



















State of Climate Adaptation: RDEK Area F 2017

Results at a glance

Legend

 Water Supply
  Extreme Weather and Emergency Preparedness
  Agriculture
  Flooding
  Wildfire

 Upward trend
  Downward trend
  Stable/no trend
  Present
  Absent
  Insufficient data

INDICATOR AND DESCRIPTION		PATHWAY	RESULTS
Climate Changes	Climate averages: temperature – average monthly temperature		
	Climate averages: precipitation – average monthly precipitation		
	Climate extremes: temperature – annual frequency of hot days		
	Climate extremes: precipitation – annual amount of rain falling on very wet days		
	Freeze-thaw cycle - total number of days annually where maximum temperature > 0 °C and minimum temperature < 0 °C during the same day		
	Frequency of strong wind events – total number of days annually with sustained winds of 70 km/h or more and/or gusts to 90 km/h or more		
	Frequency of extreme heat days – total number of days each year where maximum daily temperature exceeds 30 °C		
	Frequency of extreme snowfall events – annual number of days with snowfall amounts of 15 cm or more within 24 hours		
	Maximum 1-day rainfall – annual maximum 1-day precipitation		
	Number of days with high fire danger – annual number of days in high or extreme danger classes of Canadian Forest Fire Danger Rating System		
Environmental Impacts	Air quality – concentrations of fine particulate matter in the air		
	Area burned by wildfire – number of hectares burned on an annual basis		
	April 1st snow pack – depth of snowpack on April 1 each year		
	Consecutive dry days – maximum number of consecutive dry days		
	Drought index – number of days per BC Drought Index Level		
	Growing degree days – amount of heat energy available for plant growth		
	Ground water level – average monthly ground water level		
	Glacier extent – area of glaciated terrain		
	Invasive species – number of species present and extent of coverage		
	Growing season length – annual number of days between the first and last occurrence of 5 consecutive days with a mean temperature of greater than 5°C		
	Source water quality – monthly average turbidity and temperature		
	Stream flow timing – date of half total flow, annual peak yield and late summer minimum yield		

INDICATOR AND DESCRIPTION		PATHWAY	RESULTS
	Stream flow volume – discharge for annual maximum and late summer minimum		
	Wildfire starts – annual number of human- and lightning- caused wildfire starts		
Adaptation Actions & Capacity Building	Backup power sources – presence of backup power source for essential services		
	Community food production – number of people in the community who grow at least a small portion of their own food		
	Emergency preparedness plan – presence of an emergency preparedness plan, including a community evacuation plan that has been updated within the last 5 years		
	FireSmart-recognized community – recognition through FireSmart Canada's Community Recognition Program		
	Flood mapping extent and updates - currency and extent of flood mapping		
	Hectares irrigated – number of hectares irrigated		
	Interface fire risk reduction – area treated to reduce wildfire risk		
	Policies to reduce water consumption – degree of implementation of water consumption policies/practices		
	Residents with 72-hour emergency preparedness kits – proportion of residents with 72-hour emergency preparedness kits		
	Water loss detection practices – degree of implementation of specified water loss detection practices		
	Water protection plans – consideration of projected climate changes in water planning documents		
	Community Impacts & Adaptation Outcomes	Area farmed – annual number of hectares being farmed	
Agricultural productivity – ratio of agricultural outputs to inputs (in market value)			
Campfire bans – annual number of days under a campfire ban			
Cost of fire suppression – total amount of money spent on fire suppression annually			
Developed properties in floodplain – number of developed properties in known and active floodplains			
Drinking water quality – annual length of drinking water advisories or boil water notices			
Highway closures – number (per year) and/or duration (hours) of highway closures due to wildfire, flooding or weather			
Frequency of interface fires – annual number of wildfires within 2 km			
Implementation of water restrictions – number of days annually where water restrictions are active			
Per capita water consumption – annual volume of total water supplied, expressed per capita			
Provincial emergency assistance payments – amount paid to local government for clean up related to landslides, avalanches, snow, wind or freezing rain			
Water loss – percentage of water supplied annually that is lost to leakage			
Wildfire evacuation orders – number of evacuation orders due to the threat of wildfire			