Water Use Efficiency Program

Lake Whatcom Water and Sewer District

WUE Goals and Measures

2010 Customer Goals Update

Purpose

- Goals are established through a review process and in conjunction with public input.
- The main purpose of the goals is to create a program that will bring the District within all requirements of the WUE Program.
- Measures are activities that will move LWWSD towards accomplishing these goals.

Goal #1 –
Reduce Distribution System Losses

- Focus on South Shore (Geneva and Sudden Valley) and Agate Heights service areas.
- Near Term (2012): <15% losses.
- Long Term (2015): <10 % losses.
- WUE standard: less than 10% losses.

(No change from 2008)

Goal #2 –
Reduce High Residential Consumption

All Service Areas

- Focus on reducing peak usage during Summer months.
- Summer usage increases by 8.8% - 89.7% over average usage
- Goal is to reduce summer peak 25% by 2015:

Three-Year Averages	Annual Usage per Capita (GPD)	Summer Usage per Capita (GPD)	Summer increase %		Decrease Summer Peak 25%	Target Summer Usage (GPD)
SUDDEN VALLEY	59.0	64.3	8.8%	*	6.6%	63.0
GENEVA	60.8	79.2	30.3%		22.7%	74.6
AGATE HEIGHTS	65.4	82.2	25.6%		19.2%	78.0
JOHNSON WELLS	64.0	102.2	59.7%	**	44.8%	92.7
EAGLERIDGE	89.1	169.1	89.7%		67.3%	149.1

* SV meter readings cover Jun/Jul and Aug/Sep; others are Jul/Aug

** Johnson Well service area has only two customers so there is minimal averaging over the overall population.

(Original Goal only included Eagleridge Service Area)

Goal #3
Maintain Low Residential Consumption Levels

- Annual usage levels appear to be rising over the last 3 years
- Goal is to reduce 3-year average annual per capita usage by 2% by 2015

	2007 Annual Usage Per Capita	2008 Annual Usage Per Capita	2009 Annual Usage Per Capita		3-yr Avg Annual Usage Per Capita	Target Annual Usage (2% reduction)
SUDDEN VALLEY	52.7	61.5	63.0		59.0	57.9
GENEVA	54.3	60.0	68.1		60.8	59.6
AGATE HEIGHTS	59.2	61.7	75.4		65.4	64.1
JOHNSON WELLS	55.5	66.7	69.9	**	64.0	62.7
EAGLERIDGE	90.3	83.4	93.7		89.1	87.3

(Original Goal was to maintain existing low usage levels)

Required Measures

- Install production (source) meters – *Complete*
- Install consumption (service) meters – *Complete*
- Perform Meter Calibration – *Ongoing*
- Implement a water loss control action plan to control leakage over 10%– *Plan initiated*
- Educate customers about water use efficiency practices – *Complete; bimonthly bills contain water conservation information*

Additional Supply-Side Measures

- Improve record-keeping of non-metered authorized consumption (hydrant flushing, construction, gravity sewer flushing, Fire Department training, quantify known leaks, etc.) – ***Ongoing***
- Replace service meters for condominiums and other larger service meters that were not replaced under radio-read meter program. – ***Complete***
- Replace malfunctioning and obsolete fire hydrants. – ***Ongoing***
- Purchase additional portable hydrant meters. – ***Complete***
- Control unauthorized use of water. – ***Ongoing***
- Monitor overnight tank levels for unusual drops. – ***Ongoing***

Additional Consumption-Side Measures (minimum of 6 required)

- Conservation Rate Structure (+4)*
- Water bill showing consumption history (+4)*
- Customer conservation education (newsletter, bill stuffers) (+4)*
- Customer leak education (+4)*
- Participate in Regional Water Conservation programs and/or measures (+1)

Total: 17 consumption-side measures

* Each customer class (4) counts as a measure

Customer classes are: single family residence, multi-family residence, recreational services, and institutional services.