

OTHER PROGRAM FINDINGS

We were able to study four miscellaneous programs from three utilities. We looked at one ordinance (Utility O-1) two years of an ICI water budget/surcharge program (Utility S-1) and a water conservation class (Utility C-1). These programs took place between 2001 and 2003.

Two of the utilities studied were classified as small (less than 100,000 customers) and one was classified as large (over 200,000 customers).

Utility O-1 enacted an ordinance aimed at reducing the water use of residential, municipal, and commercial customers, including measures such as watering restrictions. This utility saw the highest water savings of the three due to the widespread nature of the ordinance along with high per-participant water savings.

Utility S-1 enacted a surcharge system in which commercial and municipal customers using more water than their annual water budget allowed were fined in accordance with the amount of use over their budget. This utility saw the highest per-participant water savings of the three.

OTHER PROGRAMS	
Total Participants:	21,707
Participating Utilities:	3
Cases Analyzed:	4
Customers Analyzed:	various
Types of Programs:	ordinance, surcharge, conservation class
Years Analyzed:	2001 - 2003

Utility C-1 offered residential customers water conservation classes. After participating in the class, customers would not be required to follow the restriction on watering every-third-day. Participants would then water when needed instead of every third day. This utility saw a modest water savings compared to the other two utilities, and this was most likely due to the small scope and behavior-oriented nature of the program.

WATER SAVINGS

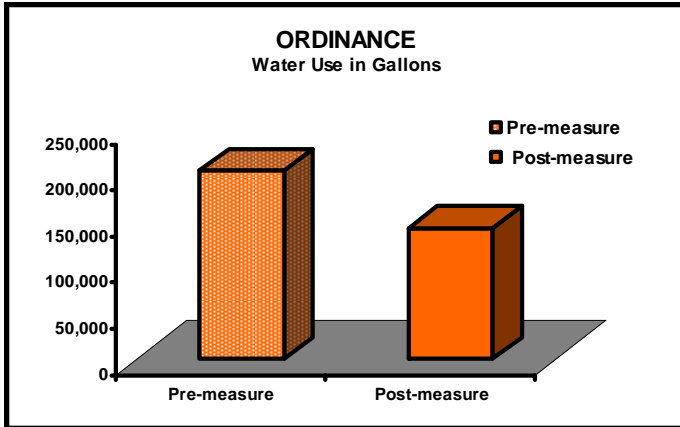
Some analyses show “negative” water savings, where control group water use decreased more (or increased less) than participant water use.

PRE- & POST-MEASURE RELATIVE WATER USE

The participants of the ordinance, **Utility O-1**, did not have a control group. Their water use decreased by 31%, on average, from pre-ordinance to post-ordinance.

The surcharge program, **Utility S-1**, did have a control group, and the participants used 117% of the control group prior to the surcharge and 102% of control after the surcharge.

The conservation class program, **Utility C-1**, also had a control group,

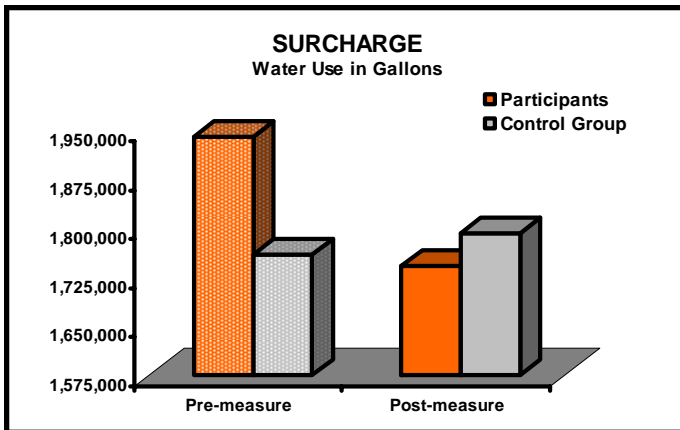


and the participants used 95% of the control group prior to the class and 92% of control after the class.

RANGE, AVERAGE, MEDIAN SAVINGS

The average water savings per participant per year for the **ORDINANCE** was 62,208 gallons.

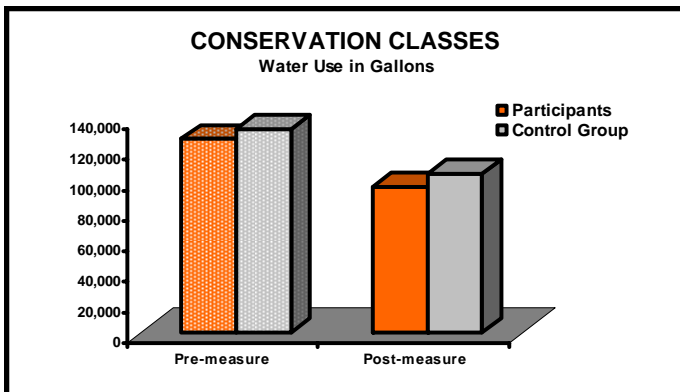
The average water savings per participant per year for the **SURCHARGE** program was 241,157 gallons.



The average water savings per participant per year for the **CONSERVATION CLASSES** was 3,524 gallons.

PERSISTENCE OF SAVINGS

The water savings per participant for the ordinance was 59,854 gallons after the first year and 64,562 gallons the second year after, which shows an 8% increase in water savings from the first year to the second year after the program.



The water savings per participant for the surcharge program was 303,210 gallons after the first year and 179,104 gallons after the second year, which shows a 41% decrease in water savings from the first year to the second year after the program.

The water savings per participant for the conservation classes was 3,442 gallons after the first year and 3,606 gallons after the second year, which shows a 5% increase in water savings from the first year to the second year after the program.

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OVERALL LIFESPAN SAVINGS

The water savings over the entire 20-year lifespan of the **ORDINANCE** was 38,372.9 AF.

The water savings over the entire 5-year lifespan of the **SURCHARGE** program was 673.5 AF.

The water savings over the entire 5-year lifespan of the **CONSERVATION CLASSES** was 2.0 AF.

ECONOMIC ANALYSIS

COST PER ACRE FOOT SAVED

The cost to **Utility O-1** to save an acre foot of water with the ordinance was \$2.

The cost to **Utility S-1** to save an acre foot of water with the surcharge program was \$52.

The cost to **Utility C-1** to save an acre foot of water with the conservation classes was \$513.

COST TO UTILITY AND OTHERS PER PARTICIPANT

The per-participant cost to **Utility O-1** was \$4. The per-participant cost to **Utility S-1** was \$193. The per-participant cost to **Utility C-1** was \$28.

COST TO PARTICIPANTS

The cost to the **ORDINANCE** participants was \$0.12 per participant. The cost to the **SURCHARGE** participants was \$351 per participant. The cost to the **CONSERVATION CLASS** participants was \$0 per participant.

NET PRESENT VALUE

The Net Present Value to the utilities were **-\$89,288** for **Utility O-1**, \$30,359 for **Utility S-1**, and **-\$1,027** for **Utility C-1**.

The Net Present Value to the participants were \$34,217,013 for **Utility O-1**, \$324,628 for **Utility S-1**, and \$1,947 for **Utility C-1**.

The overall Net Present Value were \$34,127,725 for **Utility O-1**, \$354,987 for **Utility S-1**, and \$920 for **Utility C-1**.

