

**WATER SUSTAINABILITY
CITY OF KELOWNA WATER UTILITY**



Kelowna: An Irrigation Oasis



Typical Kelowna home and park: a love affair with turf grass.

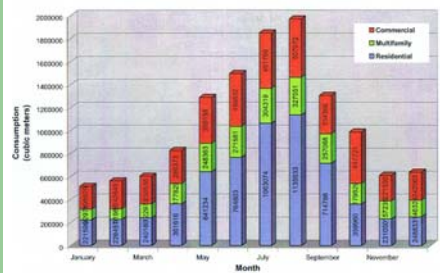
Kelowna: An Irrigation Oasis



Total Yearly Water Consumption:
Residential

Rapid growth, public expectations and affluence create spiraling peak demand.

Kelowna: An Irrigation Oasis



Initial Approach to Reduction

- Established a 3 pronged approach using universal metering , user pay rate structure and customer education
- Metering is the necessary tool to understand customer use and to assist in setting rates
- Increasing block rate structure established
- Customer education through Water Smart

Developing Water Rates

Water meters are an essential tool to understand how various customer classes use water
 Understand the full cost of service to your customer
 Ensure equity through user pay rate structures
 Increasing block rate structure assists to create awareness of water use and can change behaviour

Water Smart Program Elements

- One-on-one customer education
- Free irrigation system assessments
- Soil amendment program
- Compost tea program
- Use meter data to identify and target excessive water users
- Work internally with city facilities and parks department

CITY OF KELOWNA: Water Sustainability Action Plan



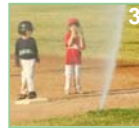
The Goal

To build on the 20% reduction in overall water use achieved since 1998, with a further 15% reduction by 2012.

Seven Steps to Water Sustainability

1. Demand Side Management Programs
2. Customer Education
3. Link Water Conservation to Development Approvals
4. Ensure Effective Full Cost Pricing
5. Reduce Water System Leakage
6. Ensure the Use of Efficient Fixtures
7. Explore and Develop Water Reuse

Landscape and irrigation design standards



CURRENTLY

- 1) Poor Soil
- 2) Inappropriate plants
- 3) Poorly designed irrigation systems
- 4) Landscapes requiring chemical pesticides, fertilizers

Landscape and irrigation design standards



STANDARDS TO ENSURE...

- 1) Adequate soil
- 2) Appropriate plants
- 3) Efficient irrigation
- 4) Less fertilizer and pesticides

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