



**NORTH
TEXAS
MUNICIPAL
WATER
DISTRICT**

Securing Your Water Future: The North Texas Municipal Water District Story

Association of Western State Engineers Annual Meeting

October 3, 2019

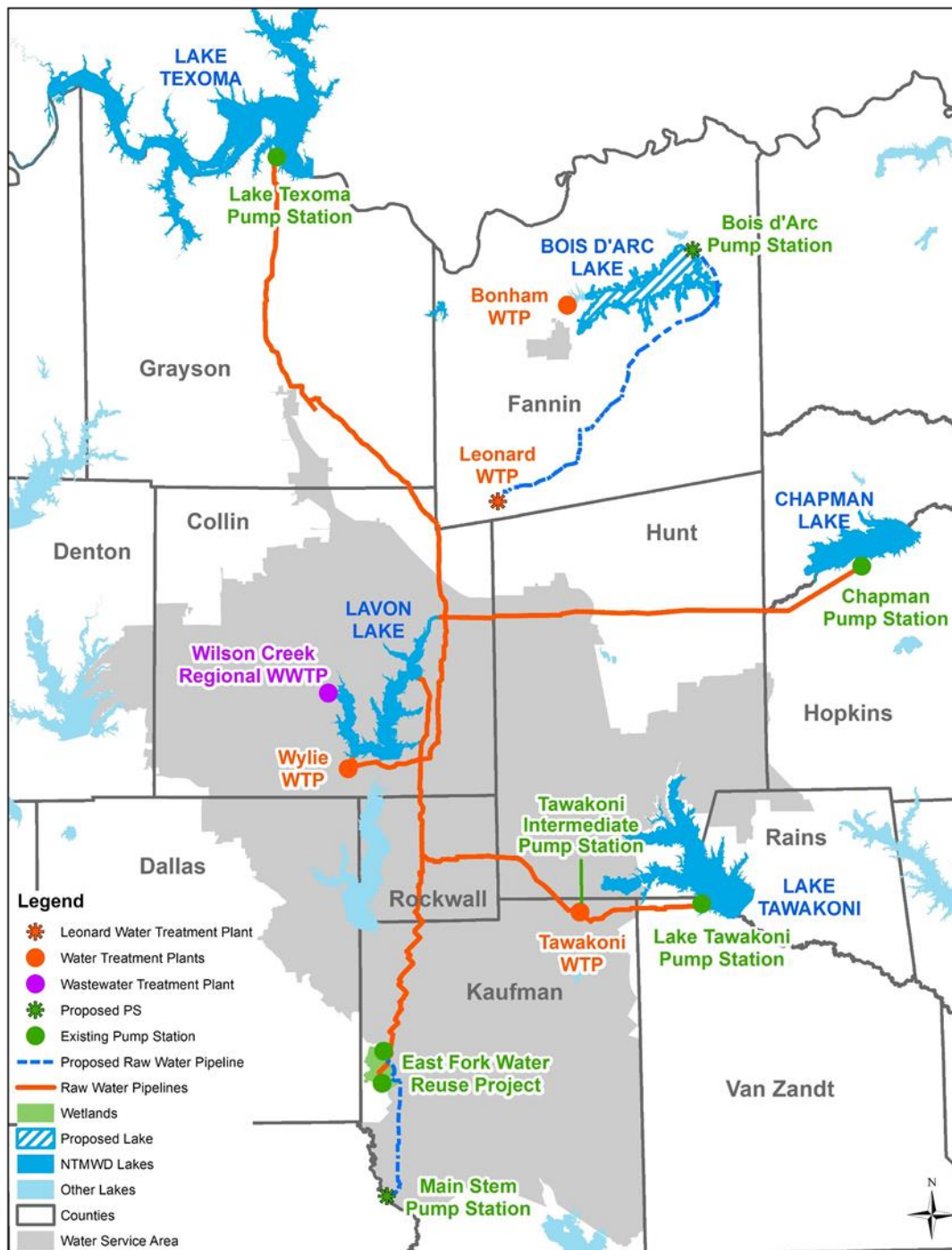
