

MILESTONE 5A - FCM DATA COLLECTION OF PRE1990 LUCAS EXOTIC FOREST NETWORK

INTRODUCTION

This document is a progress report on the collection of forest condition monitoring (FCM) data from the pre 1990 LUCAS exotic forest plot network. This work was undertaken by Interpine Forestry Limited (Interpine) on behalf of the New Zealand Forest Owners' Association as part of the development of an FCM. This report relates specifically to Milestone 5 - the implementation of FCM techniques into the NZ LUCAS measurement programme.

DATA COLLECTION

As of 09 August 2010, approximately 90% of the LUCAS plots had been completed by Interpine with a further 25 to be measured. Most LUCAS plots measured to-date by Interpine have had FCM data recorded from them, however some plots were excluded where FCM data collection was either impossible or not relevant. Crews were taking FCM measurements based on procedures outlined in the FCM Data Collection Manual.

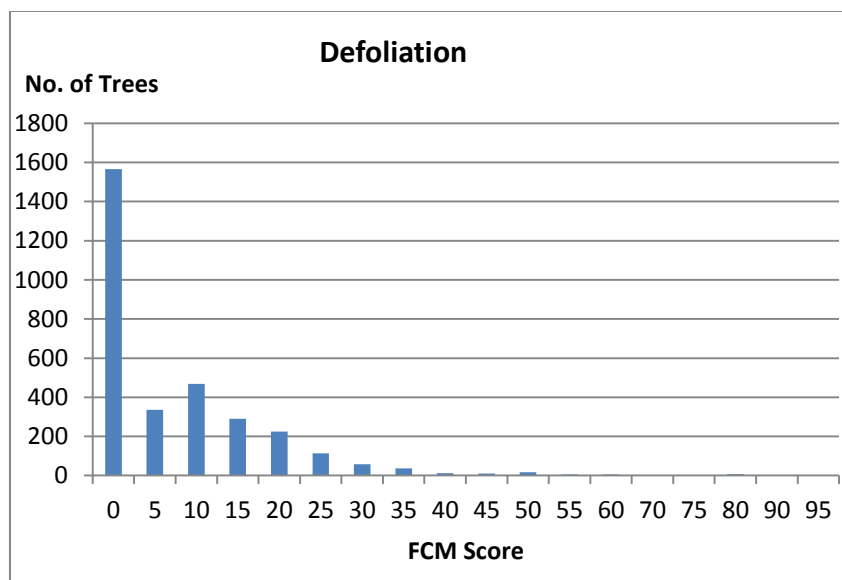
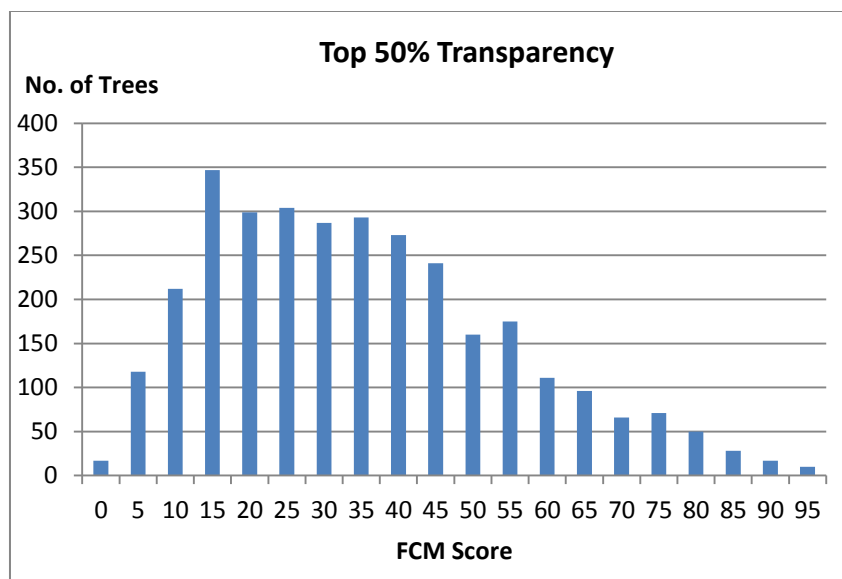
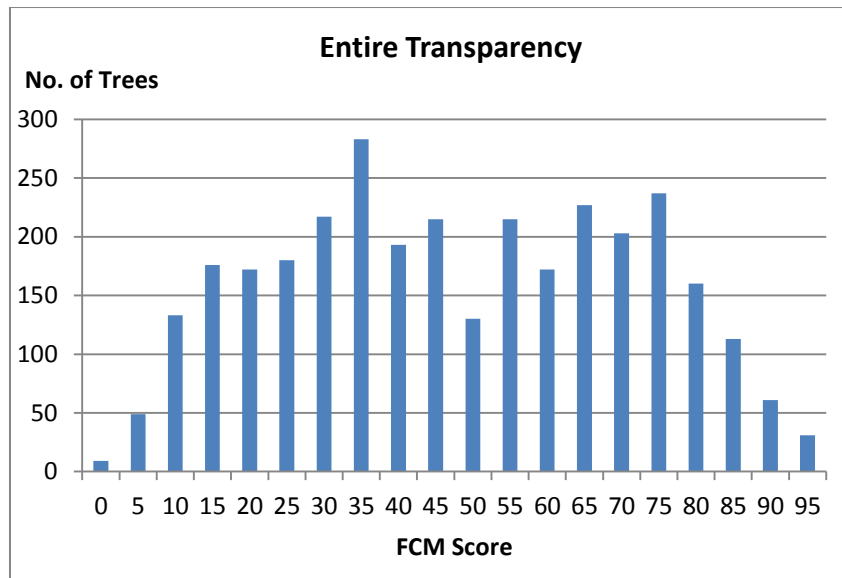
FCM data was collected on all live *Pinus radiata* crop trees in each plot that could be assessed. Some individuals may have been missed due to inaccessibility and poor assessment conditions. Data was collected on Allegro hand held computers and updated into the MfE LUCAS Gateway Database.

SUMMARY STATISTICS

As at 16 August 2010, 125 plots with FCM data had been loaded into the LUCAS Gateway. Out of these 125 plots, 3,999 *Pinus radiata* trees had been identified across 33 different age classes. Of the total *Pinus radiata* trees measured, 3,830 (96%) were alive and standing. The following table shows how many trees were recorded with health attribute information.

Health Attribute	Trees Measured	% of all Trees
Entire Transparency	3176	79.4%
Top 50% Transparency	3175	79.4%
Defoliation	3162	79.1%
Crown Dieback	3117	77.9%
Stem Visibility	3189	79.7%
Resin Bleeding	3999	100.0%
Crown Depth	3194	79.9%
Needle Retention	3188	79.7%
Dothistroma	3053	76.3%

The following charts display the frequency distributions for Crown Transparency and Defoliation measurements recorded by Interpine crews.



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