

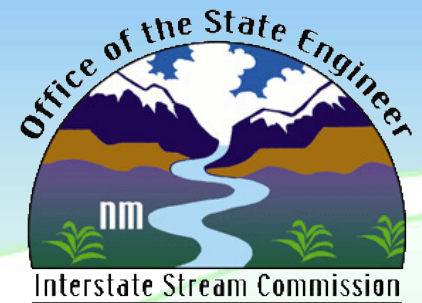
# Water Conservation Tools

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# Water Conservation Tools

## The Water Conservation Plan

- A water conservation plan provides for a structured program with measurable results to reduce water use over the long term.
- A water conservation plan is significantly different than an emergency response plan, such as limiting outdoor watering during a drought.
- Water conservation plans cannot only save water, but reduce operating costs.



# New Mexico's Water Conservation Planning Guide for Public Water Suppliers

The Office of the State Engineer, Water Use & Conservation Bureau has recently completed a guide to aid water systems to develop and implement a water conservation plan.  
[http://www.ose.state.nm.us/wucp\\_pws.html](http://www.ose.state.nm.us/wucp_pws.html)



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# Substance of the Guide & Tools

## ➤ Table of Contents

- Data Collecting
- Date Results and Analysis
- **Setting Water Conservation Goals**
- Public Involvement, Education, and Outreach
- Developing a Water Conservation Program

## ➤ Tools

- AWWA Water Loss Audit Software (Free)
- NMOSE Gallons per Capita per Day (GPCD) Calculator



# The Guide is Scalable



Big and Small systems can use the tools to develop a water conservation plan.



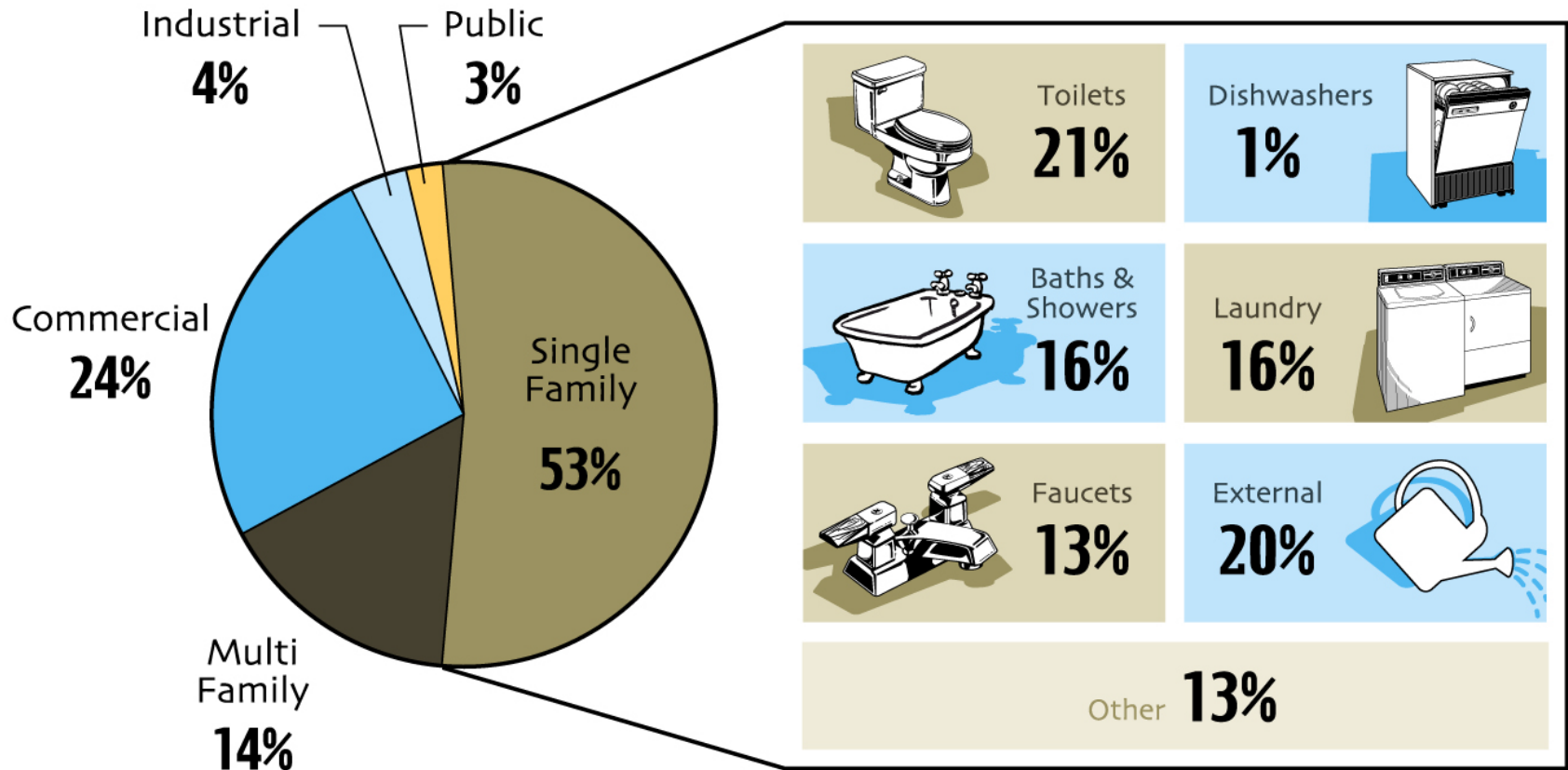
For Small systems a simple spreadsheet will suffice.

## At its Simplest:

Water Produced – Water Sold =  
Non-Revenue Water

Annual Water Sold/Users/365 =  
GPCD

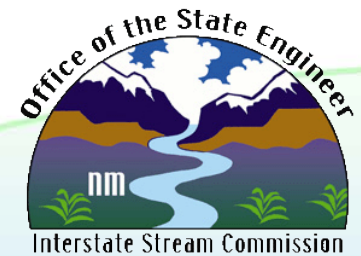
# Conservation Programs Should Focus on Biggest Users\*



\*Evaluating Water Conservation Cost-Effectiveness With End Use Model - William & Michelle Maddaus: Proceedings 2004 Water Sources Conference, AWWA, Austin Texas, January 12-14, 2004

# Areas to Evaluate for Water Loss

- **Leak Detection**
- **Meter Calibration and Replacement**
- **Unmetered Uses, such as fire hydrant flushing, dust control, and park watering**
- **Water Theft such as illegal connections and unmetered water taken from hydrants**
- **Other losses such as tank overflows**



# Conservation Program Elements

- **Establish Baseline for Non-Revenue Water and GPCD**
- **Set Program Goals, such as less than 10% Non-Revenue Water and less than 100 GPCD**
- **Implement Best Management Practices for Program**
- **Recalculate Non-Revenue Water and GPCD to measure impacts of Program**
- **Make Adjustments as Necessary to Achieve Goals**

Thank you for your interest!

