

GENETIC PARAMETER ESTIMATES OF HEIGHT-DIAMETER RELATIONSHIPS IN LOBLOLLY PINE (*PINUS TAEDA L.*)

W. Patrick Cumbie, Victor C. Steel, and Michael Cunningham

ArborGen Inc., Ridgeville, SC, USA

Gains in productivity for loblolly pine often focus on tree volume but a better understanding of the relationship between volume, height, and diameter is useful as foresters and land managers incorporate genetic performance in to stand management and financial decisions. We will explore the relationship of height and diameter in a variety of provenances, populations, and geographic locations. A comparison will be made between selection on various growth measures and we will explore genotype-phenotype associations using a clonally replicated population.

Contact Information: W. Patrick Cumbie, ArborGen Inc., 2011 Broadbank Ct., Ridgeville, SC 29472, Phone: 843-851-5085, Email: wpcumbi@arborgen.com