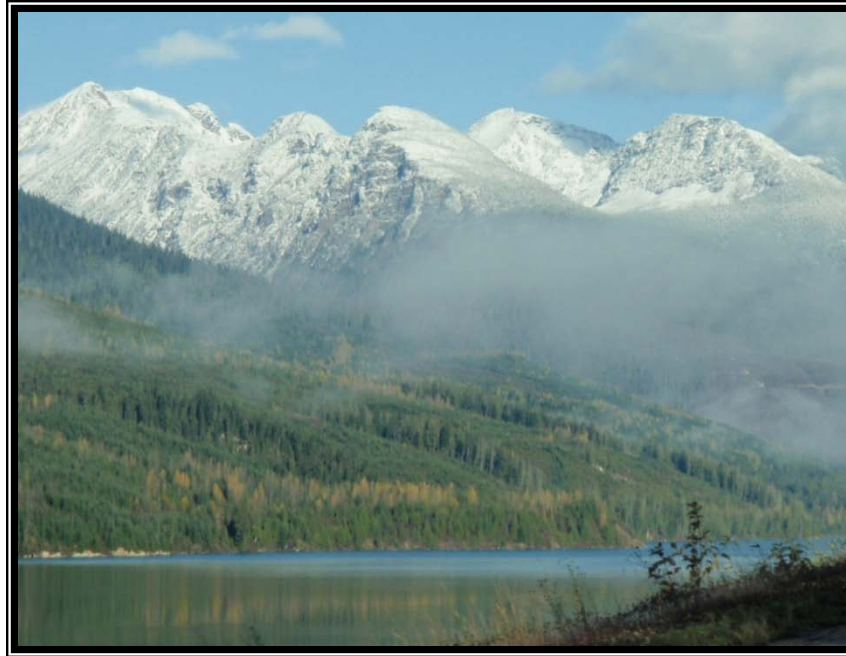


Barriers to Water Conservation



Cranbrook
March 24, 2010

Columbia Basin
Water
Smart

Workshop Outline

- Managing our water supplies – 15 minutes
- Breakout session – 20 minutes
- Group summaries and discussion – 10 minutes

Why conserve?

- Living water smart!
- It all starts with our source water.
- What is the current surface water supply?
- What about groundwater?
- How can you manage something if you have no data?
- Source water protection
- Changes to the *Water Act*
- Climate

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Living Water Smart

- BC has a water plan
- Water is a finite resource
- The Columbia Basin Water Smart Initiative will assist communities within the basin to improve water management and water use

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Water allocation in the Columbia Basin

