

BOUNDARY REGION DROUGHT CONDITIONS UPDATE

July 14, 2021

RDKB Watershed Service – Kristina Anderson



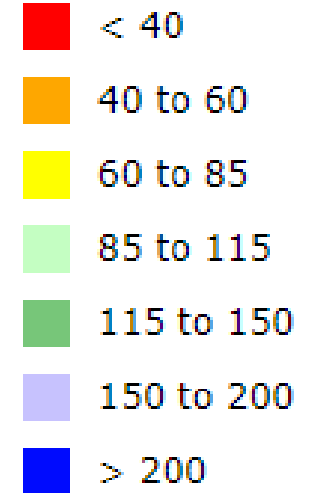
Regional District of
Kootenay Boundary

CURRENT CONDITIONS

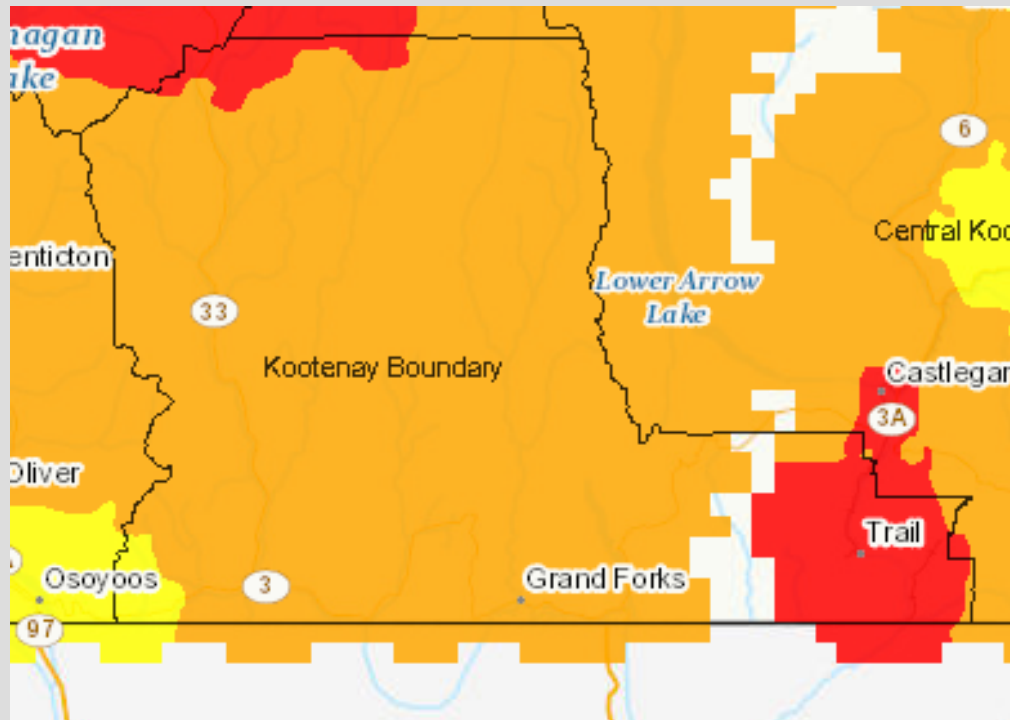
AGROCLIMATE INTERACTIVE MAPS

WWW.AGR.GC.CA/ATLAS/AGCLIMATE?LANG=EN

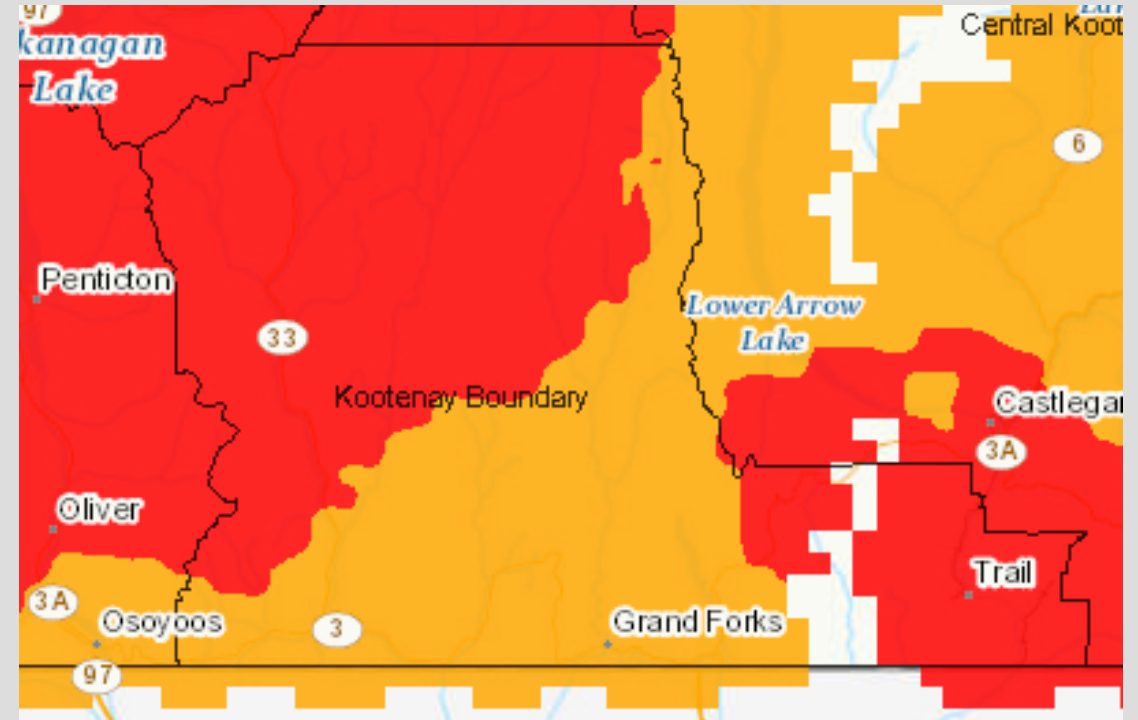
BASED ON JULY 11, 2021



