

# **Water Topics Overview Committee**

**Jaret Wirtz  
Executive Director**

November 5, 2015

# Founding Member Entities



**City of Williston**

**Williams Rural Water  
District**

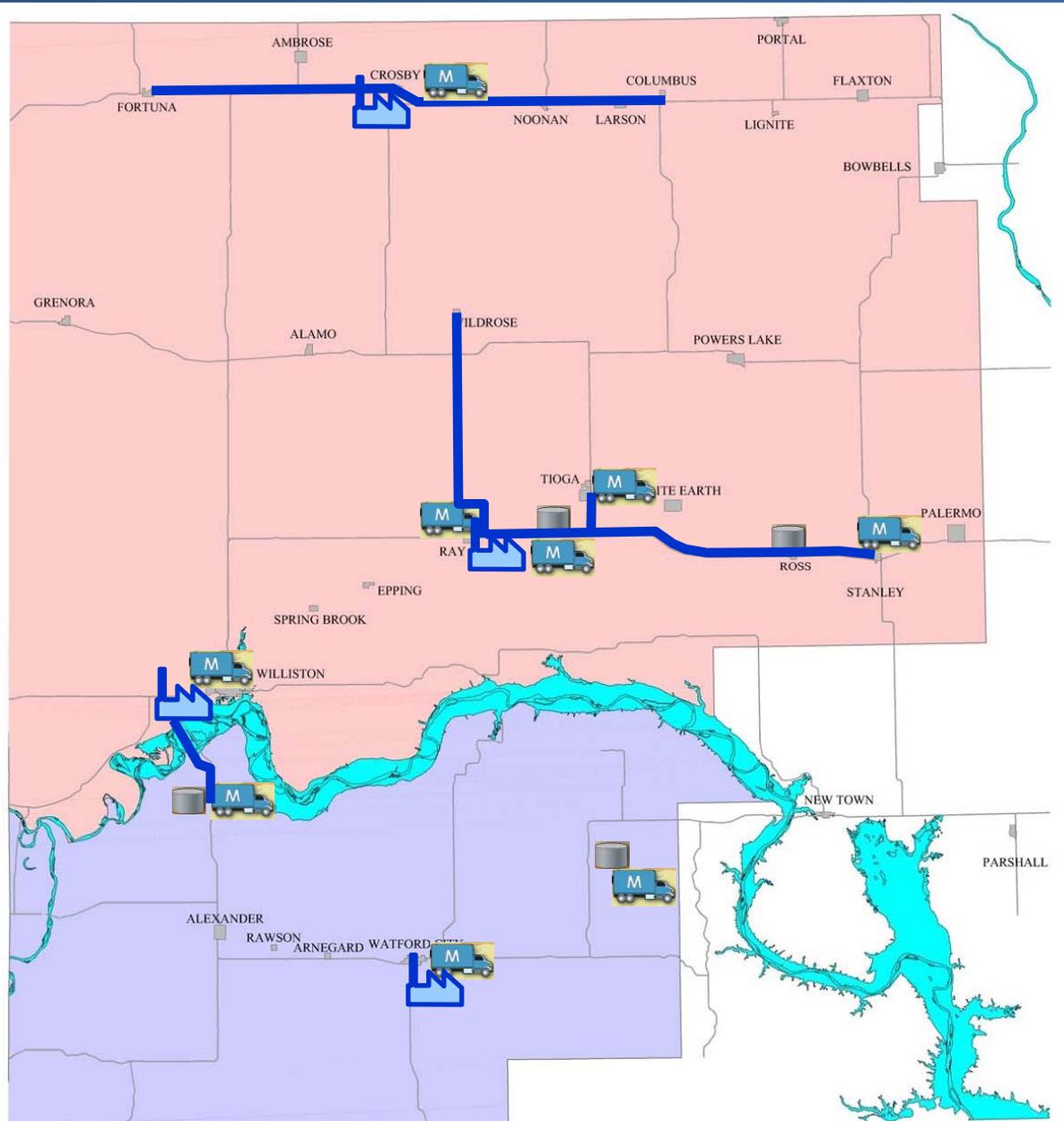
**McKenzie County  
Water Resource  
District**

