Climate Change & Water IN THE OKANAGAN

What we can expect, and how we can respond.

THE CHALLENGES WE WILL FACE

- Less water available, but more demand from our growing population, thirsty crops and landscapes.
- Unpredictable weather: very wet years, very dry years, and intense storms.

As our climate warms, we will see winter snow replaced with more rain, and more intense storms.

infrequent but powerful, leading to risks of flood, erosion and landslides, damage to crops, and challenges with water treatment.

Storms will be

Our streams rely on snowpack and reservoir release to meet the needs of residents, farmers, and fish. They are vulnerable to turbidity in the spring and from storms.



Reservoirs in the uplands

Hotter, longer summers mean higher water demand by everyone. We may also have intense, multi-year droughts.

We rely on upland creeks and streams, but taking water out of them can cause problems for the animals and plants living in them or nearby.

Our environment also needs water.

Ocean-going salmon are coming back to the Okanagan! They need a steady flow of cool, kokanee.



clean water in streams as do the land-locked



wet and dry years. Farmers who are flexible with what they

use on farms.
mproved irrigation
and reusing grey
water will help
reduce demand.

We will need to get creative with water



for more of both.

Dry year or wet year? We need to be ready



grow, or work with the weather and available water, will have the advantage.



grows, development will push to the edges of our Agricultural Land Reserve.

As our population

Groundwater is a valuable underground reservoir, often with excellent water quality

INFRASTRUCTURE & WATER SOURCES

and is the only source for some areas. Watch out for overuse, and be careful to not pollute. We may need to find ways to store water underground in aquifers, especially in wet years to meet the demand of

dry years.

1 82

Conserving water and being WaterWise is the cheapest and easiest

way to make sure we have enough.

The main lakes of the Okanagan are a buffer to manage flows of water. They are also a primary source of water for

the population.

If we're to use more lake water, our electricity costs will increase as we

pump more water uphill.

More people = more needs, especially if new homes have lawns and gardens. Build up, not out!

OUR CITIES & LAKES

Our communities are growing!



Our lakes can be managed for high or low years, and have excellent water quality, but watch out for pollution 8 invasive species like zebra and autorage museals quagga mussels.

Every water source is valuable - and every source is vulnerable.

SOLUTIONS FOR A SECURE WATER FUTURE

П

Į. Į.

Upgrade our infrastructure - reservoirs, dams, and water distribution systems - while ensuring the environment stays healthy.

Enforce water regulations. That could mean penalties for wasting or polluting water, slowing water allocations, or easing residential irrigation demands.

Water providers need drought response plans. Communication and collaboration between residents, businesses and government is essential, with everyone working together for a safe, sustainable water future.

LEARNMORE AT WWW.OKWATERWISE.CA