PRECIPITATION
PERCENT OF AVERAGE 30 DAYS



PRECIPITATION
PERCENT OF AVERAGE 60 DAYS



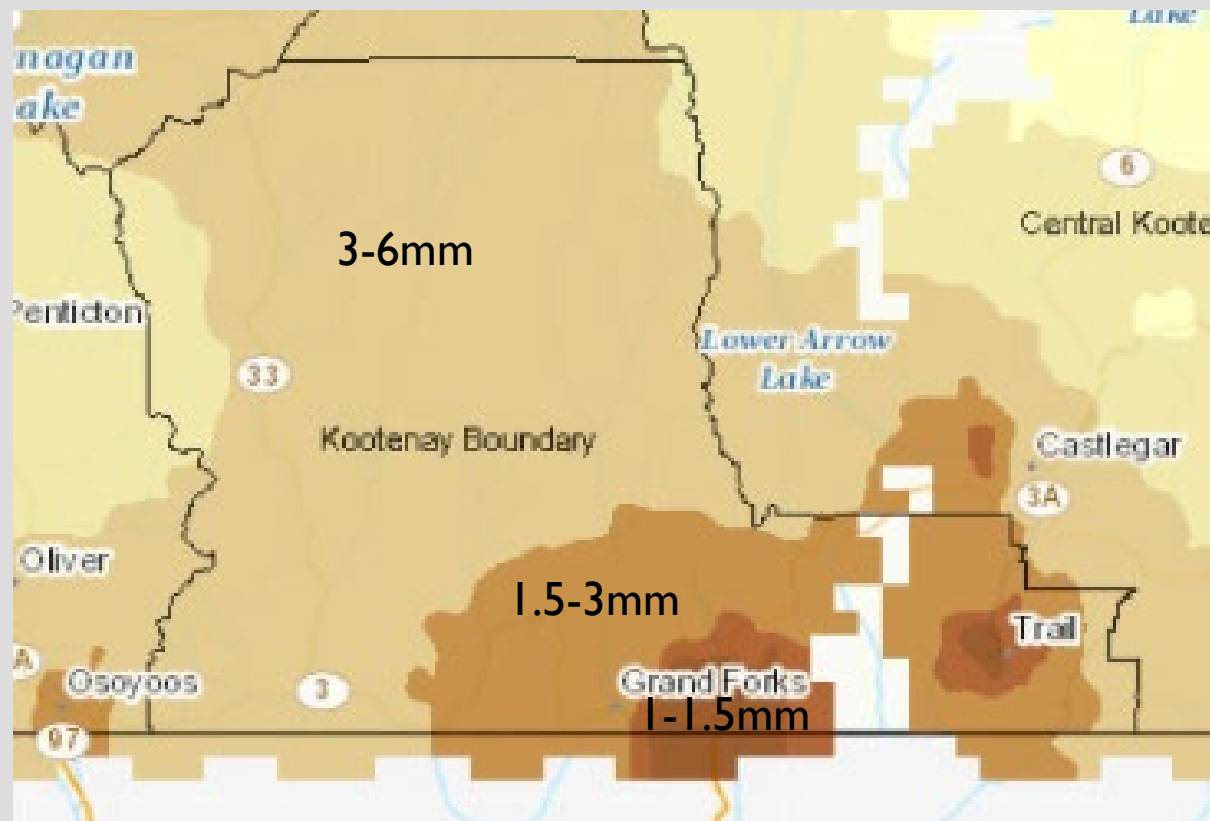
AGROCLIMATE INTERACTIVE MAPS

WWW.AGR.GC.CA/ATLAS/AGCLIMATE?LANG=EN

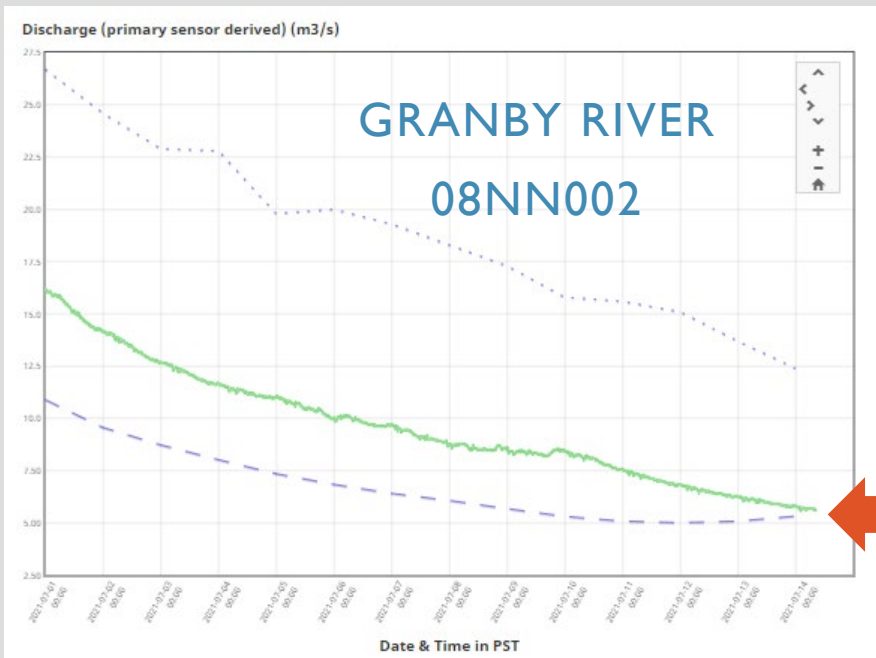
BASED ON JULY 11, 2021

PRECIPITATION

ACCUMULATED – PAST 14 DAYS

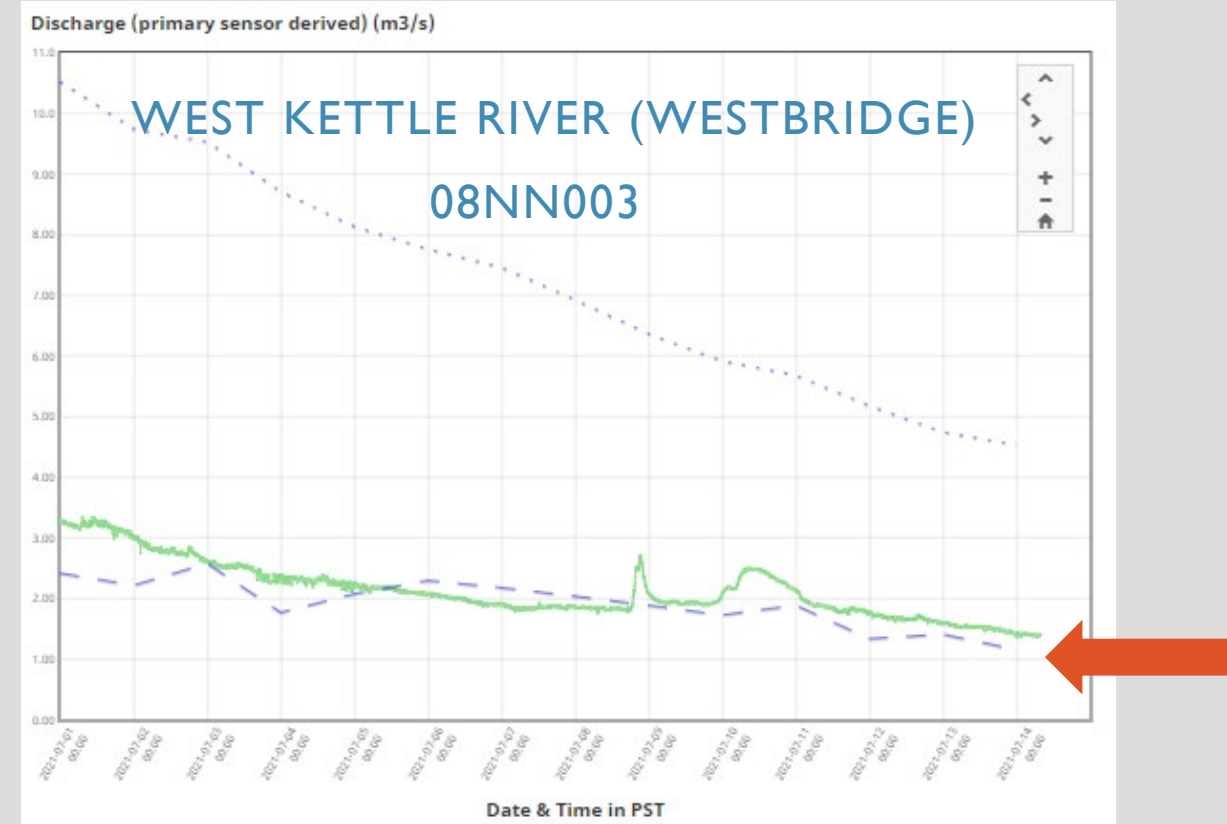
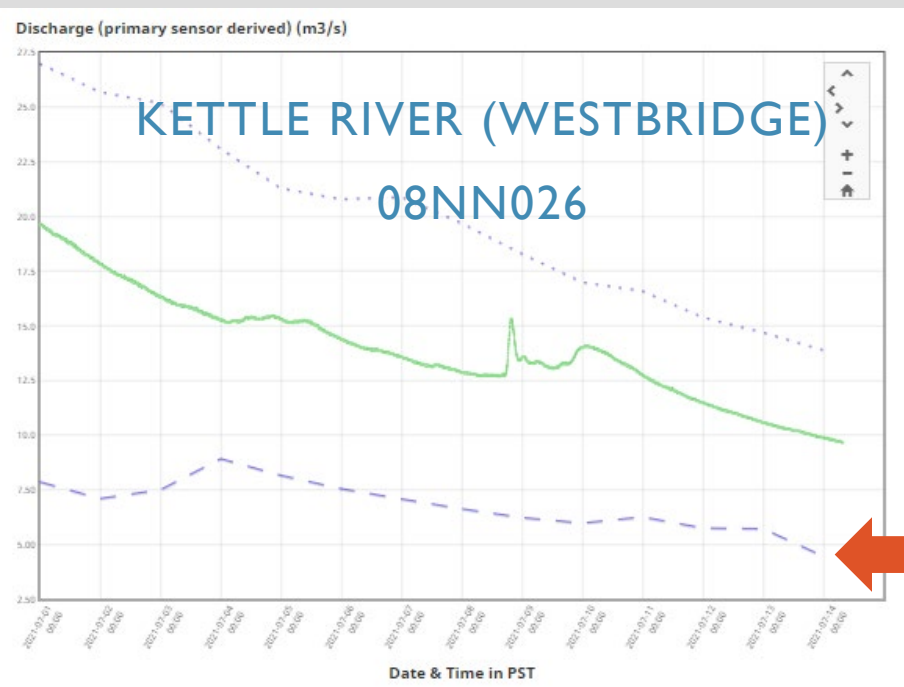


