

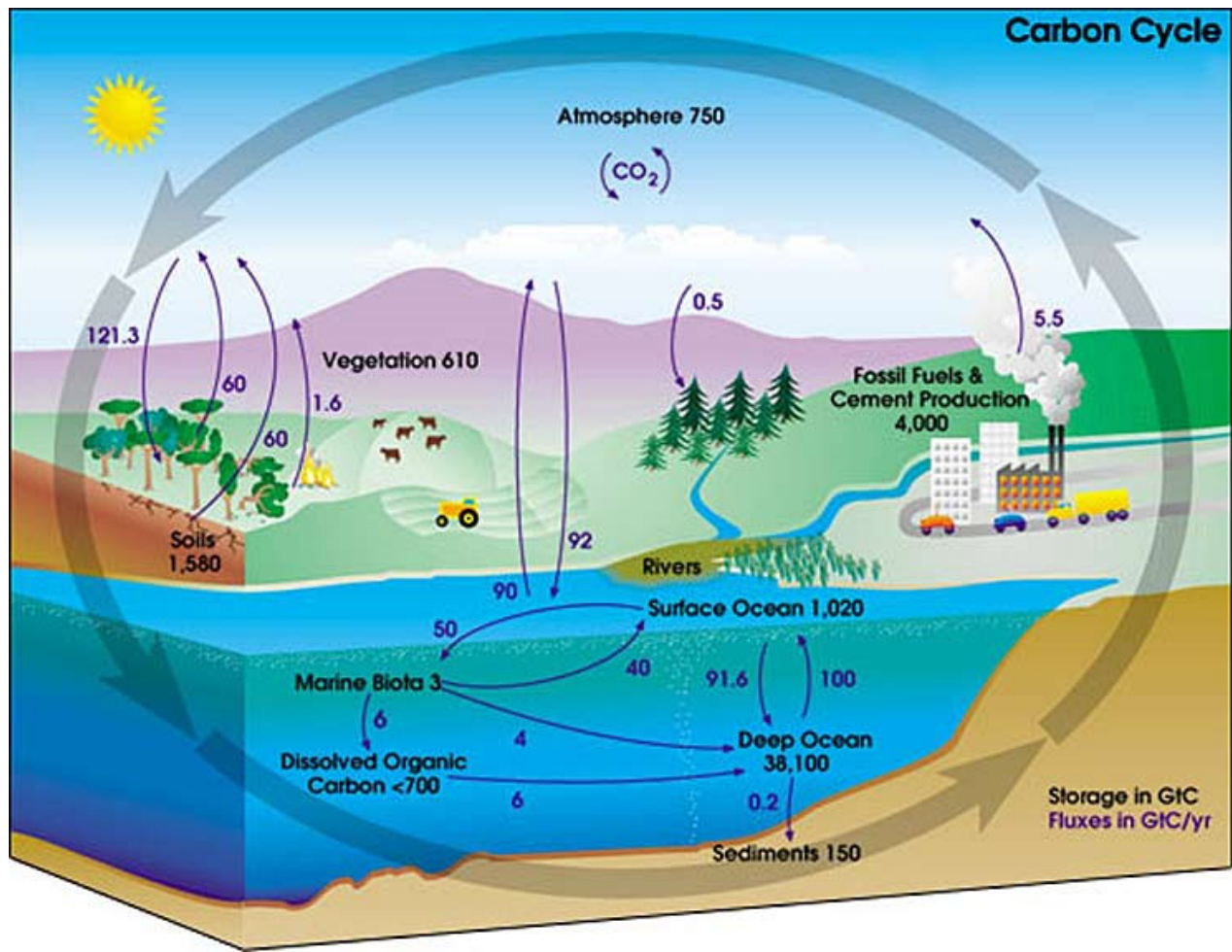
Carbon in Forests

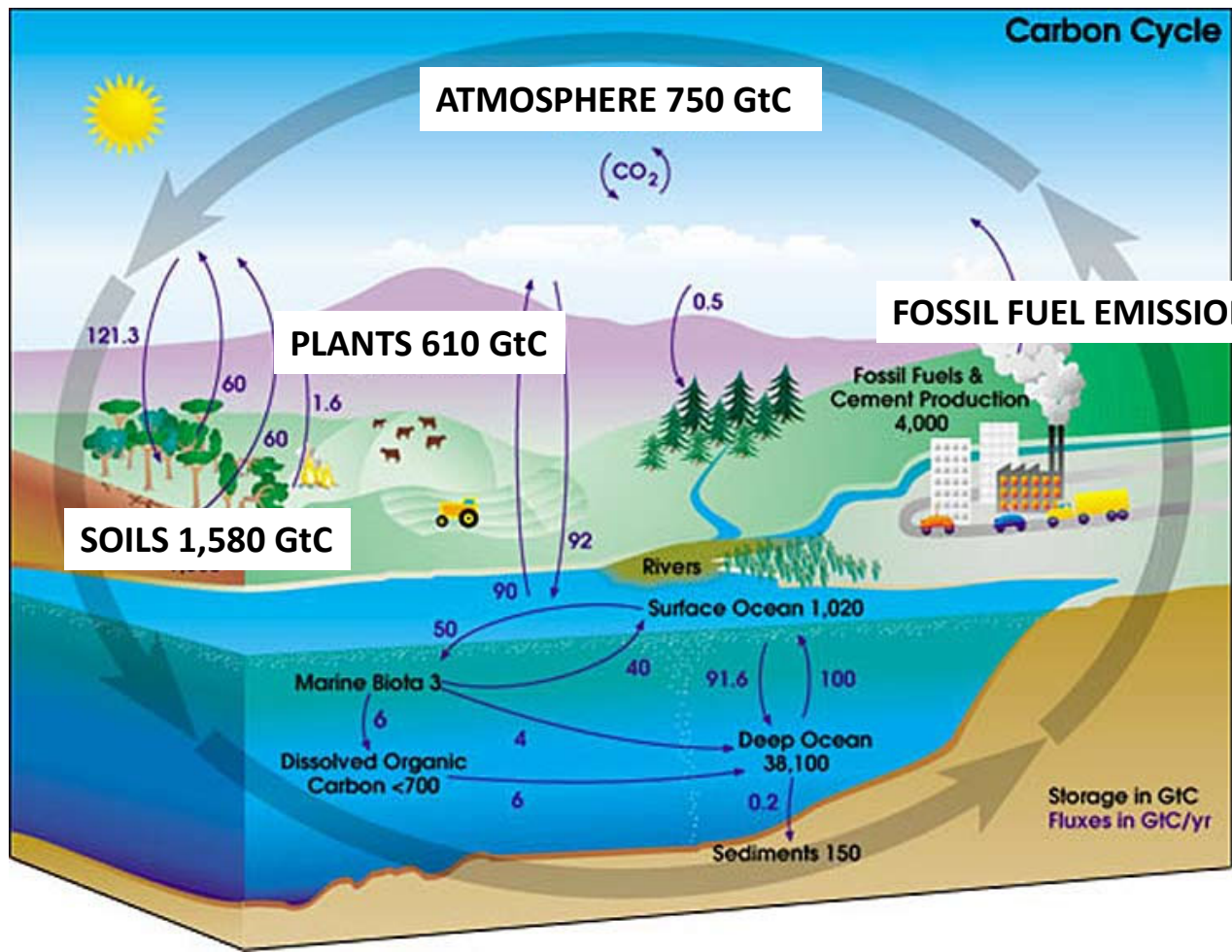


COMMUNITY
FORESTS
INTERNATIONAL

