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*Supplement of*

## **Contrasting conifer species productivity in relation to soil carbon, nitrogen and phosphorus stoichiometry of British Columbia perhumid rainforests**

**John Marty Kranabetter et al.**

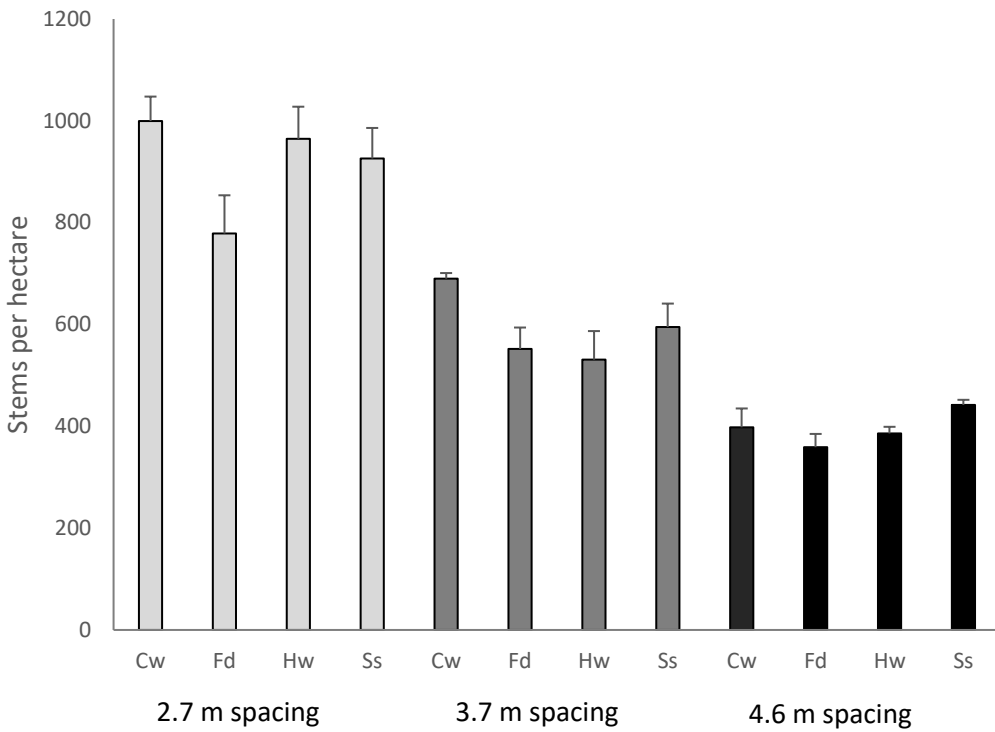
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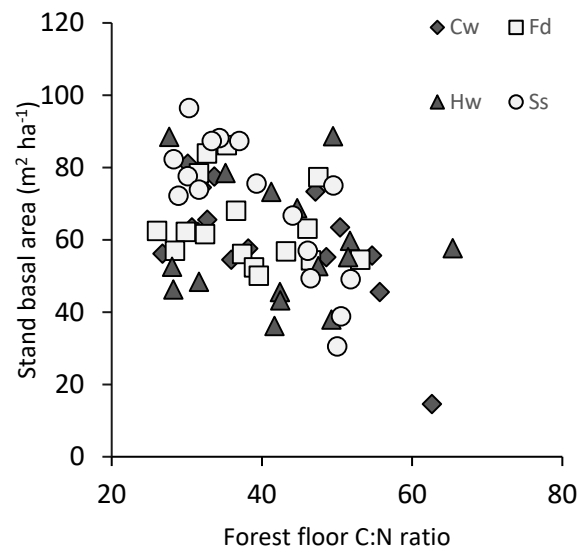
Supplemental Table 1. Study site features, including parent materials, slope, soil moisture and nutrient regime and forest floor (FF) depths.