**R&T Water Supply  
Commerce Authority**

**BDW Rural Water  
Association\* Added  
Legislatively**



# Pre-WAWSA Member Existing Infrastructure



Water Plant



Fill Depot



Reservoir/Pump Station



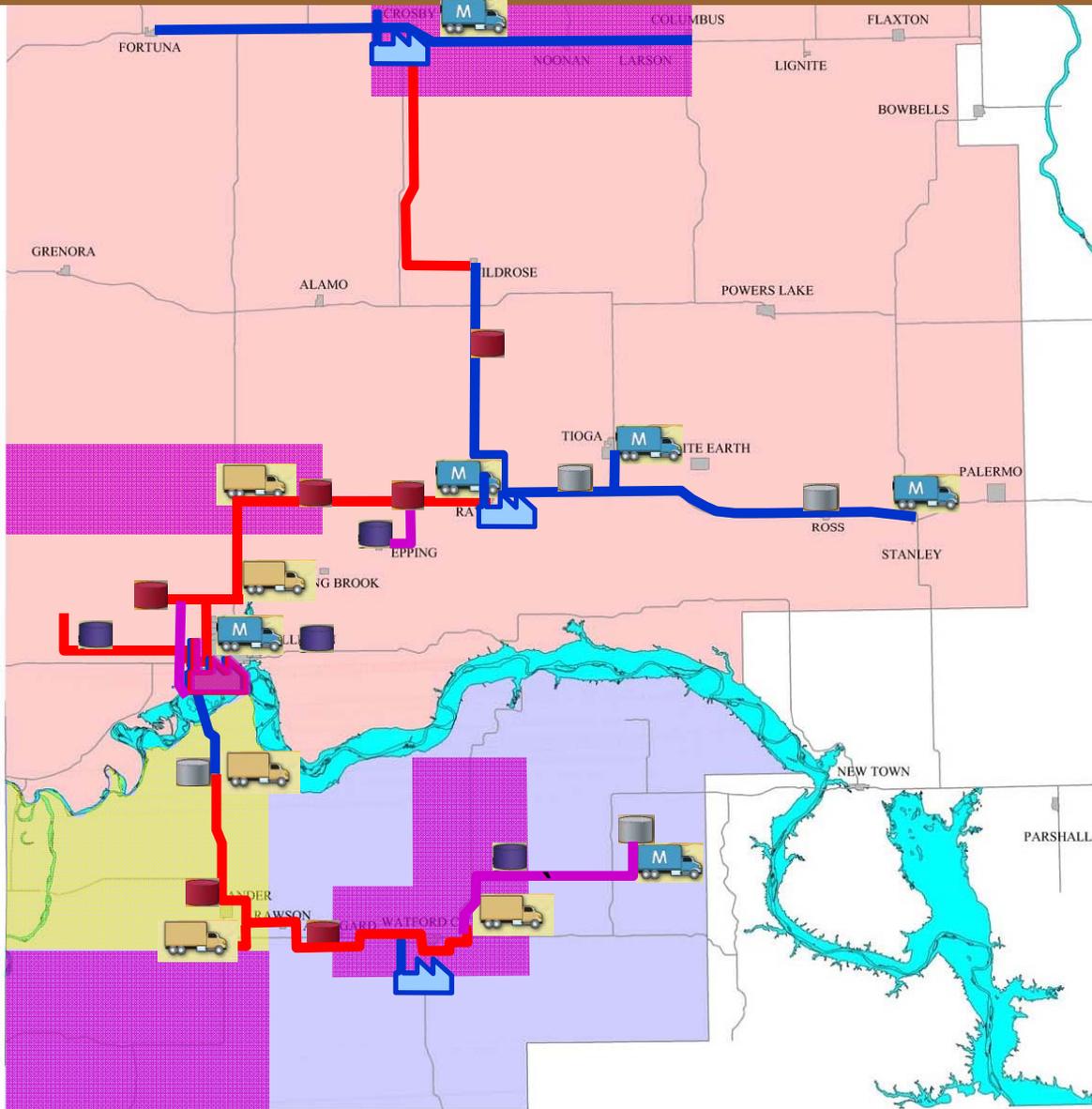
Transmission Main



**WESTERN AREA**  
WATER SUPPLY AUTHORITY

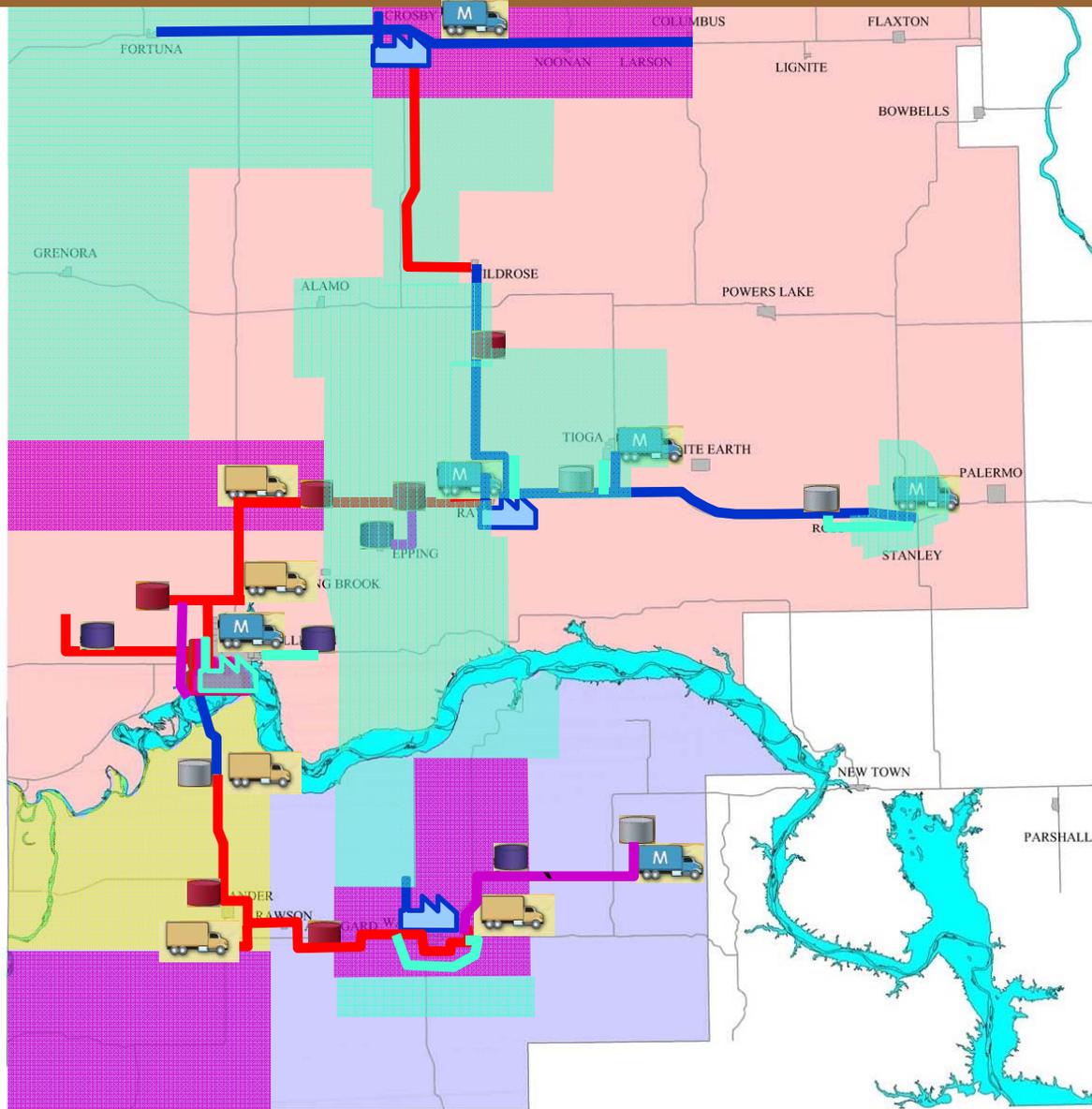


# WAWSA 2013-2015 Improvements (Phase III)



-  Water Plant
-  Fill Depot
-  Reservoir/Pump Station
-  Transmission Main
-  Rural Water Service Areas

# WAWSA 2015-2017 Improvements (Phase IV)



Water Plant



Fill Depot



Reservoir/Pump Station



Transmission Main



Rural Water Service Areas

670 Miles of Pipe Constructed

505 Miles of Pipe Under Design/Construction

# Capital Accounting

	September 2015
Approved Contracted Funding	\$309,000,000
Funds Contracted To Date	\$244,817,144
Funds Remaining to be Contracted	\$64,182,856
Expenditures To Date	\$220,244,332
Remaining Contracted Funds	\$24,812,572
Total Project Best Estimate to Date	\$479,528,745

# Meeting the Need

- 800 Miles of Pipe Constructed
- 1,200 Miles Left to Install
- Numerous Pump Stations, Reservoirs, and Plant Upgrades Will be Needed



