

Contents

Foreword	ix
Steering Committee Members	xi
Reforestation Steering Committee Recommendations	xiii
What is a Technical Interactive Forum?	xv
<i>Kimery C. Vories, USDI Office of Surface Mining</i>	
Encouraging Interagency Cooperation and Innovative Reforestation Strategies	1
<i>Kathy Karpan, Director, Office of Surface Mining</i>	
Why Plant Trees?	3
<i>Robert J. Moulton, Resource Economist, USDA Forest Service</i>	
Forest Banking	11
<i>Kent Gilges, The Nature Conservancy</i>	
Session 1: Status of Office Surface Mining/State Reforestation Efforts	
State Statistics on Eastern U.S. Tree Planting Efforts	19
<i>Mike Sponsler, Indiana Division of Reclamation, Jasonville, Indiana</i>	
State Statistics on Western U.S. Tree Planting Efforts	29
<i>Michael Long, Colorado Division of Minerals and Geology, Denver, Colorado</i>	
Office of Surface Mining (OSM) Revegetation Team Survey Results	31
<i>Scott Boyce, Office of Surface Mining, Washington, D.C.</i>	
Summary Report on State Reforestation and Tree Planting Statistics	37
<i>Greg Conrad, Interstate Mining Compact Commission, Herndon, Virginia</i>	
Session 2: Interest Group Perspectives on Constraints, Experiences, Trends, and Needs	
Eastern State Perspectives on Tree Reclamation	53
<i>Mike Sponsler, Indiana Division of Reclamation, Jasonville, Indiana</i>	
Reforestation in the Western States	55
<i>Michael Long, Colorado Division of Minerals and Geology, Denver, Colorado</i>	
Impediments to Reforestation: Who Owns the Problem?	57
<i>David Finkenbinder, National Coal Association, Washington, D.C.</i>	
Historic Review of Minesite Reforestation in Tennessee	59
<i>Joseph Strange, Office of Surface Mining, Knoxville Field Office, Knoxville, Tennessee</i>	
Academic Research Perspective on Experiences, Trends, Constraints, and Needs Related to Reforestation of Mined Land	63
<i>James A. Burger, Virginia Polytechnic Institute and State University, Blacksburg, Virginia</i>	
Perspectives on Constraints, Experiences, Trends, and Needs Relating to the Establishment of Quality Wildlife Habitat on Mine Lands in Kentucky	75
<i>Steve Beam, Kentucky Department of Fish and Wildlife, Somerset, Kentucky</i>	
Ohio’s Perspectives on Constraints, Experiences, and Needs: A Practitioner’s View	81

<i>Jim Stafford, Ohio Division of Forestry, Zanesville, Ohio</i>	
Reforestation Constraints, Experiences, Trends, and Needs: A Landowner’s Perspective	83
<i>Timothy Probert, Pocahontas Land Co., Bluefield, West Virginia</i>	
Wildlife Perspectives of Reclamation	87
<i>Robert M. Morton, Kentucky Chapter of the Wildlife Society, Corydon, Kentucky</i>	

Session 3: Status of Reforestation Technology

Status of Reforestation Technology: The Appalachian Region	95
<i>James A. Burger and John L. Torbert, Virginia Polytechnic Institute and State University, Blacksburg, Virginia</i>	
Status of Reforestation Technology in Southern Illinois	109
<i>W. Clark Ashby, Emeritus, Southern Illinois University, Carbondale, Illinois</i>	
Low Mine Soil Compaction Research	125
<i>Don Graves, University of Kentucky, Lexington, Kentucky</i>	
Use of Field Measurements to Predict Reforestation Success	129
<i>Richard Sweigard, University of Kentucky, Lexington, Kentucky</i>	

Session 4: Case Studies of Reforestation in Mining Reclamation: Success and Failure

