

INDEX

| <u>Chapter</u> | | <u>Page</u> |
|----------------|--|-------------|
| | Foreword – Handbook Application | i-3 |
| | I. ECOLOGICAL TOOLS | |
| 11 | Site Productivity | 11-1 |
| 12 | Forest Habitat Type Classification System | 12-1 |
| | II. SILVICULTURAL METHODS | |
| 21 | Natural Regeneration | |
| | Coppice | 21-3 |
| | Clearcut | 21-5 |
| | Seed Tree | 21-7 |
| | Overstory Removal | 21-9 |
| | Shelterwood | 21-11 |
| | Selection | 21-14 |
| | Reserve Trees | 21-18 |
| | Practices Not Part of Silvicultural Systems That May Result In Regeneration | 21-20 |
| | Establishment and Evaluation of Adequate Natural Regeneration | 21-21 |
| | References | 21-22 |
| 22 | Artificial Regeneration | |
| | Purpose | 22-1 |
| | Definitions | 22-1 |
| | Planning | 22-1 |
| | Site Preparation | 22-11 |
| | Direct Seeding | 22-17 |
| | Planting | 22-22 |
| | Plantation Management and Maintenance | 22-24 |
| | Specialty Plantings | 22-29 |
| | Appendix A - Individual Species Planting Considerations | 22-34 |
| | Appendix B - Herbicides for Forest Management | 22-51 |
| | Bibliography | 22-52 |
| 23 | Intermediate Treatments | |
| | Release | 23-2 |
| | Thinning | 23-4 |
| | Thinning Clumps of Trees | 23-15 |
| | Improvement Cutting | 23-20 |
| | Salvage and Sanitation Cuttings | 23-21 |
| | Pruning | 23-22 |
| | References | 23-24 |
| 24 | Marking Guidelines | |
| | Timber Management Considerations | 24-3 |
| | Wildlife Management Considerations | 24-6 |
| | Aesthetic Management Considerations | 24-9 |
| | Water Quality Management Considerations | 24-9 |
| | Biodiversity and Endangered Resources Management Considerations | 24-9 |
| | Reserve Trees | 24-11 |
| | Recommendations for Retention in Managed Stands Reserve Trees, Mast Trees, Cavity Trees, and Snags | 24-15 |
| | References | 24-16 |
| | Appendix A – Summary Tables | 24-18 |

| | | |
|----|---|------|
| | III. COVER TYPES – SILVICS AND SILVICULTURE | |
| 31 | White Pine | 31-1 |
| 32 | Red Pine | 32-1 |
| 33 | Jack Pine | 33-1 |
| 34 | Fir-Spruce | 34-1 |
| 35 | Swamp Conifer -Balsam Fir | 35-1 |
| 36 | Black Spruce | 36-1 |
| 37 | Tamarack | 37-1 |
| 38 | White Cedar | 38-1 |
| 39 | Hemlock Hardwood | 39-1 |
| 40 | Northern Hardwood | 40-1 |
| 41 | Oak | 41-1 |
| 43 | Aspen | 43-1 |
| 44 | Paper Birch | 44-1 |
| 45 | Black Walnut | 45-1 |
| 46 | Swamp Hardwood | 46-1 |
| 47 | Bottomland Hardwood | 47-1 |
| 51 | Red Maple | 51-1 |
| 52 | Central Hardwoods | 52-1 |
| | IV. FOREST MANAGEMENT OBJECTIVES | |
| 61 | Big Tree Silviculture | 61-1 |
| 62 | Economic Considerations | 62-1 |
| | V. APPENDICES | |
| A | Glossary of Terms | A-1 |
| B | Scientific and Common Names of Native Trees | B-1 |
| C | Forest Cover Type Definitions and Abbreviations | C-1 |