# Additional Comments



Easements

Land Reclamation

Bid Prices

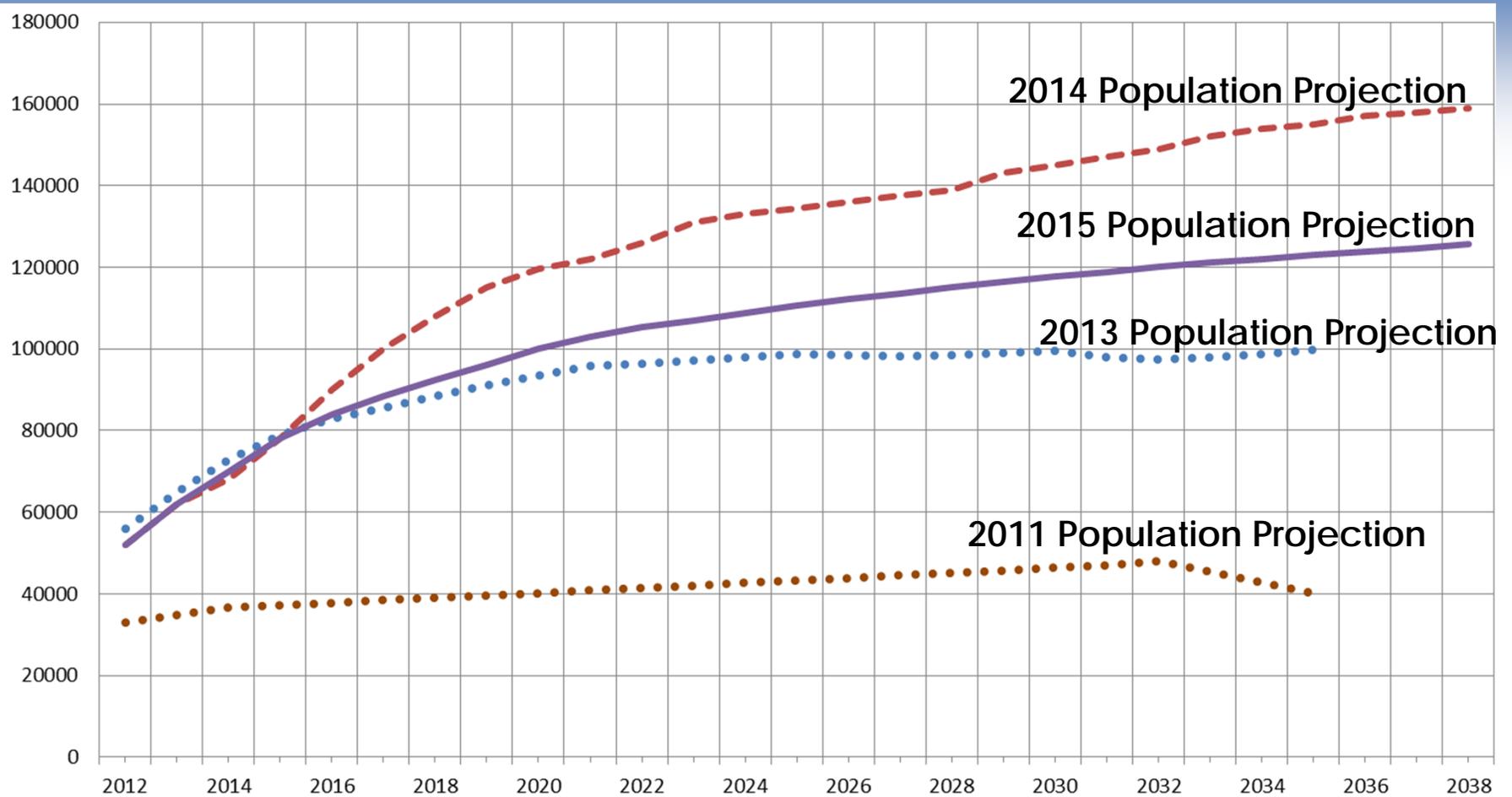
# What Has Changed?

	2011	2012	2014	2015
<b>Peak Population</b>	<b>48,000</b>	<b>100,000</b>	<b>160,000</b>	<b>125,000*</b>
<b>Rural Users (non-municipal)</b>	<b>400</b>	<b>17,000+</b>		<b>14,000*</b>
<b>Estimated Project Cost</b>	<b>\$150 MM</b>	<b>\$350 MM</b>	<b>\$479 MM</b>	<b>\$479 MM**</b>
<b>New Wells To Be Drilled</b>	<b>20,000</b>	<b>50,000</b>	<b>70,000</b>	<b>58,000</b>

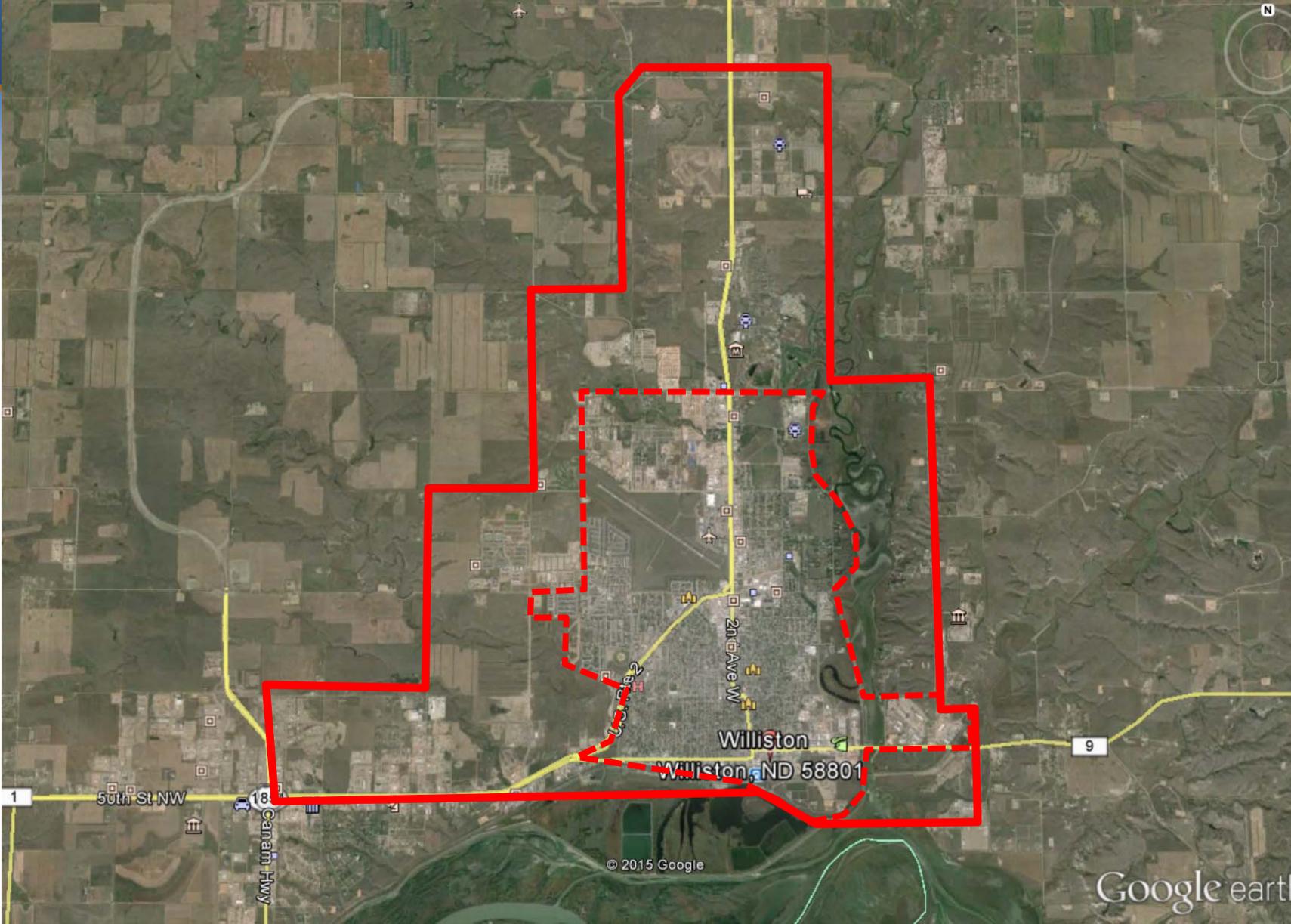
\*Estimated based on reduction in number of wells projected to be drilled – NDSU completing population projection update.

