

Technical Reports

BC Coastal Forest Sector Hem-Fir Initiative

PROGRAM: Harvesting and Conversion Program

PROJECT #: H.01

PROJECT TITLE: Comparison Between Rolling Average and As-Measured Tare Weights for Logging Trucks

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Abstract

Under British Columbia Ministry of Forests, Mines and Lands weight scaling procedures the tare (empty) weight of every truck load must be measured and subtracted from the gross weight to calculate net load weight. Other industries follow a different procedure where an average tare weight is established for the truck and used for each load. FPInnovations compared the net load weights calculated from an average tare to the net load weight derived from the as-measured tare for a set of loads collected from a fleet of log trucks over one year. The difference in total net load between the as-measured tare and the average tare was 0.03% when the tare weight was calculated from sample tares at sampling rates of 1 load in 10 (1:10) and 1 load in 20 (1:20) respectively. This is equal to an average difference of 9.8 kg/load (1:10) and 11.7 kg/load (1:20).

Keywords: Tare weight, net weight, weight scaling, rolling average, aggregate difference, sampling rate

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