Interim Progress Report   **Michael G. Wing**
Creating the Three-dimensional Virtual Forest Landscape   **September 11, 2008**

Work Accomplished
Significant activities have occurred in the Virtual Forest Landscape project during the summer months of 2008. Two College of Forestry students were hired in June to begin data collection in McDonald Forest. Forest measurement instruction was provided to the students during an initial training day. Measurements of tree, plant, and other notable forest features were collected in two areas in the Oak Creek area of McDonald Forest. The areas were densely forested and over 1,000 positional measurements were collected within the plots.

Also during summer of 2008, Principle investigator Michael Wing used a GPS receiver coupled with digital camera technology to record locations and images of over 300 trees, plants, and other notable features surrounding the Homestead Trail within the Oak Creek area. The Homestead Trail is the most popular hiking trail within the Oak Creek area and will be a highlighted feature within the Virtual Forest.

LiDAR data acquisition of the Oak Creek area occurred in April 2008 and used a LiDAR sensor mounted on an airplane. LiDAR data capture and processing were funded by another granting organization. The processed LiDAR database was delivered to OSU in August and will be associated with the field data measurements collected by the student crew and Michael Wing.

A project WWW site was established in August at OSU at the following location: http://www.cof.orst.edu/wingm/NWACC/index.htm. The project WWW site contains a project proposal, activity synopsis, and other information about the Virtual Forest Landscape project.

Positions Filled
Two College of Forestry students were hired in June 2008 to participate in the Virtual Forest Landscape project.

Expenditures to Data
GPS receiver: $3385
Student assistance: $3520
Computing hardware: $180

Total: $7085

Timeline for Completion
The Virtual Forest Landscape is on schedule for completion. The following primary project activities remain:

October 2008	Complete and document identification of tree and plant species
December 2008	Compile and associate all digital databases for input into Arc Server
February 2009	Establish the virtual landscape on the Internet
April 2009	Submit final progress report to NWACC