SURFACE WATER: WATER SURVEY OF CANADA



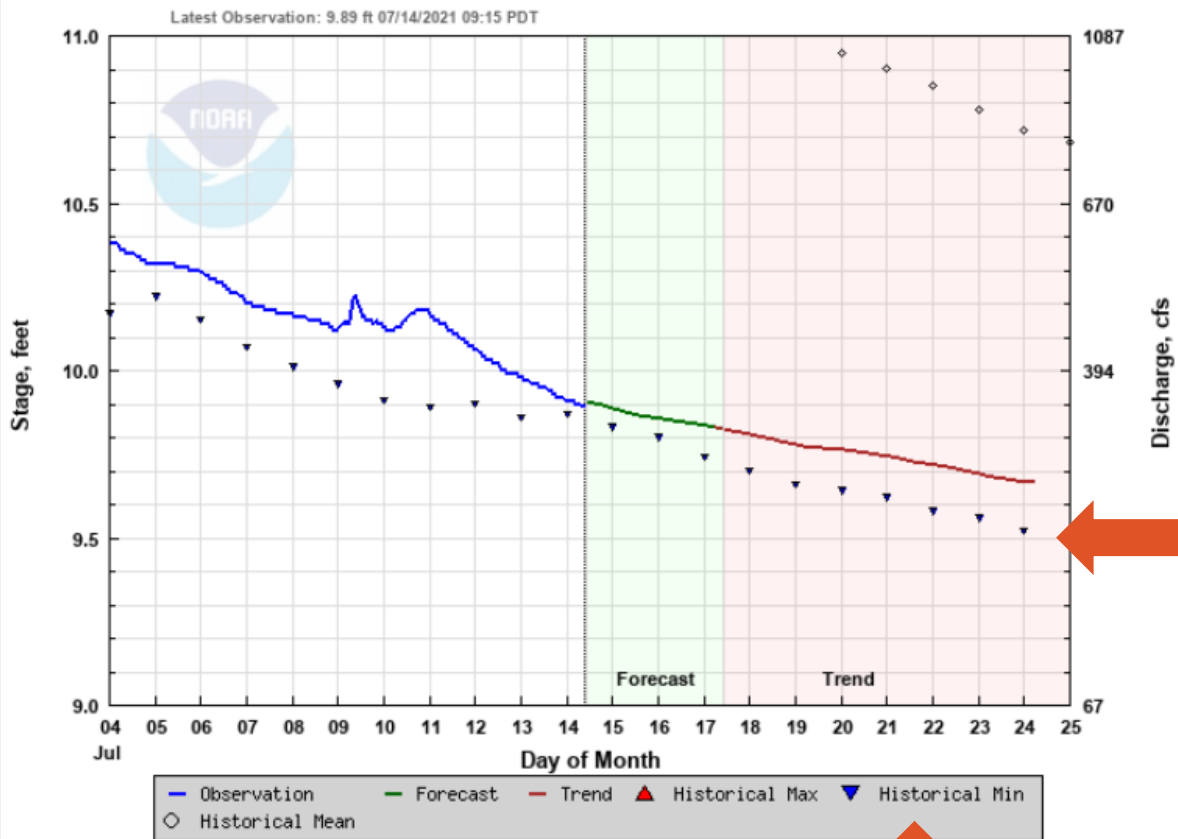
Legend

- Discharge (primary sensor derived) - Provisional
- Discharge (primary sensor derived) - Measurements
- Discharge (primary sensor derived) - Median
- Discharge (primary sensor derived) - Lower quartile
- Discharge (primary sensor derived) - Minimum

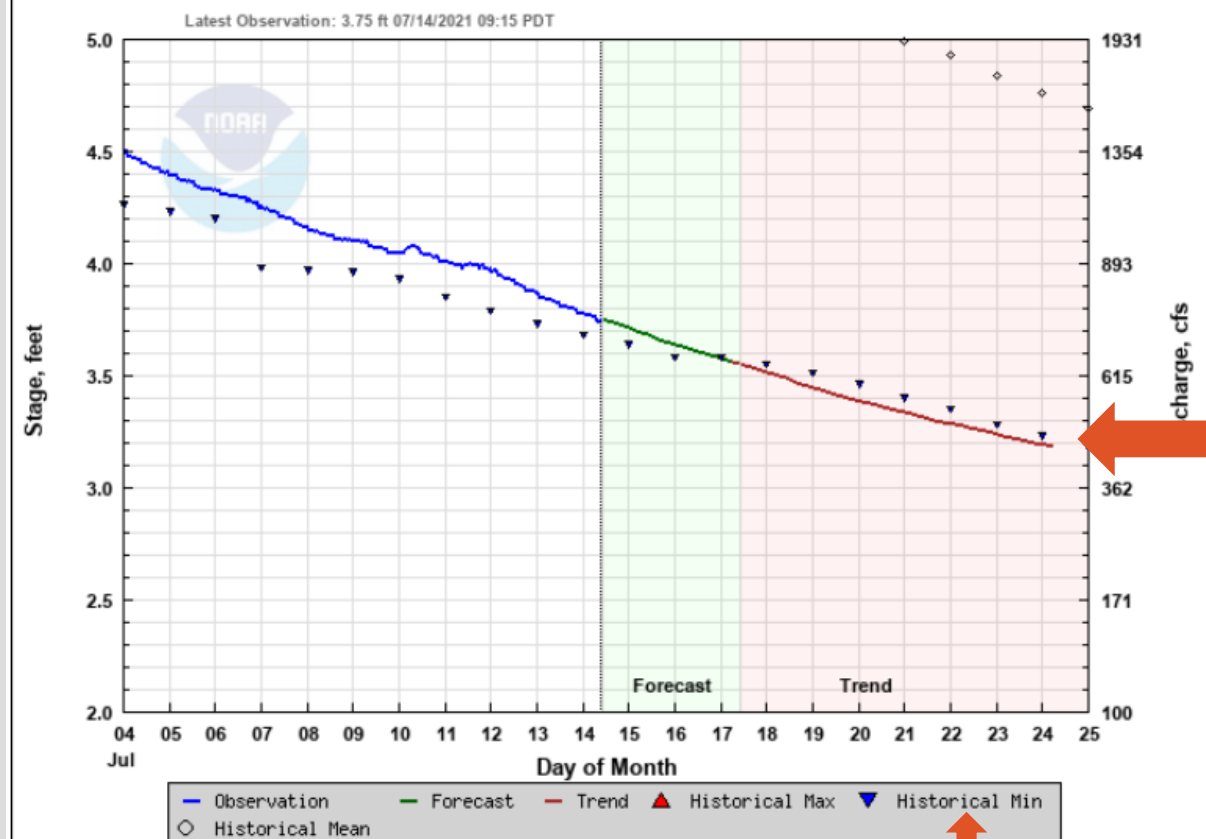


SURFACE WATER: NORTHWEST RIVER FORECAST CENTRE (USA)

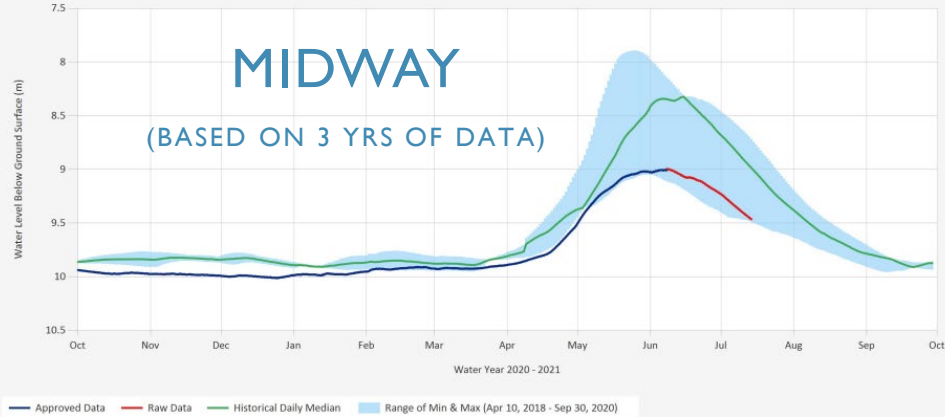
KETTLE - NEAR FERRY (FRYW1)



KETTLE - AT LAURIER (LAUW1)



