



WOODMAN™ Woodlands and Log Processing Management System

WOODMAN™ is an integrated system of computer programs that simulates woodlands and log processing operations together. The system starts with cruise data or historical scale data for one or more stands of timber. For a given logging plan and processing policy, the system calculates the volumes of timber used and the volumes and values of finished lumber, veneer, chips, and other products that result when the timber is processed. Also calculated are the times used by the processing facilities and the operating costs.

Woodlands and processing are *not* independent operations. To maximize profit, they must be considered together when operating decisions are made.

Since no two operations are the same, WOODMAN™ is made up of a series of "building blocks" that are customized for each application. Once configured, the system may be delivered for direct use by the end-user, or run by HALCO Software Systems as a service.

WOODMAN™ will help you maximize profits by determining:

- The value of particular stands of timber, for timber sale bidding purposes.
- The effect of alternative logging plans (or wood supply alternatives) on the operation of your manufacturing facilities.
- The optimum allocation of a timber supply to alternative millsites, or allocation to alternative products (lumber, veneer, or chips).

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- The optimum breakpoint between sawlogs and pulpwood.
- The optimum schedule of logging operations and log yard inventories to ensure the mill log supply is as consistent over time as possible, to improve operating efficiency.

HALCO Software Systems Expertise

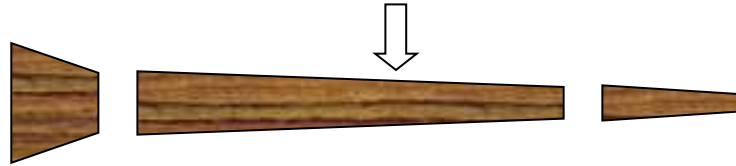
HALCO Software Systems is uniquely qualified to provide integrated simulation and optimization systems for woodlands/processing operations. The stem bucking and sawmill simulation modules of WOODMAN™ make use of our WOODSIM™ and SAWSIM® family of simulation programs, widely recognized as the most powerful woodlands and sawmill simulation programs available. In addition, many routines for timber cruise or scale data handling and manipulation have been developed in our years of consulting experience.

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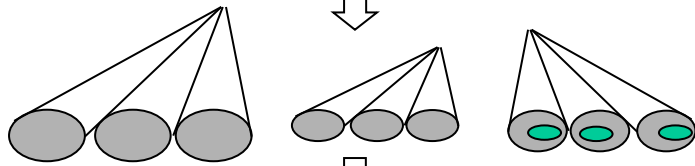
Fibre Flow Diagram



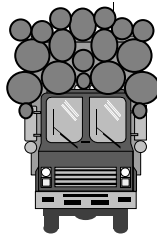
Harvest



Stem Bucking



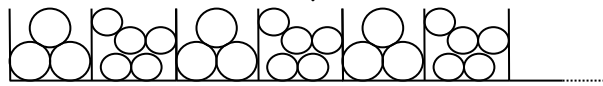
Log Sorting



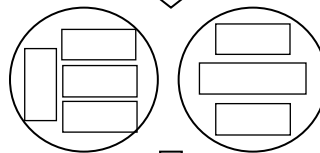
Hauling



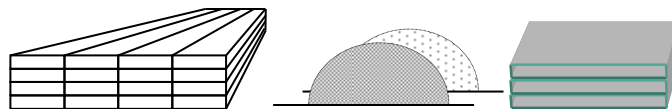
Log Bucking



Block Sorting



Sawing Method



Final Products

WOODMAN™

WOODSIM™

SAWSIM®

