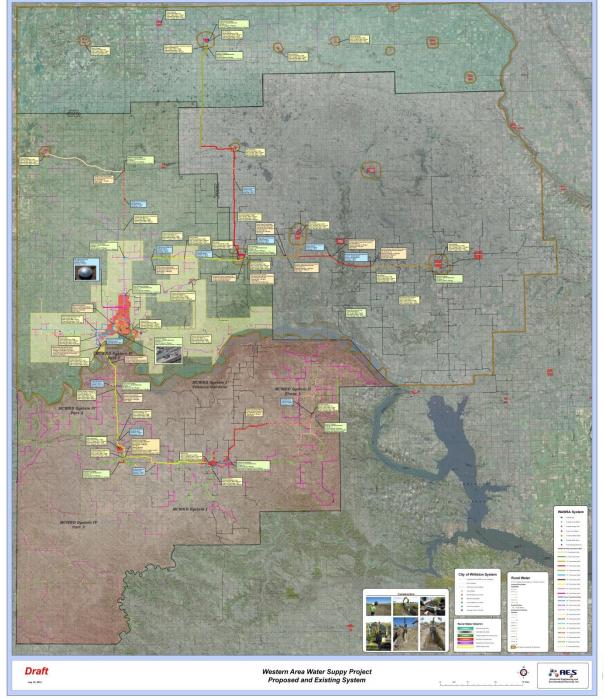
R&T Water Supply Commerce Authority

BDW Rural Water



Bakken/Three-Forks Formation Extent





Project Background: The Need for this Project

- Increasing Water Demand/Growing Population
- Poor Water Quality / Insufficient Quantity
- Maximum Sustainable Yield Capacity of Aquifers
- Increasing Water Demand/Growing Population Moratorium on new Users
- Expansive Growth / Pressure & Volume Needs



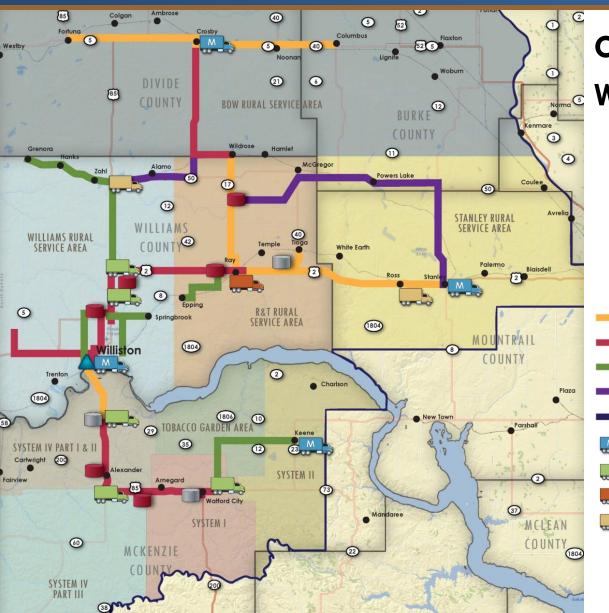


ND State Legislative Action

- Created Western Area Water Supply Authority (WAWSA)
- Funded \$110M in 2011-2013 biennium (\$110 M loans)
- Funded \$119M in 2013-2015
 biennium (\$80M loans/\$39M grant)
- Requested funding of \$120M in 2015-2017 biennium (\$ loan?/\$ grant?)



Communities and Region Served



Communities such as
Williston, Watford City,
Ray, Tioga, Stanley,
Noonan, Columbus,
Fortuna, Wildrose,
Crosby, and others
benefit from WAWSP

