

Table 1. Carbon stocks of coastal and interior forests of different ages.

| Reference | Location | Forest type | Successional stage | Stand age (years) | Total carbon (Mg ha ⁻¹) | Aboveground tree carbon (Mg ha ⁻¹) |
|---------------------------------------|----------------------|-----------------------------------|--------------------|-------------------|-------------------------------------|--|
| Trofymow and Blackwell 1998 | Vancouver Island, BC | Cedar hemlock CWHvm1 | Old growth | 245-445 | 600-1300 ^a | 545 ^b |
| | | | Mature | 66-99 | 550-630 | 400 |
| | | | Immature | 32-45 | 400 | 200 |
| | | | Regen | 0-30 | 15-400 | 0-30 |
| Smithwick et al. 2002 | Oregon coast | Hemlock-spruce | Old growth | 150 | 1127 ^c | 465 ^b |
| | Eastern Oregon | Ponderosa pine | Old growth | 300-500 | 195 ^c | 55 ^b |
| Matsuzaki et al. 2013 | BC Inland rainforest | Cedar-hemlock, ICHwk3, ICHvk2 | Old growth | 300-500 | 455 ± 156 ^d | 284 ± 127 |
| | | | Clearcut | 0 | 99 ± 14 ^d | 0 |
| Bois et al. 2009 | Central BC | White spruce-subalpine fir SBSwk3 | Old growth | 175+ | 268 ± 12 ^f | 130 ± 8 ^h |
| | | | Mature | 81-174 | 248 ± 12 ^f | 123 ± 9 ^h |
| | | | Immature | 21-80 | 164 ± 7 ^f | 40 ± 9 ^h |
| | | | Regen | 0-20 | 148 ± 10 ^f | 13 ± 5 ^h |
| Simard et al. 2020; Roach et al. 2021 | BC mainland coast | Cedar-hemlock CWHvm1 | Mature | 68 | 431 ± 63 ^e | 149 ± 8 ^b |
| | | | Clearcut | 0 | 171 ± 64 ^e | 0 |
| | BC Inland rainforest | Douglas-fir-cedar ICHdw1 | Mature | 116 | 350 ± 31 ^g | 94 ± 4 ^b |
| | | | Clearcut | 0 | 123 ± 53 ^g | 0 |
| | Southern Interior BC | Douglas-fir IDFdm2 | Mature | 123 | 151 ± 16 ^g | 44 ± 6 ^b |
| | | | Clearcut | 0 | 88 ± 31 ^g | 0 |

a includes approx. 100 Mg ha⁻¹ in mineral soil carbon; depth not specified

b tree boles only

c includes 366 Mg ha⁻¹ in mineral soil carbon to a depth of 100 cm

d excluding mineral soil

e includes 40 Mg ha⁻¹ in mineral soil carbon to a depth of 55 cm

f includes 68 Mg ha⁻¹ in mineral soil carbon to a depth of 47 cm, for mesic sites

g includes 16 Mg ha⁻¹ in mineral soil carbon to a depth of 15 cm

h includes tree boles, branches, foliage