20% - 34% fully allocated

35% - 50% fully allocated



Data

Active stations in Columbia Basin

Stream Flow	Ground-water	Climate	Snow
60	4	16	34

Source Water Protection

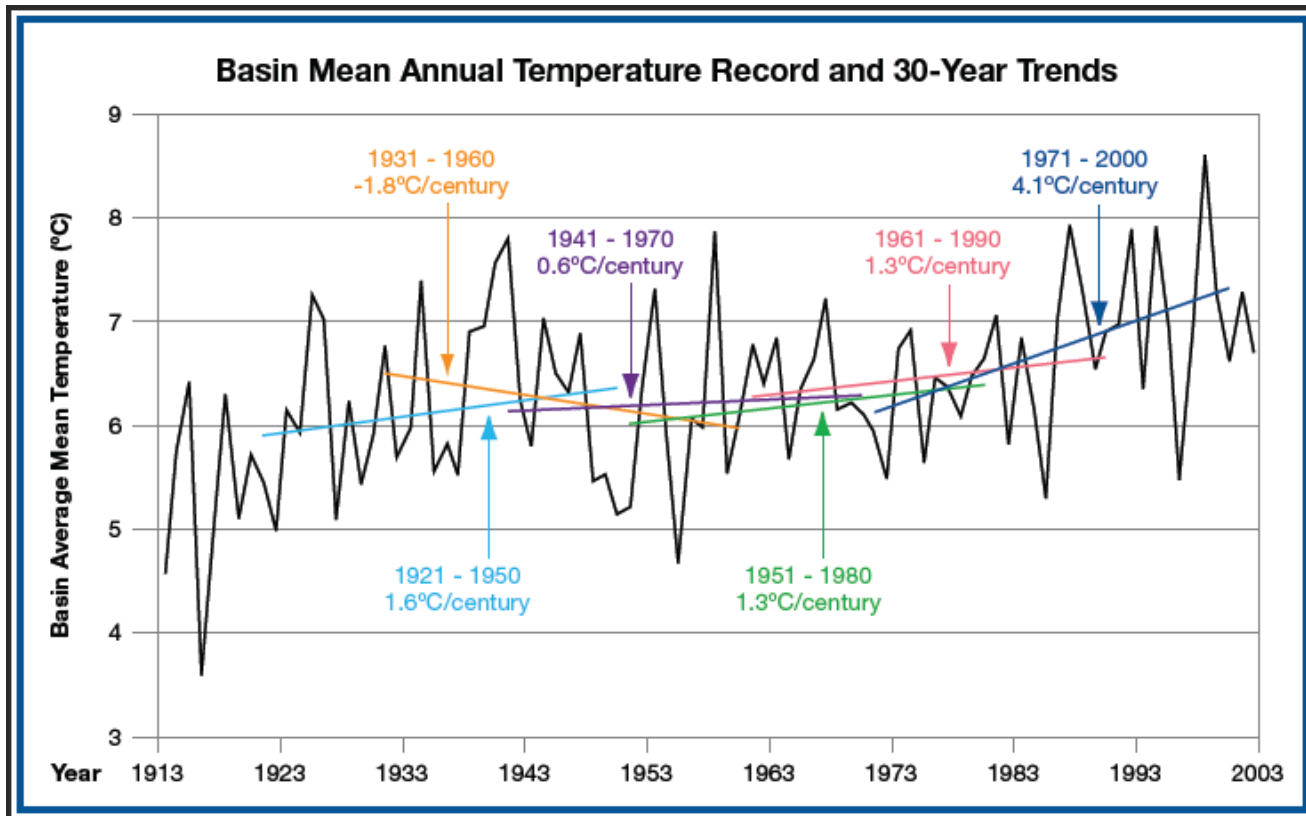
- *Drinking Water Protection Act*
- IHA conditions on permits
- Cost of water treatment

