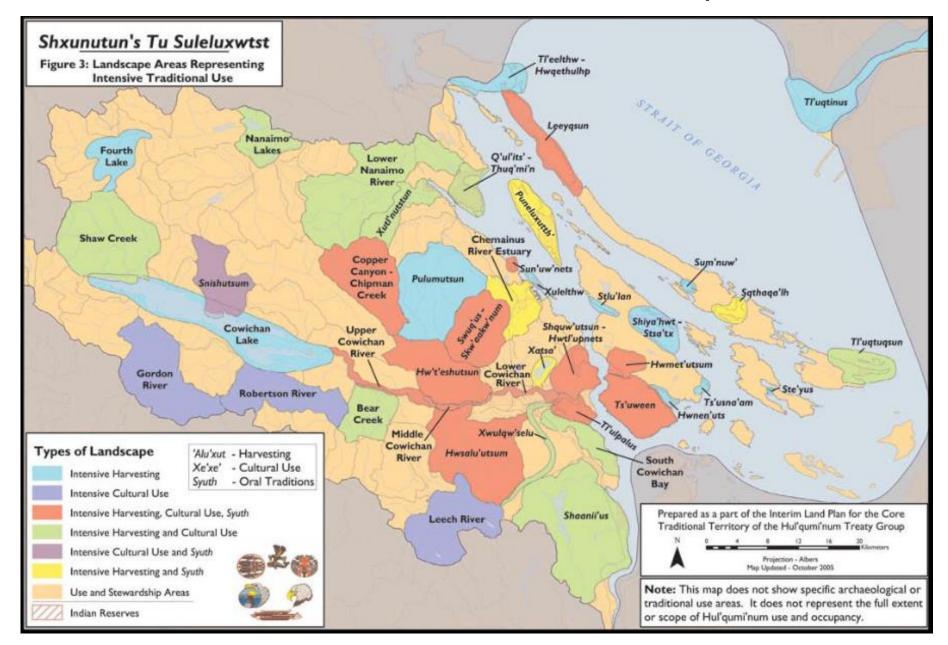


Koksilah
Ecosystem-Based
Assessment:
Ecological Character &
Condition

Presentation to
Cowichan Watershed Board
July 29, 2019

Emily Doyle-Yamaguchi, FIT Heather Pritchard, RPF

Quw'utsun' Traditional Territory





Water levels in the Koksilah River dropped to a critical point last summer (Citizen file)

Guest column: The Koksilah River is a canary in the coal mine

River flows dropped so low officials preparing to issue Critical Environmental Flow Protection Order

Sep. 25, 2018 3:02 p.m. / COLUMNISTS / OPINION

Who commissioned this watershed assessment and why?

- Community-driven
- Water concerns
- Led by Cowichan Station Area Association
- Local government land use planning
- Information for community

Financially supported by:

- Real Estate Foundation of BC
- Shawnigan Basin Society
- CVRD Area Director contributions: B, E, D, C
- Sidney Anglers
- HUB Film Club
- Private donors

