



Theme D: Demand Management

Demand management improves water use efficiency, stretching water supplies further.

Strategies

Develop Regulatory Tools

- Before Drought
- Warning Signs
- During Drought
- After Drought

Develop a CEP Plan

- Before Drought
- Warning Signs
- During Drought
- After Drought

Implement and Encourage Water Conservation, Curtailment Strategies, and Programs

- Before Drought
- Warning Signs
- During Drought
- After Drought

Key Supporting Tools

- Land Use Bylaws
- Water Conservation Bylaws
- Inventory of Municipal Water CEP Plans (Alberta Urban Municipalities Association)
- Water Utility Bylaws
- Drought Preparedness and Response (American Waterworks Association)



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Example Water Conservation and Curtailment Strategies

- Water metering
- Outdoor watering schedule
- Water efficiency plans
- Water conservation rebate programs
- Water restrictions
- Incentives for building renovations
- Water rate systems (consumption based or tiered)
- Documentation of historical knowledge and experience from municipal staff members
- Impacts of additional water licences on the overall water management system
- Forecast future municipal growth
- Water savings audits

Example

In 2015, Vancouver experienced an extreme drought due to a lack of winter precipitation, and water restrictions were placed on residents. Such water restrictions may be more frequent in the future — climate change projections for the region estimate that while total annual precipitation will increase, there will be lower levels of precipitation on average in the summer, which is already the driest season of the year.¹

While options are being explored to increase the water supply, most of the City's efforts are focused on decreasing demand through public awareness initiatives, such as the We Love Water Campaign². Overall efforts to reduce water demand have seen some success — the average daily per capita water use for Metro Vancouver has been steadily decreasing since 2009.³

1 <http://www.metrovancouver.org/services/air-quality/AirQualityPublications/ClimateProjectionsForMetroVancouver.pdf>

2 <http://www.metrovancouver.org/welovewater/Pages/default.aspx>

3 <http://www.metrovancouver.org/dashboards/services/water/Pages/Average-day-per-capita-water-use.aspx>