Existing Transmission Lines

Existing Reservo

2011/2012 Improvements

2011/2012 Reservoir

2013/2014 Improvements

2013/2014 Reservoir

2015/2016 & Beyond Improvements WTP/Intake Expansion/ Improvements

WAWSA Project Boundary Line

Existing Member Depots in Operation

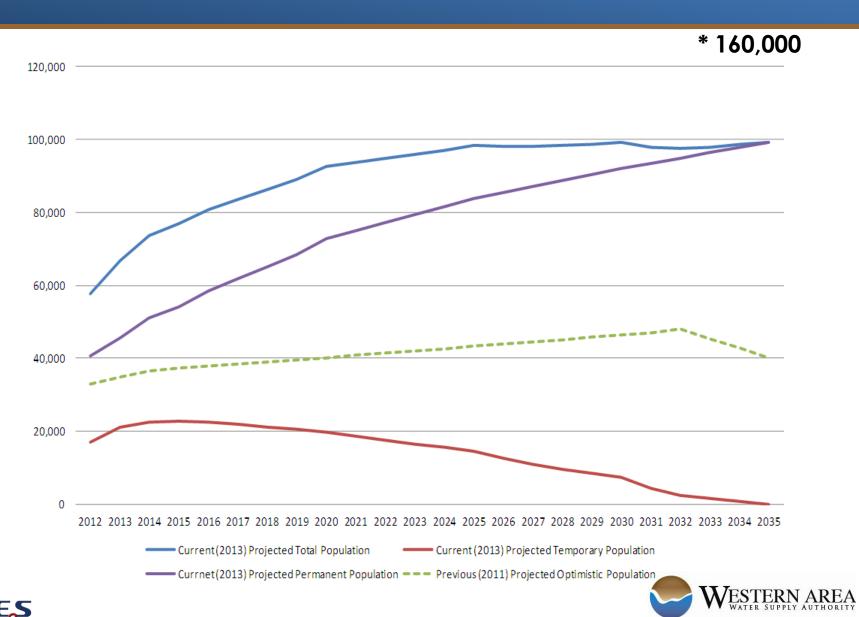
WAWSA Depots in Operation

WAWSA Depots Operational by Summer 2013

Future WAWSA Depots

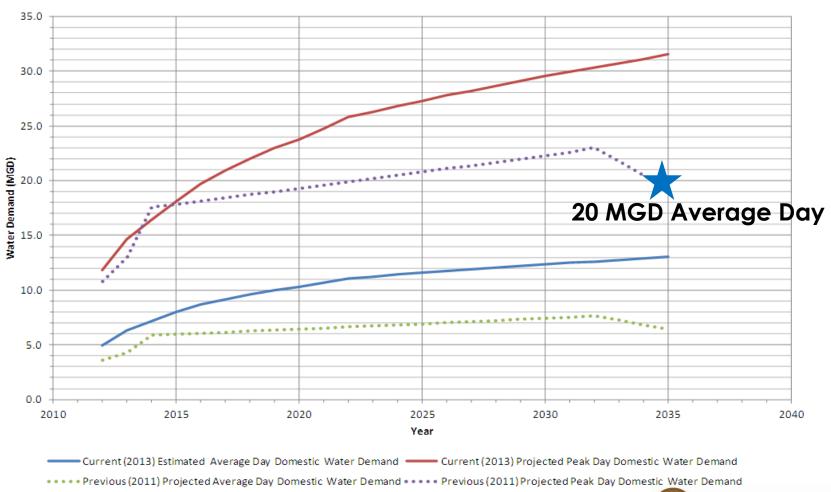


Population Growth WAWSA Service Area



Projected Water Demands

Western Area Water Supply Project * 50 MGD Peak Day
Projected Average and Peak Day Water Demands

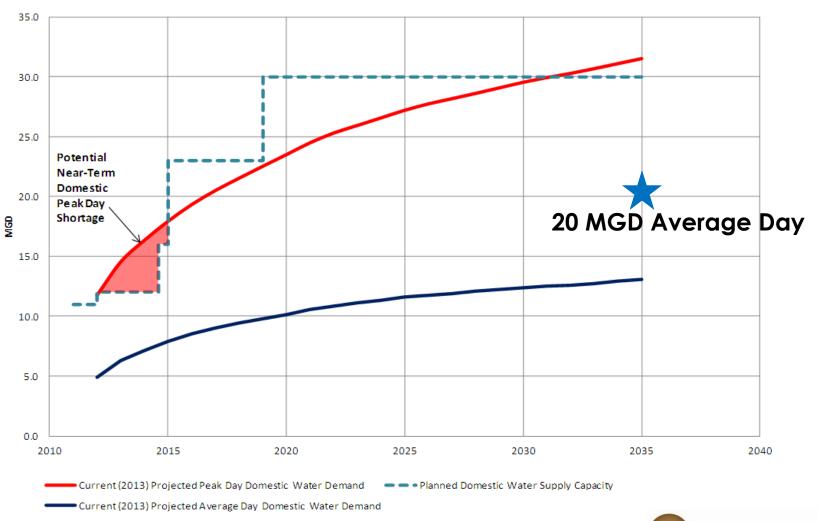






Water Supply Needs

* 50 MGD Peak Day







WAWSP By the Numbers

2010 Numbers:

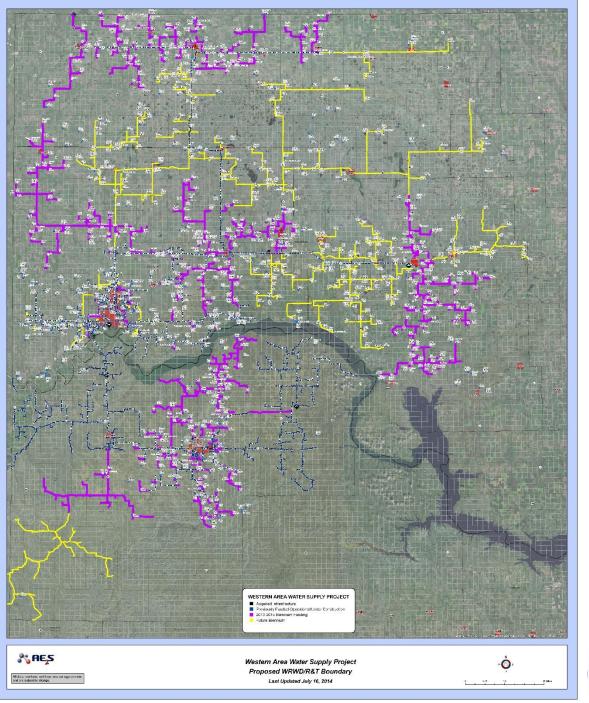
Original plan accounted for 400 users requests

