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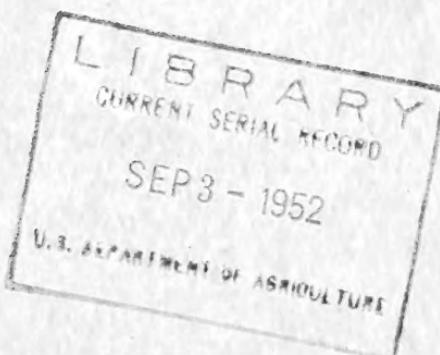
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Issued May 1952

THE FORESTS OF CONTINENTAL LATIN AMERICA
(Including European Possessions)

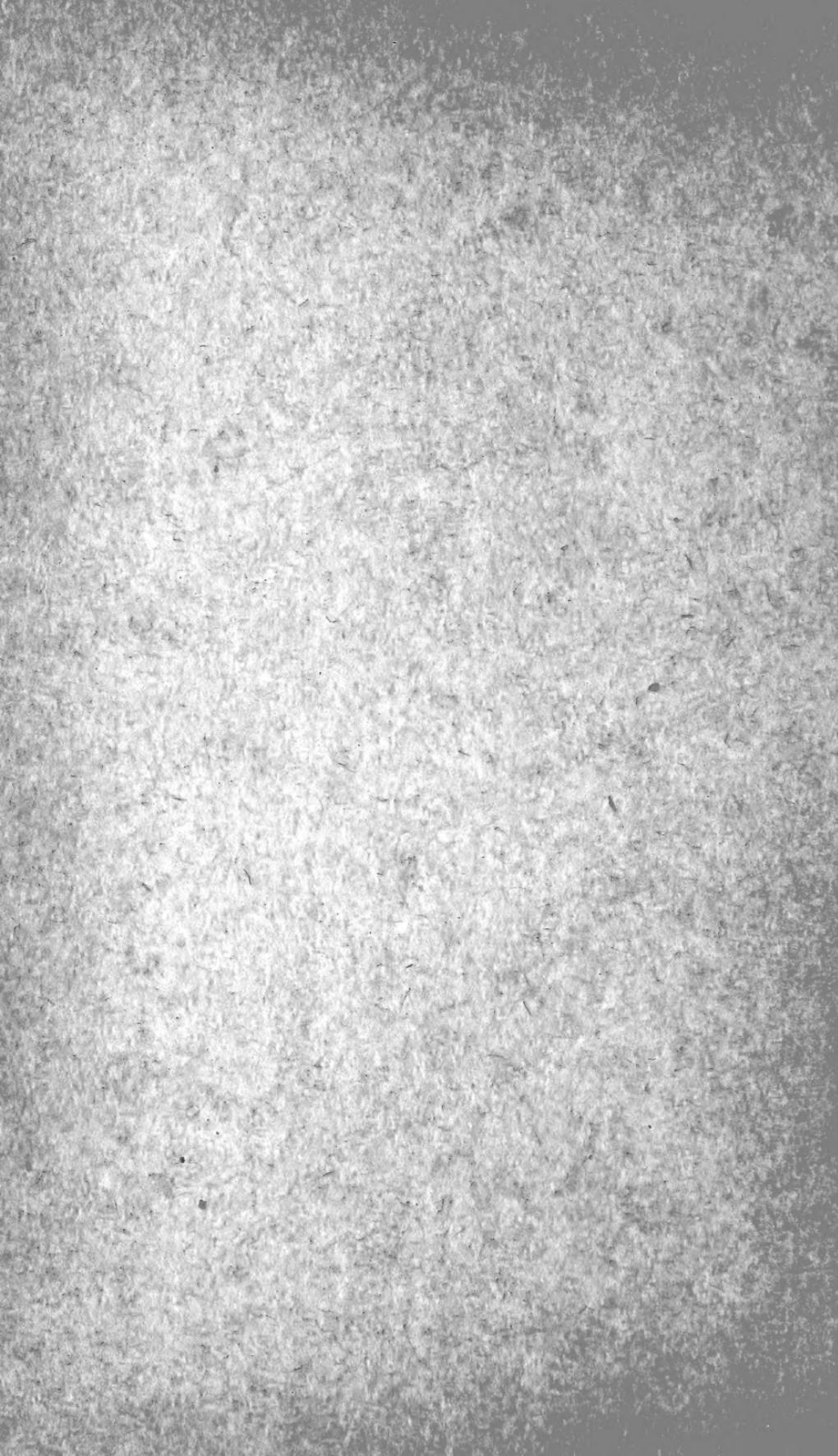
A Bibliography of Selected Literature, 1920-1950

Compiled by
Frances J. Flick
Division of Bibliography, Library



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PREFACE

This bibliography is the result of a selective examination of book and periodical literature published between 1920 and 1950, on the forests of Mexico, Central America, and South America. It is a guide to background information for anyone interested in the standing timber resource and its utilization, in these lands below our Mexican border.

The listing of references is subdivided by country. British Honduras and the Guianas are included on the basis of their place in the continental economy, even though they are not Latin-American in a political sense. Due to the large number of entries collected under the General heading, and for Argentina, Brazil, and Mexico, these four divisions again are subdivided, segregating references on vegetation and timber description from forest policy and forest industry material.

A short list of periodicals publishing Latin-American forestry information follows the main body of the bibliography. This, in turn, is followed by the index, a subject guide to general and geographic sections. A user of this index will not find the terms Forests and Forestry used, because it is assumed that these terms overlay almost every item in the index. He will find, however, such headings as Resources, Policies, Forest Types, Maps, botanical names of timber trees, and common names of forest products. Within this last category, the bibliographic scope includes the major products: timber, lumber, plywood, crossties, pulpwood, fuelwood, naval stores, tannin sources, chicle, and balata. Omitted are commodities like Hevea rubber, cinchona, and palm products, each of which occupies a major domain for separate bibliographic exploration. Likewise omitted, or included only incidentally, are references on taxonomic botany, wood technology, forest legislation, commodity production statistics, and trade statistics.

Most of the references are in English, Spanish, or Portuguese, with a sprinkling of German, French, Dutch, and other languages. Standards of usage and accenting may vary within our entries, just as they do in the countries where the written literature originates. S. J. Record and R. W. Hess' *Timbers of the New World* (1943) served as a standard of botanical nomenclature for the particular trees and timbers covered by this bibliography.

Over 4,000 references were examined in the course of compilation, most of which are housed in the U. S. Department of Agriculture Library. Call numbers following citations refer to this collection. In those cases where another library's collection was used, a designation like Libr. Cong. or Pan Amer. Union Libr. follows the citation. The symbol FS stands for U. S. Forest Service files.

The U. S. Forest Service Division of Forest Economics, Foreign Forestry Section, headed by A. C. Cline, has been an active collaborator in this bibliography. Particular thanks are due Karl R. Mayer of that office, who bore the major burden of revision.

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CONTENTS

	Page
PREFACE.....	iii
SOURCES CONSULTED	iv
GENERAL.....	1
Forest Description: Trees, Timber, Utilization of Species.....	11
ARGENTINA.....	21
Forest Description: Trees, Timber, Utilization of Species.....	30
BOLIVIA.....	42
BRAZIL.....	44
Forest Description: Trees, Timber, Utilization of Species.....	56
CENTRAL AMERICA.....	71
British Honduras.....	72
Costa Rica.....	76
Guatemala.....	78
Honduras.....	80
Nicaragua.....	81
Panama.....	83
El Salvador.....	84
CHILE.....	85
COLOMBIA.....	92
ECUADOR.....	99
THE GUIANAS.....	104
British Guiana.....	104
French Guiana	108
Surinam (Dutch Guiana).....	111
MEXICO.....	113
Forest Description: Trees, Timber, Utilization of Species.....	129
PARAGUAY.....	138
PERU.....	140
URUGUAY.....	144
VENEZUELA.....	147
PERIODICALS.....	154
INDEX.....	155

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GENERAL

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Economic geography arranged by regions and countries. Land-use and natural vegetation maps are provided.

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Conference held in Teresopolis, Brazil. Ch. 1, Utilization of forest resources. Ch. 2, Protection and development of forest resources. Appendices include memoranda and resolutions.

Portuguese ed., Relatorio. 88 p. 99.9 L34R

A chart facing p. 6 estimates the resource by country, and by broadleaf, coniferous, and mixed forest.

69. THE LATIN-American Conference on Forestry and Forest Products. Unasylva 2:94-137. May/June 1948. 99.8 Un1

Conference attempted to lay foundations for a common Latin-American forest policy. This report summarizes activities and resolutions, and gives some of the working papers. A table, p. 111, gives estimates of the forest resource for each country. Main divisions of the text are: Forest resources; Exploitation of forest resources; Production and marketing of new wood species; Integration of forest industries; Organization of forest services; Training of personnel; The forest inventory; Forest legislation.

70. LATIN-American forestry. Unasylva 2:9-18. Jan./Feb. 1948. 99.8 Un1

Written by two FAO officers. Includes status of resource knowledge, public and private policies, and activities.

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Account of the second meeting, in Lima, Nov.14,1949. The first meeting was reported in *Brasil Madeireiro 5(55):19-35. 1949. Contains resource statistics.

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78. MELL, C. D. Historical aspects of the tropical American forests. Hardwood Rec. 61(12):26,28,48. Oct.10,1926. 99.81 H225

Includes opinions on causes of the present devastated and denuded areas.

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80. METHODS of handling American lumber imports in South America. U. S. Dept. Com. Trade Inform. B. 107,35 p. June 11,1923. 99.76 Un33M

Marketing and trade information given by country and by marketing centers within Argentina, Uruguay, Paraguay, Brazil, British Guiana, Venezuela, Colombia, Chile, Peru, Bolivia, and Ecuador.

81. MEYER, H. A. "Conuqueros"— forest destroyers of the Andes. Amer. Forests 51:178-179,200. Apr.1945. 99.8 F762

Emphasizes the place of patch farming systems in the devastation of Latin America's forests, using Venezuelan conditions as an illustration.

82. NATIONAL situations. Unasylva 2:33-43. Jan./Feb.1948. 99.8 Un1

Brief surveys of forest types, resources when known, industry and policy, problems and activities, by countries for Latin America. These condensations were prepared as background to the Teresopolis conference.

*Not examined.

83. ORGANIZATION FOR EUROPEAN ECONOMIC COOPERATION. Possibilities of increasing the use of tropical timber. Paris, 1950? 95 p. Maps. 99.76 Or33

Includes trade possibilities of colonial timbers from British and French Guiana, British Honduras, and Surinam. Contents: 1, Timber sources; 2, Export and consumption possibilities; 3, Exploitation; 4, Conditioning; 5, Marketing; 6, Propaganda; 7, Freight rates, new methods of transport; 8, Export and import duties; 9, Relations with the dollar area; 10, Effects of devaluation and liberalisation of trade; 11, International tropical timber technical associations; 12, Comparison between tropical timber and European and American timber; 13, Technical assistance; 14, Summary. Annex A, Provisional indicative list of tropical species classified by categories. Annex B, Export and import duties on tropical timbers in certain countries.

84. ORTEGA, M. El comercio americano de maderas. Montevideo, Conf. Amer. de Asoc. de Com. y Prod., 1941. 29 p. Map. Pan Amer. Union Libr.

Contents: American forest resources; forested areas; a commercial summary, timbers and forest products; some problems: forest reserves, crisis in pine, crisis in quebracho; conclusion.

85. PAN AMERICAN cooperation in forestry conservation. Pan Amer. Union B. 59:161-162. Feb. 1925. 150.9 M76

86. PAN AMERICAN UNION. DIV. OF AGRICULTURAL COOPERATION. Flora and national parks [of Latin American republics]. Documentary material on nature protection and wild life preservation in Latin America 2, 2 pts. 1940. 150.91 D65

Information on parks and forest reservations, legislation, utilization, and forest tree species. Pt. 1 includes Argentina, Colombia, Ecuador, Guatemala, Mexico, and Panama; pt. 2, Brazil, El Salvador, Nicaragua.

87. DIE PAPIERINDUSTRIE in Südamerika. Wochbl. f. Papierfabrik. 62:730-732. July 25, 1931. 302.8 W81

88. PARKER, L. H. Importancia de los bosques sudamericanos en la producción mundial de maderas. Montes 29:423-428. Ref. Sept./Oct. 1949. 99.8 M763

Briefly notes the resource, when known, the chief commercial species, and their utilization in Brazil, Uruguay, Chile, and Argentina, with some mention of other South American forests.

89. PETERSON, L. E. Forest products from Latin America. J. Forestry 45:423-427. June 1947. 99.8 F768

Deterrents to economic exploitation. Comment, stressing land utilization problems, by W. Vogt, 45:686-687. Sept. 1947.

90. PLATT, R. R., and others. The European possessions in the Caribbean area; a compilation of facts concerning their population, physical geography, resources, industries, trade, government, and strategic importance. New York, Amer. Geog. Soc., 1941. 112 p. Ref. (American Geographical Society, Map of Hispanic America Publication 4) 280 P692

J. K. Wright, J. C. Weaver, and J. E. Fairchild, joint authors.

91.*PLATT, R. S. Latin America. New York, Whittlesey, 1942. 564 p. Illus. 278.16 P69

92. QUEVEDO, M. A. DE La convención de una acción conjunta panamericana para la conservación de los recursos forestales del continente. Mex. Forest. 3:61-64. May 1925. 99.8 M57

93. RANGHEL GALINDO, A. Cultivos e industrias forestales y su adaptación en la post-guerra. Agr. Trop. 1(9):39-44. Oct. 1945.

26 Ag8

Includes tanning material and wood.

94. RECOMMENDATIONS of the Soil, Water and Forest Conservation Committee of the fourth meeting of the Anglo-American Caribbean Commission. *Carib. Forester* 5:78-83. Jan.1944. 1.9622 T2C23
95. RECORD, S. J. Factors in the utilization of Latin American timbers. *J. Forestry* 40:165-168. Feb.1942. 99.8 F768
96. RECORD, S. J. *El futuro de los bosques de América tropical Hacienda* [Buffalo, N. Y.] 16(13):405-409. Illus. Oct.1921. 6 H11
97. RECORD, S. J. Some phases of the tropical timber business. *N. Y. Lumber Trade J.* 81(962):50,82,84. July 1926. 99.81 N48
98. RECORD, S. J., and MELL, C. D. *Timbers of tropical America*. New Haven, Yale U. Press,1924. 610 p. Illus. 99.79 R24T
In 2 parts: The countries and their forests; The trees and their woods. The latter portion is superseded in part by Timbers of the New World, item 216 in this bibliography.
99. RECORD, S. J. The tropical timber business. *Hardwood Rec.* 51(1):22-28. Apr.25,1921. 99.81 H225
100. RECORD, S. J. Utilization of Latin American forests. *Trop. Woods* 70:15-19. June 1942. 99.08 Y1Tr
With title, *The woods of Latin America*, In *Amer. Forests* 48:416-417. Sept.1942. 99.8 F762
An abridgement of his Factors in the utilization of Latin American timbers, item 95.
101. SCHMITT, J. J. Outlook for Latin-American forest resources. *N. Y. State Col. Forestry, State Ranger Sch. Alumni News* 1940:7-19. Illus. 99.9 N487
Chiefly trade and commerce information. Lists factors that have contributed to excessive costs of logging and marketing Latin American forest products.
102. SCHURZ, W. L. Latin America, a descriptive survey. Rev. ed. New York, Dutton,1949. 386 p. 280.16 Sch8
Forest industries, p.193-205.
103. SCHURZ, W. L., and others. Rubber production in the Amazon valley. *U. S. Bur. Foreign & Dom. Com. Trade Prom. Ser.*23,369 p. Ref. Illus. Maps. 1925. 157.54 T67
O. D. Hargis, C. F. Marbur, and C. B. Manifold, joint authors.
In addition to information of interest to the rubber industry, contains discussions of transportation, climate, and general forest conditions. The second section of the report deals with nine regions, including maps of river systems and towns. Notes on tree species give vernacular and scientific names, and discuss wood utilization. Covers Peruvian, Bolivian, Ecuadorian, and Colombian Amazonia as well as Brazilian areas.
104. SEDLAK, J. C. La riqueza forestal de América del Sud. *Maderoil* 13(155):11. May 1941. 99.82 M26
Includes a tabular estimate of forest areas within South American countries.
105. SHIRLEY, H. L. Obstacles to sustained-yield forestry. *Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc.*1948: 564-571. Ref. 150 In82 No.4
Obstacles to sustained-yield forestry in the Americas, p.566.
106. THE SOUTH American handbook, 1950. Ed.27. London, Trade & Travel,1950. 766 p. 255 So82
107. SPARHAWK, W. N. Why the United States is interested in Latin American forest development. *Pan Amer. Union B.* 59:552-558. Illus. June 1925. 150.9 M76
Stresses the need for knowledge of Latin America's forest resource.
108. TIMBER and timber products, including paper making materials. London, Benn,1924. 228 p. (Federation of British Industries, Resources of the Empire Series v.2.) 256 F31 v.2

S. J. Duly, ed. British Honduras, p.142-146; British Guiana, p.152-156.

Other volumes in the series contain information about balata in British Guiana and chicle in British Honduras.

109. TIMBER of Latin America; prospects for development. Timberman 45(2):12-13,50,52. Dec.1943. 99.81 T484

110. TOMEO, M. Las resinas. Buenos Aires, Salvat Ed.,1939. 527 p. Illus. Maps. 309 T59

Includes gums and resins of Latin America; plants producing the resins, geographic aspects of production, and technology. Classified tables by producing countries, by product, and by botanical families, p.65-67.

111. TORTORELLI, L. A. Resoluciones forestales de la III^a Conferencia Interamericana de Agricultura reunida en Caracas. Argentina. Dir. Forest. P. Tec. 6,12 p. 1946. 99.9 Ar3

Resolutions relating to forestry, passed at the Third Inter-American Agriculture Conference.

112. U. S. BUR. OF FOREIGN AND DOMESTIC COMMERCE.

Methods of handling American lumber in Mexico, Central America and the West Indies. Washington,1931. 40 p. 157.55 M56M

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113. U. S. OFF. OF THE COORDINATOR OF INTER-AMERICAN AFFAIRS. Future forest vistas in American republics. Foreign Com. Wk. 13(12):11,29-31. Dec.18,1943. 157.54 F763

114. U. S. TARIFF COMMISSION. The foreign trade of Latin America. Washington,1940. 3 v. & sup. 173 T17Fo

Pt.2 consists of 20 separate publications on Latin American countries, each with a brief section on natural resources and industries. Pt. 3, Selected Latin American export commodities, includes resource and exploitation aspects of (Sec.1) chicle, p.67-78; (Sec.2) woods, p.493-508.

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115. UPSON, A., and WADSWORTH, F. H. The development of forest land management in tropical America. Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948:582-588.

150 In82 No.4

Applies discussion to tropical America in general, chiefly from experience in Puerto Rico.

116. VANDER LAAN, J. W. Production of gutta-percha, balata, chicle and allied gums. U. S. Bur. Foreign & Dom. Com. Trade Prom. Ser. 41,72 p. Ref. 1927. 157.54 T67

117. VERDOORN, F., ed. Plants and plant science in Latin America. Waltham, Mass., Chron. Bot.,1945. 383 p. Ref. Illus. Maps. 453 V58

Consists of a collection of articles by specialists on vegetation and plant science. General survey of forests and wooded regions, p.14-15. Trees as economic plants, p.32. Includes also climate, soils, and geology.

118. VOGT, W. El hombre y la tierra. Caracas, Venezuela, Ministerio de Agricultura y Cría, Dirección Forestal,1948. 142 p. 279.169 V86

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119. VOGT, W. Latin-American timber, Ltd. Unasylva 2:19-26. Jan./Feb.1948. 99.8 Un1

Reviews forest conditions (chiefly in northern South America and Central America) from the viewpoint of faulty land policies.

120. VOGT, W. Los recursos forestales de la América latina. Maderil 21(10):23-25; (11):23-26; (12):21-24. Apr.-June 1949. 99.82 M26

The forest resource and land conditions in Latin America.

121. WHITFORD, H. N. The conservative utilization of tropical forests. Pan Amer. Union B. 59:906-913. Sept. 1925. 150.9 M76

Discusses developments needed before Latin American hardwoods can take their place in world markets.

122. WHITFORD, H. N. Tropical American woods for markets of the United States. Pan Amer. Union B. 52:567-587. Illus. June 1921. 150.9 M76

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123. WYTHE, G. Industry in Latin America. Ed.2. New York, Columbia U. Press, 1949. 387 p. Libr. Cong.

Reviews developments in industries dependent upon the forest resource: lumber, pulp and paper, furniture, and other wood-using industries.

124. WYTHE, G. An outline of Latin American economic development. New York, Barnes & Noble, 1946. 266 p. Refs. Maps. (College Outline Series) 280.16 W990

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125. ZON, R., and SPARHAWK, W. N. Forest resources of the world. New York, McGraw-Hill, 1923. 2 v. Ref. Maps. 99.1 Z7

V.2, Ch.5, Forest situation in Central America, Mexico and the West Indies; Ch.6, Forest situation in South America.

Forest Description: Trees, Timber, Utilization of Species

126. ACOSTA SOLIS, M. El quishuar ... Buddleia incana H.B.K. ... Flora [Quito] 3:119-125. Dec. 1943. 450 F662

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127. BALSA (Ochroma spp.). Forestry Abs. 3:273-277. Ref. 1942. 241.01 Im7

Condensed information on identity and range, utilization, silviculture, growth, and yield.

128. BARBOUR, W. R. Forest types of tropical America. Carib. Forester 3:137-150. July 1942. 1.9622 T2C23

129. BÄRNER, J. Die nutzholzer der welt. Neudamm, Neumann, 1942-43. 4 v. 452.8 B26

Economic woods of the world, arranged by botanical family. For each wood gives brief information about nomenclature, description, location and distribution, commercial and vernacular names, properties, and utilization.

130. BEARD, J. S. Climax vegetation in tropical America. Ecology 25:127-158. Ref. Illus. Apr. 1944. 410 Ec7

Evolves a classification of vegetation formations, in English, Spanish, and Portuguese. The key study on which this classification is based was conducted on Trinidad and Tobago, but the author also has correlated information from Central and South America.

131. BELCHER, R. S., and others. Cross-ties of foreign woods. Amer. Ry. Engin. Assoc. Proc. 26:1033-1078. Illus. 1925.

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S. B. Fisher, J. Foley, H. C. Hayes, and A. F. Maischaider, joint authors.

Information about native woods used as ties in Latin American countries, and test results of such woods used on American railway roadbeds.

132. BERGSTROM, G. Woods from the American tropics. Furniture Mfr. 40(5):45-47,84. Nov. 1930. Libr. Cong.

Brief history of the commerce of various *Dalbergia* species, and their utilization for furniture and other forest products.

133. BLAKE, S. F., and ATWOOD, A. C. Geographical guide to the floras of the world. Pt.1. USDA Misc. P. 401,336 p. June 1942.

1 Ag84M

An annotated bibliography including works on useful plants from Central and South America, through 1939. Due consideration is given to timber trees.

134. BRITISH STANDARDS INSTITUTION. Nomenclature of commercial timbers including botanical names and sources of supply. British Standards 881 & 589, 101 p. 1946. 290.9 B77

B. S. 881, Hardwoods; B. S. 589, Softwoods. Sup., 20 p., 1948.

135. BROWN, N. C. The feasibility of introducing tropical ties in the United States. Amer. Wood-Preservers' Assoc. Proc. 18:182-189. 1922. 300.9 Am3

Includes discussion of native timber species utilized in British Guiana, Brazil, and other countries.

136. BRUSH, W. D. Balsa (*Ochroma lagopus* Sw.). Washington, U. S. Forest Serv., 1945. 14 p. Ref. Map. (Foreign Woods.)

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137. BUELL, A. W. Timbers of tropical America and railway tie supply. Engin. News-Rec. 85:1139-1141. Dec. 9, 1920. 290.8 En34

138. BURKLAND, E. R. Divi-divi offers tannin. Agr. Amer. 3: 154-156. Illus. Aug. 1943. 1 F752A

Tropical America as a source of *Caesalpinia* [*Libidibia*] *coriaria*.

139. BURTT DAVY, J. The classification of tropical woody vegetation-types. Oxford U. Imper. Forestry Inst., Inst. Paper 13,86 p. Ref. 1938. 99.9 Ox23

Chiefly derived from British Colonial experience in the African and Oriental tropics, but with some application to the American tropics. Further elaboration in Paper 19, 19 p., by P. W. Richards, A. G. Tansley, and A. S. Watt. The recording of structure, life-form and flora of tropical forest communities as a basis for their classification. 1939.

140. CHANCEREL, L. Flore forestière du globe; principaux arbres forestiers, leur caractères, leurs stations, leurs sols, leurs races, les qualités de leur bois, leurs produits, leur emploi cultural, leur ennemis. Paris, Gauthier-Villars, 1920. 738 p. 99.3 C36

141. COOPER, G. P. Espavé (*Anacardium rhinocarpus* DC.). Trop. Woods 22:4-9. June 1930. 99.08 Y1Tr

Occurrence of the tree [*A. excelsum*] from Costa Rica to Colombia and Venezuela; its utilization and wood technology.

142. COUDREAU, J. Traverses de chemins de fer en bois tropicaux. Bois et Forêts des Trop. 16:369-388. 4th Q., 1950. 99.8 B632

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143. COX, W. T. Some facts about balsa. J. Forestry 42:714-715. Oct. 1944. 99.8 F768

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144. COX, W. T. World's greatest hardwood forest. Amer. Forests. 50:584-587,622. Dec. 1944. 99.8 F762

Describes the forest on the east slopes of the Andes.

145. CUMULATIVE index to Tropical Woods, numbers 1 to 94 inclusive: general index; index to scientific names. New Haven, Yale U. Sch. of Forestry, 1949. 125 p. 99.08 Y1Tr
Unnumbered issue of Trop. Woods, Dec. 1949.
146. DANIELS, A. S., and STRADER, O. R. Study of Central American woods' suitability for cross ties. Cross Tie B. 30(7):9-11. July 1949. 99.82 C87
147. DETWILER, S. B. Some basic information regarding tannins and tannin-yielding crops, prepared for use by tannin-research workers. Washington, U. S. Off. Foreign Agr. Relat., 1948. 112 p. Ref. 1.943 So52
Includes information on Latin American tannin sources: mangrove, quebracho, divi-divi, and others less known.
148. DICKINSON, F. E., HESS, R. W., and WANGAARD, F. F. Properties and uses of tropical woods, I. Trop. Woods 95,145 p. Ref. June 1949. 99.08 Y1Tr
U. S. Off. of Naval Research and U. S. Bur. of Ships cooperating.
In addition to properties and seasoning information, classifies the various woods tested according to product usefulness. Discussions of separate species include tree description and general comments on distribution.
For pt.2, see item 166.
149. DUCKE, A. Notes on the wallaba trees (*Eperua Aubl.*) Trop. Woods 62:21-28. June 1, 1940. 99.08 Y1Tr
150. ECOLOGICAL SOCIETY OF AMERICA. COMMITTEE ON THE PRESERVATION OF NATURAL CONDITIONS. Naturalist's guide to the Americas. Baltimore, Williams & Wilkins, 1926. 761 p. Ref. Illus. 409 Ec7
Sections on geography, flora, and fauna of Mexico, Central American countries, and northern South American countries, p.574-681.
151. FIEBRIG-GERTZ, C. Tropischer waldbau. Neues Handb. der Trop. Agr. 4(42),88 p. 1930? 38 N39
Tropical silviculture. Includes conifers, eucalyptus, leguminous species, other valuable hardwoods including mahogany, light-weight woods, latex-yielding trees, palms, and bamboos.
152. FOREIGN timbers, 1-4. Gt. Brit. Dept. of Sci. & Indus. Res., Forest Prod. Res. Lab. L. 27,29,31,32. 4 v. May-Sept. 1943.
99.9 G796L
Notes on trees, nomenclature, distribution, uses, and supply when known. 1,Calophyllum and Cedrela. 2,Cordia and Vochysia. 3,Araucaria and Ocotea. 4,Aspidosperma and Qualea.
153. FRYCKBERG, M. Mangrove bark. Agr. Amer. 5:199. Oct. 1945. 1 F752A
154. GARRATT, G. A. The wood of *Sympmania globulifera*. Trop. Woods 45:1-15. Ref. Mar.1936. 99.08 Y1Tr
155. GERRY, E. Angélique or basra locus, *Dicorynia paraensis* Bth. U. S. Forest Serv., Forest Prod. Lab. R.1787,7 p. Ref. 1950. (Information Leaflet, Foreign Woods.) 1.9 R761R
156. GERRY, E. Gifts of the Americas: primavera. Agr. Amer. 6:191. Nov.1946. 1 F762A
The tree and the wood of *Cybistax donnell-smithii*.
157. GT. BRIT. IMPERIAL INSTITUTE. Tanning materials of the British Empire. London,1929. 100 p. Ref. 303 G972
Compilation and revision of scattered articles appearing in the Bulletin of the Imperial Institute. Mangroves,p.24-27; divi-divi and algarobilla [*Caesalpinia brevifolia*],p.73-76. Chiefly technological and commercial information.

158. GREENE, E. C. Santa María; a neotropical timber of the genus *Calophyllum*. *Trop. Woods* 30:9-16. June 1932. 99.08 Y1Tr

159. GREENHOUSE, S. Balsa wood—its growth and manufacture. *Wood Prod.* 46(9):16-18,41-42. Illus. Sept.1941. 99.82 W856

160. GUENTHER, K. Die eigenart des tropenwaldes. *Allg. Forst u. Jagd Ztg.* 102:121-133. Illus. Apr.1926. 99.8 AL3

Characteristic features of tropical forests, based on studies in Brazil and the East Indies.

161. GUINIER, M. À propos des branches d'*Araucaria brasiliiana* et des noeuds: leur utilisation. *Rev. Bot. Appl. & d'Agr. Trop.* 20: 343-345. May/July 1940. 26 R323

Utilization of branch and whorl wood of *Araucaria angustifolia*.

162. HAMILTON, J. V. Waste of Mahogany and a plea for its stump. *N. Y. Lumber J.* 70(837):38-40. May 1,1921. 99.81 N48

Describes typical felling practice and discusses utilization of material in the stump.

163. A HANDBOOK of Empire timbers. Rev. ed. London, Gt. Brit. Dept. of Sci. & Indus. Res., Forest Prod. Res.,1945. 142 p. 99.79 C83A

Summarized information for over 100 timbers, of which about 15 are from Latin America. Each timber presented as follows: Nomenclature; the tree; the timber; seasoning properties; wood bending properties; mechanical properties; natural durability; insect and marine borer attack; preservative treatment; working qualities; uses; supplies.

164. THE HARDWOODS of the Caribbean Sea; Republic of Venezuela and Dutch, British and French Guiana covered with dense forests, including many varieties of hardwood; greenheart [*Ocotea rodiaeii*] is a hardwood of great resistance and freedom from decay. *Hardwood Rec.* 55(11):35. Sept.25,1923. 99.81 H225

165. HERMANN, F. J. Leguminous shrubs and trees used as shade and cover crops in tropical and subtropical countries. Washington, U. S. Off. of Foreign Agr. Relat.,1943. 17 p. (Economic Plants of Interest to the Americas.) 1.943 Ec72

Includes indigenous tree species so utilized in Central and Northern South America.

166. HESS, R. W., WANGAARD, F. F., and DICKINSON, F. E. Properties and uses of tropical woods, II. *Trop. Woods* 97,132 p. Ref. Illus. Nov.1,1950. 99.08 Y1Tr

U. S. Off. of Naval Research and U. S. Bur. of Ships cooperating.

Includes information on tree species, their occurrence and utilization. For pt.1, see item 148.

167. HOWARD, H. L. A manual of the timbers of the world; their characteristics and uses. Ed.3. London,Macmillan,1948. 751 p. Illus. 99.79 H83

A table of timbers by country of origin, p.659-674. Indexes of botanical and vernacular names follow. Common names largely are those of the British timber trade.

168. HOYER, F. Tropische papierhölzer. *Tropenplanzer* 40:503-529. Ref. Dec.1937. 26 T75

Tropical woods suitable for pulpwood. South American species, p514-519.

169. HYDE, K. C. Tropical light weight woods. *Bot. Gaz.* 79(4): 380-411. Ref. June 1925. 450 B652

Chiefly wood anatomy, but discusses geographical distribution of six light-weight Latin American species other than *Ochroma*.

170. INDEX to vernacular and trade names, Tropical Woods numbers 1 to 94. New Haven, Yale U. Sch. of Forestry,1950. 81 p. 99.08 Y1Tr

Unnumbered issue of *Trop. Woods*, May 1950.

171. JAKOB, C. La floresta andina de altura. *Rev. Geog. Amer.* 7:229-236. Apr.1939. Pan Amer. Union Libr.

172. JUMELLE, H. Le quebracho. Rev. de Bot. Appl. 4:88-98.
Feb.29,1924. 26 R323

The tree, the industry, and the product, in Argentina and Paraguay.

173. KALELA, E. K. Über die entwicklung der herrschenden bäume in den beständen verschiedener waldtypen Ostpatagoniens. Helsinki, 1941. 65 p. Ref. Illus. (Annales Academiae Scientiarum Fennicae Series A,4, Biologica 3.) 99.24 K12

Development of dominant trees in the forest types of Patagonia.

174. KALELA, E. K. Über die holzarten und die durch die klimatischen verhältnisse verursachten holzartenwechseln in den wälder Ostpatagoniens. Helsinki, 1941. 151 p. Ref. Illus. (Annales Academiae Scientiarum Fennicae, Series A,4,Biologica 2.) 99.24 K12U

Forest tree species and changes which have evolved in the forests of Patagonia.

- *Follows his Beiträge zur kenntnis der flora ost-patagoniens,1-3. Annales Series A,5. 1940-41.

175. KARLING, J. S. Collecting chicle in the American tropics. Torreya 42:38-49,69-81,105-113. Ref. Illus. Maps. Mar./Apr.-July/Aug.1942. 450 T63

Table p.74-77 gives sources, localities, vernacular names, and literature references on chicle and chicle adulterants.

176. KERR, G. A. The quebracho forests of South America. Amer. Leather Chem. Assoc. J. 16:172-202. Illus. Apr.1921. 303.9 Am32
Also separate, 99.24 K46; summary in Australian Forestry J. 5:31-32. Feb.15,1922. 99.8 Au74

Personal notes and observations, describing the forests and logging operations.

177. KOPPEL, C. VAN DE Bestaat er een houtsoort die teak kan vervanger voor scheepsdekken in de Tropen? K. Ver. Indisch Inst. Afd. Handelsmus. Ber. 219,9 p. 1947. 503 Am82B

Is there a tropical timber which can replace teak for ship-decking?
Discusses substitutes, four of which are from South America. Has English summary.

178. LAMB, G. N. Foreign woods; origin, use, properties and nomenclature. Wood Prod. 52(4):48-49. — 55(12):24. Apr.1947-Dec. 1950. 99.82 W856

A monthly series of articles, continuing beyond the terminal date of this bibliography. Includes Latin American timber species.

179. LAMB, G. N. The hunt for mahogany. Natl. Hardwood Mag. 21(11):88-89,131. Dec.1947. 99.81 N212

Brief history of mahogany exploitation in Latin America, with a discussion of supply and requirements of the American market.

180. LAMB, G. N. The mahogany book. Ed.6. Chicago,Mahogany Assoc.,1947. 71 p. Illus. Map. 99.77 L16

181. MCCARTY, G. Useful timbers of tropical America. Timberman 25(1):156-158. Nov.1923. 99.81 T484

182. MAHOGANY. U. S. Off. Dom. Com. Indus. Ref. Serv. Pt.12, Commod. Ref. Ser. 5(2),3 p. Jan.1947. 157.54 In2312

Tropical American and African mahogany as items of commerce.
A chart shows changes in mahogany use-patterns.

183. MARCO, H. F. Systematic anatomy of the woods of the Rhizophoraceae. Trop. Woods 44:1-9. Ref. Dec.1935. 99.08 Y1Tr

Abstract of thesis (Ph.D.)--Yale University School of Forestry.

Some discussion of geographical distribution and economic importance of mangroves including those genera occurring in Central and South America.

*Not examined.

184. MELL, C. D. [Commercial woods, foreign and domestic]. Veneers 20(11) - 30(1). Nov. 1926-Jan. 1936. 99.82 V55
 An irregular (usually monthly) series of articles with varying titles. Many are Latin American timbers. Other periodicals which have carried his short articles on Latin American timbers are Hardwood Record (99.81 H225) and Timberman (99.81 T484). Follows a similar series by S. J. Record.
185. MELL, C. D. The increasing importance of the jobo [Spondias mombin] tree of tropical America. Pan Amer. Union B. 51:406-409. Illus. Oct. 1920. 150.9 M76
186. MELL, C. D. Introducing new tropical hardwoods. Hardwood Rec. 48(10):29-30. Mar. 10, 1920. 99.81 H225
187. MELL, C. D. Properties and uses of determa [Ocotea rubra] wood. Veneers & Plywood 33(3):10-11. Mar. 1939. 99.82 V55
188. MELVILLE, R. A list of true and false mahoganies. Kew Roy. Bot. Gard., Misc. Inform. B.3:193-210. 1936. 451 K51B
 Brief resumé of the development of mahogany trade, and the appearance of woods other than Swietenia on the market. A list of common and scientific names of true and false species is included.
 Further comments in B. 4:274-276. 1937.
189. MENAGER, H. Voyages d'études forestieres et agricoles dans l'hémisphère sud. Argentine et Brésil, 1947; Australie et Tasmanie, 1948. Bordeaux, Delmas, 1950. 152 p. Illus. 99.24 M52
 Includes observations regarding quebracho, other tannin sources, and the work of E. Navarro de Andrade.
190. MEYER, H. Buch der holznamen; the book of wood names; les noms des bois; los nombres de las maderas. Hannover, Schaper, 1936. 564 p. 452.14 M57
 Arranged alphabetically by commercial and vernacular name, giving also the botanical name and the place of name use. Includes Latin American timbers.
191. MOULDS, F. R. Eucalypts and their use in semi-tropical plantings. Trop. Woods 91:1-16. Ref. Sept. 1947. 99.08 Y1Tr
 Reviews the status of eucalyptus plantings the world over, with some notes on yield, products, properties and silviculture. Includes information about Argentina, Brazil, Chile, Ecuador, Peru, Paraguay, and Uruguay.
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 Some revision, by the same author, in Madroño 10:129-139. Nov. 3, 1949. 450 M26
193. NERLING, O. Nutzhölzer, schnitzstoffe. Hamburgisches Inst. f. Angew. Bot. Jahresber. 55:37-54; *56:43-59. 1938-39. 451 H176
 Timbers and lumber, including brief information on nomenclature, distribution, and properties of over 100 tropical woods. One section is devoted to Brazilian and Chilean woods.
194. PIERCE, J. H. Balsa -- lightweight champion timber tree. N. Y. Bot. Gard. J. 43:268-277. Illus. Nov. 1942. 451 N48J
195. POUDEROUX, R. Le balsa. Rev. Internat. des Prod. Colon. 25:105-106. May 1950. 286.8 R326
196. RAILWAY tie woods used in foreign countries. Cross Tie B. 4(6):1-4, 6, 8, 10, 12, 14, 16, 18, 22. Aug. 1923. 99.82 C87
 Consular reports give the species utilized, occasional statistics on tie durability, and some information on the local industry. Countries covered include Costa Rica, British Honduras, Guatemala, Mexico, Nicaragua, Chile, Ecuador, Paraguay, British Guiana, Argentina and Brazil.

*Not examined.

197. RAIZADA, M. B. Balsa wood. Indian Forester 73:155-163.
Ref. Apr. 1947. 99.8 In2

Considers botanical nomenclature, distribution, general characteristics, uses, supplies, cultivation and planting in countries other than Latin American ones, and other matters.

198. RECORD, S. J., and HESS, R. W. American timbers of the family Bignoniaceae. Trop. Woods 63:9-38. Sept. 1940. 99.08 Y1Tr

In addition to botanical information, gives occurrence, utilization and properties of such commercial genera as *Cybistax* (primavera), *Tabebuia*, and *Jacaranda*.

199. RECORD, S. J., and HESS, R. W. American timbers of the family Lauraceae. Trop. Woods 69:7-33. Mar. 1942. 99.08 Y1Tr

Some outstanding commercial genera in this family are *Aniba*, *Nectandra*, *Ocotea*, and *Phoebe*. Occurrence of trees, wood properties, and utilization are discussed.

200. RECORD, S. J. American timbers of the genera *Dalbergia* and *Machaerium*. Trop. Woods 72:1-11. Dec. 1942. 99.08 Y1Tr

201. RECORD, S. J. American timbers of the mahogany family. Trop. Woods 66:7-33. June 1, 1941. 99.08 Y1Tr

Beside botanical notes and wood properties, gives occurrence and utilization of commercial "mahoganies" other than *Swietenia*, e.g. *Cedrela*, *Carapa*, *Guarea*, and others.

202. RECORD, S. J. American woods of the family Anacardiaceae. Trop. Woods 60:11-45. Dec. 1939. 99.08 Y1Tr

Notes on habit and occurrence of trees, and on their products, the latter of which cover a wide commercial range due to the presence in this family of such genera as *Anacardium* (cashew), *Astronium* (Gonçalo Alves), and *Schinopsis* (quebracho).

203. RECORD, S. J. American woods of the family Bombacaceae. Trop. Woods 59:1-20. Sept. 1939. 99.08 Y1Tr

The family includes *Ochroma*, the balsa.

204. RECORD, S. J., and HESS, R. W. American woods of the family Boraginaceae. Trop. Woods 67:19-33. Sept. 1941. 99.08 Y1Tr

This family includes the genus *Cordia*.

205. RECORD, S. J., and HESS, R. W. American woods of the family Moraceae. Trop. Woods 61:11-54. Mar. 1940. 99.08 Y1Tr

Includes information on occurrence and utilization of *Brosimum* and *Piratinera* timbers, as well as *Chlorophora* and other less-exploited genera.

206. RECORD, S. J. American woods of the family Sapotaceae. Trop. Woods 59:21-51. Sept. 1939. 99.08 Y1Tr

In addition to botanical description and wood technology, gives notes on occurrence and utilization of trees, with more complete treatment of two commercially prominent genera, *Achras* which produces chicle, and *Manilkara* which produces balata.

207. RECORD, S. J., and HESS, R. W. American woods of the family Verbenaceae. Trop. Woods 65:4-21. Mar. 1941. 99.08 Y1Tr

Commercial timbers belong to the genus *Vitex*.

208. RECORD, S. J. The American woods of the orders Celastrales, Olacales and Santalales. Trop. Woods 53:38. Mar. 1938. 99.08 Y1Tr

209. RECORD, S. J., and GARRATT, G. A. Boxwoods. Yale U. Sch. Forestry B. 14, 81 p. Illus. Aug. 1925. 99.9 Y1B

Previous brief treatment by S. J. Record only, entitled Boxwoods of commerce. Torrey Bot. Club B. 48:297-306. Nov. 1921. 451 T63B

Includes Caribbean and South American genera yielding woods known as boxwood.

210. RECORD, S. J., and GARRATT, G. A. Cocobolo. Yale U. Sch. Forestry B. 8, 42 p. Illus. Map. 1923. 99.9 Y1B

Botanical and commercial aspects of the Mexican and Central

American Dalbergias. Discussed and partly reproduced by S. Calderón, Maderas preciosas de El Salvador. Rev. de Agr. Trop. 3(2):89-94. Map. Apr./June 1925. 8 R326

211. RECORD, S. J. Distribution of the species of *Swietenia*. Trop. Woods 1:2-4. Mar. 1925. 99.08 Y1Tr

212. RECORD, S. J. Lignum-vitae [Guaiacum]; a study of the woods of the Zygophyllaceae with reference to the true lignum-vitae of commerce -- its sources, properties, uses, and substitutes. Yale U. Sch. Forestry B.6,48 p. Ref. Illus. 1921. 99.9 Y1B

213. RECORD, S. J. Mahogany in the upper Amazon. Trop. Woods 6:1-2. June 1926. 99.08 Y1Tr

214. RECORD, S. J. Random observations on tropical American timbers. Trop. Woods 77:1-10. Mar. 1944. 99.08 Y1Tr

Contents summary: Heartwood of *Taxodium mucronatum*; Termite resistant *Bucida buceras*; Panama "candle wood" or "sigua canela"; "Cashier" of Bocas del Toro, Panama; Some proposed substitutes for balsa (*Ochroma*); Timbers naturally resistant to teredo; *Vantanea barbourii* in Costa Rica; Miscellaneous determinations.

215. RECORD, S. J. *Schizolobium*; a promising source of pulpwood Trop. Woods 2:2-5. June 1925. 99.08 Y1Tr

216. RECORD, S. J., and HESS, R. W. Timbers of the New World. New Haven, Yale U. Press, 1943. 640 p. Ref. Illus. Maps. 99.79 R24Tn

Describes, and attempts an economic evaluation of over one thousand predominately Latin American timbers, arranged by botanical family. Correlates vernacular and botanical names, and classifies families with reference to special properties and uses of their bark, leaves, and timber. The ranges of certain important genera are indicated on maps.

217. RECORD, S. J. Walnut woods — true and false. Trop. Woods 18:4-29. June 1929. 99.08 Y1Tr

Includes discussion of occurrence of *Juglans* in Latin America. False walnuts in Latin American trade are *Phoebe porosa* (imbuia of Brazil), various *Cordias*, *Enterolobium* (guanacaste of Central America) and *Metopium brownei* which has a local name of Honduras walnut.

218. RECORD, S. J. We will need the tropical woods. Veneers 19 (8):22-24. Illus. Aug. 1925. 99.82 V55

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A contribution to the knowledge of the timber, coihue.

220. RENDLE, B. J. Cocobolo as a dyewood. Trop. Woods 23:6. Sept. 1930. 99.08 Y1Tr

Tested wood was *Dalbergia retusa*.

221. RENDLE, J. Commercial mahoganies and allied timbers. Gt. Brit. Dept. of Sci. & Indus. Res., Forest Prod. Res. B. 18,45 p. Ref. Map. 1938. FS

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223. ROWE, L. S., and ALBA, P. DE Convención y documentación sobre la protección de la flora, de la fauna y de las bellezas escénicas naturales de los países de América. Rev. Argentina Agron. 10:

67-76. Mar. 1943. 9 R327

A list of species needing protection gives common and scientific names of many timber trees. The list, p.73-76, is arranged by country.

224. ROWLEE, W. W. Tropical trees with light-weight wood. N. Y. Bot. Gard. J. 22:75-78. Apr. 1921. 451 N48J

Chiefly about Ochroma, Cavanillesia, and Jacaratia.

225. RUHLE, K. Die vegetations formationen Südamerikas in ihrer klimatischen bedingtheit. Pettermanns Mitt. aus Justus Perthes' Geog. Anst. 74:29-34, 95-100. Maps. 1928. 474 M69

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226. RUTTEN, F. Hout; soorten, groei, toepassing. Amsterdam, Van Kampen & Zoon, 1949? 288 p. Ref. Illus. 99.79 R93

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227. SANTOS, E. O sapotieiro [Achras zapota]. Campo 9(106):55-57; (107):13-14. Ref. Oct.-Nov. 1938. 9.2 C15

The tree's natural history as well as the economy of its products.

228. SAUVEGRAIN, S. Le balsa. Rev. du Bois 2(3):17-20. Illus. Mar. 1947. 99.82 R32

229. SCHOLTEN, J. A. Structural timber for bridge construction in Central America. Natl. Res. Council, Highway Res. Bd. Ann. Mtg. Proc. 24:202-206. 1944. 288.9 N21

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Composition of mangrove swamps with particular reference to Brazil, and with a discussion of the economic importance of mangrove

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Patagonian plant geography. Tree range forms a large portion of the author's thesis. Cites references to A. Donat on the same subject.

234. SOME new timbers and their uses. Timber Devlpmt. Assoc., Timber Inform. Ref. 34,8 p. 1948. 99.9 T48Tr

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235. SPOON, W. Toepassingen van walaba of bijlhout. K. Ver. Indisch Inst. Afd. Handelsmus. Ber. 218,11 p. 1947. 503 Am82B

Uses of wallaba [Eperua falcata]: pulpwood, fuel and charcoal, and tannin source. Has English summary.