NTMWD Fast Facts

13 member cities

80 communities served

2,200 square mile service area

Takes more than 2 hours to drive across



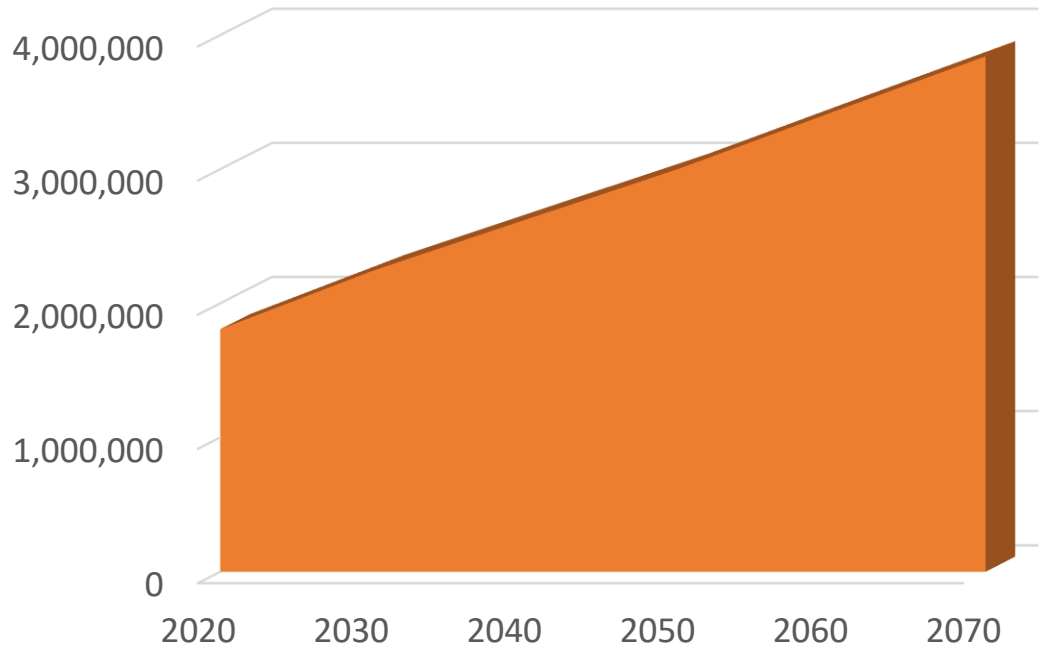
1.8 million

people served today