\*\*Impact of population reduction on Project Cost estimate, if any, is to be determined.

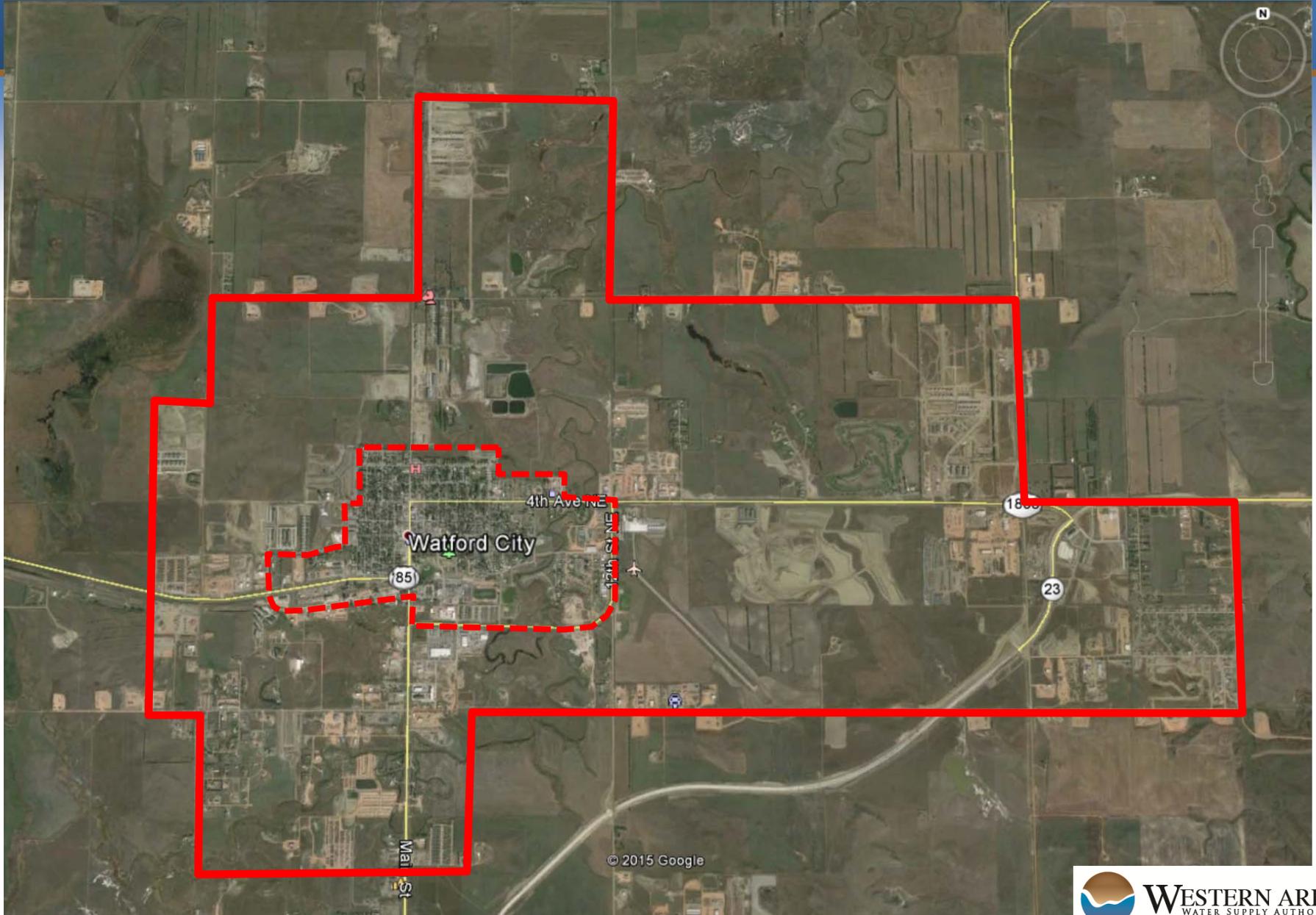
# 2015 Population Projections



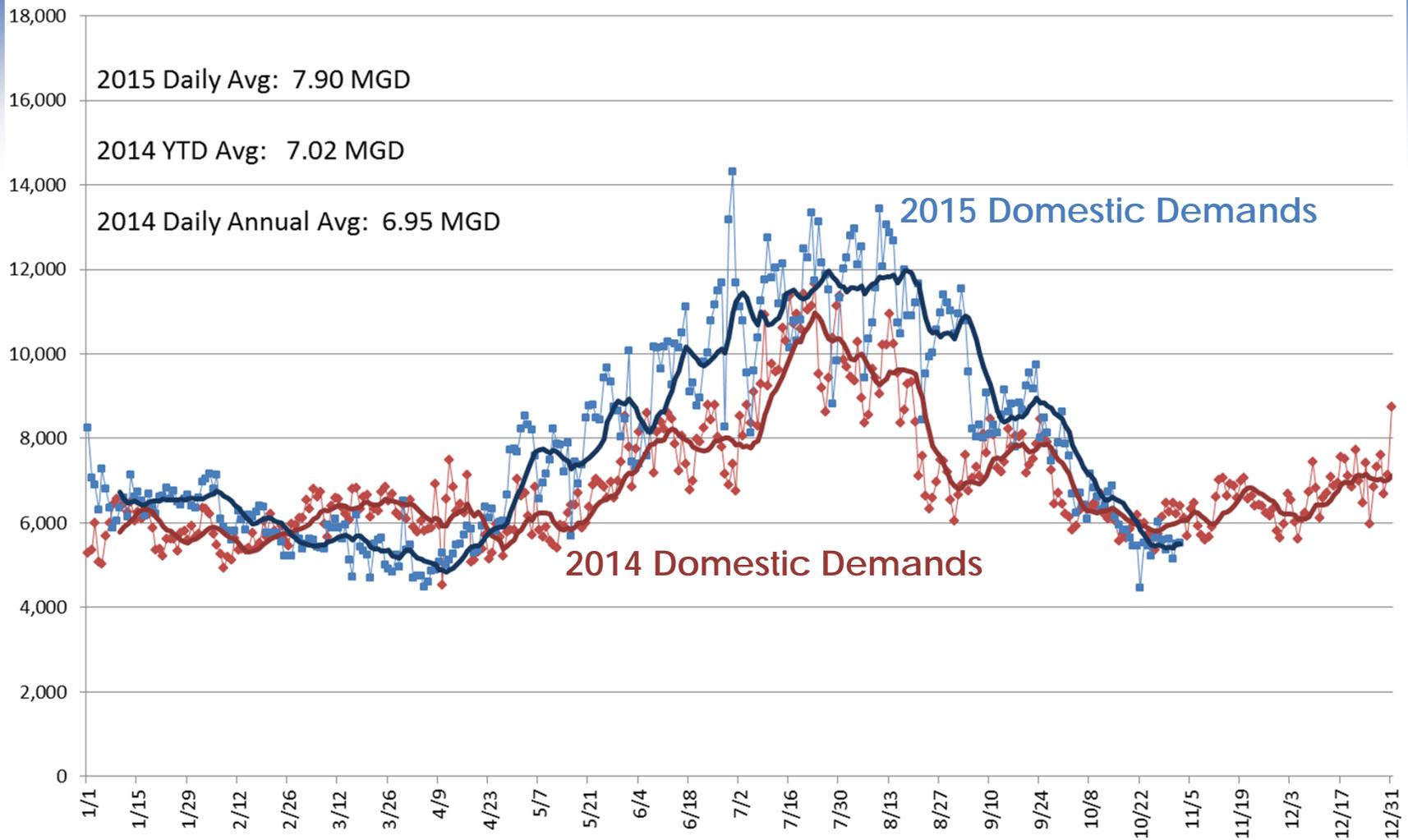
# Williston Growth



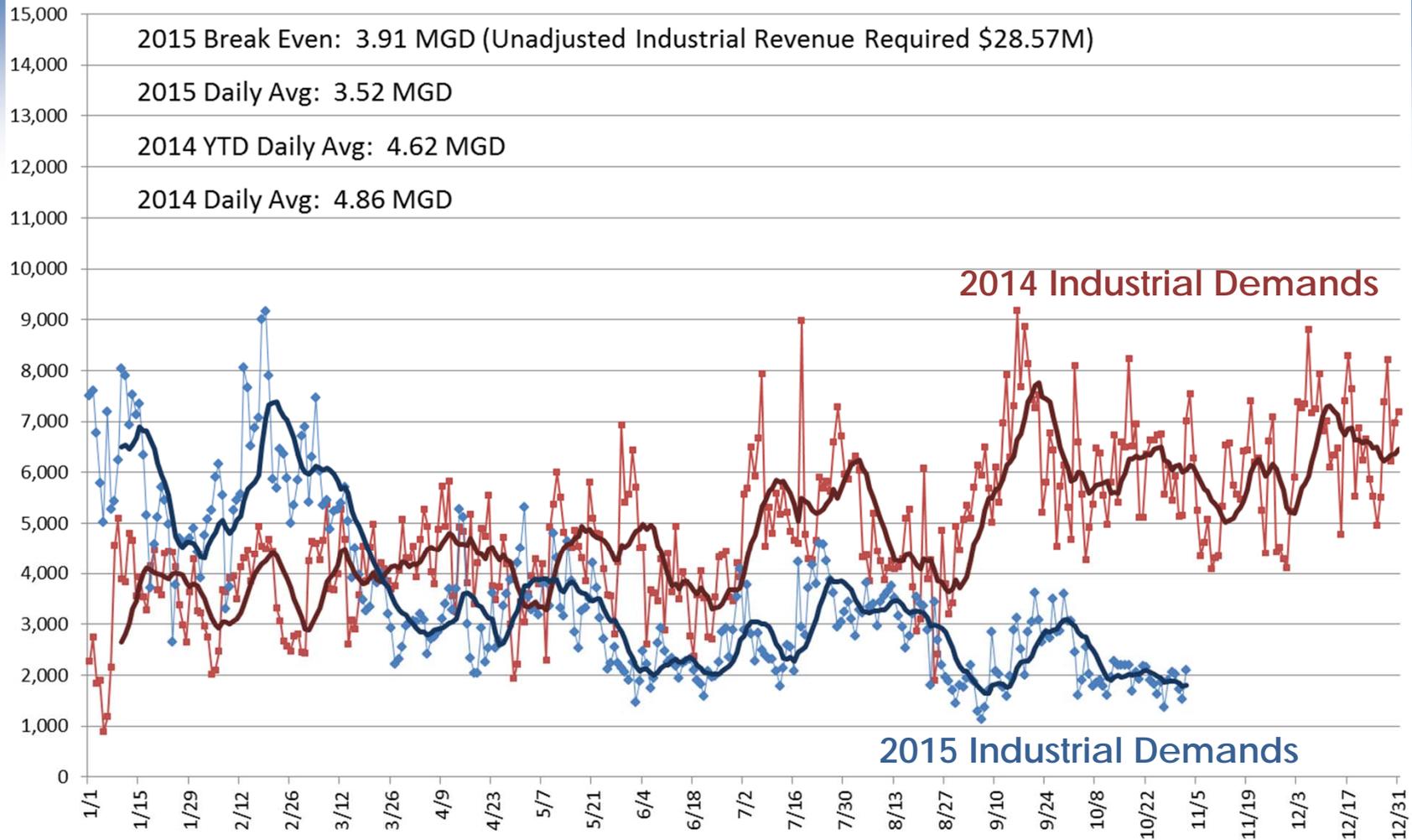
