Forestry Theses Accepted by Colleges and Universities in the United States 1900-1952

Compiled by
KATHERINE W. HUGHES
Library

Subject Index by

RAY A. YODER and WILLIAM I. WEST
School of Forestry
Oregon State College



Bibliographic Series Number 3

OREGON STATE COLLEGE CORVALLIS, OREGON 1953



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PREFACE

In 1934 the Library of Oregon State College, at the suggestion of our School of Forestry, undertook, as an NYA project, the compilation of a list of theses in the field of Forestry. The resulting typescript bibliography, and the several supplements, were found to be immediately useful by Schools of Forestry throughout the country. As a result the Society of American Foresters suggested some time ago that a more complete list be published for general distribution. This larger bibliography we have now compiled and, with the co-

operation of our School of Forestry, here present.

While the chief burden of preparing this record of graduate study in forestry and closely allied fields has fallen on Miss Hughes many other persons have contributed to it. Primary acknowledgment should go to Miss Carrie Thory, formerly of the Library Staff, who, under great handicaps, supervised preparation of the original NYA typescript lists. Miss Margaret Field, deceased, former Engineering Librarian, worked extensively on the list, as did her successor, Mr. Hubert Sauter, now Engineering Librarian at the University of Minnesota. Throughout, from the original compilations to the present, the several bibliographies have had the sympathetic support and encouragement of our School of Forestry. Dean Paul Dunn and Professor Walter F. McCulloch have given much assistance to the bibliography here published. Cost of publication has been shared equally by the Library and the School of Forestry. It is our hope to issue supplements from time to time to keep the record up to date. In order to make these supplements as accurate and as useful as possible it will be appreciated if users will call errors and deficiencies in the bibliography as now published to our attention.

It has, of course, been necessary for Professors Yoder and West to work from titles only in preparing the subject index. For those titles which were lengthy and descriptive there is reasonable assurance that the subject indexing is correct, especially since all theses which dealt with several subjects were cross-indexed. However, because of the cryptic nature of a number of titles, it has not been possible to do more than index them within the general field of the subject. For those titles dealing with a very minute subdivision of a general field indexing was done under a rather broad subject classification to avoid making the index too long and cumbersome. In spite of the limitations imposed by the method of its preparation the index is expected to be a very useful feature of the

bibliography,

As I have looked over this record of half a century of graduate work I have, as a layman, been impressed by the great progress

which has been made in Forestry and its allied fields and the substantial contributions which the graduate schools have made. All of us at Oregon State College have been pleased to record systematically the studies of the past fifty years as a further contribution to progress and advanced study and research.

December 1953

Wm. H. Carlson Director of Libraries

Forestry Theses, 1900-1952

UNIVERSITY OF CALIFORNIA

1916

Dunning, Duncan. A working plan for the Del Monte Forest of the Pacific Improvement Company.

Muzzall, Alexander Harrison. The management of redwood.

3. Krueger, Myron Edward. The bishop pine.

4. Lott, Hugh Carlin. The production and viability of redwood Sequoia sempervirens seed.

1924

5. Barnes, John Scott. Redwood growth studies: I. The relative volume production of sprouts and seedlings in second growth. II. The height growth of young redwood in mixtures. III. A site classification for virgin stands.

Pemberton, James Emmons, Jr. The relation of bark to total volume

in coast redwood Sequoia sempervirens Endl.

7. Stanford, Everett Russell. A short history of California lumbering including a descriptive bibliography of material on lumbering and forestry in California.

1925

- 8. Grasovsky, Amihud. Climate in relation to timber and forage production under natural conditions.

 Jacobs, Allen Walter. Hastening the germination of sugar pine seed.
 Miller, William Bryon. Sheep production on the California National Forest.

1926

11. Edwards, William Grimm. The hardwood-using industries of the San Francisco Bay region.

12. Siggins, Howard William, Dissemination by wind of seeds of important conifers of California.

13. Weber, Arnold Newton. Redwood cut-over lands and their use..

Harper, Verne Lester. The stem form of red fir Abies magnifica Murr.

15. Harris, Marion Reinoehl. A grazing management plan for the Berkeley hills.

16. McLeod, Kenneth. Deer in their relation to man and forest.

1928

17. Cowlin, Robert William. The wholesale middleman in the lumber industry.

18. Geltz, Charles Gottlieb. Semesan and uspulun for the control of "damping-off" and as a stimulus to germination.

19. Horning, Walter Harold. The rôle of bunching in tractor logging.

20. Wright, Andrew Dixon. An ecological study of Baccharis pilularis.

21. Wright, Ernest. The viability of native and exotic seed exposed to high temperatures.

1929

22. Allen, Urban Charles. Balancing farm and forest crops through proper use of land.

23. Craddock, George Washington. The successional influence of fire on the chaparral type.

24. Gustafson, Carl Alexander. A study of the discoloration of painted surfaces on sugar pine and redwood.

25.* Lowdermilk, Walter Clay. Factors affecting surface run-off of rainfall and the surface erosion of soil profiles.

26. Parker, Kenneth William. Growth of Stipa pulchra and Bromus

hordeaceus as influenced by herbage removal.

27. Sinclair, Jesse Donald. A study of plant development in different soil horizons.

28. Wilson, Earl Gordon. The stem form of Douglas fir.

1930

Barnes, George Hector. The development of even-aged stands of lodge-pole pine in British Columbia.
 Hughes, Bennett Owen. Factors affecting cost of logging with fair-

lead arch wheels.

31. Neetzel, John Raymond. A study of the root development of western yellow pine seedlings in relation to the distribution of water in the soil.

1931

32. Heyward, Frank deCaradeuc, Jr. The effect of a grass vegetation upon soil moisture.

33. Mirov, Nicholas Tiho. Methods of oleoresin distillation of California

owe, Johan Lund. The effect of nitrification upon the vegetation and forest reproduction in some of the California pine forests.

35. Plair, Theodore B. Some factors affecting the cost of bucking in the California pine region.

Spence, Liter E. The use of hygrometric paper as an index of the loss of water through transpiration of selected plants.

37. Swift, Lloyd Wesley. Factors influencing the succession of brush and grass communities in a delimited habitat.

1932

38. Freeman, John Redford. A study of sugar pine with emphasis on properties and uses.

 Li, Teh-i. Seasonal distribution of soil moisture in woodland, brush, and grass associations of the central Pacific Coast region of California.

40. Morris, William Griffith. The effect of high temperature and moisture content upon seed from Douglas fir and western yellow pine.

1933

41. Curry, John Robert. Some applications of statistics to the analysis of forest fire data.

^{*} Doctoral dissertation.

 Davis, Wendell Erving. Growth rings of certain conifers and their relation to precipitation and temperature.

43. Garland, Hereford. The possibility of charcoal as a pulverized fuel.

1934

 Robertson, James Campbell Hay. Relative transpiration of seedlings of certain coniferous species.

45. Swensen, Marriner. A study in delayed germination of sugar pine seed.

1935

 Darling, Louise Marie. Protocoronospora on Phoradendron flavescens in California.

 Mitchell, John Nelson. The comparative histology of the secondary xylem of Sequoia gigantea and Sequoia sembervirens.

48. Spassky, Boris Alexander. The development of ponderosa pine seedlings under the different conditions of illumination and soil moisture.

1026

49.* Isenberg, Irving Harry. Chemical studies on the wood of white fir Abies concolor.

50.* Mirov, Nicholas Tiho. The relation of some internal factors to the germination of seeds of Pinus jeffreyi Murr and Pinus lambertiana Dougl.

1937

51.* Cox, John H. Organization of the lumber industry in the Pacific Northwest 1889-1914.

52.* Shirley, James Clifford. The woody plants of Oklahoma.

