

CAN

COSTING OF CARBON SEQUESTRATION ALTERNATIVES FOR SLASH AND WOOD RESIDUE IN THE BVLD REGION

Ray Chipeniuk
2016 December 20

Burial of slash and wood residue

Zeng (2008) estimates the cost of burying wood in the field in the U.S. at \$50 U.S./T of sequestered carbon, but perhaps as low as \$40/T.

Zeng, Ning. 2008. Carbon sequestration via wood burial. *Carbon Balance and Management* 3(1). (Open Access online journal, so no page numbers.)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2266747/>

Conversion of slash and wood waste to biochar

According to my rough calculations (laid out in another document, “CAN -- Biochar – Costing”) the cost of converting slash and wood waste to biochar in the cutblocks of B.C. would be something like \$1,000/T (Canadian) of biochar, which is nearly pure carbon. This cost is very high; but the value of the resulting biochar might be \$2,000/T or more if sold commercially. The biochar product could be applied to soils in order to enhance agricultural and forest productivity.

Carbon offset prices in B.C.

It seems carbon offsets in British Columbia bring some of the highest prices in the world; but they are still modest, at just a little over \$17.30 a tonne of sequestered carbon.

<http://www.ecosystemmarketplace.com/articles/carbon-offset-prices-vary-widely-by-standard-and-project-type-study/>

B.C. Carbon Tax

The current B.C. Carbon Tax does not apply to wood destined for burning or decay. If it were taxed as if it were low-heating-value coal, the tax would be something like \$55/T. Lignite, another near-equivalent in heat value and CO₂ emissions, is taxed at just under \$31/T.