

TESTING AND DEPLOYMENT OF GENETICALLY ENGINEERED TREES

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Chapter Outline for Bonga & Durzan, 2d Ed.

1. INTRODUCTION
 - 1.1 What is meant by "genetically engineered", "testing" and "deployment"?
 - 1.1 Some preliminary questions
 2. TESTING
 - 2.1 General considerations
 - 2.1.1 Genetic variation within units
 - 2.1.2 Environmental variation within and between test sites
 - 2.1.3 The number of entries in a test
 - 2.1.4 The location, preparation and care of test sites
 3. CLONAL TESTING
 - 3.1 Sensitivity to broad-sense heritability
 - 3.2 Sensitivity to selection intensity
 - 3.3 Large contiguous plots vs non-contiguous plots
 - 3.4 Typical vs atypical sites
 - 3.5 Possibility of testing for competitive compatibility
 4. SPECIAL CONSIDERATIONS FOR GENETICALLY ENGINEERED TREES
 - 4.1 The relationship of genetic novelty and test stringency
 - 4.1.1 Two true stories
 - 4.2 The heritability of genetically engineered characteristics
 5. GENERAL DEPLOYMENT STRATEGIES
 - 5.1 Provenances
 - 5.2 Unusual sites
 6. CLONAL DEPLOYMENT STRATEGIES
 - 6.1 Maximum and minimum numbers of clones per locale
 - 6.2 General-purpose vs. interactive clones
 - 6.3 Wimps vs Moms
 7. SPECIAL STRATEGIES FOR GENETICALLY ENGINEERED TREES
 - 7.1 Minority mixes
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