 Smith, Donald Johnson. Leaf spot diseases of Platanus species caused by Stigmella and Stigmina species.

1038

54.* Linsley, Earle Gorton. The Cerambycidae of California.

1939

 Gressitt, Judson Linsley. The hispine beetles of China (Coleoptera: Chrysomelidae.)

56.* Jensen, Vernon H. Labor relations in the Northwest lumber industry.

57.* Josephson, Horace Richard. Factors affecting costs and returns of timber production in second growth pine stands of the Sierra Nevada foothills.

 Kelly, Thomas Smith. The marketing of redwood lumber through wholesale middlemen.

 Stahler, Nathan. A comparative morphological study of two species of Heliothis (Lepidoptera: Noctuidae).

1940

60. Fons, Wallace Leo. Analytical considerations of model forest fires,

 Horton, Jerome Swift. The sample plot as a method of quantitative analysis of chaparral vegetation in southern California.

62.* Olson, Alven Jennings. A root disease of Jeffrey pine and yellow pine trees at Lasco, Lassen County, California.

 Weidberg, Dorothy. The history of John Kentfield and Company, 1854-1925, a lumber manufacturing and shipping firm of San Francisco.

^{*} Doctoral dissertation.

- Anderson, Henry Walter. Soil freezing and thawing as related to some vegetation, climatic and soil variables.
- 65. Day, Maurice W. The control of certain shrubs in the Lake States.

1948

- Fenley, John Morris. An airplane seeding experiment on ranges of deciduous cover of central Utah.
- 67. Hervey, Donald Franklin. Reaction of an annual-plant community to fire.
- Marston, Richard B. Effects of contour-trenches and vegetational recovery upon the hydrologic characteristics of Parrish Basin, Utah.
- Mezger, Robert William. The effect of spacing on the growth of ponderosa pine.

1949

- 70. Badran, Osman A. Maintenance of seed viability in closed cone pines.
- 71. Hedrick, Donald. Reseeding burned chaparral lands.
- Street, James Eugene. Survival of brush seedlings on California game ranges.

1950

- Blanford, Robert Howard. The water economy of two species of chaparral growing on two soil types.
- Burton, Robert Edward. A study of the problems related to the peeling of bark from second-growth redwood.
- Packer, Paul Earl. Development of requirements for effective watershed protection.
- Rogers, Bruce Joseph. The effect of fire on the germination of seed of Arctostaphylos viscida Parry.
- Schubert, Gilbert Herman. Viability losses of sugar pine Pinus lambertiana Dougl. seed infected with certain fungi.

1951

- Bissell, Harold Deane. Nutritive value of winter deer browse with respect to burning and growth stage.
- 79.* Duffield, John Warren, Interrelationships of the California closed-cone pines with special reference to *Pinus muricata* D. Don.
- 80. Edmunson, George Coleman. Mulch as a criterion of range condition classification.
- 81.* Taber, Richard Douglas, The influence of chaparral management on Columbian black-tailed deer populations.
- 82.* Zobel, Bruce John. The natural hybrid between Coulter and Jeffrey pines.

- 83.* Habib, Philip Charles. Some economic aspects of the California lumber industry and their relation to forest use.
- 84. Spivey, Walter Ray. The role of miner's lettuce, Montia perfoliata (Donn) Howell, in California burned brushlands.
- 85. Tackle, David. The value of site preparation as related to ground-cover density in natural regeneration of ponderosa pine.
- Zinke, Paul Joseph. Factors useful in the determination of site quality of unstocked timberlands.

^{*} Doctoral dissertation.

COLORADO AGRICULTURAL AND MECHANICAL COLLEGE

1932

87. Morris, Melvin S. Forage value of chaparral.

88. Stoddart, Laurence A. Methods of determining range capacity.

1947

 Bement, Robert Earl. Ranch management plans for five cattle ranches in northern Colorado.

 Cravens, Jay H. Progress report on Forestry research project 70, preservative treatment of fence posts. Fort Collins, Colorado Agricultural Experiment Station.

91. Dils, Robert E. Instructions for lodgepole pine timber surveys.

92. Dils, Robert E. Outline for a five-day guard field training course.

93. Herman, Francis R. An erosion survey of the lower Gordon Creek watershed, Poudre River drainage, Larimer County, Colorado.

94. Myers, Clifford A., Jr. Snow surveys and forest management in the Rocky Mountains of Colorado.

95. Wandrey, Clarence J. History and development of farm woodlands.

Wilson, Robert Lee. Grade standardization of forest planting stock.
 Wilson, Robert Lee. Interest measurements of forestry students.

1948

98. Barrett, Austin D., Cravens, Jay H., Dewers, Robert S., and Wylie, Aubrey, Report on Colorado blue Picea pungens timber testing project. (This is a master's thesis for Barrett and Wylie)

99. Black, R. J. An annotated bibliography of forest-game management

literature since 1930.

 Clevenger, John C. Prediction of success in the division of forestry, Colorado A & M College.

101. Dewers, Robert S. A problem in the tight cooperage industry; Concerning the diminishing supply of white oak.

102. Orr, Howard K. A study of correlation of streamflow with precipitation.

103. Porter, Ivan R. Methods of propagating range plants.

104. Shields, C. A. Forest fire insurance.

105. Singh, Saranjit. Forecasting maximum probable precipitation.

 Smith, P. C. A study of modern wood-working adhesives and gluing techniques.

 Strawn, William W. Some effects of sagebrush fires on seed and plant succession.

1949

Comer, F. G. Logging damage in salvaging beetle-killed spruce stands.
 Green, D. A. The influence of cutting methods on lodgepole pine reproduction.

110. Gruenfeld, J. J. Winter logging and milling study in northern Colorado.

111. Johnston, Everett Lee. Wood waste utilization.

112. Landenberger, C. J. Utilization practices of selected lumber companies manufacturing ponderosa pine in Idaho and Washington.

113. Logan, J. F. Properties of synthetic resins used as wood-bonding adhesives.

114. Maxey, Clyde A. A study of the minute structure of woody browse plants.

115. Meeker, Victor K. Reproduction of Engelmann spruce in the central Rocky Mountains.

116. Mominger, L. V. An outline for logging an experimental watershed in the Rocky Mountain region.

117. Roberts, Paul B. White pine industry of Maine.

118. Singh, Satnarayan. Correlation of precipitation with tree rings.

1950

119. Boyd, Ray J. The influences of nail head size and slat thickness on the nail head pull-through resistance of native Colorado woods.

120. Brown, Harry E. A study of watershed conditions at the source of the Yangtze River.

121. Gause, Dwight W. Methods of using ammate crystals to kill ponderosa pine in the Southwest.

 McCaskill, James A. Forest taxation on the private forest lands of the eastern U. S.

123. Washburn, Richard I. Test of insecticides for the control of the Black Hills beetle Dendroctorus ponderosae Hopk.

124. Wiley, Kenneth N. The effect of bark beetle infestations on the quality of Engelmann spruce seeds.

125. Zink, Robert Cramp. An analysis of the development, organization, and future aspects of the nature interpretative field.

1951

 Denney, Richard N. Program for beaver administration and management in Colorado.

 Gilbert, Douglas L. Economics and related biology of the black bear in Colorado.

128. Holt, Burton P. Mountain climbing related to recreation program of our national parks and forests.

129. Remington, Jack D. Food habits of the marten Maries couring origenes (Rhoads) in Colorado as related to small animal availability.