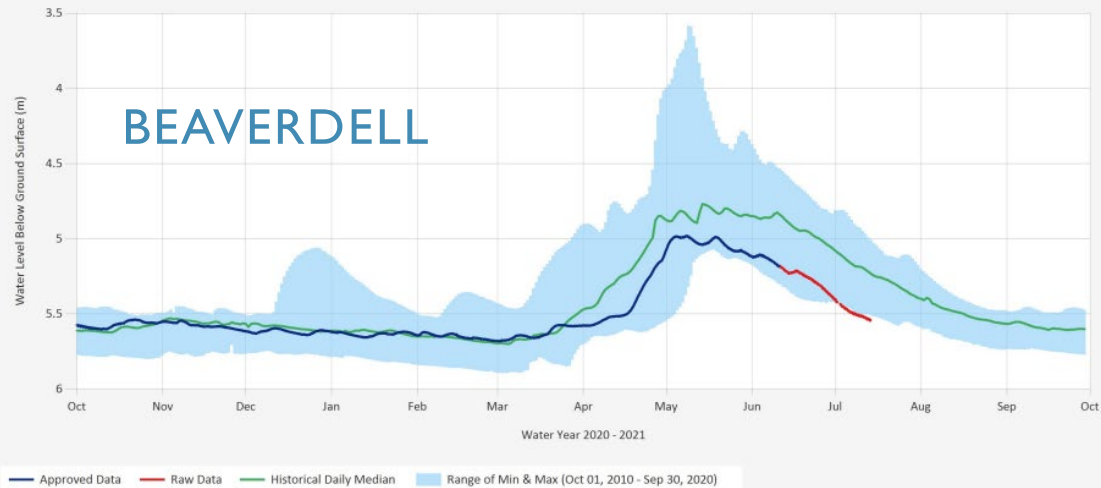
Source Data: SGWLWorking@OW444
Location: OBS WELL 444 - MIDWAY (W of CLEGHORN ST. AND PALMERSTON AVE, Latitude: 49.010134, Longitude: -118.781217, Elevation: : 580.28 m



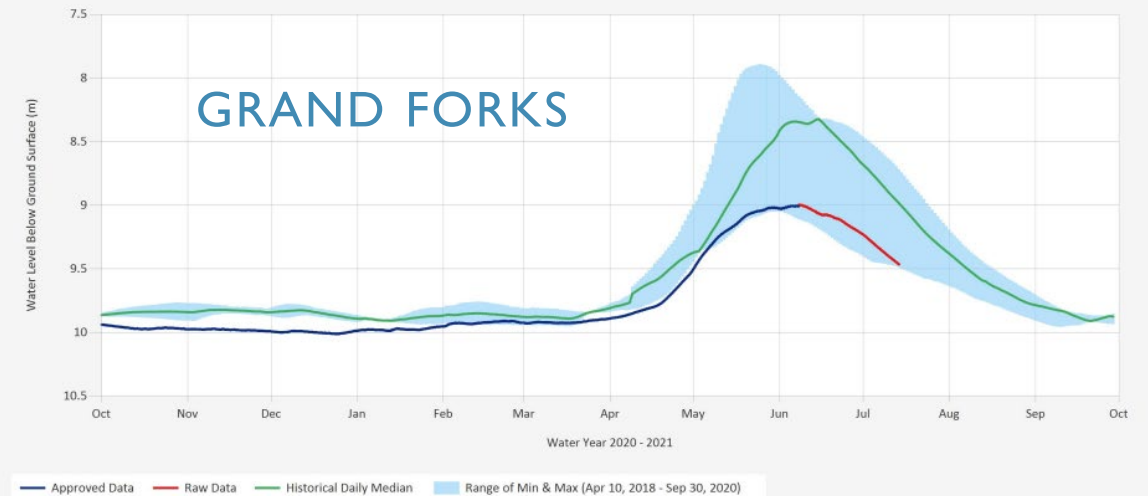
GROUNDWATER: BC OBSERVATION WELLS

BASED ON LAST 10 YEARS OF DATA:
WATER LEVELS LOW FOR THIS TIME OF YEAR,
BELOW **25TH PERCENTILE OF NORMAL**

Source Data: SGWLWorking@OW306
Location: OBS WELL 306 - BEAVERDELL (HWY 33 & 42ND AVE.), Latitude: 49.438271, Longitude: -119.086497, Elevation: : 784.715 m



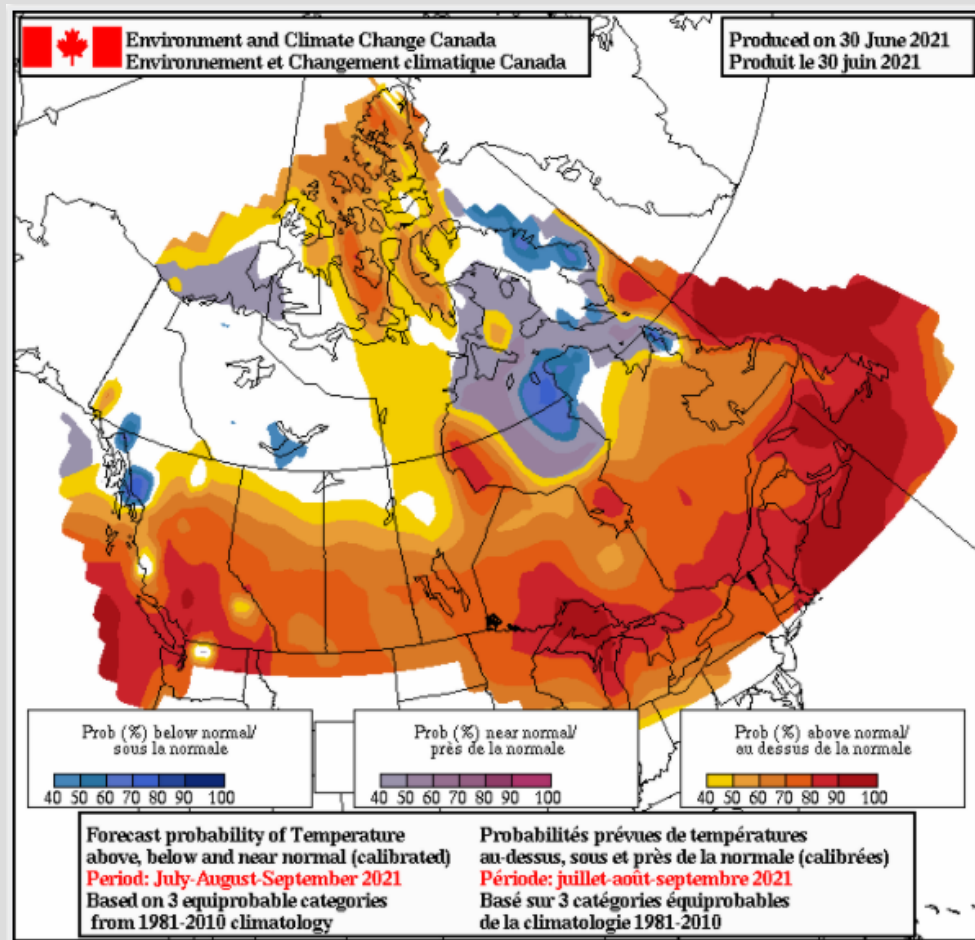
Source Data: SGWLWorking@OW444
Location: OBS WELL 444 - MIDWAY (W of CLEGHORN ST. AND PALMERSTON AVE, Latitude: 49.010134, Longitude: -118.781217, Elevation: : 580.28 m