Changes to the *Water Act*

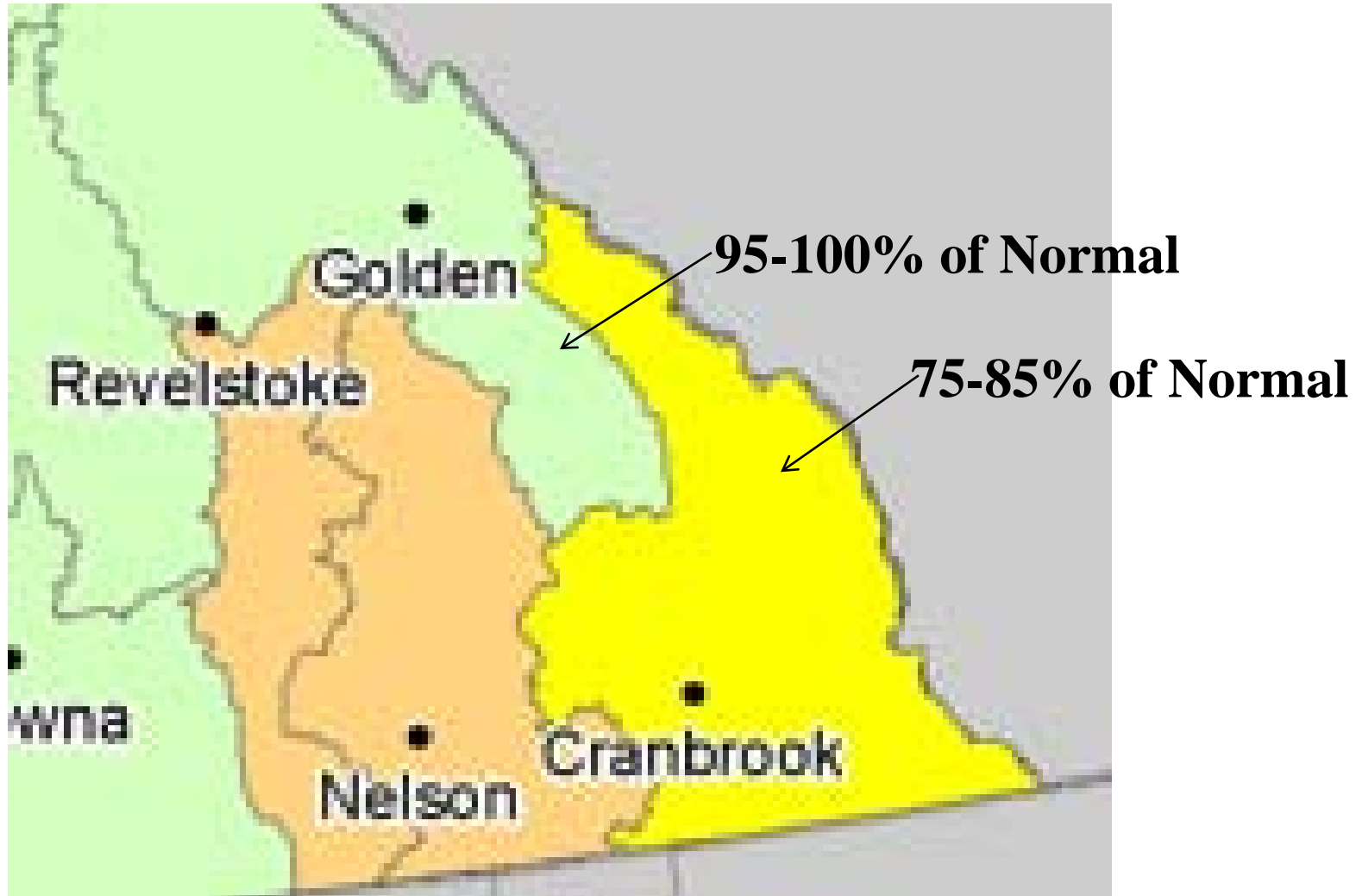
- Current Act focuses primarily on water allocation
- Proposed changes to the Act could include:
 - stream health and aquatic environments
 - governance
 - flexibility and efficiencies in allocation
 - regulating groundwater

Climate

- Climate change in the Columbia Basin



Snow



Risk:

Higher temperatures and possibly decreasing summer precipitation suggest more prolonged and intense droughts with lower water supply during periods of peak demand.

Response:

Strengthen water conservation education and practices.

Risk :

Possible declines in recharge rates for groundwater sources.

Response:

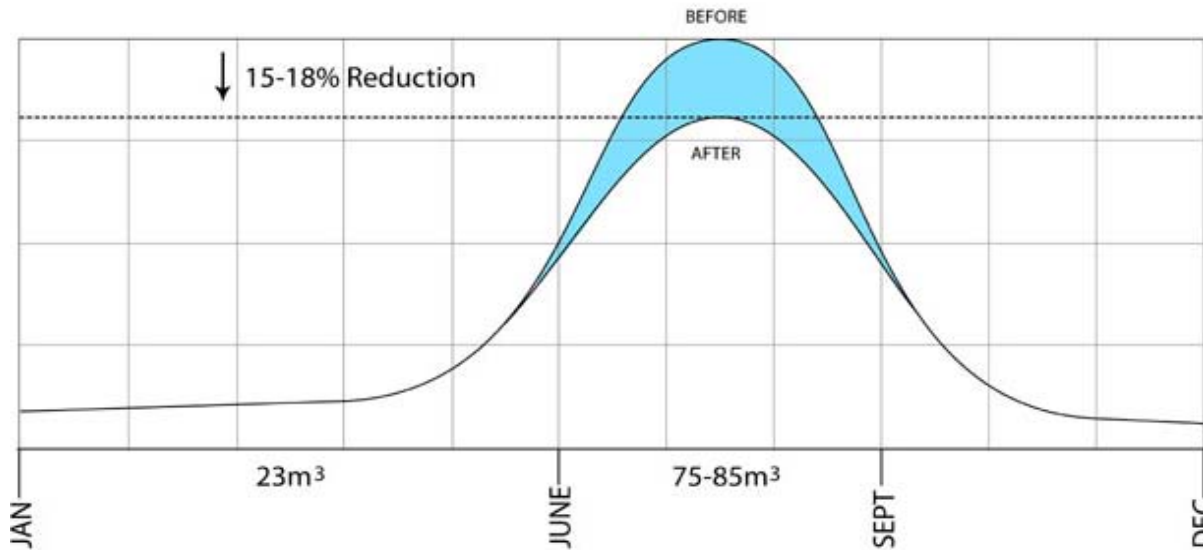
Develop tools to better understand water use and responses to drought.