236. STANDLEY, P. C. The American species of Engelhardtia. Trop. Woods 12:12-15. Dec. 5, 1927. 99.08 Y1Tr

Occurrence in Costa Rica and Mexico.

237. STANDLEY, P. C. An enumeration of the Sapotaceae of Central America. Trop. Woods 4:1-11. Dec. 1925. 99.08 Y1Tr

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240. STEARNS, J. L. Tropical veneer woods. Wood [Chicago] 2(4): 23, 43, 47. Apr. 1947. 99.82 W859

Notes on occurrence, properties and utilization of eleven cabinet woods from Latin America.

241. TEIXEIRA DA FONSECA, E. Umbaúba. Rev. da Flora Med. 1:289-296. Mar. 1935. 71.8 R32

The tree and wood of Cecropia; chiefly medicinal properties, but some mention of its value for pulpwood.

242. THARANDT. REICHSGESELLSCHAFT FÜR AUSLÄNDISCHE UND KOLONIALE FORSTWIRTSCHAFT. Merkblätter über koloniale nutz-hölzer 11-15, 5 v. Ref. Illus. Maps. 1940? 99.9 T323M

Gives information on distribution and utilization of species, in addition to botanical notes, wood properties, and chemical analyses which include fiber counts. No. 11, Brasilkiefer, Araucaria angustifolia; 12, Balsa, Ochroma sp.; 13, Raulí, Nothofagus procera; 14, Laurel, Laurelia aromatica; 15, Mañí, Podocarpus.

243. TIMBER DEVELOPMENT ASSOCIATION, LTD. Timber leaflets [series]. London, 1942-43. 99.9 T48

Includes Latin American timbers which enter United Kingdom markets. For each timber gives nomenclature, distribution, notes on the tree and the wood, wood utilization, and supply when known.

Similar series issued later as World timbers: timber leaflets. London, 1946. 2 v. 99.79 T48

244. TIMBER DEVELOPMENT ASSOCIATION. Commercial timbers of the world. Map. Wood [London] 12:52A. Feb. 1947.

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A map of the world's forest regions, with lists of commercial timber species for various countries, including those of Latin America.

245. UPHOF, J. C. T. De geographische verspreiding van *Salix humboldtiana* Willd. in vergelijking met die van andere *Salix*-soorten. Nederland. Dendrol. Ver. Jaarb. 16:76-82. Ref. Illus. 1947.

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History of balata, and the trees as they occur in Brazil, the Guianas and the Antilles. Descriptions of them from a study of literature and herbarium material in Paris.

247. WANGAARD, F. F. Tropical wood research for the furniture industry. Forest Prod. Res. Soc. Proc. 3:72-84. 1949. 99.9 F7662P

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248. WELLS, S. D., and RUE, J. D. The suitability of American woods for paper pulp. USDA B.1485, 102 p. May 1927. 1 Ag84B

Includes species from Argentina, Chile, and the Canal Zone, giving brief descriptions of trees and some information on range of occurrence.

249. WHAT is roble? Wood [London] 12(3):75-76. Mar. 1947.

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the name of roble, and gives common names by country.

250. WHITE, O. E. The Amazon Valley. In Naturalist's guide to the Americas, p.674-681. Ref. Baltimore, Williams & Wilkins, 1926. 409 Ec7

251. WIEHE. Südamerikanische hölzer. Kolonforstl. Mitt. 2:410-418. Illus. Mar.1940. 99.9 K83

Commercial timbers of South America.

252. WILLIAMS, L. A study of the Caryocaraceae. Trop. Woods 42:1-18. Ref. June 1935. 99.08 Y1Tr

253. WILSON, O. Latin America as a source of tanning materials. Chem. & Metall. Engin. 30:303-305,344-346,398-399. Illus. Feb.25-Mar.10,1924. 381 EL2

Also in Pan Amer. Union B. 58:568-576,982-993. Illus. June,Oct. 1924. 150.9 M76

Includes mangrove, quebracho, divi-divi, and other sources.

254. WOODS, R. P. South American timbers. T. D. A. Q. Rev. 2 (1):8-9. Oct.1947. 99.9 T48T

A list of common names of timbers, with some descriptive information. Differs from the Timber Development Association's later compilation, item 256 in this bibliography, in giving the several botanical names of species known by the same trade name.

255. WOODS, R. P. South American timbers. Wood [London] 13: 221-222. Aug.1948. 99.82 W855

Discusses nomenclature confusion in commercial timbers, especially those arriving in British markets. Also information on wood characteristics and utilization.

256. WOODS, R. P. Timbers of South America. London, Timber Devlpmt. Assoc.,1949. 74 p. Ref. 99.79 T48Ts

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257. ADAMO, O. A. D'. La Dirección Forestal Argentina y la pro-
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Argentina's Forestry Department and industrial forest policy.

258. ADAMO, O. A. D'. El sistema de valuación de bosques en la
Argentina. Argentina Dir. Inform. P. Misc.320,18 p. 1949. 9 P943

The system of forest valuation in Argentina. Describes differing economic situations in various regions, with regard to the system.

259. ALBERTONI, J. L. Consideraciones sobre la industrialización de la madera en nuestro país [Argentina]. Chacra 14(158):16-19,
28. Dec.1943. 9 C34

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260. ALCOBA MARTÍNEZ, A. Cuestiones previas que plantea la exportación racional de los combustibles sólidos vegetales. Argentina. Sec. de Indus. y Com. B. 1(7/8):435-438. Apr./May 1945.

280.9 Ar3

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261. *ALCOBA MARTÍNEZ, A. Tres conferencias sobre régimen forestal argentino. La Plata, Di Jorgi & Casado,1940. 30 p.
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262. ALFONSO, J. L. Algunas consideraciones sobre los bosques de Tierra del Fuego. Ingen. Agron. 1(6):10-14,16-23. Map. Jan./Feh 1940. 9 In4

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263. ALFONSO, J. L. Los bosques de Tierra del Fuego. Suelo Argentino 1:115-119. Illus. Map. Feb. 1942. 9 Su2

The forests of Tierra del Fuego.

264. ALMONACID, P. N., and CARILLO, R. Desarrollo de las industrias agropecuaria y forestal de Santiago del Estero. Rev. de Econ. Argentina 40:147-151. May 1941. 280.8 R325

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265. *ALMUNI, C. A. La cuestión forestal argentina. Córdoba, Córdoba U., 1946. 168 p. Libr. Cong.

266. ALORI SALAS, C. Nuestros bosques necesitan mejorar sus sistemas de explotación. Rosario, Bolsa de Com., Rev. 38(918):3-5. Apr. 15, 1950. 287 R71

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267. AMADEO y VIDEALA, D. Discurso pronunciado por el Señor Ministro de Agricultura ... en la inauguración de la Primera Exposición Forestal Argentina que se realizó en la capital federal el 24 de Diciembre de 1942. Argentina, Dir. de Tierras, B. de Tierras y Colon. 18(300):3-7. Jan. 1943. 9 T44

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268. ARGENTINA. COMISION DE LA INDUSTRIA DEL QUEBRA-CHO. La industria del extracto de quebracho. Argentina. Sec. de Indus. y Com. B. 1(6):190-195. Mar. 1945. 280.9 Ar3

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270. ARMOUR RESEARCH FOUNDATION. Technological and economic survey of Argentine industries, with industrial research recommendations. Report to the Corporación para la Promoción del Intercambio, S. A. Chicago, 1943. 381 p. 280.161 Ar5

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272. BACIGALUPO, J. A. Combustibles sólidos en el país. Indus. y Quim. 7:423-426. Dec. 1945. 385 In28

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273. BASES racionales para la explotación de los bosques fiscales de pino en Misiones. Maderil 17(194):3-5. Aug. 1944. 99.82 M26

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277. CAFFERATA, R. E. Conservación de los bosques. Buenos Aires,1947. 14 p. 99.5 C12
Forest conservation in Argentina's national parks.
278. CARLINI, V. Corsa attraverso l'Argentina, fra foreste, vivai e piantagioni, visite a segherie falegnamerie, fabbriche di compensato, cartiere. Indus. del Legno [Milan] 2(11):33-36; (12):19-22. Illus. Nov.-Dec.1950. 99.82 In2
A journey across the Argentine, through forests, nurseries and plantations, sawmill, plywood factory, and the pulpwood plantations in the Parana Delta.
279. CARMELICH, J. N. F. Fabricación de carbón de leña de quebracho blanco en Santiago del Estero [Argentina]. Ingen. Agron. 1(3): 5-12. Illus. Oct.1939. 9 In4
Includes tree species utilized in charcoal production; methods of operation; charcoal production statistics.
280. CARMELICH, J. N. F. Reforestación. Hereford 11:430-431. Sept./Oct.1945. 43.8 H42
The need for reforestation in Argentina, to compensate for forest devastation.
281. CARMELICH, J. N. F. El territorio de Misiones está cubierto por bosques en un 95% de su extensión. En los 2,800,000 hectáreas que ellos cubren se encuentran maderas de alto valor industrial. Argentina. Min. de Agr. Almanaque (1945)20:235-237. Illus. 9 Ag874
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282. CARRETERO, R. V. Forestación. Rev. Mens. B. A. P. 30 (357):13-14,50; (358):18-19. Aug.-Sept.1947. 9 R326
Reforestation program in Argentina.
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Discusses the possibility of a photogrammetric survey of Argentina's forests and gives an illustration of a tract containing Araucaria angustifolia, photographed aerially in Misiones.
284. CASSAGNE SERRES, A. La industria forestal argentina. Buenos Aires, Baiocco,1929. 102 p. Illus. Pan Amer. Union Libr.
Contents: The forests of Argentina (classification); Exploitation; Lease contracts; Taxation; Various forest operations; Conducting forest enterprises.
285. LA COM. CONSULTIVA Nacional de Bosques. Maderil 8(95): 3-4. May 1936. 99.82 M26
La Comisión Consultiva Nacional de Bosques, organized to coordinate scientific and industrial matters affecting Argentina's forest resource.
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General discussion of forest fires and other elements of forest destruction. Illustrations show conditions in Argentina.

289. COZZO, D. Aún ignoramos la superficie ocupada por los bosques argentinos. Campo [Argentina] 32(393):32-34. Sept.1949. 9 C15

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291. DEBE estimularse la producción de maderas terciadas aptas para la fabricación de aviones para garantizar el provenir de la industria aeronáutica argentina. Maderil 16(187):3-7. Jan.1944.

99.82 M26

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293. DELFOR FERRAZ, H. Comentarios sobre la industria nacional del papel y cartón. Argentina. Sec. de Indus. y Com. B. 1(4):171-174. Jan.1945. 280.9 Ar3

The pulp and paper industry in Argentina. Discusses domestic pulp-wood species.

294. DEVOTO, F. E. Los bosques y la economía forestal argentina. Argentina. Min. de Agr. B. 36:249-270. July/Sept.1934. 9 B633
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Forests and forest economy of Argentina. Discusses the outstanding forest tree species, and tabulates the area of forest cover in each Province or Territory. Discusses general economy and trade.

295. DEVOTO, F. E. Cientos de millones de pesos pierde la Argentina con los incendios de bosques. Chacra 15(173):24-25. Illus. Mar.1945. 9 C34

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296. DEVOTO, F. E. Defensa de la industria tonelera nacional. Vinos, Viñas y Frutas 36(430):525-528. June 25,1941. 9 Ag89

Urge the use of native woods in the cooperage and container industry of Argentina.

297. DEVOTO, F. E., and ROTHKUGEL, M. La época de mayor frecuencia de los incendios en los bosques de la Cordillera patagónica. Argentina Min. de Agr. de la Nac., Almanaque 13:433-437. 1938. 9 Ag874

Forest fire seasons in the mountains of Patagonia.

298. DEVOTO, F. E., and ROTHKUGEL, M. Informe sobre los bosques del Parque Nacional del Iguazú. Argentina Min. de Agr. de

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299. DEVOTO, F. E. El país necesita con urgencia una previsora ley de bosques. Chacra 17(196):32-33,88. Feb.1947. 9 C34

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Actual problems of forest conservation in Argentina.

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Table p.272 estimates area of exploited and unexploited forest in each Province and Territory of Argentina. Discusses the resource situation, forest operations, forest industries, and production.

302. DURLAND, W. D. The quebracho industry of the Argentine. Timberman 24(7):175. May 1923. 99.81 T484

303. DURLAND, W. D. The quebracho region of Argentina. Geog. Rev. 14:227-241. Maps. Apr.1924. 500 Am35G

304. EPPENS, G. A. Política de conservación; situación del problema forestal argentino. Soc. Cien. Argentina, An. 118:161-192. Illus. Oct.1934. 516 S01

Forest conditions in different regions of Argentina.

305. EVOLUCIÓN del mercado de los pinos. Maderil 13(158):25-27. Aug.1941. 99.82 M26

Evolution of pine trade. Statistics indicate increased consumption of Parana pine in Argentina, with a corresponding reduction in imports of other softwood timbers.

306. EXPLOTACIÓN forestal en Misiones. Argentina Min. de Agr. de la Nac. M.A.N. 75:[2-7]. Illus. July/Sept.1944. 9 Ar311M

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309. GRANDES proporcionaron los incendios de bosques en la Patagonia. Maderil 15(175):23-24. Jan.1943. 99.82 M26

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310. GRUNBERG, I. P. Acción del Estado en materia forestal. Buenos Aires U., Facul. de Agron. y Vet., J. Agron. y Vet. 1937:27-42. 1938. 9 J82

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315. JANIS, D. C. Production of industrial quebracho. *Econ. Geog* 21:145-150. Apr.1945. 278.8 Ec7

316. LELLA, E. F. DI. La industria de maderas compensadas en la Republica Argentina. *Argentina. Dir. Gen. de Tierras y Bosques. Dir. Forest. P. Tec.* 10,95 p. Ref. Illus. 1947. 99.9 Ar3

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Plywood imports and plywood production in Argentina. List of timber species utilized in production is appended.

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320. MELILLO, A. C. Los bosques y el Consejo Agrario Nacional. *Maderil* 15(174):7-8; (175):29-32. Dec.1942-Jan.1943. 99.82 M26

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quebracho extract; Ch.13, Estimate of the actual resource of quebracho wood; Ch.14, Conclusions. English summaries. 13 illustrations appended to the text illustrate logging practices.

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Rapid growth of forest industries in Santiago del Estero.

330. OLIMOS CASTRO, A. La riqueza forestal de Santiago del Estero. Maderil 15(180):7-8. Illus. June 1943. 99.82 M26

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331. PATERNOSTO, P. G. Una riqueza potencial de la Argentina: la forestal. Industrialización de la madera. Rosario, Bolsa de Com., Rev. 37(894):5-10. Illus. Apr.15,1949. 287 R71

332. PERRET, G. La sylviculture en République Argentine; régions boisées, peuplement, exploitation, transport, débouchés. Rev. Internat. du Bois 15:130-134. June/July 1948. 99.8 R326

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335. QUEBRACHO extract industry of Argentina. Pan Amer. Union B. 50:510-522. Illus. May 1920. 150.9 M76

336. SANTA FE (PROV.) MINISTERIO DE SALUD PUBLICA Y TRABAJO. La evolución de la agricultura argentina; su situación actual y sus posibilidades en la postguerra. Santa Fé,1944. 146 p. Map. Pan Amer. Union Libr.

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- and quebracho, p.67-72.
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338. SILVANI GOMEZ, A. La forestación en la Provincia de Buenos Aires. Buenos Aires (City) Inst. Agr. Argentino, Reseñas 3 (17):15-18. 1943. 281.9 B862
339. SINIBALDI, M. M. El problema forestal. Histonium [Buenos Aires] 8:732-740. Illus. Dec.1946. Pan Amer. Union Libr.
340. SPALDING, A. Quebracho; case history of a cartel. New Repub. 110:525-527. Apr.17,1944. Libr. Cong.
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341. STOECKELER, J. H. Some notes on forestry in Argentina. J. Forestry 43:760-761. Oct.1945. 99.8 F768
- The situation with regard to professional forestry, soil conservation, planting programs, and forest management in the quebracho region.
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343. TACCARI, I. A. Aprovechamiento de maderas de montes artificiales. Argentina. Min. de Agr. Almanaque 23:339-341. 1948. 9 Ag874
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344. TESDORFF, H. Superficies forestales y reservas madereras de la Argentina. Suelo Argentino 2:195-197. Illus. Mar.1943. 9 Su2 Forest area and timber reserves.
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356. U. S. TARIFF COMMISSION. Agricultural, pastoral, and forest industries in Argentina. Washington, 1947. 96 p. 173 T17Aga

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357. VAIANI, P. R. Riquezas argentinas. Ed.4. Buenos Aires, Corp. de Indus. Madereras y Colon., 1935. 274 p. 280.161 V65

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358. VALLEJO, F. J. El extracto de quebracho; aspectos de una industria netamente argentina. Indus. y Quím. 8(1):24-26. Mar. 1946. 385 In28

359. VALOR económico y función social de nuestra riqueza forestal. Sante Fé. Dir. Gen. de Invest., Estadís. y Censos. B. 2:408-420. Nov. 1948. 255.1 Sa58

Economic value and social function of our forest resource, in Argentina. Tables give information about merchantable forest areas, principal forest species by vegetation zones and the quebracho industry.

360. VELLOSO COLOMBRES, P. A. Plan de reforestación. Cor- doba, Argentina, Dir. de Agropec., B. de Agr. y Ganad. 184/187:28-31,

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35-40. Jan./Dec.1943. 9 C81Bo

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361. VIDAL, J. J. *El árbol en el campo, su cultivo y aprovechamiento*. Buenos Aires, Ateneo, 1947. 322 p. Ref. Illus. 99.24 V66

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362. VIDAL, J. J. Argentina's timber requirements; need for a rational forestry policy. *Rev. River Plate* 99(2809):14,16,18. Oct.12, 1945. 286.8 R32

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363. WILHELMY, H. *Bestandsaufbau und wirtschaftswert des urwaldes am Alto Paraná.* *Z. f. Weltforstw.* 13:61-67. July 1949.

99.8 Z35

Composition and value of the Alto Paraná virgin forests, chiefly in the Misiones territory of Argentina. English and French summaries.

364. ZANETTA, A. *Algunos aspectos de la industria de los combustibles en la República Argentina.* *Indus. y Quím.* 4(6):180-192. Maps. Dec.1942. 385 In28

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Forest Description: Trees, Timber, Utilization of Species

365. AGUERRE, R. O. *Forestales indígenas útiles de Santiago del Estero; sus características y formas de multiplicarlos.* Argentina Min. de Agr. de la Nac., Almanaque 17:371-378. Illus. 1942.

9 Ag874

Useful native tree species of Santiago del Estero.

366. ALBANESI, H. *Forestales que prosperan en el Norte de la Pampa.* Argentina. Min. de Agr. Almanaque 24:157-159. 1949.

9 Ag874

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367. ALFONSO, J. L. *Los bosques sub-antárticos.* Ingen. Agron. 2(10):7-15,62. Ref. Sept./Oct.1940. 9 In4

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368. *ALFONSO, J. L. *Forestales indígenas de la Argentina.* Buenos Aires, Suelo Argentino,1943. 177 p. (Colección Agro 11).

Indigenous forest trees of Argentina.

369. ALFONSO, J. L. *La lenga, Nothofagus pumilio.* Argentina. Dir. de Inform. P. Misc. 264, 14 p. Ref. Illus. Map. 1947. 9 P943
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370. ALFONSO, J. L. *El pehuén, Araucaria o pino del Neuquén en la Argentina.* Ingen. Agron. 3(14):89-100. Ref. Maps. May/June 1941. 9 In4

371. ALONZO, A. E. *Plantación de pino paraná.* Argentina. Min. de Agr. Almanaque 25:273-277. 1950. 9 Ag874

Parana pine plantation grown for pulpwood.

372. AMARAL, R. DE *La madera de álamos del Delta es bien aprovechada en una industria millonaria.* Chacra 17(198):40-41. Apr.1947. 9 C34

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374. *BAEZ, J. R. Regiones forestales de Entre Ríos. Argentina, Min. de Agr. Nac., 1942. 8 p.

375. BAEZ, J. R. La vegetación del norte de San Luis. Physis 15: 357-376. Illus. Mar. 31, 1939. 516 So12

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376. BAEZ, J. R. La verdad sobre el área geográfica del quebracho colorado en Entre Ríos. Rev. Argentina de Agron. 2(5):38-39. Map. Apr. 1935. 9 R327

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377. BARANAO, J. A. El cultivo del mimbre; su importancia en el Delta. Buenos Aires (Province) Sec. de Agr., Ganad. e Indus. An. Rur. 7:235-244. Illus. 1939. 9 B866A

Willow cultivation: its importance in the Parana Delta.

378. BARBOUR, W. R. Cruising quebracho timber in Argentina. Yale Forest Sch. News 9:51-52. Oct. 1921. 99.8 Y1

379. BOTIJA FAJARDO, A. Arboles de ribera. Charla Rur. 141: 32-33. July 1950. 9 C37

Trees growing along river and stream banks in Argentina.

380. BURKART, A. Las especies argentinas y uruguayas del género Caesalpinia. Rev. Argentina de Agron. 3:67-112. Aug. 1936. 9 R327

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381. BURKART, A. Las especies de Mimoso de la flora argentina. Darwiniana 8:9-231. Maps. June 1948. 450 D25

382. BURKART, A. Las leguminosas argentinas; silvestres y cultivadas. Buenos Aires, Acme, 1943. 590 p. Ref. Illus. Map. 452.3 B913

Forest trees listed as producers of timber, tanbark, etc., p. 89-93. Separate species descriptions also give wood uses.

383. CABRERA, A. L. Los árboles indígenas de la Provincia de Buenos Aires. Almanaque Peuser del Mensajero 1948:132-134. 1947. 255.1 AL62

384. CABRERA, A. L., and ABBIATTI, D. Excursión botánica a las Provincias de Salta y Jujuy. La Plata. Mus. Rev. (n. s.) Sec. Ofic. 1944:142-153. Illus. 1945. 516 L31Ro

Describes and illustrates forest vegetation.

385. CABRERA, A. L., and DAWSON, G. La selva marginal de Punta Lara, en la ribera argentina del Río de La Plata. La Plata U., Mus. Rev. (n. s.) Sec. Bot. 5:267-382. Illus. 1944. 451 L31Rb

Ecological study of the river-margin forest at Punta Lara, a biological reserve near Buenos Aires.

386. CARACTERES tecnologicos de 100 maderas argentinas y sus aplicaciones industriales. Maderil 15(175):12-15. Jan. 1943.

99.82 M26

Table of wood properties gives common and scientific name of 100 timber species, and the industrial applications of the species listed.

387. CARMELICH, J. N. F. Estudio forestal del lapacho negro "Tecoma ipé" (Mart.) K. Sch. Ingen. Agron. 1(7):20-34, 36-38. Map. Mar./Apr. 1940. 9 In4

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Forest growth, wood technology, and economics of *Tabebuia ipe* as it occurs in northeastern Argentina.

388. CARNEVALE, J. A. Alamos y sauces. *Pampa Argentina* 21 (243):6-7. Nov. 1947. 9 P19

Poplar and willow, and their products, chiefly in the plantations of the Paraná Delta.

389. CARNEVALE, J. A. Arboles forestales; descripción, cultivo, utilización. Ed.2. Buenos Aires, Ateneo, 1945. 455 p. Ref. Illus. Map. 99.3 C21

A German summary of the first edition with map, appears in *Z. F. Weltforstwirt.* 5:931-934. Sept. 1928. 99.8 Z35

Chiefly seeding and planting of cultivated tree species. The section on Argentine forests in general, p.38-48, contains a discussion of phytogeographic regions in the country, and a map; also estimates of forest areas by Province and Territory, and a list of tree species and the vegetation zones in which they occur.

390. CARRIZO, M. La flora en la cordillera Sanjuanina. *Vinos, Viñas y Frutas* 41:69-74. July 1945. 9 Ag89

Lists trees, with brief notes on wood qualities and uses.

391. CASTELLANOS, A. Algunas formaciones características de la vegetación argentina. *Reunião Sul-Amer. de Bot. An.* 3:383-388. Illus. 1940. 451 R31

392. CASTELLANOS, A. Algunas observaciones relativas a los bosques antartándicos. *Lilloa.* 2:333-339. Ref. Illus. Map. 1938. 450 L62

The range of *Araucaria araucana* in Argentina.

393. *CASTELLANOS, A. Contribución a la flora de San Luis, 2. El guayacán del bajo de los Velez. *Lilloa* 10:433-444. Dec. 1944.

Caesalpinia melanocarpa.

394. CASTELLANOS, A., and PEREZ MOREAU, R. A. Los tipos de vegetación de la República Argentina. Tucumán U., Facul. de Filos y Letras, Monograf. del Inst. Estud. Geog. 4,154 p. Ref. Illus. Maps. 1944. 457.1 C27

395. CASTRO, E. B. Maderas argentinas. *Rev. Forest.* 4:2337-2339, 2369-2371, 3001-3003, 3015-3019, 3033-3036, 3054-3055, 3066-3069, 4029-4030, 5122-5123, 5161-5163. Mar. 18, Apr. 8, 22, 29, May 6, 13, 20, June 17, Aug. 5, Aug. 26, 1920. 99.8 R324

For each timber named, describes the tree, its habit and range, wood properties, and uses.

396. CASTRO BIEDMA, M. El país del pehuén [*Araucaria araucana*]. *Rev. Geog. Amer.* 29:145-149. Illus. Apr. 1948. 475 R322

General topographic aspect, and forest tree species found in the Territory of Neuquén, Argentina.

397. CECONATO, A. La fabricación de bordelesas en Cuyo; nueva industria con maderas regionales. *Vinos, Viñas y Frutas* 41:370-371. Jan. 1946. 9 Ag89

Wine containers manufactured from Argentine woods.

398. CLOS, E. C. Primera contribución al conocimiento de los árboles cultivados en la Argentina. *Argentina Min. de Agr. B.* 28:29-63. Ref. Illus. Jan./Mar. 1929. 9 B633

Also separate, 457.1 C62.

Includes natural occurrence of native species, and some notes on wood utilization. Subsequent items in this series concentrate on botanical information.

*Not examined.

Argentina

399. CODONI, J. C. Contribución al estudio químico y aplicación de nuestros arboles: el guayaibí (*Patagonula americana*). Buenos Aires U. Nac., Facul. de Quím. Indus. y Agr. Rev. 15/16:120-126. 1947. 385 Sa5

Includes discussion of utilization.

400. COEFICIENTES físico-mecánicos, características y aplicaciones industriales de las principales maderas argentinas y de importación. Maderil 17(199):10-13. Jan. 1945. 99.82 M26

Properties, characteristics and industrial applications of the principal Argentine timbers (73 in all) and of 15 imported species.

401. CORNELL, C. Especies maderables aptas para la confección de envases para frutas. Argentina Min. de Agr. de la Nac. B. 35(1/3): 13-67. Ref. Illus. Oct./Dec. 1933. 9 B633

Timber species useful in fruit-box manufacture. Includes properties, silviculture, and utilization of exotic and indigenous species.

402. COSTANTINO, I. N. Parcelas experimentales permanentes, *Libocedrus chilensis* (Don) Endl.; estudios de crecimientos y regeneración natural. Argentina. Min. de Agr. y Ganad. P. Téc. 13, 112 p. Ref. Illus. Map. 1949. 9 Ar37

Permanent sample plots for *Libocedrus chilensis*; a study in increment and natural regeneration.

403. COVAS, G. Las coníferas indígenas de la República Argentina. Rev. Argentina de Agron. 6:15-34. Ref. Mar. 1939. 9 R327

Also in La Plata U., Facul. de Agron. Rev. 21:201-223. 1938. 9 R32

404. COZZO, D. Algunas observaciones sobre el álamo híbrido "Arnaldo Mussolini." Argentina. Min. de Agr. Almanaque 20:253-255. 1945. 9 Ag874

Some observations of the hybrid poplar "Arnaldo Mussolini", planted for pulpwood production in the Paraná Delta.

405. COZZO, D. La Argentina necesita bosques de coníferas. Campo y Suelo Argentino 32(391):46-47. July 1949. 9 C15

406. COZZO, D. El bosque de Bahía Aguirre en Tierra del Fuego (Argentina). Rev. Argentina de Agron. 16:193-198. Illus. Dec. 1949. 9 R327

407. DEMARIA MASEY, D. Es necesario fomentar el cultivo de los árboles indígenas más valiosos; los cedros del Norte están entre ellos y son de fácil multiplicación. Rosario, Bolsa de Com., B. Ofic. 32(782):3-4. Aug. 15, 1944. 287 R71

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408. DETWILER, S. B. Quebracho makes shoes. Agr. Amer. 3(4): 65-67. Illus. Apr. 1943. 1 F752A

409. *DEVOTO, F. E., and ROTHKUGEL, M. Aplicaciones de las maderas argentinas y demás productos forestales. Argentina Min. de Agr. P. Misc. 186, 96 p. 1945.

Uses of Argentine timbers and other forest products.

410. DEVOTO, F. E. La Argentina podría producir todo el pino paraná que precisa. Chacra 17(199):28-30, 99. May 1947. 9 C34

411. *DEVOTO, F. E., and ROTHKUGEL, M. Índice de la flora leñosa argentina. Argentina Min. de Agr., Misc. P. 140, 182 p. Ref. Apr. 1943.

Index to the woody flora of Argentina.

412. DEVOTO, F. E. Por qué debemos producir madera para papel y otras aplicaciones. Chacra 15(171):24-26. Illus. Jan. 1945. 9 C34

*Not examined.

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Wood for pulpwood and other applications. The need in Argentina, and a discussion of some fast-growing species introduced by the author.

413. DOMINGUEZ, P. Algunas aplicaciones de las maderas argentinas. Argentina Admin. Nac. de Agua Rev. 10:184-189. Ref. Mar. 1946. Pan Amer. Union Libr.

414. *DOMINGUEZ, P. Maderas argentinas. Argentina Admin. Nac. de Agua B. 9(94):284-298. Ref. Apr. 1945.

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416. DONAT, A. Zur begrenzung des magellanischen florengebietes. Deut. Bot. Gesell. Ber. 52:131-143. Ref. Maps. Mar. 1934.

451 D48

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417. DURLAND, W. D. Notes on quebracho colorado. J. Forestry 21:600-603. Oct. 1923. 99.8 F768

Discusses growth and regeneration of *Schinopsis lorentzii*, and the exploitation of quebracho forests.

418. FERUGLIO, E. Algunos datos sobre el límite altimétrico de la vegetación arbórea en la cuenca del Lago Argentino (Patagonia). Gaea [Buenos Aires] 5:91-96. Illus. 1937. Libr. Cong.

Timber line in the vicinity of Lago Argentino.

419. FLINTA, C. M. Crecimiento de *Eucalyptus* en Misiones y su valor económico. Argentina. Min. de Agr. Almanaque 23:193-196.

1948. 9 Ag874

Growth and increment in a eucalyptus plantation in Misiones, and its economic value.

420. FOXA, J. DE Personalidad y símbolo de los bosques argentinos. Montes 3:287-295. Illus. May/June 1947. 99.8 M763

Forest trees and vegetation types in Argentina.

421. FOXA TORROBA, J. DE El tropico frío. Montes 2:434-437. Sept./Oct. 1946. 99.8 M763

Forests of the Andes mountains, Argentina.

422. FRANCKE, A. Waldverbreitung und holzarten in Argentinien. Z. f. Weltforstwirt. 3:615-629. Ref. Illus. Maps. July 1936.

99.8 Z35

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423. FRENGUELLI, J. Rasgos principales de fitogeografía argentina. La Plata U. Mus. Rev. (n. s.) 3, Sec. Bot.:65-181. Ref. Illus. Map. 1941. 516 L31Rb

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424. FRENGUELLI, J., and CABRERA, A. L. Relación sumaria de un viaje en las zonas petrolíferas de la región boscosa salto-jujeña. La Plata U., Mus. Rev. (n. s.), Sec. Ofic., 1937:63-83. 1938.

516 L31Ro

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425. GIACOBBI, O. L., and ALFONSO, J. L. El área geográfica del raulí [*Nothofagus*] en la República Argentina. Rev. Argentina de Agron. 6:120-123. Illus. Map. July 1939. 9 R327

*Not examined.

Argentina

426. GIACOBBI, O. L. Los bosques argentinos proveedores de maderas para la aviación. Argentina. Min. de Agr. Almanaque 23:309-311. 1948. 9 Ag874

Argentine forests as providers of timber for aircraft construction.

427. GIACOBBI, O. L. Importancia económica del pino de Misiones [Araucaria angustifolia]. Suelo Argentino 2:640-642. Map. Aug. 1943. 9 Su2

428. GIACOBBI, O. L. El quebracho blanco. Argentina. Min. de Agr. Almanaque (1945) 20:111-114. Illus. 9 Ag874

Aspidosperma and its exploitation in Argentina, for lumber, charcoal, and other products.

429. GONZALEZ ARRILI, B. Nuestra riqueza forestal, existe? Pampa Argentina 18(199):1,31. Mar. 1944. 9 P19

Table shows usual stocking per acre of certain species in a quebracho-producing area of Argentina.

430. LE GRAN riqueza forestal en Misiones; principales maderas, sus aptitudes y demás propiedades industriales. Arte de Madera [Buenos Aires] 20(171):11-14. Jan./Feb. 1944. Pan Amer. Union Libr.

The forest wealth of Misiones; principal timbers, their uses and industrial properties.

431. GRAVEL, R. E. Argentina and Paraguay are main producers of quebracho extract. Foreign Trade 4:762-764, 836-838. Oct. 16-23, 1948. 286.8 C162

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The problem of forest plantations in Argentina: choosing the species. Discusses native trees and exotics.

434. GUTIERREZ, S. O. El horco quebracho (*Schinopsis marginata* Engl); sus cualidades específicas lo destacan como un valioso elemento de forestación. Córdoba (Prov.) Argentina. Div. de Agropecuaria B. de Agr. y Ganad. 192:28-31. Jan./Dec. 1946. 9 C81Bo

Also in Rosario, Bolsa de Com., Rev. 35(842):17, 19-20. Feb. 15, 1947. 287 R71

435. HAUMAN, L. Esquisse phytogéographique de l'Argentine subtropicale et de ses relations avec la géobotanique sud-américaine. Soc. Roy. de Bot. de Belgique B. 64:20-80. Ref. Illus. Map. 1931. 451 B41B

Describes the regional vegetation of subtropical Argentina, and lists the forest trees in each region, divided as follows: The subtropical forests of the Territory of Misiones; Forests and savannas of the Chaco; and the Tucuman-Bolivian forest. A geobotanic zone map including parts of Brazil, Paraguay, Bolivia, and Chile, with Argentina, faces p.64.

436. HAUMAN, L. Étude phytogéographique de la Patagonie. Soc. Roy. de Bot. de Belgique B. 58:105-179. Ref. Illus. Maps. 1926.

451 B41B

Includes the forests of the Andes-Patagonia area.

Argentina

437. HAUMAN, L. Les modifications de la flore argentine sous l'action de la civilisation. Brussels, Académie Royale de Belgique, 100 p. 457.1 H29

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438. HAUMAN, L. Nuestros arboles: el algarrobo blanco. Rev. Mens. B. A. P. 30(360):10. Map. Nov. 1947. 9 R326

Map shows approximate distribution of *Prosopis alba* in Argentina.

439. HAUMAN, L., and others. La vegetación de la Argentina. Buenos Aires, "Coni," 1947. 349 p. Ref. Illus. 457.1 H29V

A Burkart, L. R. Parodi, and A. L. Cabrera, joint authors.

Detailed vegetation analyses and illustrations of forest types.

440. HAUMAN, L. Un viaje al país de las Araucarias. Rev. Geog. Amer. 8:69-74. Illus. Feb. 1941. Pan Amer. Union Libr.

A voyage to the country of Araucaria araucana.

441. HAVRYLENKO, D. El guayacán (*Caesalpinia melanocarpa* Griseb.). Argentina, Dir. de Tierras, Contrib. al Conocimiento de los Bosques, P.4,8 p. 1935. 99.9 Ar32

442. IMPOSTI, V. B. El uso de la madera en el Valle de San Javier. Córdoba. U. Nac. Facul. de Cien. Exact., Fís. y Nat. Rev. 12: 321-344,655-676,1529-1562. Illus. 1949. 516 C81B

The use of wood in the San Javier valley in Argentina. Shows domestic, farm, and structural use, with names of woods used.

443. KANTER, H. Der Gran Chaco und seine randgebiete. Abhandl aus dem Gebiet der Auslandskunde [Hamburg] 43,376 p. Ref. Illus. Map. 1936. (Reihe c. Naturwiss. 13.) Libr. Cong.

Gran Chaco and its surrounding territory. Includes forest and woodland vegetation types, with a map on p.303.

Review with map in Rev. Argentina de Agron. 3:194-196. 1936.
9 R327

444. KOUTCHE, V., and CARMELICH, J. N. F. Contribución al conocimiento de los bosques de la República Argentina: estudio forestal del caldén [*Prosopis caldenia*]. Argentina Min. de Agr. de la Nac. B. 37:109-128. Map. 1935. 9 B633

Natural occurrence, botanical description, and wood utilization.

445. KOUTCHÉ, V. Vegetación forestal del Parque Nacional del Iguazu. Buenos Aires, Argentina. Administración General de Parques Nacionales y Turismo, 1948. 75 p. Illus. 99.24 Ar3

Consists chiefly of leaf pictures to use in identifying species found in the Misiones forest. Common and scientific names are given.

446. KUHN, F., and ROHMEDER, G. Estudio fisiográfico de las sierras de Tucumán. Ed.2. Tucumán U., Inst. de Estud. Geog., Monog. 3,96 p. Ref. Illus. Maps. 1943. Libr. Cong.

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447. *KUHN, F. Vegetationsbilder ... nordwesten Argentiniens. In Karsten, G. Vegetationsbilder, Reihe 26, H. 2 & 9. 1942? 452.9 K142

448. LATZINA, E. Calorimetría de maderas, pertenecientes a especies existentes en la Provincia de Tucumán. Lilloa 1:235-248. 1937. 450 L62

Table gives scientific and common names of Tucumán timbers.

449. LATZINA, E. Index de la flora dendrológica argentina. Lilloa 1:95-211. Illus. Ref. 1937. 450 L62

Includes notes on range, distribution and utilization of woods; and a common-name index for Argentine trees.

*Not examined.

Argentina

450. LATZINA, E. Nueva ensayos de gasificación de maderas del país. Lilloa 2:185-249. Ref. 1938. 450 L62

Tests of 10 Argentine woods, as raw materials for motor gas production. Includes information on distribution and abundance of the woods tested.

451. LATZINA, E. Poderos caloríficos de maderas argentinas. Argentine Repub. Min. Agr. B. 30(1):23-47. Jan.-Mar. 1931. 9 B633

Calorific power of 35 Argentine woods. Includes also descriptions of timbers tested, and their occurrence.

452. LATZINA, E. Tabla general de pesos específicos de maderas argentinas. Córdoba [Argentina] Acad. Nac. de Cien., B. 36:230-270. 1943. 516 C81

Tables of specific weights of Argentine woods includes scientific and common names of trees, with an index to the latter, and classified lists of light and heavy woods.

453. LEBEDEFF, N. Algunas observaciones sobre los bosques chaqueños. Argentina, Dir. de Tierras, Contrib. al Conocimiento de los Bosques P.3,43 p. Illus. 1933. 99.9 Ar32

Observations, chiefly silvical, regarding Chaco forests. Includes quebracho.

454. LEBEDEFF, N. Apuntes sobre reforestación de los terrenos desarbolados en la zona del Lago Nahuel Huapi. Argentina, Dir. de Tierras, Contrib. al Conocimiento de los Bosques P.2,47 p. Illus. 1932. 99.9 Ar32

Notes on reforestation of deforested lands in the zone of Lake Nahuel Huapi.

455. LEONARDIS, R. F. J. Arboles de la Argentina y aplicaciones de su madera. Buenos Aires, Suelo Argentino, 1948. 277 p. Maps. 99.79 L55

456. LJUNGNER, E. A forest section through the Andes of northern Patagonia. Svensk Bot. Tids. 33(4):321-337. 1939. 450 Sv2

457. MADUEÑO, R. R. Fundamentos para un carácter federal de la ley de bosques. Viños, Viñas y Frutas 39(455):54-56. July 1943. 9 Ag89

Phytogeographic divisions of Argentina as a basis for planning forest laws.

458. MANZI, F. Flora y fauna del norte correntino. Rev. Geog. Amer. 22:350-354. Dec. 1944. 475 R322

Includes common names of forest trees and notes forest products.

459. MARTIN, R. R. Contribución al estudio del cedro misionero [*Cedrela fissilis*]. Argentina. Dir. de Inform. P. Misc. 232,19 p. 1946. 9 P943

Cedrela fissilis described with regard to its appearance, silvical characteristics, forest type associates, growth, utilization, reproduction, and timber production costs.

460. MEYER, T. Los árboles indígenas de importancia económica del Departamento de Resistencia (Chaco). Rev. Argentina de Agron. 4:153-167. Sept. 1937. 9 R327

Notes forest plant associations, and for each tree species gives nomenclature, relative abundance, occurrence, and uses of wood.

461. MEYER, T. Breves observaciones sobre la vegetación de las inmediaciones de la Estación Pampa de los Guanacos (Santiago del Estero). Maderil 11(129):9-12. Illus. Mar. 1939. 99.82 M26

462. MEYER, T. Características climáticas y botánicas del Territorio del Chaco y norte de la Provincia de Santa Fé. Argentina, Comm. Centr. de Invest. sobre la Langosta, Mem. 1934:145-156. Map 1936. 429 Ar35M

An analysis of vegetation zones.

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463. MEYER, T. Características de la flora del Departamento de Resistencia (Chaco). Rev. Argentina de Agron. 2:349-358. Jan. 1936. 9 R327

464. MEYER, T. Las Sapotáceas argentinas. Lilloa 13:97-124.

1947. Ref. Maps. 450 L62

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465. MEYER, T. Un viaje botánico al Departamento de Oran (Provincia de Salta). Rev. Geog. Amer. 21:255-264. Illus. May 1944. 475 R322

Includes listing and illustration of trees.

466. MONTICELLI, J. V. Anotaciones fitogeográficos de la Pampa Central. Lilloa 3:251-382. Illus. Dec. 27, 1938. 450 L62

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467. MULLER GUENNARD, R. G. Utilización de tanino de caldén para mejorar diversos curtidos. Maderil 16(181):8-9. July 1943. 99.82 M26

Utilization of caldén [Prosopis] as a source of tannin.

468. MUÑOZ, E. F. Aplicación industrial de maderos forestales indígenas. Almanaque Peuser del Mensajero 1947:234. 1946.

255.1 AL62

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469. *NOMINA de las maderas del país. Buenos Aires, Argentina Dir. Gen. de Tierras, Div. de Bosques y Yerbales, 1932? 8 p.

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470. PARODI, L. Los bosques naturales de la Provincia de Buenos Aires. Acad. Nac. de Cien. Exactas, Fís. y Nat. [Buenos Aires], An. 7:79-90. Illus. Map. 1940. Libr. Cong.

471. PARODI, L. R. La distribución de los talares [Celtis tala] en la Provincia de Buenos Aires. Darwiniana 4:33-56. Illus. Map. Apr. 1940. 450 D25

Ecological analysis of a riverbank plant association. Includes a list of common and scientific names of tree species.

472. PARODI, L. R. Las plantas indígenas no alimenticias cultivadas en la Argentina. Rev. Argentina de Agron. 1:165-212. Ref. Map. Nov. 1934. 9 R327

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473. PARODI, L. R. Por qué no existen bosques naturales en la llanura bonaerense si los árboles crecen en ella cuando se los cultiva? Agronomía [Argentina] 30(4):387-390. June 1942. 9 B864

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474. PARODI, L. R. Las regiones fitogeográficas argentinas y sus relaciones con la industria forestal. In Plants and Plant Science in Latin America, p. 127-132. Ref. Waltham, Mass., Chron. Bot., 1945. 453 V58

475. PARODI, L. La vegetación de Reconquista: región de bosques de espinillos, palmas y sabanas de altas gramíneas. Rev. Geog. Amer. 1:389-407. Illus. Mar. 1934. Amer. Geog. Soc. Libr.

Vegetation of Reconquista, northern Argentina; a region of thorn forests, palms, and tall-grass savanna.

*Not examined.

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477. PARODI, L. R. Viaje a la Provincia de Catamarca. La Plata Mus. Rev., (n. s.) Sec. Ofic. 1941:64-77. Illus. 1942. 516 L31Ro Describes the vegetation of the Province.

478. PEREZ MOREAU, R. A. La provincia antartándica. Holmbergia [Buenos Aires] 3(7):93-110. Ref. Illus. Map. Oct. 25, 1944. 410 H73

The vegetation province, southern Chile and Argentina.

479. PEREZ MOREAU, R. A. Reseña botánica sobre los Parques Nacionales Nahuel Huapi, Los Alerces y Lanín. San Carlos de Bariloche, Mus. de la Patagonia, An. 1:253-378. Ref. Illus. Maps. 1945. 516 Sa57

Vegetation analysis of botanical provinces common to Chile and Argentina.

480. PERRET, G. La République Argentine; les araucarias. *Rev. Internat. du Bois* 1(2):71-75. Feb. 1934. 99.8 R326

481. PICO, J. A. Proyecto de forestación de dos millones quinientas mil hectáreas en la zona Norte de la Pampa y Sud de Córdoba. *Ingen. Agron.* 1(7):4-15. Mar./Apr. 1940. 9 In4

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482. PILAR RODRIGO, A. DEL Un viaje a las Cataratas del Iguazú La Plata. Mus. Notas. Bot. 13:291-305. Ref. 1948. 451 L31

Includes forest vegetation.

483. PINO, R. A. R. DEL El bosque xerófilo, principal riqueza regional. *Rev. Mens. B. A. P.* 31(369):26-30. Illus. Aug. 1948. 9 R326

The deforestation problem in the dry-forest area of central Argentina.

484. PRINCIPALES maderos del Chaco. Arte de Madera [Buenos Aires] 20(172):9-11; (173):11-13; (174):11-13,15; (175):13-15. Mar./Apr., Sept./Oct. 1944. Pan Amer. Union Libr.

Principal timbers of the Chaco territory.

485. RAGONESE, A. E. Algunas consideraciones referentes al límite de los bosques andino-patagónicos. *Physis* 12:97-101. Ref. Illus. Apr. 30, 1936. 516 So12

Some considerations with regard to the limit of the range of Andes-Patagonian forests.

486. RAGONESE, A. E. Aprovechamiento de los bambúseas santa-fecinas. *Rev. Argentina Agron.* 10:191-192. June 1943. 9 R327

Economic uses of Guadua paraguayana and G. angustifolia.

487. RAGONESE, A. E., and COVAS, G. La distribución geográfica de los quebrachales en la Provincia de Santa Fé. *Rev. Argentina de Agron.* 7:176-184. Illus. Map. Sept. 1940. 9 R327

Also lists associated timbers.

488. RAGONESE, A. E., and CASTIGLIONI, J. A. Los pinares de Araucaria angustifolia en la República Argentina. Soc. Argentina de Bot. B. 1:126-147. Ref. Illus. Map. Apr. 1946. 451 So124

Also includes forest species associated with Araucaria angustifolia.