Character







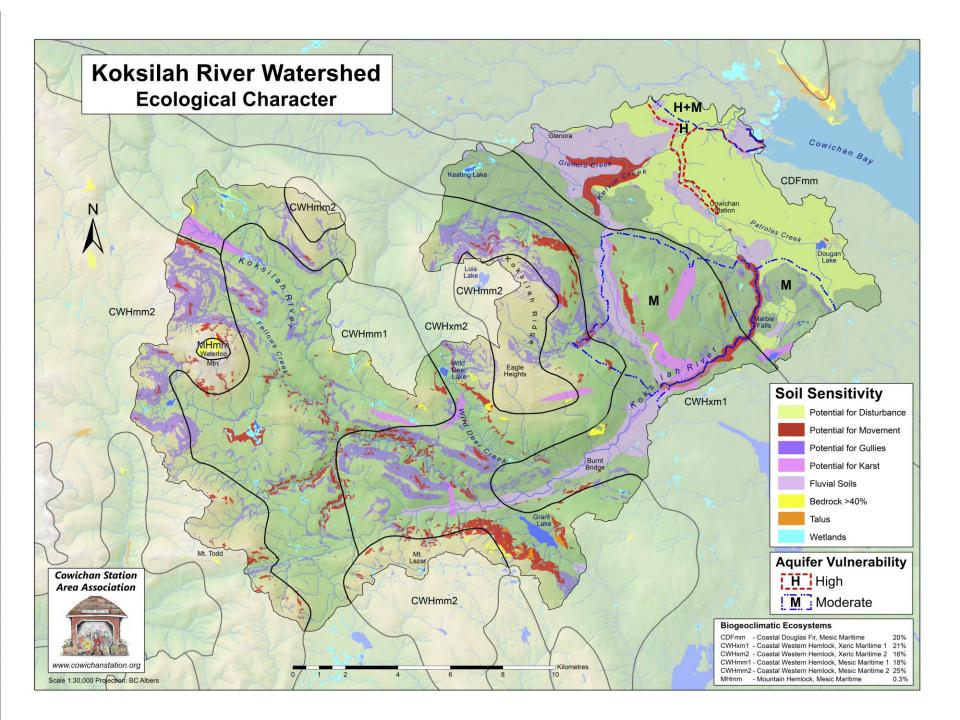
Character

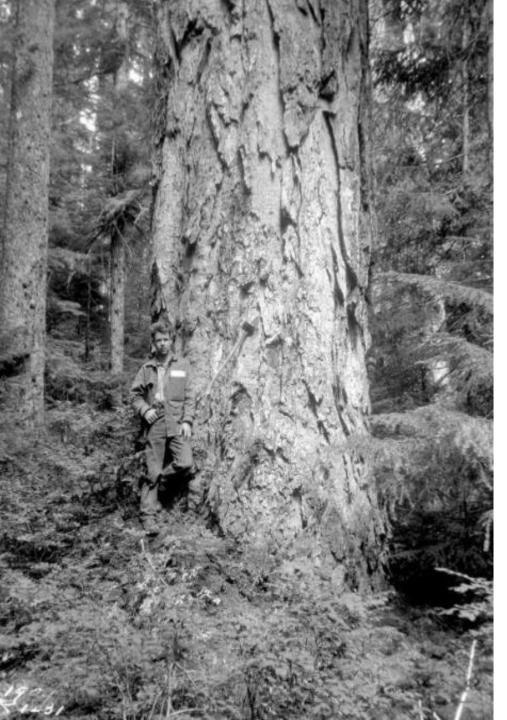
- Traditional land stewardship
- Natural disturbances
- Climate
- Hydrology
- Soils
- Terrain
- Wildlife
- Plants
- Fish