UNIVERSITY OF CONNECTICUT

1942

130. Smith, Allan G. A wildlife management plan for the Lanier tract of the East Haddam Fish and Game Club.

CORNELL UNIVERSITY

1913

 Kinney, J. P. Forest legislation in America prior to March 4, 1789.
 (Published as: New York, Agricultural Experiment Station (Cornell) Bulletin 370, 1916)

1914

132. Hahn, Clarence S. Valuation of forest and pasture land.

- Guise, Cedric Hay. Possibilities of private forest management in New York State.
- 134. King, P. C. Principles of forest administration in selected countries of Europe, America, and Asia, with suggested application to China.
- 135. Lamont, John Donald. Methods of intensive reconnaissance.
- Paul, Benson Howard. An ecological study of typical forest plantations in New York State.
- 137. Steer, Henry B. Some problems of nursery installation with special reference to white pine in the Northeast.

1916

- 138. Fielding, Franklin Roderick. A silvicultural study of the hard maple with special reference to the F. A. Cutting tract in St. Lawrence County, N.Y.
- Graham, Samuel A. The biology and control of the white pine weevil Pissodes strobi Peck.
- 140. Haman, M. B. The use of commercial fertilizers in forest nursery practice.
- 141. Hu, Shien Sung. Conditions fundamental to reforestation in China with special reference to factors determining choice of species.
- 142. Maloy, Thomas Patrick. Treatment of cutover forests in the Adiron-dacks with particular reference to the F. A. Cutting tract in St. Lawrence County, N.Y.
- 143. Spamer, George Adam. Seed production of forest trees.

1917

- Millen, Frederic Hartwell. Artificial reforestation on the Luther Preserve, Saratoga County, New York.
- 145. Millen, Mabel Gertrude Beckley. A study of forest tree seeds with special reference to white pine Pinus strobus Linn.
- 146. Rogers, Ernest Cleveland. Delayed germination among the five-needled pines with particular reference to *Pinus monticola* Dougl.
- 147. Schleicher, Francis Grant. The staining and finishing of woods.
- 148. Stults, Herbert Milton. A critical discussion of state forestry laws.

1918

149. Kraus, Albert Abraham. A study of red pine with reference to its suitability for reforestation in Tompkins County, N.Y.

1920

- Coville, Perkins. Silvicultural problems in the management of forests of the Adirondack hardwood type.
- 151. Sweeny, Samuel Chadwick. Forest planting reconnaissance and survey.

- 152. Dain, Bryant Depew. Seed production of white pine Pinus strobus Linn. in the vicinity of Ithaca, N.Y.
- 153. DuMond, Frank Lee. A plan of forest administration in New York State.
- Ten Eick, Charles Watson. A plan of forest administration for Pennsylvania.
- 155. Vettel, Henry. The location, supply, and management of the chief pulpwood species in the United States.

- 156. Apgar, William Burnet. The administration of grazing on the National forests.
- 157. Bosworth, Henry B. Volume and growth studies of trees near Ithaca, with a detailed study of the Meade woodlot, cut in 1921-1922.
- 158. Franco, Felix (y Tolosa). The organization and regulation of tropical forests with particular reference to British India and the Philippine Islands.
- 159. Herbert, Paul A. Standing timber insurance.
- 160. Hine, Willard R. B. The pulp mills of New York State, with special reference to the available supplies of pulpwood.
- 161. Simonds, Walter Wesley. Natural regeneration on cut-over hardwood lands in the western Adirondacks.

- 162. Groenewald, Johan Andries. The growth and culture of Eucalypts.
- 163. Lumsden, George Q. Artificial reforestation in application to the principal timber species in the northeastern United States.

164. Curry, John R. A study of the growth of spruce and balsam in the Adirondacks.

1925

- 165. Cobb, Francis Ezra. A study of afforestation in the Great Plains region from its early settlement to the present time.
- Doppel, A. A. A study of the diameter growth of hard maple. MacMillan, Warren B. A silvicultural study of basswood.
- 167.
- 168. Wakeley, Philip Carman. Sustained yield management of New York State.

1926

- 169. Bump, Nelson Gardiner. Some observations on the germination of forest tree seeds and the early development of the seedlings.
- 170. Davis, James E. A study of the natural reproduction of eastern white pine Pinus strobus Linn.
- Hamilton, Neale Russell. The growth of white cak and red cak. 171.
- Teng, Shu Chun. Chinese forest conditions and recommendations for a 172. forest policy for China.
- 173. Uyl, Daniel Den. White oak and red oak in the Ithaca region-a preliminary silvicultural study.

1927

- 174. Erway, Edgar W. A study of the lumber industry and its merchandising problems.
- 175. Frank, Bernard. The utilization of beech, birch, and maple in the pulp and paper industry of the northeastern United States.
- 176. Smith, Harold Pitt. A study of the growth of hemlock in the Ithaca region.

1928

177. Kolbe, Ernest L. Taper and volume studies of basswood, white ash, and black birch in the Arnot Forest.

178. Moran, Wendell. A study of the growth of basswood in the Ithaca region.

179. Wilkins, Austin H. Diameter growth of commercial trees with special reference to current annual increment. Appendix: Diameter growth tables.

1929

180. Aughanbaugh, John E. A study of forest distribution on Dunkirk, Groton, and Lordstown soil types in the vicinity of Ithaca, N.Y.

 Beatty, David P. The Arnot Forest: its foundation for management.
 Gillett, Charles Alton. A survey of the wood-using industries of Broome, Chemung, and Tioga Counties, New York, with special references to the marketing and utilization of local woodlot products.

183. Rudolf, Paul O. A study of the seedling root systems of certain forest

urees.

 Spalteholz, C. O. R. The effect of soil covering on development of red pine.

 Wilcox, Ralph Furness. The financial management of the Arnot Forest, Schuyler County, N.Y.

1930

 Erdmann, Frederick John. The organization of the pulp and paper industry.

 Hedden, George W. Liberation and release cuttings in the northeastern United States.

188. Olsen, Carl Frederick. Volume increase in young pine—a statistical analysis of the rate of annual increase in foliage volume and an interpretation of its significance.

 Wilm, Harold Gridley. A study of fall and spring sowing and related problems of forest nursery practice.

1931

190. Hinkley, Kenneth Abbott. Nature and results of silvicultural treatment of two University woodlots.

 Switzer, Harry Diehl. Russian spruce—its quality, quantity, and economic significance.

1932

192.* Croft, Alfred Russell. Some aspects of the reforestation problem in the State of New York.

193. Donehower, Weston. A working plan for the Arnot Forest 1932-1942.

 Maisenhelder, Louis Carl. A study of the growth of spruce and fir in the central Adirondacks.

195.* Wilm, Harold Gridley. The relation of successional development to the silviculture of forest burn communities in southern New York.

196. Wilm, Harold Gridley. Addendum to the thesis "A study of fall and spring sowing and related problems of forest nursery practice."

1933

 Camp, John Robert. Some preliminary studies relating to forest fire weather.

198. Chapel, William Lincoln. Recreational use of public forests.

^{*} Doctoral dissertation.

199. Cutler, Donald D. The effects of moist cold storage on the after-ripening and germination of the seeds of some broadleaf species.

200. McConkey, Thomas W. The relation of forest planting in New York

State to future utilization of the crop.

201. Richey, A. Lynn, Jr. An analysis of survey methods as applied to young evenaged timberlands.

1934

202. Afanasiev. Michel M. The portable sawmill: a study of equipment. operating methods, results, and costs.

203. Chaikin, Leon Edward. A statistical analysis of timber estimating in

the hemlock-hardwoods type.

204. Pond, James Dimbar. A method of determination of the cull per cent of beech in second growth stands in southwestern New York.

1935

205. Meagher, George Shaw. Forest management in a hardwood slope forest of western New York.

1936

Crandall, Vine. A study of the Cotton and Hanlon Lumber Company.

Howard. Richard Frederick. A stock inventory of the Arnot Forest. 207.

208. Meyer, Emil Francis. A plan for the development of the proposed addition to the Arnot Forest.

Parsons, George. Hardwood log grading in central New York.
 Wang, Yen-chieh. Some results of germination tests on seed of the 1935 crop.