489. RAGONESE, A. E., and CASTIGLIONI, J. A. Nueva especie del género "Schinopsis" y área geográfica de las especies argentinas. Buenos Aires. Inst. de Bot. P. Tec. (n. s.) 7:93-100. 1947. Ref. Illus. Map. 451 B863

Also in *Rev. de Invest. Agr.* 1:93-100. Apr. 1947. 9 R329

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Argentina

490. RAGONESE, A. E., and COZZO, D. Raíces gemíferas en el "palo santo." Argentina. Dir. Forest. P. Tec. 3:7-8. 1945. 99.9 Ar3
Notes root sprouting habit of *Bulnesia sarmienti* in Formosa. Discusses the occurrence and uses of this timber, and forest tree species associated with it in Formosa and the Chaco.
491. RAGONESE, A. E. La vegetación de la Provincia de Santa Fé. Darwiniana 5:369-416. Illus. Maps. 1941. 450 D25
Discusses vegetation zones, including the region where quebracho grows, and the gallery and thorn forests.
492. *ROHMEDER, G. Beobachtungen in den wäldern von Tucumán. Deut. Volksbund f. Argentinien, Jahrb. 1943.
Observations in the forests of Tucumán.
493. ROTHKUGEL, M. Estudio del crecimiento y rendimiento del alamo criollo (*Populus nigra* var. itálica, Du Roi) en el Delta del Paraná. La Plata, Buenos Aires (Prov.) Dir. de Agr., Ganad. e Indus, 1938. 44 p. 452.35 B86
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494. SANCHO, A. D. Observaciones sobre la explotación de eucaliptales in Mendoza. Soc. Rur. Argentina, An. 84(12):50-51. Dec. 1950. 9 So1
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722. BARRETO, H. I. DE M. Regiões fitogeográficas de Minas Gerais. An. Bras. de Econ. Florestal 2:352-369. 1949. Ref. 99.83 An8

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725. *BASTOS, A. DE M. As madeiras da Amazonia na industria do papel. Para, Mus. Com., Escola de Chim. Indus. B. 1:80-83. 1930.

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726. BASTOS, A. DE M. As madeiras do Pará. Brazil. Serv. Florestal. Arq. 2:157-183. Nov. 1946. 451 B733

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737. BRAZILIAN timber. Internat'l. Rev. of the Sci. & Pract. of Agr. 11(7/8):873-877. July/Aug.1920. 241 In82

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738. BREVES informações sobre a Piptadenia communis ("jacaré"). Rio de Janeiro, Brazil. Serviço Florestal, 1943. 8 p. 99.47 B734

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742. BRUSH, W. D. Brazilian Araucaria ("Parana pine").

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743. BUSTAMENTE, I. L. F. Notas sobre algumas madeiras úteis do Sul de Minas. Rev. Florestal 7:7-16,24. 1948. 99.8 R325

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745. CAMPOS PORTO, P. Plantas indigenas e exóticas provenientes da Amazonia, cultivadas no Jardim Botanico do Rio de Janeiro. Rodriguésia 2(5):93-157. Winter 1936. 442.8 R61

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747. CHEVALIER, A. Sur l'origine des campos brésiliens et sur le rôle des Imperata dans la substitution des savanes aux forêts tropicales. Paris Acad. Sci., Comptes Rendus des Séances 187(22):997-999. Nov. 26, 1928. 505 P21

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762. DUCKE, A. Le bois de rose des États brésiliens du Pará et de l'Amazonie. Rev. Bot. Appl. & d'Agr. Colon. 8(88):845-847. Dec. 1928. 26 R323

Aniba, Ocotea, and Nectandra.

763. DUCKE, A. Colheita de material botânico na região amazônica. Braz. Min. da Agr. B. 23(1-3):71-79; (4-6):33-47; 27(406):23-58. Jan./Mar. - Apr./June 1934, Apr./June 1938. 9.2 Ag83

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Sup., 5:191-199. July 1930. Both contain information on distribution of species, and nomenclature.
767. DUCKE, A. The most important woods of the Amazon Valley. Trop. Woods 74:1-15. June 1943. 99.08 Y1Tr
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769. DUCKE, A. New and noteworthy Sapotaceae of Brazilian Amazonia. Trop. Woods 71:7-25. Sept. 1942. 99.08 Y1Tr
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770. DUCKE, A. Notes on the purpleheart trees (Peltogyne Vog.) of Brazilian Amazonia. Trop. Woods 54:1-7. June 1938. 99.08 Y1Tr
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778. *EMRICH, K. Os nomes populares das plantas do Rio G. do Sul ... Porto Alegre, 1935. 76 p. 452.14 Em7
779. *ESSENCIAS florestais de valor economico. Bras. Madeireiro 2(18):7-11. 1946.
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780. A EXPLORAÇÃO da castanha do Pará. Rio de Janeiro, Brazil. Ministerio da Agricultura, Industria e Commercio, 1929.

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783. FONSECA FILHO, C. DE A. Reflorestamento, com finalidade exclusiva de produção rápida de lenha para combustível e carvão lenha para combustível e carvão vegetal; angico vermelho [Piptadenia macrocarpa]. Rev. Ceres 7:429-437. June/Sept. 1948. 9.2 C332

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787. FREISE, F. W. Beobachtungen in zweitwuchsbeständen aus dem küstenurwaldgebiet Brasiliens. Z. f. Weltforstwirt. 6:281-299. Feb. 1939. 99.8 Z35

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789. FREISE, F. W. Brasilianische gerbstoffpflanzen und ihre ausbeutung. Tropenpflanzen 35:70-74. Jan. 1932. 26 T75

Brazilian tannin plants and their extraction.

790. FREISE, F. W. Die edelhölzer Brasiliens. Tropenpflanzer 34:137-153. Apr. 1931. 26 T75

Precious woods of Brazil. Also discusses the forest economy of the country.

791. FREISE, F. W. Einige bemerkungen über soziologische verhältnisse im urwald. Z. f. Weltforstwirt. 6:603-621. June 1939. 99.8 Z35

Brief English summary. Observations on socio-ecological conditions in tropical coast forests of Brazil.

792. FREISE, F. W. Ersatzbeschaffung für edel-und luxushölzer

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796. FREISE, F. W. Odoriferous woods from the Brazilian virgin forest. Perfumery & Essential Oil Rec. 24:375-376, 410-412. Nov.-Dec. 1933. 308.9 P41

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798. GLEASON, H. A., and PANSHIN, A. J. Swietenia krukovii: a new species of mahogany from Brazil. Amer. J. Bot. 23:21-25. Jan. 1936. 450 Am36

Discusses differentiation of mahogany species; describes the range and exploitation of mahogany in Brazil.

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803. HERGERT, P. The use of imbuia [Phoebe porosa] veneers in Europe. Trop. Woods 26:10-11. June 1931. 99.08 Y1Tr

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804. HERINGER, E. P. Contribuição ao conhecimento da flora da zona da mata de Minas Gerais. Brazil Serv. Nac. Pesquisas Agron. B. 2,187 p. Ref. Nov. 1947. 9.2 B738

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tophysionomia do Brasil.) 457.2 Sa6

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806. HOEHNE, F. C. *A bracaatinga ou abaracaatinga.* São Paulo, Secretaria da Agricultura, Industria, e Commercio, 1930. 47 p. Illus. 99.35 Sa6

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807. HOEHNE, F. C. *Entre o falso e o legitimo pau-brasil.* Chacaras e Quintais 79:308-310. Mar. 15, 1949. 9.2 C34

The false and true Brazil-wood.

808. HOEHNE, F. C. *As florestas da Serra do Mar.* São Paulo Sec. de Agr., Indus. e Com., Notas Agr. 6:99-103. 1943. 31.9 Sa63

809. HORN, E. F. Brazilian substitutes for gutta percha. Carib. Forester 9:45-47. Jan. 1948. 1.9622 T2C23

Different kinds of balata.

810. HORN, E. F. Brazilian tanning materials. Trop. Woods 88: 32-34. Dec. 1946. 99.08 Y1Tr

Occurrence of trees, tannin o/o in bark, and other economic notes.

811. HORN, E. F. Commercial timbers of Brazil, 1,500,000 square miles of forest resources. Braz. Business 15:237-242, 260, 262, 266, 268, 270, 272. May/June 1945. 286.8 B732

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812. HORN, E. F. Durability of Brazilian crossties. Trop. Woods 93:30-35. Mar. 1948. 99.08 Y1Tr

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813. HORN, E. F. The grasslands, savanna forests, and dry forests of Brazil. Carib. Forester 8:135-143. Apr. 1947. 1.9622 T2C23 French and Spanish summaries.

814. HORN, E. F. New uses for Brazilian timbers. Trop. Woods 86:12-13. June 1946. 99.08 Y1Tr

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815. HORN, E. F. Teredo resistant timbers of the Amazon Valley. Trop. Woods 93:35-40. Mar. 1948. 99.08 Y1Tr

816. IGLESIAS, F. DE A. O crescimento das essencias florestaes brasileiras. Brazil Forest Serv. B. 3,32 p. Illus. 1930. 99.9 B73

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817. O IMBARÉ [Cavanillesia], madeira capaz de substituir a corteza. Brazil, Conselho Fed. de Com. Exter. B. 3(39):558. Nov. 11, 1940. 255.3 B738B

The light white wood of the barriguda tree, as a substitute for cork, and its use for airplane fittings, and other products.

818. JAMES, P. E. A vegetation map of Paraná. Geog. Rev. 22: 676-677. Oct. 1932. 500 Am35G

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822. KOSCINSKI, M. Pinheiro brasileiro como especie mais indicada para uma nova industria construção de aviões -- varias notas. São Paulo Sec. de Agr., Indus. e Com., Notas Agr. 6:343-346. 1943. 31.9 Sa63

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823. KOSCINSKI, M. O pinheiro brasileiro na silvicultura paulista. São Paulo (State) Secretaria da Agricultura, Industria e Commercio, 1934. 56 p. Illus. 99.35 Sa62P

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825. KUHLMANN, M., and VIANNA, A. As madeiras nacionais na paz ou na guerra: "açoita cavalo" -- *Luehea divaricata* Mart. e espécies afins (Tiliaceae). São Paulo Inst. de Bot. Relat. An., p.105-126. Ref. Illus. Mar. 1944. 451 Sa62

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826. LABOURIAU, L. F. G., and MATTOS FILHO, A. DE Notas preliminares sôbre a "Região da Araucária". An. Bras. de Econ. Florestal 1:215-228. Illus. 1948. 99.83 An8

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827. LARDNER, G. B. S. Commercial timbers of the Amazon. Wood [London] 14:9-11. Illus. Jan. 1949. 99.82 W855

828. LEAHY, J. G. Brazilian woods will help build the New World. Brazil's tropical trees promise pioneers some interesting rewards in scientific research. Brazil 19(8):14-16. Aug. 1945. 280.8 B732

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833. LESCHNER, F. Das Araucarien-holz Süd-brasieliens und seine wirtschaftliche bedeutung. Weltholzwirtschaft 1:25-30. Feb. 1949.

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834. LÖBBE, H. Como eu vi o pau-novo (*Séssea brasiliensis*) no Estado de Minas Gerais. Chacaras e Quintais 74:431-434. Oct. 15, 1946. 9.2 C34

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835. *LUETZELBURG, P. VON. Als botaniker auf expeditionen ins nördliche Amazonasgebiet. Z. f. die Gesam. Naturw. 9:35-43. Ref. Map. Jan./Feb.1943. 509 Z3

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836. LUETZELBURG, P. VON Estudo botanico do Nordéste. Rio de Janeiro, Brazil Inspectoria Federal de Obras Contra as Seccas, 1922-23. 3 v. Ref. Illus. Maps. (Publicação 57, Série I, A.) 9.2 B73

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837. LUETZELBURG, P. VON Die pflanzengeographischen verhältnisse im Amazonas-Gebiet. Deut. Bot. Gesell. Ber. 57:247-262. Illus. Aug.2,1939. 451 D48

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838. A MADEIRA no Espírito Santo. An. Bras. de Econ. Florestal 2:413. 1949. 99.83 An8

Estimate of the amount of virgin timber standing in Espirito Santo, and various tree species represented.

839. MADEIRAS brasileiras de exportação. An. Bras. de Econ. Florestal 2:43-50. 1949. 99.83 An8

List of timbers exported from Brazil, many of which are making their debut on the market. Gives common and scientific names.

840. MADEIRAS brasileiras para escadas. An. Bras. de Econ. Florestal 2:412-413. 1949. 99.83 An8

Parana pine and freijó [*Cordia goeldiana*] used to make ladders.

841. MAGUIRE, E. G. Gifts of the Americas: Paraná pine (Brazilian Araucaria). Agr. Amer. 6:79. Apr.1946. 1 F752A

In addition to describing a typical Parana pine forest, with its components, discusses the industry developed in this region.

842. MELLO, O. S. A merindiba [*Lafoensia glyptocarpa*]. Rio de Janeiro, Brazil. Departamento Nacional da Produção Vegetal, 1938. 110 p. Illus. 99.35 Si3

A tree said to be abundant in the forests of Gavea, Brazil. Includes its uses for fuelwood, construction lumber, and watershed protection.

843. MENEZES, A. I. DE Flóra da Bahia. São Paulo, 1949. 265 p. (Brasiliana Série 5, v. 264) 457.2 M52

Listings by common and botanical names.

844. UNE MISSION biologique Belge au Brésil. Brussels, Imprimerie Medicale et Scientifique, 1929. 2 v. Ref. Illus. Maps. 457.2 M32

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845. MYERS, J. G. Observations on a journey from the mouth of the Amazon to Mt. Roraima, and down the cattle-trail to Georgetown. Agr. J. of Brit. Guiana 5:86-100. June 1934. 9.6 B774

Includes notes on forest vegetation, and a description of lumbering operations around Fordlandia, Tapajoz River.

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A comprehensive monograph with particular reference to the place of eucalyptus in the forest economy of Brazil. Statistical tables accompany the text. Pt. 1 deals with natural aspects and silviculture; Pt. 2 with wood utilization, products, and technology.

848. NAVEZ, A. La forêt équatoriale brésilienne. Soc. Roy. de Bot. de Belg. 57:7-17. Illus. 1924. 451 B41B

849. NEIVA, A. Localizando o "pau-brasil". Chacaras e Quintais 79:417-419. Map. Apr. 15, 1949. 9.2 C34

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850. NORONHA, H. O nordeste brasileiro. Primeira Reunião Sul-Amer. de Bot., An. 1:227-237. Map. 1939. 451 R31

851. OBSERVAÇÕES geraes e contribuições ao estudo da flora e phytophysionomia do Brasil. São Paulo, Secretaria da Agricultura, Industria e Commercio, 1926-42. 5 v. Illus. 457.2 Sa6

852. OLIVEIRA, A. P., and LIMA, D. A. Serra Negra. Pernambuco (State) Sec. da Agr., Indus. e Com. B. 15:388-397. Illus. July/Dec. 1948. 9.2 P423

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853. OLIVEIRA, B. DE As regiões de ocorrência normal da Araucária. An. Bras. de Econ. Florestal 1:185-199. Ref. 1948. 99.83 An8

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855. PAULA, R. D. DE G. Sugestões para a exploração racional do pinheiro do Paraná; madeira, pasta mecânica, celulose, plástico, substituto de goma laca, alcatrão e carvão de nó. Rev. de Quím. Indus. 18(212):20-23. Dec. 1949. 385 R324

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856. PEREIRA, H. Pequena contribuição para um diccionario das plantas uteis do Estado de S. Paulo (indigenas e aclimadas). São Paulo, Typographia Brasil de Rothschild, 1929. 779 p. Illus. 457.2 P41P

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English summary. Brazilian timbers used for railway ties.

858. PEREIRA, J. A., and MAINIERI, C. Madeiras do Brasil; sua caracterização e índices qualificativos físicos e mecânicos. An. Bras. de Econ. Florestal 2:283-351. Illus. 1949. 99.83 An8

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859. PEREIRA, J. A. Madeiras tropicais do Brasil para o mercado mundial. An. Bras. de Econ. Florestal 1:108-112. 1948. 99.83 An8

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860. PEREIRA, J. A., and MAINIERI, C. Nomenclatura das madeiras nacionais. São Paulo (State) Inst. de Pesquisas Tecnol. B. 31:29-56. Ref. June 1945. 99.79 Sa6

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862. PINHEIRO, E. C. As florestas e as essencias florestaes do Estado do Pará. Rio de Janeiro, Ministerio da Agricultura, Industria e Commercio, 1930. 63 p. 99.24 P65
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863. PODHORSKY, I. Neue skilholzarten aus Brasilien. Forstwissenschaft. Centbl. 55:144-146. Feb. 15, 1933. 99.8 F775
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864. O QUEBRACHO no Brasil. An. Bras. de Econ. Florestal 2:80. 1949. 99.83 An8
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867. RANCOURT, E. DE Les bois du Brésil. Rev. Internat. des Prod. Colon. 24:154-155. Aug./Sept. 1949. 286.8 R326
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869. RECORD, S. J. Principal local woods used in Pará, Brazil. Trop. Woods 22:12-13. June 1930. 99.08 Y1Tr
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873. SAMPAIO, A. J. DE Phytogeographia do Brasil. Rio de Janeiro Mus. Nac. B. 6:271-299. Ref. Map. Dec. 1930. 516 R47Bb
 874. SAMPAIO, A. J. DE Phytogeographia do Brasil. Ed. 2. São Paulo, 1938. 334 p. Ref. Illus. (Brasiliana Série 5, v. 35). 457.2 Sa4P
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876. SAO PAULO BRAZIL. INSTITUTO DE BOTANICA. A flora do Distrito de Ibiti; (ex-Monte Alegre), município de Amparo, by M. Kuhlmann and E. Kühn. São Paulo, 1947, pub. 1948. 221 p. Ref. Illus. (Publicação da Série "B") 457.2 Sa63

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881. *SOBRINHO, V. Estudos e observações sobre as mattas de Pernambuco. Fronteiras 23, 40 p. Feb. 1937.

882. SOBRINHO, V. Introdução à silvicultura do Nordeste. Pernambuco, Brazil. Inst. de Pesq. Agron. Arq. 2:127-219. Illus. 1939. 9.2 R24A

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884. SOBRINHO, V. As regiões naturais de Pernambuco. Pernambuco [State] Inst. de Pesquisas Agron. Arq. 3:25-33. Illus. Maps. 1941. 9.2 R24A

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886. *SOUZA, P. F. DE Madeiras de construção e acondicionamento. Bras. Madeireiro 3(29):7-16. Ref. 1947.

Brazilian timbers for construction and box-making.

887. STANLEY, P. C. Vernacular names of trees of the Tapajoz River, Brazil. Trop. Woods 29:6-13. Mar. 1932. 99.08 Y1Tr

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888. STELLFELD, C. Fitogeografia geral do Estado do Paraná. Mus. Paranaense [Curitiba] Arq. 7:309-349. Ref. Illus. Maps. Dec. 1949. 516 C92

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889. STEVENS, A. W. Exploring the valley of the Amazon in a hydroplane. *Natl. Geog. Mag.* 49:353-420. Illus. Apr.1926. 470 N213

890. TEIXEIRA DA FONSECA, E. T. Indicador de madeiras e plantas uteis do Brasil. Rio de Janeiro, Villas-Boas & C., 1922. 343 p. 457.2 T23

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891. VALVERDE, O. Excursão a região colonial antiga do Rio Grande do Sul. *Rev. Bras. de Geog.* 10:477-534. Ref. Illus. Oct./Dec. 1948. 278.8 R32

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893. VEIGA, A. DE A. Pinheiro brasileiro, Araucaria angustifolia. *Rev. de Agr.* [Piracicaba] 24:309-318. Sept./Oct.1949. 9.2 R324

894. VEIGA, A. DE A. Os primeiros estudos sobre o cedro. [Cedrela]. *Rev. de Agr.* [Piracicaba] 21:459-463. Nov./Dec.1946. 9.2 R324

895. VELHO, R. Algumas vegetais taniferos. *Pernambuco Sec. de Agr. Indus. e Com.* B. 15:429-434. July/Dec.1948. 9.2 P423

896. VELOSO, H. P. As comunidades e as estações botânicas de Teresópolis, Estado do Rio de Janeiro. Brazil. *Mus. Nac. B.* Nov. Sér., Bot. 3,95 p. Nov.10,1945. 516 R47Bb

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921. WILSON, C. M. Middle America. New York, Norton, 1944. 317 p. Illus. 280.14 W69

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922. BRITISH HONDURAS. FOREST DEPT. Annual report, 1923/24 - 1948. Belize, 1924-49? 99.9 B776

923. BRITISH HONDURAS. SURVEY DEPT. Atlas of British Honduras. Belize, 1939. 18 p. Maps. 227 B775

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924. BRITISH Honduras; a general description with notes on the agriculture and minor industries, and woods and other forest products of the Colony. London, West India Comt., n.d. 47 p. Illus. Map 31.6 B77

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928. CHARTER, C. F. A reconnaissance survey of the soils of British Honduras, with special reference to their utilization in agriculture. Port of Spain, Trinidad, 1941. 34 p. Ref. Illus. Maps. 56.23 C38

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931. FORESTRY in British Honduras; a statement prepared for the British Empire Forestry Conference, London, July 1920. London, 1920. 6 p. 99.23 B77

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937. KINLOCH, J. B. Mapping vegetational types in British Honduras from aerial photographs. Carib. Forester 1(2):1-4. Jan. 1940. 1.9622 T2C23

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938. LAMB, A. F. A. The influence of modern trends in timber utilization on silvicultural policy in British Honduras. Belize, Brit. Honduras Forest Dept., 1947. 4 p. Map. FS

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939. LAMB, A. F. A. Notes on forty-two secondary hardwood timbers of British Honduras. Brit. Honduras Forestry Dept. B. 1, 123 p. Ref. Map. Apr. 1946. 99.9 B776

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Based on a report by C. E. Gidden.

Contents: Forest area; Mahogany resources; Exploitation of mahogany; Exploitation of other woods; Commercial species; Forest regulations and tariffs; Production of mahogany logs; Production of other timber; Labor and wages; Lumber industry; Domestic consumption; Foreign trade.

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945. MAY, E. S. Central American mahogany. Timber Trades J. 99:551-554. Feb. 20, 1926. 99.81 T48

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955. OLIPHANT, J. N. Forestry in British Honduras; a statement prepared for the British Empire Forestry Conference, Australia and New Zealand, 1928. Belize, Brit. Honduras Forest Dept., 1928. 21 p. Map. FS

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957. THE PROPERTIES of British Honduras pitch pine (slash pine) -- *Pinus caribaea* Mor. Gt. Brit. Dept. of Sci. & Indus. Res., Forest Prod. Res. Rec. 20,9 p. Ref. Illus. Map. 1937. (Timber Series 6.) 99.9 G796F

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Spanish summary.

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Contents: Geographical background; The forests; Exploitation of the forests; Potential wood requirements and uses; Some essential steps in a forestry program; Appendix, including a list of trees, some wood properties, wood prices, and trade statistics.

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1001. STANDLEY, P. C. A brief survey of the vegetation of Costa Rica. In Plants and Plant Science in Latin America, p.64-67. Waltham, Mass., Chron. Bot., 1945. 453 V58

1002. STANDLEY, P. C. Flora of Costa Rica. Chicago Nat. Hist. Mus., Bot. Ser. 18,1616 p. 1937-38. 500 C432B

The introduction describes forest vegetation and plant geography. Spanish translation, Flora de Costa Rica, in Costa Rica Mus. Nac., Ser. Bot. 1, 4 pts. 1937-40. 456.2 St2FL

1003. TENNY, F. A. Costa Rican balsa [*Ochroma lagopus*] Uni-fruitco 4(1):3-5. Illus. Aug.1928. Tulane U. Libr.

Plantation results. Similar information in Trop. Woods 15:34-37. Sept.1928. 99.08 Y1Tr

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1004. VOGT, W. The population of Costa Rica and its natural resources. Washington, Pan Amer. Union, 1946. 25 p. 280.15 V86

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Annotated list of latex-yielding trees and shrubs of Guatemala.

1006. FOREST resources, lumber industry, and trade in Guatemala. U. S. Off. of Internatl. Trade, Indus. Ref. Serv. Pt.6, Forest Prod. 5 (13), 4 p. July 1947. 157.54 In236

Based on a report by N. C. Stines. Contents: Forest areas; Commercial species; Ownership; Forest regulations; Commercial development; Logging and Transportation; Lumber production; Regulations affecting the lumber industry; Trade, etc.

Previous treatment with title Lumber industry and trade of Guatemala, issued as U. S. Bur. of Foreign & Dom. Com. Indus. Ref. Serv. Pt. 4, Forest Prod. 30,4 p. June 1941. 157.54 In23

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1009. KARLING, J. S. Couma guatemalensis as a possible future source of chicle. Amer. J. Bot. 22:580-593. Ref. Illus. June 1935. 450 Am36

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Growth and development of plantations of *Swietenia*, *Cybistax*, and *Cedrela*.

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1015. NUMERO extraordinario dedicado al Servicio Forestal. Rev. Agr. [Guatemala] 2(21-26):265-454. July/Dec.1946. 8 G934

Some timber species of our forests, p.298-303. Numerous photographs of trees and land conditions, and short articles on fire control, soil erosion, forest nurseries, and trade.

1016. PACHECO HERRARTE, M. Agriculture in Guatemala. Washington, Pan Amer. Union, 1944. 37 p. 31.6 P11

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1017. POPENOE, W. Guatemala. In Naturalist's guide to the Americas, p.596-600. Baltimore, Williams & Wilkins, 1926. 409 Ec7

1018. POPENOE, W. Plant resources of Guatemala. In Plants and Plant Science in Latin America, p.278-281. Ref. Waltham, Mass, Chron. Bot., 1945. 453 V58

Commercial tree species, p.280.

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1019. RECORD, S. J. Trees of Gualán, Guatemala. Trop. Woods 11:10-18. Sept.1927. 99.08 Y1Tr

Taxonomic descriptions preceded by a general discussion of topography in the Motagua Valley; prominent tree species and local utilization of timber.

1020. RECORD, S. J. Trees of Santa Inés, Guatemala. Trop. Woods 14:25-29. June 1925. 99.08 Y1Tr

Notes on the area's general appearance and notes on wood utilization, in addition to a list of common and scientific names of species.

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1023. ROQUE, J. M. Flora medicoguatemalteca, 1. Guatemala City, 1941. 187 p. Illus. 456.2 R68

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1025. SAUNDERS, L. F. Mahogany production in Guatemala. Timberman 22(5):48,48B. Mar.1921. 99.81 T484

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Oaks of Guatemala and Central America.

1027. SIERRA, H. M. Una madera de provenir -- el conacaste [Enterolobium cyclocarpum]. Rev. Agr. [Guatemala] (Ser. 2) 2:354-356. July/Dec. 1946. 8 G934

1028. STANDLEY, P. C., and STEYERMARK, J. A. Flora of Guatemala. Chicago Nat. Hist. Mus. Fieldiana (Bot. Ser.) 24(4-6), 3 v. April, Aug. 27, 1946; Dec. 27, 1949. 500 C432E

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1030. STANDLEY, P. C. Los pinos de Guatemala. Pan Amer. Union B. 82:96-98. Illus. Feb. 1948. 150.9 M76

Utilization.

1031. STANDLEY, P. C., and STEYERMARK, J. A. The vegetation of Guatemala. In Plants and Plant Science in Latin America, p. 275-278. Ref. Waltham, Mass., Chron. Bot., 1945. 450 V58

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1032. STEYERMARK, J. A. Flora of Guatemala. Ecology 31:368-372. Ref. Map. July 1950. 410 Ec7

1033. TERCERO, J. The chicle industry [Guatemala]. Pan Amer. Union B. 61:891-894. Sept. 1927. 150.9 M76

HONDURAS

1034. BURGOS, J. Forest wealth of Honduras. Pan Amer. Union B. 79:98-99. Illus. Feb. 1945. 150.9 M76

General comments on forest conditions.

1035. CARR, A. F., JR. Outline for a classification of animal habitats in Honduras. Amer. Mus. Nat. Hist. B. 94:563-594. Ref. Illus. Mar. 27, 1950. 500 N483B

Forest types figure largely in this vegetation classification of animal habitats.

1036. COLEMAN, F. B. Forest resources, lumber industry, and trade of Honduras. U. S. Off. Internat'l. Trade, World Trade Commodity Pt. 6. Lumber & Allied Prod. 5, (25), 7 p. Oct. 1947. 157.54 In236

Based on report by A. K. Ludy, Jr.

Contents: Forest areas; Species of wood; Current exploitation; Land ownership and logging rights; Forestry practices; Sawmill industry; Lumber consumption; Foreign trade; Outlook for the industry; Decree No. 62, Law of valuable woods and useful trees.

1037. DURLAND, W. D. The pine forests of Honduras. Trop. Woods 10:8-9. June 1927. 99.08 Y1Tr

1037a. HARPER, J. Lumber heaven: three men think they've found it. South. Lumber J. 51(7):20, 22, 96. July 1947. 99.81 So8

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1038. MAYANS, J. J. Industrias forestales para Honduras; el tano. Honduras Agr. 1(8):16. June 1, 1945. 8 H753

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1039. MORALES Y SANCHEZ, A. Reseña forestal hondureña. Rev. de Agr. [Costa Rica] 14:563, 565, 567, 569-570; 15:233-235, 237;

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283,285-286;369,371; 411-412. Dec.1942,May-June,Aug.-Sept.1943.
8 Es1

A forest sketch of Honduras. Discusses commercial tree species, and the work of the Honduras Botanical Garden with respect to forest trees. Plants producing fruit, perfume, dyes, medicines, poisons, oils, gums, and resins also reviewed.

1040. POPENOE, W. El problema forestal de Honduras. *Honduras Agr.* 2(18):11-12. May 1946. 8 H753

1041. RECORD, S. J. Trees of Honduras. *Trop. Woods* 10:10-47. June 1927. 99.08 Y1Tr

Includes list of common and scientific names.

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1042. SHANK, P. J. Forest resources of Honduras. *Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources Proc.* 1948:559-563. 150 In82 No.4

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1043. STANDLEY, P. C. Flora of the Lancetilla Valley, Honduras. *Chicago Nat. Hist. Mus., Bot. Ser.* 10,418 p. Illus. Jan.15,1931. 500 C432B

1044. STANDLEY, P. C. The woody plants of Siguatepeque, Honduras. *Arnold Arboretum J.* 11:15-46. Jan.1930. 451 Ar6J

Includes a narrative account of vegetation observed during an automobile trip to Tegucigalpa.

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Timber wealth of Nicaragua, p.62-64.

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1065. ZELAYA, J. M. Agriculture in Nicaragua. Washington, Pan Amer. Union, 1945. 43 p. Ref. (American Agriculture Series.)
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 Notes on the tree and the wood of 7 commercial timbers.
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1122. ELCHIBEGOFF, I. M. The forests, lumber industry, and timber trade of Chile. J. Forestry 39:357-361. Apr.1941. 99.8 F768

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Thesis - Universidad de Chile.

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1134. GRIFFITHS, T. E. Timber resources of southern Chile. Timberman 24(5):45-46. Illus. Mar. 1923. 99.81 T484
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1136. HAIG, I. T., and others. Forest resources of Chile, as a basis for industrial expansion. Washington, U. S. Forest Serv., 1946. 256 p. Illus. Map. 1.962 A2F7628
 L. V. Teesdale, P. A. Briegleb, B. H. Payne, and M. H. Haertel, joint authors.
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1144. HUERTA MUÑOS, J. M. Caja de forestación. Santiago, Unitario, 1942. 107 p. Ref. 99.65 H87

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1146. INSTITUTO DE ECONOMIA AGRÍCOLA. Exportacion de madera de laurel. Industria 66:727-728. Nov. 1949. 297.9 So1

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1149. KNOCHE, W. Über die nördliche waldgrenze in Chile. Berlin, Z. f. Gesell. f. Erdk. 1/2:41-45. 1923. 474 B45

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1150. LESCHNER. Über die forstverhältnisse in Chile. Z. f. Weltforstwirt. 6:319-325. Feb. 1939. 99.8 Z35

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1153. MAIGE A., J., and BERNATH, E. L. Viveros y plantaciones forestales de la Caja de Colonización Agrícola. In Primera asamblea forestal nacional, p.259-267. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

Forest nurseries and plantations of the Office of Agricultural Colonization. Lists nurseries in operation, forest tree species being raised in each, and gives the estimated production capacity of each nursery.

1154. MALDONADO, E. Contribución al estudio de la industria maderera y bosques chilenos. Santiago, Le Ilustración, 1925. 63 p. Illus. Libr. Cong.

Contents: General information on the forests; Actual state of forest exploitation; Description of the principal forest tree species.

1155. MALDONADO B., E. Tratado de arboricultura forestal y de adorno. Santiago, Artes y Letras, 1926. 2 v. Illus. 99.45 M29

Chile

A manual of forest and ornamental tree culture. Gives descriptions, ranges and uses of trees native to and introduced into Chile. Introductory chapters discuss forest conditions in general and the lumber industry.

1156. MARTIN, C. Landeskunde von Chile. Ed. 2. Hamburg, Friederichsen, 1923. 786 p. Ref. Illus. 125 M361

A study of the land of Chile. Flora, including forest vegetation, p.223-283.

1157. MATTHEI, A. Klimaprovinzen und wälder in Chile. Internat'l. Cong. of Forest Res. Proc. 7:443-446. 1929. 99.9 In82V Climate zones and forests in Chile.

1158. MATTHEI, A. Landwirtschaft in Chile. Leipzig, Velhagen & Klasing, 1929. 95 p. Ref. Illus. Map. 31.9 M43

Agriculture in Chile. Includes illustrations of forest vegetation, and a section on forest utilization, p.59-60.

1159. MEYER RUSCA, W. El problema de la invasion del bosque en el Sur Chile. In Primera asamblea forestal nacional, p.138-144. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

The problem of clearing for cultivation in the forest lands of south Chile.

1160. MILLER, D. Chiefly on Chilean forests. New Zealand J. Forestry 4:161-172. Maps. 1938. 99.8 C162

Also issued as Cawthron Inst. of Sci. Res. P. 33,13 p. 1939. 23 C31P

1161. MUÑOZ PIZARRO, C., and PISANO VALDES, E. Estudio de la vegetación y flora de los parques nacionales de Fray Jorge y Talinay. Agr. Tec. [Chile] 7:71-190. Dec.1947. Ref. 464.9 C432B

English summary in Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948:491-496. Ref. 150 In82 No.4

Includes an ecological analysis of forests.

1162. NAZARIT, C. E. La algarrobia. In Primera asamblea forestal nacional, p.115-120. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

Caesalpinia brevifolia as a source of tannin.

1163. NEIRA S., B. Reforestación con pinos o con especies chilenas. Unión Agr. del Sur. 2(10):21-22. Mar.1944. 9.3 Un3

The question of using exotic or indigenous species in Chile's reforestation projects. Further on the subject by A. Santa Cruz, p.19-21

1164. NOTES on Chilean timbers. Timber Devlpmt. Assoc. Timber Inform. Ref. 29,3 p. 1946. 99.9 T48Tr

Timbers suitable for export are listed by common name, and their uses given.

1165. ORTIZ GARMENDIA, J. Flora chilena: el chañar, valiosa especie forestal resistente a los suelos salinos. Campesino [Santiago] 80(2):19-20. Feb.1948. 9.3 So12

Gourliea spinosa, a small tree used for fuelwood, occurring in northern Chile.

1166. ORTIZ GARMENDIA, J. Flora chilena: servicios que nos presta el sauce amargo chileno. Campesino [Santiago] 80(6):35-36. June 1948. 9.3 So12

Further information on varieties, 80(7):21. July 1948.

Salix humboldtiana, particularly in Chilean reforestation.

1167. ORTIZ GARMENDIA, J. Flora espontanea, ganadería y forestación en el Norte Chico. Campesino [Santiago] 77:287-289. May 1945. 9.3 So12

Interrelationships of vegetation, livestock grazing, and forest regeneration in Norte Chico.

Chile

1168. ORTIZ GARMENDIA, J. El quillay [Quillaja saponaria], valioso arbol industrial, en peligro de extinción. Campesino [Santiago] 79(3):29-30. Mar.1947. 9.3 So12

A tree valuable in various industries, chiefly for its bark which contains saponin and tannin. The author discusses legislation to prevent the extinction of the species in Chile.

1169. ORTIZ GARMENDIA, J. La reforestación de la Zona Norte [Chile]. Agr. del Norte 29, i. e. 30:37-39. Jan./Feb.1946. 9.3 So14

Reforestation plan for the north of Chile.

1170. PASTOR, V. Corrección de torrentes y repoblación de suelos erosionados. In Primera asamblea forestal nacional, p.43-45. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

1171. PETERS, K. Estudio experimental sobre selvicultura en Chile. Santiago, Nascimento, 1938. 50 p. Illus. 99.65 P44

1172. PISANO V., E. Observaciones sobre la renovación del bosque de laurel y ulmo en la región del Lago Llanquihue. Agr. Tec. [Chile] 10:22-31. June 1950. 464.9 C432B

English summary. A silvicultural analysis of regeneration in a forest in which Laurelia aromatica and Eucryphia cordifolia are dominants.

1173. PRIMERA asamblea forestal nacional. Santiago, Sociedad de Amigos del Arbol, 1943. 310 p. 99.9 As1

Discusses the forest problems and activities of Chile, and gives resolutions concerning action to be taken.

1174. THE PULP woods of Chile. Pan Amer. Mag. 32:246-247. Apr.1921. 110 P19

1175. RAMIREZ, R. Plantaciones forestales en la Provincia de Concepción. Agrario 10(378):3. Apr.15,1946. 9.3 Ag85

Also in Unión Agr. del Sur. 3(17):11. May 1945. 9.3 Un3

Forest plantations in the Province of Concepción, Chile.

1176. RECART, H. Algunos aspectos de la explotación racional del bosque virgen chileno. Primer Cong. Sudamer. de Ingen. 4: 355-365. 1939. Pan Amer. Union Libr.

Exploitation of Chile's virgin forests. Includes statistics regarding the forest resource and the lumber industry.

1177. RECART, H. Chile -- an asset to the State of Washington. Wash. U. Forest Club Q. 1(2):13-17. Illus. June 1922. 99.9 W275Q

Describes Chile's forests and lumber industry. Suggests reciprocal markets between Chile and Washington, in hardwoods and softwoods.

1178. RECART, H. La Corporación de Fomento a la Producción en su cooperación en actividades forestales y madereras del país. In Primera asamblea forestal nacional, p.249-250. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

1179. RECART, H. Estudio sobre reservas forestales y parques nacionales. In Primera asamblea forestal nacional, p.214-221. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

Study of forest reserves and national parks in Chile. Discusses the resources and the use to which timber is put. Recommends policy for expansion.

1180. RECART, H. Preservación de maderas. Scientia 14:83-89. Mar./Apr.1947. 475 Sci25

Discusses wood preservation problems related to Chilean timbers.

1181. ROIVAINEN, H. Observaciones sobre la vegetación en los alrededores de Termas de Chillán, Prov. de Ñuble, Chile. Suomalainen eläin-ja kasvitieteellinen seura Vanamo, Helsingfors.

Chile

Kasvitieteelsiä Julkaisuja ... An. Bot. 5(4),30 p. Ref. Illus. 1934.
451 Su7

Forest vegetation in the Province of Nuble, Chile.

1182. RUBENS, E. Adelantos de la industria maderera y forestal. Scientia 14(11/12):338-343. Nov./Dec.1947. Ref. 475 Sci25

Recent technological developments in timber as they relate to the Chilean situation.

1183. RUIZ, C. Nuestro patrimonio forestal. Agrario 15(414):15-16,36. July 1950. 9.3 Ag85

Also in Agr. Austral 18:442-444. Oct.1950. 9.3 Ag842

Forests and forest industries of Chile. Includes a table of wood production by species from the main wood-producing area of the country.

1184. SKOTTSBERG, C. Einige bemerkungen über die vegetationsverhältnisse. Göteborgs Kungl. Vetenskaps -och Vitterhets Samhälles Handl. 28(3):23-29. Illus. 1924. 502 G71H

Plant relationships in West Patagonia (Chile), including trees.

1185. SLIFKO, C. W. Chile's plywood and veneer industry. U. S. Bur. Foreign & Dom. Com. Indus. Ref. Serv., Pt. 6, Forest Proc. 3 (2),2 p. July 1945. 157.54 In236

Also in Veneers & Plywood 39(12):26,28-29. Dec.1945. 99.82 V55

1186. SOZA W., H. El problema forestal en Chile. Chile Min. de Agr. B. 5(16):43-50. Apr./June 1938. 9.3 C433

1187. U. S. TARIFF COMMISSION. Agricultural, pastoral, and forest industries in Chile. Washington, 1945. 47 p. 173 T17Ag

Forest products and industries, p.7-8,40-42.

1188. VALENZUELA, H. Forests and forestry in Chile. Mich. Forester 26/27:26-28. 1946. 99.9 M588

1189. VECHSLER, M. J. Forestry Council established in Chile. Com. Intel. J. 69:250-252. Sept.25,1943. 286.8 C16

Also comments on the general lumbering situation in the country.

1190. VERGARA C., C. Enfermedades del lingue (*Persea lingue* Nees). In Primera asamblea forestal nacional, p.271-276. Santiago, Sociedad de Amigos del Arbol, 1943. 99.9 As1

Includes 1934-41 production statistics for lumber of a species valuable in woodworking and for tanbark.

1191. VIDAL, J. J. La silvicultura en Chile. Agr. Austral. 16:193-194. Apr.1949. 9.3 Ag842

Chiefly about forest plantations to provide industrial wood.

COLOMBIA

1192. ANCIZAR, E., and RANGHEL GALINDO, A. Proyecto de recomendación por el cual se establece el Fondo de Fomento Forestal. Cong. Forest. de Colombia 1:105-110. 1945. 99.9 C7697

Proposed law to establish a fund to promote forest credit.

1193. THE BASIS of a development program for Colombia. Report of a mission headed by Lauchlin Currie and sponsored by the International Bank for Reconstruction and Development, in collaboration with the government of Colombia. Washington, D. C., Internatl. Bank for Reconstr. & Devlpmt., 1950. 642 p. 280.165 M69B

General economic information, including land utilization, industries and transportation. Lumber and forest products are discussed p.416-417.

1194. BATES, M. Climate and vegetation in the Villavicencio region of eastern Colombia. Geog. Rev. 38:555-574. Oct.1948. Map. 500 Am35G

Colombia

Describes grassland, savanna and rain forest vegetation.

1195. BELL, P. L. Colombia; a commercial and industrial handbook. U. S. Bur. Foreign & Dom. Com., Spec. Agents Ser. 206, 423 p. Maps. 1921. 157.71 Sp3

Topographic features, p.25-29; forest products, p.76-95.

1196. BLOCH, H. Parcelación colonización y defensa forestal. Rev. Nac. de Agr. [Bogotá] 521/522:12-14. Sept./Oct. 1948. 9.4 R32

Discusses the incompatibility of forest colonization with good land management and suggests a positive program to follow after parceling Colombian forest properties.

1197. BRAZIL wood [*Haematoxylon brasiletto*]. Kew Roy. Bot. Gard., Misc. Inform. B. 2:79-80. 1920. 451 K51B

The Brazilwood situation in Colombia and the decline in trade of this dyewood.

1198. CALDERON BUENDIA, C. Productos que podemos exportar del Amazonas. Vida Rur. [Bogotá] 4(47):28. June 1943. 9.4 V66

Lists exportable forest products of the remote Amazonas district of Colombia, and names commercial timber species.

1199. CASTRO R., J. Algunos conceptos de organización forestal para el Atlántico. Cong. Forest. de Colombia 1:375-378. 1945. 99.9 C7697

1200. CAVE, M. S. Forest legislation in Colombia. Washington, U. S. Off. of Inter-Amer. Aff., 1945. 38 p. Ref. Pan Amer. Union Libr.

General introduction deals with the forestry situation in Colombia. A glossary of tree names is appended.

1201. CLUB ROTARIO DE BOGOTÁ. Conservación y repoblación forestal. Cong. Forest. de Colombia 1:111-123. 1945. 99.9 C7697

A plan for forest development in Colombia, centering around establishment of an Instituto de Fomento Forestal.

1202. CLUB ROTARIO DE BOGOTÁ. COMITÉ FORESTAL. Instituto de Fomento Forestal. Vida Rur. 7(76):27-30. Nov. 1945. 9.4 V66

Includes text of a proposed bill for forest planting and conservation in Colombia.

1203. COLOMBIA. DEPT. DE CONTRALORIA. Geografía económica de Colombia. Bogota, 1943-47. 7 v. Pan Amer. Union Libr.

Regional analyses of States, some of which contain chapters on forestry. 1, Antioquia, 1935; 2, Atlántico, 1936; 3, Boyacá, 1936; 4, Caldas, 1937; 6, Choco, 1943; 7, Tolima, 1946; 8, Santander, 1947. The last two are in U. S. Dept. of Agriculture Library, 278.165 C71

1204. COLOMBIA. DEPT. DE TIERRAS. Problemas forestales de Colombia. Bogotá, Kelly, 1945. 115 p. 99.24 C71

1205. COLOMBIA. MINISTERIO DE LA ECONOMIA NACIONAL. Informe ... al Congreso de 1945. Bogotá, Imprenta Nac., 1945. 314 p. 280.9 C712

Reports on the work of the Sección de Bosques, Dept. de Tierras, p.35-68, covering a 5-year period. Other annual reports are also available, under titles which may vary. Continued by Memoria (280.9 C712M).

1206. COLOMBIAN COMMISSION OF INTER-AMERICAN DEVELOPMENT. Report presented to the Conference of Commissions of Inter-American Development ... on an outline of the present industrial situation in Colombia. Washington, Inter-Amer. Devlpmt. Com., 1944. 20 p. Pan Amer. Union Libr.

Lumbering, p.9-10; mangrove exploitation, p.15.

1207. CONDE GALOFRE, G. Colombian hardwoods. New Orleans Port Rec. 5(7):21-22. Mar. 1947. 286.8 N472

Colombia

Lists hardwoods other than mahogany and balsa which found their way into American markets during World War II.

1208. CORTES, S. *Dendrologia y gilología de Colombia*. Rev. de la Acad. Colombiana de Cien. Exact., Fís. y Nat. 2:60-66. Jan./Mar. 1938. 516 Ac1

Chiefly botanical, but cites local names and briefly notes uses of various Colombian trees.

1209. CRIST, R. E. A geographical traverse across the Eastern and Central Cordilleras of Colombia. *Pan Amer. Union B.* 76:132-144. Illus. Mar. 1942. 150.9 M76

Illustrations accompany the author's remarks on forest destruction and shifting agriculture along the route described.

1210. CRUZ RIASCOS, L. C. *Colonización del Amazonas [Colombia]*. Agr. Trop. [Bogotá] 3(5):45-51. May 1947. 26 Ag8

1211. CUATRECASAS, J. *Observaciones geobotánicas en Colombia*. Madrid, Mus. Nac. de Cien. Nat. Trab., Ser. Bot. 27, 144 p. Illus Dec. 31, 1934. 451 M26

A detailed ecological analysis, including descriptions of woody vegetation in highland areas of Colombia.

1212. CUATRECASAS, J. Vistazo a la vegetación natural del bajo Calima. Acad. Colombiana de Cien. Exact., Fís. y Nat. Rev. 7:306-312. Illus. July 1947. 516 Ac1

Describes forests adjacent to the river, and mangrove swamps. Economic plants, p.311-312.

1213. CUBILLOS, L. A. *Memoria sobre el problema de aguas y bosques ... de los municipios de Armenia y Montenegro, Departamento de Caldas*. Cong. Forest. de Colombia 1:90-101. 1945. 99.9 C7697

1214. CURRAN, H. M. *The Lands of Loba, Colombia*. Trop. Woods 19:11-38. Sept. 1929. 99.08 Y1Tr

A general description of lands and forests in an area on the Caribbean side of Colombia, accessible chiefly by water. Principal commercial timber species are given, with some attempt to estimate average stands per acre, and to suggest possible ways to exploit and utilize these species. A list of species and a checklist of common and scientific names are appended.

1215. DANIEL, HERMANO *Algunas especies maderables de Colombia*. Carib. Forester 5(3):119-123. Apr. 1944. 1.9622 T2C23

Discusses species suitable for carpentry and construction.

1216. DANIEL, HERMANO *Divagaciones sobre la flora de Colombia*. Carib. Forester 8:145-160. Apr. 1947. 1.9622 T2C23

English translation, p.153-160. Also discusses *Hymenaea courbaril*, *Jatropha*, and their products.

1217. DÍAZ GALINDO, F. M. *Informe ... para estudiar las montañas de occidente, en relación con la posibilidad de la repoblación forestal a base de madera de comino*. Colombia Dept. de Agr. y Ganad. B. de Agr. 4:377-406. Illus. June/Sept. 1933. 9.4 In22

Account of a journey made to study possibilities of developing cabinet wood resources, especially *Aniba perutilis*.

1218. DUBEAU, N. P. *Peligroso y grande; mahogany hunting in the Colombian Choco ... Monsanto Mag.* 28:18-22. Feb. 1949.

309.8 M75

Logging experiences in a wilderness area.