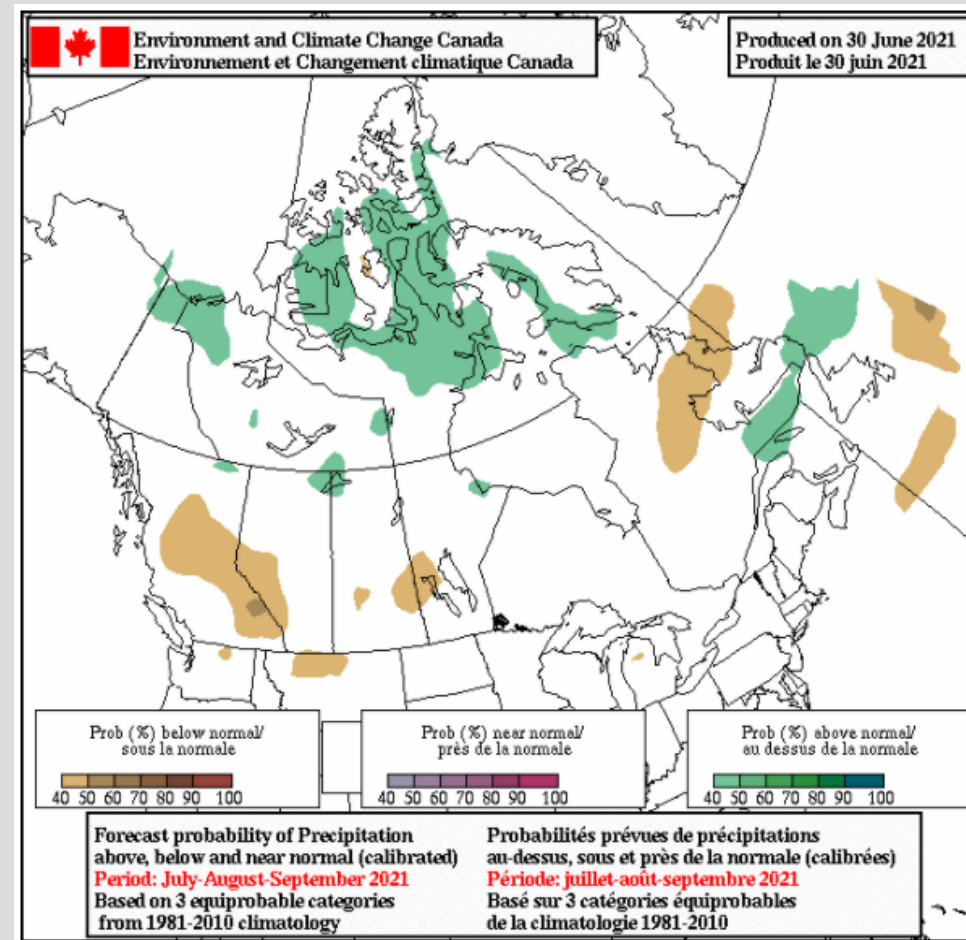
PROBABILISTIC FORECASTS – JULY, AUGUST, SEPTEMBER

PRODUCED JUNE 30, 2021
WEATHER.GC.CA/SAISONS/PROB_E.HTML

TEMPERATURE



PRECIPITATION

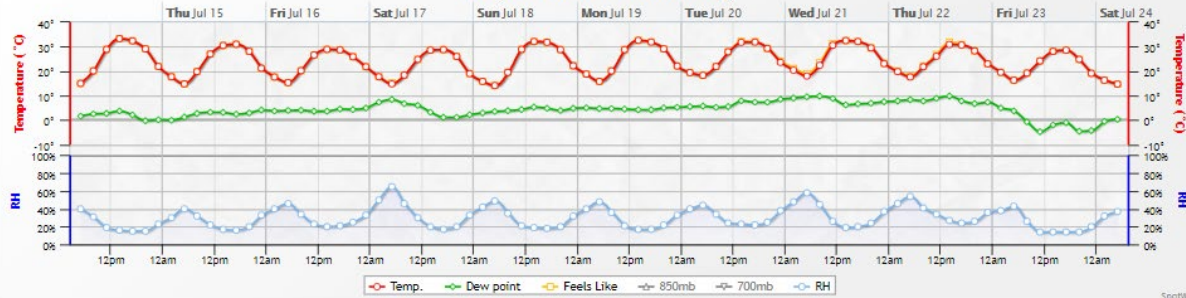


GDPS (GEM-GLB) forecast for Lat:49.04459, Lon:-118.47949

Model date: 5:00 am, Wed Jul 14, 2021 (PDT, UTC-7 hrs), Model elevation: 1098m / 3603ft, Land Proportion: 100%

SpotWx

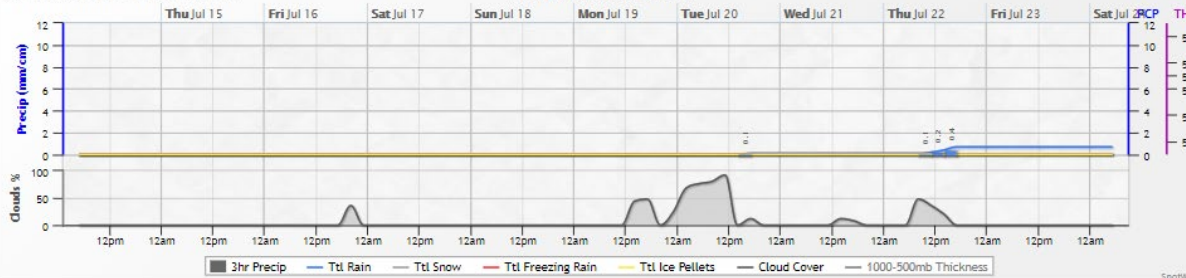
Temperature and Relative Humidity



SpotWx

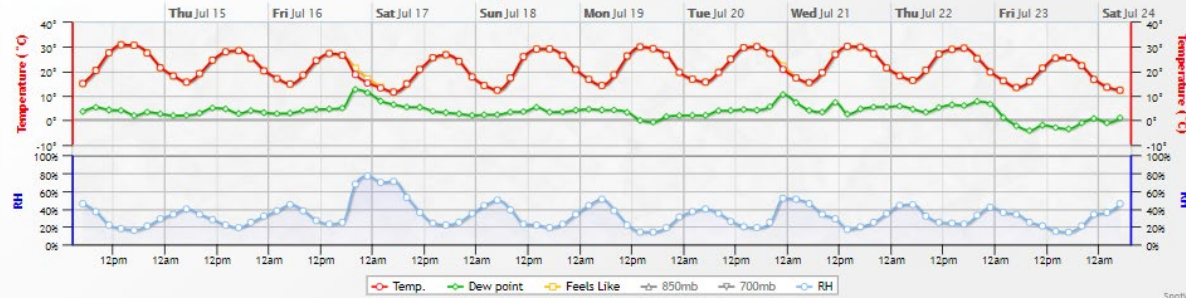
Rain, freezing rain, and ice pellets are measured in mm. Snow is in cm.
Snow is assumed to have a 10:1 snow to liquid ratio.