# Watford City Growth



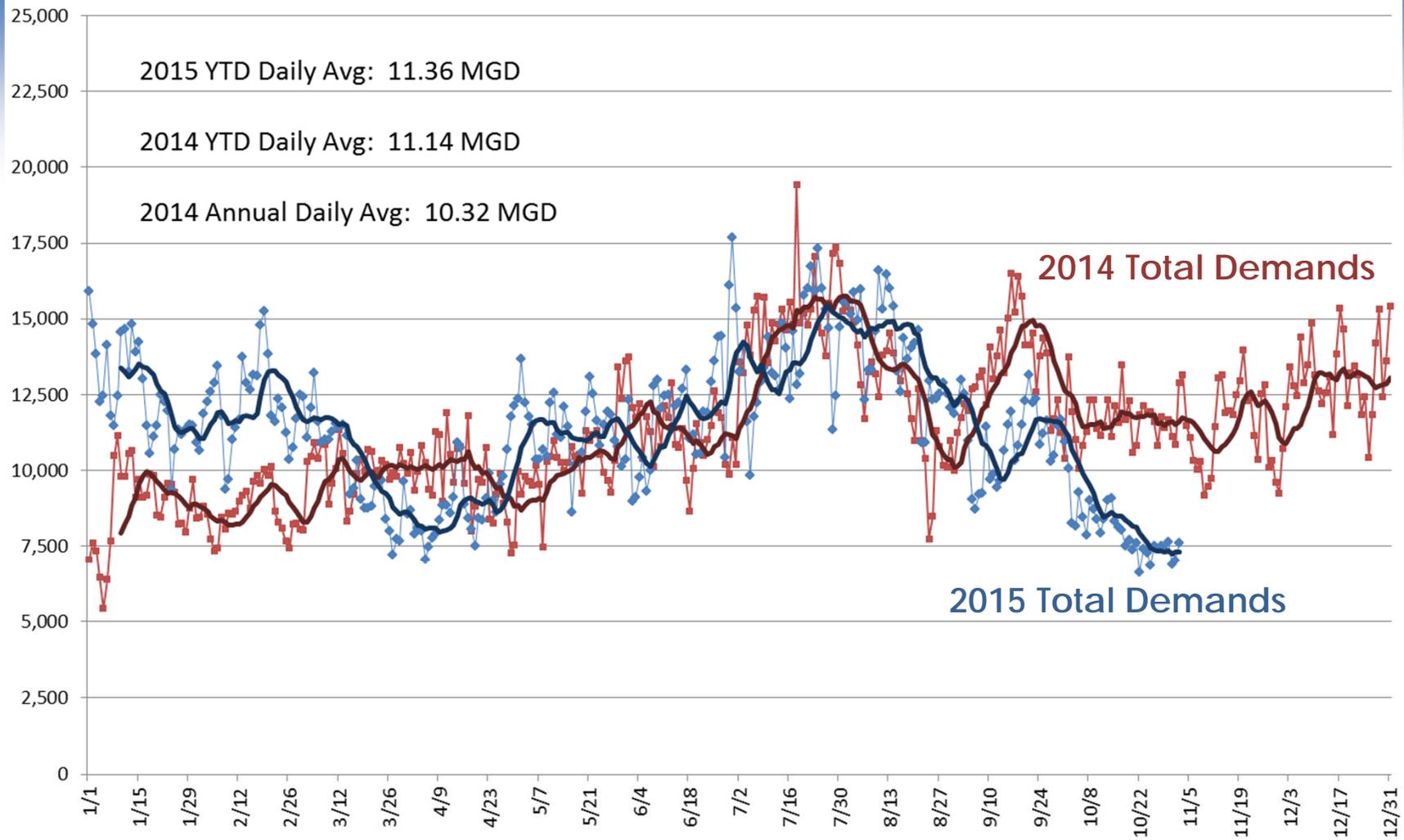
# Domestic Water Demand Report



# Industrial Water Demand Report



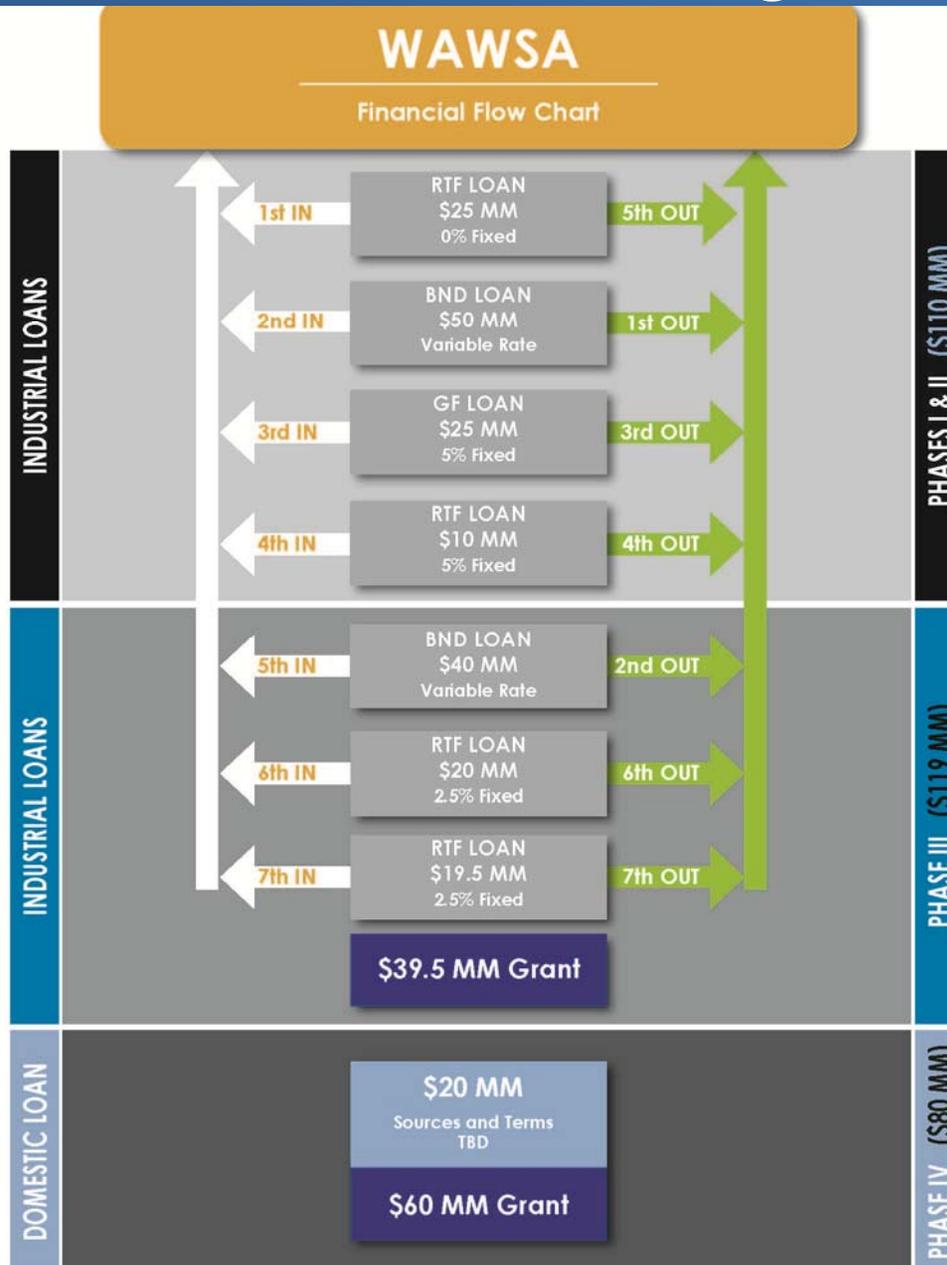
# Total Water Demand Report



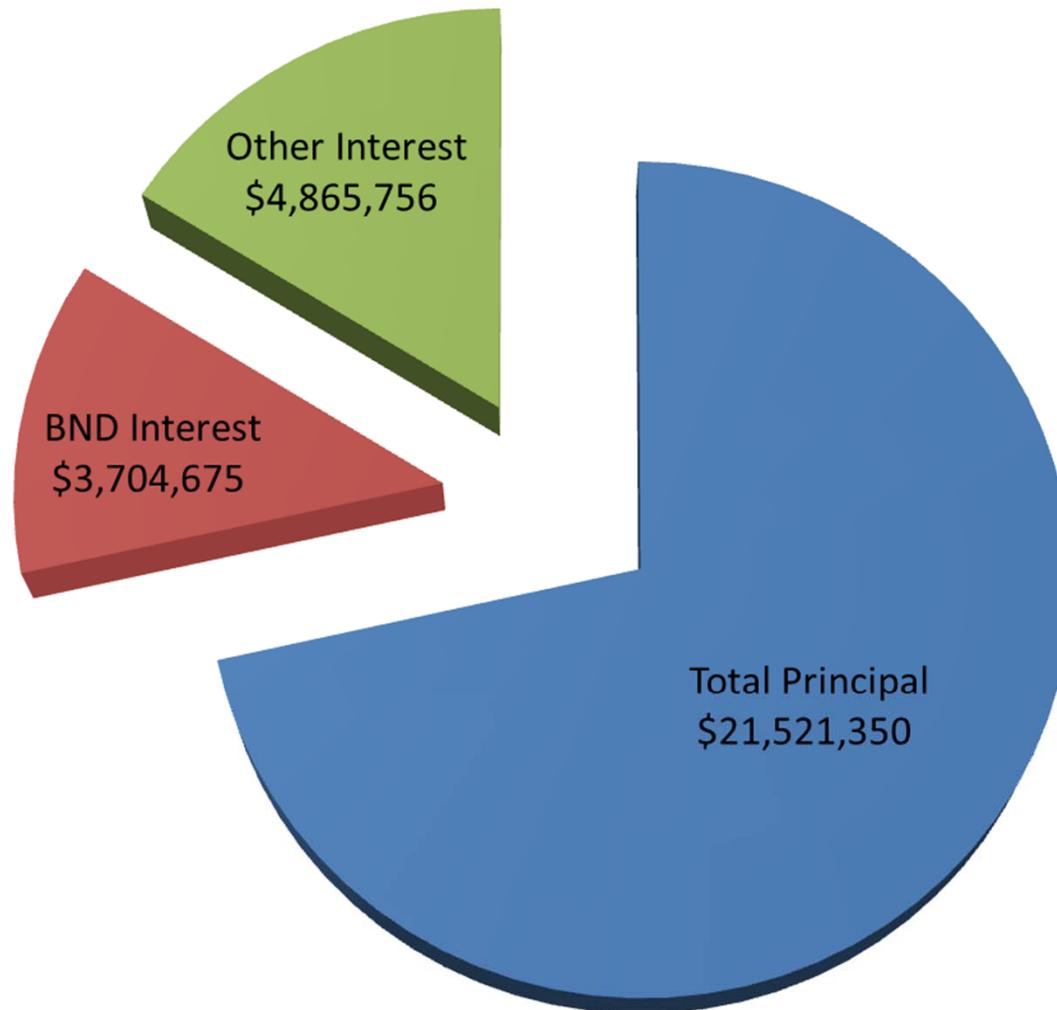
# WAWSA Interest & Principal Payments

Loan	Source	Amount	Rate	Interest	Principal	Balance
Loan #1	RTF	\$25M	0.00%	\$0	\$0	\$25,000,000
Loan #2	BND	\$50M	2.00%	\$2,678,304	\$20,808,200	\$29,191,800*
Loan #3	NDGF	\$25M	5% (F)	\$3,264,330	\$0	\$25,000,000
Loan #4	RTF	\$10M	5% (F)	\$1,055,571	\$0	\$10,000,000
Loan #5	BND	\$40M	1.75% (F)	\$1,026,371	\$713,150	\$39,286,850
Loan #6	RTF	\$20M	2.5% (F)	\$439,572	\$0	\$20,000,000
Loan #7	RTF	\$19.5M	2.5% (F)	\$106,283		\$17,296,940
Totals		\$189.5M		\$8,570,431	\$21,521,350	\$165,775,590

