



































	Firewood	Paper	Pallets & construction	Composite materials
Carbon release	d from thin	ning		
Storage half-lives ^[1] (years)		1 to 6	6 & 70 to 100	45
Slash burning	4,140	4,140	4,140	4,140
Diesel fuel consumed - Logging	51	51	51	51
Firewood burning	8,240			
Diesel fuel consumed - Trucking	20	149	65	73
Carbon released Subtotal	12,451	4,340	4,256	4,264
Stored carbon an	d avoided re	leases		
Reduction in potential wildfire releases	2,410	2,410	2,410	2,410
Avoided used of oil or gas	6,980			
Storage in wood products		6,820	6,110	6,820
Carbon sequestered Subtotal	9,400	9,240	8,530	9,240
Net storage (or release) of carbon	(3,061)	4,890	4,264	4,966
Carbon storage measured in kg C ha-1.				



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Conclusions

- 1. Restoration or fuel-reduction thinning causes a small reduction in C stocks (~16%), & a short-term (1 yr) depression of carbon uptake because reduced tree leaf area reduces GPP.
- 2. Recovery of carbon uptake capacity from 1 thinning appears to be rapid due to rapid stimulation of tree production.
- 3. The end use of wood products plays an important role in how forest management treatments affect the C balance in forest stands.
- 4. Forest management treatments that reduce the risk of standreplacing fire may qualify to be credited in the marketplace as avoided deforestation.

West Coast Regional Carbon Sequestration Partnership