

## Technical Reports

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BC Coastal Forest Sector Hem-Fir Initiative

**PROGRAM:** Harvesting and Conversion Program

**PROJECT #:** H.01

**PROJECT TITLE:** Using Onboard Weight Scales to Ensure Consistent Load Sizes when Simple Sampling

**PROJECT LEADER:** P. Dyson

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### Abstract

Simple sampling is a proposed alternative to traditional weight scaling in which the total volume for an operating area is calculated from average truck load sizes. Obtaining an accurate scale volume with simple sampling requires building loads with consistent volumes. A British Columbia forest company established procedures for loading trucks to achieve consistent volumes by loading each truck to a target weight using the onboard truck weight scales. This report examines the variation in load weight and volumes, and the scaling precision that was achieved in the study. It compares the cost of simple sampling to traditional weight scaling.

**Keywords:** Simple sampling, Target truck load weight, Target volume, Coefficient of variation, Volume-to-weight ratio.

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