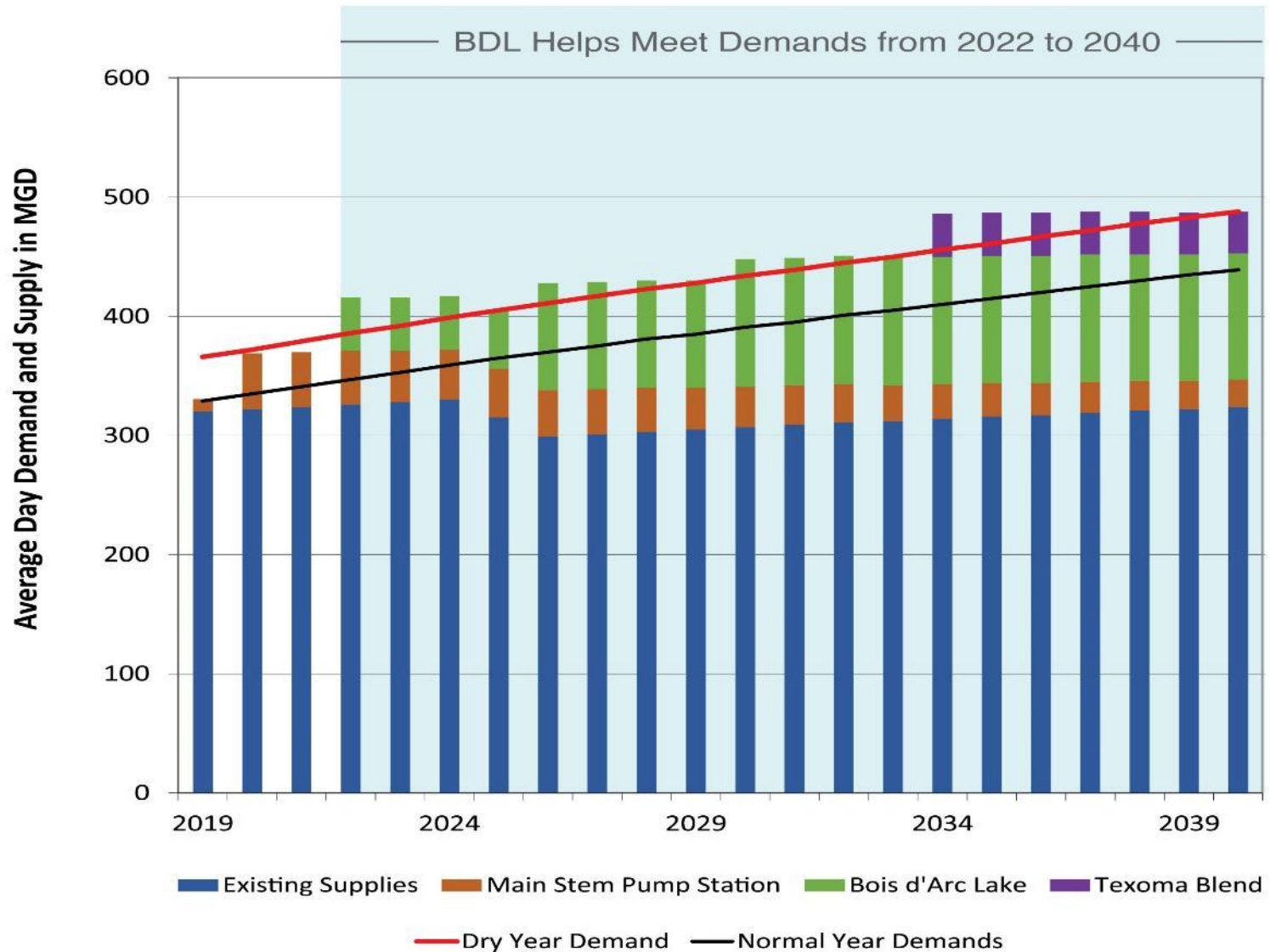
Population expected
to **more than
double** over the
next 50 years

3.8 million

people served by 2070

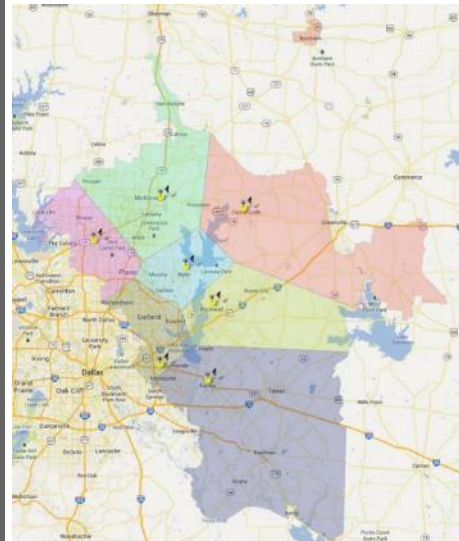
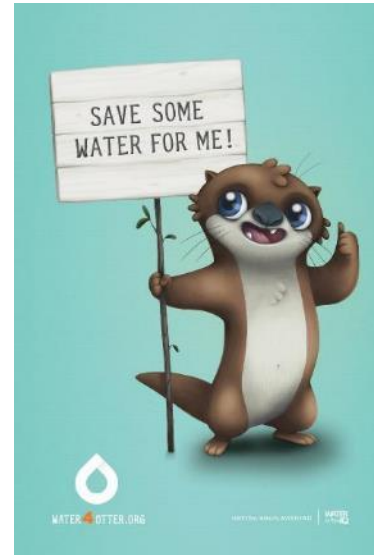