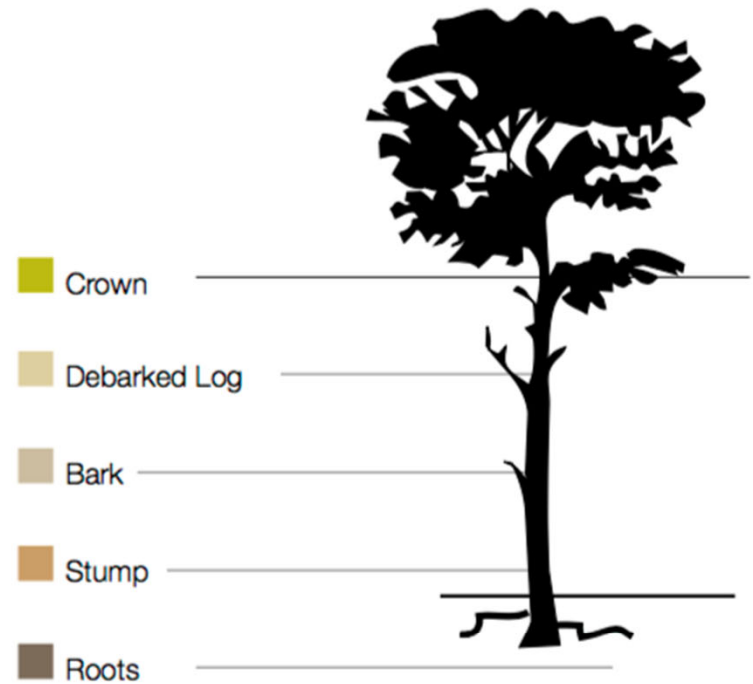
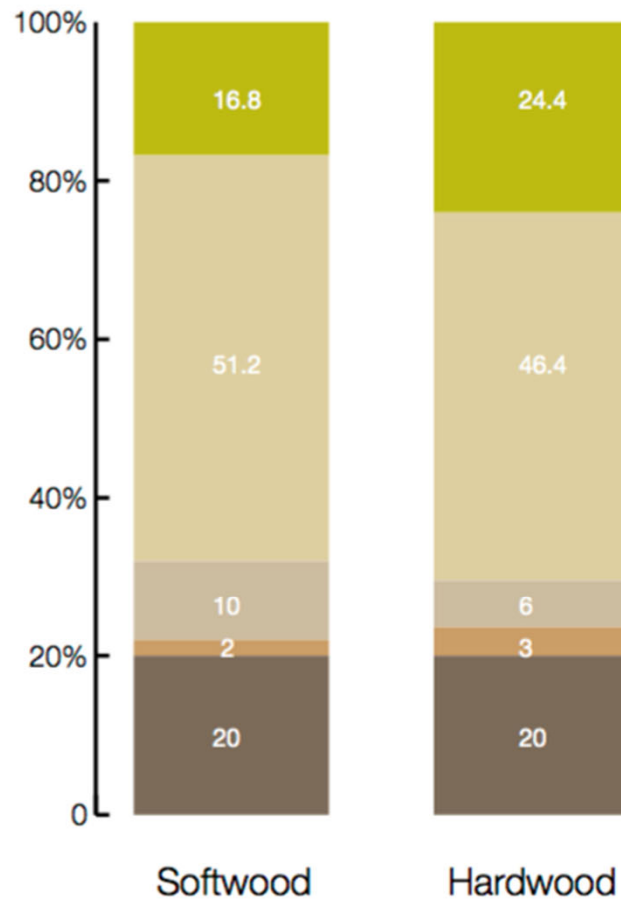
Key takeaways...

1. Forests can noticeably reduce carbon in atmosphere
2. Three key places: SOILS; STANDING TREES; COARSE WOODY DEBRIS
3. Soils are wildcard: scientific debate ongoing





Where is the carbon in each tree?



