

Ministry of Water, Land and Resource Stewardship

Drought Management

NE Round Table

June 3, 2025

Marianne Johnson Director, Authorizations WLRS - Permitting Transformation Division- Northeast,

2024 Drought Levels

Drought Levels:	0		1		2		3		4		5		*	Not updated outside of core drought season											
BASINS	02-May	09-May	16-May	23-May	30-May	06-Jun	13-Jun	20-Jun	27-Jun	04-Jul	11-Jul	18-Jul	25-Jul	01-Aug	08-Aug	15-Aug	22-Aug	29-Aug	05-Sep	12-Sep	19-Sep	26-Sep	03-Oct	10-Oct	
Fort Nelson	3	3	4	4	4	4	4	4	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	4	
East Peace	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	4	
North Peace	4	4	4	4	4	4	4	4	3	3	3	3	3	2	2	3	3	3	4	4	4	4	4	3	
South Peace	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5	5	4	3	2	
Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	1	1	0	0	0	
Skeena-Nass	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	1	0	0	
Bulkley-Lakes	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5	5	5	5	5	5	3	3	3	
Finlay	2	2	2	2	1	1	1	1	1	1	1	1	1	0	1	1	2	2	2	2	2	1	0	0	
Parsnip	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	2	1	1	
Upper Fraser West	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	5	
Upper Fraser East	3	3	3	3	2	2	2	2	2	2	1	2	2	2	2	3	3	3	2	3	4	1	0	0	
Upper Columbia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	
Lower Columbia	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	4	3	3	3	3	3	3	3	3	
West Kootenay	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	2	3	3	4	5	5	
East Kootenay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
Kettle	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	
Middle Fraser	3	3	3	3	3	3	2	2	2	2	1	1	1	2	2	2	2	2	2	2	2	1	0	0	
Lower Thompson	2	2	3	3	2	2	2	2	1	1	1	2	2	2	3	3	3	3	2	2	2	1	0	0	
North Thompson	2	2	2	2	1	1	1	1	1	1	1	1	2	3	3	3	3	3	2	2	2	1	0	0	
South Thompson	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	3	3	3	2	2	1	1	1	1	
Nicola	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	3	3	
Okanagan	2	2	2	2	1	1	1	1	1	1	1	2	3	3	3	3	3	3	2	2	2	2	2	2	
Similkameen	2	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	3	2	2	2	1	2	2	2	
Central Pacific Range	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	0	0	
Eastern Pacific Range	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	3	3	2	2	2	2	1	1	
Sunshine Coast	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	3	3	3	3	2	2	1	0	0	
Lower Mainland	2	2	2	2	1	1	1	1	1	1	1	2	3	3	3	3	3	3	3	2	2	1	0	0	
Central Coast	2	2	2	2	2	2	1	1	1	1	2	3	3	3	3	3	3	3	2	2	3	0	0	0	
West Vancouver Island	1	1	2	2	1	1	0	0	1	1	2	3	4	4	4	5	5	4	4	4	4	2	1	1	
East Vancouver Island	1	1	2	2	2	2	1	1	2	2	3	4	4	4	4	5	5	4	4	4	4	3	2	2	
Haida Gwaii	2	2	2	2	2	2	0	0	0	0	1	1	2	2	2	3	4	4	3	3	3	0	0	0	

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2025 Drought Outlook

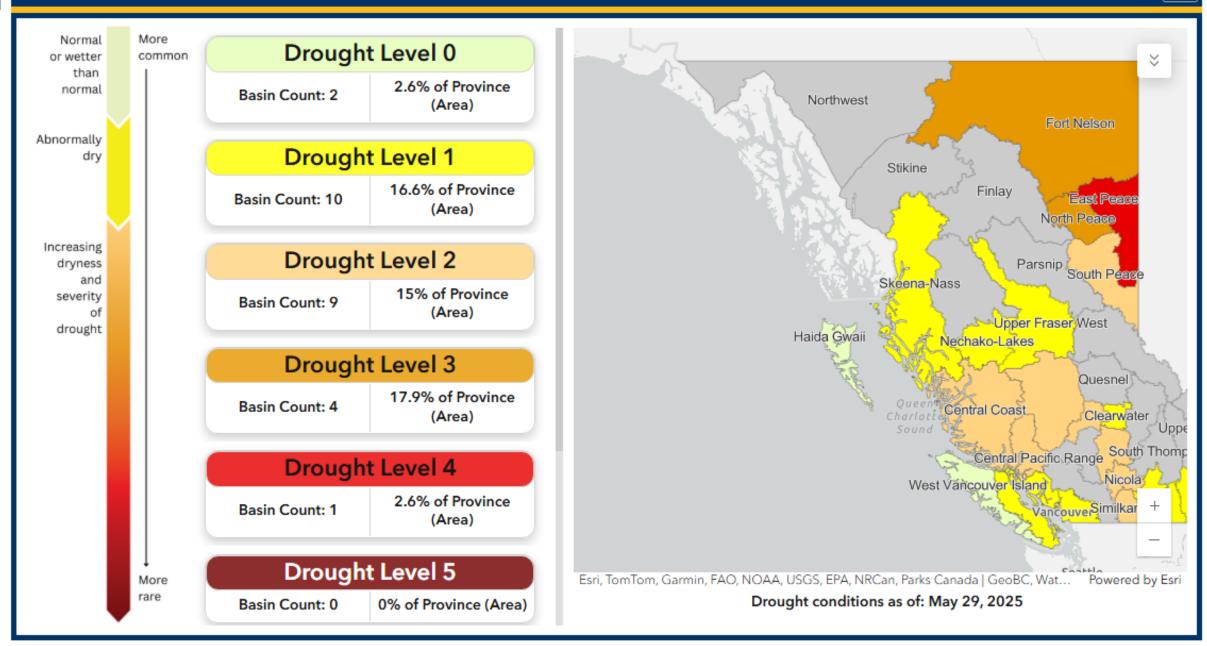
Intermittent dugout filling from lack of snow melt