1937

211.* Afanasiev, Michel M. A physiological study of dormancy in seed of

Magnolia acuminata L.

212.* Diebold, Charles Harbon. Some interrelationships between soil characteristics, water tables, soil temperature, and snow cover in the forest and adjacent open areas in south-central New York. Supplement to thesis, Appendices—soil profile descriptions, pH, snow cover, water table, and soil temperature data recorded in forest and adjacent open area in south-central New York.

213. Mols. Herbert Joseph. Hardwood utilization in the Adirondacks.

214. Rotundo, Frank Alorino. The recreational management of public forests including a recreational management plan for the Ten Mile River Reservation, New York.

215. Van Order, Robert Arthur. An analysis of the growing stock in per-

manent sample plots at the Arnot Forest.

216. Winch, Fred E., Jr. The establishment, survival, and early development of broadleaved plantations in New York State.

1940

217.* Beekey, Cyrus Ezra. The relation of environment factors to periodic fluctuation of the invertebrate fauna of forest soil.

218. Brown, Babette Isabelle. The history and development of the nature

trail idea in the United States.

219. Cooke, Emmy Lou. A study of the materials and methods of nature study in camps as shown by literature on the subject.

^{*} Doctoral dissertation.

- 220.* Osterbert, John Oscar. A study of methods of measuring soil pressures and their relation to soil properties.
- 221. Petrides, George Athan. A study of hedgerows in winter and their relation to wildlife in central New York State.
- 222. Richard, Joseph Aurele. Forest type as related to certain soil characteristics in Kamouraska County, Quebec.
- 223. Thomson, Shella Margot, Four contributors to the American Nature Movement.
- 224.* Vessel, Matt Frank. A study of conservation education in the rural areas of the United States.

- 225. Abel, George W. Factors influencing the natural establishment of hardwoods on abandoned fields in south central New York.
- 226.* Cady, John Gilbert. Some relationships between forest type and certain chemical and mineralogical properties of podzol and brown podzolic forest soil profiles.
- 227.* Rayner, Hedley John. The development of a management policy for the rainbow trout of the Finger Lakes.
- 228.* Thurber, Walter Arthur. A study of the activity-suggestions in courses of study in nature study and elementary science.

1942

- 229.* Cox, Leland G. Physiological study of dormancy in red oak and other hardwoods.
- 230.* Smith, Ralph Albert. The biology of a small mammal community in a central New York woodlot.
- 231.* Tryon, Clarence Archer, Jr. The biology of the pocket gopher Thomomys talpoides.

1943

- 232. Isfort, Louise Gertrude. A partial bibliography of the natural history of the Chicago region.
- 233. Potter, Mabel Annie. A study of the distribution of the woody plants of Adams Mountain and vicinity, Franklin County, Mass.

1945

- 234.* Hagman, Lyle Everest. Feeding habits and related activities of the two elm scolytids.
- 235.* Johannesson, Bjorn. The effect of soil volume on plant growth.
 236. Logan, Stanley Harold. The literature of stream improvement work and suggestions for increasing the carrying capacity of Six-Mile Creek.
- 237. Lugo-Lopez, Miguel A. A study of the agriculture of Puerto Rico with special emphasis on soil erosion.

- 238.* Hopson, Ruth Edwinna. The study of a valley. The McKenzie River region of Oregon, with special reference to the educational significance of its natural history.
- 239. Robas, John Stoddard. A method for determining the effect of streamimproved devices upon the composition of stream bottom materials.

^{*} Doctoral dissertation.

240.* Foster, Dwight Livingstone. Hardwood tree growth on three soil types in central New York.

241.* Plath, Clarence Vinton. An analysis of the economic land classification in Northern Livingston County, New York and a proposed method for future classification.

242.* Turner. David Binnie. Professional opportunities in the fish and wildlife field.

243.* Westfall, Minter Jackson, Jr. A preliminary biological survey of a central New York woodlot with special reference to its use to naturalists and in the training of naturalists.

1948

244.* Bump, Nelson Gardiner. Wildlife habitat changes on the Connecticut Hill game management area over a twenty-year period and their effect on certain species of wildlife.

245. Chen, Chih. Soil and water conservation in the loess plateau of north-

west China.

246.* Jameson, Everett William, Jr. Some factors influencing the local distribution of and abundance of woodland small mammals in central New

247.* Stone, Earl Lewis, Jr. The relation of mycorrhizae to the phosphorus nutrition of Monterey pine.

1949

248.* Clark, Wilson Farnsworth. National parks survey. The interpretive programs of the national parks; their development, present status, and reception by the public.

249.* Houck, Warren Jacob, Jr. A study of conservation education on the wildlife refuges of the United States. A report and recommendations.

250.* James, Pauline Ina. The role of radio in conservation education.

251.* Nelson, Arthur Hansen. A study of conservation education in the junior colleges of the United States.

252. Pistilli, August Donald. The design and construction of the small earth

253.* Ross, Helen Beaumont. A study of conservation education in the elementary schools of the United States.

254.* Warner, Claude Kent. Conservation and science education in teacher training institutions.

255.* Will, Emery Lewis. A study of conservation education in the secondary schools of the United States.

1950

256.* Owen, Oliver Sylvanous. The bird community of an elm-maple-ash

swamp in central New York.
257.* Roecker, Robert Maar. The biology of the northern gray squirrel Sciurus carolinensis leucotis (Gapper) in central New York.

258.* Yerger, Ralph William. The biology of the chipmunk Tamias striatus lysteri in central New York, with special reference to home range and territoriality.

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- 540. Thornton, Ernst Seeman. A time and cost study of labor on nine pulpwood operations in the Southeast.
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- 1324. Foreman, Byron L. Lodgepole pine and the potential pulp industry in Montana.
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- 1326. Walker, William R. Western larch: weed or timber species?

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- 1328. Asher, Lowell Otis. A study of the winter food habits of deer in the Rattlesnake Creek drainage.
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1337. Cless, G. H. Jr. Report on public schools in relation to state forest planting.

- 1338. Nix, L. A. A study of the box making industry in Syracuse, New York.
- 1339. Sweet, C. V. Role of Schizophyllum commune Fr. in the destruction of woody stems.

- 1340. MacNab, A. J. Jr. A study of the insects attacking the white pine Pinus strobus as found in Onondaga and St. Lawrence Counties, N.Y.
- 1341. Stage, H. H. A study of the insect fauna of the American larch Larix laricina as found in Eric Co., New York.
- 1342. Van Horn, C. W. The history and development of the garden city movement.

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1343.* Rhoads, A. S. The biology of Polyporus pargamenus Fries.

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- 1344. Cuno, J. B. A study of the anatomical features including fiber lengths of yellow birch wood Betula lutea Michx.
- 1345. De Smidt, W. J. Studies of the distribution and volume of the wood rays in slippery elm *Ulmus fulva* Michx.
- 1346. Lodewick, J. E. Some aspects of the decay of wood pulp.

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- 1348. Cline, A. C. Sample plot studies of immature conifers. Rockwell Springs Experiment Station.
- 1349. Foster, C. H. A key to the woody seed plants of Onondaga County.
- 1350. Gast, P. R. Observations on physiology of Polystictus versicolor Fries.
- 1351. Meloney, H. M. A conspectus of the important commercial timbers of the world exclusive of North America.
- 1352. Mundinger, F. G. The life-history of the two nabids—Nabis roseipennis Reut and Nabis rufusculus Reut.

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- 1354. Dean, D. C. The wholesale distribution of lumber with especial reference to New York State.
- 1355. Gemmer, E. W. Effect of some climatic factors upon the growth of forest trees on burned over lands.
- 1356. Kassing, B. L. An investigation of certain factors influencing rosin sizing.
- 1357. Mabesa, Calixto. Studies on the steaming of lumber.
- 1358. Raupach, C. V. A morphological study of upland and lowland woods.