Precipitation and Clouds



SpotWx

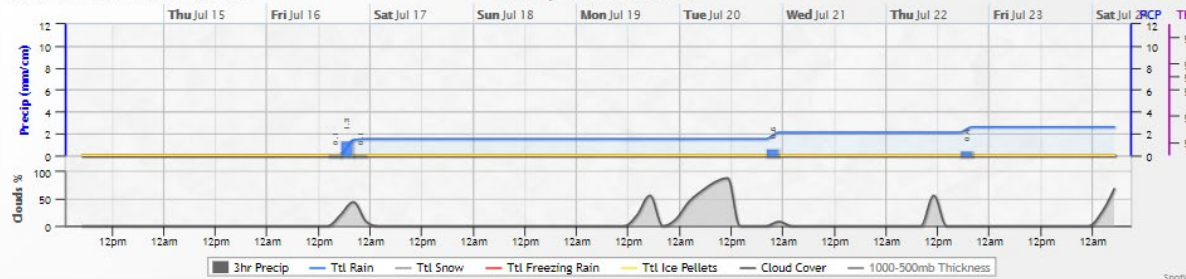
Temperature and Relative Humidity



SpotWx

Rain, freezing rain, and ice pellets are measured in mm. Snow is in cm.
Snow is assumed to have a 10:1 snow to liquid ratio.

