

City of Bellingham

Water Conservation Update and Water Use Efficiency Requirements

COB Water Conservation Program

Past and Present

- System leak detection and repair

- Voluntary Metering Program

- Single-family residential customers
- Estimated Water Consumption calculator



- Spray-head Replacement Program
- Commercial customers



■ Education and outreach targeted towards outdoor watering (peak season demand)

- Video: Every Drop Counts
- Rain Barrel Workshops
- City Hall Display
- Brochures, events, website

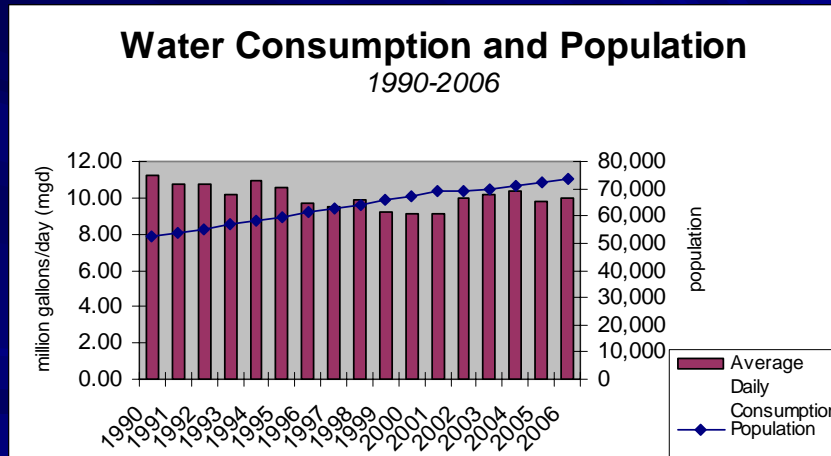


■ Water Conservation Kits

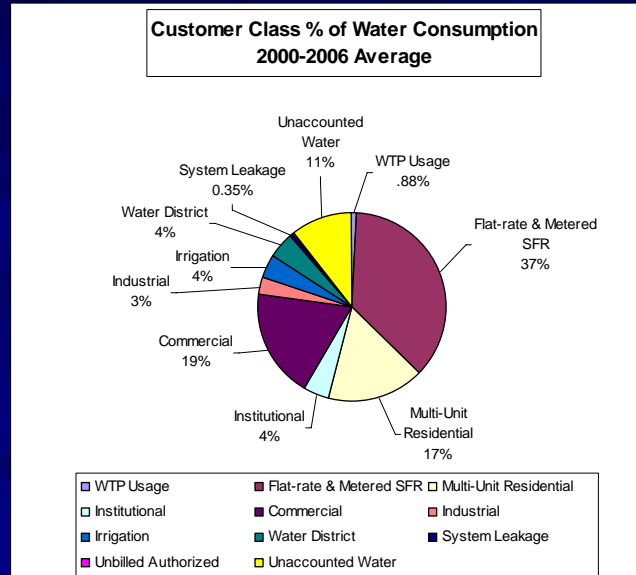
■ Water Conservation public survey

- To be completed December '07, will help guide future WUE Program

Historical Consumption Data



Consumption by Customer Class



Going Forward

- WA Department of Health
 - Municipal Water Law (2003)
- Regulatory Water Use Efficiency Program
 - Long-term water supply reliability & public health protection
 - Promote good stewardship of state's water resources
 - Ensure efficient operation and management of water systems

Key Elements

- **Planning Requirements**
 - Collect data, forecast demand, evaluate WUE measures, calculate distribution system leakage, implement WUE program
- **Distribution Leakage Standard**
 - Meet distribution leakage standard of 10% or less, production & service meters required
- **Goal Setting and Performance Reporting**
 - Set WUE goals through public process and report annually on performance

Deadlines

Requirement	Deadline for municipal water suppliers with 1,000 or more connections
Begin collecting production and consumption data	January 1, 2007
Include WUE program in planning documents	January 22, 2008
Set your own WUE goals	January 22, 2008
Submit service meter installation schedule	July 1, 2008
Submit first annual performance report	July 1, 2008
Meet distribution leakage standard (based on 3-year rolling average)	July 1, 2010, or three years after installing all service meters
Complete installation of all service meters	January 22, 2017

January 22, 2008 Deadline Items

STAFF:

- Demand Forecasting
 - with and without WUE measures implemented
- Rate Evaluation
 - evaluate rates that encourage water use efficiency
- Reclaimed Water Opportunities Evaluation
- Propose WUE Goals and Measures

COUNCIL:

- Adopt WUE Goals and Measures (nine)

July 1, 2008 Deadline Items

- Submit Service Meter Installation Schedule
 - Metering progress and efforts to minimize leakage
 - Complete installation of all service meters required by 2017
- Submit First Annual Performance Report
 - System production and consumption, distribution leakage rate
 - WUE goals, schedule for achieving them, progress towards achieving them

Where We're At For January 22

- **Formatting Production and Consumption Data**
 - Working with consultant to update and finalize Water System Plan- WUE Program to be added to this planning document

- **Evaluating WUE Measures and Goals**
 - Existing and proposed for adoption in Jan '08

Proposed Goals and Measures

Set for 6 year period

- **Goals:**
 1. Maintain city-wide per capita daily consumption
 2. Keep city-wide water demand equal to or below city population growth rate

- **Measures:**
 1. Toilet retrofit program for SFR customers
 2. Toilet retrofit program for Multi-family customers
 3. Toilet retrofit program for Commercial customers
 4. Develop & implement 6th grade water conservation education program

Proposed Goals and Measures

- Measures (cont'd):
 5. Lawn Watering door hanger campaign
 6. Evaluate and Develop High-Efficiency Fixture Program
 7. Develop future water rate structures with an emphasis on water conservation
 8. Upgrade City Parks to High-Efficiency Irrigation Systems
 9. Continue existing Public Outreach measures

QUESTIONS?

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