1219. DUGAND, A. *Algunas leguminosas de la Amazonia y Orinoquia colombianas*. Caldasia 5(21):65-76. Mar. 20, 1948. 516 C12

Clarification of geographic occurrence of certain species, many of which are timber trees.

1220. DUGAND, A. *Arboles y arbustos notables o poco conocidos*

Colombia

- del Departamento del Atlántico. Colombia. Dept. Atlántico, Dept. de Agr., B. de Agr. y Ganad. 1(2):21-32. Apr. 1935. 9.4 At6
 1221. DUGAND, A. El carroto o cumula (*Aspidosperma dugandii* Stanl.). Caldasia 2:367-369. Jan. 6, 1944. 516 C12
 Discusses distribution, common names and wood uses in Colombia.
1222. *DUGAND, A. Ensayo sobre las formaciones ecológicas vegetales en el Departamento del Atlántico. Apuntes sobre la Hist. del Dept. Atlántico [Baranquilla] 1933:21-29.
 Trees, p.30-32.
1223. DUGAND, A. Estudios geobotánicos colombianos; descripción de una sinecia típica en la subxerofitía del litoral caribe. Acad. Colombiana de Cien. Exactas, Fís. y Nat., Rev. 4:135-141. Jan./July 1941. 516 Ac1
 Also in Amer. Sci. Cong. Proc. 8(3):207-217. 1942. 330.9 Am3008
 Ecological analysis of plant associations in the lower valley of Rio Magdalena.
1224. DUGAND, A. On the vegetation and plant resources of Colombia. In Plants and Plant Science in Latin America, p.289-293.
 Ref. Waltham, Mass., Chron. Bot., 1945. 453 V58
 Also in Chron. Bot. 7:71-75. Mar. 1942. 450 C46
 Timbers, p.292.
1225. DUGAND, A. The transition forests of Atlántico, Colombia. Trop. Woods 40:1-14. Dec. 1934. 99.08 Y1Tr
 Describes lowland and upland forests. A checklist of scientific and common names of trees is appended.
1226. *DUQUE JARAMILLO, J. M. Agrupaciones geográficas y ecológicas de algunas especies arbóreas y más industriales de Colombia. Acad. Colombiana de Cien. Exact., Fís. y Nat., Rev. 7?:344-347. Dec. 1947. 516 Ac1
 Geographical and ecological grouping of certain economic tree species in Colombia.
1227. DUQUE JARAMILLO, J. M. Botánica general colombiana. Manizales, Colombia, 1943. 400 p. 457.5 D92
 A textbook of general botany which contains a classification of commercial timbers according to uses, p.174-177, a table of mechanical properties of Colombian woods, p.340-341, and a taxonomic dictionary of the industrial flora, p.349-381.
1228. DUQUE JARAMILLO, J. M. Manual de bosques y de maderas tropicales, v. 1 & 2. Manizales, Colombia, 1931. 227 p. 457.5 D92M
 V. 1 contains general articles on forestry and forest industries in Colombia and in other countries of the world. Ch. 3 concerns the need for forest legislation in Colombia; Ch. 4 compares Colombia's forest resources with that of other countries; Ch. 7 deals with vegetation zones in Colombia. V. 2 presents the forest botany of Colombia, including both native and introduced species. A list of scientific and vernacular names of trees is appended.
1229. DUQUE JARAMILLO, J. M. Meliaceas colombianas. Tierras y Aguas 3(21):27-32; (22):3-11. May-June 1940. 282.8 T44
 In addition to botanical description, gives wood properties, uses, and possibilities of planting of such genera as *Cedrela*, *Guarea*, and *Swietenia*.
1230. ESPINA, R., and GIACOMETTO, J. Trees of Sierra Nevada de Santa Marta. Trop. Woods 30:17-37. June 1932. 99.08 Y1Tr
 An introduction presents the vegetative zones in this section of Colombia, and describes sites on which collections were made. This is

*Not examined.

Colombia

followed by a list of specimens collected and a checklist of common and scientific names.

1231. EXPORTACION de maderas colombianas. Com. e Indus. [Bogotá] 2(5):3-6. Jan.31,1941. 255.5 C7192

Possibilities of developing an Argentine market for Colombia woods. Lists 65 forest products used in Argentina and discusses adaptation of Colombian timbers to these uses. Detailed accounts of properties and uses are given for 3 Colombian timbers: *Lignum vitae*, balsa, and bamboo.

1232. FERNANDEZ BERTRAND, S. Apuntes de un viaje a Colombia. Soc. Cubana de Bot. Rev. 3:130-134. Sept./Oct.1946. 451 So123

Observations of land formations and vegetation zones.

1233. GEOGRAFIA económica de Colombia. Bogota, Mes Financiero y Económico, 1948. 357 p. Internatl. Monetary Fund. Libr.

1234. GOMEZ AMOROCHO, R. Conservación de nuestros bosques. Santander (Dept.) Contraloría Dept. B. 10(40):26-31. Nov.1944. 255.5 C7152

The need for forest conservation in Santander, Colombia, particularly considering the destruction of forests for fuel and charcoal.

1235. GONZALEZ, A. Evolución de la política forestal. In Colombia. Dept. de Tierras. Problemas forestales de Colombia, p.15-20. Bogotá, Kelly, 1945. 99.24 C71

Background and work of the Sección de Bosques.

1236. GONZALEZ, A., and GARTNER, V. Evolución del problema forestal en Colombia. In Colombia. Dept. de Tierras. Problemas forestales de Colombia, p.7-14. Bogotá, Kelly, 1945. 99.24 C71

Reviews forest laws, and the general conditions of forest industries and resources.

1237. HENDRICKSON, R. Colombia's great forest resources. Amer. Lumberman 2531:75. Nov.17,1923. 99.81 Am3

An observer's opinion of the forest resource and lumber industry possibilities.

1238. JARAMILLO SIERRA, B. Valles de Colombia. Bogotá, Librería Voluntad, 1949. 239 p. Ref. 56.7 J28

Land conditions and outline for improvements in several of Colombia's river valleys.

1239. KRAMER, J. H. Forest resources and lumber industry of Colombia. U. S. Bur. Foreign & Dom. Com., Indus. Ref. Serv. Pt. 6, Forest Prod. 3, 6 p. Dec.1945. 157.54 In236

Contents: General description; Forest regions; The principal species; The lumber industry; Exports and imports; Management and development; Future possibilities.

1240. LABORES desarrolladas a partir de 1940. In Colombia. Dept de Tierras. Problemas forestales de Colombia, p.21-45. Bogotá, Kelly, 1945. 99.24 C71

Developments in forest policy and law since 1940. Discusses licensing of forest operations, the study of products development, of zones for exploitation and for reserves, and of reforestation. Further sections on protection laws (chiefly watershed protection) and law enforcement. Amount and value of all forest products exported from Colombia for 1942-44 are given on p.40.

1241. MIDKIFF, H. M. National economy of Colombia. Com. Pan Amer. 15(9/10), 72 p. Ref. Sept./Oct.1946. 280.8 C736

Forest products, p.16-17.

1242. PENNELL, F. W. Colombia. In Naturalist's guide to the Americas, p.623-636. Map. Baltimore, Williams & Wilkins, 1926. 409 Ec7

Includes description of forested regions.

Colombia

1243. PEREZ ARBELAEZ, E. Hilea magdalenesa; prospección económica del valle tropical del Río Magdalena. Bogotá, Colombia. Contraloría General, 1949. 191 p. Ref. Illus. 280.169 P41

Ch. 7, Forests, contains a table of woods and their uses, and several aerial photographs of forests along the Río Magdalena.

1244. PEREZ ARBELAEZ, E. Informe del botánico al Señor Ministro de Industrias. Rev. Indus. [Bogotá] 6:677-679. Jan./Feb.1931. 9.4 R322

An account of a scientific expedition to the Caquetá region, southwestern Colombia, describing trees and other economic plants encountered.

1245. PEREZ ARBELAEZ, E. Maderas. Arboles 2:242-244. May 1945. 99.8 Ar16

Timber resource problems: forest destruction, land laws, the mixed forests of Colombia, and future timber requirements of Colombia in terms of products.

1246. PEREZ ARBELAEZ, E. Plantas utiles de Colombia, ensayo de botánica colombiana aplicada. 537 p. Illus. Bogotá, 1947. 457.5 P41

Includes timber trees, arranged in botanical families. Appendices include a list of publications on timber, p.504-505, a list of species recommended for reforestation, p.512, and an index to vernacular names, p.521-529.

1247. PEREZ ARBELAEZ, E. Reservas naturales. Vida Rur. 6 (67):24. Feb.1945. 9.4 V66

1248. PEREZ SALAZAR, H. Forests and ranges. Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948:514-518. 150 In82 No.4

Includes coordination of forestry with hydroelectric developments in Antioquia, Colombia.

1249. POZO RODRIGUEZ, P. DEL Estudios y soluciones de algunos problemas forestales colombianos. In Colombia. Dept. de Tierras. Problemas forestales de Colombia, p.47-56. Bogotá, Kelly, 1945. 99.24 C71

Chiefly about organizing a Service of Waters and Forests, and what the functions of such a Service should be. Flood control and soil conservation problems of the Valle de Nemocon, Sabana [Río Bogotá], and Río Magdalena areas are discussed, presumably by the same author, p.57-92.

1250. POZO RODRIGUEZ, P. DEL Orientaciones para una política forestal en Colombia. Tierras y Aguas 3 i.e 4(28/29):21-53. Apr./May 1941. 282.8 T44

Further with the title Bosques in (32/36):16-34. Aug./Dec.1941.

Outlines a forest policy for Colombia, including discussion of forest destruction, various types of forest growth and their economic possibilities.

1251. PRIMER Congreso Forestal de Colombia, 1945. Bogota, Colombia. Departamento de Tierras, 1945. 415 p. 99.9 C7697

Consists of problem analysis, plan of action, development, industrial possibilities of forest products, orientation of a reforestation campaign, and legislative outline.

1252. RANGHEL GALINDO, A. Abarco [Cariniana pyriformis]: importante árbol de nuestras selvas. Colombia. Min. de la Econ. Nac., Agr. 16:1201-1202. 1944. 9.4 In22

The tree and the wood formerly known as "Colombian mahogany".

1253. RANGHEL GALINDO, A. The Colombian forests; their use and conservation. New York, Natl. Fed. of Coffee Growers of

Colombia

Colombia, 1949. 27 p. Libr. Cong.

Presented to the United Nations Conference on Conservation and Utilization of Natural Resources. Pt. 1, an ecological classification of forests; individual tree species; estimates of forest area. Pt. 2, Forest economics and policy.

1254. RANGHEL GALINDO, A. El comino crespomadera preciosa de los bosques colombianos. *Agr. Trop.* 6:25-27. Jan. 15, 1950. 26 Ag8

Aniba, a timber suitable for railway ties.

1255. RANGHEL GALINDO, A. Los palos brasil de Colombia. *Carib. Forester* 5(2):84-93. Jan. 1944. 1.9622 T2C23

English summary. Designates the principal dyewoods of Colombia, the availability and growth of the trees, and uses of their woods.

1256. RANGHEL GALINDO, A. Plan forestal colombiano. Bogotá, Colombia. Departamento de Tierras, 1946? 20 p. 99.24 C67

Typewritten.

A report outlining backgrounds of Colombian forest policy and suggesting programs for a Forest Institute to cover: 1, Conservation of the forest resource; 2, Reforestation of denuded areas; 3, Study of forest industrialization, which last includes lists of forest species to be utilized in production of barbascos, cinchona, tannins, rubber and other guttas, balsams, balsa wood, fine woods, dye and chemical species, box lumber, fibers, chicle, palm oils and waxes, pulp and paper, and medicinal plants. Estimates the costs of implementing this forestry plan.

1257. RANGHEL GALINDO, A. Las potentialidades forestales de la República de Colombia. *Cong. Forest. de Colombia* 1:53-74. 1945. 99.9 C7697

Similar title in *Colombia* 6/7:189-200. Illus. June/July 1944. 280.8 C712

Describes forest regions and lists commercial species for each, with some discussion of forest products.

1258. RECALDE DE LA ESPRIELLA, V. Consideraciones sobre el problema forestal en el Departamento del Tolima. *Cong. Forest. de Colombia* 1:369-373. 1945. 99.9 C7697

1259. RECORD, S. J., and KUYLEN, H. Santa Marta Valley, Colombia. *Trop. Woods* 23:9-23. Sept. 1930. 99.08 Y1Tr

Northeastern Colombia forests, commercial species therein, and their utilization. An annotated list of trees and shrubs collected by the authors and a checklist of common and scientific names are appended.

1260. SAMPER, A. El fomento forestal y la política agraria. *Rev. Nac. de Agr. [Bogotá]* 41(512):14-16. Dec. 1947. 9.4 R32

1261. SEIFRIZ, W. Die höhenstufen der vegetation in der Sierra Nevada von Santa Marta (Colombia). *Bot. Jahrb.* 68:107-125. Ref. Map. Nov. 16, 1936-Apr. 14, 1937. 450 En3B

Delineates vegetation zones and describes dominant plants in each zone.

1262. STANDLEY, P. C. The Colombian species of *Aspidosperma* and *Tabebuia*. *Trop. Woods* 36:13-20. Dec. 1933. 99.08 Y1Tr

1263. TOBON VILLEGAS, A. El exagerado uso de la leña es causa de la crisis forestal. *Arboles* 2:141-144. Jan. 1945. 99.8 Ar16

The excessive cutting of fuelwood and the forest situation in Colombia.

1264. U. S. TARIFF COMMISSION. Agricultural, pastoral, and forest industries in Colombia. Washington, 1949. 45 p. Maps.

173 T17Agc

Colombia

Reviews basic factors affecting development of forest industries. P.39 summarizes lumber and wood products, rubber and balata, tanning materials and dyewoods.

1265. URIBE RAMIREZ, G. La campaña del árbol. Rev. Nac. de Agr. [Bogotá] 41(510/511):28-30. Oct./Nov.1947. 9.4 R32

Proposed organizations and laws to forward forestry in Colombia.

1266. URIBE RAMIREZ, G., and BELTRAN, P. P. La Ley de Tierras perjudica la conservación de las reservas forestales de Colombia. Rev. Nac. de Agr. [Bogotá] 38(480):23-24. June 1944. 9.4 R32

Asociación de Amigos del Arbol considers the land law in relation to forest reserves.

1267. WYLIE, K. H. The agriculture of Colombia. USDA Foreign Agr. B. 1,160 p. Oct.1942. 1 F752F
Forest resources section, p.8-9.

ECUADOR

1268. ACOSTA SOLIS, M. Algunas consideraciones sobre la futura industria del papel en el Ecuador. Ecuador Dept. Forest. P.5,11 p. Oct.1949. 99.9 Ec9P

Also in Manabí, Ecuador, Consorcio de Cent. Agr. B. 11(60):27-34. Nov./Dec.1949. 9.5 M31

Some considerations of the future of the pulp and paper industry in Ecuador.

1269. ACOSTA SOLIS, M. Algunas consideraciones sobre la tierra ecuatoriana y su colonización. Quito, 1945. 20 p. 282.2 Ac7

Includes the place of timber development and forest products in colonizing the forested areas of Ecuador.

1270. ACOSTA SOLIS, M. Commercial possibilities of the forests of Ecuador -- mainly Esmeraldas Province. Trop. Woods 89:1-47. Mar.1947. 99.08 Y1Tr

After a physiographic description of the country as a whole, the author reviews agricultural conditions, and makes an analysis of forest composition. He estimates forested areas by provinces. Further section headings are: Forest exploitation; Economics of forest products in Ecuador; Reasons for locating a forest industry in Ecuador; Areas suitable for immediate exploitation; The forests of Esmeraldas Province; Labor and tools in Ecuador; Alphabetical checklist of the principal forest species of Ecuador.

1271. ACOSTA SOLIS, M. Contribuciones a la geobotánica ecuatoriana; anotaciones sobre la vegetación del norte de Quito desde Cotochllao y San Antonio hasta Río Guayllabamba. Quito, Universidad Central, 1942. 120 p. Ref. Illus. 457.4 Ac7

Also in Ecuador U. Cent. An. 67(313):5-83. Jan./Mar.1942. 516 Ec9

Contributions to Ecuadorian geobotany; notes about the vegetation north of Quito. Has English summary.

1272. ACOSTA SOLIS, M. Especies forestales y ornamentales leñosas aconsejadas para las regiones y climas del Ecuador. Ecuador Dept. Forest. P. 7,41 p. Dec.1949. 99.9 Ec9P

Forest tree species and ornamental woody plants deemed suitable for the regions and climates of Ecuador. Lists species by botanical names, common names, and gives notes on occurrence.

1273. ACOSTA SOLIS, M. El eucalipto en el Ecuador. Ed.2. Quito, Editorial "Ecuador", 1949. 47 p. Ref. Illus. 99.35 Ac7E

1274. ACOSTA SOLIS, M. The forests of Ecuador. Ann Arbor Mich. U., 1947. 18 p. 99.24 Ac7

Ecuador

1275. ACOSTA SOLIS, M. La gran riqueza forestal del Ecuador como mercado para EE.UU. Ecuador. Cám. Agr. Prim. Zona 4:58-59. Jan./Mar. 1941. 9.5 Ec96

Discusses United States hardwood requirements and Ecuador's forests as a possible source of supply.

1276. ACOSTA SOLIS, M. Guía comercial maderera del Ecuador. Ecuador. Cám. Agr. Prim. Zona Rev. 4:170-179. Aug.-Oct. 1941. 9.5 Ec96

Commercial timber guide, Ecuador.

1277. ACOSTA SOLIS, M. Maderas más conocidas y usadas en la Prov. de Esmeraldas (Ecuador). Maderil 14(167):13-16; (168):11-16. May-June 1946. 99.82 M26

Timbers best-known and used in the Province of Esmeraldas. There is a table of common and scientific names, as well as lists classified by properties and uses of timbers.

1278. ACOSTA SOLIS, M. Nature protection in Ecuador. Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948: 328-331. 150 In82 No.4

1279. ACOSTA SOLIS, M. Nuevas contribuciones al conocimiento de la Provincia de Esmeraldas, I. Quito, 1944. 606 p. Ref. Illus. 280.165 Ac7

Includes chapters on forest vegetation and timbers, in addition to accounts of geography, climate, agriculture, and ethnology.

1280. ACOSTA SOLIS, M. Plan de organización del Instituto de Conservación y Fomento Forestal. Quito, 1949. 3 p. 99.9 Ec9PL

Organization plan for an Institute of Conservation and Forest Development in Ecuador.

1281. ACOSTA SOLIS, M. Plan sobre la protección y fomento forestal del Ecuador. Quito, Editorial "Ecuador," 1949. 45 p. 99.65 Ac7Pl

A plan for the protection and development of Ecuador's forests.

1282. ACOSTA SOLIS, M. Por la protección y fomento forestal del Ecuador. Ed.2. Quito, Editorial "Ecuador," 1949. 40 p. Illus. 99.65 Ac7P

Protection and development of Ecuador's forests, specifying land and forest conditions in need of immediate attention.

1283. ACOSTA SOLIS, M. Principal timbers used in the Sierra del Ecuador. Trop. Woods 57:1-6. Mar. 1939. 99.08 Y1Tr

1284. ACOSTA SOLIS, M. Productos forestales del Ecuador. Maderil 12(133):7-10, 27-28. July 1939. 99.82 M26

Discussion of products. Lists woods known in international commerce, woods not known in international commerce, woods used only in Ecuador, species which have been introduced, and other species which would do well in Ecuador.

1285. ACOSTA SOLIS, M. La tagua [Phytelephas]. Quito, Ecuador, 1944. 37 p. Illus. 99.35 Ac7

Includes utilization in building.

1286. ACOSTA SOLIS, M. Vegetación y riqueza forestal de la Provincia de Esmeraldas (Ecuador). Maderil 14(164):11-14, 25-28; (165): 13-16. Jan., Mar. 1942. 99.82 M26

Chiefly notes about outstanding tree species.

1287. ACOSTA SOLIS, M. Woods of Ecuador, I-II. Ann Arbor, Mich. U., 1947-48. 2 v. 457.4 Ac7W

I, Principal woods used in the Sierra; II, Principal woods used in the Western Region. Lists woods by scientific name, common name, and locality. The list represents a micro-slide collection prepared by the author. Another numbered list of woods and woody plants is in

Ecuador

Flora [Quito] 7(17/20):7-77. Dec. 1950. 450 F662

1288. AUBERT DE LA RUE, E. Quelques aspects de vegetation des Andes de l'Equateur. Soc. Natl. d'Acclim. et de Protect. de la Nature B. 95:57-66. Ref. Apr./June 1948. 410.9 P21

Some aspects of the vegetation of the Ecuadorian Andes.

1289. BALSA ECUADOR LUMBER CORPORATION. Balsa -- a madeira forte e leve. Fazenda 41(8):44-45. Illus. Aug. 1946. 6 H11P

1290. BANDA C., F. Ecuador's balsa. Pan Amer. Union B. 77: 626-630. Illus. Nov. 1943. 150.9 M76

1291. BANDA C., F. Ecuador's balsa goes to war. Agr. Amer. 3: 211-213. Illus. Nov. 1943. 1 F752A

1292. BURBANO R., J. Monografía botánica de la Provincia de Imbabura. Flora [Ecuador] 1(2):23-39. Oct. 1937. 450 F662

Describes vegetation zones and lists timber species occurring in forested regions.

1293. CAVE, M. S. Forest legislation in Ecuador. Washington, U. S. Off. of Inter-Amer. Aff., 1945. 9 p. Ref. Pan Amer. Union Libr.

Introduction deals with general forest conditions in Ecuador. A glossary of tree names is appended.

1294. CEVALLOS M., H. G. Observación del aspecto forestal madrero de Santo Domingo y Esmeraldas, con Misión Técnica Norte-americana. Ecuador. Cám. de Agr., Prim. Zona Rev. 6(53/55):16-31. Jan./Mar. 1944. Pan Amer. Union Libr.

Forests and timbers of Santo Domingo and Esmeraldas, as observed during the tour of the U. S. Forest Service technical mission to Ecuador.

1295. DIELS, L. Beiträge zur Kenntnis der Vegetation und Flora von Ecuador. Bibliot. Bot. 16, 190 p. Ref. Map. 1937. 452.4 B47

Ecological description of vegetation zones, in addition to botanical listings of species.

1296. ECUADOR. MINISTERIO DE ECONOMIA. Informe a la nación 1948-1949. Quito, 1949. 144 p. 280.9 Ec94

Report of the Director of the Departamento Forestal, p. 64-75.

1297. ESPINOSA, R. Algo sobre la destrucción de los suelos; la obra ruinosa del fuego. B. de Inform. Cient. Nac. 3(20/21):23-28. June/July 1949. 475 B633

Soil destruction in Ecuador; especially as observed in Zaruma Cantón, where forest fires have reduced a once-valuable timber resource

1298. FLETCHER, M. I. Balsa industry of Ecuador. Econ. Geog. 25(1):47-54. Illus. Map. Jan. 1949. 278.8 Ec7

1299. FRANCKE, A. Die forstlichen Verhältnisse von Ecuador.

Z. f. Weltforstwirt. 5:452-453. Mar. 1938. 99.8 Z35
Forest conditions in Ecuador.

1300. GARCIA, A., and ORELLANA, H. Problema de la conservación de los bosques y de la reforestación en el Ecuador. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(53):6-8. Jan./Mar. 1948. 9.5 M31

1301. GARCIA SOLORIZANO, A. Ecuador and its present natural resources. Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948:426-443. Maps. 150 In82 No. 4

One map delineates land-use areas, another the distribution of certain forest species. Charts, p. 435-441, list principal woods, names, and general localities.

1302. GARCIA S., A. El problema de la conservación de suelos y de la reforestación en el Ecuador. Manabí, Ecuador. Consorcio de Cent. Agr. B. 12(61):48-54. Jan./Mar. 1950. 9.5 M31

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1303. GREENHOUSE, S. The culture of the balsa tree in Ecuador. J. Forestry 33:870-876. Ref. Oct. 1935. 99.8 F768

1304. GUAYAQUIL, ECUADOR. CHAMBER OF COMMERCE, and others. Report ... to His Excellency, Mr. Henry A. Wallace ... on decreased production of balsa-wood due to decision of the Board of Economic Warfare against Ecuadorian producers. Guayaquil, 1943. 8 p. 99.76 G93

Guayaquil Chamber of Agriculture and Chamber of Industries, joint authors. Text also in Spanish.

1305. HORN, E. F. Forest resources and forest types of the Province of El Oro, Ecuador. Carib. Forester 6:209-218. July 1945. 1.9622 T2C23

Spanish and French summaries.

1306. HORN, E. F. Forest resources of western Ecuador. Agr. Amer. 7:46-49. Illus. Mar. 1947. 1 F752A

1307. HORN, E. F. Growing balsa [*Ochroma lagopus*] in western Ecuador. Carib. Forester 7:285-295. Oct. 1946. 1.9622 T2C23

Spanish and French summaries.

1308. LITTLE, E. L. A collection of tree specimens from western Ecuador. Carib. Forester 9:215-298. Ref. Map. July 1948.

1.9622 T2C23

Spanish and French summaries. Includes general forest description and notes on occurrence of individual trees.

1309. LITTLE, E. L. Does mahogany (*Swietenia*) occur in Ecuador? Trop. Woods 92:41-43. Dec. 1947. 99.08 Y1Tr

1310. LITTLE, E. L. Trees in Ecuador. Foreign Agr. 12:54-59. Illus. Mar. 1948. 1.9 Ex7For

1311. MCCLURE, F. A. Bamboo in Ecuador's highlands. Agr. Amer. 6:164-167. Oct. 1946. 1 F752A

Discusses utilization of the native species and their occurrence.

1312. MCCLURE, F. A. Bamboo in Ecuador's lowlands. Agr. Amer. 5:190-192, 194. Oct. 1945. 1 F752A

Chiefly *Guadua angustifolia* and the uses to which it is adapted.

1313. MARRERO, J. El cultivo del eucalipto en la Sierra del Ecuador. Carib. Forester 7:57-69. Jan. 1946. 1.9622 T2C23

English and French summaries. Includes utilization aspects.

1314. MARRERO, J. Utilización de la caña Guadúa en Ecuador. Carib. Forester 5:145-151. Apr. 1944. 1.9622 T2C23

English summary. Illustrations show growth habit, and uses of the split and round canes in construction.

1315. MILLE, L. Nociones de geografía botánica aplicadas al Ecuador. Ed.2. Quito, 1922. 72 p. 457.4 M61

Ideas on geographic botany applied to Ecuador.

1316. MOLESTINA O., E. Reseña agrícola del Ecuador. Chron. Bot. 7:167-169. July 1942. 450 C46

1317. NOTES on Ecuadorian timbers. Timber Devlpmt. Assoc., Timber Inform. Ref. 35, 5 p. 1948. 99.9 T48Tr

Timbers are listed by common names. Scientific names, notes on properties, and uses are given.

1318. ORELLANA B., R. La balsa; arbol de la floresta ecuatoriana. Banco Hipotecario del Ecuador B. (Epoca 2) 5(9):37-59. Illus. Dec. 1941. 281.8 B222

History of the wood; regions of production; economic importance; characteristics and uses; conditions affecting growth of trees; associated plants; felling; seasoning; commercial grading; enemies and defects; statistics of exports; cost of reforestation; laws for conservation.

Ecuador

1319. PAREDES C., A. Anotaciones acerca de la vegetación y la flora de la hoya de Tulcán. Ecuador. U. Cent. Inst. Bot. B. 8,i.e. 6(8): 39-56. Illus. July 1949. 451 Ec9

Notes about the vegetation and flora of the Tulcán River valley.

1320. PAREDES C., A. Especies industriales de la flora ecuatoriana. B. Inform. Cien. Nac. 3:164-176. July/Aug. 1950. 475 B633
Chiefly timber trees.

1321. POPENOE, W., and ANTHONY, H. E. Ecuador. In Naturalist's guide to the Americas, p.662-674. Ref. Baltimore, Williams & Wilkins, 1926. 409 Ec7

1322. RIMBACH, A. The forests of Ecuador. Trop. Woods 31:1-9. Sept. 1932. 99.08 Y1Tr

Describes the forests in three regions: The Coast Region, the Oriental Region and the Interandine (Sierra) Region. A checklist of common and scientific names of trees is appended.

1323. SAUNDERS, L. F. Sawmilling in Ecuador. Timberman 22 (8):158-159. June 1921. 99.81 T484

1324. SHINOL, J. W. Forest resources, lumber industries, and trade in Ecuador. U. S. Off. of Internat'l. Trade, Indus. Ref. Serv. Pt.6, Forest Prod. 4(51), 14 p. Illus. Sept. 1946. 157.54 In236

Contents: Regional descriptions; ownership and practices; commercial development; commercial species; the forest industry; production; logging methods and operations; the sawmill industry; consumption; laws affecting the sawmill industry; trade.

1325. SODIRO, PADRE L. Ojeada general sobre la vegetación ecuatoriana. Ecuador. U. Cent. Inst. Bot. B. 5(6/7):192-247. June 1947. 451 Ec9

A general review of Ecuador's vegetation zones.

1326. SVENSON, H. K. The vegetation of Ecuador, a brief review. In Plants and Plant Science in Latin America, p.304-306. Waltham, Mass., Chron. Bot., 1945. 453 V58

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1327. TEESDALE, L. V. Production, seasoning and shipping of balsa. Timberman 44(11):38,40,42-43; (12):37-38,40,44; 45(1):20,22-23,26,28. Illus. Sept.-Nov. 1943. 99.81 T484

Pt. 1, Log production; Pt. 2, Milling methods; Pt. 3, Kiln seasoning.

1328. TEESDALE, L. V. Timber of Ecuador best suited for wooden ships. Madison, Wis., U. S. Forest Serv., Forest Prod. Lab., 1944 54 p. Illus. 1.962 F6T48

Part of a general report of the Forest Service mission to Ecuador, item 1330 in this bibliography.

1329. TEESDALE, L. V. Wooden boats of Ecuador. Amer. Forests 52:410-412,444-445. Illus. Sept. 1946. 99.8 F762

Discusses Ecuadorian timber species utilized, and the properties for which these timbers are valued.

1330. U. S. FOREST SERV. The forests of western and central Ecuador. Washington, 1947. 134 p. Ref. Illus. Map. 1.962 A2F7627

L. R. Holdridge, L. V. Teesdale, J. E. Myer, E. L. Little, E. F. Horn, and J. Marrero, joint authors.

U. S. Office of the Coordinator of Inter-American Affairs cooperating.

Partial contents: The country; The forests; Forest exploitation; Future forest use and management.

1331. U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Ecuador: agricultural, pastoral and forest industries. Washington, 1945. 46 p. 1.943 Ec9

Ecuador

Forest products and industries, p.33-43.

1332. WIGGINS, I. L. The Australian blue gum (*Eucalyptus globulus Labill.*) in Ecuador. *Lloydia* 9:310-314. Dec.1946. 442.8 L77

Includes wood utilization.

1333. WYLIE, K. H. Ecuador's forests and the War. *Foreign Agr.* 10:75-80. May 1946. 1.9 Ec7For

In addition to timber and balsa, discusses rubber, cinchona, tagua, kapok, and tanning materials.

THE GUIANAS

1334. BEEBE, W., and GLEASON, H. A. The Guianas. In Naturalist's guide to the Americas, p.649-662. Baltimore, Williams & Wilkins, 1926. 409 Ec7

1335. DEMERARA GREENHEART. Amsterdam Kolon. Inst., Afd. Handelsmus. 17:41-48. 1937. 503 Am82

Discussion of the greenhearts [*Ocotea* and *Tabebuia?*] of British Guiana and Surinam.

1336. FIDEL, C. Les trois Guyanes; française, néerlandaise, britannique. *Rev. Internat. des Prod. Colon.* 4:303-313. Dec.1929. 286.8 R326

Summary comparisons of the situation and economy (including the forest economy) of the three Guianas.

1337. LARDNER, G. B. S. Timbers of British and Dutch Guiana. *Wood* [London] 13:280-282. Illus. Oct.1948. 99.82 W855

1338. SMITH, A. C. The vegetation of the Guianas, a brief review. In Plants and Plant Science in Latin America, p.295-297. Ref. Waltham, Mass., Chron. Bot., 1945. 453 V58

Also in *Chron. Bot.* 6:449-452. Ref. Map. Dec.1951. 450 C46

1339. SPOON, W. Toepassingen van walaba of bijlhout. Amsterdam Indisch Inst., Afd. Handelsmus. Ber. 218, 11 p. 1947. 503 Am82B

Applications for walaba [*Eperua*]. Reviews occurrence and uses in Surinam and the other Guianas, particularly with regard to tests for use as pulpwood, fuelwood, distillation products, and a tannin source.

BRITISH GUIANA

- 1340.AITKEN, J. B. The wallabas of British Guiana. *Trop. Woods* 23:1-5. Sept.1930. 99.08 Y1Tr

Discusses occurrence and accessibility of the *Eperua* wallabas in British Guiana forests. Properties include tests for usefulness as pulp, fuel, and charcoal.

1341. BRADT, G. W. The tropical rain forest of British Guiana. *Mich. Agr.* 8(8):3,9. May 1929. 276.8 M582

1342. BRASNETT, N. V. Some problems of sustained yield management in the colonies. *Empire Forestry Rev.* 29:9-12. Mar.1950. 99.8 Em72

Includes a discussion of management plans in British Guiana.

1343. BRITISH GUIANA. FOREST DEPT. Empire forests and the war; British Guiana. London, Brit. Empire Forestry Conf., 1947. 48 p. 99.65 B77

1344. BRITISH GUIANA. FOREST DEPT. Report, 1925-1949. Georgetown, Demerara, 1926-50. 15 v. 99.9 B777

Preceded by reports of British Guiana. Institute of Mines and Forests (294.9 B77).

Guianas -- British Guiana

1345. *BRITISH GUIANA. FOREST DEPT. Timber supply, consumption and marketing in British Guiana. Leg. Council Paper 5. 1935.

A statement prepared for the 4th British Empire Forestry Conference, South Africa, 1935.

1346. BRITISH GUIANA. FOREST DEPT. Timbers of British Guiana; notes on four timbers recently tested at the Forest Products Research Laboratory, Princes Risborough: Greenheart [*Ocotea rodiaeae*], wallaba [*Eperua falcata*], purpleheart [*Peltogyne pubescens*], crabwood [*Carapa guianensis*]. Georgetown, Demerara, 1933. 10 p. 99.79 B773

Also discusses timber-producing areas of the Colony, methods of extraction, and utilization.

1347. BRITISH GUIANA. INTERIOR DEVELOPMENT COMMITTEE. Handbook of natural resources of British Guiana. Georgetown, Demerara, 1946. 243 p. Illus. Maps. 280.166 B77

Contents, by various authors: Physical characteristics; Climatological characteristics; Mineral resources; Forest resources; Soil resources; Water supply resources; Power resources; Wild life resources; Notes on problems affecting industrialization of interior. An index is appended. For separate publication of Forest resources section, see item 1373, this bibliography.

1348. BRITISH GUIANA woods for paper-making, 1-2. Gt. Brit. Imper. Inst. B. 22:14-26; 26:4-17. 1924, 1928. 26 G79

Paper-making qualities of commonly occurring timbers, likely to provide wood waste when the forests are exploited. A table in Pt. 1, p.15, presents information on nomenclature and occurrence of the timber trees tested.

1349. CASE, G. O. British Guiana timbers. London, Metcalfe & Cooper, 1934. 73 p. Illus. 99.79 C26

Contents: Description of British Guiana and the forests; Accessibility of timber and methods of exploitation; Estimated cost of logging under general exploitation; Hydro electric power; Labour available; Seasoning of timber; Market considerations; Comparison of British Guiana forests with other forests; General description of most important British Guiana timbers; Strength of British Guiana timbers; Uses of British Guiana timbers.

1350. *CASE, G. O. Report on possibilities of manufacturing veneers and plywood in British Guiana. Georgetown, Brit. Guiana Secondary & Minor Indus. Bd., 1947. 9 p.

1351. CHARCOAL from British Guiana. Gt. Brit. Imper. Inst. B. 28:138-146. July 1930. 26 G79

1352. CLARK, H. S. Use of amaranth [*Peltogyne pubescens* from British Guiana, also known as purpleheart] for interior trim and flooring. Trop. Woods 25:1-3. Mar. 1931. 99.08 Y1Tr

Finishing characteristics of the wood.

1353. CREGAN, K. H. The forests of British Guiana. Amer. Forests 41:626-629, 662. Illus. Nov. 1935. 99.8 F762

1354. DANKS, F. S., and HUGHES, J. H. Notes on British Guiana timbers. U. S. Off. Tech. Serv. PB Rpt. 68042, 28 p. 1945. 157.8 R29

1355. DAVIS, T. A. W. Notes on an expedition to the Rupununi District, British Guiana. Kew Misc. Inform. B. 10:526-530. 1936.

451 K51B

Description of forests visited with the chief objective of studying balata sources.

*Not examined.

Guianas -- British Guiana

1356. DAVIS, T. A. W. Report on the balata industry in British Guiana, with special reference to the Rupununi District. Georgetown, Demerara, 1933. 30 p. 77 D29

Contents: Description of the locality; The silviculture of the balata; The exploitation of the balata forests; Production and economic importance of the industry; A discussion of certain factors affecting the control of the industry; The effect of the regulations controlling the balata industry and recommendations for their modification.

1357. DAVIS, T. A. W. Some observations on the forests of the Northwest District. Brit. Guiana Agr. J. 11:157-166. Map. Sept. 1929. 9.6 B774

1358. DAVIS, T. A. W., and RICHARDS, P. W. The vegetation of Moraballi Creek, British Guiana; an ecological study of a limited area of tropical rain forest, I-II. J. Ecol. 21:350-384; 22:106-155. Ref. Illus. Aug. 1933, Feb. 1934. 450 J829

1359. EMORY, L. T. Timber resources of British Guiana. Forest Leaves 20:186-188. Dec. 1926. 99.8 F763

Also comments on actual operating experiences.

1360. EXPLOITATION of the forests of British Guiana. Empire Forestry Rev. 29:4-6. Mar. 1950. 99.8 Em72

Emphasizes the problems of utilizing secondary timber species. Markets as a key to successful operation.

1361. FANSHAWE, D. B. Forest products of British Guiana. 1, Principal timbers. Brit. Guiana Forest Dept. Forestry B. (n. s.) 1, 101 p. Ref. 1948. 99.9 B777F

Description of principal trees and timbers, p.10-81; tree frequency and wood use classification tables, p.82-91; glossary of scientific names, p.92-99.

1362. FANSHAWE, D. B. Forest products of British Guiana. 2, Minor forest products. Brit. Guiana Forest Dept. Forestry B. (n. s.) 2, 81 p. 1950. 99.9 B777F

Includes tannin plants, resins, and balata.

1363. FANSHAWE, D. B. Studies of the trees of British Guiana. 5 Pts. Trop. Woods 90:30-34; 92:25-40; 93:1-28. Ref. June, Dec. 1947, Mar. 1948. 99.08 Y1Tr

1, Crabwood (*Carapa guianensis*); 2, Greenheart (*Ocotea rodiae*); 3, Wallaba (*Eperua* spp.); 4, Purpleheart (*Peltogyne* spp.); 5, Mora (*Mora excelsa*). For each, discusses botany and ecology, silviculture, properties of wood and utilization. Some comments on trade status.

1364. FRANCIS, W., and MULLIN, J., eds. The British Guiana handbook. Georgetown, 1923. 300 p. Illus. 255.6 B34

Forests and forest industries, p.92-105.

1365. GILMOUR, J. D. Exploitation of the forests of British Guiana. Empire Forestry Rev. 28:131-136. June 1949. 99.8 Em72

1366. GRAHAM, E. H. Flora of the Kartabo Region, British Guiana. Carnegie Mus., Pittsburgh, Ann. 22:17-292. Ref. Illus. Feb. 1, 1934. 500 P68A

Forest vegetation section, p.40-50, analyzes six forest plant associations.

1367. HAMAN, M., and WOOD, B. R. The forests of British Guiana. Trop. Woods 15:1-13. Sept. 1928. 99.08 Y1Tr

Describes four plant zones, closely correlated with soils, water, and climate. Appends a list of forest products from typical species, and a checklist of common and scientific tree names.

1368. HINGSTON, R. W. G. The Oxford University Expedition to British Guiana. Geog. J. 76:1-24. Illus. July 1930. 472 G29

Describes forest vegetation. Comment by forest officer T. A. W. Davis, p.21-22.

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1369. HOHENKERK, L. S. Forestry in British Guiana. Statement prepared for the British Empire Forestry Conference, London, July 1920. London, H. M. Stationery Off., 1920. 32 p. Ref. 99.24 B773

Bound with the British Guiana Forest Conservator's statement to the 1928 Conference, by B. R. Wood.

1370. HOHENKERK, L. S. The forests of British Guiana. Empire Forestry J. 3:169-179. Illus. Dec. 1924. 99.8 Em72

1371. HOHENKERK, L. S. A review of the timber industry of British Guiana. Georgetown, Demerara, 1923. 22 p. 99.79 H68

Partial contents: Area of forests; composition of forests; the timber industry; greenheart -- logging, uses, and trade; mora and other woods; utilization for sleepers, paving blocks, mine timbers, and pulp; problems connected with exploiting the forests of British Guiana; a list of common trees, with average number per acre.

1372. HOLDRIDGE, D. An investigation of the prospect for white settlement in British Guiana. Geog. Rev. 29:622-642. Illus. Oct. 1939. 500 Am35G

Includes aerial photographs of the interior area under consideration. Discusses shifting agriculture and soil indicators.

1373. HUGHES, J. H. Forest resources of British Guiana; being section 5 of Handbook of natural resources of British Guiana, comp. under the direction of the Interior Development Committee of British Guiana. Georgetown, Demerara, Daily Chron., 1947. 191 p. Illus. Map. 99.24 H87

Contents: British Guiana forests; The accessible commercial forests of British Guiana; The description of several trees and their wood; Forest industries.

See also item 1347 in this bibliography.

1374. HUNT, L. G. Colonial timbers. Gt. Brit. Colon. Devlpmt. Corp., Colon. Devlpmt. 1(1):10-11. Illus. Spring 1950. 280.9 G7933C
Briefly describes operations in British Guiana being forwarded by the Colonial Development Corporation.

1375. MYERS, J. G. Savannah and forest vegetation of the interior Guiana plateau. J. Ecol. 24:162-184. Ref. Feb. 1936. 450 J829

1376. *OLIPHANT, F. M. Commercial possibilities and development of the forests of British Guiana. Leg. Council Paper 20. 1936.

1377. PULP and paper developments in British Guiana. U. S. Off. of Internatl. Trade, Indus. Ref. Serv. Pt. 6, Forest Prod. 4(62), 2 p. Dec. 1946. 157.54 In236

Digest of a report by R. J. Bay. Gives reasons for lack of developing domestic pulpwood resources, especially wallaba [Eperua falcatia].

1378. RECORD, S. J. Jacaranda copaia in British Guiana. Trop. Woods 3:6-8. Sept. 1925. 99.08 Y1Tr

1379. SMITH, A. C. Botanical exploration of interior British Guiana. Trop. Woods 57:6-11. Mar. 1939. 99.08 Y1Tr

Observes character and composition of forests in the unexplored interior and notes certain differences between it and the typical Guiana forest known nearer the coast.

1380. SWABEY, C. Note on the development of forest policy in British Guiana. Timehri 29:27-35. Aug. 1950. 9.6 T48

1381. SWABEY, C. Timber handling in British Guiana. Wood [London] 15:370-371. Illus. Oct. 1950. 99.82 W855

1382. WOOD, B. R. Greenheart [Ocotea rodiae]. Indian Forester 53:54-56. Jan. 1927. 99.8 In2

Also reviewed in Trop. Woods 8:21-22. Dec. 1, 1926. 99.08 Y1Tr

*Not examined.

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1383. WOOD, B. R. Report by the Conservator of Forests on the valuation of the forests of the Bartica-Kaburi area. Georgetown, Demerara, 1926. 25 p. Map. 99.24 B773R

Describes principal forest types and the silviculture of principal species; survey and valuation of the Bartica-Kaburi area, with suggestions for exploitation. A table in the Appendix lists tree species and their average incidence per acre.

FRENCH GUIANA

1384. BAZIRE, J. La forêt guyanaise. *Figaro Artistique* Illus. 8, (spec. no.):30-32. Illus. Aug./Sept. 1931. Libr. Cong.

1385. BÉNA, P. L'exploitation forestière doit servir de tremplin à l'essor économique du Département Français de la Guyane. *Bois et Forêts des Trop.* 11:251-268. Illus. Third Q. 1949. 99.8 B632

Forestry in French Guiana. Vegetation zones, administration of the Colony's economy, forest exploitation, wood transport, forest industries, and wood trade.

1386. BENOIST, R. Les bois de la Guyane française. *Arch. de Bot.* 5, Mem. 1, 292 p. Ref. Illus. 1931. 450 Ar25M

Timbers of French Guiana, with a list of vernacular names and notes on utilization. Description of the forests, p.5-11.

1387. BENOIST, R. La forêt et les bois de la Guyane française. Lyon, Soc. Linnéenne Ann. 71(1924):37-44. 1925. 505 L992

1388. BENOIST, R. La végétation de la Guyane française. *Soc. Bot. de France* B. 71:1169-1177; 72:1066-1078. 1924-25. 451 F84B

The vegetation of French Guiana, treated in three zones: forest, savanna, and shore.

1389. BERTIN, A. Les bois coloniaux, leur utilisation. Paris, Larose, 1920? 51 p. 99.27 B46

Includes a discussion of general forestry problems in French Guiana.

1390. BERTIN, A., BETTENFELD, M., and BENOIST, R. Les bois de la Guyane française et du Brésil. *France Min. de La Guerre, Mission d'Etudes Forest.* 5, 321 p. Illus. 1920. 99.27 F84

Timbers of French Guiana and of Brazil. Contents: 1, The Guiana forest; 2, Outlook; 3, Botanical study and wood technology; 4, Industrial classification of woods; classification by comparison with European timbers; 5, Botanical survey; 6, Actual methods of forest exploitation; 7, Suitable means of creating a forest industry in Guiana; 8, Colonial timbers and their utilization; development of colonial timbers and safeguarding French forests. App. 1, Tables of wood names, properties and uses; App. 2, The timbers of Brazil, by M. Bettenfeld, including a comparison of the forests of Brazil and Africa, and classification and properties of woods used most in Brazil.

1391. BETTS, A. W. Timber hunting in French Guiana. *Veneers* 20(2):22-23; (3):22-23; (4):22-23. Illus. Feb.-Apr. 1926. 99.82 V55

1392. LES BOIS et la Guyane française. *Monde Colon.* Illus. 6(61): 219. Sept. 1928. 280.8 M74

1393. CHATELAIN, G. L'exploitation de bois de rose en Guyane française. *L'Agron. Colon.* 24:133-137; (211):16-21. May, July 1935. 26 Ag812

Exploitation of bois de rose [*Aniba rosaeodora*] in French Guiana.

1394. *CHATELAIN, G. L'exploitation forestière à la Guyane française. *Assoc. Colon.-Sci. [Paris] Actes & Compt. Rend.* 8:217-222. Dec. 1932.

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1395. CHEVALIER, A., and NORMAND, D. Forêts vierges et bois coloniaux. Paris, Presses Universitaires de France, 1946. 127 p.
Ref. 99.25 C42

Virgin forests and colonial timbers. Includes the forests and timbers of French Guiana, with notes on their utilization and management.

1396. COMITE NATIONAL DES BOIS TROPICAUX. Nos bois tropicaux. Paris, 1949. 30 p. 99.79 C73

Includes notes on the utilization of commercial timbers from French Guiana.

1397. DEMOUGEOT, M. Les bois de la Guyane française: l'angélique et ses usages. Rev. Internat. du Bois 3:527-534, 537-538. Dec. 1936. 99.8 R326

Dicorynia paraensis and its uses.

1398. *DEMOUGEOT, M. Les bois de la Guyane française: le manil et le parcouril. Rev. Internat. du Bois 1(11):54-59. Nov. 1934.

Sympmania globulifera and Platonia insignis.