• Early freshet

- Snow in low elevation areas melted in April, some remaining in mountains
- April 1st snowpack indicators suggest drought conditions may persist:
 - Liard- 84% of normal (16% less than a normal year)
 - Peace- 75% of normal
- Lack of spring precipitation
- We are preparing for an elevated risk of drought again



British Columbia Provincial Drought Map



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Drought and Water Management Actions

Mitigation

- Ongoing monitoring and analysis.
- Regulatory action on unauthorized water use.

- **Preparedness**
- Early communications with licensees on water conservation.
- Track drinking water scarcity vulnerability.
- Monitor snowpack conditions.

Response

- Monitor local conditions.
 2x/month
- BCER Suspension
 Directive
- Share information via Drought Portal and media.
- Temporary protection orders as a last resort.

Recovery

- Post-season review on lessons learned.
- Enhance tools for better situational awareness.
- Develop policy and planning to address short- and long-term impacts.



Working Together



Threats at top of mind

- Community Water Supply
- Power Production
- Livestock
- Aquatic ecosystem health





Shared responsibility

- Local, regional, Indigenous, provincial, federal governments.
- Water suppliers, water licensees.
- Public.
- Water conservation and risk assessment is the responsibility of all water users.



Provincial action

- Working with federal and First Nations partners to reduce risks to fish during drought.
- Early communications on actions water users can take to prepare for drought.
- Monitoring of conditions and impacts to inform risk.

Drought Impacts



Industry

- Loss of water for hydropower, oil and gas production, and wastewater treatment.
- Impacts on tourism, including for recreational activities.
- Impacts vegetation growth and timber supply.



Agriculture

- Loss of water for milking/livestock watering.
- Loss of water for forage irrigation.
- Loss of water for crop/food production.



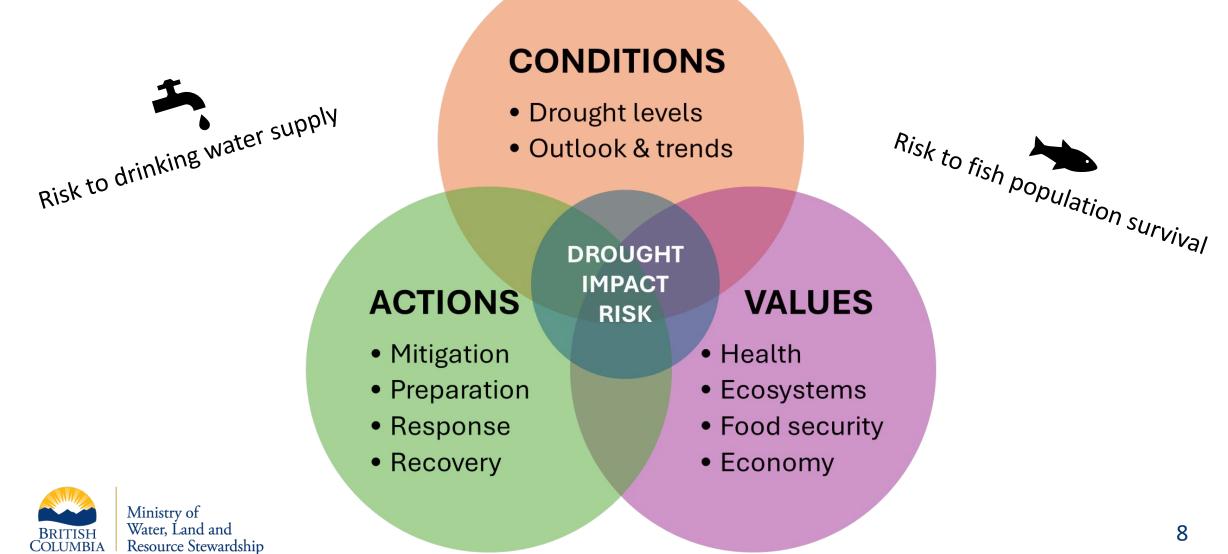
Community

- Loss of water for drinking and sanitation.
- Increased concentration of contaminants.
- Loss of water supply for essential services (fire suppression, water supply system function, etc.).

Environmental

- Loss of stream flows to support fish populations.
- Loss of water to support healthy ecosystem function.
- Loss of water supply to meet First Nations cultural needs.

Drought Monitoring





Ministry of Water, Land and Resource Stewardship

Thank You!

gov.bc.ca/drought

droughtportal.gov.bc.ca

