How much water is out there?
Water Supply & Demand project

www.obwb.ca/wsd
Seasonal water demand

Note: Average, minimum, and maximum values of weekly totals over the 1996 to 2006 period are shown. Weeks 1-12 and 41-52 are periods when little to no irrigation occurs. The assumption of constant indoor water use is the reason for the variability during these weeks.

Figure 6.5 Total weekly water extraction from surface sources in the Okanagan Basin
Current water use

- Agriculture: 55%
- Domestic outdoor: 24%
- Domestic indoor: 7%
- Parks/open space: 2%
- Golf Courses: 5%
- Commercial: 4%
- Institutional: 1%
- Industrial: 2%

86% Irrigation!
Climate change, land use, population growth, multi-year drought

Future Scenarios?
Little change in *AVERAGE* precipitation, but
Warmer air, less snow

30 more frost-free days per year!
## Seasonal Flow Changes – Mission Creek

<table>
<thead>
<tr>
<th>Scenario</th>
<th>June – Sept</th>
<th>Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average</td>
<td>% change</td>
</tr>
<tr>
<td>Baseline: 1996-2006</td>
<td>73,898</td>
<td></td>
</tr>
<tr>
<td>2011-2040, climate change only</td>
<td>58,662</td>
<td>-21%</td>
</tr>
<tr>
<td>2041-2070, climate change only</td>
<td>37,792</td>
<td>-49%</td>
</tr>
</tbody>
</table>

**Summer lows**

**No average change**
Seasonal water demand

Biggest Factor = climate-driven irrigation demand for urban and Ag use
Where do we go from here?

Questions? Email: anna.warwick.sears@obwb.ca