Carbon Pool- where carbon is stored within the forest

Most

Soils

★ **Standing Live Trees**

Forest Floor

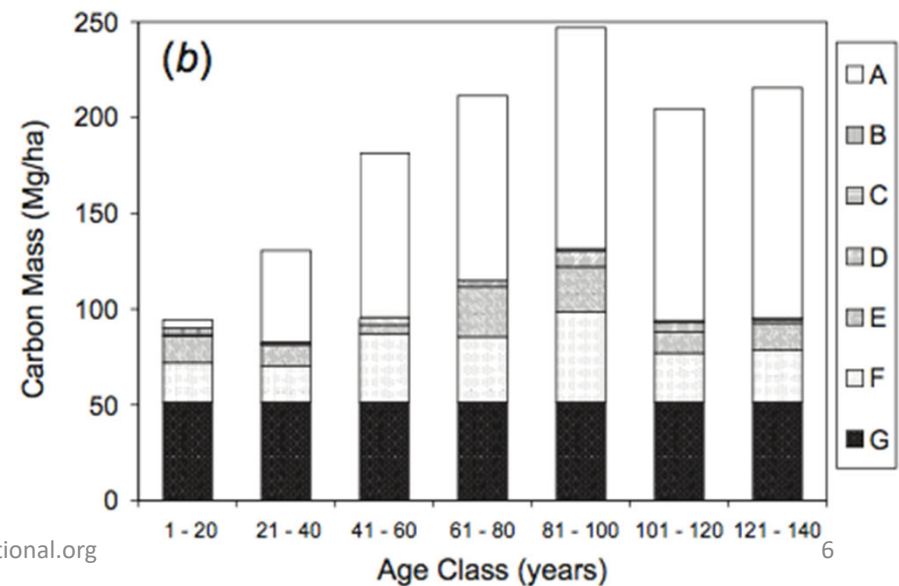
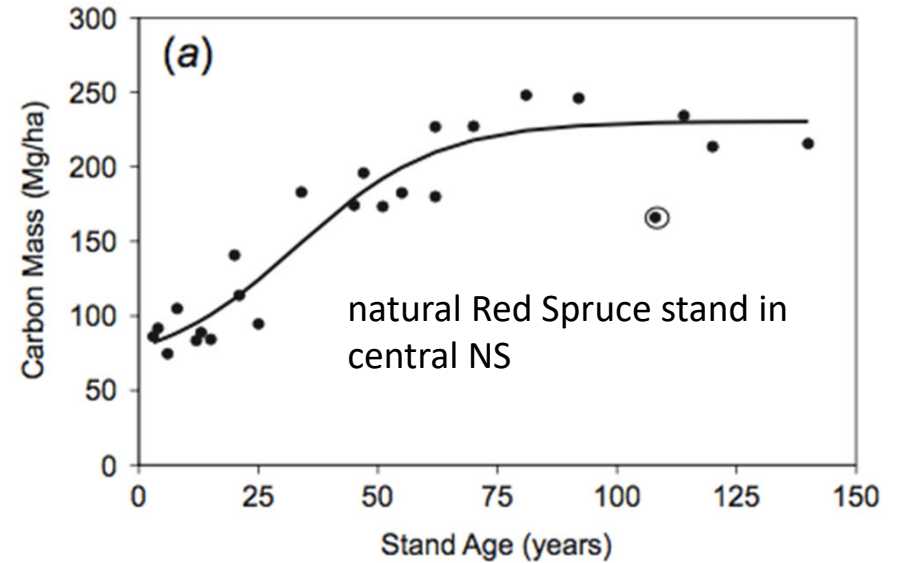
★ **Coarse Woody Debris**

★ **Standing Dead Trees**

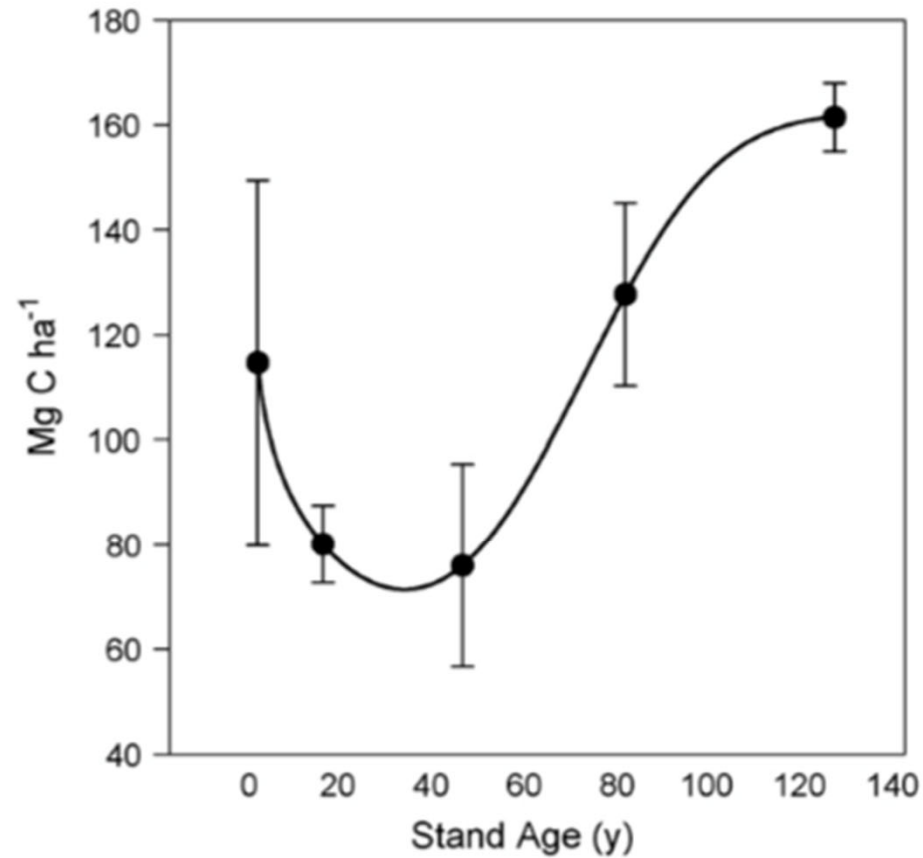
Seedlings

Shrubs

Least



Soils



85 TONNES C
(annual
emissions of
17 Canadians)

Fig. 1. Total carbon storage for a red spruce forest chronosequence ranging in age from 1 year to 125+ years. Total carbon storage was described by the gamma function where t = stand age in years: $\text{Mg C ha}^{-1} = -47.50^{(t)^{0.20}} e^{-5.85e^{-7}(t^{(3.32)})} + 162.18$; $r^2 = 0.999$; $P = 0.002$.

