

Managing BC's Forest Carbon Value

Climate Solutions Section

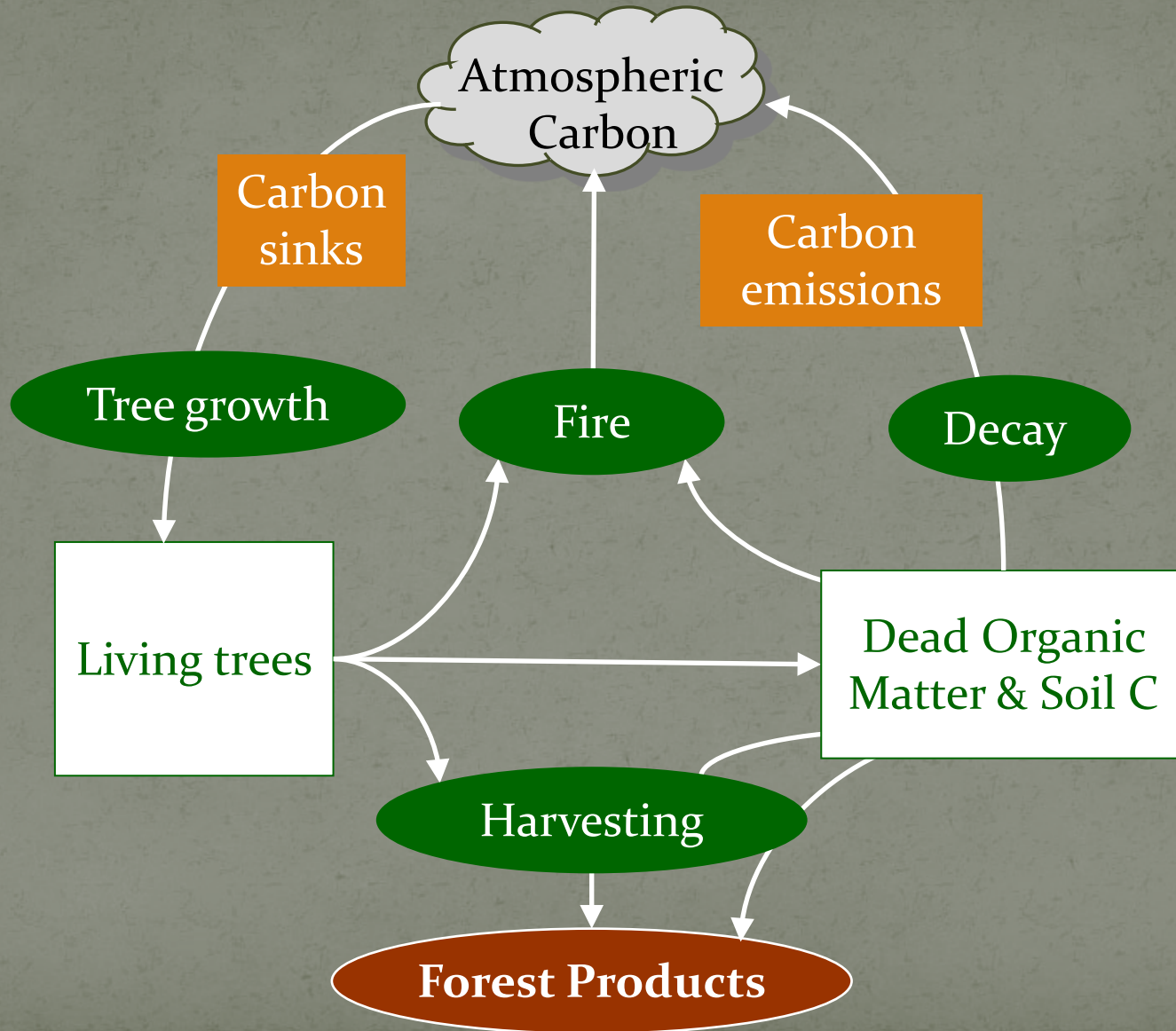
Competitiveness & Innovation Branch

Tenures, Competitiveness and Innovation Division

October 2015



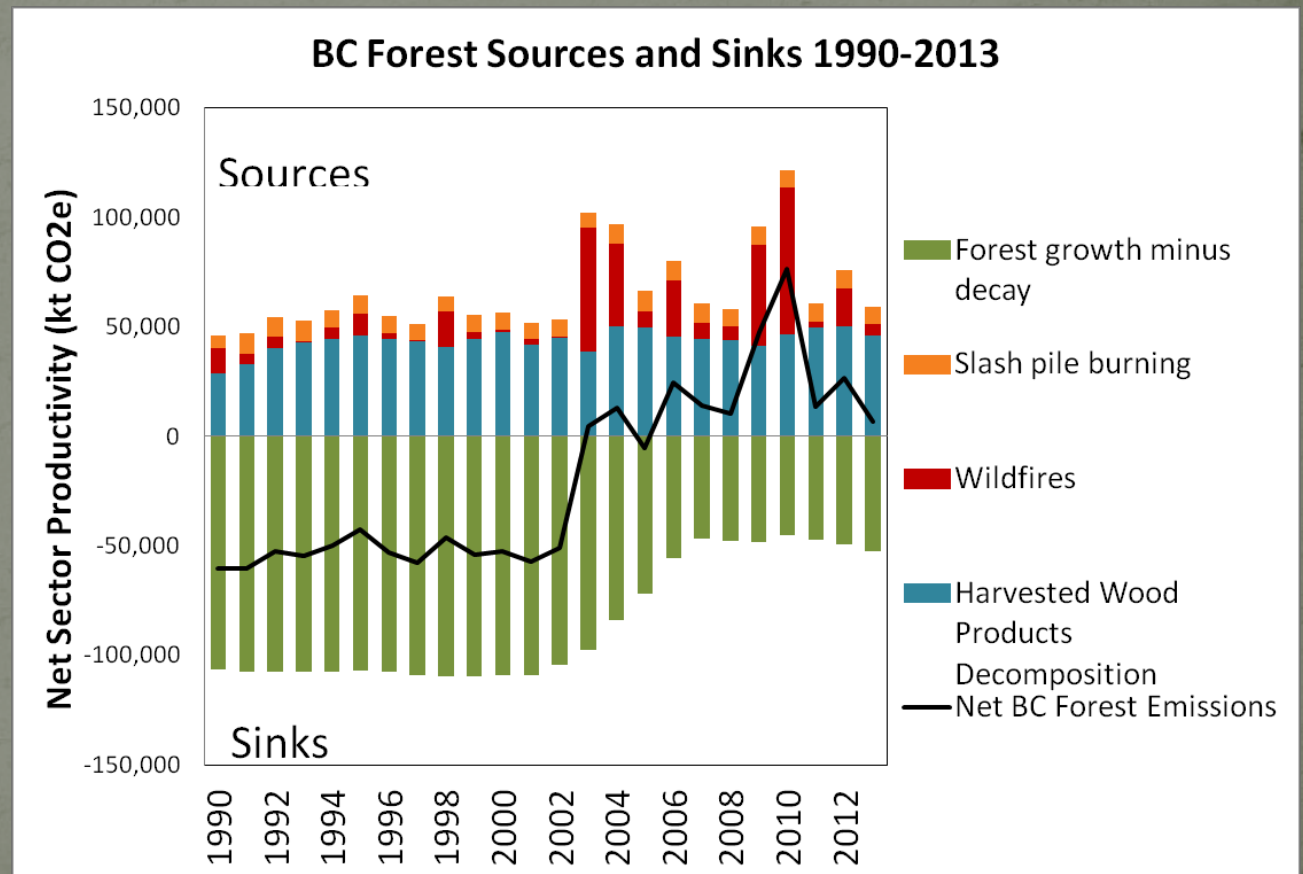
I. forest carbon science



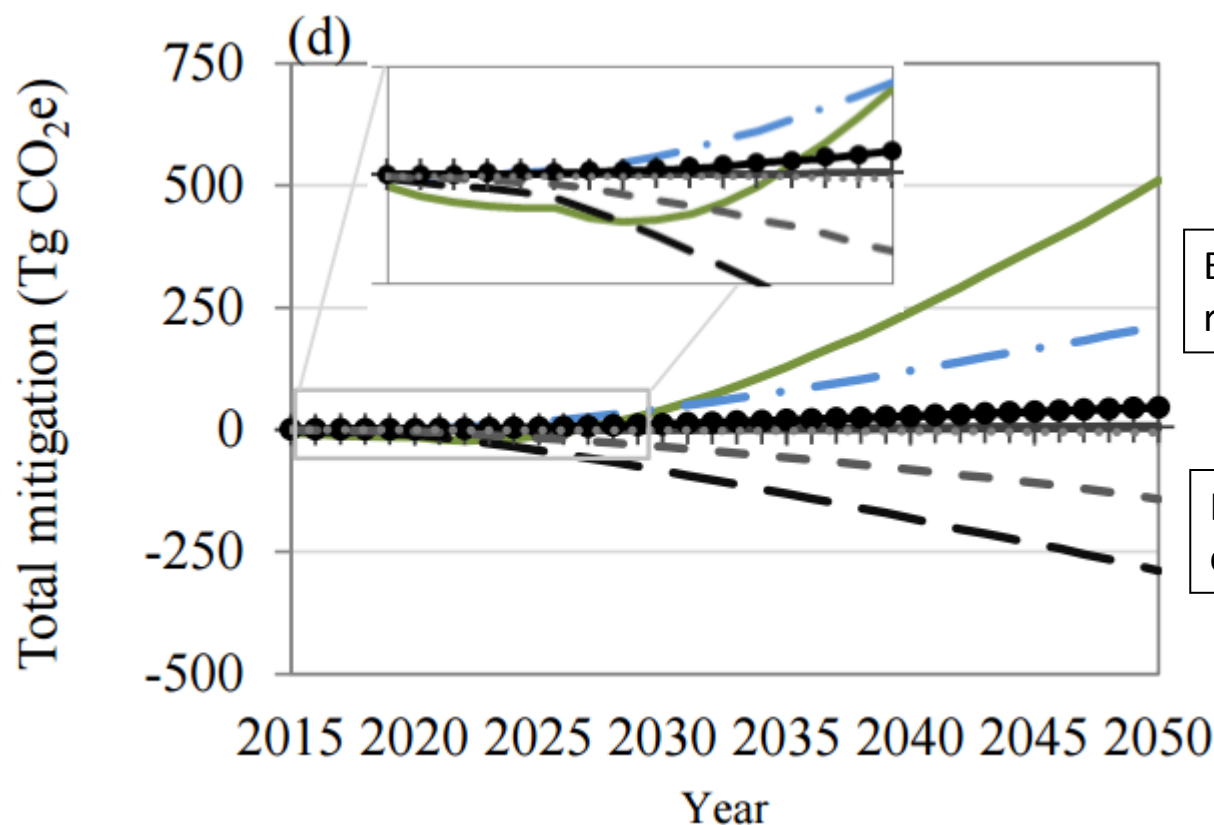
Forest Carbon Modelling

Estimate of net exchange of carbon dioxide between the atmosphere and BC's forest ecosystems.

Large opportunity for forest management to make a difference because of the scale of the resource.



II – Forest Carbon Management Practices



More efficient use of fibre had the greatest mitigation potential in the long run.

Cumulative climate change mitigation benefit or loss of six forest management options relative to business as usual. These results are national (Smyth et al. 2014).

- Better utilization
- - Harvest less
- + — Planting