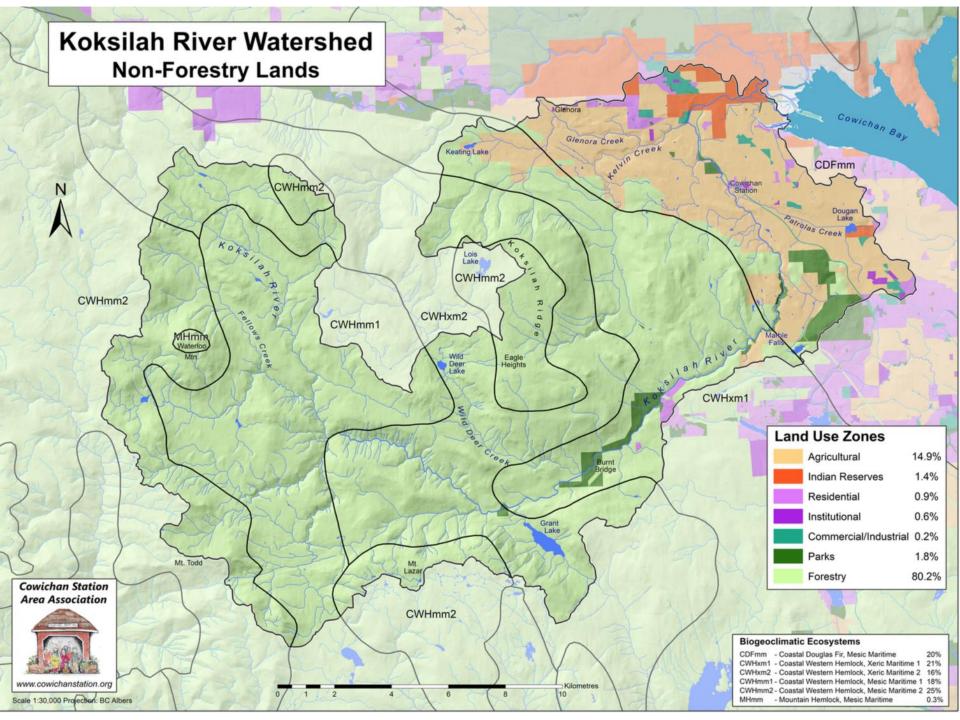


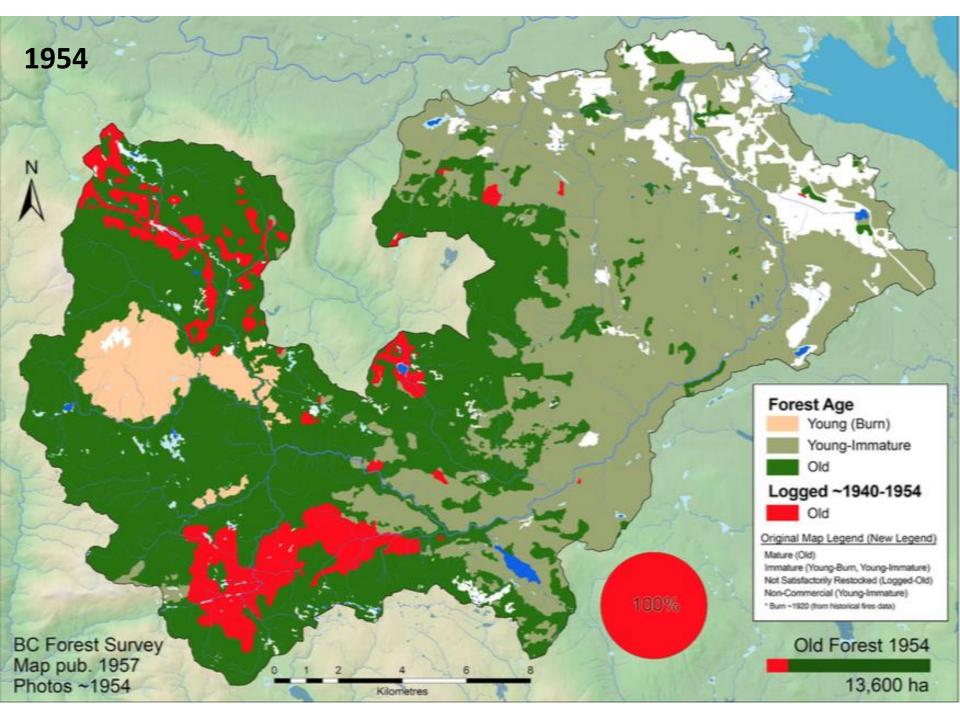


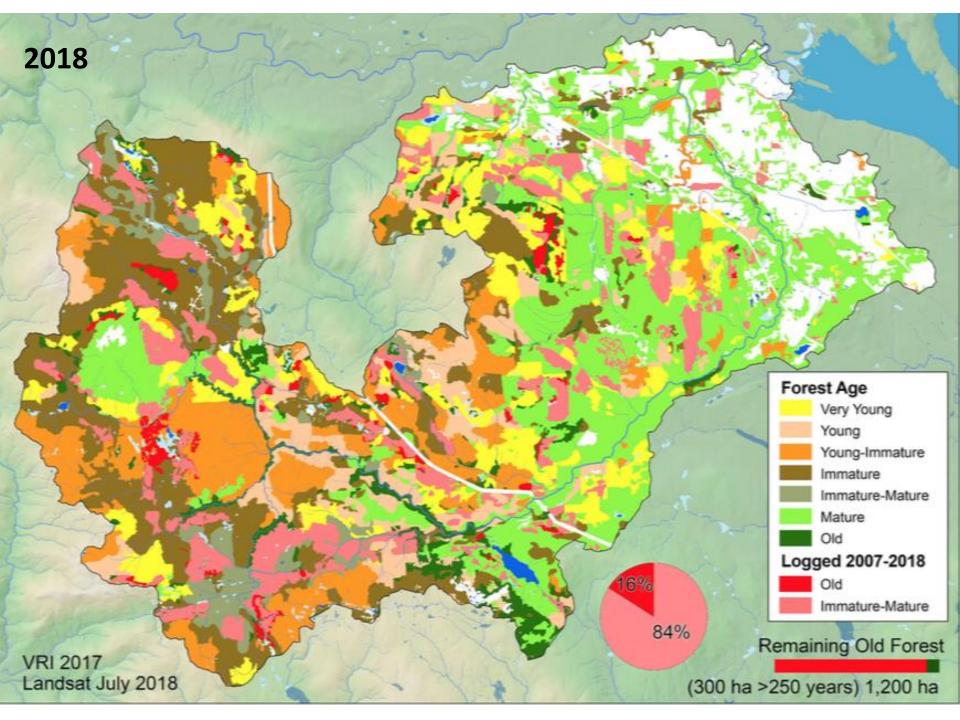


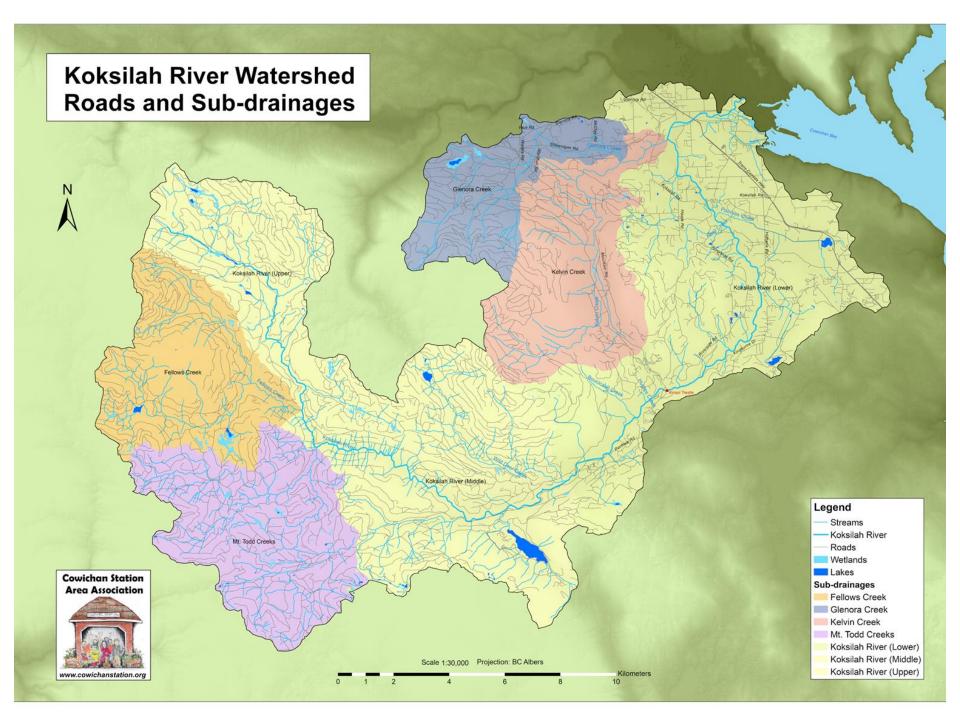
Settler Influences

- Communities
- Logging
- Farming
- Water extraction
- Estuary development
- Roads
- ...











Condition

- Low flows
- Water quality
- Pollution
- Flooding
- Declining fish populations
- Loss of habitats
- Invasive species