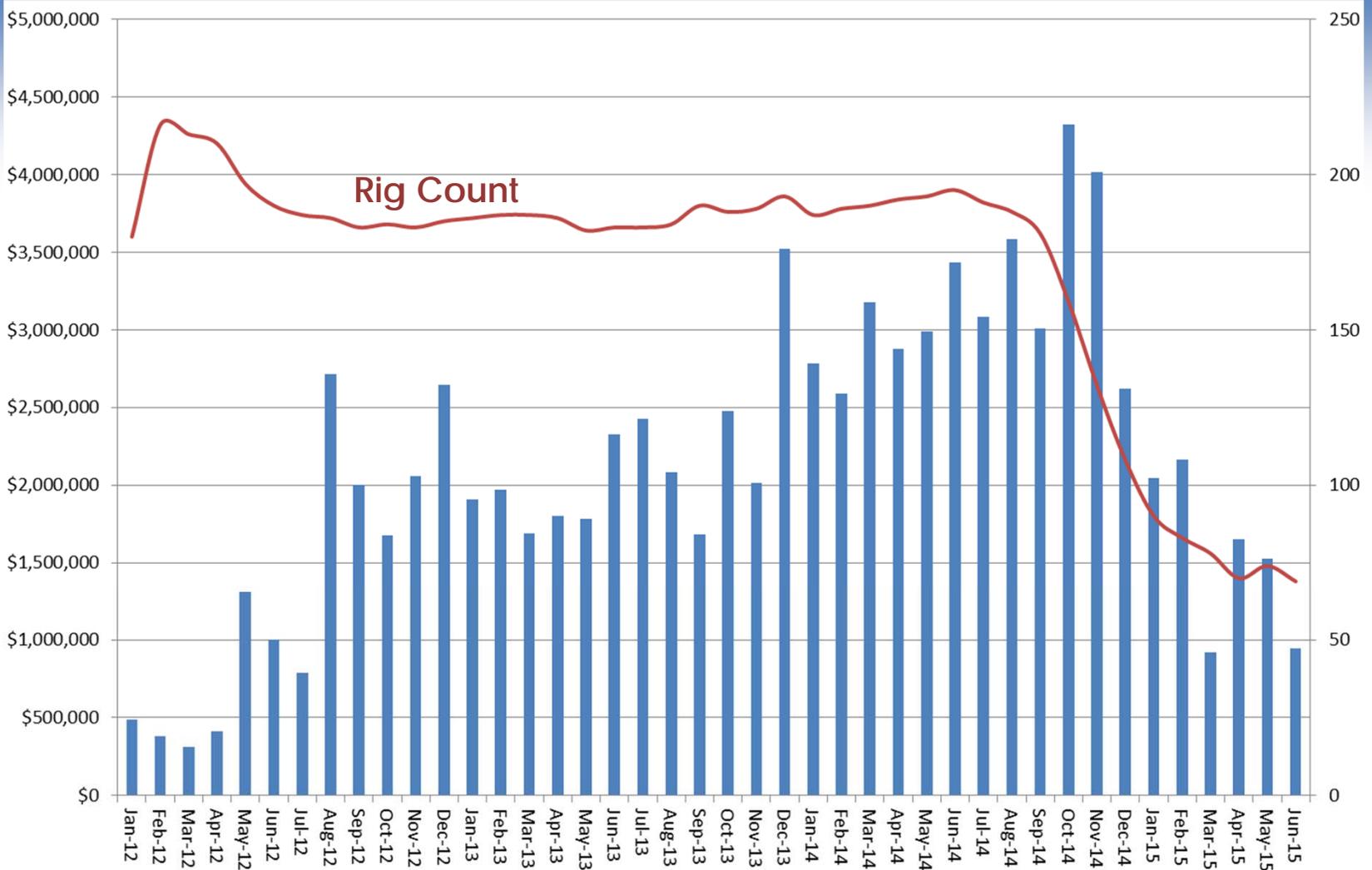
# WAWSA Loan Payback



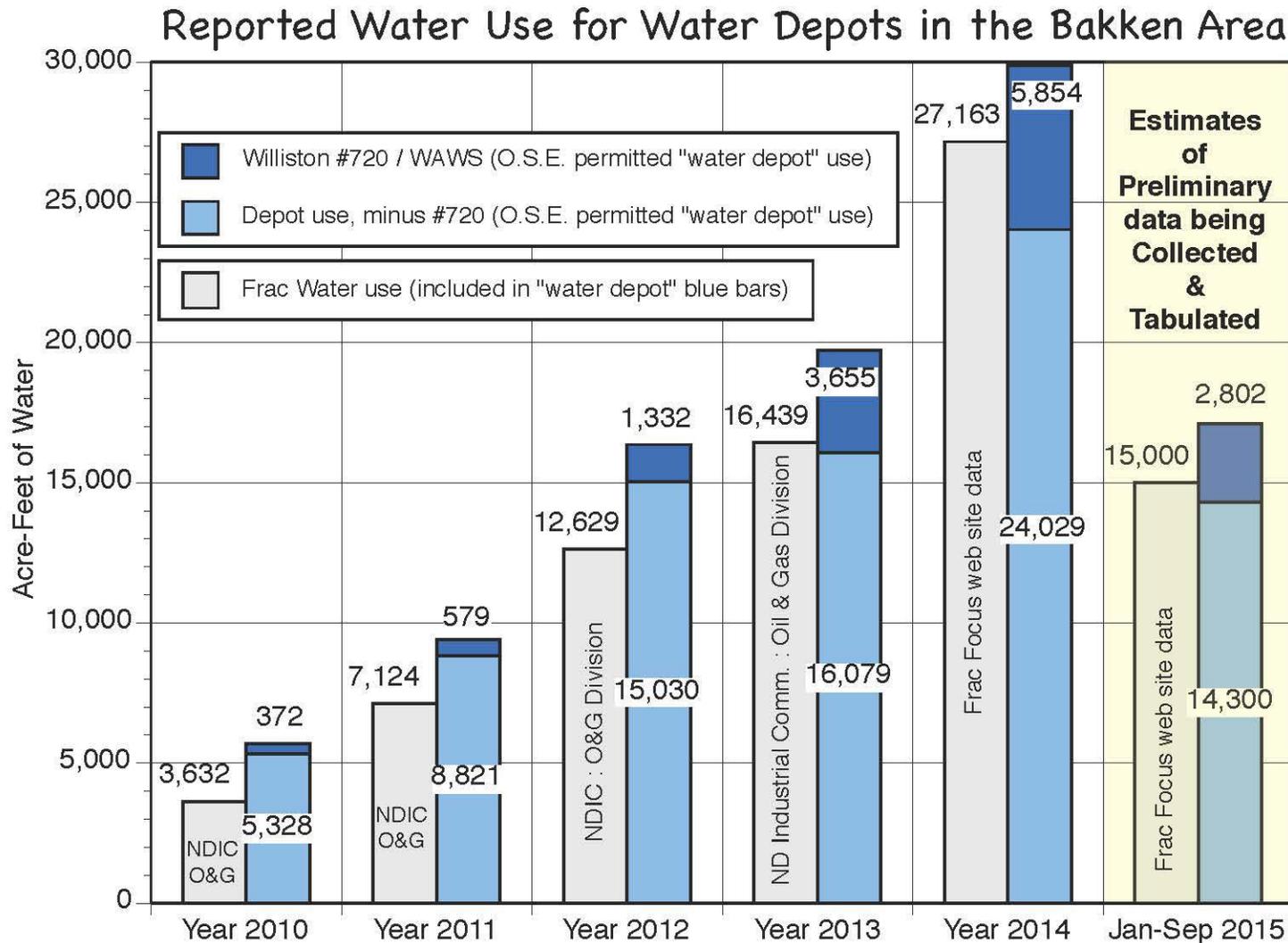
# WAWSA Principal and Interest



# Gross Monthly Industrial Revenue



# Reported Industrial Water Usage



Sources: North Dakota Office of the State Engineer (O.S.E.)  
 North Dakota Industrial Commission - Oil & Gas Division  
 Frac Focus web site (FracFocus.org)

# Reported Industrial Water Usage

Western North Dakota Industrial Water Supply Market Share				
Year	WAWSA		IWP/non-WAWSA	
	Volume	Market Share	Volume	Market Share
2012	1,332 ac-ft	8.0%	15,030 ac-ft	92.0%
2013	3,655 ac-ft	18.5%	16,079 ac-ft	81.5%
2014	5,854 ac-ft	19.6%	24,029 ac-ft	80.4%
2015 (thru Sept.)	2,803 ac-ft	16.4%	14,300 ac-ft (est)	83.6%

# Questions?



**WESTERN AREA**  
WATER SUPPLY AUTHORITY

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