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United States Department of Agriculture,

DIVISION OF PUBLICATIONS—Circular 11.

JOS. A. ARNOLD, Editor and Chief.

WASHINGTON, D. C., *January 25, 1913.*

PUBLICATIONS OF THE FOREST SERVICE.

NOTE.—Application for publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of some of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants are referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applicants are urgently requested to ask only for those publications in which they are particularly interested. The department can not undertake to supply complete sets, nor is it allowable to send more than one copy of any publication to an applicant.

REPORTS.

Report of the Forester for the year 1892:

Same, 1897.

Same, 1910.

Same, 1904.

Same, 1912.

BULLETINS.

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Forest Service, Bulletin No. 13."]

- Bul. 13. Timber Pines of the Southern United States.
- 36. The Woodsman's Handbook. (Revised and enlarged.)
- 39. Conservative Lumbering at Sewanee, Tenn.
- 43. A Working Plan for Forest Lands in Hampton and Beaufort Counties, South Carolina.
- 50. Cross-Tie Forms and Rail Fastenings, with Special Reference to Treated Timbers.
- 51. Report on Condition of Treated Timbers Laid in Texas, February, 1902.
- 53. Chestnut in Southern Maryland.
- 58. The Red Gum. With a Discussion of the Mechanical Properties of Red Gum Wood.
- 60. Report on an Examination of a Forest Tract in Western North Carolina.
- 73. Grades and Amount of Lumber Sawed from Yellow Poplar, Yellow Birch, Sugar Maple, and Beech.
- 75. California Tanbark Oak. Part I. Tanbark Oak and Tanning Industry. Part II. Utilization of the Wood of Tanbark Oak. Appendix. Distribution of Tannin in Tanbark Oak.
- 76. How to Grow and Plant Conifers in the Northeastern States.
- 78. Wood Preservation in the United States.
- 79. The Life History of Lodgepole Burn Forests.

- Bul. 80. The Commercial Hickories.
 81. The Forests of Alaska.
 84. Preservative Treatment of Poles.
 85. Chaparral: Studies in the Dwarf Forests or Elfin-Wood of Southern California.
 87. Eucalypts in Florida.
 88. Properties and Uses of Douglas Fir. Part 1. Mechanical Properties. Part 2. Commercial Uses.
 90. Relation of Light Chipping to the Commercial Yield of Naval Stores.
 91. Grazing and Floods: A Study of Conditions in the Manti National Forest, Utah.
 92. Light in Relation to Tree Growth.
 93. The Aspens: Their Growth and Management.
 96. Second-Growth Hardwoods in Connecticut.
 97. Coyote-Proof Inclosures in Connection with Range Lambing Grounds.
 99. Uses of Commercial Woods of the United States. II. Pines.
 100. The Crater National Forest: Its Resources and Their Conservation.
 101. Western Yellow Pine in Arizona and New Mexico.
 102. The Identification of Important North American Oak Woods Based on a Study of the Anatomy of the Secondary Wood.
 103. Distinguishing Characteristics of North American Gumwoods Based on the Anatomy of the Secondary Wood.
 104. Principles of Drying Lumber at Atmospheric Pressure, and Humidity Diagram.
 105. Wood Turpentine.
 106. Wood-Using Industries and National Forests of Arkansas. Part I. Uses and Supply of Wood in Arkansas. Part II. Timber Resources of the National Forests in Arkansas.
 107. The Preservation of Mine Timbers.
 109. Distillation of Resinous Wood by Saturated Steam.
 112. Forest-Killed Douglas Fir: A Study of Its Rate of Deterioration, Usability, and Strength.
 113. Methods and Apparatus for the Prevention and Control of Forest Fires, as Exemplified on the Arkansas National Forest.
 114. Forest Conditions in Louisiana.
 115. Mechanical Properties of Western Hemlock.
 116. Possibilities of Western Pines as a Source of Naval Stores.
 117. Forest Fires: Their Causes, Extent, and Effects, With a Summary of Recorded Destruction and Loss.
 118. Prolonging the Life of Crossties.
 119. An Examination of the Oleoresins of Some Western Pines.

CIRCULARS.

[In applying for these circulars the name of the bureau as well as the number of the circular should be given, as "Forest Service, Circular No. 25."]

- Circ. 25. Forestry and the Lumber Supply.
 26. Forest Fires in the Adirondacks in 1903.
 37. Forest Planting in the Sand-Hill Region of Nebraska.
 38. Instructions to Engineers of Timber Tests. Revised.
 39. Experiments on the Strength of Treated Timbers.
 40. The Utilization of Tupelo.
 41. Forest Planting on Coal Lands in Western Pennsylvania.
 42. Consumption of Tanbark in 1905.
 43. Crossties Purchased by the Steam Railroads of the United States in 1905.