2013 Numbers:

- 1,200 rural water user hook-up requests
- 10,815 residential lot service requests
- 612 commercial lot service requests
- 4,450 crew camp/RV park service requests

Total of <u>17,077</u> user/service requests







Challenges

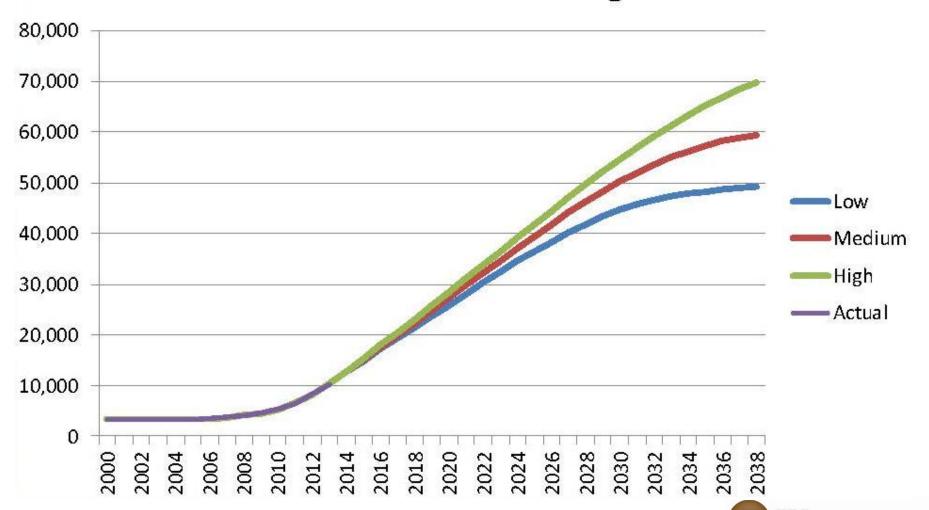


WAWS Payback



Total Producing Wells

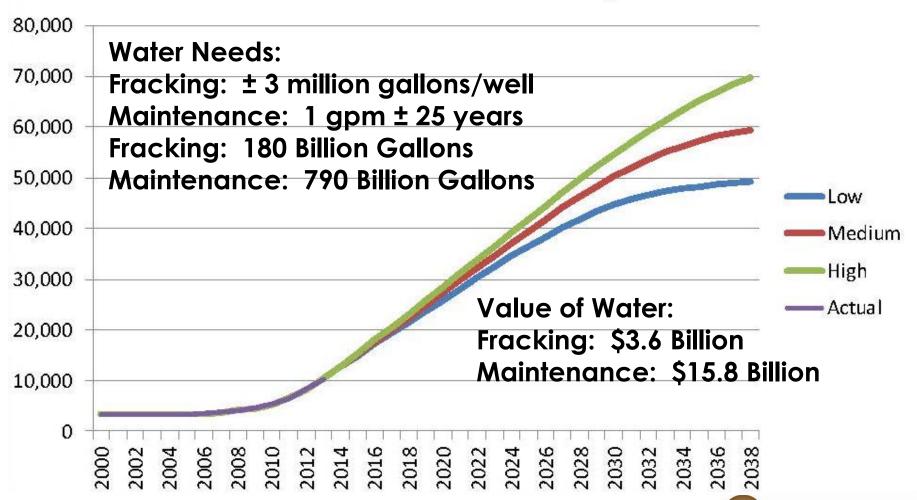
North Dakota Producing Wells





Total Producing Wells

North Dakota Producing Wells







WAWSP By the Numbers

2012 Numbers (from ND State Water Commission):

Statewide Oil & Gas Demand: 5.4 Billion Gallons

2013 Numbers:

WAWSA Sales to Date: 900 Million Gallons

WAWSA Projected Sales: 1.2 Billion Gallons

2014 Projection:

WAWSA Sales Projected: 1.4 Billion Gallons

WAWSA PERMIT: 13.86 Billion Gallons/Year





WAWS Total Industrial Sales

• 2012: \$9,709,708

• 2013: \$24,043,600

• 2014: \$16,561,094 (6 months)

Total \$50,314,402





2013: \$2,118,572

• 2014: \$7,696,187 (6 months)

Total \$9,814,759





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www.WAWSP.com