1399. DEMOUGEOT, M. Les bois de la Guyane: le teck [Dicorynia paraensis]. Rev. Internat. des Prod. Colon. 4:24-28. Jan. 1929. 286.8 R326

1400. DEMOUGEOT, M. Les bois de tonnellerie. Rev. Internat. des Prod. Colon. 4:327-329. Dec. 1929. 286.8 R326

Similar information in Cong. Internat. du Bois et de la Sylviculture, Rpts. to Groups 1-4, Pt. 1 (31), 11 p. 99.9 C7694

Cooperage woods of French Guiana.

1401. DEMOUGEOT, M. La forêt de la Guyane française. Rev. Internat. des Prod. Colon. 5:161-168. Apr. 1930. 286.8 R326

The forest of French Guiana: general aspects; the climate; accessibility; timber species and their utilization.

1402. DEVEZ, G. Les plantes utiles et bois industriels de la Guyane. L'Agr. Pratique des Pays Chauds 3 (n. s.):133-148, 303-314. Apr., June 1932. 26 Ag81

Classes industrial woods by uses, then lists them by common name, with botanical notes and utilization notes. Includes the balata-producers.

1403. EVOLUTION et possibilités de la production forestière de la Guyane. Rev. Internat. du Bois 13:41-43. Feb. 1946. 99.8 R326

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Exploitation of Guiana's forests for timber, bois de rose, and balata.

1404. LA GUYANE française. France Agence Gén. des Colon. B. 20:743-757, 927-952. Illus. May-June/July 1927. 260 C71B

Forests and forest products, p.933-942.

1405. HEIM DE BALSAC, F. Contribution à l'étude des écorces tannifères de la Guyane française. France. Agence Gén. des Colon. B. 22:36-48, 119-137, 340-368. Jan.-Feb., Apr. 1929. 260 C71B

A. Deforge, H. Heim de Balsac, and L. Lefèvre collaborating.

Tannin sources of French Guiana. 23 species are analyzed, with discussions of tree occurrence and wood utilization.

1406. LAPIE, G. Les forêts des colonies françaises. France. Ecole Natl. des Eaux et Forêts Ann. 2:107-136. Ref. 1928.

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The forests of French Guiana, p.128-130.

1407. LECOMTE, H. Les bois coloniaux. Paris, Armand Colin, 1923. 194 p. Ref. 99.79 L49B

French colonial woods. Guiana, p.150-153, with certain timbers

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discussed in chapters on different kinds of utilization.

1408. MARCHENAY, L. La Guyane française: terre d'avenir. Rev. Internat. du Bois 13:198-201. Dec. 1946. 99.8 R326

Forests and forest industries of French Guiana; their future.

1409. MÉNIAUD, J. L'exploitation forestière en Guyane française. Rev. Internat. de Prod. Colon. 4(48):320-326. Illus. Dec. 1929. 286.8 R326

Similar title in France Agence Gén. des Colon. B. 22:955-965. Sept. 1929. 260 C71B

Includes regulation of exploitation, labor problems, principal commercial species, and a discussion of the future of forest exploitation in French Guiana. An illustrated appendix contains pictures of forests and lumbering operations, p. I-IV.

1410. MENIAUD, J. Nos bois coloniaux. Paris, France, Agence Général des Colonies, 1931. 286 p. Illus. 99.27 M52N

Commercial woods of the French colonies, with scattered information on French Guiana. A forest map, p.134a; forest administration and other comments, p.371-374; botanical, technological, and commercial information regarding specific timbers, such as Dicorynia, Qualea, Ocotea, and Symphonia.

1411. POULALION, M. Palétuvier blanc dans les industries de tannerie, tonnellerie et papeterie. Rev. Internat. des Prod. Colon. 4: 333-336. Dec. 1929. 286.8 R326

An interview with an administrator of French Guiana regarding the possibilities of mangrove as a tannin source, as cooperage stock, and as pulpwood.

1412. PREISSIG, R. Les bois de la Guyane. Rev. Internat. des Prod. Colon. 3:32-33. Jan. 1928. 286.8 R326

The need to diversify and expand utilization of Guiana timbers beyond the cabinet wood export stage.

1413. RAIBAUDI, M. Le bois de rose. Rev. Internat. des Prod. Colon. 4:330-332. Dec. 1929. 286.8 R326

Aniba rosaeodora in French Guiana.

1414. RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Français d'Amérique. Bois et Scieries 55:118-121. Feb. 3, 1949. 99.81 B632

Timber commerce in French Guiana, p.119-120.

1415. RENAUD, M. Contribution à l'étude des bois de la Guyane française. France. Agence Gén. des Colon. B. 25:970-1031; 1120-1177; 1265-1308; 1372-1434. Illus. June-Sept. 1932. 260 C71B

An account of the forests and forest industries of French Guiana, in addition to descriptions of principal timbers.

1416. RENAUD, M. Etude de quelques bois de la Guyane. Paris, J. d'Ameublement, 1932. 92 p. 99.31 R29

1417. *RIQUEZAS florestais da Guiana, Martinica e Guadelupe. Bras. Madeireiro 5(58):21-25. Illus. 1949.

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1418. SIRRETTA. La forêt guyanaise. Quinz. Natl. de la Prod. Agr. d'Outre-Mer 9:123-129. 1931. (Congrès de la Production Forestière Coloniale et Nord Africaine.) 5 Q4

1419. STONE, H. Les bois utiles de la Guyane française. Marseille Mus. Colon. An. 24(2):39-135; 25(3):3-159; 26(2):3-68; 28(2):1-98; 28 (sup.):1-37. 1917-24. 99.79 St6B

Useful timbers of French Guiana. Supplement is an index to common and scientific names.

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1420. VIDAL, L. Essai de fabrication de papier avec le bois dit palétuvier blanc [Avicennia marina] de Guyane. Rev. Internat. du Bois 1(6/7):25-29. June/July 1934. 99.8 R326

A pulping test indicates some of the limitations of this plant.

1421. WOLOWITCH, D. Ressources forestières de la Guyane française. Bois et Forêts des Trop. 7:222-226. Map. Third Q. 1948. 99.8 B632

Describes the known forests in a general way, and discusses the practicability of exploitation.

SURINAM (Dutch Guiana)

1422. BURGER, D. H. Bos en bosbeheer in Suriname. Landbouwk. Tijdschr. 60:170-173. May 1948. 105.2 Or3

Forests and forestry in Surinam.

1423. CRUISER, C. A. Seeking crabwood in Dutch Guiana. Veneers 21(11):18-19. Nov. 1927. 99.82 V55
Carapa guianensis.

1424. DIJKMANS, M. A. F. Bosexploratie en -research ter activering van het Surinaamse bos. Tectona 40:36-50. Mar. 1950. 99.8 B65

Forest investigations and research for the development of Surinam's forest.

1425. EYMA, P. J. The Polygonaceae, Guttiferae and Lecythidaceae of Surinam. Amsterdam, de Bussy, 1932. 223 p. Ref. Illus. 457.5 Ey5

Chiefly botanical, with notes on the distribution of species. Includes brief remarks on wood uses, edible products, chemical and medicinal products, p.86-92; and an index to scientific and common names of species within these families which contain several important Surinam timber trees.

1426. FRANCKE, A. Die holz-und forstwirtschaft in Surinam Kolonforst. Mitt. 2:406-407. Mar. 1940. 99.9 K83

Lumbering and forestry in Surinam.

1427. GEIJSKES, D. C. Plants of the Surinam coastland; some observations on the littoral vegetation of Dutch Guiana. N. Y. Bot. Gard J. 46:229-236. Oct. 1945. 451 N48J

Includes the forest vegetation of sand reefs and swamps.

1428. GONGGRYP, J. W., and BURGER, D. Bosbouwkundige studiën over Surinam (Studies about forestry in Surinam). Fonds Landb. Explortbur. P. 32, 262 p. Ref. Illus. 1948. 12 F73
Chapter summaries in English. Extensive bibliography, p.212-257.

Contents: The forests of Surinam; The quantity of timber; Forest byproducts; Damaging influences; Management; Recommendations; Index of forest tree species.

1429. GONGGRIJP, J. W. On bleeding balata. Georgetown, Demerara, 1923. 12 p. (Brit. Guiana Government Notice 53.) 99.77 G58

Balata bleeding practices in the Guianas and Venezuela. Discusses legislation and general economy, with emphasis on the author's experimental work in Surinam.

1430. GONGGRIJP, J. W. Over Demerara greenheart, manbarklak en een nieuwe tegen paalworm bestande houtsort. West Indië, Landbouw. Tijdschr. v. Suriname en Curaçao 6(4):3-10. Sept. 1921.

9.6 L23

Occotea rodiae and Eschweilera.

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1431. GONGGRYP, J. W. Quelques remarques sur l'emploi d'essences exotiques et indigènes dans la sylviculture tropicale. Bois et Forêts des Trop. 7:251-257. Illus. Third Q. 1948. 99.8 B632
 Some remarks on using exotic and indigenous species in tropical silviculture. Based chiefly on the author's observations in Surinam, where, after many years' absence, he noted the regeneration of native species.
1432. GONGGRIJP, L. Boschexploratie in Suriname. Surinam Dept. Landbouw, Nijverheid en Handel, B. 48,100 p. Ref. Maps. Mar. 1925. 9.6 D95
 Forest investigations and surveys in Surinam.
1433. JUNKER, L. De toekomst van de houtexploitatie in Suriname. West-Indische Gids 28 i. e. 27:69-88. Ref. Mar. 1946. Libr. Cong.
 Future of lumbering and forestry in Surinam. Includes historical review.
1434. KLUGE, H. C. Curious loggers of the world: the boschneger of Suriname. Hardwood Rec. 55(10):18-20,22. Illus. Sept. 10, 1923. 99.81 H225
 Includes forests and forestry in Surinam.
1435. KONING, DE La sylviculture dans les Pays-bas et dans les colonies néerlandaises, 3. Indes occidentales. Rev. des Eaux et Forêts 64:75-81. Feb. 1926. 99.8 R322
 Also separate, 457.5 K84
 Geobotanical remarks, p.49-55. Useful plants, including timbers, p.56-65.
1437. LANJOUW, J. The Euphorbiaceae of Surinam. Amsterdam, de Bussy, 1931. 2 pts. 452.3 L27
 Pt. 1, 84 p. Ref. Maps. Utility and use by natives, p.51-69. Geobotanical remarks, p.70-84.
1438. MAGUIRE, B. The first botanical exploration of Table Mountain in Surinam; a report of the New York Botanical Garden's Tropical Expedition of 1944. I-II. N. Y. Bot. Gard. J. 46:253-272,277-287. Illus. Nov.-Dec. 1945. 451 N48J
 Forest industry, p.96,98-99.
1440. PERCIVAL, T. B. The Mora forests of Surinam. Hardwood Rec. 53(1):38,43. Illus. Apr. 25, 1922. 99.81 H225
 1441. PFEIFFER, J. P. De houtsoorten van Suriname. Amsterdam, Kolon. Inst., Afd. Handelsmus. 6, Meded. 22,2 v. Ref. Illus. 1926-27. 503 Am82
 Woods of Surinam. Chiefly wood technology. Contains notes on utilization, common names, and botany.
1442. *PFEIFFER, J. P. Rapport aangaande de wijze, waarop de regeering in Nederland en het gouvernement van Suriname in de toekomst werkzaam zullen kunnen zijn ter bevordering van den houtuitvoer van Suriname. 's-Gravenhage, Algemeene Landsdrukkerij, 1929. 110 p. Maps.
 Forests of Surinam, with particular reference to their industrial development.

*Not examined.

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1443. PULLE, A. A. Explorações botânicas de Surinam. Primeira Reunião Sul-Amer. de Bot., An. 1:239-248. 1939. 451 R31

In addition to describing the background and present condition of botanical knowledge of Surinam, describes the vegetation of explored areas. Pages cited above are an English translation preceding the Portuguese version.

1444. SNELLEN, E. De houtcap in Suriname. Tijdschr. v. Econ. Geog. 25:341-353. Nov. 1934. 280.8 T44

1445. SPOON, W. Dwarsliggers uit Suriname. Nederland. Boschbouw Tijdschr. 18:33-35. Feb. 1946. 99.8 N28

Railway ties from Surinam. Also issued as K. Ver. Indisch Inst. Afd. Handelsmus. Ber. 209, 3 p. Illus. 1946, with an English summary.

503 Am82B

1446. SPOON, W. De hout-exploitatie in Suriname tijdens den oorlog. K. Ver. Indisch Inst. Afd. Handelsmus. Ber. 207, 5 p. 1946.

503 Am82B

Timber exploitation in Surinam during the war. Emphasis is on trade conditions, but commercial species, their uses, and lumbering developments are indicated. Has English summary.

1447. SPOON, W. Houtverkeling in overzeesch Nederland voor metallurgische doeileinden, 1-2. Nederland. Boschwouw-Tijdschr. 18: 273-280; 19:17-26. Dec. 1946-Jan. 1947. 99.8 N28

Charcoal preparation in Netherlands overseas territories, for metallurgical use. Has English summary, and includes Surinam timber species tested for their suitability.

1448. SPOON, W. Surinaamsch hout voor fineer en triplex. Amsterdam, Kolon. Inst., Afdeeling Handelsmus. Ber. 191, 8 p. Illus. 1943? 503 Am82B

Surinam wood for veneer and plywood. Has English summary.

1449. STAHEL, G. The forests of Surinam. Carib. Forester 1(1): 29. Oct. 1939. 1.9622 T2C23

1450. STAHEL, G. The natural resources of Surinam. In Plants and Plant Science in Latin America, p.107-108. Waltham, Mass., Chron. Bot., 1945. 453 V58

1451. STAHEL, G. De nuttige planten van Suriname. Surinam Dept. Landbouwproefsta. B. 59, 239 p. Ref. Aug. 1944. 9.6 D95

Useful plants of Surinam. Kinds of timbers, their nomenclature, properties, and uses, p.123-164.

1452. STAHEL, G. De sawarie-noot, *Caryocar nuciferum* L., an enkele andere in Suriname in het wild groeende noten. Indische Mercur 58:689-691. Illus. Map. Nov. 6, 1935. 286.8 In2

Discusses the tree *Caryocar nuciferum* with reference to developing the nut industry in Surinam. The timber has local uses.

1453. SURINAM. AGRICULTURAL EXPERIMENT STATION. Surinam timbers. Surinam, 194-? 39 p. 99.24 D95

Short descriptions of 34 native woods and information about their use.

MEXICO

1454. ACLARACIONES sobre el consumo doméstico de carbón vegetal y leña. Méx. Forest. 19:27-28. Mar./Apr. 1941. 99.8 M57

Domestic consumption of charcoal and fuelwood.

1455. ALLOUARD, P. Les forêts et les industries forestières au Mexique. Bois et Forêts des Trop. 15:223-234. Third Q. 1950. 99.8 B632

Includes description of the government's "Integrated Units" plan. English summary.

Mexico

1456. AMERICAN WOOD PRESERVERS' ASSOCIATION. Proceedings 36-43. 1940-47. 300.9 Am3

Includes listing of wood preservation plants in Mexico and Central America.

1457. ARIES, R. S., and SERRANO, J. Summary of Mexican paper industry. *Paper Indus. & Paper World* 29(1):69-71. Apr. 1947. 302.8 P1923

After an historical review of the industry, discusses the forest resource. Table 2 gives areas and volumes of pine timber by States. Table 1 locates Mexican pulp and paper mills and estimates capacity of each.

1458. ARMOUR RESEARCH FOUNDATION, CHICAGO. *Productos forestales*. México, D. F., Banco de México, 1950. 122 p. 99.75 Ar5

The Spanish version of a report also appearing in the Foundation's Technological Study of Various Mexican Industries, item 1520 in this bibliography. Statistics are from official and commercial sources. Contents: Forest products; Lumber; Pulp and paper; Products of Destructive Distillation; Naval stores; Candelilla wax; Other forest products; Conclusion; Recommendations.

1459. ASOCIACION NACIONAL DE PRODUCTORES DE MADERAS DE PINO. *Memoria de la ... convención*, Nos. 1-3. Durango, México, 1948-50. 3 v. 99.9 C7622

Transactions of the National Association of Pine Producers include speeches presenting the viewpoint of industry, research, and government in Mexico. Lumber grading and standardization, wood utilization, forest management, forest protection, forest credit and forest administration are the principle subjects discussed.

1460. ATTOLINI, J. *Economía de la cuenca del Papaloapan*. México, D. F., Instituto de Investigaciones Económicas, 1950. 176 p. 281.14 At8E

Describes the forests; estimates resources and production, p.9-26.

1461. ATTOLINI, J. *Las especies forestales en la cuenca del Papaloapan*. *Rev. de Econ. [Mexico]* 11(11):29-34. Nov. 15, 1948. 280.8 R3293

A statistical study of forest resources in the Papaloapan region.

1462. AVILA HERNANDEZ, M. *Aspecto general del problema forestal de México*. Chapingo 24:75-76. Aug. 1948. 102 C36

1463. BAROJAS ARMINO, S. *Aprovechamiento de los recursos forestales de México*, 1-3. Méx. Dir. Gen. Forest. y de Caza B. 3(3): 6-9; 4(1):10-14; 5:13-17. May/June 1942, Jan./June 1943, Jan./June 1944. 99.9 M574

V. 3, including Pt. 1 is issued as *Boletín Bimestral*, Méx. Dir. Forest y de Caza.

Utilization of Mexico's forest resources. Pt. 1 discusses Mexico's forest economy in general; Pt. 2 reviews forest zones and areas, with summary statistics from the 1930 census, and discusses ownership of forest property; Pt. 3 concerns forest products, and summarizes again the place of timber in the national economy.

1464. BAROJAS ARMIÑO, S. *Datos relativos a la Ley del Impuesto Forestal y la reglamentación del mismo*. Méx. Dept. Forest. y de Caza y Pesca B. 1(3):23-29. Feb./Apr. 1936. 99.9 M573

Mexico's forest tax law and its enforcement.

1465. BAROJAS ARMIÑO, S. *La tributación forestal en México*. México. Dir. Gen. Forestal y de Caza. *Memoria de la primera convención nacional forestal*, p.251-265. México, D. F., 1942. 99.9 C7699

Mexico

Forest taxation. Appendices 1-7 analyze tax quotas by various products and by States. Included also are production statistics derived from the forest levy records.

1466. BARRENA, R. Zonas forestales vedadas. México. Dir. Gen. Forest. y de Caza. Memoria de la primera convención nacional forestal, p.69-77. México, D. F., 1942. 99.9 C7699

Forest reserves and national park areas.

1467. BELL, P. L., and MACKENZIE, H. B. Mexican west coast and Lower California; a commercial and industrial survey. U. S. Bur. Foreign & Dom. Com. Spec. Agents Ser. 220,340 p. Illus. 1923.

157.71 Sp3

Forest products, p.180-186, include reports on lumber, fuelwood, and dyewood.

1468. *BELTRAN, E. El problema de la conservación de los recursos naturales en México, y un proyecto para resolverlo. México, D. F., Sociedad Mexicana de Historia Natural, 1946. 15 p.

1469. *BELTRAN, E. La protección de la naturaleza. México, D. F., Secretaría de Educación Pública, (Biblioteca Enciclopédica Popular, 206). 1949. 92 p.

1470. BELTRAN, E. Los recursos naturales de México y su conservación. México, D. F., Secretaría de Educación Pública, 1946. 96 p. (Biblioteca Enciclopédica Popular 106). Libr. Cong.

1471. BENJAMIN, R. S. Green gold in Yucatán. Américas 2(9):12-15. Sept. 1950. 150.9 Am34

Concerns the lumbering operations of Alfredo Medina V., and Colonia Yucatán, his model lumber camp.

1472. BLANCO, C. E. Como explota sus bosques La Cía. Madeira de Durango, S. A. Mensajero Forest. 7(67):9-11. Sept./Oct. 1949. 99.8 M522

Plans for forest operations in the Sierra Madre area.

1473. BLANCO, C. E. La Ley Forestal y algunas dificultades que la práctica señala para cumplirla. Méx. Forest. 7:25-28. Map. Feb. 1929. 99.8 M57

Tariffs and transportation differentials in Mexico.

1474. BLANCO, G. The water supply of Mexico City: its relation to renewable natural resources. Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948:361-369. 150 In82 No.4

1475. BUENROSTRO, E. Sustitución de combustibles vegetales de uso doméstico: carbon. Méx. Dir. Gen. Forest. y de Caza. Memoria de la primera convención nacional forestal, p.117-122. México, D. F., 1942. 99.9 C7699

Charcoal production.

1476. CABALLERO, P. J. Los resultados de la preservación de maderas en los Ferrocarriles Nacionales de México. Méx. Dir. Gen. Forest. y de Caza. Memoria de la primera convención nacional forestal, p.111-115. México, D. F., 1942. 99.9 C7699

Also in Méx. Dir. Gen. Forest. y de Caza B. Bimest. 3(1):3-7. Map. Jan./Feb. 1942. 99.9 M574

Charts show tie renewals on Mexico's national railways.

1477. CAMILO, C. DEL La silvicultura y las industrias como bases para el empleo permanente de emergencia. Carib. Forester 5: 138-144. Apr. 1944. 1.9622 T2C23

Provisions which should be made to protect sources of industrial timber in Mexico from excessive exploitation, especially in time of war.

*Not examined.

Mexico

Has English summary.

1478. CARBON. Nosotros [Mexico] 1(13):35-44. July 15, 1944.
Libr. Cong.

Largely a pictorial presentation of charcoal and fuelwood exploitation.

1479. CASTELLANOS R., O. A. Principales aspectos que ofrece el problema forestal en Chiapas y su posible resolución. México, D. F., 1944. 76 p. Illus. Libr. Cong.

Thesis (Ingen. Agron.)

Reproduced from typewritten copy. Contents: Objectives of the work; Various operations in Chiapas; Exploitation of indigenous species; Reforestation; Protection problem; Conclusions.

1480. CASTRO F., F. Importancia del conocimiento de nuestros recursos forestales y de su capacidad productiva [Mexico]. Indus. Forest. 1(2):12-14. Mar. 1945. 99.8 In23

Discusses the lack of knowledge of Mexican forest resources and productive capacity.

1481. CAVE, M. S. Forest legislation in Mexico. Washington, U. S. Off. Coordinator Inter-Amer. Aff., 1945. 47 p. Ref. Pan Amer. Union Libr.

In addition to abstracting laws published in Diario Oficial, this publication summarizes the forest situation in Mexico, deriving its information from U. S. Bureau of Foreign and Domestic Commerce sources. A list of common names, scientific names, and wood uses for species mentioned in the report, is appended.

1482. CID Y BERGMAN, M. La resinación como una industria de porvenir para México. Méx. Dir. Gen. Forest. y de Caza B. Bimest. 3(2):21-24. Mar./Apr. 1942. 99.9 M574

Lists resin-producing pines and States in which they occur. Discusses the possibilities of other resin developments in addition to naval stores.

1483. CIMENTAL, C. Formación de Parques Nacionales en el Estado de Durango. Méx. Forest 8:42-44. Mar. 1930. 99.8 M57

1484. COLE, D. S. Large areas of timber land in Mexico awaiting development. Foreign Trade 4:331-333. Aug. 14, 1948. 286.8 C162

Describes timbered areas and estimates the volumes in better stands, for hardwood and pine forests. Also discusses lumber and plywood industries, and the factors limiting exploitation.

1485. COLE, D. S. Mexican processed wood products fail to obtain export market acceptance. Foreign Trade 4:520-522. Sept. 11, 1948. 286.8 C162

Discusses production and trade, and outlines steps for the improvement of Mexican forest-products industries.

1486. CONSIDERACIONES que deben guiar la formulación de un nuevo convenio de comercio entre México y los Estados Unidos de Norteamérica en lo referente a maderas. Indus. Forest. 2(12):15-21. Mar. 15, 1947. 99.8 In23

Discusses duties and tariffs.

1487. LAS COOPERATIVAS forestales y la explotación de montes comunales y ejidales. Méx. Dept. Forest. y de Caza y Pesca B. 1(1): 117-126. Sept./Oct. 1935. 99.9 M573

Forest cooperatives and the exploitation of communal and ejidal forests. Includes statistics of forest production on collective held lands and lists authorized forest cooperative societies.

1488. CORPORACIONES de defensa contra incendios de montes. Méx. Dept. Forest. y de Caza y Pesca B. 2(7): facing 96. Apr./Aug. 1937. 99.9 M573

Mexico

A map and a chart showing forest fire-fighting organizations in Mexico.

1489. COXE, G. R. Pulp and paper industry -- Mexico. U. S. Off. Internat'l. Trade, World Trade in Commod. Pt. 6, Pulp & Paper 5(27), 7 p. Oct. 1947. 157.54 In236

1490. CREACION de reservas forestales de la fauna sylvestre y zonas de reforestación en la frontera con los Estados Unidos del Norte. Méx. Dept. Forest. y de Caza y Pesca B. 1(2):159-181. Nov. 1935/Jan. 1936. 99.9 M573

1491. DUPRE CENICEROS, E. The forest problem of Mexico. Inter-Amer. Conf. on Conserv. of Renewable Nat. Resources, Proc. 1948:418-425. 150 In82 No.4

In Spanish, Méx. Dir. Gen. Forest. y de Caza B., Jan./Dec. 1949:3-15. 1950. 99.9 M574

Botanical-geographical regions of vegetation; Forest areas; Influence of forest resources on Mexico's economy; People who make their living from these resources; Industries that depend on forest resources; Causes of deforestation; Measures taken by Mexico to preserve its forest resources; Inventory plans.

1492. DUPRE CENICEROS, E. Los recursos forestales de México y su conservación. Chapingo 21:37-41; 22:19-20,29. May-June 1948. 102 C36

Estimates the forest area and tabulates production over the period 1941-45.

1493. DURLAND, W. D. Magnífico porvenir de los bosques del occidente de México. Méx. Forest. 7:211-212. Oct. 1929. 99.8 M57

1494. ECONOMIA de los Estados: Campeche. Rev. Econ. 4(12):22-32. Dec. 20, 1941. 280.8 R3293

Over 60 percent of the total land area is forested. In the section on forest products, p.26-27, chicle exploitation receives the fullest treatment.

1495. ESCUDERO, A., and SALAS, D. Estadística forestal del Estado de Jalisco. Méx. Forest. 3:4-9. Jan. 1925. 99.8 M57

1496. ESPEJEL DIAZ, L. Cual es y qué significa la riqueza forestal de Chihuahua. B. Forest. 2(21):14-20,24; (22):4-5,17-18,20-21; (24):10-11,24. Aug. 1950, Oct. 1950. 99.8 B633

Nos. 21 & 22 dated August. No. 22 presents developments in the lumber industry of Chihuahua, with the following charts: Schematic drawing of roads constructed for the lumber industry of Chihuahua; Laborers and families supported by the lumber industry; Investment in the lumber industry; Taxes paid by the lumber industry to the national government, to the State and to the municipality; Taxes and annual expenditures.

1497. FERNANDEZ R., J. Breves apuntes sobre la industria resinera. Méx. Forest. 23:28-34,51-54. Mar.-Sept. 1945. 99.8 M57

1498. FERRIZ SAVINON, A. Un riqueza forestal no explotada en México. Méx. Forest. 1(11/12):10-11. Nov./Dec. 1923. 99.8 M57

Tannin sources, an unexploited forest resource in Mexico.

1499. FLEMING, G. R. Timbers and trade of Mexico. Wood [London] 4:341-345. Aug. 1939. 99.82 W855

Includes a table of information about Mexico's principal timbers.

1500. FOGLIO MIRAMONTES, F. Geografía económica agrícola del Estado de Michoacán. México, D. F., Secretario de Agricultura y Fomento, 1936. 3 v. & atlas. 278.14 F68

V. 2, Sec. 2, Forests. Analyzes the area resource, chief tree species, degree of exploitation, and products.

Mexico

1501. FOREMAN, W. J. Changing land tenure patterns in Mexico. *Land Econ.* 26:65-77. Feb. 1950. 282.8 J82

Includes discussion of land reform legislation affecting ownership and use of woodlands.

1502. GAITAN, G. Los incendios de los bosques. *Méx. Forest.* 6: 218-223. Nov. 1928. 99.8 M57

Further statements on forest fire policy, by the same author, in 8: 145-151. July 1930.

Gives the causes of forest fires in Mexico and discusses the general forest economy in relation to fires. An analysis of the article in English, by A. N. Weber, appears in *J. Forestry* 27:433-435. Apr. 1929. 99.8 F768

1503. GALICIA, D. F. Los Parques Nacionales de México. *Méx. Dept. Forest. y de Caza y Pesca* B. 3(10):75-85. Mar./May 1938. 99.9 M573

Lists the parks, gives area in hectares, and notable characteristics, such as virgin forests.

1504. GALICIA, D. F. Trabajos preliminares de ordenación de bosques, propiedad de indígenas tarahumaras. *Méx. Dir. Gen. Forest y de Caza y Pesca* B. Bimest. 3(2):12-17. Map. Mar./Apr. 1942. 99.9 M574

A preliminary management plan applied to collectively-held lands.

Further developments in this project are reported in *Indus. Forest* 1(1)*, (2):23-24; (3):26-29; (4)*. Jan.-Dec. 1945. 99.8 In23

1505. GARCIA DIAZ, E. Algunas consideraciones sobre aprovechamientos en México de productos forestales intermedios, principalmente para ferrocarriles. *Méx. Forest.* 6:4-6. Jan. 1928. 99.8 M57

1506. GARCIA DIAZ, E. Una explotación forestal en Méjico. *Montes* 3:148-155. Illus. Mar./Apr. 1947. 99.8 M763

The history of La Gavia forest operations in the State of Mexico, producing commodities ranging from lumber and pulpwood to fuel-wood. Estimates existing volumes in pine and fir and discusses regulation of the cut.

1507. GARCIA DIAZ, E. Los grandes daños que producen los "ocoteros" en los pinares de la República. *Méx. Forest.* 11:58-61. Mar. 1933. 99.8 M57

Naval stores practices in Mexico, particularly excessive wounding practices.

1508. GARCIA DIAZ, E. Interés económico de la restauración de la zona forestal mexicana. *Méx. Forest.* 2:94-97. Nov. 1924. 99.8 M57

1509. GARCIA MARTINEZ, J. Desarrollo y utilización de los recursos forestales de México. *Carib. Forester* 5:124-135. Apr. 1944. 1.9622 T2C23

Similar title in *Rev. Agr. [Guatemala]* (ser.2) 2:410-418. July/Dec. 1946. 8 G934

Separate, with title Desarrollo y utilización de los recursos forestales en los países americanos. México, D. F., Segunda Conferencia Inter-Americanica de Agricultura, 1944. 22 p. 99.75 G16

The development and utilization of Mexico's forest resources, with estimates of wood production, forest cover, and number of trees per hectare. English summary.

1510. GARCIA MARTINEZ, J. La explotación de carbón vegetal en la región central de la República. *Méx. Dept. Forest. y de Caza y Pesca* B. 3(11):83-103. Maps. June/Aug. 1938. 99.8 M573

*Not examined.

Mexico

Charcoal operations in the central region of Mexico. Gives the forest resource in 10 States and the Distrito Federal; estimates production by municipalities. Appended material tabulates consumption of charcoal and fuelwood.

1511. GARCIA MARTINEZ, J. La explotación de los pinos en México. Méx. Dept. Forest. y de Caza y Pesca B. 4(12):183-229. Map. Sept./Nov. 1938. 99.9 M573

Also published separately (99.22 M572),, and in Méx. Forest. 16:63-77; 17:9-26. Oct. 1938-Mar. 1939. 99.8 M57

A report on the composition, distribution, and utilization of Mexico's pine forests. Much of its information is in tabular form. Contents: Pine species in the Republic and their classification; Geographic distribution of pines in Mexico; Area covered by pine in the Republic; General inventories; Possibility of pine-forest production; Forest production of all pine woodlands in the Republic; Prices and value of pine products.

1512. GARCIA MARTINEZ, J. La legislación forestal como base de una mejor administración de los recursos naturales de los bosques de nuestro país. Méx. Dir. Gen. Forest. y de Caza. Memoria de la primera convención nacional forestal, p.233-242. México, D. F., 1942. 99.9 C7699

Also in Méx. Dir. Gen. Forest. y de Caza B. 2(4):19-36. Nov./Dec. 1941. 99.9 M574

1513. GARCIA MARTINEZ, J. Las superficies forestales de la República. Méx. Dept. Forest. y de Caza y Pesca B. 3(8):127-140. Map. Sept./Nov. 1937. 99.9 M573

Delineates forest areas by climatic zone and by altitude zone, with some mention of the dominant vegetation in the various areas. The map of forest zones is one often reproduced in other writings about Mexico's forest resources.

1514. GAY, E. C. The naval stores industry in Mexico. Gamble's Internat'l. Naval Stores Ybk. 1930/31: 111-112. 1930. 309 G14N

Mentions seven species of pine of which four produce turpentine. Important features of the law regulating ownership or leasing of timber lands in Mexico are given.

1515. GENERAL MOTORS CORPORATION. GENERAL MOTORS OVERSEAS OPERATIONS. Economic survey of Mexico. New York, 1942. 131 p. Maps. Libr. Cong.

Forestry, p.19-22. Table 2 gives forest products production estimates, 1937-41. Figure 4 is a map of timber areas.

1516. GERARD, F. Las explotaciones de maderas tropicales; eventuales económicas a que se encuentran expuestas. Indus. Forest. 1(2):10-11. Mar. 1945. 99.8 In23

Expected developments and some problems realized in Mexico, with regard to exploiting tropical timbers.

1517. GERARD, F. La industria de maderas no coníferas y nuestro comercio exterior. Indus. Forest. 1(3):10-12. July 1, 1945. 99.8 In23

The Mexican hardwood industry and foreign trade.

1518. GERARD, F. La industria maderera dentro de la economía general de México. Indus. Forest. 1(1):8-11. Jan. 1945. 99.8 In23

The place of the lumber industry in Mexico's economy.

1519. GILL, T. H. Los recursos forestales de México. Timberman 31(10):37-38. Aug. 1930. 99.81 T484

Spanish version, Méx. Forest. 9:22-27. Feb. 1931. 99.8 M57

Historical background; early forest law; railroad and mining expansion; forest reserves and forest zones; business outlook.

Mexico

1520. GODWIN, F., NELSON, M. E., and VILLASEÑOR, R. Report to the Banco de México, S. A., México, D. F. Technological audit of selected Mexican industries with industrial research recommendations. Chicago, Armour Res. Found., 1946. 208 p. 280.14 Ar5

Ch. 5, Forest Products, divided as follows: Mexico's forests; Lumber; Cellulose, pulp and paper; Destructive distillation; Naval stores; Candelilla wax; Other Mexican forest products.

1521. GOMEZ ROMERO, F. Breve comentario a una excursión por el Norte de la Republica [Mexico]. Chapingo 16, p.16-21,32-33. Aug.1947. 102 C36

To observe lumbering operations in Durango.

1522. GOMEZ Y GUTIÉRREZ, A. Datos valiosos sobre la reforestación en México. Mensajero Forest. 8(74):4-5,16-17. June 30, 1950. 99.8 M522

Reviews the history of forest destruction in México and outlines program for reforestation, with cost estimates.

1523. GONZALEZ DE LA CADENA, E. Sugestiones para una mejor organización de los nucleos campesinos del país, con el fin de que obtengan la mayor utilidad en la explotación de sus montes, preferentemente en relación con el crédito forestal y la eliminación de intermediarios. Méx. Dir. Gen. Forest y de Caza. Memoria de la primera convención nacional forestal, p.163-169. México, D. F., 1942. 99.9 C7699

Suggestions for better rural organizations to obtain fuller wood utilization, preferably in relation to forest credit and elimination of intermediate marketing agents.

1524. GONZALEZ GALLARDO, A. The forest situation and forest problems of Mexico; statement before the Forestry Committee. Food & Agr. Organ. of the United Nations, Doc. of the Conf., 1st sess., 200, 9 p. Oct.31, 1945. 389.9 F735D

1525. GUERRERO, Q. A. La nueva ley forestal y la industria de la madera. Mensajero Forest. 6(54):1,10-11,13. Mar./Apr.1948. 99.8 M522

Mexico's new forest law and the lumber industry.

1526. GUERRERO, S. Conveniencia de que el Estado controle técnica y economicamente la producción forestal. Méx. Dept. Forest. y de Caza y Pesca B. 2(7):121-133. Apr./Aug.1937. 99.9 M573

State controls over forest operations.

1527. GUERRERO, S. Estudio económico y jurídico sobre la propiedad forestal en Mexico. Problemas Agr. de Méx. 1:199-215.

1934. 281.9 P25

An economic and legal study of forest ownership in Mexico.

1528. GUERRERO, S., and CASTRO, F. Proyecto de ordenación del bosque comunal del pueblo de Capacuaro [Michoacán]. Mex. Dept. Forest. y de Caza y Pesca B. 1(4):245-321. Illus. Map. May/Aug. 1936. 99.9 M573

A management plan for a communal forest, oriented toward cross-tie and naval stores production.

1529. GUTIERREZ, I. Protección a los bosques de la Republica [Mexico]. Soc. Mex. Geog. y Estad. B. 42:88-176. May 1930. 516 M57B

Chiefly a discussion of fire protection problems. Reviews forest fires in Mexico's history.

1530. GUTIERREZ, R. J. Lumber opportunities in Mexico. Timberman 44(6):72. Apr.1943. 99.81 T484

1531. GUTIERREZ ROLDAN, F. Aspectos de la industria forestal [Mexico]. Indus. Forest. 1(1):5-6. Jan.1945. 99.8 In23

Mexico

1532. HAJJAR, F. Pulp and paper industry -- Mexico. U. S. Off. Internat'l. Trade, World Trade Commodity Pt. 6., Pulp & Paper 5(27), 7 p. Oct. 1947. 157.54 In236

1533. INTER-AMERICAN DEVELOPMENT COMMISSION. A statement of the laws of Mexico in matters affecting business in its various aspects and activities. Washington, 1948. 161 p. Libr. Cong.

Forestry legislation, p.122-123.

1534. JOERNS, A. Doing business in Mexico. Timberman 45(9): 72,74. July 1944. 99.81 T484

Briefly discusses government, taxes, labor, transportation and equipment from the viewpoint of the lumberman considering forest operations in Mexico.

1535. JOERNS, A. Mexico's timber resources. Timberman 43(4): 46,48,50. Map. Feb. 1942. 99.81 T484

Discusses factors affecting timber operations in Mexico, such as legislation and transportation. Names the commercial tree species. A map delineates areas where tropical hardwoods, temperate hardwoods and coniferous species occur.

1536. JUAREZ HERRERA, R. Cuál es el lugar en que conviene instalar una usina de destilación de maderas y sus derivas en México, con capacidad de 100,000 toneladas anuales de maderas de encino. Méx. Forest. 25:51-54,64-68. July-Dec. 1947. 99.8 M57

Possibilities of establishing wood distillation operations in Mexico, utilizing oak. Discusses localities in which such operations are most likely to succeed.

1537. JUAREZ HERRERA, R. Cuáles son los caminos que debe seguir la economía forestal para llegar a obtener un mejor redimimiento de los bosques de México. Méx. Forest. 22:33-36. Mar./Apr. 1944. 99.8 M57

Meeting wood requirements by better utilization.

1538. JUAREZ HERRERA, R. Cuánto pierde nuestro país con no destilar las maderas para atender su consumo doméstico de metileno, acetona, aceites pesados de alquitrán y cuanto por los imperfectos métodos de elaboración del carbón. Méx. Forest. 24:69-71. Oct./Dec. 1946. 99.8 M57

Possibilities of developing the products of destructive distillation in Mexico.

1539. JUAREZ HERRERA, R. Estudio dasonómico formulado para regir los aprovechamientos del bosques ejidal y comunal de Santiago Cuautengo, Amecameca, México. Méx. Forest. 20:77-84; 21:7-22. Oct./Dec. 1942-Jan./Feb. 1943. 99.8 M57

A working plan for ejidal and communal forest areas includes discussion of economic factors affecting such areas.

1540. JUAREZ HERRERA, R. Plan de trabajos de investigación sobre el desarrollo moderno de la utilización de las maderas. Méx. Forest. 22:16-18. Jan./Feb. 1944. 99.8 M57

Plans for studying wood utilization, applied to Mexico's forests.

1541. KATZE, M. B. Turpentine production in Mexico. Timberman 24(10):152,154. Aug. 1923. 99.81 T484

Discusses operations, markets, and labor.

1542. KESHEN, A. S. "South of the border." Government dominates Mexican lumber industry. South. Lumber J. 53(11):14,16,108. Nov. 1949. 99.81 So8

Discusses government controls and mentions some of the larger timber operations in Mexico.

1543. LANG, D. M. Report on the lumber industry and forest conditions in Mexico. Albuquerque?, U. S. Forest Serv., Sowest. Reg.,

Mexico

1941. 36 p. 1.9621 R3R29

Contents: The pine region of Mexico; Extent of present lumber industry; The future of the lumber industry; The forest organization; Miscellaneous notes on rate of growth, size of trees, etc.; Maximum sizes and utilization; Precipitation; Reproduction conditions; Stumpage rates; Freight rates; Miscellaneous cost and selling price data; Defect in Mexico pines; Insect conditions in Mexico; The turpentine industry in Mexico; The hardwood stands of Mexico; Conclusions.

1544. LATENT forest riches [Mexico]. Mex.-Amer. Rev. 14(5):14-15,66. May 1946. 287 M572

Possibilities and recent developments of forest industries.

1545. LENZ, H. La reforestación como base de las industrias del papel. Méx. Forest. 22:41-48. May/June 1944. 99.8 M57

Reforestation as a basis for the pulp and paper industry in Mexico.

1546. LEZAMA MICHEL, R. El abastecimiento de durmientes y maderas para los ferrocarriles del país. Méx. Forest. 22:1-2.

Jan./Feb.1944. 99.8 M57

Supplying ties and timbers to the National Railroads.

1547. LOOCK, E. E. M. The pines of Mexico and British Honduras Union of So. Africa Dept. of Forestry B. 35,244 p. Ref. Illus. Maps. 1950. 99.9 So84

Report on a reconnaissance made in 1947, in relation to seed sources for South African plantings. Contents: South African aspects; Regional description of Mexico and British Honduras; Description of the forests of Mexico and British Honduras by physiographic divisions; Forestry practice in Mexico and British Honduras; Systematics of Mexican and British Honduras pines.

1548. LUMBER markets and timber resources of Mexico. U. S. Bur. Foreign & Dom. Com., Com. Rpt. 51:1242-1249. Mar.3,1921. 157.7 C76D

Also in West Coast Lumberman 39(467):34,43-44. Mar.15,1921.

99.81 W52; Pan Amer. Union B. 52:325-338. Apr.1921. 150.9 M76

1549. MCGILLICUDDY, B. H. Observations [on timber resources] in Mexico. Timberman 45(10):80,82. Aug.1944. 99.81 T484

1550. MCMANAMA, G. P. Lumbering in Yucatan. Timberman 77 (8):53-59,99. Aug.1950. 99.81 W52

The operations of A. Medina V.

1551. McMULLEN, W. H. Lumber possibilities of Mexico. Timberman 22(3):39. Jan.1921. 99.81 T484

1552. MADERAS finas. Rev. Econ. 5(4):7-8. Apr.27,1942.

280.8 R3293

Lumbering operations and marketing timber in Quintana Roo.

1553. MARES ESPARZA, H. En los bosques de Chihuahua. Todo [Mexico] 825:43-45. Illus. June 30,1949. Pan Amer. Union Libr.

Lumbering in the forests of Chihuahua.

1554. MARTINEZ BACA, R. Crédito y conservación forestal. Méx. Dir. Gen. Forest y de Caza. Memoria de la primera convención nacional forestal, p.267-281. México, D. F., 1942. 99.9 C7699

Considers also, private and public forests, forest cooperatives, production, and factors affecting production.

1555. MARTINEZ GARCIA, J. Inventarización forestal de Campeche [Mexico]. Chapingo 4(32):357-358. Aug.1949. 102 C36

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1556. MELL, C. D. Timber conditions in Mexico. Pulp & Paper Mag. Canada 43:775. Sept.1942. 302.8 P96

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1557. MEXICO. COMISION FEDERAL DE PLANIFICACION ECONOMICA. El porvenir de los bosques en Mejico. Maderil 16(188):15, 25-27. Feb.1944. 99.82 M26

The future of Mexico's forests, particularly in relation to world supply and demand for forest products.

1558. MEXICO. DEPT. FORESTAL Y DE CAZA Y PESCA. OF. ECONOMIA Y ESTADISTICA. La producción forestal ... 1933-35. México, D. F., 1936-38? 3 v. 99.9 M5732E

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Forest taxation records by States and by land-ownership types. Includes tables of forest products production, species cut, and the amount of tax imposed.

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1564. MEXICO. DIRECCION GENERAL FORESTAL Y DE CAZA. Memoria de la primera convención nacional forestal. México, D. F., 1942. 313 p. 99.9 C7699

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1571. MORAL, C. DEL La situación forestal en México. Problemas Agr. de Méx. 1:167-197. 1934. 281.9 P25
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1572. MORENO VILLANUEVA, A. La multa forestal. Indus. For. est. 1(4):2-3. Sept.1945. 99.8 In23
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1573. MULLER, J. L. Forest resources and lumber economy of Mexico. U. S. Bur. Foreign & Dom. Com., Indus. Ref. Serv. Pt.6, Forest Prod. 3(16),19 p. Ref. Maps. Oct.1945. 157.54 In236
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1654. GENTRY, H. S. Notes on the vegetation of Sierra Surotato in northern Sinaloa. *Torrey Bot. Club. B.* 73:451-462. Sept./Oct. 1946. 451 T63B

1655. GENTRY, H. S. Río Mayo plants; a study of the flora and vegetation of the valley of the Río Mayo, Sonora. *Carnegie Inst. of Washington P.* 527,328 p. Maps. 1942. 456.1 G28

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1656. GENTRY, H. S. Sierra Tacuichamona -- a Sinaloa plant locale. *Torrey Bot. Club. B.* 73:356-362. July/Aug. 1946. 451 T63B

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1657. GONZALEZ ORTEGA, J. Amapa prieta, *Tabebuia palmeri*, Rose (Estado de Sinaloa). *Méx. Forest.* 4:31-35. Mar./Apr. 1926. 99.8 M57

1658. GONZALEZ ORTEGA, J. Arellano o palo colorado [*Brasilettia platyloba*]. *Méx. Forest.* 4:84-85. July/Aug. 1926. 99.8 M57

1659. GONZALEZ ORTEGA, J. Candelon, *Rhizophora mangle L.*; guacima [*Guazuma ulmifolia*]. *Pro-Cult. Region. B.*, [Mazatlán] 38-41:14-18. Sept./Dec. 1934. 276.4 B63

1660. GONZALEZ ORTEGA, J. El ebano de México [*Libidibia sclerocarpa*]. *Méx. Forest.* 4:21-23. Jan./Feb. 1926. 99.8 M57

1661. GONZALEZ ORTEGA, J. Ebano [*Libidibia sclerocarpa*]; arellano o palo colorado [*Brasilettia platyloba*]; amapas [*Tabebuia spp.*]; tecomate ayele o guaje cirial, *Crescentia alata*, H. B. K.; guayacan [*Guaiacum coulteri*]; and haba, *Hura polyandra*, Baill. *Pro-Cult. Region. B.*, [Mazatlán] *Bot. Sec.*, 33:3-12. Illus. Mar. 1934. 276.4 B63

Chiefly botanical description, but includes notes on distribution, rate of growth, vernacular names, and illustrations of the trees.

1662. GONZALEZ ORTEGA, J. Guayacan [*Guaiacum coulteri*]. *Méx. Forest.* 5:139-141. Nov./Dec. 1927. 99.8 M57

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1663. GONZALEZ ORTEGA, J. La guázima [*Guazuma ulmifolia*]. *Méx. Forest.* 12:166-168. Sept. 1934. 99.8 M57

1664. GONZALEZ ORTEGA, J. El haba o habilla de San Ignacio [*Hura polyandra*]. *Méx. Forest.* 5:8-11. Jan./Feb. 1927. 99.8 M57

1665. GONZALEZ ORTEGA, J. Tecomate, ayele o guaje cirial [*Crescentia alata*]. *Méx. Forest.* 4:98-100. Sept./Oct. 1926. 99.8 M57

1666. HARPER, R. M. Useful plants of Yucatan. *Torrey Bot. Club B.* 59:279-288. May 24, 1932. 451 T63B

Selection and grouping of economic plants from P. C. Standley's *Flora of Yucatan*. Includes timber trees.