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- 1360. Eliason, E. J. The comparative virulence of certain strains of Pythium debaryanum in direct inoculations of coniferous seedlings.
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- 1362. Kang, M. H. The application of the deVains process to the pulping of birch wood . . .
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- 1366. Titus, R. T. Southern yellow pine and Douglas fir lumber.
- 1367. Van Giesen, C. L. Growth study on coniferous plantations at Great Bear Springs.

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- 1368. Harlow, W. M. The effect of site on the structure and growth of white
- 1369.* Hirt, R. R. The biology of *Polyporus gilvus* (Schw.) Fries. 1370. Jahn, E. C. The isolation, analysis, and chemistry of cellulose from red spruce.
- 1371. Johnson, R. A. A study of the natural history of the ruffed grouse of Syracuse.
- 1372. Lincoln, W. J. "Pines for pattern" with especial reference to their competition and uses in states of New York and Pennsylvania.
- 1373. MacAndrews, A. H. The biology of the southern pine beetle.
- 1374. Percival, W. C. The extent of decay in sound hardwoods caused by Coprinus micaceus Fries.

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- 1376. De Leon, Donald. A preliminary study of the digestive tract of Rhagium lineatum Oliv.
- Garin, A. N. Studies on steam consumption in drying lumber. 1377.
- 1378. Hayward, P. A. A comparative study of the varieties of Liquidambur styraciflua.
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- 1380. Morgan, H. W. The effect of hydrogen ion concentration on the hydration of cellulose.
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Nims, C. E. Studies of bark thickness of northeastern timber trees.

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1408. Sammi, J. C. Yield predictions for pulpwood following cutting for New York State.

1409. Thomas D. R. Effect of preliminary air pressure on adsorption and penetration of coal tar creosote in beech.

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1410. Anthony, James H. Forest roads with special reference to their significance in the handling of forest properties.

1411. Arnold, F. H. The influence of spacing upon branch and knot development in pure plantations of white, red and Scotch pine.

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Batterson, L. J. The determination of the best preliminary humidity 1413. treatment to use in kiln drying oak which has been surface checked in air seasoning.

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1415. Fortin, J. B. Some of the silvicultural aspects of pure versus mixed planting.

1416. Gustin, H. E. Effect of moisture content upon adsorption and penetration of creosote in beech at moisture contents ranging from 25% to 8%.

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Maughan, K. O. Recreational development in the National forests. 1421.

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1457. Kilgore, W. E. Needle structure of Pseudotsuga Carr. species and some varieties, and its value in classification.

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1459. Kowal, R. J. Biology and control of Brachyrhinus ovatus (Linn.) on coniferous nursery stock.

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- 1466.* Anderson, O. C. The resistance of the Viking currant to Cronartium ribicola Fischer.
- 1467. Bennett, W. H. The ecology of the pine needle miner Paralechia pinifoliella Chambers.
- 1468. Carlberg, Herbert. A survey of the diseases of trees in the Morningside cemetery and a section of Onondaga Park.
- 1469. Cron, Robert, A management plan for the Huntington Wild Life Forest Station.
- 1470. Defler, S. E. Black cherry; characteristics, germination, growth, and yield.
- 1471. Egan, J. A. In-service training in forestry.
- 1472. Fowler, R. M. The merchandising of Idaho white pine.
- 1473. Kropscott, E. L. A study of reactions of lignin in liquid ammonia.
- 1474. Lewis, J. B. Submarginal agricultural land problems with special reference to the State of New York.
- 1475. Mosher, M. M. A study of boards and commissions in state forest administration.
- 1476. Rich, J. H. A master forest working plan for the Sawmill River watershed.
- 1477. Rulison, D. E. A study of the status of farm woodlands in Onondaga
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- 1482. Ceder, J. W. The wood and fibre box.
- 1483. Compton, K. C. The effect of refined coal tar as a diluting agent for coal tar creosote upon the absorption and penetration in beech,
- 1484. Craig, J. W. Rooting response of stem cuttings of black and shipmast
- 1485. Davis, William. The effect of hydrogen ion concentration on the chemical properties of bleached sulfite pulp.
- 1486. Donohue, R. F. Ecological studies of Thuya occidentalis L. in central New York State.
- 1487.* Fegel, A. C. A comparison of the mechanical and physical properties and the structural features of root-, stem-, and branch-wood.
- 1488. Freeman, R. D. Proximate analysis of the heartwood and sapwood of some American hardwoods.
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- 1520. Kuhns, L. H. A comparative study of the flame penetration in plywood and solid wood.
- 1521. Lischer, W. J. A study of tree value as indicated by external characteristics of eastern white pine.
- 1522. Lyon, E. L. Seasonal variations of relative humidity.
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- 1527. Studeny, John. The suitability of red pine . . . for the manufacture of sulphite pulp.
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1611.* Richards, D. B. Progressive changes in the physical properties of wood with advancing decay.

1612. Samler, O. B. The determination of minimum curingtimes in edge gluing core stock with radio frequency power at several radio frequency voltages.

1613. Strong, D. E. Determination of the growth of northern hardwoods on the Huntington Forest.

1614* Wylie, A. E. A statistical study of small dimension yield from hard maple Acer saccharum Marsh.

1615. Yang, H-C. The influence of kraft pulp properties on wet-strength development by urea-formaldehyde resin.

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- 1617. Jen, Yun. The bleaching of coniferous mechanical pulp with chlorine compounds.
- 1618. Kyi. M. B. Ammonium sulphide pulping of bamboo.
- 1619. Marander, M. P. Studies on the beater addition of phenol-formaldehyde resins.
- 1620. Meyer, E. H. The determination of the reactivity ratios of isoprene and alpha vinylthiophene.
- 1621. Prange, G. F. Laminated rifle stocks; An evaluation of laminated construction considering variation in center-of-impact and economy of manufacture.
- 1622. Ter Bush, F. A. Southern pine prices and business cycles, 1904-1941.
- Van Etten, R. C. The ecology and population distribution of the eastern 1623. chipmunk Tamias striatus lysteri on the Huntington Forest,
- 1624. Walker, G. F. Aerial photogrammetry as an aid in the performance of some functions of county governments.
- 1625. Willard, E. B. Hosteling, U. S. A.

- 1626. Bray, Ira L. An analysis of summer recreational use of the Adirondack Forest Preserve with special emphasis on campsites and trails.
- 1627.* Blenis, Henry. The cost of bulldozed woods road construction as a part of forest management,
- 1628. Christman, R. Don. Reforestation of bracken fern areas.
- 1629. Eldridge, David Crocker. An economic survey of the wildlife of Lewis County, New York.
- 1630.* Farrell, John. A survey of professional attitudes toward public forest regulation in the United States.
- 1631. Ferree, Miles Joseph. A method of estimating timber volumes from aerial photographs by measuring tree crown images.

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- 1633. Hoyle, Robert J., Jr. A study of heat recovery from the vented air of dry kilns.
- 1634. Hughes, William George. An attitude survey of the employees of the Oregon State Forestry Department.
- 1635.* Larson, Charles Conrad. Government and the small forest holding: a study of the administration of the governmental program for farm and small nonfarm woodland owners.
- 1636. Lorey, Frank William. An investigation of methods for dimensionally stabilizing paper.
- Nash, Andrew Joseph. Construction and application of air survey 1637. volume tables.
- 1638. Patric, Earl Francis. A beaver management program for the Huntington Forest,
- 1639. Pentoney, Richard E. Transverse dimensional stability of Douglas fir springwood and summerwood.
- 1640. Rosasco, Edwin Mark. A preliminary study on the effects of sodium arsenite, used as a chemical debarking agent, upon wildlife and wildlife environments.
- 1641. Sabin, Walton B. An evaluation of the ecological niches of certain permanent resident birds on the Three Rivers Game Management Агеа.