- — Better growth
- - Bioenergy harvest
- - Bioenergy PCT

III – Forest Carbon Offset Project Development

- Terrestrial forest ‘carbon’ is already 100% managed and tenured by FLNR via existing policy.
 - The ‘carbon’ is the trees, roots and soil
 - We use science to integrate ‘carbon’ management into legislation to more clearly account for it
- Policy and authorizations development to address “intangible benefit” or value associated with sequestering or avoiding carbon emissions to the atmosphere.
 - In this context $C = \text{atmospheric benefit}$.
 - All carbon benefits are tracked and reported as tonnes CO₂e

$$1 \text{ m}^3 = 1 \text{ tonneCO}_2\text{e} = 1 \text{ offset} = \$ 7-25$$

“Intangible part”



BRITISH
COLUMBIA

Summary

- Continuous improvement model that relies on forest carbon science and research.
- Not a one-size fits all approach to forest carbon management. Varies according to geography, local business opportunities, scalability, and much more.
- Exciting new opportunities to address climate change while supporting the traditional forest sector.
- **Growing momentum to incorporate forest carbon in day-to-day decision making.**

Looking for more information?

- **Climate Mitigation Potential of BC Forests: Growing Carbon Sinks**

<https://www.for.gov.bc.ca/het/climate/carbon/ClimateMitigationPotentialofBritishColumbianForests.pdf>

- **Extension note 92: Forests in a carbon constrained world** <https://www.for.gov.bc.ca/hfd/pubs/Docs/En/En92.pdf>

Brendan Brabender

Policy Analyst

Technical Analyst

250.387.8359

Caren Dymond

Forest Carbon
Researcher

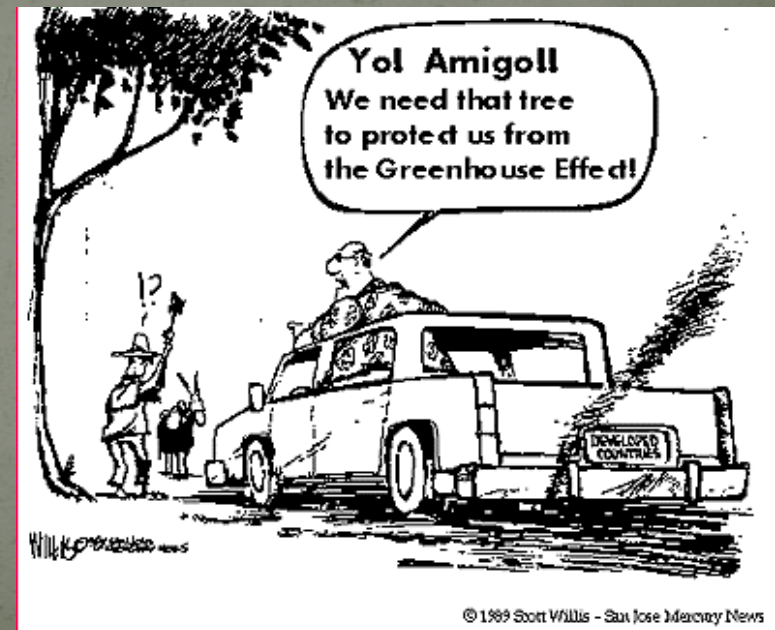
778.747.2727

Dennis Paradine
Manager

250.356.6230



BRITISH
COLUMBIA



© 1989 Scott Willis - San Jose Mercury News