Precipitation and Clouds



SpotWx

LOCATION: N OF GRAND FORKS

LOCATION: BEAVERDELL

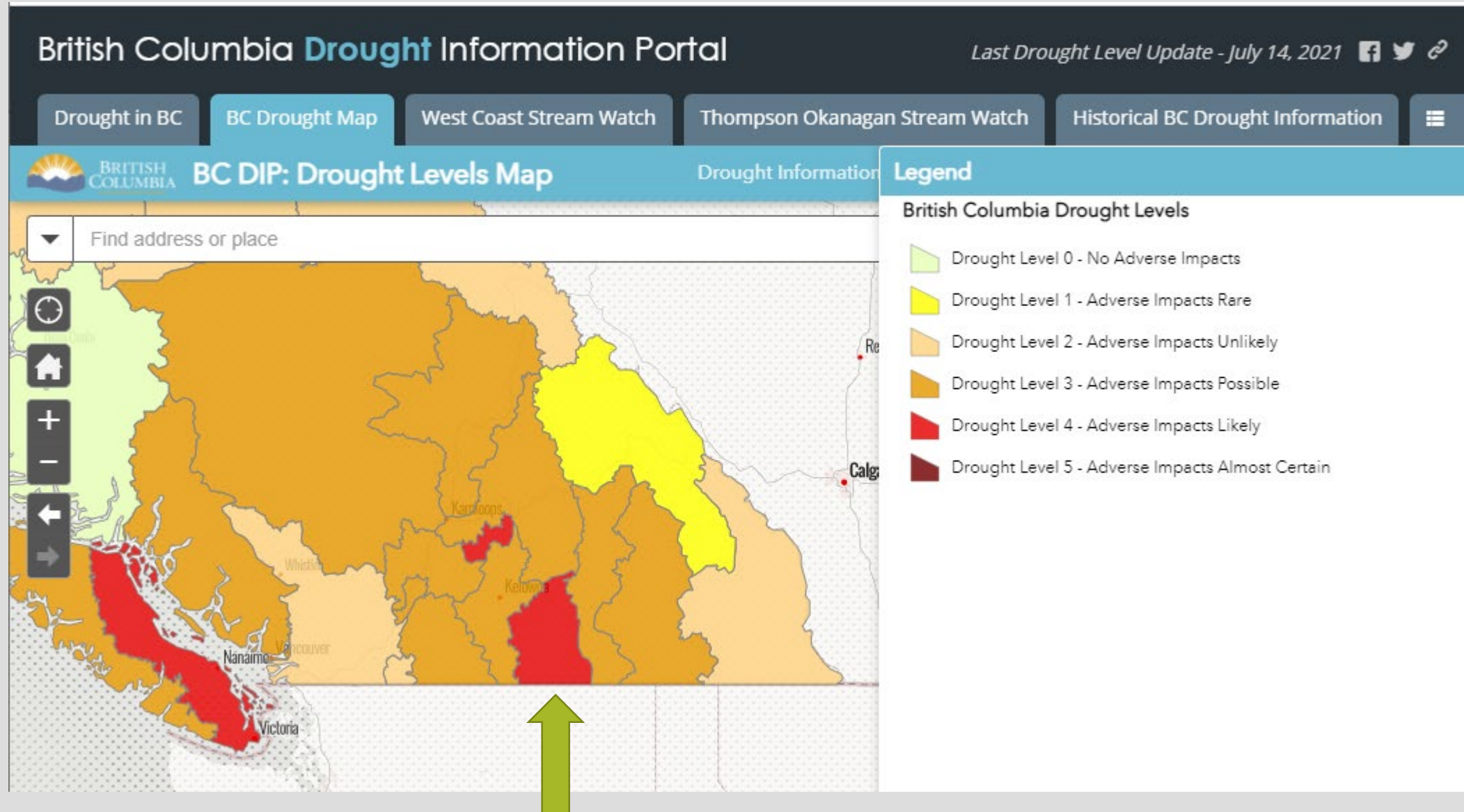
<https://spotwx.com/>

PROVINCIAL CLASSIFICATION



Regional District of
Kootenay Boundary

BC DROUGHT INFORMATION PORTAL

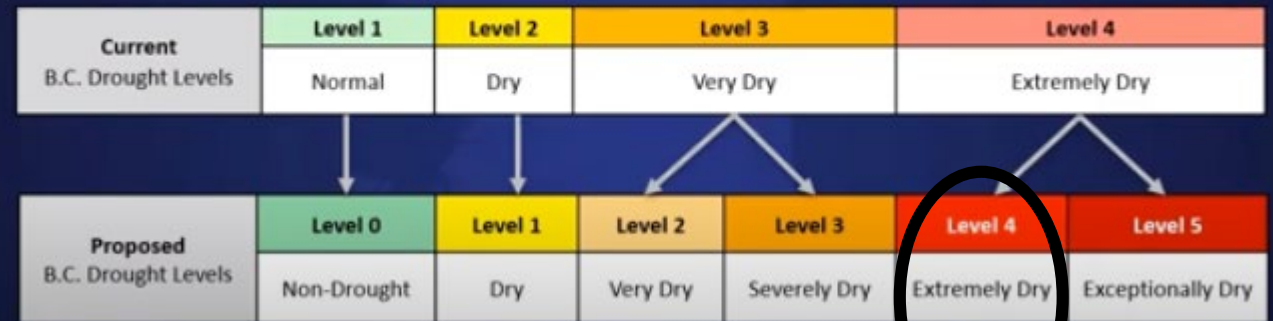


CHANGES TO THE PROVINCIAL DROUGHT CLASSIFICATION LEVELS

PRE 2021

Level	Conditions	Significance	Objective
1 (Green)	Normal Conditions	There is sufficient water to meet human and ecosystem needs	Preparedness
2 (Yellow)	Dry Conditions	First indications of a potential water supply problem	Voluntary conservation
3 (Orange)	Very Dry Conditions	Potentially serious ecosystem or socio-economic impacts are possible	Voluntary conservation and restrictions
4 (Red)	Extremely Dry Conditions	Water supply insufficient to meet socio-economic and ecosystem needs	Voluntary conservation, restrictions and regulatory action as necessary

Existing vs. Proposed Drought Levels Comparison

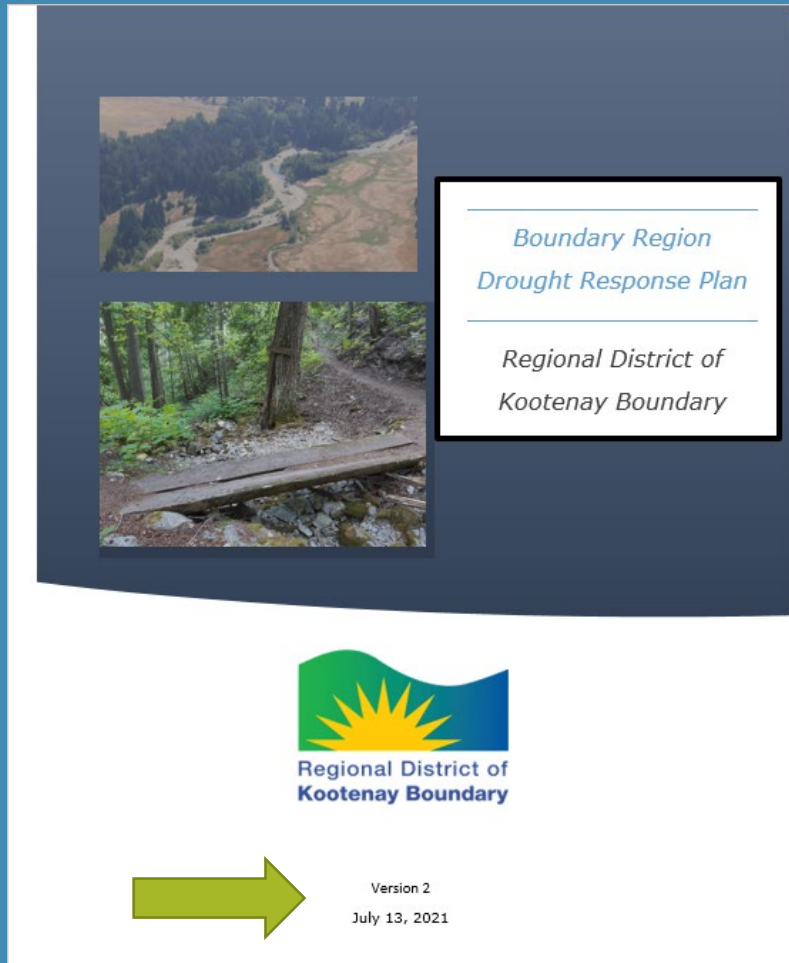


NEW CLASSIFICATION SYSTEM

Level	Conditions	Impacts	General Response Measures
0	Non-Drought	There is sufficient water to meet socio-economic and ecosystem needs	Preparedness
1	Dry	Adverse impacts to socio-economic or ecosystem values are rare	Conservation
2	Very Dry	Adverse impacts to socio-economic or ecosystem values are unlikely	Conservation Local water restrictions where appropriate
3	Severely Dry	Adverse impacts to socio-economic or ecosystem values are possible	Conservation Local water restrictions likely