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- 1642.* Samson, Nelson Titus. The source, character and quality of the woods labor force in forestry operations in Herkimer County, N.Y., in 1951.
- 1643. Sirvin, Michel. The chemical properties of balsa.

1644.* Stark, Eric W. Wood anatomy of the Juglandaceae, Betulaceae, Magno-liaceae and Aceraceae indigenous to the United States.

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NORTH CAROLINA STATE COLLEGE OF AGRICUL-TURE AND ENGINEERING OF THE UNIVERSITY OF NORTH CAROLINA

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1647. Pruitt, Austin Agnew. A study of the effects of soils, water table, and drainage on the height growth of slash and loblolly pine plantations on the Hofmann Forest.

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- 1648. Barber, John Clark. The control of various species of hardwood brush with 2,4-D and 2,4,5-T applied to freshly cut stumps during the dormant season.
- 1649. Barefoot, Aldos Cortez, Jr. Analysis of mis-manufacture by small sawmills as revealed by statistical quality control techniques.
- 1650. Boyce, Steve Gaddy. Plant succession in thinned loblolly pine stands of a Piedmont county.
- 1651. Carter, Don Eugene. Extraction of tannin from pine bark.
- 1652. Dellinger, Henry Clinton. Bark application of silvicides in hardwood control.
- 1653. Ginn, Thomas Joseph. Application of statistical quality control techniques to furniture machining operations.
- 1654. Stecher, Donald Adolph. The application of statistical quality control techniques to small sawmill operations.
- 1655. Stains, Howard James. An economic survey of North Carolina's wildlife resources.

- 1656. Basse, John David. Initial influence of fire on the regeneration of pond pine.
- 1657. Moore, Raymond Anderson. Some factors which influence the initial
- moisture content of yellow poplar veneer.

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- 1659. Baker, William Jennings. The utilization of tanbark oak.
- 1660. Fox, Charles White. The kiln drying of Oregon soft-woods.

1661. Brandeberry, Jason Kermit. Economic factors affecting lumber price in the Pacific Northwest.

- 1662. Voorhies, Glenn, Kiln drying problems in the Douglas fir region.
- 1663. Wilson, Sinclair Albert. Permanency in Oregon's forest industry.

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- 1664. Kearns, Richard S. The relation of air circulation to kiln drying of lumber.
- 1665. McDaniel, Vern E. Nursery practice on the Oregon forestry nursery.
- 1666. Miller, Vondis Elbert. A management plan for the Peavy Arboretum and school forest.

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- 1667. Evenden, Robert Murray. A study of constant humidity and temperature schedules in the drying of Douglas fir.
- 1668. Kimmey, James William. A pathological survey of the Peavy Arboretum.

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- 1669. Fowells, Harry Ardell. A study and summary of the investigational activities on the McDonald Forest with recommendations.
- 1670. Lowden, Merle Stephen. Use of the equilibrium moisture content principle in the kiln drying of Douglas fir.
- 1671. Mielke, James Leroy. Relation of Ribes lacustre to management of western white pine.

- 1672. Hunt, Lee Oscar, Ecological anatomy of woody plants with special reference to leaf variations.
- Nelson, Everald Elmer. A method for predicting the drying times for 1673. Douglas fir heartwood. Parker, John Raymond. The grasslands of North America.
- 1674.
- Tiedemann, Henry. The establishment of Douglas fir reproduction in 1675. relation to certain natural environmental factors.

- 1676. Cronemiller, Lynn F. State forestry in Oregon.
- Evenden, James Cawston. Effects of defoliation by the pine butterfly 1677. Neophasia menapia Felder on the basal increment of ponderosa pine.
- Feiss, Sherman Hinton. The application of stand improvement measures 1678. in Douglas fir and ponderosa pine types of the Pacific Coast.
- 1679. Schroeder, George Harwood and Thomas, G. M. The milling practices and silvicultural factors affecting forestry in Benton County, Oregon.

- 1680. Lammi, Joe Oscar. Article X of the lumber code in the Douglas fir region.
- 1681. Spaur, George. A study of the pulp and paper industry in Oregon in regard to land use.

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- 1682. Blackerby, Alva. A method of rating forest service employees.
- 1683. Matthews, Donald Navarre. What can research contribute to the prevention of forest fires?
- 1684. Ponce, Guillermo. A study of motor truck log transportation in the Douglas fir region and its application to the Philippine logging industry.
- 1685. Wilson, Sinclair Albert. Mapping the status of tax-delinquent private lands and the location of public lands in the rural areas of Oregon.

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- 1686. Ash, Brittain Henshaw. Administration of a ranger district personnel.
- 1687. Drummond, John Paul. The possibilities of farm forest cooperatives in the Willamette Valley.
- 1688. Longwood, Franklin Russell. A land use history of Benton County, Oregon.
- 1689. Thomas, Harold Alexander. An in-service training program for the State Forestry Department.
- 1690. Voorhies, Glenn. Oil tar creosote for wood preservation.

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- 1691. Anderson, Wallace Edward. Farm forestry extension and its application in Oregon.
- 1692. Baker, Lyle Albert. Timber growing versus grazing on the nonforested areas of the McDonald Forest.
- 1693. Bond, William Merrill. A forest fire prevention program for Pacific Northwest forests.
- 1694. Caskey, Frank Edward. A study of the nature of benzyl alcohol lignin. 1695. Gurley, Wayne Ellsworth. A training plan for short-term forest guards on furlough status.
- 1696. Newberg, Arthur Joel. A plan for the marketing of housing units.
- 1697. Orell, Bernard Leo. An educational program for a standby forest fire suppression crew.
- 1698. Zach, Lawrence William. The effect of the synthetic plant hormones in the propagation of forest trees.

- 1699. Dunn, Lester Clayton, The role of subsidiary forest crops in Douglas fir forests.
- 1700. McKeown, Eugene. Recreational forestry as a career.
- Runckel, William Justus. A study of cuprammonium hydroxide and its 1701. application to the cellulose viscosity test of the pulp and paper industry.
- 1702. Wikstrom, John H. A method of appraising second growth Douglas fir in western Oregon.

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1703. Bailey, Warren Hutchinson. Forest education projects in secondary schools with recommendations for Grants Pass.

1704. Ebeling, Dick Winfield, The effect of high temperatures on structural timbers.

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1706. Southworth, Hugh Alexander. The mechanism of the sulfonation of lignin as revealed by its reaction with methyl hypochlorite.

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1718. Brady, Roy Charles. A regional plan of fire protection for private industry in the Douglas fir region.

1719. Chatelain, Edward Frank. Food preferences of the Columbian blacktail deer Odocoileus hemionus columbianus (Richardson) on the Tillamook burn, Oregon.

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Graham, Robert Douglas. The effect of refining time and hot-pressing 1721. conditions on the properties of lodgepole pine fiberboard.

Kroll, Robert Louis. Carbonization products from Scholler lignin. O'Leary, John Elmer. Timber transportation costs in the California pine 1723. region.

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1727. Plankinton, Robert. Some aspects of the swelling of cellulose pulp in sodium hydroxide solutions and the influence of wetting agents thereon.

1728. Rydalch, Eva Ann. The determination of the approximate molecular weight, particle size, and homogeneity of some soda lignins.

1729. Wagg, John William Bruce. The formation of resin canals in the wood of Douglas fir as influenced by environment.

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1730. Cheng, Chi-shan. A preliminary investigation of the soaking treatment of black cottonwood and red alder fence posts in pentachlorophenol.