Water Demand and Supply Projections from 2019 to 2040



NTMWD Ongoing Conservation

- Award Winning Education Program (Water IQ)
- Year Round No More than Twice- Per-Week conservation measure





Main Stem Pump Station + East Fork Water Reuse Project

- Indirect reuse project
- Supplies approximately 91 MGD
- Blended with Lake Lavon Supplies

Bois d'Arc Lake



- First major reservoir to be built in Texas in nearly 30 years
- 16,641 acres, Firm Yield is 108 MGD
- 2003 – Feasibility Study
- 2006 – Permitting Begins
- 2015 – Texas State Water Right received
- 2018 – USACE 404 permit received
- 2019 – Construction on all components underway



Bois d'Arc Lake Mitigation Project

Fannin County, Texas

- Restoring and enhancing approximately 70 miles of stream and 15,000 acres of aquatic and terrestrial habitat
 - 2,500 acres of emergent wetlands
 - 6,000 acres of forested wetlands
 - 3,300 acres of native grassland
 - 1,500 acres of riparian woodlands
 - 1,200 acres of upland forest
- 20-year project with 3-year construction schedule and 17-year monitoring and maintenance

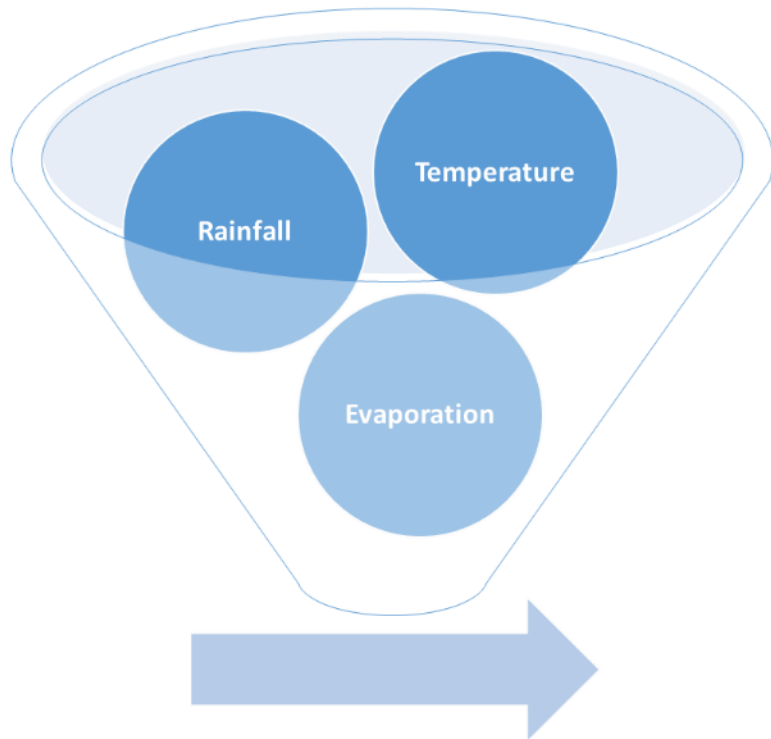
Planting ~ 5 million trees in 3 years
1.6 M planted winter 2018-2019