Site	Topography	Soil material	Soil moisture and nutrient regime	Biogeoclimatic classification	FF depth (cm)
WC1000	Steep slope	Base-rich colluvium	Fresh and Rich	05 BaCw – Foamflower	1 - 5
Fairy Lake	Steep to modest slope	Base-poor colluvium; Morainal till	Fresh/Moist and Poor/Medium	01 HwBa – Blueberry; 06 HwBa – Deer fern	7 - 20
San Juan	Flat	Glacial fluvial terrace	Moist/Very Moist and Rich	07 BaCw - Salmonberry	2 - 7
Klanawa	Flat	Glacial fluvial terrace	Very Moist and Very Rich	07 BaCw – Salmonberry	2 - 10
Branch 136	Modest slope	Morainal till	Fresh/Moist and Rich	05 BaCw – Foamflower 07 BaCw - Salmonberry	1 - 5
Branch 167	Steep slope to toe slope	Morainal till	Slightly Dry/Moist and Poor/Rich	03 HwCw – Salal 01 HwBa – Blueberry 07 BaCw - Salmonberry	1 - 4
Branch 247	Flat	Glacial fluvial terrace	Moist and Medium/Rich	06 HwBa – Deer fern 07 BaCw - Salmonberry	0 - 9

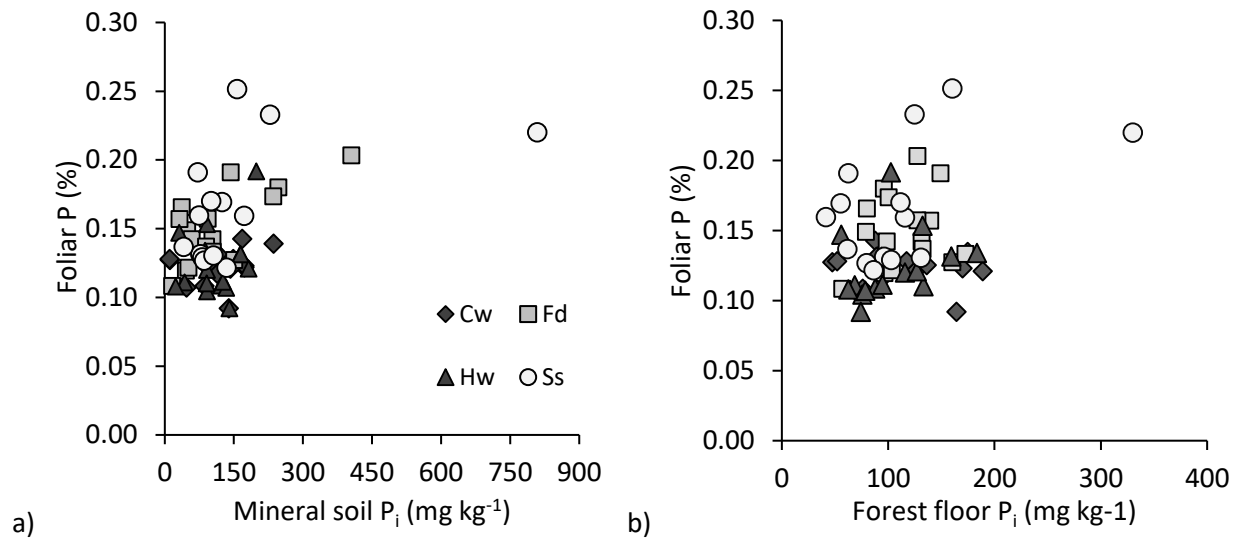
\* classification system based on vegetation communities aligned with edatopic grid; Green and Klinka, 1994



Supplemental Figure S1. Average stems per ha of the four conifer species by planting density treatment in 2014 (52 years in age) (SE as error bars). *Thuja plicata* (western redcedar) = Cw; *Pseudotsuga menziesii* (Douglas-fir) = Fd; *Tsuga heterophylla* (western hemlock) = Hw; *Picea sitchensis* (Sitka spruce) = Ss.



Supplemental Figure S2. Stand basal area in relation to forest floor C:N molar ratio. All planting densities included. *Thuja plicata* (western redcedar) = Cw; *Pseudotsuga menziesii* (Douglas-fir) = Fd; *Tsuga heterophylla* (western hemlock) = Hw; *Picea sitchensis* (Sitka spruce) = Ss.



Supplemental Figure S3. Foliar P concentrations in relation to a) mineral soil inorganic P concentrations (all planting densities included), and b) forest floor inorganic P. *Thuja plicata* (western redcedar) = Cw; *Pseudotsuga menziesii* (Douglas-fir) = Fd; *Tsuga heterophylla* (western hemlock) = Hw; *Picea sitchensis* (Sitka spruce) = Ss.