1731. Haydu, Eugene Peter. The effects of kraft mill waste effluents on king and silver salmon,

1732. Hubbard, James Kenneth. The distribution and properties of the tannin in Douglas fir bark *Pseudotsuga taxifolia* Britt.

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1735. Ousterhout, William Kimball. Wood molasses as compared to cane molasses in fattening rations for swine.

1736. Park, Jai Young. Growth and variability of Fomes pini in culture.

1737. Pehrsson, Hildger Alfred, Solvent extraction of lignin with dioxane.
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1741.* Jennings, Jack Hall. Variations in the cellulose chain-length distribution resulting from different pulping and bleaching operations.

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1743. Newport, Carl Allen. Diameter yield tables versus site index yield tables for western hemlock.

1744. Raphael, Harold James. The influence of depth of immersion on end penetration in Douglas fir heartwood when cold soaked in pentachlorophenol.

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- 1749. Howell, Wade Hampton. The efficiency of plots of various sizes and shapes in cruising second growth Douglas fir.
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- 1751. McKimmy, Milford D. An analysis of head-sawing operations at rep-
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- 1753. Robinson, Walter Lee. Application of western hemlock yield tables for Oregon and Washington to stands in Alaska and British Columbia.
- 1754. Smithson, John Lane. Occupational information concerning the lumber industry in Oregon.
- Stermitz, Robert Eugene. The relationship between log characteristics 1755. and lumber grade recovery from second growth Douglas fir.
- 1756. Whipple, Francis Oliver. The sodium xylenesulfonate pulping of northern black cottonwood.

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- 1757. Benson, Donald Dunbar. An analysis of deterioration in farm structures.
- Geiss, Almon Lewis. The effect of livestock production on reforestation of western Oregon marginal land.
- 1759. Hazarika, Indra Nath. A study of pulping processes in the United States with possibilities of application to Indian woods.
- 1760.* Kiefer, Harry John, Jr. The chemical composition of the bast fibers of Douglas fir bark Pseudotsuga taxifolia (Poir.) Britt.
- 1761. Mason, Nicholas Victor. Cutting priority in old growth stands of the Pacific Northwest.
- 1762. Michael, Lawrence Wesley. The development of grazing on cut-over lands of western Oregon and factors relative to their use.
- 1763. Packard, Patricia Lois. A key to the deciduous woody plants of northwestern Oregon in winter,
- 1764. Parks, Walter Howard. Formation of quality classes for second-growth
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- 1766. Tokos, George Mike. The nature of the chemical constituents of grand fir bark Abies grandis Lindl.
- 1767. Voorhies, Ray Van. Aerial photographs as an aid in preparing a management plan for the Blodgett tract.

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1768. McConnell, Wilbur Ross. Entomological instruction for students of forestry, with an outline of a course of study in forest entomology.

- 1769. Berry, J. B. Range management.
- 1770. Hartman, A. W. Economy in preserving timbers used for anthracite coal mines of Pennsylvania.

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1771. Work, Herman, Salmon National Forest; its resources and their relation to the community.

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1772. Dusham, Edward Henry. Contribution toward a monograph on the locust borer Cyllene robiniae (Forst.)

1773. Rhoads, Arthur Stevens. The black zones formed by some wooddestroying fungi.

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- 1775. McIntyre, A. C. Growth of certain conifers as influenced by different fertilizer treatment.
- 1776. Sandling, H. L. Effect of soil reaction on the growth of certain coniferous seedlings.

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- 1777. Eyman, W. G. Investigation of the accuracy of the Swedish bark measuring instrument.
- 1778. Ritter, Jeanette Gladys. Origin and development of tissues formed in the healing of wounds made by ringing woody stems.

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- 1779. Liefeld, T. A. A comparison of several methods of constructing taper and volume tables.
- 1780. Vogenberger, R. A. Sprouting capacity and sprout development in certain hardwood species of central Pennsylvania.

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- 1781. Allison, Jack. Development of forest fire fighting weapons.
- 1782. Griswold, V. A. Relation of drought to the death of trees .
- 1783. Sinzalis, Lawrence Leonard. Cultural characteristics of some wooddestroying fungi.
- 1784. Stone, L. H. A cone, seed and seedling study of Virginia pine Pinus virginiana Mill.
- 1785. Ziebarth, R. K. Relation of chipmunks Tamias striatus (L.) to forest reproduction.

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1786. Strohlein, Ida Rose. The use of sofronin and malachite green in the identification of timber decay fungi in culture.

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- 1787. Helimers, Henry. A study of the nutritive value of several of the natural winter foods of deer.
- 1788. Sacco, Paul. The effect of certain indole compounds upon cuttage.

- 1789. Rennard, Jacob Arthur. Reaction of some wood-decaying fungi on tamic acid medium.
- 1790. Shaw, Charles Gardner. Microscopic characteristics of some wooddecay fungi.

- 1791. Kuhn, Tracy Miller. Part I. Availability of mast for wildlife. Part II. Fall food habits of the ruffed grouse Bonasa umbellus umbellus.
- 1792. Norris, Russell Taplin. An ecological study of the relationships between forest types and the wildlife species found thereon.
- 1793. Studholme, Allan Taylor. Ruffed grouse Bonasa umbellus umbellus environment in the scrub oak-pitch pine forest type.

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- 1794. Jenkins, David Hall. Bob-white cover in Franklin County, Pennsylvania.
- 1795. Stein, Forrest Calvin. The flora of Schuylkill County, Pennsylvania.

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1796. Sylvester, Walter Robert. A bio-ecological study of the chestnut oak forest.

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1797. Spangler, Gilbert Penrose. Introduction, development and experimental investigations of natural rubber in Liberia. West Africa.

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- 1798. Gaidula, Peter, Jr. A standard form class volume table for white pine in central Pennsylvania.
- 1799. Ingersoll, Richard Howe. Veneer and adhesives; their manufacture, preparation and application in the plywood industry.
- 1800. Lindquist, John Linus. Management plan for the McCorkel woodland.
- 1801. Mellen, Robert Grant, Jr. Plywood adhesives.

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- 1802. Deitschman, Glenn Howard. Reforestation of strip-mined bituminous coal lands with special reference to Pennsylvania.
- 1803. Dotter, Henry Albert, Jr. Plywood adhesives.
- 1804. Forbes, Stanley Eugene. Experimental bulldozer operations for producing game food and cover on forested land.
- 1805. Griffin, Erastus Paul, Jr. A study of glue-bond quality in 3-ply cross-grained mahogany plywood.
- 1806. Harney, John Edward, Jr. The effect of forest cutting practices on deer browse in the chestmut oak Quercus montana type.
- 1807. Richter, Wilmer Cermak. Singing ground analysis and cover preference of the American woodcock Philohela minor in central Pennsylvania.
- 1808. Taras, Michael Andrew. The mechanical and physical properties of twenty-three Costa Rican hardwoods.
- 1809. Trost, Robert Walter, Jr. A preliminary study of the effect of compression failure on shear strength in laminated yellow poplar.
- 1810. Witherow, Boyd Manns. Lumber and its remanufacture; an inventory and directory of Pennsylvania wood using industries.

- 1811. Chamberlain, Everett Bacon, A study of bark volume in cordwood and pulpwood and other bark relationships.
- 1812. Early, Robert Clayton. Small game food and cover conditions produced by cutting practices in Virginia pine.
- 1813. Little, Lawrence David Jr. The responses of growing-wood cuttings to sand and vermiculite as propagating media.

- 1814. McGinnes. Burd Sheldon. The effect of forestry cutting practices on the production of deer browse in the Virginia pine Pinus virginiana
- 1815. Wilson, Alvin Kay. The humus content of forest soils on the Allegheny watershed.