- ..







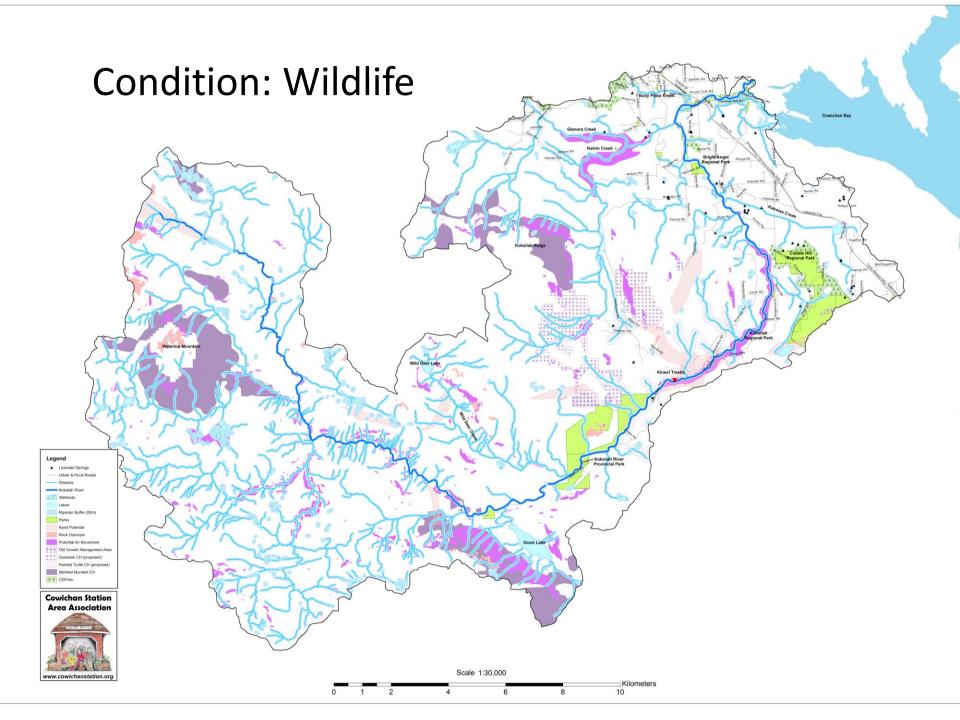
Water Quantity



 Summer low flow has been in general decline since about 1985 despite a long-term increase in annual precipitation

Factors:

- Changing climate
- Potential land-use factors
 - water withdrawals,
 - road density, and
 - forest management practices
- Highest licensed water demand when the low flows are under the most pressure



Next steps

