

Title: Evaluating the performance of the ponderosa pine diameter growth model for multi-aged stands in the Black Hills, Central Rockies variant of FVS.

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Time frame: Sept 1, 2011 – August 31, 2012

Description of Project:

This project involves evaluating the ponderosa pine diameter growth model for multi-aged stands in the Black Hills, Central Rockies variant of FVS. When stand ages vary by 40 years, there is an adjustment to the individual-tree diameter growth model. This project seeks to evaluate the effectiveness of this adjustment using ~1400 individual tree records from twenty uneven-aged stands in the Black Hills. Validation procedures are to follow standard practices outlined in the FVS Validation Protocols document

(http://www.fs.fed.us/fmfc/ftp/fvs/docs/steering/FVS_Model_Validation_Protocols.pdf) and peer reviewed literature. Products delivered to the FMSC will include 1) summary of data used in analysis (age, dbh, density ranges); 2) graphical and statistical analyses that describe the bias, precision and accuracy of the model; and, 3) a recommendation on any needed modifications to the model.