

CITY OF WOLFFORTH

Water Conservation Plan

Record Management System

- All water delivered to customers is metered through an AMI/AMR meter reading system. This system allows for the city to track real time reporting data for water use. The meters are read monthly for billing purposes.
- The city will continue to maintain records for water received, water treated, water pumped, water delivered and sold, and loss. These pumpage and meter readings are compiled either daily, monthly, and annually on spreadsheets which are reviewed by City personnel to compile annual reports.
- Distributed water is recorded using the following categories:
 - Single family residential
 - Multi family residential
 - Commercial
 - Institutional
 - Builder accounts
- Miscellaneous water use consists of recording known tank overflows, pump testing, water leak repair, fire hydrant usage, flushing valves, and fire department use. When possible and known this water is recorded.

Specific, Quantified 5 & 10-Year Targets

Water Conservation Plan Goals Table
 TWDB Form No. 19&4
 Revised 12/14/2012 1:53 PM



WATER CONSERVATION PLAN 5- AND 10-YR GOALS FOR WATER SAVINGS

Facility Name: City of Wolfforth

Water Conservation Plan Year: 2023

	Historic 5yr Average	Baseline	5-yr Goal for year <u>2028</u>	10-yr Goal for year <u>2033</u>
Total GPCD ¹	124	124	123	122
Residential GPCD ²	109	109	108	107
Water Loss (GPCD) ³	9	9	9	9
Water Loss (Percentage) ⁴	7 %	7 %	7 %	7 %

1. Total GPCD = (Total Gallons in System + Permanent Population) ÷ 365
 2. Residential GPCD = (Gallons Used for Residential Use + Residential Population) ÷ 365
 3. Water Loss GPCD = (Total Water Loss + Permanent Population) ÷ 365
 4. Water Loss Percentage = (Total Water Loss + Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

Measuring and Accounting for Diversions

Raw water from City wells is individually metered at the well head. Water going through the treatment plant is measured by flow meters which are read daily for record keeping and accuracy. All meters are calibrated on an annual basis, and more frequently if needed. Calibrations are performed by an independent contractor. Calibration log sheets are maintained by the Public Works department.

Universal Metering

- Metering all water distribution and consumption allows the city to account for water use and water loss and to prevent unauthorized consumption.
- The City of Wolfforth meters all connections, both customer and public. Meters range in size from ¾” to 6”. All meters are designed to provide accurate flows to within +/-5%.
- The city has a maintenance program for water meters to include testing, repair, and replacement as indicated by flags in the AMI/AMR meter reading software (Neptune) or when damaged. New meters are always used when a change is required, never new or rebuilt meters.
- Meters that show unusual usage or have a questionable reading will be replaced upon determination that replacement is necessary.

Measures to Determine and Control Water Loss

- Distribution lines are visually inspected periodically to identify any leaks. Wolfforth has an after-hours hotline for citizens to report any leaks or potential water main breaks.
- Monthly monitoring of active/inactive accounts and meters is conducted through our Utility Billing Department.
- Losses attributed to illegal connections are identified and may result in theft charges to the offender.
- Meters tend to measure slowly as they age. Inaccurate and non-readable meters are changed out when reported by meter reading software reports.

Continuing Public Education & Information

The City of Wolfforth has taken the following measures to promote conservation efforts and public involvement:

- Inserts regarding conservation measures included in utility bills.

- Information distributed by direct contact (door notices) to customers that need to practice conservation efforts.
- Establishment of a water conservation committee to produce a strategic plan and ideas to increase public cooperation.
- Information from the TWDB and TCEQ available for customers at City Hall
- Social media posts are made by the city to encourage and inform the public on water conservation ideas.

Non-Promotional Water Rate Structure

- To encourage water conservation and to discourage excessive water use the City of Wolfforth has implemented a tiered rate structure with increasing rates for increasing use.

0 to 3,000 gallons monthly	\$75.62
3,001 to 15,000 gallons monthly	Base, plus \$7.79 per 1,000 gallons
15,001 to 30,000 gallons monthly	rates above, plus \$8.96 per 1,000 gallons
30,001 to 50,000 gallons monthly	rates above, plus \$10.52 per 1,000 gallons
over 50,001 gallons monthly	rates above, plus \$12.64 per 1,000 gallons

Reservoir Systems Operations Plan

Not applicable to the City of Wolfforth.

Enforcement Procedure and Plan Adoption

- The City of Wolfforth has adopted this Water Conservation Plan by Ordinance 2023-____ (to be adopted upon TWDB approval).
- The City of Wolfforth has also adopted a drought contingency plan by Ordinance 2023-013

Section 13.03.011 of ordinance 2023-013 allows for the following enforcement measures:

Sec. 13.03.011 Enforcement

(a) No person shall knowingly or intentionally allow the use of water from the City of Wolfforth for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by the City Manager, or his/her designee, in accordance with provisions of this Plan.

(b) Any person who violates this Plan is guilty of a misdemeanor and, upon conviction, shall be punished by a fine of not less than one hundred dollars (\$100.00) and not more than five hundred dollars (\$500.00). Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is convicted of two or more distinct violations of this Plan, the City Secretary shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances shall be restored only upon payment of a re-connection charge, hereby established at one hundred dollars (\$100.00), and any other costs incurred by the City of Wolfforth in discontinuing service. In addition, suitable assurance must be given to the City Manager that the same action shall not be repeated while the Plan is in effect. Compliance with this Plan may also be sought through injunctive relief in the district court.

(c) Any person, including a person classified as a water customer of the City of Wolfforth, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violations. Parents shall be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents' control shall constitute a rebuttable presumption that the parent committed the violation, but any such parent may be excused if he/she proves that he/she had previously directed the child not to use the water as it was used in violation of the Plan and that the parent could not have reasonably known of the violation.

Coordination with the Regional Water Planning Group(s)

- The chair of the Region O water planning group will be provided with a copy of this conservation plan.

Plan Review and Update

- The city will review and update this Water Conservation Plan based on a review of the 5- and 10-year targets and any other new or updated information to keep up with tremendous growth and extreme drought conditions. The city will review the water conservation plan every 5 years.

ADDITIONAL REQUIREMENTS FOR LARGE SUPPLIERS

Leak Detection and Repair

The City of Wolfforth will continue to monitor the water distribution system and customer service connections for water leaks and will address the repair of any leaks found immediately.

- Meter readers will report illegal connections and abandoned locations with water service so that they can be addressed quickly. This will be done monthly during meter reading.
- Crews are available on an on-call basis 24/7 to repair any reported water leaks from the public or city personnel.

Contract Requirements

- The City of Wolfforth is not a wholesale water provider.

ADDITIONAL CONSERVATION STRATEGIES

As referenced above, the City of Wolfforth has adopted conservation-oriented rates. We have an increasing block schedule.

A program and/or ordinance(s) for landscape water management.

Ordinance 2023-013 is in place for drought control procedures.