1667. HERRERA, H. Monografía del Río Hondo (Quintana Roo). *Soc. Mex. de Geog. y Estadís. B.* 56:209-241. Ref. Mar./Apr. 1942. *Amer. Geog. Soc. Libr.*

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1668. *HOFFMANN, C. C. Investigaciones en las selvas vírgenes del sur de la Península de Yucatán. *Inst. Higiene [México, D. F.] B.*, Ser. 2, 2:227-264. Jan. 1936.

The author visited the peninsula to conduct medical investigations. He describes the vegetation and gives an account of chicle gathering.

1669. JOERNS, A. The commercial timbers of Mexico. Chicago, Author, 1944. 21 p. 99.76 J59

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1670. KETELHUT, F. Proyecto sobre explotación lucrativa del eucalipto en México. Méx. Forest. 24:76-79. Oct./Dec. 1946. 99.9 M57
1671. LAMB, W. H. The pines of Mexico. South. Lumberman 108 (1422):143-144. Map. Dec. 23, 1922. 99.81 So82
Estimates distributions, also shown on a sketch map, and discusses species.
1672. LEAVENWORTH, W. C. A preliminary study of the vegetation of the region between Cerro Tancitaro and the Rio Tepalcatepec, Michoacan, Mexico. Amer. Midland Nat. 36(1):137-206. Illus. Map. July 1946. 410 M58
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1673. LEOPOLD, A. S. Vegetation zones of Mexico. Ecology 31: 507-518. Ref. Map. Oct. 1950. 410 Ec7
Designates the boreal forest associations, pine-oak forest, cloud forest, rain forest, tropical evergreen forest, and tropical deciduous forest. The map indicates climax types rather than the actual vegetation conditions of the present.
1674. LESUEUR, H. The ecology of the vegetation of Chihuahua, Mexico, north of parallel twenty-eight. Tex. U. P. 4521, 92 p. Illus. Maps. June 1, 1945. 463.89 L56
1675. LOOCK, E. E. M. Los bosques de pino de México; observaciones generales. Mensajero Forest. 5(47):7, 9-10. June 30, 1947. 99.8 M522
General observations of Mexico's pine forests by a South African forester.
1676. LUNDELL, C. L. Preliminary sketch of the phytogeography of the Yucatan peninsula. Carnegie Inst. of Washington, Contrib. to Amer. Archaeol. 2(12):253-320. Ref. Oct. 1934. 500 C21C
Defines major vegetation divisions and lists tree species noted in various plant associations.
1677. MARTÍNEZ, M. Los Abies mexicanos. Méx. Inst. de Biol. An. 19:11-104. 1948. 442.9 M57
1678. MARTÍNEZ, M. El ahuehuete (*Taxodium mucronatum* Ten.) Méx. Inst. de Biol. An. 21:25-82. Ref. 1950. 442.9 M57
1679. MARTÍNEZ, M. Arbol del balsamo [*Myroxylon balsamum*]. Méx. Dir. Estud. Biol. B. 3(3):49-51. May 1926. 516 M575
1680. MARTÍNEZ, M. Catálogo de nombres vulgares y científicos de plantas mexicanas. México, D. F., 1937. 552 p. Ref. 452.14 M362
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1681. MARTÍNEZ, M. Los Cupressus de México. Méx. Inst. de Biol. An. 18(1):71-149. 1947. 442.9 M57
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1682. MARTÍNEZ, M. Los Juniperus mexicanos. Méx. Inst. de Biol. An. 17(1/2):3-128. 1946. 442.9 M57
1683. MARTÍNEZ, M. Picea chihuahuana. Méx. Inst. de Biol. An. 19:393-405. 1948. 442.9 M57
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Ediciones Botas, 1948. 361 p. Illus. Maps. 456.1 M36Pi

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Méx. Inst. de Biol. An. 16, 352 p. Maps. 1945. 442.9 M57

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1685. MARTINEZ, M. *Plantas útiles de México*. Ed. 2. México, Ediciones Botas, 1936. 400 p. Ref. 456.1 M36

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1686. MARTINEZ, M. *Las Pseudotsugas de México*. Méx. Inst. de Biol. An. 20:129-184. Map. 1949. 442.9 M57

1687. MARTINEZ, M. *Los recursos forestales en las regiones del secano de México*. Méx. Forest. 4:1-10. Illus. Jan./Feb. 1926. 99.8 M57

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1691. MEYER, H. A., and TREVINO SALDANA, C. Estudio sobre la constitución normal y el crecimiento de la bosques vírgenes de la serranía del Estado de Puebla. Méx. Dept. Forest. y de Caza y Pesca B. 2(6):165-222. Illus. Jan./Mar. 1937. 99.9 M573

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1693. MIRANDA, F. Datos sobre la vegetación en la cuenca alta del Papaloapan. Mex. Inst. de Biol. An. 19:333-364. 1948. 442.9 M57

1694. MIRANDA, F. Estudios sobre la vegetación de México, 1-4. Méx. Inst. de Biol. An. 12:569-614; 13:53-70, 417-459; 14:407-421. 1941-43. 442.9 M57

1, La vegetación de los cerros al sur de la Meseta de Anáhuac, el Cuajiotla; 2, Observaciones preliminares sobre la vegetación de la región de Tapachula, Chiapas; 3, Notas generales sobre la vegetación del s. o. del Estado de Puebla, especialmente de la zona de Itzocan de Matamoros; 4, Algunas características de la vegetación y de la flora en la zona de Acatlán, Pue.

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1695. MIRANDA, F. Estudios sobre la vegetación de Mexico. V. Rasgos de la vegetación en la Cuenca del Río de las Balsas. Soc. Méx. de Hist. Nat. Rev. 8:95-114. Ref. Dec. 1947. 516 So15

1696. MIRANDA, F. El genero *Nyssa* en Mexico. Méx. Inst. Biol. An. 15:369-374. 1944. 442.9 M57

1697. MIRANDA, F. Observaciones botánicas en la región de Tuxtepec, Oax., con notas sobre plantas útiles. Méx. Inst. de Biol. An. 19:105-136. 1948. 442.9 M57

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1699. MULLER, C. H. Vegetation and climate of Coahuila, Mexico. Madroño 9:33-57. Apr. 1947. Ref. 450 M26

1700. NELSON, E. W. Lower California and its natural resources. Natl. Acad. Sci. Mem. 16:1-194. 1922. Ref. Map. 500 N21

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1701. NELSON, E. W., and GOLDMAN, E. A. Mexico. In Naturalist's guide to the Americas, p.574-596. Ref. Map. Baltimore, Williams & Wilkins, 1926. 409 Ec7

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1702. OCHOTERENA, I. Esquemas biotípicos y simecias características de las regiones geográfico-botánicas de México. Méx. Inst. Biol. An. 8:463-597. Illus. Dec. 1937. 442.9 M57

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1703. QUEVEDO, M. A. DE Exploración forestal y de Caza y pesca en el sureste del Estado de Veracruz. Méx. Dept. Forest. y de Caza y Pesca B. 3(11):1-5. June/Aug. 1938. 99.9 M573

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Sept./Nov. 1937. 99.9 M573

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1708. RAMIREZ CANTU, D. Notas generales sobre la vegetación de la Sierra de Tepoztlán, Morelos. Méx. Inst. de Biol. An. 20:189-228. Ref. 1949. 442.9 M57
1709. RECORD, S. J. The "palo prieto" of west central Mexico. Trop. Woods 14:8-12. June 1928. 99.08 Y1Tr
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1710. REICHE, K. Die vegetationsverhältnisse in der umbgebung der hauptstadt von Mexiko. Bot. Jahrb. Beibl. 58(129),116 p. Illus. Dec.1,1922. 450 En3B
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1711. REKO, B. P. Nutz-und edelhölzer Mexikos. Tropenpflanzer 25:16-22,52-56. Jan.-Apr.1922. 26 T76
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1712. RIVERA MORALES, I., and MIRANDA, F. Nombres vulgares de plantas en el S. O. del Estado de Puebla. Méx. Inst. Biol. An. 13: 493-498. 1942. 442.9 M57
1713. ROLDAN, A. Cedro blanco (*Cupressus thurífera*). Méx. Forest. 2:11-14. Jan./Feb.1924. 99.8 M57
1714. ROLDAN, A. Cultivo y explotación del nogal [*Carya*] aprovechando nuestras nogaleras espontáneas. Méx. Forest. 3:30-32. Feb. 1925. 99.8 M57
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1715. ROLDAN, A. El Liquidambar [*L. styraciflua*]. Méx. Forest. 11:85-87. Apr.1933. 99.8 M57
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1717. RUSSELL, A. *Conocarpus erecta* (buttonwood, Zaragoza-mangrove), a new domestic source of tannin. Chemurg. Digest 2:27-29. Feb.27,1943. 381 N213Na
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1724. SHREVE, F. Observations on the vegetation of Chihuahua. Madroño 5:1-13. Ref. Jan.1939. 450 M46

1725. SHREVE, F. The vegetation of the Cape Region of Baja California. Madroño 4:105-113. Ref. Map. Oct.1937. 450 M26

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1726. SOSA, A. H. Algunas consideraciones sobre el Juníperus de México. Méx. Forest. 13:117-122. Nov./Dec.1935. 99.8 M57

1727. SOSA, A. H. Los bosques de Colima. Méx. Forest. 13:65-70. July/Aug.1935. 99.8 M57

1728. SOSA, A. H. Los bosques de Huitzilac y las lagunas de Zem-pala en el Estado de Morelos. Méx. Forest. 13:39-45. May/June 1935. 99.8 M57

1729. SOSA, A. H. Los bosques de la "Malinche". Méx. Forest. 5:91-96. Sept./Oct.1927. 99.8 M57

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1730. SOSA, A. H. Los bosques de la Tenería, Estado de Guerrero Protec. a la Nat. 1(6/7):26-31. June/July 1936. 279.8 P94

1731. SOSA, A. H. Los bosques de Zacualtipan, Estado de Hidalgo. Méx. Dept. Forest. y de Caza y Pesca B. 1(1):173-183. Sept./Oct. 1935. 99.9 M573

1732. SOSA, A. H. Los bosques del Valle de Bravo. Méx. Forest. 14:11-17. Jan./Feb.1936. 99.8 M57

1733. SOSA, A. H. Los bosques ejidales de Tequexquipan, Estado de México. Méx. Forest. 13:19-22. Mar./Apr.1935. 99.8 M57

1734. SOSA, A. H. En la inexplorada "Malinche." Méx. Forest. 7:177-181. Sept.1929. 99.8 M57

1735. SOSA, A. H. Expedicion al Parque Nacional Ixta-Popo, Tlax. Méx. Forest. 19:115-120. Nov./Dec.1941. 99.8 M57

1736. SOSA, A. H. Exploración forestal en el litoral del Estado de Colima. Méx. Dept. Forest. y de Caza y Pesca B. 4(14):183-207. Illus. Mar./May 1939. 99.9 M573

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1738. SOSA, A. H. Exploración forestal en la región de Rincón de Romos, Estado de Aguascalientes. Méx. Forest. 14:84-90. Nov./Dec. 1936. 99.8 M57

1739. SOSA, A. H. Exploración forestal en la ruta Matachic -Mesa del Correo, Estado de Chihuahua. Méx. Dept. Forest. y de Caza y Pesca B. 4(12):233-260. Sept./Nov.1938. 99.9 M573

1740. SOSA, A. H. Importancia de la geología en la carrera de ingeniero civil. Méx. Dept. Forest. y de Caza y Pesca B. 2(6):233-249. Illus. Jan./Mar.1937. 99.9 M573

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1741. SOSA, A. H. Las montañas Tequila Jalisco. Méx. Forest. 12:114-119. Illus. 1934. 99.8 M57

Includes forest types.

1742. SOSA, A. H. El Parque Nacional "Alexjandro de Humboldt" y región de Taxco de Alarcon, Estado de Guerrero. Méx. Dept. Forest. y de Caza y Pesca, B. 4(15):241-289. Illus. June/Aug. 1939. 99.9 M573

Describes and illustrates the forests in the Alexander Humboldt National Park. Discusses forest economy and exploitation in the Taxco region.

1743. SOSA, A. H. El Parque Nacional "Chacahua" en el Estado de Oaxaca. Méx. Dept. Forest. y de Caza y Pesca B. 3(8):263-298. Sept./Oct. 1937. 99.9 M573

1744. SOSA, A. H. El Parque Nacional Cumbres del Ajusco. Méx. Forest. 16:31-35. Apr./June 1938. 99.8 M57

1745. SOSA, A. H. El Parque Nacional del Desierto de los Leones. Méx. Forest. 18:25-31. Mar./Apr. 1940. 99.8 M57

1746. SOSA, A. H. El Parque Nacional "Nauhcampateptl." Méx. Dept. Forest. y de Caza y Pesca B. 2(7):269-292. Illus. Apr./Aug. 1937. Illus. 99.9 M573

1747. SOSA, A. H. Proyecto del Parque Nacional "Río Blanco-Barranca de Metlac," Estado de Veracruz. Méx. Dept. Forest. y de Caza y Pesca B. 3(10):187-222; (11):181-234. Mar.-Aug. 1938. 99.9 M573

1748. SOSA, A. H. La Sierra de Puebla. Méx. Forest. 9:119-125. June 1931. 99.8 M57

1749. SOUZA NOVELO, N. Apuntes relativos a la flora de Yucatán (1942). Mérida, Instituto Técnico Agrícola Henequenero, 1945. 73 p. 456.1 So8A

Lists tree species and gives native names.

1750. STANDLEY, P. C. Flora of Yucatan. Chicago Mus. of Nat. Hist., Bot. Ser. 3:157-492. Sept. 11, 1930. 500 C432B

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1751. STANDLEY, P. C. Las relaciones geográficas de la flora mexicana. Méx. Inst. Biol. An. 7:9-16. 1936. 442.9 M57

1752. STANDLEY, P. C. Trees and shrubs of Mexico. U. S. Natl. Herb. Contr. 23, 1721 p. Ref. Oct. 11, 1920-Nov. 15, 1926. 450 C76

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1753. TAYLOR, W. P., and others. The Sierra del Carmen in northern Coahuila. Tex. Geog. Mag. 10(1):11-22. Spring 1946. 331.8 T31

W. B. McDougall, C. C. Presnall, and K. P. Schmidt, joint authors. An ecological study.

1754. VARGAS, F. Guanajuato; monografía geográfico-histórica. Soc. Mex. de Geog. y Estadís. B. 50:65-110. Ref. Apr. 1939. Amer. Geog. Soc. Libr.

Lists forest tree species by common name, p. 75, and briefly mentions forest products.

1755. VILLA, J. L. El mezquite y sus aprovechamientos. Mensajero Forest. 6(56):9. June 1948. 99.8 M522

Utilization of *Prosopis juliflora* as it grows in northern Mexico.

1756. THE WALNUTS of Mexico. Hardwood Rec. 50(7):40. Jan. 25, 1921. 99.81 H225

Discusses possibilities of commercial exploitation.

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1757. WHITE, S. S. The vegetation and flora of the region of the Río de Bavispe in northeastern Sonora, Mexico. *Lloydia* 11:229-302. Ref. Map. Dec. 1948. 442.8 L77

Oak-grassland association, p.243-246; pine forest, p.246-249. Also includes comments on resource utilization.

1758. WILLIAMS, L. Forest trees of the Isthmus of Tehuantepec, Mexico. *Trop. Woods* 53:1-11. Mar. 1938. 99.08 Y1Tr

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1759. ZINSER, J. Exploración en los Estados de Guerrero y Morelos, a fin de localizar la existencia de maderas para usos industriales, cortezas curtientes, fibres textiles y semillas oleaginosas. *Méx. Forest.* 18:74-75. July/Aug. 1940. 99.8 M57

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1760. ZINSER, J. El palo amarillo [Euphorbia fulva]. *Méx. Forest.* 19:40-42. Mar./Apr. 1941. 99.8 M57

PARAGUAY

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1871. QUINTEROS, M. El bosque privado en el Uruguay. Uruguay. Min. de Ganad. y Agr. B. Inform. 3:308. Oct. 3, 1946. 9.9 G15B
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Also in Caracas, Col. de Ingen. de Venezuela. Rev. 22:75-88. Apr./June 1944. Pan Amer. Union Libr.

The timber problems of Venezuela are treated as follows: forest capacity, forest composition, forest exploitation, timber marketing conditions, peculiarities of the lumber industry in Venezuela, reforestation, forest fires, merchantable timber, and wood treating. A list of timbers on the Caracas market, p.139.

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1889. BEEBE, W., and CRANE, J. Ecology of Rancho Grande, a subtropical cloud forest in northern Venezuela. Zoológica 32:43-60. Illus. May 8,1947. 410 Z722

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1891. BELL, P. L. Venezuela; a commercial and industrial handbook. U. S. Bur. Foreign & Dom. Com. Spec. Agents Ser. 212, 472 p. Maps. 1922. 157.71 Sp3
- Geography, topography and climate, p.9-16. Forest products are discussed by districts.
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- The forested regions, tree species found therein, and factors affecting exploitation in the State of Trujillo.
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- The introduction discusses the general forest regions of Venezuela. A glossary of tree names is appended.
1894. COLL REYNA, A. *Geografía económica de Venezuela*. Caracas, 1940. 150 p. 278.169 C69
- Chapter on exploitation of plant resources, p.89-96, includes timbers, divi-divi, and mangrove.
1895. COROTHIE, H. *Maderas de Venezuela*. Caracas, 1948. 321 p. Ref. 99.31 C812
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1896. CRIST, R. E. Along the llanos-Andes border in Zamora, Venezuela. *Geog. Rev.* 22:411-422. July 1932. 500 Am35G
- Describes the vegetation as well as the topography, and on p. 421 gives some available timber species.
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- Outlines a silvicultural system of cutting a tropical forest to favor the growth of valuable species. A table lists the species normally composing a typical stand which has suffered from intensive exploitation of *Swietenia* and *Cedrela*.
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(Conferencia Interamericana de Agricultura. 3, Caracas, 1945. Comité Organizador. Cuadernos Verdes, No. 33) 99.65 F73

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1903. GLEASON, H. A. Botanical results of the Tyler-Duida expedition. Torrey Bot. Club. B. 58:277-506. Map. May-Nov. 1931. 451 T63B

A general description of vegetation in this Orinoco region, and a vegetation map, p.277-298. Articles of the same series, omitted from this bibliography, are chiefly botanical.

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Report of a tour through part of Venezuela, to investigate balata, chicle, and livestock.

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1906. GONZALEZ VALE, M. A. Un plan nacional forestal venezolano. Trujillo, Venezuela, 1942. 28 p. 99.71 G58

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1913. LASSEUR, T. Exploraciones botánicas en el Estado Mérida. Caracas, 3d Conferencia Interamericana de Agricultura, 1945. 25 p. 457.5 L33

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1915. MATALLANA, R. P. B. DE La gran Sabana; tres años de mision en los confines de Guayana. *Soc. Venezol. de Cien. Nat. B.* 4 (29):10-82. Illus. Jan./Aug. 1937. 516 C172

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1920. OXFORD-LOPEZ, E. Apuntaciones para una geografía económica del Estado Bolívar. Caracas, Garrido, 1948. 324 p. 279.169 Ox2

Notes for an economic geography of the State of Bolívar in Venezuela include statistics of balata and chicle production, and a discussion of forest resources.

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1, Investigation of the flora of Venezuela and the actual state of knowledge. 2, Distribution of plants in Venezuela. 3, Plants of Venezuela. Sections of particular application to forestry include a forest description, p.20-27; timbers and other useful tree species, p.71-92. This last section includes a list of common names of timbers, some information on their properties and their uses for charcoal, lumber, and otherwise.

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1932. PITTIER, H., and WILLIAMS, L. A review of the flora of Venezuela. In Plants and Plant Science in Latin America, p.102-105. Waltham, Mass., Chron. Bot., 1945. 453 V58

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Selected works of the author include his geobotanical notes on the country, and his classification of forest vegetation.

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1935. RECORD, S. J. The wood of the Venezuelan mahogany (*Swietenia candollei* Pittier). Yale Sch. of Forestry Contr. 16, 7 p. 1921. 99.9 Y1C

In addition to giving the anatomical characteristics of the wood, compares Venezuelan mahogany with *Swietenia mahagoni* and discusses commercial developments.

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Includes general information about climate, soils and transportation. Trees most usually encountered, p.37-38; Forest products, p.91-92;

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- Balata and chicle, p.24-26.
1937. STANDLEY, P. C. Flora of Venezuela. Pan Amer. Union B. 60:978-990. Oct.1926. 150.9 M76
Discusses vegetation zones and the trees occurring in each zone.
1938. STEYERMARK, J. A. Exploración botánica a las regiones orientales de Venezuela. Soc. Venezol. de Cien. Nat. B. 10:259-276. Apr./June 1946. 516 C172
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A list of timber trees, with common names and uses, p.265-267.
1939. TAMAYO, F. Estudio del medio xerófilo venezolano. Caracas, Venezuela. Ministerio de Agricultura y Cría, 1949. 24 p. Illus. 99.47 V55
A land restoration plan for dry, eroded uplands. Includes a list of arborescent species for planting and natural revegetation.
1940. U. S. SOIL CONSERVATION SERV. Land conditions in Venezuela and their relations to agricultura and human welfare. Washington, 1942. 154 p. Ref. Maps. 1.96 Ad6L22
A report of the Soil Conservation Mission to Venezuela, headed by H. H. Bennett. Includes analyses of land types and vegetation.
1941. U. S. TARIFF COMMISSION. Agricultural, pastoral, and forest industries in Venezuela. Washington, 1945. 27 p. 173 T17Agv
Forests, p. 6; forest products, including lumber, balata, chicle, and divi-divi, p.22-23.
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In addition to wood technology, discusses nomenclature, distribution, tree description, and utilization of each timber listed.
1943. VEILLON, J. P. Los baldíos de la selva de Turén. Agr. Venezol. 15(144):19-23. Illus. Maps. July 1950. 9.95 Ag8
General description, forest composition, forest operations, the forest's part in the economy of Portuguesa, forest management, and administration, in the public lands of Turén.
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A vegetation map of the middle and lower Caura Valley, Venezuela. Estimates timber in three forest zones.
1945. VENEZUELA.DEP.T. DE DIVULGACION AGROPECUARIA. Observaciones y recomendaciones en materia forestal para el Estado Trujillo, por H. M. Curran, J. P. Veillon y G. Budowski. Caracas, 1949. 27 p. Map. 99.65 V55
1946. VENEZUELA. DIRECCION FORESTAL Y DE CONSERVACION DE SUELOS. La erosión de los suelos, sus causas y sus daños. Ed. 3. Caracas, 1949. 19 p. 56.7 V55
1947. VENEZUELA. SEC. DE DIVULGACION AGROPECUARIA. Estudio de las zonas forestales del Estado Portuguesa. Caracas, 1949. 65 p. Illus. Maps. 99.65 V55E
The Venezuelan Ministry of Agriculture obtained its original information from M. R. Turner, J. P. Veillon, H. M. Curran and L. Cieslinski.
- 1, Description of the plains country; 2, The silvicultural problem; 6, Forest exploitation; 7, Economic aspects of the lumber industry; 8, The Forest Service and its organization; 9, Investigation of Venezuelan timbers; 10, Forest fires; 11, Problems related to the mountainous area; 12, Reforestation.
1948. VENEZUELA. SEC. DE DIVULGACION AGROPECUARIA. Vegetación y agricultura en la Isla de Margarita, by G. Budowski.

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1949. VENEZUELA timber resources described. Timberman 35(4):
43. Feb. 1934. 99.81 T484

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1950. VOGT, W. The population of Venezuela and its natural resources. Washington, Pan Amer. Union, 1946. 52 p. Illus.
280.15 V86Po

1951. WALKEY, R. A. Tanning and shoemaking in Venezuela. Shoe & Leather Rptr. 250(9):13-14. May 29, 1948. 303.8 Sh7

Indicates divi-divi, mangrove, and imported quebracho extract as major tanning materials.

1952. WILLIAMS, L. Botanical exploration in the middle and lower Caura, Venezuela. Trop. Woods 62:1-20. June 1940. 99.08 Y1Tr

An illustrated account entitled The Caura Valley and its forests, appears in Geog. Rev. 31:414-429. July 1941. 500 Am35G

1953. WILLIAMS, L. Exploraciones botánicas en la Guayana venezolana. Caracas, Venezuela Ministerio de Agricultura y Cría, 1942. 468 p. 457.5 W67

Pt. 1 includes a description of the forests, and a list of forest products including timber trees and tannin plants; Pt. 2 is an annotated list of genera and species, with an index to vernacular names.

1954. WILLIAMS, L. Forests of the upper Orinoco. Trop. Woods 91:17-38. Sept. 1947. 99.08 Y1Tr

In addition to listing the forest tree species by regions, makes some attempt to evaluate possibilities of exploitation.

1955. WILLIAMS, L. Forests of the Venezuelan Guiana. Trop. Woods 68:13-40. Dec. 1941. 99.08 Y1Tr

1956. WILLIAMS, L. Maderas económicas de Venezuela. Venezuela. Venezuela Ministerio de Agricultura y Cría B. Téc. 2, 97 p. Ref. 1939. 9.95 Ag82

Utilization of the principal timbers of Venezuela, including a glossary of terms, and descriptions of 65 trees and their woods.

1957. WILLIAMS, L. Natural resources of Venezuela. In Plants and Plant Science in Latin America, p.293-295. Ref. Waltham, Mass, Chron. Bot., 1945. 453 V58

Also in Chron. Bot. 7:75-77. Mar. 1942. 450 C46
Timbers, p.294-295.

154 Some Current Serials and Periodicals Which Contain Information about Latin-American Forests

BRASIL MADEIREIRO. 94 Ave. Churchill, Rio de Janeiro, Brazil. Monthly, since about 1945. Industrial and technical aspects of forestry.

CARIBBEAN FORESTER. U. S. Forest Service, Tropical Forest Experiment Station, Rio Piedras, Puerto Rico. Quarterly, since October, 1939.

ECUADOR, DEPARTAMENTO FORESTAL, PUBLICACIONES. Quito. A numbered series begun in 1949. Forest policy and special problems are treated.

FORESTRY ABSTRACTS. Commonwealth Forestry Bureau, Oxford, England. A quarterly abstract journal of world-wide scope, first issued in 1939. A section at the end of each issue, entitled Forestry the World Over, briefly reviews current events. The annual index to this publication is arranged by author, subject, species, and geographical location.

MADERIL. 268 Bolivar, Buenos Aires, Argentina. Irregular, first issued in 1928. A lumber industry periodical containing occasional articles on technology and forest legislation.

MEXICO, DEPARTAMENTO FORESTAL Y DE CAZA Y PESCA, BOLETIN. Mexico, D. F. Irregular, since 1935. Includes Department reports and reviews of division activities, with some general articles on policy, education, cooperatives, fire-fighting, and reforestation. Reproduces forest legislation, and some issues tabulate production statistics.

MEXICO FORESTAL. Sociedad Forestal Mexicana, Mexico, D. F. Now irregular, issued since 1923. Articles on professional subjects, legislation, and statistics from official sources.

TROPICAL WOODS. Yale University, School of Forestry, New Haven, Conn. Formerly a quarterly periodical, now irregular. Begun by S. J. Record in 1925, to publish information on identity, properties, and uses of all tropical woods, with some emphasis on those of the New World. Has two unnumbered cumulative indexes, one a general subject index and index to scientific names (December, 1949), and the other an index to vernacular and trade names (May, 1950).

UNASYLVA. Food and Agriculture Organization of the United Nations, Forestry Division, Rome, Italy. Quarterly, begun in 1947. Separate articles on Latin-American forestry, and a section in each issue entitled News of the World.

WOOD. Tothill Press, London. Monthly, since 1936. Chiefly wood products and utilization.

ZEITSCHRIFT FUR WELTFORSTWIRTSCHAFT. Bundesanstalt für Forst-und Holzwirtschaft, Reinbek, Germany. Formerly monthly; irregular since World War II. Begun in 1933. Separate articles on Latin-American forestry, and a section in each issue entitled International Forestry Review.

INDEX

155

Item	Item
Abaracaatinga. <u>See</u> Mimosa.	
Abarco. <u>See</u> <i>Cariniana pyrifor-mis.</i>	
Abbiatti D	384
Abies	1506 1653 1677
Abies religiosa	1646 1653
Abranches Brotero F. <u>See</u>	
Brotero F A	
Abreu S F	709-711
Acacia astringens	373
Acacia decurrens mollis	758
Acacia negra. <u>See</u> <i>Acacia decur-rens mollis.</i>	
Academie Royale de Belgique	
Brussels	437
Achras	206
<u>See also</u> Chicle.	
Achras zapota	227 237 913 933 1637
Ackerman R H	1101
Açoita cavalo. <u>See</u> <i>Luehea diva-ricata.</i>	
Acosta A F. <u>See</u> Figueroa	
Acosta, A.	
Acosta Solís M	126 1268-1287
Adamo O A d'	257 258
Administration	69
Brazil	633 708
Colombia	1249
Ecuador	1296
French Guiana	1385 1410
Mexico	1459 1560 1568
Peru	1817
Venezuela	1943
Aerial photographs	
Amazon basin	889
Argentina	
Misiones	283
British Guiana	1372
Colombia	
Río Magdalena basin	1243
Peru	1812
Aerial surveys	
British Honduras	937
Afforestation. <u>See</u> Reforestation.	
Agriculture	61 357
Argentina	290 320 336
Chaco	274
Brazil	559 622 679
Amazon basin	637
Paraná	636
Rio Doce basin	616
British Honduras	929
Chile	1126 1151 1152 1158
Colombia	1260 1267
Costa Rica	995
Ecuador	1270 1316
Esmeraldas	1279
Agriculture--Cont.	
Guatemala	1013
Mexico	1608
Nicaragua	1058 1065
Peru	1844
shifting	8 81
British Guiana	1372
Colombia	1209
Mexico	1655
Panama	1079
Venezuela	1885
<u>See also</u> Man, effects on for-ests.	
Aguano. <u>See</u> <i>Swietenia.</i>	
Aguerre R O	365
Aguila, M. S. <u>del</u> <u>See</u> Sanchez	
Del Aguila, M.	
Aguilar, E. M. <u>See</u> Muñoz	
Aguilar, E.	
Aguilar G J I	1005
Ahern G P	1 18
Ahuehuete. <u>See</u> <i>Taxodium mu-cronatum.</i>	
Aircraft woods	
Argentina	291 426 515
Brazil	814 822 825 903
Aitken J B	1340
Alamo criollo. <u>See</u> <i>Populus nigra.</i>	
Alarco, F. R. <u>See</u> Ruiz Alarco, F.	
Alba A F	1066
Alba P de	223
Albanesi H	366
Albarco. <u>See</u> <i>Cariniana pyri-formis.</i>	
Albertoni J L	259
Alcoba Martínez A	260 261
Aldunate, L. B. <u>See</u> Bulnes	
Aldunate, L.	
Alemparte R J S	1102
Alerce. <u>See</u> <i>Fitzroya cupres-soides.</i>	
Alexjandro de Humboldt Na-tional Park, Mexico	1742
Alfonso J L	262 263 367 368-370 425
Algarrobo blanco. <u>See</u> <i>Proso-pis alba.</i>	
Allee W C	1067
Allen P H	1068
Allheimen H	712
Allouard P	1455
Almeida D G de	544 713 714 715 782
Almeida Prado, O. de <u>See</u>	
Prado, O. de A.	

Item	Item
Almeida Torres, A. de. <u>See</u> Torres, A. De A.	Araucaria angustifolia--Cont.
Almonacid P N 264	Brazil 545 546 554 557 562 595 598 621 624
Almuni C A 265	641 672 695 707 712
Alonzo A E 371	741 746 757 781 819
Alori Salas C 266	822 826 831 833 840 841 893
Alvarado, E. V. P. <u>See</u> Pérez Alvarado, E. V.	Minas Gerais 736 Paraná 639 São Paulo 823 877
Alves D R 663	laws and regulations 659
Alvim P de T 716	Araucaria araucana 370
Amadeo y Videla D 267	Argentina 392 396 440 512
Amapa. <u>See</u> Tabebuia.	Chile 1103 1104
Amapa prieta. <u>See</u> Tabebuia palmeri.	Araucaria brasiliiana. <u>See</u> Araucaria angustifolia.
Amaral R de 372	Araujo A V de 719
Amaranth. <u>See</u> Peltogyne pubescens.	Araujo L C 720
Amazon basin 250 554 606 1793	Araujo P A de M 782
See also under specific subjects and countries, e. g. Timber, Brazil, Amazon basin.	Arbeláez, E. P. <u>See</u> Pérez Arbeláez, E.
Amazon Hylea 608	Arbol del Pirú. <u>See</u> Schinus molle.
American Geographical Society 3 4 90	Archer W A 650
American Wood Preservers' Association 1456	Areas 7 14 36 84 104
Amorim A 717	Argentina 289 294 301 307 344 357 359 389
Amorocho, R. G. <u>See</u> Gómez Amorocho, R.	Bolivia 526 530
Anacardiaceae 202 1847	Brazil 566 589 598 634 675
Anacardium 202	British Guiana 1371
Anacardium excelsum 141	British Honduras 941
Anacardium occidentale 749	Chile 1101 1113 1128 1150
Ancizar E 1192	Colombia 1253
Andrade, E. N. de. <u>See</u> Navarro de Andrade, E.	Ecuador 1270
Angélique. <u>See</u> Dicorynia parensis.	Honduras 1036
Angico vermelho. <u>See</u> Piptadenia macrocarpa.	Mexico 1457 1463 1484 1491 1492 1509 1511 1513 1515 1552 1571 1763 1766
Anglo-American Caribbean Commission, Soil Water and Forest Conservation Committee 94	Campeche 1494 Chihuahua 1576
Aniba 199 728 762 1254	Paraguay 1777 1784
Aniba rosaeodora 692 777 1393 1403 1413	Tierra del Fuego 262
Anthony H E 1103 1104 1321	Uruguay 1884
Apeiba tibourbou 883	Venezuela 1918
Araucaria Argentina 480	Arellano. <u>See</u> Brasilettia platyloba.
Araucaria angustifolia 84 152 161 242 718 742 782 797 805 853—855 865	Argentina Admin. General de Parques Nacional Turismo 445
Argentina 305 371 410 427 488	Argentina Comisión de la Industria del Quebracho 268
Misiones 273 283 500	Argentina Dirección Forestal 257
Tucumán 502	

Item	Item
Argentina Serv of Forest Statistics 307	Balata--Cont.
Aries R S 1457	Guianas 1429
Armiño, S. B. <u>See</u> Barojas	Peru 1787 1799 1809 1822
Armiño, S.	1824
Armour Research Foundation 270 362 1458 1520	Surinam 1429
Armstrong F H 721	Venezuela 1429 1904 1910
Arrighi A A 271	Amazonas 1936
Arrili, B. G. <u>See</u> Gonzalez	Bolivar 1920
Arrili, B.	Llanos 1897
Asamblea Forestal Nacional	<u>See also</u> Lucuma; Manilkara.
Santiago Chile 1943 1173	Baldwin C 1106
Ashton J 1051	Balsa. <u>See</u> Ochroma.
Asociación de Amigos del Arbol Colombia 1266	Balsa Ecuador Lumber Corporation 1289
Asociación Nacional de Productores de Maderas de Pino, Mexico 1459	Balsamo. <u>See</u> Myroxylon balsamum.
Asociaciones de Productores Forestales, Argentina 286	Bamboo 507 1231 1311 1312
Aspidosperma 152 782 1262	<u>See also</u> Guadua angustifolia.
Aspidosperma dugandii 1221	Banak. <u>See</u> Virola.
Aspidosperma polyneuron 865	Banco Italiano, Lima 1788
Aspidosperma quebracho-blanco 279 428	Banda C F 1290 1291
Astronium 202	Bandeira B R P 551
Attolini J 1460 1461	Barañoa J A 377
Atwood A C 133	Barbosa J C de M H 552
Aubert de la Rue E 1288	Barbour T 1069
Aubreville A 545 546	Barbour W R 6 128 275
Australia Dept of Scientific and Indus. Research, Forest Products Research Laboratory 721	378 977 978 989 990
Avellan J 1886	Bärner J 129
Avencio Villarejo P 1787	Barnes V 1887
Avicennia marina 1420	Barojas Armiño S 1463-1465
Avila Hernández M 1462	Barreda J A 1789-1791
Ayele. <u>See</u> Crescentia alata.	Barreda R C A 1792
Azambuja D de 782	Barrel G H 1793 1794
Azevedo A de 547	Barrena R 1466
B A 548	Barreto H I de M 722
Babbitt W C 5 549	Barriguda. <u>See</u> Cavanillesia.
Baca, R. M. <u>See</u> Martínez Baca, R.	Barriguete V M 1608
Bacigalupo J A 272	Barros R 723
Baeta G P 550	Barros W D de 553
Báez J R 373- 376	Bartlett H H 906
Baeza R V M 1105	Baskets
Baker H B 1934	Uruguay 1867
Balata 31 74 116 246	Basra locus. <u>See</u> Dicorynia paraensis.
Brazil 559 631 692 750	Bastos A de M 554- 557
760 774 809 829	724- 728
British Guiana 108 1356	Bates M 1194
1362	Bay R J 1377
Colombia 1264	Bayá, J. T. del G. <u>See</u> Granado
French Guiana 1402 1403	Bayá, J. T. del. 1384

	Item		Item
Belcher R S	131	Boschnegers	1434
Belgian Biological Mission to Brazil	844	Botanical names. <u>See</u> Nomenclature.	
Bell P L	1195 1467 1890 1891	Botija Fajardo A	379
Belterra, Brazil	667	Bouillenne R	735 844
Beltrán E	1468-1470	Bourke-Borrowes D	521
Beltrán P P	1266	Bourne W C	1085
Béna P	1385	Bournet E	1719
Benassi L	276	Bowdichia	782
Benchimol S	559	Box lumber	
Benjamin R S	1471	Argentina	296 401
Bennett H H	8	Brazil	886
Benoist R	1386-1388	Colombia	1256
Berge W	9	Costa Rica	989
Bergman M. C. <u>See</u> Cid y Bergman, M.		Panama	1082
Bergstrom G	132	<u>See also</u> Container woods.	
Bernath E L	1107-1109	Boxwood	209
Berninger O	1110	Bracaatinga. <u>See</u> Mimosa.	
Bertholletia excelsa	780	Bracatinga. <u>See</u> Mimosa.	
Bertin A	1389	Braddy T W	1070 1071
Bertoni G T	1761	Brade A C	736
Bertrand, S. F. <u>See</u> Fernandez Bertrand, S.		Bradt G W	1341
Bettenfeld M	1390	Brand D D	1640-1642
Betts A W	10	Brasil, R. P. <u>See</u> Pereira Brasil, R.	
Bevan A	1391 11-15	Brasilettia platyloba	1658 1661
Bezerra dos Santos, L. <u>See</u> Santos, L. B. Dos.		Brasnett N V	1342
Bibliographies	23	Brazil Immigration and Colonization Council	597
Mexico	47 1581	Brazil Instituto Nacional do Pinho	614
vegetation	133		674
Biedma, M. C. <u>See</u> Castro Biedma, M.		Brazil Ministerio da Agricultura	645
Bierig A	980	Brazil Ministerio da Agricultura Industria e Commercio	
Bigarella J J	730	Serv de Informações	564
Bignoniaceae	198	Brazil Ministry of Foreign Affairs, Cultural Div	565
Bilioni, J. S. <u>See</u> Santos Bilioni, J.	501	Brazil Serviço Florestal	633
Bishop S A	560		665 691
Black G A	731	Brazilian Government Trade Bur.	
Blake S F	133 907	Brazilian pine. <u>See</u> Araucaria angustifolia.	
Blanco C	908	Brazilwood. <u>See</u> Guilandina echinata; Haematoxylon brasiletto.	
Blanco C E	1472 1473	Brebbia C	307
Blanco G	1638	Briceño Valero A	1892
Bloch H	1474	Bridge timbers	
Bois de rose. <u>See</u> Aniba; Nec-tandra; Ocotea.	1196	Central America	229
Boiteux H	732	Briegleb P A	1111 1136
Bolivian Development Corpora-tion	525 529 538	Brin L M	819
Bombacaceae	203	Brinkmann T	274
Bondar G	733		
Bondim S	734		
Bonds	561		
Chile	1138		
Boraginaceae	204		
Borrowes, D. B. <u>See</u> Bourke-Borrowes, D.			

Item	Item
British Empire Forestry Conference	
1st London 1920	931 1369
3d Australia and New Zealand 1928	955 1369
4th South Africa 1935	931 975 1345
5th London 1947	938
British Guiana Forest Dept	1343 1344-1346
British Guiana Interior Development Committee	1347 1373
British Honduras Agricultural Officer	963
British Honduras Forest Conservator	963
British Honduras Forest Dept	922 934
British Honduras Survey Dept	923
British Honduras pitch pine. <u>See</u> <i>Pinus caribaea</i> .	
British Standards Institution	134
Brocadet A P	739
Brosimum	205 768
Brossard D	569
Brotero F A	740 741
Brown N C	135
Browse	518
Brunk J W	570
Brush W D	136 742
Bucida buceras	214
Buddleia incana	126
Budowski G	1945 1948
Buell A W	137
Buendía, C. C. <u>See</u> <i>Calderón Buendía, C.</i>	
Buenos Aires Universidad Facultad de Agronomía y Veterinaria	219
Buenrostro E	1475
Bulnes Aldunate L	1112
Bulnesia sarmienti	490
Burbano R J	1292
Burdon J	926
Burger D	1422 1428
Burgos J	1034
Burgos L J A	1795
Burkart A	380- 382 439
Burkland E R	138
Burt Davy J	139
Bustamonte I L F	743
Buttonwood. <u>See</u> <i>Conocarpus erecta</i> .	
Buttonwood Mission	1622
Buttrick P L	571
Caatingas	
Brazil	716
Caballero P J	1476
Cabinet woods	240
Brazil	792 878
Colombia	1217
French Guiana	1412
<u>See also</u> Furniture woods; Precious woods.	
Cabral de Vasconcellos, P. W.	
<u>See</u> <i>Vasconcellos, P. W. C. de</i>	
Cabrera A L	383- 385 424 439 509
Cadena, E. G. de la. <u>See</u> <i>González de la Cadena, E.</i>	
Caesalpinia	380
<i>brevifolia</i>	157 1162
Caesalpinia coriaria. <u>See</u> <i>Libidibia coriaria</i> .	
Caesalpinia echinata. <u>See</u> <i>Guilandina echinata</i> .	
Caesalpinia melanocarpa	393 441
Cafferata R E	277
Cain H E C	946
Calderón E F	1643
Calderón S	1086-1088
Calderón Buendía C	1198
Caldevilla G M	1845 1863
Calmet, E. N. <u>See</u> <i>Noriega Calmet, E.</i>	
Calophyllum	152 158
Calycophyllum	775
Camilo C del	1477
Campnosperma panamensis	1082
Campos	747
Campos C A R	572
Campos G de	744
Campos Porto P	745
Canal Zone Forest Reserve	1069
Candeia. <u>See</u> <i>Vanillosmopsis erythropappa</i> .	
Candelilla. <u>See</u> <i>Euphorbia cerifera</i> .	
Candelon. <u>See</u> <i>Rhizophora mangle</i> .	
Cane. <u>See</u> <i>Bamboo</i> .	
Canela	782
Cano J	1089
Cantu, D. R. <u>See</u> <i>Ramirez Cantu, D.</i>	
Caoba. <u>See</u> <i>Swietenia</i> .	
Carabia J P	1762 1779

	Item		Item
Carapa	201	Cedro peruano. <u>See</u> Cedrela	Item
Carapa guianensis	1346	herrerae.	
	1363	Celaenodendron mexicanum	
	1423		1709
Cárdenas C	1607	Celastrales	208
Cárdenas M	522- 524	Celtis tala	471
Caribbean Commission	16	Ceniceros, E. D. <u>See</u> Dupré	
<u>See also</u> Anglo-American		Ceniceros, E.	
Caribbean Commission.		Central American pine. <u>See</u>	
Carillo R	264	Pinus caribaea.	
Carlini V	278	Cevallos M H G	1294
Carmelich J N F	279- 281	Chacahua National Park, Mexico	
	387		1743
Carneegie Institution of Washington	906	Chañar. <u>See</u> Gourliea spinosa.	
	918	Chancerel L	140
Carnevale J A	388	Charcoal	235 1339
Carr A D	927	Argentina	272 279 292
Carr A F	1035	Brazil	348 357 364
Carretero R V	282		
Carreto. <u>See</u> Aspidosperma.		Brazil	594 668 692 704
Carrizo M	390		705 738 783
Cartels	9	Minas Gerais	550
Carya	340	Pernambuco	655
Caryocar nuciferum	1714	South	703
Caryocaraceae	1452	British Guiana	1339 1340
Case G O	252		1351
Casearia gossypiosperma	1349	Colombia	1454 1475 1478
Cashew. <u>See</u> Anacardium occidentale.	1350	Mexico	1510 1536
Cassagne Serres A	1772	Distrito Federal	1590
Castellanos A	284	Peru	1815
Castellanos A	391- 394	El Salvador	1088
Castellanos R O A	1479	Surinam	1339 1447
Castiglioni J A	488	Uruguay	1870
Castillo Lussich C del	489	Venezuela	1930
Castre E	1846	Charles Lathrop Pack Forest	
	1796	ry Trust	39
Castro, A. O. <u>See</u> Olmos Castro, A.		Charter C F	928
Castro E B	284	Chatelain G	1393 1394
Castro F	395	Chebataroff J	1847 1848
Castro Biedma M	1528	Chevalier A	574 575 747
Castro F F	396		748 1395
Castro R J	1480	Chicle	24 52 114 116
	1199		175 734
Catingas. <u>See</u> Caatingas.		Brazil	565 733 734
Cavalcanti P	1528	British Honduras	108 927
Cavanillesia	573		933 963
	224	Central America	921
Cave M S	817	Colombia	1256
981 1052 1072 1090		Guatemala	1009 1013 1033
1200 1293 1481 1763	1893	Mexico	1494 1555 1585 1668
Ceccatto G do N	746	Peru	1787 1824
Ceconato A	397	Venezuela	1904 1920 1936
Cecropia	241 1790	Yucatan	913 918 1668
Cedars	1802	Chico National Park, Mexico	
Argentina			1718
	407	Chico zapote. <u>See</u> Achras zapota; Chicle.	
Cedrela	152 201		
	782		
	894		
	1010		
	1229		
Cedrela fissilis	459		
Cedrela herrerae	1806		
Cedro blanco. <u>See</u> Cupressus.			
Cedro misionero. <u>See</u> Cedrela			
fissilis.			

