Modeling Project Report SMC Fall Meeting 2010: Dave Marshall

A. Purpose

• Develop research plans, proposals for external funding, etc.

• Develop appropriate collaborations with other cooperatives.

• Develop experimental designs, field measurement protocols etc.,

B. 2010 Activities

• The Modeling Project has met many of its 5-year strategic plan goals; including the PNW-CONIFERS young stand model and updating ORGANON SMC and genetics models.

• The Modeling TAC reviewed CIPS (VMRC) young stand modeling work to build on the previous young stand model by the SMC (PNW-CONIFERS) using vegetation treatment data available from the VMR.

• The Modeling TAC participated in the ORGANON red alder plantation model project (Hardwood Silviculture Cooperative). The database was created through a contract with the SMC. The Modeling TAC provided requested review of model components. The modeling is complete and beta testers are needed; contact Dave Marshall if you are interested.

• The Modeling and Wood Quality TAC’s are discussing wood quality modeling and the Modeling TAC is collaborating with the Silviculture: TAC on growth model evaluations. The Modeling TAC has facilitated FVS / ORGANON collaboration that will involve Erin Smith-Mateja and David Hann who will be working on folding the ORGANON model into the FVS interface. Potential funding from BLM is being explored.

C. 2011 Activity Plan

• Define the Modeling TAC role under biomass, biofuels, carbon and climate initiatives.

• Continue to encourage collaboration with other cooperatives — CIPS, VMRC, NWTIC, PNWTIRC, HSC and others.

• Seek beta testers for the ORGANON red alder model.

• Identify priority projects. One under discussion is reevaluation of models for fertilization and thinning. Six models tested show a wide range of responses to thinning, fertilization, and their combination. No one model adhered to all of general research findings on these treatments, (G. Johnson, GMUG Growth Model Runoff II).