- Circ. 48. Kiln-Drying Hardwood Lumber.
49. Timber Used in Mines of United States in 1905.
54. How to Cultivate and Care for Forest Plantations on Semiarid Plains.
55. How to Pack and Ship Young Forest Trees.
59. Eucalypts.
60. Red Pine, *Pinus resinosa*.
61. How to Transplant Forest Trees.
62. Shagbark Hickory, *Hicoria ovata*.
63. Basswood, *Tilia americana*.
64. Black Locust, *Robinia pseudacacia*.
65. Norway Spruce, *Picea excelsa*.
67. White Pine, *Pinus strobus*.
68. Scotch Pine, *Pinus sylvestris*.
69. Fence Post Trees.
73. Red Cedar, *Juniperus virginiana*.
75. Hackberry, *Celtis occidentalis*.
76. Silver Maple, *Acer saccharinum*.
80. Fractional Distillation of Coal-Tar Creosote.
81. Forest Planting in Illinois.
83. Russian Mulberry, *Morus alba tatarica*.
84. White Ash, *Fraxinus americana*.
86. Boxelder, *Acer negundo*.
87. White Willow, *Salix alba*.
89. Tamarack, *Larix laricina*.
90. Osage Orange, *Toxylon pomiferum*.
92. Green Ash, *Fraxinus lanceolata*.
93. Yellow Poplar, *Liriodendron tulipifera*.
96. Arbor Day.
98. Quantity and Character of Creosote in Well-Preserved Timbers.
99. Suggestions for Forest Planting on Semiarid Plains.
102. Production of Red Cedar for Pencil Wood.
105. White Oak in the Southern Appalachians.
106. White Oak, *Quercus alba*.
107. Sawmill Statistics, 1907.
109. Forest Planting in the North Platte and the South Platte Valleys.
113. Use of Dead Timber in the National Forests.
114. Wood Distillation.
115. Second Progress Report on the Strength of Structural Timber.
118. Management of Second Growth in the Southern Appalachians.
122. The Lumber Cut of the United States in 1906.
124. Consumption of Cross-Ties in 1906.
125. Production of Tight Cooperage Stock in 1906.
127. Forest Tables—Western Yellow Pine.
128. Preservation of Piling against Marine Wood Borers.
132. The Seasoning and Preservative Treatment of Hemlock and Tamarack Cross-Ties.
134. The Estimation of Moisture in Creosoted Wood.
135. Chestnut Oak in the Southern Appalachians.
137. Consumption of Poles in 1906.
138. Suggestions to Woodlot Owners in the Ohio Valley Region
141. Wood Paving in the United States.
142. Tests of Vehicle and Implement Woods.
143. The Relation of the Southern Appalachian Mountains to Inland Water Navigation.

- Circ. 145. Forest Planting on the Northern Prairies.
146. Experiments with Railway Cross-Ties.
148. Practical Results in Basket Willow Culture.
150. Douglas Fir: A Study of the Pacific Coast and Rocky Mountain Forms.
154. Native and Planted Timber of Iowa..
156. Preliminary Report on Grazing Experiments in a Coyote-Proof Pasture.
158. The Revegetation of Overgrazed Range Areas.
160. Coyote-Proof Pasture Experiments, 1908.
163. Paper Birch in the Northeast.
164. Properties and Uses of Southern Pines.
166. The Timber Supply of the United States.
167. The Status of Forestry in the United States.
169. Natural Revegetation of Depleted Mountain Grazing Lands.
170. Engelmann Spruce in the Rocky Mountains, with Special Reference to Growth, Volume, and Reproduction.
172. Methods of Increasing Forest Productivity.
173. Avalanches and Forest Cover in the Northern Cascades.
174. Reproduction of Western Yellow Pine in the Southwest.
176. Surface Conditions and Stream Flow.
177. Wooden and Fiber Boxes.
178. The Pasturage System for Handling Range Sheep.
179. Utilization of California Eucalypts.
181. Consumption of Firewood in the United States.
182. Shortleaf Pine, *Pinus echinata*.
183. Loblolly Pine, *Pinus taeda*.
184. Fustic Wood: Its Substitutes and Adulterants.
185. Colombian Mahogany: Its Characteristics and Its Use as a Substitute for True Mahogany.
186. Consumption of Wood Preservatives and Quantity of Wood Treated in the United States in 1910.
187. Manufacture and Utilization of Hickory, 1911.
188. Volatilization of Various Fractions of Creosote after Their Injection into Wood.
190. A Visual Method for Determining the Penetration of Inorganic Salts in Treated Woods.
191. Modification of the Sulphonation Test for Creosote.
192. The Prevention of Sap Stain in Lumber.
193. Mechanical Properties of Redwood.
194. Progress Report on Wood-Paving Experiments in Minneapolis.
195. Forest Planting in the Northeastern and Lake States.
196. The Influence of Age and Condition of the Tree upon Seed Production—Western Yellow Pine.
197. Utah Juniper in Central Arizona.
198. Condition of Experimental Chestnut Poles in the Warren-Buffalo and Poughkeepsie-Newton Square Lines after Five and Eight Years' Service.
199. Quantity and Quality of Creosote Found in Two Treated Piles after Long Service.
200. The Absorption of Creosote by the Cell Walls of Wood.
201. Emory Oak in Southern Arizona.
202. Quebracho Wood and Its Substitutes.
204. Strength Tests of Cross-Arms.
205. Forest Fire Protection Under the Weeks Law in Cooperation with States.

