

CLIMATE CHANGE IMPACTS

SHIFTING ECOSYSTEMS

- permafrost thaw
- shifting ranges
- changes in water levels
- longer growing season
- changes in vegetation
- earlier spring
- warmer lakes/ivers
- warmer winters
- berries & plants under stress
- dry land
- poor drinking water quality
- low water
- dusty conditions
- more evaporation from plants, land & water

INFRASTRUCTURE

- more heavy rains
- wastewater lagoon leakage
- severe storms
- heavy wet snow loads
- building damage
- road flooding & damage
- contaminated drinking water source
- damage to energy infrastructure causing power outages

DROUGHT



- warmer temperatures
- changing rain & snow
- more storms / more severe storms

HEALTH

- evacuations
- mental stress
- respiratory issues
- allergies
- hot days
- heat illness
- more pollen
- ticks & mosquitoes in new places
- lyme disease
- west nile virus
- mold in homes & smoke in air
- flooding & fires

WILDFIRE



- poor air quality
- higher risk of accidental ignition
- evacuations & stress
- more lightning (fire ignition)
- drier land (fire fuel)
- longer fire season
- more dead/fallen trees (fire fuel)
- damage to the community
- warmer temperatures
- changing rain & snow
- more storms / more severe storms

FLOODING

- changes in river ice
- more heavy rain events
- spring melt flooding
- changes in ice jams
- more winter rain
- more mid-winter thaws
- lakes/ivers overflow banks
- faster spring melt
- winter flooding from thaw or rain
- flooding from heavy rain

FOOD SECURITY



- change in fish spawning
- changing migration patterns
- cold-water fish under stress
- shifting ranges for plants & animals
- plants & animals moving north

TRANSPORTATION



- delay in winter road opening
- change in ice quality
- higher cost to fly in goods
- social isolation
- shorter winter road season
- ice conditions less predictable
- water routes obstructed
- food & energy insecurity
- severe storms make travel less safe