Pacific Northwest	143
<i>Glen Waugh, Office of Surface Mining, Olympia, Washington</i>	
Montana: Site Adapted Container Grown Woody Plants for Mine Reclamation	145
<i>Len Ballak, Bitterroot Restoration Inc., Corvallis, Montana</i>	
The Arid and Semiarid West	147
<i>Vernon Pfannenstiel, Peabody Coal Company, Flagstaff, Arizona</i>	
Texas Utilities’ Commitment to Reforestation	149
<i>Sid Stroud, Texas Utilities, Dallas, Texas</i>	
Successful Forestry Reclamation in Louisiana/Mississippi	153
<i>Marty Walker, North American Coal Corporation, Ackerman, Mississippi</i>	
Successful Tree Planting Techniques for Drastically Disturbed Lands: A Case Study of the Propagation and Planting of Container-Grown Oak and Nut Trees in Missouri	157
<i>Stuart Miller, Missouri Land Reclamation Program, Jefferson City, Missouri</i>	
Illinois/Indiana	173
<i>Chris Liebering, Liebering and Sons Reforestation, Lamar, Indiana</i>	
American Electric Power Company Reforestation History on Reclaimed Mined Lands	175
<i>Gary Kaster, AEP Land Management, McConnellsville, Ohio</i>	
Mycorrhizal Fungi and Trees—A Successful Reforestation Alternative for Mine Land Reclamation	177
<i>Charles E. Cordell, Plant Health Care, Asheville, North Carolina</i>	
Kentucky Reforestation Case Study	189
<i>Dan Williamson, Kentucky Reclamation Association, Madisonville, Kentucky</i>	
Forest Productivity of Reclaimed Mined Land: A Landowner’s Perspective	193
<i>Timothy Probert, Pocahontas Land Company, Bluefield, West Virginia</i>	

Session 5: Interest Group Recommendations to Enhance Reforestation

Eastern States Recommendations	201
<i>Mike Sponsler, Indiana Division of Reclamation, Jasonville, Indiana</i>	
Enhancement of Reforestation at Western Surface Coal Mines	203
<i>Ronald Daniels, Utah Division of Oil, Gas, and Mining, Salt Lake City, Utah</i>	
Coal Industry Recommendations	205
<i>David Finkenbinder, National Coal Association, Washington, D.C.</i>	

Field Inspector Recommendations	207
<i>Vic Davis, Office of Surface Mining, Knoxville, Tennessee</i>	
Interest Group Recommendations to Enhance Reforestation: Academic Research	209
<i>James Burger, Virginia Polytechnic Institute and State University, Blacksburg, Virginia</i>	
Wildlife Recommendations	211
<i>Steve Beam, Kentucky Department of Fish and Wildlife, Somerset, Kentucky</i>	
Ohio Division of Forestry	213
<i>Jim Stafford, Ohio Division of Forestry, Zanesville, Ohio</i>	
Landowner Recommendations	215
<i>Timothy Probert, Pocohontas Land Company, Bluefield, West Virginia</i>	
Kentucky Wildlife Society	217
<i>Robert M. Morton, Corydon, Kentucky</i>	
Forum Conclusion	
Where Do We Go From Here?	221
<i>Kathy Karpan, Director, Office of Surface Mining.</i>	
Poster Presentations	
Woody Establishment Patterns Following Mountaintop Removal in the Coal River Valley	225
<i>Stacy N. Edmonds and Olie L. Loucks, Miami University, Oxford, Ohio</i>	
Deep Soil Loosening with Sludge Incorporation Promotes Tree Establishment on Mine Soils	231
<i>Jack Vimmerstedt and D.A. Kost, School of Natural Resources, The Ohio State University, Wooster, Ohio, and W.D. Smith, Mead Corporation, Chillicothe, Ohio</i>	
Use of Woody Plant Seed to Reforest Mined Land: Purpose, Problems and Opportunities	233
<i>Lawrence T. Beckerle, Glenville State College, Craigsville, West Virginia</i>	
Reforesting Alabama’s Abandoned Mine Lands	235
<i>E.S. Lyle, Jr. and J.L. Kitson, Walker County Soil and Water Conservation District, Jasper, Alabama</i>	
Survey Results Reforestation Technical Interactive Forum	239
<i>Participant Comments and Recommendations</i>	
Appendix 1: Recorded Discussions	249
<i>Edited by Kimery C. Vories, USDI Office of Surface Mining</i>	
Participants List	261