- Circ. 206. Commercial Creosotes, with Special Reference to Protection of Wood from Decay.
 207. The Profession of Forestry.
 208. Extracting and Cleaning Forest Tree Seed.
 209. Service Tests of Ties. Progress Report.
 210. Yield and Returns of Blue Gum (*Eucalyptus*) in California.
 211. Greenheart.

MISCELLANEOUS.

[In applying for these publications, the name of the bureau as well as the full title of the publication should be given.]

- Forest Trees of the Pacific Slope.
 Purchase of Land Under the Weeks Law in the Southern Appalachian and White Mountains.
 The National Forest Manual—Grazing.
 The National Forest Manual—Special Uses.
 The National Forest Manual—Trespass.
 The National Forest Manual—Claims, Settlement, Administrative Sites.
 The National Forest Manual—Timber Sales, Administrative Use, Timber Settlement, Free Use.
 The National Forest Manual—Forest Plans.

SILVICAL LEAFLETS.

[In applying for these leaflets, the name of the bureau as well as the number of the publication should be given, as "Forest Service, Silvical Leaflet No. 4."]

- Leaflet 4. White Fir, *Abies concolor*.
 8. Red Fir, *Abies magnifica*.
 9. Incense Cedar, *Libocedrus decurrens*.
 10. Bigcone Spruce, *Pseudotsuga macrocarpa*.
 15. White Spruce, *Picea canadensis*.
 19. Bigtree, *Sequoia washingtoniana*.
 21. Jeffrey Pine, *Pinus jeffreyi*.
 22. Amabilis Fir, *Abies amabilis*.
 24. Bristle-Cone Fir, *Abies venusta*.
 25. Cottonwood, *Populus deltoides*.
 27. Torrey Pine, *Pinus torreyana*.
 28. Black spruce, *Picea mariana*.
 31. Black Hemlock, *Tsuga mertensiana*.
 41. Chestnut Oak, *Quercus prinus*.
 43. Red or Norway Pine, *Pinus resinosa*.
 44. Jack Pine, *Pinus divaricata*.
 46. Limber Pine, *Pinus flexilis*.
 47. Piñon Pine, *Pinus edulis*.
 48. Pignut Hickory, *Hicoria glabra*.
 49. Shagbark Hickory, *Hicoria ovata*.
 50. Big Shellbark or King-Nut Hickory, *Hicoria laciniosa*.
 52. Oregon Oak, *Quercus garryana*.

FARMERS' BULLETINS.

[The Farmers' Bulletins are a series of popular treatises issued by the Department of Agriculture. The following list includes only numbers relating to forestry and should be designated by number, as "Farmers' Bulletin No. 134."]

- F. B. 134. Tree Planting on Rural School Grounds.
 173. A Primer of Forestry. Part I: The Forest.
 228. Forest Planting and Farm Management.
 358. A Primer of Forestry. Part II: Practical Forestry.
 387. The Preservative Treatment of Farm Timbers.
 423. Forest Nurseries for Schools.
 468. Forestry in Nature Study.
 516. The Production of Maple Sirup and Sugar.

SEPARATE REPRINTS FROM THE YEARBOOK.

[In applying for these publications the number of the separate should be given, as "Yearbook Separate No. 187."]

- Ybk. Sep. 187. Practice of Forestry by Private Owners.
 241. Grazing in the Forest Reserves.
 525. The Management of Second-Growth Sprout Forests.
 534. Progress in Saving Forest Waste.
 548. Fire Prevention and Control on the National Forests.
 566. Tree Planting by Farmers.
 575. The Business Aspect of National Forest Timber Sales.

Approved:

JAMES WILSON,
Secretary of Agriculture.