<u>Item</u>	<u>Item</u>
Chile Ministerio de Relaciones Exteriores 1113	Communal land. <u>See</u> Land, collective.
Chile Off. of Agricultural Colonization 1153	Companhia Nacional de Navigacion, Brazil 903
Chilean Development Corporation 1112 1116 1127 1135 1136 1178	Companhia Paulista, Brazil 649
Chilean forest mission. <u>See</u> U. S. Forest Serv., Mission to Chile.	Compañía Colonizadora Maderera e Industrial del Chapare. 525
Chlorophora 205	Compañía Maderera de Durango 1472
Chlorophora tinctoria 1622	Composition. <u>See</u> Forest types.
Cid y Bergman M 1482	Conacaste. <u>See</u> <i>Enterolobium cyclocarpum</i> .
Cieslinski L 1947	Conde Galofre G 1207
Cimental C 1483	Conferencia Americana de Asociaciones de Comercio y Producción 84
Cipres. <u>See</u> Cupressus.	Conferencia Mundial de la Energía, Comité Argentino 292
Clark H S 1352	Congrès International de Sylviculture Rome 307 669
Clark University Worcester Mass 666	Congreso Forestal de Colombia, 1st Bogota 1945 1251
Claro, R. D. <u>See</u> Ducci Claro, R.	Coniferous forests 68
Clos E C 398	Coniferous trees
Cloud forests	Argentina 403 405
Costa Rica 978	Chile 1107a
Honduras 1047	Guatemala 1023
Club Rotario de Bogotá 1201	Uruguay 1884
Comité Forestal 1202	<u>See also</u> Abies; Pinus; and other genera.
Cocobolo. <u>See</u> Dalbergia. 399	Coniferous woods
Codoni J C 399	Mexico 1535
Coihue. <u>See</u> Nothofagus dombeyi.	Conkwright W A 1629
Cole D S 1484 1485	Conocarpus erecta 1622 1717
Coleman F B 1036	Conrad H H 749
Coll Reyna A 1894	Consejo Agrario Nacional, Argentina 320
Colombia Dept de Contraloría 1203	Construction lumber
Colombia Dept de Tierras 1204	Argentina 266 442
Sec de Bosques 1235	Brazil 626 732 788 886
Colombia Ministerio de la Economía Nacional 1205	Colombia 1215
Sec de Bosques 1205	Costa Rica 989
Colombian Commission of Inter-American Development 1206	Ecuador 1285 1314
Colombian mahogany. <u>See</u> <i>Coccoloba pyriformis</i> .	Mexico 1689 1716
Colombres, P. A. V. <u>See</u> Velloso	Panama 1071
Colombres, P. A.	Paraguay 1761
Colonization. <u>See</u> Settlement and colonization.	Venezuela 1918
Comber H F 1114	<u>See also</u> Aircraft woods; Lumber; Timber.
Comino. <u>See</u> <i>Aniba perutilis</i> .	Container woods
Comino crespo. <u>See</u> <i>Aniba</i> .	Argentina 296 397 401 519
Comisión Consultiva Nacional de Bosques Argentina 285	Brazil 799
Comissão de Estudos para Recuperação Econômica da Região Assolada no Vale do Paraíba 577	Uruguay 1867
Comité National Des Bois Tropicaux 1396	<u>See also</u> Box lumber; Coop- erage woods.
Commercial species. <u>See</u> Timber.	Contracts
	Argentina 284

Item	Item
Contreras L 1115	Crown gum. <u>See</u> Chicle.
Conquero. <u>See</u> Agriculture, shifting.	Cruiser C A 1423
Convención Nacional Forestal, Mexico 1st 1942 1564	Cruz, A. S. <u>See</u> Santa Cruz, A.
Convention on Nature Protection and Wild Life Preservation in the Western Hemisphere 1581	Cruz Riascos L C 1210
Cooper G P 141 1073	Cuatrecasas J 1211 1212
Cooperage woods 296 345 626 1400 1411	Cuban pine. <u>See</u> <i>Pinus caribaea</i>
Cooperatives 578 1487 1554	Cubillos L A 1213
Coordinator of Inter-American Affairs. <u>See</u> U. S. Off. of the Coordinator of Inter-American Affairs.	Cumberland W W 1053
Copaifera	Cumbres del Ajusco National Park 1744
Brazil 773	Cummings L A 1900
Cordia 152 204 217 714	Cumula. <u>See</u> <i>Aspidosperma dugandii</i> .
Cordia goeldiana 840	Cunha da Silva, J. A. <u>See</u> Silva, J. A. C. da
Córdoba University, Argentina 265	Cupressus 919 1681 1713
Cork 571 579 692 713 715 751 817	Cupressus benthami 917
Cornell C 287 401	Curran H M 20 21 582 1214 1945 1947
Corona J M 1634 1644	Currie L 1193
Corothie H 1895	Cussac C M 1861 1862 1864 1865
Corporación Boliviana de Fomento. <u>See</u> Bolivian Development Corporation.	Cybistax 1010
Corporación de Fomento de la Producción. <u>See</u> Chilean Development Corporation.	Cybistax donnell-smithii 156 198
Corporación de Industrias Madereras y Colonización 357	Daireaux F 509
Corporación para la Promoción del Intercambio 270	Daireaux G 290
Corrêa M P 750	Dalbergia 132 200 210 782 1086
Cortes S 1208	Dalbergia retusa 220
Costantino I N 288 402	Dalbergia stevensonii 930 973
Coudreau J 142	Damas H 751
Couma guatemalensis 1009	Daniel Hermano 1215 1216
Covas G 403 487	Daniels A S 146
Cox W T 18 143 144 580 581	Danks F. S 1354
Coxe G R 1489	Dansereau P 752—755
Cozzo D 289 404—406 490	Dasso M 1797
Crabwood. <u>See</u> Carapa guianensis.	Davis D E 756
Crane J 1889	Davis T A W 1355—1358 1368
Credit	Davy, J. B. <u>See</u> Burtt Davy, J.
Colombia 1192	Dawson G 385
Mexico 1459 1523 1554 1606	Dayton W A 982 983 989 990
Cregan K H 1353	Deasy G F 1645
Crescentia alata 1661 1665	De Civrieux M 1914
Crist R E 1209 1896—1899	Defelippe B A 292
Cross M 19	Deforge A 1405
Cross ties. <u>See</u> Ties.	De Foxa, J. <u>See</u> Foxa, J. de.
	Delfor Ferraz H 293
	Demaria Masey D 407
	Demerara greenheart. <u>See</u> <i>Ocotea rodiae</i> .
	Demougeot M 1397—1401
	Depletion and devastation 12 78

Item	Item
Depletion and devastation--Cont.	
Argentina 280 288 289	Dominguez P 301 413 414
337 483	Donald P G 22
Nahuel Huapi area 454	Donat A 233 415 416
Patagonia 334	Dougherty J L 758
Brazil 553 585 589 596	Dry forest
598 640 672 684 877	Brazil 813.
British Honduras 933	Duarte de Barros, W. <u>See</u>
Chile 1126 1145 1159	Barros, W. D. de
Colombia 1209 1234 1245	DuBeau N P 1218
1250 1263	Dubiau, R. H. <u>See</u> Hepp Dubiau, R.
Costa Rica 987 1004	Ducci Claro R 1117
Ecuador 1282 1297	Ducke A 149 759- 776
Guatemala 1013	Du Frane B 777
Mexico 1491 1522 1529 1571	Dugand A 1219-1225
1578 1599 1608 1610 1628	Duly S J 108
1632	Dunlop W R 929
Chiapas 1583	Dunn W E 1799 1800
Puebla 1639	Dupré Ceniceros E 1491 1492
Valle de México 1646	Duque Jaramillo J M 1226
Nicaragua 1055	1227-1229
Peru 1792	Durland W D 302 303 417
El Salvador 1095 1100	1037 1493 1647
Surinam 1428	Dutch Guiana. <u>See</u> Subhead
Venezuela 81 1905 1926	Surinam.
Desierto de los Leones National Park, Mexico 1745	Dye I 1118
Determa. <u>See</u> Ocotea rubra.	Dyewoods 220
Detwiler S B 147 408	Argentina 373
Deuber T P 1574 1814	Brazil 626
Devez G 1402	Colombia 1197 1255 1256
Devoto F E 294- 300 409	Mexico 1467 1622
410- 412	Paraguay 1761
Díaz, E. G. <u>See</u> García Díaz, E.	Venezuela 1895 1918
Díaz, E. T. <u>See</u> Torricelli Díaz, E.	
Díaz, L. E. <u>See</u> Espejel Díaz, L.	Eastman W A 984
Díaz Galindo F M 1217	Ebano. <u>See</u> Erythroxylon; Libidibia sclerocarpa.
Dickinson F E 148 166	Ebert, M. H. <u>See</u> Hartard Ebert, M.
Dicorynia paraensis 155 1397	Echegoyen M H 1119 1120
1410	Ecological Society of America. Committee on the Preservation of Natural Conditions 150
Diels L 1295	Ecology
Diena M 1849	Amazon river basin 784
Dijkmans M A F 1424	Argentina 351 437 473
Di Pasquo, E. <u>See</u> Pasquo, E. di.	Brazil 747 752 753 756
Directories	791 896
Mexico 1561	British Honduras 928
Distillation products	Chile 1161
Argentina 348	Colombia 1211
Brazil 668 692	Panama 1067
Guianas 1339	Venezuela 1889
Mexico 1458 1520 1536 1538	See also Forest types; Soils; Vegetation.
See also Charcoal; Wood gas.	Economic aspects 46 89
Divi-divi. <u>See</u> Libidibia coriaria	124 692
Dobzhansky T 731	
Doetzer J E 583	
Domingues A 584	

	<u>Item</u>		<u>Item</u>
Economic aspects--Cont.			
Amazon basin	606	Espejel Díaz L	1496
Argentina	258 294	Espina R	1230
	308	Espinosa R	1297
bibliographies	23	Espinosa B M R	1124
Bolivia	525	Espriella, V. R. de la. <u>See</u>	
Brazil	562 585 599	Recalde de la Espriella, V.	
	620	Estrada, C. N. <u>See</u> Navarro	
Amazon basin	643	Estrada, C.	
Bahia	642	Eucalyptus	191 892
Northeast	681	Argentina	419 481 494
British Guiana	43	Brazil	546 586 649 670
British Honduras	43 934	Chile	
Central America	929	Ecuador	1273 1313
Chile	1126	Mexico	
Colombia	1193 1195	Peru	
	1243 1253	Eucalyptus globulus	1332
Ecuador	1203	Euphorbia cerifera	1643
French Guiana	1264	Euphorbia fulva	1760
Guianas	1339	Euphorbiaceae	1437
Mexico	1460 1463 1491	Evans Sir G	29
	1539	Exploitation	7 39 40
Nicaragua	1554	64 66	69 97 99
Paraguay	1053		105 114 122
El Salvador	1061	Argentina	262 266 273
Uruguay	1783	284 301	304 326 332
Venezuela	1096		351 357 417
Ecuador Dept Forestal	1858 1861	Bolivia	526 538
Ecuador Ministerio de Economía	1891 1905	Brazil	554 559 560 585
	1943	593 655	678 704 752
Education and training	1296		830
	66 69	British Guiana	40 1346
Edwards A	1121	1349 1359 1360	1365 1371
Egler F E	24	British Honduras	941 1742
Ejidos	1487 1539 1577	Chile	1101 1125 1126 1132
Elchibegoff I M	25 26	1145 1152	1154 1176
Elgueta M	1123	Colombia	1214 1239 1240
Embuia. <u>See</u> Phoebe porosa.		Costa Rica	986 990
Emory L T	1359	costs and returns	
Emrich K	778	Brazil	624
Engelhardtia	236	Costa Rica	998
Engledow F L	27	Mexico	1496
Englesing F C	1062	Ecuador	1269 1270 1324
Enterolobium	217		1330
Enterolobium cyclocarpum	1027	French Guiana	1385 1389
Eperua	149 1339	1390 1391 1394	1403 1409
Brazil	768 773		1421
British Guiana	1340 1363	Guatemala	1006
Eperua falcata	235 1346	hazards and risks	65 75
Eppens G A	1377	79	89 101
Erlanson G O	304	Honduras	1036
Erythroxylon	1074	Mexico	1477 1484 1509
Escherich K	1086	1511 1516	1534 1547 1571
Escudero A	586		1591 1606 1626
Esparza, H. M. <u>See</u> Mares	1495	Campeche	1585
Esparza, H.		Chiapas	1479
Espavé. <u>See</u> Anacardium excel-		Chihuahua	1504 1576
sum.			

	<u>Item</u>		<u>Item</u>
Exploitation--Cont.			
Mexico--Cont.			
Guerrero	1742		
Jalisco	1614		
Méjico (State)	1506	1612	
Michoacán		1500	
Sierra Madre region		1472	
Tlaxcala		1615-1617	
Panama		1070	
Paraguay	1766	1771	
	1775	1783	1785
Peru	1793	1815	1821
			1839
			1840
Surinam	1423	1433	1442
			1444
Venezuela	1886	1890	1894
1901	1905	1909	1911
			1926
			1949
Orinoco basin			1954
Portuguesa		1943	1947
Trujillo			1892
<u>See also</u> Depletion and devas- tation; Logging; Lumbering; Utilization.			
Exposición Forestal, 1st Monte- video 1946		1850	
Exposición Forestal, Argentina		267	
Eyma P J		1425	
Fablet L E		307	
Fagus		1722	
Fahnestock G R		1054	
Fairchild J E		90	
Fajardo, A. B. <u>See</u> Botija			
Fajardo, A.			
Fanshawe D B		1361-1363	
Farm woodlands			
Argentina	290	343	361
Favre, R. Y. <u>See</u> Yussem Favre, R.			
Feeley G P		909	
Fernandez Bertrand S		1232	
Fernández García A		1125	
Fernandez R J		1497	
Ferraz H D		293	
Ferraz M de S		781	
Ferreira de Souza, P. <u>See</u> Souza, P F de			
Ferriz Saviñón A		1498	
Feruglio E		418	
Fidel C		1336	
Fiebrig C	1764	1765	
Fiebrig-Gertz C		151	
Figuera de la Fuente E		1126	
Figueroa Acosta A		1801	
Fine woods. <u>See</u> Cabinet woods; Precious woods.			
Finer H			
Fir. <u>See</u> Abies.			
Fires			
Argentina		288	295
		318	352-354
Brazil			747
British Honduras			940
Chile		309	1126
Mexico		1488	1502
			1529
Patagonia		297	309
Venezuela		1886	1926
Fischer E J			31
Fisher S B			131
Fitzroya cupressoides			1134
Fleming G R			1499
Fletcher M I			1298
Flinta C M			419
Flooring			1352
Flora. <u>See</u> Trees; Vegetation.			1650
Flugger A L			32
Foglio Miramontes F			1500
Foley J			131
Fondo de Fomento Forestal			
Colombia			1192
Fonseca, E. T. da. <u>See</u> Teix- eira da Fonseca, E.			
Fonseca Filho C de A			783
Fontana E			1901
Fontana y Menendez E			1902
Food and Agriculture Organi- zation of the United Nations			
32	54	68	70
Mission to Nicaragua			1524
Ford plantations Tapajoz River			
Brazil		667	845
Foreman W J			1501
Forest reserves. <u>See</u> Parks and reserves.			
Forests trusts. <u>See</u> British Honduras. Forest Dept.			
Forest types		7	36
		82	160
Andes-Patagonia		173	174
			456
Argentina		284	325
		359	435
		420	439
			488
Andes eastern slope			456
Chaco			443
			490
Formosa			490
Misiones			363
Patagonia			456
Punta Lara			385
Resistencia			460
Santa Fé			487
Brazil	687	752	787
			791
			813
Amazon basin			875
			759

Item	Item
Forest types--Cont.	
Brazil--Cont.	
Bahia	899
Espírito Santo	786
Northeast	882
Parana pine region	826
Rio de Janeiro (State)	786 896
British Guiana	1349
1367 1368 1371	1366 1379 1383
British Honduras	928
948 963 966	937 970 1547
classification	128
Colombia	1212
Costa Rica	1223
Ecuador	1305
Gran Chaco	1322
Honduras	1035
Mexico	1513
1547 1568	1573
1647 1673	1702 1740
Colima	1736
Durango	1690
East	1692
Oaxaca	1697
Puebla	1691
Sinaloa	1656
Sonora	1757
Southeast	1707
Yucatan	1676
Nicaragua	1055
Panama	1060
Paraguay	1063
Peru	1073
El Salvador	1769
Uruguay	1836
Venezuela	1837
1905 1923	1844 1925
See also Cloud forests; Dry forest; and other designations of forest type.	1901 1927 1933 1943
Forestation. <u>See</u> Reforestation.	
Forestry. <u>See</u> specific aspects of forestry, e. g. Management; Policies and programs.	
Forestry as a profession	
Argentina	341
Forestry Council, Chile	1189
Forests. <u>See</u> Forest types; Timber; Trees and kinds of forests, e. g. Rain forest.	
Forsling C	35
Fosberg F R	784
Foxa J de	420
Foxa Torroba J de	421
Fraga M V G	588
France Ministère de la Guerre	785
Mission d'Etudes Forestières	1390
Francis G W E	932
Francis W	1364
Francke A	36
1056	37 422
Franklin H	1299
Freijo. <u>See</u> Cordia.	1426
Freise F W	1767
Fregoso G	570
Freijó. <u>See</u> Cordia.	
Freise F W	1648
Fréguelli J	591—786
Fréguelli J	787—796
Frich P	423
Fritz E	424
Froes, R. de L. <u>See</u> Lemos	
Froes, R. de.	
Fróes Abreu, S. <u>See</u> Abreu, S. F.	
Fryckberg M	1650
Fuelwood	153
Argentina	126
Brazil	264
Colombia	272
Guayas	292
Pernambuco	334
Santos	364
São Paulo	594
São Paulo	677
São Paulo	704
São Paulo	710
São Paulo	738
São Paulo	783
São Paulo	842
São Paulo	642
São Paulo	626
São Paulo	758
São Paulo	1340
São Paulo	1234
São Paulo	1263
São Paulo	1339
São Paulo	1478
São Paulo	1506
São Paulo	1510
São Paulo	1590
São Paulo	1716
São Paulo	1815
Fuente, E. F. de la. <u>See</u>	
Figuera de la Fuente, E.	
Furlow E P	910
Furniture industry	132
592	123
592	617
Furniture woods	1566
Furniture woods	247
Furniture woods	549
Furniture woods	626
Furniture woods	1761
Gaitan G	1502
Galicia D F	1503
Galindo, A. R. <u>See</u> Ranghel	1504
Galindo, A.	
Galindo, F. M. D. <u>See</u> Díaz	
Galindo, F. M.	
Galindo y Villa J	1651
Gallardo, A. G. <u>See</u> González	
Gallardo, A.	
Galofre, G. C. <u>See</u> Conde	
Galofre, G.	
Gamboa, R. P. <u>See</u> Pascacio	
Gamboa, R.	
Gándara G	1652

	Item		Item
Gandarillas Matta J	1129	Gómez, J. M. <u>See</u> Montero	
Garcia A	1300	Gómez, J.	
García, A. F. <u>See</u> Fernández		Gómez Amorocho R	1234
García, A.		Gómez Haedo F	1852
García, J. M. <u>See</u> Martínez		Gómez Romero F	1521
García, J.		Gómez y Gutiérrez A	1522
García, P. U. <u>See</u> Uriarte		Gonçalo alves. <u>See</u> Astronium.	
García, P.		Gonçalves C A	597
García Díaz E	1505-1508	Gonggrijp J W	1428-1431
García G E	1938		1904
García Garduño R	1653	Gonggrijp L	1432
García Martínez J	1509-1513	González A	1235 1236
García S A	1302	González Arrili B	429
García Salas J	1007	González de la Cadena E	1523
García Solórzano A	1301	González Gallardo A	1524
Garduño, R. G. <u>See</u> García		González Ortega J	1657-1665
Garduño, R.		González Tafu O B	1802
Garmendia, J. O. <u>See</u> Ortiz		González Vale M	1905-1909
Garmendia, J.		Gooch W L	1622
Garratt G A	154 209 210	Goodspeed T H	1132
	1054	Gourliea spinosa	1165
Gartner V	1236	Gouveia A	598
Garver R D	1055 1075	Grades and grading	
Gay E C	1514	Brazil	688 690 741
Gazonnaud P	38	Chile	1148
Geijskes D C	1427	Ecuador	1318
General Motors Corporation		Mexico	1459
General Motors Overseas		El Salvador	1098
Operations	308 592 1515	Graham E H	1366
Gentry H S	1654-1656	Granado Bayá J T del	527
Geography	48 60-62	Gravel R E	431
		Grazing	
Amazon basin	103 697	Chile	1167
Brazil	547 t 97	Uruguay	1873
Caribbean region	90	Gt. Brit. British Guiana and	
Colombia	1203 1233	British Honduras Settlement	
Mexico	1636 1651 1751	Commission	41
Peru	1787 1788 1818	Gt. Brit. Colonial Development	
		Corporation	1374
		Gt. Brit. Colonial Off	42
Surinam	1439	Gt. Brit. Dept of Scientific and	
Venezuela	1920	Industrial Research	163
Gerard F	1516-1518		221
Gerry E	155 156	Forest Products Research	
Giacobbi O L	425- 428	Laboratory	152 1346
Giacometto J	1230	Gt. Brit. Imperial Institute	157
Gidden C E	941		930
Gill T	39 797	Gt. Brit. Ministry of Aircraft	
Gill T H	1519	Production	903
Gilmour J D	40 1130 1365	Gt. Brit. West India Committee	
Gleason H A	798 1334 1903	Gt. Brit. West India Royal Com-	
Glossary		mission	27 43
Brazil	544	Greeley W B	44
Glover R G	1131	Green, V. M. R. <u>See</u> Romero	
Gobbato C	799	Green, V. M.	
Godwin F	1520	Greene E C	158
Goldman E A	1076 1701	Greene S B	1133
Gomes P	593 - 596 800		
Gómez, A. S. <u>See</u> Silvani Gómez,			
A.			

INDEX

Item	Item
Greenheart. <u>See</u> Ocotea; Tabebuia.	Gutiérrez I 1529
Greenhouse S 159	Gutiérrez R J 1530
Grenoble University France	Gutiérrez S O 434
	Gutiérrez Roldán E 1531
Griffiths T E 1134	Gutta percha 31 116
Griscom L 985	Guttiferae
Grünberg I 310	Surinam 1425
Guacima. <u>See</u> Guazuma ulmifolia.	Guzman D J 1093
Guadua	H K D 603
Argentina 486	
Guadua angustifolia 1312	Haba. <u>See</u> Hura polyandra.
Guaiacum 212	Habilla. <u>See</u> Hura polyandra.
Guaiacum coulteri 1661	Haedo, F. G. <u>See</u> Gómez Haedo, F.
Guaiacum officinale 1231	Haematoxylon brasiletto 1197
Guaje cirial. <u>See</u> Crescentia alata.	Haertel M H 1136
Gualberto V 600 - 602	Hagebock F N 604
Guanacaste. <u>See</u> Enterolobium.	Hagen, V. W. von. <u>See</u> Von Hagen, V. W.
Guarea 201	Haig I T 1111 1135 - 1137
Guatemala Serv Forestal 1015	Hainsworth R G 45
Guayacán. <u>See</u> Caesalpinia melanocarpa; Guaiacum coulteri.	Hajjar F 1532
Guayaibí. <u>See</u> Patagonula americana.	Hale W F 1138
Guayaquil, Ecuador	Haman M 1367 1900
Chamber of Agriculture 1304	
Chamber of Commerce 1304	Hamilton J V 162
Chamber of Industries 1304	Hancock R 46
Guazuma ulmifolia 1659	Haploclathra 768
Guennard, R. G. M. <u>See</u> Muller	Harding R E 1059
Guennard, R. G.	Hardwoods 1 10 67
Guenther E 801	68 75 121 134 164
Guenther K 160	186
Guerrero Q A 1525	Andes east slope 144
Guerrero S 1526 - 1528	Brazil 549 557 576 702
Guest P L 1058	British Honduras 939
Guilandina echinata 807	Central America 909
	Colombia 1207
	Ecuador 1275
	Mexico 1484 1517 1535 1543
Guillermo de Almeida, D. <u>See</u> Almeida D. G. de.	Hargis O D 103
Guinazu J R 432	Harper J 1037a
Guinier M 161	Harper R M 802 1666
Guinier P 433	Harrison D B 911
Gums and resins 110	Hart A C 986
Brazil 626 650	Hartard Ebert M 1139 1140
	Haskins C P 49
	Hassler E 1768
	Hauman L 435 - 440
	Havrylenko D 441
British Guiana 1362	Haya. <u>See</u> Nothofagus.
British Honduras 930	Hayes H C 131
Mexico 1482	Hazards and risks of exploitation. <u>See</u> Exploitation, hazards and risks.
Paraguay 1761	Heim de Balsac F 1405
<u>See also</u> Naval stores.	Heim de Balsac H 1405
Gunstock wood 814	Helguera G 1853 1854
Gurvich, B. R. <u>See</u> Rosengurtt	Hellmund Tello A 1910
Gurvich, B.	Hendrickson R 1237
Gutiérrez, A. G. <u>See</u> Gómez y Gutiérrez, A.	

		Item		Item
Henius F	50	1803	Hughlett L J	56
Hennessey J F	605	912	Humbird T J	609
Hepp Dubiau R	1141	1142	Hummel C	924 934
Hergert P		803	Hunnicutt B H	610
Heringa P K		7	Hunt L G	1374
Heringer E P		804	Hura polyandra	1659 1661
Hermann F J		165	Hyde K C	169
Hernández, M. A. <u>See</u> Avila			Hylea. <u>See</u> Amazon Hylea.	
Hernández M			Hymenaea courbaril	1216
Hernandiaceae		1436	Hymenolobium	771
Heros O de los		1804		
Herrarte, M. P. <u>See</u> Pacheco			Iglesias F de A	816
Herrarte, M.			Igobone A D	313
Herrera F L	1143	1805-1808	Iguazu National Park, Argentina	298 445
Herrera H		1667		
Herrera, R. J. <u>See</u> Juárez			Imbaré. <u>See</u> Cavanillesia.	
Herrera, R.			Imbuia. <u>See</u> Phoebe porosa.	
Herter W		1855-1857	Imposti V B	442
Herzog T		528	Indians	48
Heske F		51	Industries	7 56 59
Hess R W	148	166 198	62 66 69 82 93	
199 204	205	207 216	102 114 123 124	
Hevea	103	230 559	Argentina 264 267 270	
		999	284 286 301 329 331	
Heyder H M		933	348 349 356 474	
Higbee E C		606	Bolivia 526 538 539 541	
Hill J L		1008	Brazil 562 565 592 593	
Hingston R W G		1368	605 625 690 691 698	
History		78		706
Argentina		348	British Guiana 1347 1364	
Brazil		585 656		1373
British Honduras		926 961	British Honduras 924 934	
Chile		1107	Chile 1126 1129 1136 1137	
Mexico 1519 1522	1568	1600	1150 1183 1187	
		1617	Colombia 1193 1206 1228	
Peru		1805	1236 1264	
Surinam		1428 1433	Costa Rica 1003	
Hoar H M		52 312	Ecuador 1270 1324 1331	
Hochreutiner B P G		1769	French Guiana 1385 1390	
Hodge W H		1809	1408 1415	
Hoehne F C	607	805- 808	Honduras 1045	
Hoffmann C C		1668	Mexico 1455 1485 1491	
Hohenkerk L S		1369-1371	1519 1520 1531 1544 1561	
Holdridge D		1372	1571 1623 1626	
Holdridge L R		1330	Nicaragua 1055 1064	
Holman H E		529	Panama 1084	
Honduras Botanical Garden		1039	Paraguay 1770 1771 1776	
Honduras walnut. <u>See</u> Metopium		brownii.	1777 1783 1784	
Hool A E		1578	Surinam 1439	
Horn E F	53	608 809- 815	Venezuela 1899 1911	
		1305-1307 1330	<u>See also</u> names of specific	
Howard H L		167	industries and products, e. g.	
Hoy H E		1810	Lumber; Plywood; Quebracho	
Hoyer F		168	Inostroza Manosalva P C 1145	
Huberman M A		54 55	Insects	
Huerta Muñoz J M		1144	Mexico 1543	
Hughes J H		1354 1373	Instituto de Conservación y Fo-	
			miento Forestal, Ecuador 1280	

Item	Item
Instituto de Economia Agrícola	1812
1146	61
Instituto de Fomento Forestal	62
Colombia 1201 1202	Juárez Herrera R 1536—1540
Inter-American Conference on	
Agriculture 6	Juglans 217 1756 1794 1840
1st Washington 18	Jumelle H 172
2nd Mexico City 15	Juniperus 1682 1726
3rd Caracas 111	Junker L 1433
4th Montevideo 32	Kalela E K 173 174
Inter-American Conference on	Kanter H 443 536
Conservation of Renewable	Karling J S 175 1009
Natural Resources, Denver 57	Karsten G 447 996 1014 1721
Inter-American Council of Com-	Katze M B 1541
merce and Production 58	Kauffman E 63
Inter-American Development	Keatley R D S 32
Commission 59 336 995	Kerr G A 176
1206 1533 1770 1811 1911	Keshen A S 1542
Technical Mission to Paraguay	Ketelhut F 1670
1770	Kilns
Ecuador	1327
Inter-American Highway 978	Kinloch J B 937 1010 1060
Inter-American relations	Kircher J C 618 619 819
85 92	Klabin paper mill, Brazil
International Bank for Recon-	630
struction and Development 1193	Klein M A 1771
International relations	Kluge H C 1077 1434
Inventories. <u>See</u> Surveys; Valua-	Knoche W 820 1149
tion; Volumes.	Knoth R F 64
Iribarren S 1858	Knox J 565
Irmay H de 530— 535	Knuchel H 1813
Isbell J E 1912	Koch F 1011
Islip H T 935	Koehler A 65
Ixta-Popo National Park, Mexico	Koning de 1435
1735	Koppel C van de
Jacaranda 198 511	177
Jacaranda copaia 1378	Koscinski M 620— 622 821
Jacaratia 224	822 823
Jacaré. <u>See</u> Piptadenia com-	Kostermans A J G H 1436
munis.	Koutché V 444 445
Jacob C 171	Kover P A 1094
Jaffuel F 1147	Kramer J H 1239
Jaimes, J. S. <u>See</u> Segura Jaimes,	Kuhlmann J G 824
J. J.	Kuhlmann M 825 876
James L W 936	Kühn E 876
James P E 60 615 616	Kühn F 446 447
818	Kuylen H 1021 1259
Jangada. <u>See</u> Apeiba tibourbou.	Labouriau L F G 826
Janis D C 315	Lachner V 987
Jaramillo, J. M. D. <u>See</u> Duque	Ladders 840
Jaramillo, J. M.	Laffitte J C 1859 1863
Jaramillo Sierra B 1238	Lafoensia glyptocarpa
Jatropha 1216	842
Jirkal Hoffmann J 1142 1148	Lamas, J. M. <u>See</u> Martínez
Jobim J 617	Lamas, J.
Jobo. <u>See</u> Spondias mombin.	Lamb A F A 938— 940
Joerns A 1534 1535 1669	Lamb F B 66
Johansen H 1078	Lamb G N 178— 180
	Lamb W H 1671
	Land 120
	Argentina 271 357

<u>Item</u>	<u>Item</u>
Land--Cont.	
Brazil 557 636 679 691	Laws and regulations--Cont.
British Honduras 927	Brazil 585 639 645 658
Chile 1110 1152 1156	659 687 708 797
classification	British Guiana 1356
Mexico 1577 1617	British Honduras 941
clearing	Chile 1145 1146 1150 1168
Chile 1159	Colombia 1192 1200 1202
Mexico 1608	1228 1236 1240 1245 1251
Paraguay 1786	1265 1266
collective	Costa Rica 981 987 991
Mexico 1487 1504 1539	Ecuador 1293 1318 1324
1577 1610	French Guiana 1409
Colombia 1196 1238	Guatemala 1006
Ecuador 1282	Guianas 1429
Guatemala 1015	Honduras 1036
tenure	Mexico 1464 1473 1481
Mexico 1501	1486 1501 1512 1514 1519
utilization 26 32 57	1525 1526 1533 1542 1568
60 89 115 118 119	1569 1570 1572 1573 1581
Brazil 569 679 891	1605 1607 1620 1626 1629
Chile 1123	Nicaragua 1052
Colombia 1193	Panama 1072
Costa Rica 979 988 995	Paraguay 1763
Ecuador 1301	El Salvador 1090
Panama 1075	Uruguay 1869 1876 1882
Venezuela 1926	Venezuela 1893 1917
Venezuela 1940	<u>See also</u> Policies and pro- grams.
Lang D M 1543	Leahy J G 828
Lanjouw J 1437	Leão Filho A E de 624
Lapacho negro. <u>See</u> Tabebuia ipe.	Leavenworth W C 1672
Lapi G 1406	Lebedeff N 453 454
Lardner G B S 623 827 1337	Le Cointe P 625 626 829
Lasser T 1913	830
Latex	Lecomte H 1407
Guatemala 1005	Lecythidaceae 1425
Latham B 67	Ledoux P 627 628 844
Latin American Conference on Forestry and Forest Products, Teresopolis Brazil 68 69	Lee J A 629
686 700	Lee L 831
Latin American Forest Re- sources Project in Costa Rica	Lefèvre L 1405
989	Legislation. <u>See</u> Laws and regulations.
Latin American Forestry and Forest Products Commission	Legrand D 1860
71	Leguminosae 165 382 765
Latzina E 448-452	766 1219
Lauraceae 199 498 1436	Lella E. F. di 316
Laurel. <u>See</u> Laurelia aromatica.	Lemos Froes R de 832
Laurelia aromatica 242 1146	Lenga. <u>See</u> Nothofagus pumi'io.
Laws and regulations 66	Lenz H 1545 1633
69 73 86 1126	Leon J 988
Argentina 276 299 307	Leonardis R F J 455
311 326 348 457	Leopold A S 1673
Bolivia 526	Leschner F 317 833 1150
	LeSueur H 1674
	Levin E E 630
	Lewy van Séveren M 1095

INDEX

	<u>Item</u>		<u>Item</u>
Lezama Michel R	1546	Lucuma	774
Libidibia coriaria	138	Ludy A K	1036
157	147	Luehea divaricata	825
253	1640	Luetzelburg P von	835-
1894	1897	Lumber	837
1951		Brazil	123
1660		592	642
1661		677	688
402		690	695
402		695	869
Libocedrus chilensis		Bolivia	526
Licensing		Chile	1148
Colombia	1240	Colombia	1264
Lichy R	1914	Costa Rica	992
Light-weight woods	169	industry	122
	214	56	72
	224	Argentina	259
Lignum vitae. <u>See</u> Guaiacum		Brazil	554
officinale.		584	585
Lima D A	852	598	599
Lindoso J	631	602	620
Lindsay W R	1079	651	662
Lingue. <u>See</u> Persea lingue.		781	797
Liquidambar styraciflua	1715	811	819
	1722	British Guiana	1371
Little E L	1308-1310	British Honduras	941
Ljungner E	1330	Chile	1126
	456	1101	1122
Löbbecke H		1140	1145
Lofgren A		1148	1155
Loggers		Colombia	1176
Surinam	1434	Ecuador	1239
Logging	38	Guatemala	1298
Argentina	39	Honduras	1006
	66	Mexico	1029
176	323	1459	1484
Chaco		1517	1518
	357	1525	1542
Misiones		1555	1561
	324	1566	1573
Parana basin	306		1574
Brazil	576	Panama	1586
651	690	Paraguay	1620
Amazon basin	604	Peru	1075
	697	Venezuela	1774
Ford plantations	667		1289
Parana pine region	641		1298
	683	1886	1905
Pernambuco	655	1911	1912
British Guiana	1346	Mexico	1947
	1349	1458	1467
	1371	Venezuela	1506
British Honduras	914	Lumbering	1520
	927	Bolivia	1930
	944	Brazil	525
Central America		587	609
	947	690	623
		702	845
911		British Guiana	1206
Colombia	1218	British Honduras	979
Costa Rica	984	Chile	1189
	986	Colombia	1381
	997	Costa Rica	926
	999	Ecuador	1223
Ecuador	1324	French Guiana	1008
	1327	Guatemala	1384
Guatemala		Honduras	1409
	1006	Mexico	1535
Honduras		1530	1534
	1048	Chihuahua	1553
Mexico	914	Durango	1521
	1580	Quintana Roo	1552
Venezuela		Yucatán	1471
	1949	Paraguay	1550
See also Lumbering.		Peru	1690
Lohner L A	1772		1789
Loock E E M	1547		1795
Lopes L S	633		
Lopez E D	1853		
Lopez, E. O. <u>See</u> Oxford Lopez,	1861-1865		
E.			
Loya, A. U. <u>See</u> Uranga Loya, A.			

Item	Item
Lumbering--Cont.	
Surinam	1426
See also Exploitation; Logging.	
Luncz G	73
Lundell C L	913 942 943 1013 1676
Lussich, C. del C. See Castillo	
Lussich, C. del.	
Luttringer A D	74
Lysiloma	1716
Maack R	636 888
Machaerium	200
Madueño R R	318 457
Maguire B	1438
Maguire E G	841
Mahogany. See Swietenia.	
Maige A J	1153
Mainieri C	857 858 860
Maischaider A F	131
Malagutti G	1936
Maldonado B E	1154 1155
Malpighiaceae	1436
Man	
effects on forests	39 118
Amazon basin	784
Argentina	437
Brazil	753
Mexico	1628
Management	105 115
Argentina	284 341
Brazil	574 881
British Guiana	1342
British Honduras	940 949
Chile	1115 1130
Ecuador	1330
Mexico 1455 1459	1539 1560
1571	1610 1648
Chihuahua	1504 1576
Durango	1605
Jalisco	1580
México (State)	1506
Michoacán	1528
Puebla	1619
Surinam	1428
Venezuela	1902 1943
Manbarklak. See Eschweilera.	
Mangrove	147 153 157 183 231 253
Brazil	231 711 730 755
Colombia	1206 1212
French Guiana	1411 1420
Mexico	1622 1659 1667
Venezuela	1894 1910 1951
See also Avicennia; Conocarpus; Rhizophora.	
Manifold C B	103 637
Manil. See Symphonia globulifera	
Manilkara	206 769
Mañúí. See Podocarpus.	
Manosalva, P. C. I. See Inostroza Manosalva, P. C.	
Manwood. See Minquartia guianensis.	
Manzi F	458
Maps	3 4 7 36 60 125 216
aerial	222 283
Araucaria angustifolia	757
Argentina	283 389
fuelwood	364
Mimosa	381
Quebracho	303
Schinopsis balansae	376
Bolivia	435 528
Brazil	435 572 675
Northeast	744
Paraná	900
British Guiana	591
British Honduras	818 1347 923 928
Chile	1742 435
Costa Rica	990
Ecuador	1301
French Guiana	1410 1421
Gran Chaco	443
Guatemala	1032
Mexico	1513 1515 1547
1584 1595 1636 1672	1673
Baja California	1684 1700
Chihuahua	1641
Northwest	1642
Sonora	1655
Nicaragua	1055
Panama	1075
Paraguay	435 1770 1771
1777	1784
Peru	1809 1837
El Salvador	1085 1091
Surinam	1432
Swietenia	908 1810
Venezuela	1907 1931 1945
Bolívar	1944
Isla de Margarita	1948
Orinoco basin	1903
Portuguesa	1943
Marbut C F	103 637
Marchenay L	1408
Marco H F	183
Mares Esparza H	1553
Marianno J	638
Marietti J W	319

INDEX

	Item	Item
Markets and marketing	80	Mello S de
Brazil	101 112	641 Mello Barreto, H. I. de. <u>See</u>
British Guiana	839	Barreto, H. I. de M.
Chile	1349	Melo G
Mexico	1118	642 Melville R
Nicaragua	1485 1523 1548	188 Ménager H
Venezuela	1054	189 Mendes J A
Markham W A	1886	643 Mendez S B
Marrero J	944	321 Mendizabal L Q
Martin C	1313 1314	1688 Menendez, E. F. <u>See</u> Fontana y
Martin R R	1156	Menendez, E.
Martínez, A.A. <u>See</u> Alcoba	459	Menezes, A. I. de
Martínez, A.		843 Méniaud J
Martínez, J. G. <u>See</u> García		1409 1410 Merindiba. <u>See</u> Lafoensia
Martínez, J.		glyptocarpa.
Martínez M	1677-1687	Merker C A
Martínez Baca R	1554	989 990 Metello A
Martínez García J	1555	644 Metopium brownei
Martínez Lamas J	1866	217 Metzgen M S
Martins R	639	946 Mexico. Comisión Federal de
Masey, D. D. <u>See</u> Demaria		Planificación Económica 1557
Masey, D.		Mexico. Dept. Forestal y de
Matallana R P B de	1915	Caza y Pesca 1559 1596
Maté. <u>See</u> Yerba mate.		Off. de Economía y Estadística
Mathews C	1102	1558 Serv. de Conservación Forestal
Mato, F. R. <u>See</u> Rosa Mato, F.		1689 Mexico Dirección Forestal y
Matta, J. G. <u>See</u> Gendarillas		de Caza 1561
Matta, J.		Mexico Dirección Forestal y
Matthei A	1157 1158	de Caza y Pesca 1560 1562
Matthews W S A	935	Mexico Dirección General de
Mattos Filho A de	826	Estadística 1563
Mauto. <u>See</u> Lysiloma.		Mexico Dirección General Fo-
May E S	945	restal y de Caza 1564 1565
Mayans J J	1038	Mexico Secretaría de Agricul-
Mayer H A	1917	tura y Ganadería 1565
Mayer-Reinach C	77	Meyer H 190
Maytenus boaria	518	Meyer H A 81 1567-1570
McBride G M	1152	1690 1691
MacBride J F	1841	Meyer T 460- 465
McCarty G	181	Meyer Rusca W 1159
McClure F A	1311 1312	Mezey E 322
McConnico A J	1061	Mezzottoni C 1867
McDougall W B	1753	Michaelsson G 323 324
McGillicuddy B H	1549	Michel, R. L. <u>See</u> Lezama
McGinnis D R	635	Michel, R.
McKellar A D	75	Michigan-Carnegie Botanical
MacKenzie H B	1467	Expedition 942
McKinley T W	1085 1096	Middle America Information
McManama G P	1550	Bureau 905 915 916
McMullen W H	1551	Midkiff H M 706 1241
Medina V A	1471 1550	Milans J 1870
Meliaceae	201 1229	Mille L 1315
Melillo A C	320	Miller D 1160
Mell C D 78 79 98 184	185- 187 640 1080 1556	Miller W A 947
	1916	Milpa. <u>See</u> Agriculture, shift-
Mello O S	842	ing.