4	Extremely Dry	Adverse impacts to socio-economic or ecosystem values are likely	Conservation and local water restrictions Regulatory action possible
5	Exceptionally Dry	Adverse impacts to socio-economic or ecosystem values are almost certain	Conservation and local water restrictions Regulatory action likely Possible emergency response



WHAT DOES THIS MEAN?



Watershed Plans

[Boundary Region Drought Response Plan \(2021\)](#)

[Kettle River Watershed Management Plan](#)

[Kettle River Watershed Drought Management Plan](#)

[Boundary Region Drought Response Plan](#)

Excerpts from Version 2 of the RDKB Drought Response Plan

Level 4 – Extremely Dry: Conservation with voluntary 50% reduction in total water withdrawals

Specifically for hydraulically connected groundwater wells and surface water users. Water users all need to work together to minimize water use so our community and ecosystem needs are met.

- Voluntary 50% reduction of all water use
- Work to eliminate all non-essential water use, such as:
 - Fix leaking lines and leaky taps
 - Turn off water when brushing teeth
 - No outdoor vehicle washing or filling swimming pools
 - No power washing the driveway or sidewalks
- Watering between dusk to dawn (8 pm to 7 am)
- Focus watering on trees, perennials, high valued plants

Prepare for deteriorating streamflow conditions.



DEPARTMENTS 

CONTACT 

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Environment ▼

Regional Government ▼

RDKB drought condition and information updates:

- rdkb.com/Environment/Watershed-Planning
- jointheconversation.rdkb.com/boundary-watershed



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