Improved groundwater information including recharge rates and locations.



Water Conservation

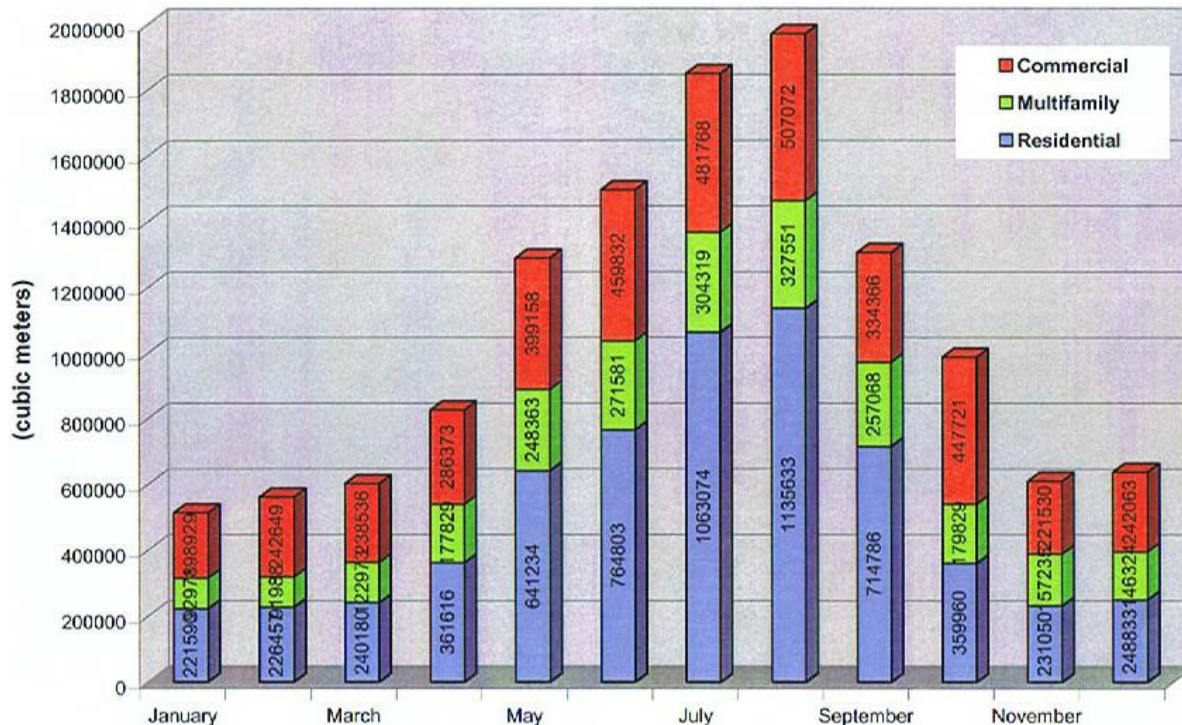
A Water Conservation Plan should make sense for the community it serves. The approach taken by one community may not work for another.



Kelowna's plan is based on reducing peak demand in summer months. This is driven by the cost of supply infrastructure.

Water Conservation

A Water Conservation Plan should target the right customer group for the right reasons. To make the right decisions, water consumption data is crucial



Kelowna's data clearly shows that single family residents use the most water, and that landscape irrigation is the primary use.

Barriers or Benefits?

- Legal
 - Bylaws
 - Legislation
- Economic
 - Incentives
 - Impediments
- Social
 - Cultural attitudes
 - Shifting paradigm

Questions?

Columbia Basin
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