Soils

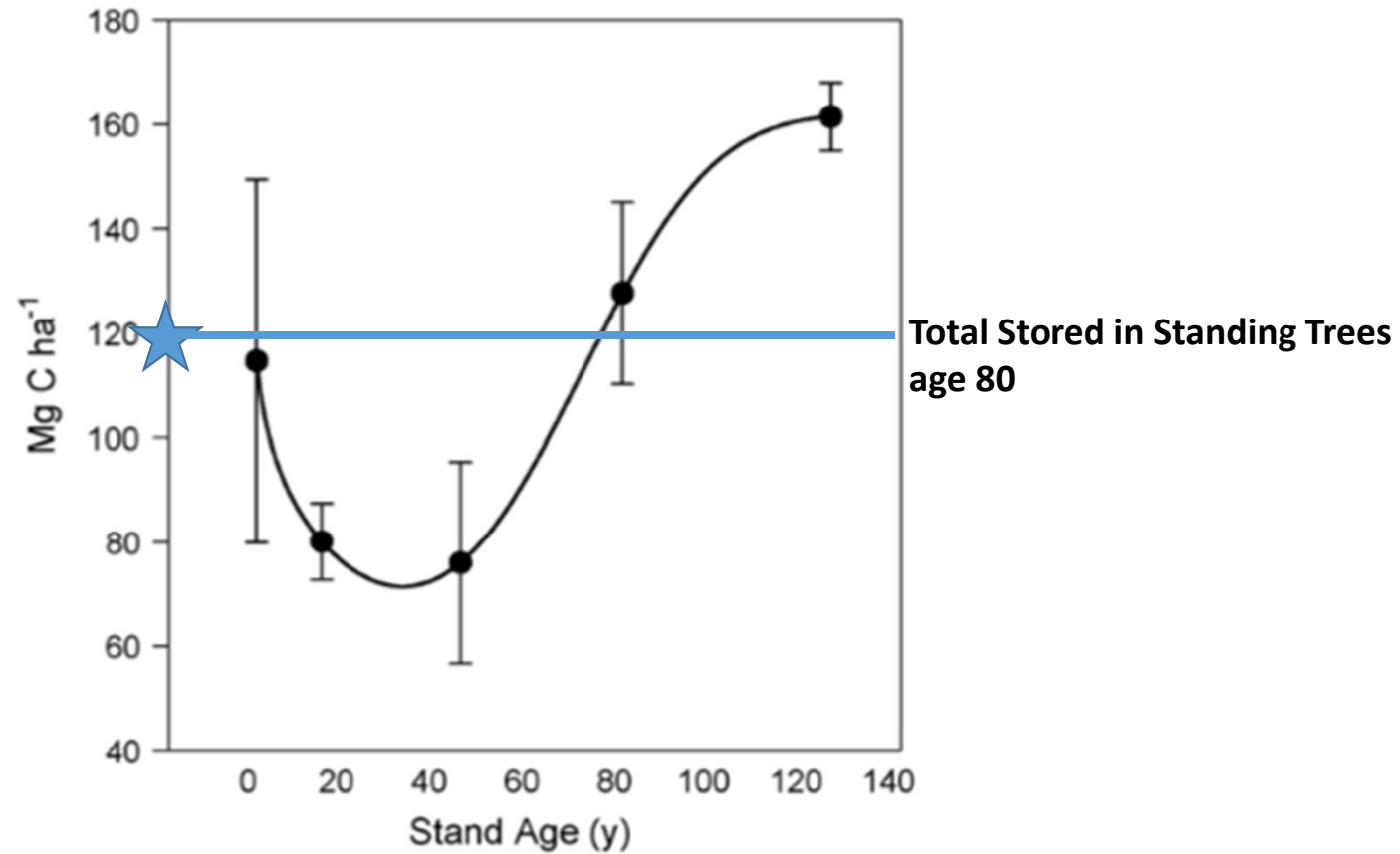


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