Resiliency Planning

- Impact of Climate Trends
 - Water Supply
 - Demand
 - Return Flows





Reservoir Inflow and
Water Supply

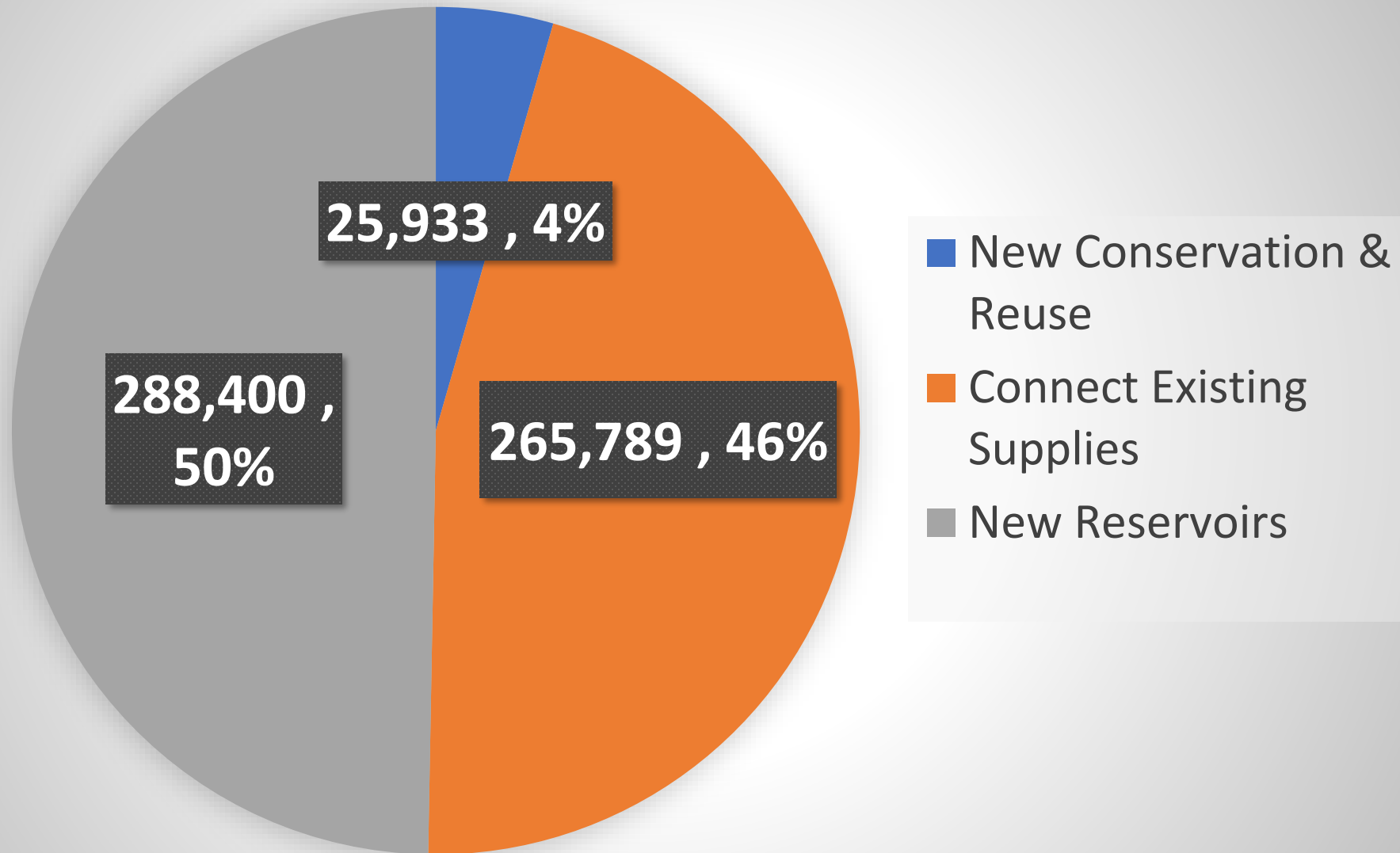


Water Demand



Wastewater Return
Flows

NTMWD 2070 Additional Supply by Type (Acre-Feet per Year)



NTMWD Long-Range Water Supply Plan





Questions