		Item		Item
Mimosa	381	639	806	Names. See Nomenclature.
Mimusops. <u>See</u> Balata; Manilkara.				Nascimento F M do
Mine timbers				647
British Guiana		1371		Nash R
Mexico	1689	1716		648
Peru		1798		National parks. See Parks and reserves and names of specific parks.
Minquartia guianensis		1081		National Pine Institute. See Brazil. Instituto Nacional do Pinho.
Miramontes, F. F. <u>See</u> Foglio				National Research Council
Miramontes, F.				Highway Research Board
Miranda F	1692-1697	1712		229
Miranda Bastos, A. de. <u>See</u>				Nauhcampateptl National Park,
Bastos, A. de M.				Mexico
Mixed forests	68	1673		1746
Molestina O E		1316		Naval stores
Monsanto L E		1918		76
Montalegre M R		991		Brazil
Montenegro L B		646		692
Montero Gomez J	992	993		British Honduras
Montgomery E T		30		935
Monticelli J V		466		Mexico
Mora	1363	1371	1440	1458 1482 1497 1507
Moraceae		205		1514 1520 1528 1541 1543
Moral C del		1571		1578 1602 1603 1614 1630
Morales, I. R. <u>See</u> Rivera				1672
Morales, I.				Nicaragua
Morales y Sánchez A		1039		1061
Moreau, R. A. P. <u>See</u> Pérez				Navarro de Andrade E
Moreau, R. A.				649 670 846 847
Moreno Villanueva A		1572		Navarro Estrada C
Morton F		1014		325
Mosquitoes				Navez A
Brazil		756		848
Moulds F R		191		Nazarit C E
Muirapiranga. <u>See</u> Brosimum; Eperua; Haploclathra.				1162
Muller C H	192	1698	1699	Nectandra
Muller J L	1573	1574	1814	199 498 762
Muller Guennard R G		467		782
Mullerried F K G		1575		Neira S B
Mullin J		1364		1163
Muñoz E F		468		Neiva A
Muñoz, J. M. H. <u>See</u> Huerta				849
Muñoz, J. M.				Nelson E W
Muñoz, R. R. <u>See</u> Rodríguez				1700 1701
Muñoz, R.				Nelson M E
Muñoz Aguilar E		1576		1520
Muñoz Pizarro C		1161		Nelson Smith J H
Museo Comercial				948- 950
Venezuela		1928		Nerling O
Mussolini poplar				193
Argentina		404		Netto F F
Myer J E		1330		650
Myers J G	845	1375		Neverman F
Myristica. <u>See</u> Virola.				994
Myroxylon balsamum		1679		New York Botanical Garden
Najera E G	1577	1772		Tropical Expedition to
				Surinam
				1438
Newsprint				Neverman F
Argentina		319	347	New York Botanical Garden
Brazil			630	Tropical Expedition to
Nicaragua mission. <u>See</u> under Food and Agriculture Organization of the United Nations.				Surinam
Nicaraguan pine. <u>See</u> Pinus caribaea.				1438
Nix L A				Neverman F
Nogal. <u>See</u> Carya; Nut trees.				New York Botanical Garden
Nomenclature	134	145	170	Tropical Expedition to
	190	216	254- 256	Surinam
Argentina				1438
Brazil	750	759	824 858	Neverman F
			860 890	New York Botanical Garden
Amazon basin				Tropical Expedition to
Bahia				Surinam
Distrito Federal				1438
Minas Gerais				Neverman F

Nomenclature--Cont.	Item	Nystrom J W	Item
Brazil--Cont.			1439
Paraná	639	Oak. <u>See</u> Quercus.	
Rio de Janeiro (State)	872	Ochoterena I	1702
Rio Grande do Sul	778	Ochroma 127 143 159 194	
São Paulo	846 856	195 197 203 224 228	
Tapajoz river valley	772	232 239 242	
	887	British Honduras 930 967	
British	167	Colombia 1231 1256	
British Guiana	1361 1367	Costa Rica 989	
British Honduras	960	Ecuador 1289-1291 1298	
Chile	1105	1303 1304 1333	
Colombia	1227 1228	Ochroma lagopus 136	
Ecuador	1272 1287	Costa Rica 994 1003	
French Guiana	1386 1419	Ecuador 1307 1318 1327	
Guatemala	907 1022	Ocotea 152 199 498 762	
Honduras	907	1335 1410	
Mexico	1481 1652	Ocotea pretiosa 801	
Guerrero	1689	Ocotea rodiae 164 1363	
Oaxaca	1697	1371 1382 1430	
Puebla	1712	Ocotea rubra 187	
Tehuantepec	1758	Ocotea suaveolens 1772	
Yucatán	1750	Oils and waxes	
Panama	1068	Brazil 650 801 829 861	
Paraguay	1771	Colombia 1256	
Peru	1805 1808	Mexico 1458 1520 1759	
El Salvador	1087	Oitaven A V 328	
Surinam	1425 1441	Olacales 208	
Venezuela	1900 1919	Oliphant F M 1376	
	1953	Oliphant J N 951- 956	
Noriega Calmet E	1815 1816	Oliveira, A. P. de 654 655	
Normand D	1395	852	
Noronha H	850	Oliveira B de 656 853	
Norton E	651	Olmos Castro A 329 330	
Nothofagus		Oregon State College, School of	
Argentina	415 425	Forestry 697	
Chile	1109 1114	Orellana H 1300	
Nothofagus dombeyi	219	Orellana B R 1318	
Nothofagus procera	242 1106	Orey. <u>See</u> Campnosperma panamensis.	
Nothofagus pumilio	369	Organization for European Economic Cooperation 83	
Novelo, N. S. <u>See</u> Souza Novelo, N.		Ortega, J. G. <u>See</u> González, Ortega, J.	
Noverraz M	326 1773	Ortega M 84	
Nunes Pereira A	653	Ortiz Garmendia J 1165-1169	
Núñez J R	327	Orton W A 657	
Nurseries		Osborne L de J 1097	
Argentina	278 307	Owens J M 854	
Chile	1153	Ownership	
Mexico	1565	Chile 1101 1126	
Nut trees		Colombia 1196	
Mexico		Ecuador 1324	
Coahuila	1649	Guatemala 1006	
Nuts		Honduras 1036	
Brazil	692 780	Mexico 1463 1501 1514 1527	
Mexico	1649	1554 1559 1561 1565	
Surinam	1452	Nicaragua 1055	
Nyssa	1696		
Nyssa sylvatica	1722		

<u>Item</u>	Item
Ownership--Cont.	
Paraguay 1763 1771 1775	520
Uruguay 1871 1873	1170
Oxford-Lopez E	399
Oxford University. Expedition to British Guiana	1920
Oxford University. Imperial Forestry Institute	1368
Oyamel. <u>See</u> Abies.	139
 Pacará de Segurola. <u>See</u> En-	
terolobium contortisiliquum.	
Pacheco M	1085
Pacheo Herrarte M	1016
Pack Foundation. <u>See</u> Charles Lathrop Pack Forestry Trust.	
Palétuvier. <u>See</u> Mangrove.	
Palms	1553 1648
Palo amarillo. <u>See</u> Euphorbia fulva.	
Palo colorado. <u>See</u> Brasilettia platyloba.	
Palo prieto. <u>See</u> Celaenodendron mexicanum.	
Palo santo. <u>See</u> Bulnesia sarmi- enti.	
Pan American relations. <u>See</u> Inter-American relations.	
Pan American Union. Div of Agricultural Cooperation	86
Conservation Sect	1581 1631
Panshin A J	798
Pão mulato. <u>See</u> Calycophyllum.	
Parana pine. <u>See</u> Araucaria an- gustifolia.	
Paratecoma	782
Parcouril. <u>See</u> Platonia insignis.	
Paredes C A	1319 1320
Pareja Paz Soldán J	1818
Paris F W	1775
Parker L H	88
Parks and reserves	84 86
Argentina	227 344 445
	479
Brazil	598 627 628
Chile	1161 1179
Colombia	1240 1247 1266
Mexico	1466 1483 1490 1503
	1519 1563 1575 1587 1589
	1593 1611 1632 1635 1718
	1735 1742-1747
Panama	1069
Uruguay	1845
<u>See also</u> names of parks and reserves.	
Parodi L R	439 470-477
Parres J	1582
Pascacio Gamboa R	1583
 Pasquo E di	
Pastor V	1170
Patagonula americana	399
Patch farming. <u>See</u> Agricul- ture, shifting.	
Paternosto P G	331
Patino P	1584
Pau brasil. <u>See</u> Guilandina echinata.	
Pau-novo. <u>See</u> Sessea brasili- ensis.	
Pau-rosa. <u>See</u> Aniba rosaeo- dora.	
Paulo R D de G	855
Pavan C	731
Paving blocks	1371
Payne B H	1136
Paz Soldán, J. P. <u>See</u> Pareja	
Paz Soldán, J	
Pehuen. <u>See</u> Araucaria arau- cana.	
Peltogyne	770 1363
Peltogyne pubescens	1346
	1352
Peña M T de la	1585
Peña R	537
Pennell F W	1242
Percival T B	1440
Pereira, A. N. <u>See</u> Nunes	
Pereira, A.	
Pereira H	856
Pereira J A	857-860
Pereira O D	658
Pereira S	659
Pereira Brasil R	660
Pérez Alvarado E V	1819
Pérez Arbeláez E	1243-1247
Pérez Moreau R A	394 478
	479
Pérez Salazar H	1248
Perfume woods	626 650
	692 728 796
Pernambuco (State) Serv de Inspeção Florestal	654
Pernambuco (State) Serv. Flo- restal	680
Peroba rosa. <u>See</u> Aspidosper- ma.	
Perret G	332 480 1921
Perseae lingue	
Chile	1190
Peru Dirección de Coloniza- ción y Asuntos Orientales	1820
Pesce C	861
Pests	
Brazil	586
Peters K	1171

			<u>Item</u>			<u>Item</u>
Peterson L E	89	995	1776	Plantations--Cont.		
			1777	Canal Zone	1079	
Pfeiffer J P		1441	1442	Chile	1108	1130
Phoebe		199	498		1153	1175
Phoebe porosa	217	639	748	Costa Rica		1191
		803	904	Guatemala		1003
Phytelephas			1285	Uruguay	1849	1861
Pianos						1010
Brazil			613			1864
Picea chihuahuana			1683	Platonia insignis		1884
Pickel B J		632	661	Platt R R	90	1398
Pico J A			481	Platt R S		1812
Pierce J H			194	Playter H		91
Pilar Rodrigo A del			482	Plywood		1061
Pine. <u>See Araucaria</u> ; <u>Pinus</u> .				Argentina	278	291
Pinedo V M			1822		317	316
Pinheiro E C		662	862	Brazil	567	592
Pinheiro do Paraná. <u>See Arau-</u>					690	612
<u>caria angustifolia</u> .					695	652
Pino R A R del			483	British Guiana		740
Pino de Misiones. <u>See Arau-</u>				Central America		1350
<u>caria angustifolia</u> .				Chile		910
Pino del Neuquén. <u>See Arau-</u>				Mexico		1106
<u>caria araucana</u> .				Surinam		1185
Pinto G S			663			1484
Pinus						1629
British Honduras			1547			1448
defects						
Mexico	1507	1543	1578	Podhorsky I		863
Guatemala			1030	Podocarpus	242	736
Mexico	1457	1459	1482	Policies and programs		12
1506	1511	1514	1543	32	36	54
1605	1615	1638	1647	57-59	68-71	55
1675	1684	1746	1757	86	92	82
Uruguay			1884	94	111	83
Pinus caribaea			957	Argentina	54	223
British Honduras	928	935		270	286	1776
Honduras		940	976	307	310	261
Nicaragua		1054	1037	326	346	325
Pinus radiata			1061	348	349	355
Piptadenia			1108			357
Piptadenia communis				Bolivia	54	525
Piptadenia macrocarpa				Brazil	54	538
Piptadenia rigida			738	548	562	563
Piratinera			1777	580	581	558
Pisano Valdes E	1161	1172	205	618	628	558
Pithecellobium tortum			783	633	645	681
Pittier H	1900	1922-1934	1777	656	658	648
Pizarro, C. M. <u>See Muñoz</u>				665	682	689
Pizarro, C.					708	689
Plan Quinquenal						797
Argentina		349	350	Amazonia		593
Plantations				Ceará		558
Argentina	278	287	321	Maranhão		558
371	419	433	509	Northeast		681
Brazil			670	Paraíba		577
British Honduras			949	Pernambuco	654	655
					661	680
				Santa Catarina		552
				São Paulo		673
				South	672	686
				British Guiana	27	700
				54	1344	1356
				1369		1376
						1380
				British Honduras	27	41
				922	931	934
				938		952
				954	955	959
				969		971
				British Possessions		22

	<u>Item</u>				<u>Item</u>
Policies and programs--Cont.				Poualion M	1411
Chile	54	1107	1112	Poulsenia	238
1126	1127	1135	1136	Pozo Rodríguez P del	1249
1145	1173	1178	1179		1250
			1776	Prado O de A	664
Colombia	1192	1193	1196	Precious woods	
1199	1201	1204-1206	1235	Argentina	514
1238	1240	1248-1251	1253	Brazil	790
		1256	1260	British Guiana	1352
Costa Rica	54	978	987	Colombia	1256
		990	991	Mexico	1644
			995	1650	1711
Ecuador	1278	1280-1282		Panama	1066
	1296	1300	1302	El Salvador	1086
French Guiana			1330	Venezuela	1918
Guatemala	1012	1015	1776	Preissig R	1412
Mexico	54	1455	1458	Preservation	
	1468-1470	1477	1491	Central America	1456
	1521	1523	1543	Chile	1180
	1562	1564	1567	Mexico	1456
	1594	1597	1598	Venezuela	1886
	1610	1621	1631	Presnall C C	1753
Chihuahua			1632	Pretel Vidal A R	1823
Durango				Primavera. <u>See</u> Cybistax donnell-smithii.	
Méjico (State)				Production	
Puebla		1588	1619	Brazil	562
Tlaxcala			1617	British Honduras	941
Nicaragua				Central America	912
Panama				Chile	1139
Paraguay	1767	1771	1776	1140	1145
Peru	54	1813	1826	1145	1183
Ica					1190
Tingo Maria			1815	Ecuador	1304
El Salvador			1820	Guatemala	1006
Surinam	54	1422	1424	Mexico	1460
		1428	1432	1465	1487
Uruguay	1850-1852	1854		1509	1492
	1858	1859	1873	1511	1554
			1878	1558	1568
			1879	1582	1600
				Peru	1817
			1881	See also Statistics.	
Venezuela	54	1776	1905	Products	39
	1906	1907	1909		46
			1917		50
			1928		69
			1939		
			1945-1947	84	216
Polygonaceae				Argentina	270
Surinam					348
					409
					458
Popenoe W	917	1017	1018	Brazil	570
		1040	1321		572
					575
					677
Poplar. <u>See</u> Populus.					692
Populus					698
Argentina	287	372	388	Amazon basin	643
		404	493		650
					829
Chile		1108		Amazonas	631
Uruguay		1868		British Guiana	108
Porsch O		996		1362	1367
Porto, P. C. <u>See</u> Campos Porto, P.				British Honduras	108
Portuguesa (Venezuela) Serv.				924	929
Forestal		1947		Chile	930
Posts		264	692	1125	946
Pouderoux R			195	1136	1187
				Colombia	1193
				1195	1198
				1240	1251
				1241	1256
					1257
					1264
				Costa Rica	993
				Ecuador	995
				1262	1284
					1333
				French Guiana	1403
					1404

INDEX

	<u>Item</u>		<u>Item</u>
Products--Cont.		Pulpwood--Cont.	
Honduras	1039	British Guiana	108 1340
Mexico	1458 1463	1348 1371	1377
1521	1558 1559	British Honduras	925 963
	1561	Chile	1174
	1563	Colombia	1256
	1565	French Guiana	1411 1420
Baja California	1467	Guianas	1339
Campeche	1494	Mexico	1457 1486
Michoacán	1500	1506 1580	1646 1653
West	1467	Panama	1082
Nicaragua	1055	Paraguay	1761
Paraguay	1761	Peru	1790 1802
Peru	1800	Uruguay	1849 1868
	1817	<u>See also</u> Pulp and paper.	
El Salvador	1824	Purdue University. Dept of	
Surinam	1838	Forestry	910
Venezuela .	1891	Purpleheart. <u>See</u> Peltogyne	
	1895	pubescens.	
	1902	Qualea	152 1410
	1907	Quebracho	9 172 176
Amazonas	1936	312 315	322 340 359
Guiana	1953	Argentina	189 268 269
Llanos	1897	274 286	302 314 323
Orinoco basin	1898	335 336	341 348 358
<u>See also</u> names of products,	1910	378	408 429 431
e. g. Charcoal; Lumber.		Brazil	692 864
Prosopis	467	Paraguay	431 1762 1773
Prosopis alba	1815		1783
Prosopis caldenia	438	stocking	429
Prosopis juliflora	444	<u>See also</u> Schinopsis.	
Protection. <u>See</u> Depletion and	466	Quebracho blanco. <u>See</u> Aspidosperma quebracho-blanco.	
devastation; Fires; Insects;	1755	Quebracho colorado. <u>See</u> Schinopsis lorentzii.	
Policies and programs.		Quercus	192
Pseudotsuga	1686	Central America	978 1026
Pugno P	334	Guatemala	1026
Pulle A A	1443	Mexico	1536 1757
Pulp and paper	17	property comparisons	702
Argentina	123	Quercus copeyensis	978 982
Brazil	266	Quevedo M A de	92 1589
British Guiana	617	1590-1600	1703-1707
industry	664	Quillaja saponaria	1168
Argentina	56	Quillay. <u>See</u> Quillaja saponaria.	
Brazil	293	Quintanar F	1601
611	551	Quinteros M	1871-1873
	621	Rafalski J	865
	629	Ragonese A E	485- 491
	630	Raibaudi M	1413
Ecuador	699	Railway ties. <u>See</u> Ties.	
Mexico	1268	Railways	
	1457	Mexico	1505 1546 1579 1625
	1489	Rain forest	37
	1532	British Guiana	1341 1358
	1545	Colombia	1194
Mexico	1580	Costa Rica	977
Pulpwood	1520		
	1545		
	168		
	215		
	235		
	241		
	248		
	718		
Argentina	278		
342	293		
	347		
	404		
	412		
	507		
	516		
Brazil	519		
551	570		
677	585		
	694		
	707		
	795		
	855		
	871		
Amazon basin	883		
	556		
	724		
	725		
Pará	626		

	<u>Item</u>		<u>Item</u>	
Rain forest--Cont.		Renaud M	1415	1416
Panama	1067	Rendle B J		220
Venezuela	1887 1902	Rendle J		221
Raizada M B	197	Reproduction. <u>See</u> Regeneration.		
Rambo B	866 1874	Research	15 66	148
Ramírez, G. U. <u>See</u> Uribe				166
Ramírez, G.				
Ramírez R	1175	Caribbean area		16
Ramírez Cantu D	1708	Mexico	1459	1540
Rancourt E de	867	Surinam	1424	1432
Ranghel Galindo A	93 1192 1252-1257	Resins. <u>See</u> Gums and resins.		
Rauli. <u>See</u> Nothofagus procera.		Resources	5 13	19
Rawitscher F K	868		25 26	32 33
Razous P	1414		39 53	57 65
Recalde de la Espriella V	1258		69 70	77 82
Recart H	1055 1176-1180		88 98	114 120
Recke Graf	997	Amazon basin		125 45
Record S J	95- 100 184 198- 218 869 958- 960 963 1019-1021 1041 1062 1077 1081 1082 1259 1378 1709 1924 1935	Argentina	270 289	301
Reeseman Fryer E	538		313 332	359
Reforestation	348	Misiones		281
Argentina	280 282 337 341 346 350	Santiago del Estero		330
Buenos Aires (Prov)	338	Bolivia	526 529	533 538
Nahuel Huapi area	454	Brazil	565 566	588 590
Pampas	481		620 657	678 699
San Luis	432	Amazon basin		706
Brazil	585 586 596	Argentina	561	650
Alagoas	646		697	719
Amazon basin	643	Espírito Santo		838
Bahia	642	Jequitinhonha River basin		
Minas Gerais	550 676			685
Chile	1102 1107 1108 1115 1119 1138 1142 1144 1163 1169	Minas Gerais		553
		São Paulo		620
Colombia	1251	British Guiana	22	42
Ecuador	1300 1302		1343 1347	1370 1373
laws and regulations	73	British Honduras	22	42
Mexico	1479 1490 1522		931 936	961 962
Peru	1816 1823	Caribbean region		90
El Salvador	1085	Central America	910	916
Uruguay	1867 1873 1882	Chile	1101 1111	1113 1117
Venezuela	1886 1946 1947		1125 1128	1129 1136
Regeneration				1137 1176
Brazil	794	Colombia	1203 1214	1228
British Honduras	940		1236 1237	1257
Chile	1167 1172	Costa Rica	977 987	990
Mexico	1543		1000 1004	
Venezuela	1901	Ecuador	1274 1275	1301
Reichard E C	1778 1785		1305 1306	1330
Reiche C	1602	European interest	51	1912
Reiche K	1710	French Guiana		1417
Reichert F	219	Guatemala		1006
Reko B P	1616	Honduras		1042
		Mexico	1463 1470	1480 1509
			1510 1520	1543 1557
			1574 1599	1600 1601
		Baja California		1700
		Campeche		1555
		Jalisco	1495	1580
		Michoacán		1500

	<u>Item</u>	<u>Item</u>
Resources--Cont.		
Mexico--Cont.		
Papaloapan	1460	1461
Sonora	1604	
Tlaxcala	1616	1617
Nicaragua	1052-1055	1060
Panama		1075
Paraguay	1770	1771
Peru	1788	1800
El Salvador		1100
Surinam	1428	1450
United States interest	1	26
30	44	63
		107
		218
		678
		1275
Uruguay	1854	1863
Venezuela	1886	1912
Bolivar		1920
Llanos		1905
Trujillo	1892	1945
Resources of the Empire Series		108
Restingas		
Brazil		755
Reunião Brasileira de Florestas e Produtos Florestais, 1st		665
Reuter L.		1603
Reyna, A. C. <u>See</u> Coll Reyna, A.		
Rhizophora mangle	1622	1659
<u>See also</u> Mangrove.		
Rhizophoraceae		183
Riascos, L. C. C. <u>See</u> Cruz		
Riascos, L. C.		
Rich J L	222	870
Richards P W	139	1358
Rimbach A		1322
Río Blanco-Barranca de Metlac National Park Mexico		1747
Rivera Morales I		1712
Roads		
Mexico		1496
Robert F		1607
Robey J M		30
Roble		249
<u>See also</u> Nothofagus.		
Rodrigo, A. del P. <u>See</u> Pilar		
Rodrigo, A. del.		
Rodrígues Alves, D. <u>See</u> Alves, D. R.		
Rodríguez, P. del P. <u>See</u> Pozo		
Rodríguez, P. del.		
Rodriguez Muños R	1605	1606
Rodriguez R F		998
Rohmeder G	446	492
Rovainen H		1181
Rojas T	1764	1779
Rojas U		1022
Roldán A	1713-1715	
Roldán, E. G. <u>See</u> Gutiérrez		
Roldán, E.		
Romero E		1824
Romero, F. G. <u>See</u> Gómez		
Romero, F.		
Romero G		1780
Romero J G		1782
Romero Green V M		1716
Roque J M		1023
Rosa Mato F		1856
Rosengurtt Gurvich B		1875
Rosewood. <u>See</u> Dalbergia.		
Rössl H		1825
Rotary Club, Colombia. <u>See</u>		
Rodríguez		
Rothkugel M	297	298
	411	493
Rowe L S		223
Rowlee W W		224
Rubber. <u>See</u> Hevea; Latex; Manilkara.		
Rubbo R		1870
Rubens E		1182
Rue J D		248
Ruhle K		225
Ruiz C		1183
Ruiz Alarco F		1826
Rusca, W. M. <u>See</u> Meyer Rusca, W.		
Russell A		1717
Russell E D		666
Russell J A		667
Rutten F		226
Rys L		871
Sagastume D J A		1024
Salas, C. A. <u>See</u> Alori Salas, C.		
Salas D		1495
Salas, J. G. <u>See</u> García Salas, J.		
Salaverry, J. S. <u>See</u> Savón		
Salaverry, J.		
Saldaña, C. T. <u>See</u> Treviño		
Saldaña, C.		
Salix	287	377
		388
		799
Salix humboldtiana		245
Salmoni R		668
Salomon O V		1827
Salvage operations		
Costa Rica		989
Samaya P R		1024
Sampaio A J de		669
		871a-
		874
Sampaio A N		670
Samper A		1260
Sanchez, A. M. <u>See</u> Morales y		
Sanchez, A.		

	Item		Item
Sanchez E P	1718	Schenk H	1721
Sanchez R	1719	Schinopsis	202
Sanchez del Aguila M	1828	253	434
Sanchez Roge H	1876	303	864
Sanchez S J J	999	307	489
Sancho A D	494	322	644
Sanders E M	1720	489	864
Santa Catarina (Brazil) Serv Florestal	552	See also Quebracho.	
Santa Cruz A	1163	Schinopsis balansae	376
Santa Cruz Porillo Experiment Station		Schinopsis lorentzii	417
El Salvador	1089	Schinus molle	1688
Santa Fé (Prov) Dirección General de Investigaciones Estadística y Censos	359	Schizolobium	215
Santa Fé (Prov) Ministerio de Salud Pública y Trabajo	336	Schmidt C B	877
Santa María. <u>See</u> Calophyllum.		Schmidt K P	1753
Santalaes	208	Schmieg K	878
Santi M G	526	Schmitt J J	101
Santibañez C	1607	Schnabel P	500
Santillana S C	1829	Scholten J A	229
Santos E	227	989	990
Santos J V dos	671	Schultz E F	502
Santos L B dos	875	Schulz A G	501
Santos Biloni J	495—498	Schurz W L	102
São Paulo Instituto de Botánica	1877	103	539
	876		1783
São Paulo (State) Serv. Florestal	632	Seasoning	1327
	673	Sedlak J C	104
Sapodilla. <u>See</u> Achras zapota.		Segura Jaimes J	1608
Saponin Chile	1168	Seibert R J	230
Sapotaceae	206	Seifriz W	1261
	237	Serfaty E M	879
	464	Serrano J	1457
	769	Serres, A. C. <u>See</u> Cassagne	
Sapotieiro. <u>See</u> Achras zapota.		Serres, A.	
Sauda E del	672	Serv. Técnico Interamericano de Cooperación Agrícola	1682
Saunders L F	1025	Sessea brasiliensis	834
Sauvegrain S	228	Settlement and colonization	
Savanna Brazil	636	Argentina	271
British Guiana	813	274	320
Colombia	1375	357	437
French Guiana	1194	Brazil	559
Venezuela	1388	560	597
	1887	616	615
	1915	British Guiana	29
	1929	41	1372
Saviñón, A. F. <u>See</u> Ferriz		British Honduras	29
Saviñón, A.		41	953
Savón Salaverry J	337	Chile	1126
Sawmills Argentina	278	1151	1152
Brazil	576	Colombia	1196
British Honduras	695	Ecuador	1210
Chile	968	Paraguay	1269
Ecuador	1131	Peru	1786
Honduras	1140	1820	1822
Nicaragua	1323	1822	1828
	1324	Séveren, M. L. van. <u>See</u> Lewy	
Sawtimber. <u>See</u> Resources; Timber.		van Séveren, M.	
		Sevilla Serdán C	1609
		Shade trees	165
		Shank P J	1042
		Sharp A J	1063
		Shattuck G C	1692
		1722	918
		Shelterwood system	974
		Shifting agriculture. <u>See</u> Agriculture, shifting.	
		Shinol J W	1324
		Ship decking	177

	<u>Item</u>		<u>Item</u>
Ship lumber		Soil erosion--Cont.	
Ecuador	1328	Uruguay	1873
Shipworms	815	Venezuela	1946
Shirley H L	105	Soils	
Shreve F	1723-1725	Amazon basin	606 637
Shuttle wood	814	Argentina	341
Sierra, B. J. <u>See</u> Jaramillo		Brazil	584 637 868 882
Sierra, B.		British Guiana	1372
Sierra H M	1026	British Honduras	928
Silkgrass Forest Reserve		conservation	8
British Honduras	949	Mexico	1633
Silva J A C da	675	Uruguay	1865
Silvani Gómez A	338	Solá W	503
Silveira F	231	Solano J O	1830
Silveira G G da	676	Soldán, J. P. P. <u>See</u> Pareja Paz	
Silviculture	36	Soldán, J.	
Argentina	37	Solís, M. A. <u>See</u> Acosta Solís,	
Brazil	1431	M.	
British Guiana	517	Solorzano, A. G. <u>See</u> García	
British Honduras	664	Solorzano, A.	
Chile	518	Soriano A	504
Surinam	693	Sosa A H	1611-1617 1726
Venezuela	823		1727-1748
Simão S	1356	Sousa E C de	683
Simpson E N	974	Sousa W W C de	684
Sinibaldi M M	1171	Sousa Filho A de	685
Sirotti L	1431	Southern Brazil Lumber and	
Sirretta	1901	Colonization Co	560
Ski woods	1936	Souza B J de	885
Skottsberg C	863	Souza P F de	687- 692 886
Skutch A F	233	Souza Novelo N	1749
Slash pine. <u>See</u> Pinus caribaea.	1184	Soza W H	1186
Sleepers. <u>See</u> Ties.	1000	Spalding A	340
Slifko C W	1936	Sparhawk W N	107 125
Smith A C	1418	Species. <u>See</u> Nomenclature;	
Smith, J. H. N. <u>See</u> Nelson Smith,	1338	Timber; Trees; and under	
J. H.	1418	generic names.	
Smith L B	1338	Sperling V	693
Smith T L	880	Spondias mombin	185
Smithsonian Institution Bur of	679	Spools	
American Ethnology		Argentina	372
Snellen E	48	Spoon W	235 1339 1445-1448
Sobral Pinto, G. <u>See</u> Pinto, G. S.	1444	Stahel G	1449-1452
Sobrinho V	680- 682	Standley P C	236- 238 887
	881	919	920 963 1001 1002
	882- 884	1028-1031	1041 1043 1044
Social aspects	57	1083	1099 1262 1666 1750
British Guiana	43		1751 1752 1937
British Honduras	43	Statistics	
Mexico	1491 1496 1561	Brazil	562 663
Sodiro Padre L	1571	Chile	1140 1150
Softwoods	1325	Mexico	1458 1463 1563
	134		1565 1571 1623
<u>See also</u> Coniferous trees;		Jalisco	1495
Coniferous woods; Light-		Papaloapan	1460
weight woods.		Paraguay	1771
Soil erosion		Stearns J L	239 240
Chile	1170		
Colombia	1249		

	<u>Item</u>		<u>Item</u>
Steel industry			Swietenia--Cont.
Brazil	594	Central America	908 911
Stellfeld C	888	Colombia	1218 1229
Stevens A W	889	distribution	211 908 1810
Stevens C P	1085	ecology	956
Stevenson D	953 964- 966	Ecuador	1309
Stevenson N S	931 965- 975	Guatemala	1010 1012 1025
Steyermark J A	1028 1031	Honduras	1048
	1032 1938	logging	66 162
Stines N C	1006	markets and marketing	179
Stocking		Mexico	908 914
Argentina	429	Nicaragua	1061
British Guiana	1371 1383	nomenclature	188
Mexico	1509 1690 1691	Panama	1080
Stoeckeler J H	341	Peru	1810 1842
Stor e H	1419	stumpwood	162
Strader O R	146	Venezuela	1916 1924 1935
Strocker C L	946	Swietenia krukovii	798
Stumpage		Swietenia macrophylla	531
Mexico	1738		534
Styrła S	865	Sympmania	1410
Suarez A	342	Sympmania globulifera	154
Suarez D A	505		1398
Suarez, E. V. <u>See</u> Villegas		Szyszlo V de	1831
Suarez, E.		Tabebuia	198 782 1262
Substitute woods	214 714		1335 1661
	792 825	Tabebuia donnell-smithii. <u>See</u>	
See also Teak substitutes and wood-use headings, e. g. Air-craft woods.		Cybistax donnell-smithii.	
Surinam Agricultural Experiment Station	1453	Tabebuia ipe	387 501
Surveys	36 69	Tabebuia palmeri	1657
Amazon basin	20	Tabebuia pentaphylla	1650
Argentina	283 298	Taccari I A	343 346
Bolivia	532	Tafu, O. B. G. <u>See</u> González	
Brazil	663	Tafu, O. B.	
British Guiana	1383	Tagua. <u>See</u> Phytelephas.	
British Honduras	928 937	Tamayo F	1939
	969	Tanbark. <u>See</u> Tannin.	
Chile	1135	Tannin	50 93 138 147
Mexico	1491 1511 1543	157 235 253 322 570	
Nicaragua	1063		1593 1666
Orinoco basin	20	Argentina	172 189 266
Peru	1789		328 382 467
Surinam	1432	Brazil	189 565 617 677
Uruguay	1873	711 729 789 810	
Venezuela	1908	Amazon basin	879
Svenson H K	1326	Bahia	709
Swabey C	976 1380 1381	Mato grosso	644
Swietenia	179 180 182 201	Pará	626
	221 945	Pernambuco	895
Amazon basin	213 561	Rio Grande do Sul	758
Brazil	561 798	British Guiana	1362
Amazonas	763	Central America	1717
Pará	832	Chile	1162 1168 1190
British Honduras	914 926	Colombia	1256 1264
941 944 949	951 956	Ecuador	1333
	968 974 976	French Guiana	1405 1411
		Guianas	1339

	<u>Item</u>				<u>Item</u>
Tannin--Cont.			Ties--Cont.		
Honduras	1038	1046	grades and grading		1098
Mexico	1498	1717	Mexico	1476	1505
Paraguay	172	1761	1546	1609	1625
Venezuela	1895	1918	El Salvador		1098
		1951	Surinam		1445
		1953	tests and testing	131	812
See also Mangrove; Quebracho; and scientific names of tannin sources.			Timber	14	83
Tansley A G		139	93	98	84
Tariff. See Laws and regulations; Trade.			140	145	122
Tatane. See <i>Pithecolobium tor-tum.</i>			178	181	170
Taungya system		974	234	243	226
Taxation			Amazon basin	625	255
Argentina	262	284	650	666	637
Mexico	1464	1465	697	759	767
	1496	1559	776	815	827
	1586	1607			
Taxodium mucronatum		214	Andes-Patagonia		515
		1678	Argentina	275	294
Taylor W P		1753	307	348	304
Teak substitutes		177	359	382	357
Technical mission to Brazil. See U. S. Technical Mission to Brazil.		721	395	400	409
Teck de Guyane. See <i>Dicorynia paraensis.</i>			413	414	422
Tecoma		782	423	437	
Tecoma ipe. See <i>Tabebuia ipe.</i>			449	455	483
Tecomate. See <i>Crescentia alata.</i>			469	474	
Tecomate ayele. See <i>Crescentia alata.</i>			508	513	514
Tectona grandis		1079	Almirón Island		321
Teesdale L V	1136	1327-1330	Chaco		484
Teixeira da Fonseca E T		241	Entre Ríos		374
		694	Iguazú		298
Tello, A. H. See Hellmund Tello, A.		890	Misiones	281	430
Tenny F A		1003	San Javier Valley		442
Tepp M		506	Santa Fé		487
Tercero J		1033	Santiago del Estero		264
Teredo		815			365
Terrazas L		540	Sub-Antarctic		367
Tesdorff H	344	1878-1880	Tierra del Fuego		406
Tharandt. Reichsinstitut für Ausländische und Koloniale Forstwirtschaft			Tucumán	448	492
Thorn forest		242	Bolivia	521	527
Ties	131	135	526	532	533
		137			539
		142	Chaparé		535
		196	Rio Beni basin		543
Argentina		1254	Brazil	193	549
Brazil	554	555	565	566	557
	626	655	619	623	594
		677	675	687	663
British Guiana		692	695	737	692
British Honduras	932	950	782	788	779
Central American woods		146	811	828	790
			839	848	792
			859	865	793
			867	890	1390
			Amapá		727
			Amazon basin		637
			650	697	776
			759	767	
					815
					827
			Amazonas	631	717
					763
					903
			Espírito Santo		838
			Mato Grosso		644
			Minas Gerais		743
			Northeast		804
			Pará	626	662
			660	662	726
			862	869	903

	<u>Item</u>		<u>Item</u>
Timber--Cont.		Timber--Cont.	
Brazil--Cont.		Mexico--Cont.	
Paraná	636	639	Central 1706
Pernambuco		881	Chiapas 1583
Santa Catarina		732	Chihuahua 1576 1737 1739
Serra do Mar		808	Colima 1727 1736
British Empire		163	Durango 1627 1690
British Guiana	108	1337	La Gavia 1612
1345 1346 1348	1349	1353	Guerrero 1689 1730 1759
1354 1355 1357	1361	1364	Hidalgo 1731
	1371	1374	Jalisco 1706 1741
British Honduras	22	108	Méjico (State) 1733
924 925 930	939	941	Michoacán 1500
946 960 963	965	975	Morelos 1728 1759
Caribbean region		1072	Oaxaca 1697
Central America	905	910	Puebla 1691 1748
	912	915	Quintana Roo 1644
Chile	193	1101 1105	Southeast 1705 1707
	1110	1113 1118-1120	Tabasco 1634
	1125	1128 1131	Tlaxcala 1613 1616 1617
	1139	1141 1142	1729 1734 1735
	1154	1160 1164	Valle de Bravo 1732
		1180	Veracruz 1608 1703
classification		1183	West 1493 1582
Colombia	1215	1217 1224	Nicaragua 1051 1052 1055
1227 1228	1231	1245 1246	1056 1059 1060 1065
		1256	Panama 1066 1068 1072
Amazonas		1257	1077 1083 1084
Lands of Loba		1198	Paraguay 275 635 1761
Río Magdalena basin		1214	1762 1763 1771 1775 1777
Santa Marta valley		1243	1780 1781 1783
Costa Rica	984	992 993	Peru 1787 1795 1797 1804
		1003	1809 1811 1814 1817 1821
durability		815	1824 1830 1833
Ecuador	1270	1274 1276	Amazon basin 1793
1283 1284	1287	1299 1301	Amazonas 1794
1317 1320	1324	1328 1329	Loreto 1822 1839
		1333	Northeast 1839 1844
Esmeraldas	1277	1279 1294	Oriente 1796 1803
Imbabura		1292	Tingo Maria 1831
Oriente		1803	Tumbes 1789
El Oro		1305	El Salvador 1086 1087 1093
Santo Domingo		1294	Surinam 1337 1436 1441
French Guiana	1384	1386	1446 1451 1453
1387-1390	1392	1395 1396	tests and testing 148 166
1401-1403	1406	1407 1409	229 247 860 903
1410 1412	1415	1416 1419	Argentina 450- 452
Guatemala	1006	1007 1011	Australia 721
1015 1016	1018	1023 1024	Gt Brit 925 930
		1028	Poland 865
Honduras	1034	1036 1037	Uruguay 1846 1871-1873
	1039	1046 1047	1876
Mexico	1499	1535 1546	Venezuela 1886 1890 1894
1549 1551	1556	1559 1561	1895 1900 1907 1908 1918
1568 1573	1582	1595 1609	1919 1921 1922 1927 1930
1629 1647	1652	1669 1685	1942 1947 1949 1956 1957
		1711	Amazon basin 1914
Aguascalientes		1719 1738	Bolivar 1944

	<u>Item</u>		<u>Item</u>
Timber--Cont.		Transportation--Cont.	
Venezuela--Cont.		French Guiana	1385
East	1938	Guatemala	1006
Guiana	1953	Mexico	1473 1543
Llanos	1955		1573
Trujillo	1897	Peru	1582
Zamora	1892	Venezuela	1844
	1896	Trees	1936
<u>See also</u> Coniferous trees;		86	151
Hardwoods; Resources.		216	1431
Timber cruising		Amazon basin	625
Argentina	378	697	776
Timber Development Association Ltd	234 243 244	745	103
	256	761	625
	1919	765	861
Timber leases		Andes-Patagonia	173
Mexico	1514	233	174
Timber sales		Argentina	485
Guatemala	1012	351	506
Tinto J C	345	379	361
Tobal M A	508	389	368
Tobón Villegas A	1263	398	403
Tomeo M	110	411	407
Torija, M. T. <u>See</u> Torres Torija, M.		420	449
Torres A de A	696	422	472
Torres J M	509	Andes region	433
Torres Torija M	1618	Buenos Aires (Prov)	435
Torricelli Díaz E	1125	470	383
Torroba, J. de F. <u>See</u> Foxá		Chaco	495
Torroba, J. de.		Chascomus	435
Tortorelli L A	111 346- 355	Las Conchas	509
	510- 518	Córdoba	509
Trade	9 25 80 83	Correntino	503
	101 112 114	Iquazú	458
Argentina	286 294 305	Magellan region	445
	332 1231	Misiones	415
Bolivia	526	Neuquén	416
Brazil	554 562 564	Pampas	435
	598	Patagonia	396
	623 662 695	Puerto Blest	436
British Honduras	859	Resistencia	458
Chile	941	Salta	460
Colombia	1101 1122 1177	San Juan mountains	465
Ecuador	1207 1231 1239	San Luis	390
French Guiana	1284 1324	Sub-Antarctic	520
	1385 1412	Tierra del Fuego	367
	1414	262	263
Guatemala	1006	Tucumán	435
Honduras	1036	Bolivia	537
Mexico	1485 1486 1499	Brazil	540
	1517	739	800
	1573 1574	824	816
Pacific	1629	Amazon basin	858
Paraguay	26	745	902
Surinam	1770	761	625
Transportation	1446	765	697
Argentina	112	Bahia	861
Brazil	332	Espírito Santo	876
	554 564 576	Ibiti	838
	650	Minas Gerais	804
	797	Northeast	836
British Honduras	927	Pará	882
Colombia	1193	626	862
		662	723
		766	639
		Paraíba	884
		Paraná	856
		Pernambuco	856
		São Paulo	821
		Serra da Cantareira	821

			Item		Item
Trees--Cont.				Trees--Cont.	
Brazil--Cont.				See also botanical names of trees, e. g. Ochroma lagopus; and Coniferous trees; Hardwoods; Timber; Vegetation.	
Teresopolis		756			
British Guiana	1361	1371		Treviño Saldana C	1619 1691
	1373	1383		Tropical Plant Research Foundation	39
British Honduras	906	923		Tucumán University, Facultad de Filosofía y Letras	394
		963		Tucumán University, Instituto de Estudios Geográficos	446
Central America		920		Turner M R	697 1947
Chile	1105	1107a	1120	Turpentine. See Naval stores.	
1149	1153-1155		1163	Tuxtla National Park, Mexico	1516 1611
Colombia	1200	1208	1216		
1226	1228	1239	1246		
Amazon basin			1253		
Atlántico		1220	1219		
Calima basin			1225		
Caquetá region			1212		
Lands of Loba			1244		
Orinoco basin			1214		
Santa Marta Valley			1219		
Sierra Nevada de Santa Marta			1259		
Costa Rica	977	980	1230		
			983		
			990		
Ecuador	1270	1272	1284	Ulmo. See Eucryphia cordifolia.	
1286	1295	1301	1308	Union de Madereros de Chihuahua	1586 1620
				United Fruit Co	916
French Guiana		1390	1410	United Nations Conference on Conservation and Utilization of Natural Resources	1253
growth rate			816	United Nations Conference on Food and Agriculture, Hot Springs, Ark. 1943	1621
Guatemala	906	907	1005	U S Board of Economic Warfare	30 699 1304
1015	1019-1022		1028	U S Bur. of Foreign and Domestic Commerce	56 112
Honduras	907	1039	1041		1045 1481
Mexico	918	1543	1652	U S Bur. of Ships	148 166
1680	1685	1711	1722	U S Dept. of State	57 112
East			1752	Div. of Library and Reference Serv	23
Guanajuato			1692	U S Foreign Economic Admin	63
Michoacán			1754	Fibers and Hides Div.	1622
Oaxaca			1500	U S Forest Serv.	63 1330
Quintana Roo		918	1667	Mission to Chile	1117 1127
Tehuantepec			1758		1129 1136
Yucatán	1666	1676	1749	Mission to Costa Rica	989
			1750		990
Nicaragua			1830	Mission to Ecuador	1294
Panama	1066	1073	1055		1328
Peru	1807	1808	1062	U S Institute of Inter-American Affairs	1085
			1077	U S Library of Congress Hispanic Foundation	47
poisonous			1078	U S Off. of Foreign Agricultural Relations	147 165 541
El Salvador	1085	1089	1090		1003a 1064 1075 1084 1331
1092		1093	1096		1784
Surinam		1425	1428		
			1431		
Uruguay	1853	1855	1861		
1865	1873	1876	1883		
Venezuela	1893	1900	1923		
1925	1928	1930	1936		
		1939	1942		
Guiana			1956		
Mérida			1952		
Orinoco basin			1953		
			1913		
			1954		

INDEX

	<u>Item</u>		<u>Item</u>
U S Off of Inter-American Affairs	63 981 1052 1072 1090 1200 1293 1763	Af-	Utilization--Cont.
U S Off. of Naval Research	148 166 247		Mexico 1459 1509 1519 1523 1537 1540
U S Off. of the Coordinator of Inter-American Affairs	113 990 1330 1481		Baja California 1700 Quintana Roo 1644 Sonora 1757 Southeast 1707
U S Soil Conservation Serv			Nicaragua 1060 Panama 1073 Panama Canal 1071
Mission to Venezuela	1940		Paraguay 1763 1766 1771 1777 1780
U S Tariff Commission	114 356 698 1187 1264 1623 1941		El Salvador 1096 Surinam 1437 1441 1451
U S Technical Mission to Brazil	699		Uruguay 1854 Venezuela 1900 1911 1923 1927 1930 1942 1956
University of Chile			Vaiani P R 357
Santiago	1126		Valdes, E. P. <u>See</u> Pisano
Uphof J C T	245		Valdes, E.
Upson A	115		Valenzuela H 1188
Uranga Loya A	1624-1626		Valero A B 1892
Urbaneja L A	1942		Vallejo F J 358
Uriarte Garcia P	1627		Valuation
Uribe Ramírez G	1265 1266		Argentina 258 363 British Guiana 1383 Chile 1101 Costa Rica 998 Peru 1789 1791
Uruguay Ministerio de Ganadería y Agricultura	1881		Valverde O 891 Vander Laan J W 116
Junta Honoraria Forestal	1882		Vanillosmopsis erythropappa 720
Utilization	39 68 69 83 86 88 95 96 97 99 100 121 178 216 256 1557		Vantanea barbourii 214 Vargas C C 1832 1833
Amazon basin	103		Vargas F 1754 Vargas G 645
Argentina	386 400 409 413 449 455 1231		Vasconcellos P W C de 701 Vásquez R 1628
Chaco	274 468		Vaughan R B 892
Resistencia	460		Vecchi O 806
San Javier valley	442		Vechsler M J 1189
Brazil	565 585 677 793 811 814 825 858		Vega R A 1046
Amazon basin	625 767		Vegetation 60 62 117 130 150
Ford plantations	667		Amazon basin 49 735 and climate 844 845
Pará	869		Andes 225 Andes 171
Santa Catarina	732		Andes east slope 528
South	700 855		Andes-Patagonia 479 1184
Teresopolis	756		Argentina 389 391 394 420 423 435 439 447 457 473 474
British Guiana	1346 1349 1360 1361 1371		Andes-Antarctic 478 Andes east slope 440
British Honduras	938		Andes-Patagonia 479
Chile	1125 1136 1158		
Colombia	1214 1227 1256 1259		
Costa Rica	990 993		
Ecuador	1277 1284 1287 1330 1683		
French Guiana	1386 1389 1396 1401 1402 1419		
Guatemala	1019 1020 1028 1030		
Honduras	1042		

	<u>Item</u>		<u>Item</u>
Vegetation--Cont.		Vegetation--Cont.	
Argentina--Cont.		Colombia--Cont.	
Catamarca	477	Atlántico	1222
Chaco	462	Calima	1212
Chubut	504	Río Magdalena basin	1223
Córdoba	505		1243
Corrientes	476	Sierra Nevada de Santa	
Iguazú	298	Marta	1230 1261
Jujuy	384	Costa Rica	985 996 1001
Pampas	466	Ecuador	1271 1295 1315 1321 1325 1326
Paraná basin	327	Andes	1288
Patagonia	436	Esmeraldas	1279
Reconquista	475	Imbabura	1292
Resistencia	463	Tulcán basin	1319
Salta	384	French Guiana	1385 1388
San Luis	375	Gran Chaco	435 443
Santa Fé	462	Guatemala	906 1013 1014 1017 1022 1023 1028 1031
Santiago del Estero	461		1032
Tucumán	446	Guianas	1334 1338
bibliographies	133	Honduras	1043 1044 1049
Bolivia 522 524	528	Mexico	1491 1632 1633 1645 1651 1673 1694 1701 1702 1703 1720 1751
Chaco	523	arid regions	1687
Santa Cruz region	537	Baja California	1700 1725
Brazil 160 744	813	Chiapas	1694
851 873- 875	880	Chihuahua	1641 1674 1724
Amazon basin	735	Coahuila	1699 1753
Amazonas 763	835	Distrito Federal	1710
Bahia 582	843	East	1692
Curicuriarí basin	764	Laredo-Mexico City High-	
Ibiti	876	way	1645 1704
Goiás	897	Michoacán	1672
Mato Grosso	898	Morelos	1708
Minas Gerais	722	Northwest	1642
Northeast 591	681	Nuevo Leon	1698
836	716	Papaloapan	1693
Pará	850	Puebla	1694
Paraíba basin	626	Río de las Balsas basin	1695
Paraná 730	818	Sierra de Mixteca	1721
Paraná river basin	888	Sinaloa	1654 1656 1723
Pernambuco 802	852	Sonora	1655 1757
Planalto Central	820	Tlaxcala	1617
Rio Grande do Sul	901	Yucatán	1668 1676 1749
São Paulo	866		1750
South 753 805	856	Nicaragua	1057 1060
British Guiana	820	Panama	1074 1076 1083
1367	870	Paraguay	870 1764 1765 1768 1769 1779
British Honduras	1358	Peru	1825 1835 1843
942 943 953	1366	Andes	1832 1834 1834a
Chile 1121 1124	923		1837
1147 1156-1158	1132	Cuzco	1807
Andes-Antarctic	1143		
Andes-Patagonia	1184		
Norte Chico	478		
Ñuble	479		
classification	1161		
Colombia 1194	1181		
1211	1224		
1228	1232		
	1242		

<u>Item</u>	<u>Item</u>
Vegetation--Cont.	
Peru--Cont.	
Oriente	1796
El Salvador	1094 1095 1099
Surinam	1427 1436 1438 1443
Uruguay	1848 1856 1857 1860 1866 1873-1875 1877 1880
Venezuela	1887 1930-1934 1937 1940
Bolivar	1944
Guiana	1915 1953
Isla de Margarita	1948
Llanos	1897 1905
Maracaibo	1929
Mérida	1899 1913
Orinoco basin	1903 1910
Paria peninsula	1888
Zamora	1896
See also Forest types; Timber; Trees.	
Vegetation der Erde	528
Veiga A de A	893 894
Veillon J P	1943-1945 1947
Velho R	895
Vellard J	542
Velloso Colombres P A	360
Veloso H P	896- 899
Veneer	240
Brazil	583 741 803
British Guiana	1350
Central America	910
Chile	1185
grades and grading	741
industry	910
Mexico	1629
Surinam	1448
See also Plywood.	
Venezuela. Dept. de Divulgación	
Agropecuaria	1945
Venezuela. Dirección Forestal y de Conservación de Suelos	1946
Venezuela. Ministerio de Agri- cultura	1947
Dirección Forestal	118
Venezuela. Sec. de Divulgación	
Agropecuaria	1947 1948
Verbenaceae	207
Verdoorn F	117
Vergara C C	1190
Vianna A	825
Vicq V de	702
Vidal, A. R. P. See Pretel Vidal, A. R.	
Vidal J J	361 362 1191
Vidal L	1420
Videla, D. A. See Amadeo y	
Videla, D.	
Villa, J. G. See Galindo y	
Villa, J.	
Villa J J	1630
Villa J L	1755
Villaneuva, A. M. See Moreno	
Villaneuva, A.	
Villarejo, P. A. See Avencio	
Villarejo, P.	
Villaseñor R	1520
Villegas, A. T. See Tobón	
Villegas, A.	
Villegas Suárez E	1883 1884
Vime. See Salix.	
Virola	958
Vitex	207
Vochysia	152
Vogt E	519
Vogt W	89 118- 120 1004 1100 1581 1631 1632 1950
Volumes	
Mexico	1484 1647
Paraguay	1771
Venezuela	1944
Von Hagen V W	1047 1048
Wadsworth F H	115
Wagner H O	1633
Wahnschaffe A	703- 705
Waibel L	900 901
Walaba. See Eperua.	
Waldegg P E	1634
Walkey R A	1951
Wallaba. See Eperua.	
Walnut. See Juglans; Nut trees.	
Wangaard F F	148 166 247
Warren C A	1785
Waste utilization	
Mexico	1618
Water supply	
Mexico City	1474
Watersheds	
Colombia	1213 1249
Mexico	1474
Watt A S	139
Wattle. See Acacia decurrens mollis.	
Waxes. See Oils and waxes.	
Weaver J C	90
Weber A N	1502
Weberbauer A	1834-1837
Wegener K	902
Weinbaum O	903
Wells S D	248
Wernicke E	506
West India Royal Commission. See Gt. Brit., West India Royal Commission.	

	<u>Item</u>		<u>Item</u>
White B	1578	Woods R P	254 - 256
White O E	250	Woodworking	
White S S		Brazil	592
Whitford H N	121	Chile	1131 1190
Whitte M		Colombia	1215
Wiehe		Peru	1811
Wiggins I L	1332	Wright J K	90
Wight R A	706	Wylie K H	1267 1333
Wild life		Wythe G	123 124 706
Mexico	1632		
Wilhelmy H	363	Yale University School of	
Williams L	252	Forestry	148 166 216
1839-1844	1932		247 765
		Verba mate	639 692
Willow. <u>See</u> Salix.		Yuncker T G	1049 1050
Wilson C M	13	Yussem Favre R	520
Wilson O	253		
Wolowitch D	1421	Zanetta A	364
Wood B R	1367 1369	Zappert K	707
	1382	Zaragoza mangrove. <u>See</u> Cono-	
	1383	carpus erecta.	
Wood. <u>See</u> Coniferous woods;		Zehnder J W	708
Hardwoods; Timber; and use		Zelaya J M	1065
designations, e. g. Container		Zetek J	1076
woods; Precious woods.		Zinser J	1759 1760
Wood distillation. <u>See</u> Charcoal;		Zon R	125
Distillation products.		Zygophyllaceae	212
Wood gas			
Argentina	450		
Woodlands. <u>See</u> Farm woodlands;			
Timber.			

314