- 1816. Ashley, Roger Herrick. The invasion and development of natural vegetation on spoil banks in central Pennsylvania.
- Cunningham, Gordon Rowe. A study of 23 Pennsylvania farm wood-1817. lands, 1946-1948.
- 1818. Enright, Leon J. A recreation survey of the borough of State College. 1819. Kemmerer, Harleigh Russell. The rooting response of evergreen cuttings
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- Niering, William Albert. The flora of Monroe and Pike Counties, 1820. Pennsylvania, preliminary survey.
- Parker, John M. Logging equipment used in the northeastern States. Russ, Darrell F. The effect of spacing on the growth and develop-1822. ment of Norway spruce in plantations.
- 1823. Wingard, Robert G. The life history and habitat of the northern gray squirrel in relation to some forest communities in Huntingdon County, Pennsylvania.

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- 1824. Byrnes, William Richard. The effect of soil texture on the occurrence and type of ground freezing.
- 1825. Coleman, Geoffrey Briscoe. A study of water infiltration into soil banks in central Pennsylvania.
- Keller, William Carl. A survey of volume and condition of farm 1826. woodlands in Centre County, Pennsylvania.
- 1827. Kirk, Charles Richard. A forest survey with particular reference to management types and development.
- 1828. Liscinsky, Stephen A. The life history and habitat of the northern gray squirrel in relation to some plant communities in Centre
- County, Pennsylvania.

 1829. Longwell, John Raymond. A study of seasonal activities and cover preferences of the American woodcock on a selected area in central Pennsylvania.
- 1830. McGinnes, Edgar A., Jr. A preliminary study of the shear strength of dowel joints.
- 1831. Nelson, Forrest Billings. Accuracy of gross growth determinations based on the measurement of increment cores.
- 1832. Orach, Stephen. Relationship between crown size, diameter and diameter growth of white, black and scarlet oak.

- 1833. Bascope-Vargas, Federico Eduardo. Strength and other characteristics of resorcinol glue lines.
- 1834. Bedell, Joseph Henry. A preliminary study of the effect of hole size on the strength of dowel joints in tension.
- 1835. Johnson James Edward. A study of form class in upland oak forests of central Pennsylvania.

- 1836. McCullough, James Matthew. An appraisal of deer damage to natural forest reproduction of fenced and unfenced plots in selected localities in Pennsylvania.
- 1837. Meyers, William Angove. The effect of brush control spraying on the species composition of a scrub oak community of a power line right-of-way in relation to its game food production.
- 1838. Stambaugh, William James. A study of needle cast diseases of conifers in Pennsylvania.
- 1839. Szpak, Charles Anthony, Jr. The effects of winter pruning white caks Quercus alba L. in relation to oak mast production.
- 1840. Tarr, Joseph A., Jr. The value of clear-cutting in strips to produce browse for deer in mixed oak forests over a fourteen-year period.
- 1841. Ward, Wilbur Wilson. Comparison of values obtained from the utilization of low grade oak trees for pulpwood, lumber, and cross ties.

PURDUE UNIVERSITY

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1842. Rodarmel, John Richard. Stress analysis in kiln dried American elm.

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- 1843. Arnott, Donovan, Jr. Initial survival of planted hardwoods on strip mine spoil banks of Indiana.
- 1844. Furlow, Edward Pennington. Central American veneer woods—an economic study.
- 1845. Packman, Robert S. Green-dry strength ratios and the effect of various influencing factors upon the strength of green sugar maple Acer saccharum Marsh.
- 1846. Scholten, Harold. Study of tree growth and water runoff on Purdue dairy farm watersheds,

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- 1847.* Suddarth, Stanley K. Cost minimization in the primary transport of forest products.
- 1848. McCoy, Farnest Wesley. An analytical comparison of grade yields and overrum in Indiana hardwood sawlogs.

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- 1849. Pickens, E. J., Jr. A preliminary survey of methods employed and certain cost factors associated with brush treatment in Texas.
- 1850. Schwinn, David S. The eradication of oak and yaupon on the range lands in the vicinity of College Station, Texas.
- 1851. Seidensticker, Elmer R. Comparison of weather in relation to vegetation in grassland and woodland types near College Station, Texas.
- 1852. Trew, Thad B. Natural succession of vegetation on abandoned farm lands in Brazos County, Texas.

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1853. Hendrix, Thomas F. The methods of eradication and control of certain brush species in the vicinity of College Station.

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- 1854. McLeod, C. M. Composition, yield, and utilization of forage in a pine-hardwood forest area of Angelina County, Texas,
- 1855. Waldrip, William J. Methods and results of chemical treatments on certain brush species in the vicinity of College Station, Texas.
- 1856. Wilson, Davis G. A study of the effects of methods of clearing ashe juniper on species composition and successional trends on cleared range lands in Kerr and Real Counties.

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- 1857. Frey, Wade K. Effects of herbicidal applications on common persimmon Diospyros virginiana.
- 1858.* Hedrick, Donald W. Studies on the succession and manipulation of chamise brushlands in California.
- 1859. Miller, William B. Utilization and composition of forage in a long-leaf pine-hardwood forest of Newton County, Texas.
- 1860. Rhodes, Robert R. The determination of the volumes of forage and timber produced in a pine-hardwood stand in Montgomery County, Texas.
- 1861. Seamans, Robert L. The determination of volumes of forage produced after one year of protection in pine-hardwood stand as compared with production under current grazing practices.

1952

1862. Anderson, David Adair. Grazing practices as a factor in fire occurrence in the coniferous forest area of southeast Texas.

UTAH STATE AGRICULTURAL COLLEGE

1939

- 1863. Griner, Lynn A. A study of the sage grouse Centrocercus urophasianus with special reference to life history, habitat requirements, and numbers and distribution.
- 1864. Hanson, W. R. Effects of grazing upon bunch wheat grass.

1941

1865. Bartels, Wilmur. Analysis of Rocky Mountain mule deer kill records of five-year deer removal from Logan River drainage of northern Utah.

- 1866. Cook, C. W. A study of the roots of Bromus inermis in relation to drought resistance.
- 1867. Norris, J. J. Botanical analyses of stomach contents as a method of determining forage consumption of range sheep.
- 1868. Smith, Justin Gardinar. A study of deer population on the Wasatch Game Preserve, Utali, 1934-1942.

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1946

1871. Cook, Clyde J. Utilization of northern Utah summer range plants by sheep.

1872. Janson, Reul. A survey of the native rabbits of Utah with reference to their classification, distribution, life history and ecology.

1873. McDonald, John E. Measuring the forage crop of range lands by vegetation analysis.

1948

1874. Green, Lisle R. Utilization of forage plants and diet of sheep on Utah winter range.

1875. Hubbard, William Aubrey. A study of the climate, soils, and soilplant relationships of an area in southwestern Saskatchewan.

1876. McIlvain, E. H. Differential germination and growth response of some important grass and forb seeds after treatment with 2,4-dichlorophenoxyacetic acid and diesel oil.

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1877. Frischknecht, Niel C. Seedling emergence and survival of sixteen grasses in central Utah.

1878. Hyder, Donald N. Emergence and survival of four introduced wheatgrasses as influenced by rate and season of planting on abandoned farm lands of Utah.

1879. Sharp, Lee. The diet and daily requirements of an experimental herd of sheep on Utah winter range.

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1880. Alhindawi, Ibrahim Y. 1. The nature of the gene. 2. An analysis of the validity of interpreting past climate by tree ring studies. 3. Plant diseases and insect problems in the middle eastern countries (Iraq, Palestine, Syria, and Lebanon).

1881. Hubbert, Ferris E., Jr. An evaluation of grazing treatments on Utah spring and fall range reseeded to crested wheatgrass, in terms of beef cattle gains, and nutrient trends of available forage.

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