List of Publications on
LOGGING, MANUFACTURE, AND UTILIZATION
OF TIMBER, LUMBER, AND OTHER
WOOD PRODUCTS
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UNITED STATES DEPARTMENT OF AGRICULTURE
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Madison, Wisconsin
In Cooperation with the University of Wisconsin
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This list includes publications that present the results of research by the Forest Products Laboratory on methods and practices in the lumber producing and wood-consuming industries; standard lumber grades, sizes, and nomenclature; production and use of small dimension stock; specifications for small wooden products; utilization of little-used species and commercial woods; and low-grade and wood-waste surveys. Included also are other Government and commercial publications on these subjects.

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INSTRUCTIONS FOR OBTAINING PUBLICATIONS

Publications available for distribution at this Laboratory are marked with an asterisk (*).

Single technical notes, reprints, and mimeographed reports may be obtained free upon request from the Director, Forest Products Laboratory, Madison 5, Wis. A bound volume of the technical notes only, containing the notes listed here and notes dealing with other subjects, in all more than 100 notes, may be purchased for $1.00. (This volume does not include the reprints and mimeographed reports mentioned in the list.) Remittance should accompany your order and be made by certified check or postal money order to the Treasurer of the United States.

Federal Government bulletins, circulars, leaflets, etc., if not available for free distribution at this Laboratory, may be purchased at the prices indicated from the Superintendent of Documents, Government Printing Office, Washington, D. C. Send money order, draft, or cash; stamps or personal checks are not accepted.

Trade journals containing articles herein listed may often be purchased from the publishers or may be consulted in various libraries.

The Forest Products Laboratory reserves the right to furnish only those publications which in its judgment will give the information requested. Blanket requests or requests for a large number of copies of any individual article will not be filled except in unusual cases.
GENERAL ECONOMIC REPORTS


Economic and social importance of a sustained supply of raw material for the wood-using industries in the Lake States, by R. D. Garver. (Paper presented at the Lake States Forestry Conference, Madison, Wis., Apr. 24-25, 1935.)


National plan for American forestry: report on Senate Resolution 175, by U. S. Forest Service. (Known as Copeland Report.) 2 v., 1933. $1.75.


Timber depletion, lumber prices, lumber exports, and concentration of timber ownership; report on Senate Resolution 311, by U. S. Forest Service. 1920. (Known as Capper Report.) Out of print. (May be consulted in U. S. depository libraries.)


LOGGING


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LOGGING (continued)


Flexible logging equipment aids utilization, by A. H. Hodgson. West Coast Lbrman., Sept. 1, 1926.

*Forest Products Laboratory study to help small mill situation, by C. J. Telford. South. Lbrman., July 15, 1930.

Instructions for appraising stumpage on national forests. U. S. Forest Service. (Misc.). Rev. 1922. 10¢.

Instructions for the scaling and measurement of national forest timber. U. S. Forest Service. Rev. 1935. 15¢.


Montana forest and timber handbook, by R. N. Cunningham, S. V. Fullaway, Jr., and C. N. Whitney. Feb. 1926. (State Univ. Montana Studies 1.)


Log scale vs. lumber tally: a discussion of overrun and the factors affecting it, by M. Bradner and Philip Neff. Timberman, July 1926.


Selective logging in the national forests, by C. B. Morse. Timberman, Nov. 1928.


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LOGGING (continued)


Tables for determining contents of standing timber in Minnesota, Michigan, and Wisconsin, comp. by Cloquet Forest Experiment Station and the Lake States Forest Experiment Station. Minnesota Agr. Experiment Station Tech. Bul. 39. 1926.


LOGGING (continued)

Will sustained yield in lumber operation come through regulation or through competition? by F. J. Hallauer. Jour. Forestry, Nov. 1930.

MANUFACTURE


Ripping and trimming shortleaf lumber to increase its value, by R. D. Garver. Lbr. Trade Jour., Apr. 15, 1929.

Sawmill efficiency not measured by volume of production: comparison of cutting up logs and sawing lumber in the Inland Empire, by M. Bradner. Timberman, June 1927.


New tube-cutting method for making bobbin blanks and similar products, by Joe Donny. Wood Products, Feb. 1944; Canadian Woodworker, Feb. 1944; Natl. Hardwood Mag., Apr. 1944; Barrel & Box & Packages, May 1944.


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MANUFACTURE (continued)

Small sawmill improvement, practical pointers to field agencies:
*Setting up a ground mill. FPL Mimeo. R899-11. 1935.
*Short-cut method of finding the minimum sized tree that pays its way through small sawmill operations. FPL Mimeo. R899-13. 1940.


MARKETING (FARM AND WOODLOT TIMBER)

Amount of solid wood per cord of sticks of different diameters, by Lake States Forest Experiment Station, St. Paul, Minn.


MARKETING (FARM AND WOODLOT TIMBER) (continued)


Logs from the woodlot may be sold profitably on a log-grade basis, by R. H. Miller. U. S. Dept. Yearbook, 1932.


GRADIES, SPECIFICATIONS, AND STANDARDIZATION


*The density of southern pine; its significance in terms of properties and grades, by E. M. Davis. South. Lbrman., Dec. 17, 1927.


*Grading hardwood logs by the cutting system, by A. O. Benson. South. Lbrman., Dec. 15, 1941.

Grade-marking of lumber for consumers' protection. Report of the National Comm. on Wood Utilization of the Dept. of Com. 1928. 5¢.


A new approach to hardwood log grades, by A. O. Benson. South. Lbrman., July 1, 1940.


Defects and Blemishes

GRADES, SPECIFICATIONS, AND STANDARDIZATION (continued)

Defects and Blemishes (continued)

*Cause and prevention of blue stain. Forest Products Laboratory Tech. Note 225. Revised 1941.


*Yellow stain on hardwood. Forest Products Laboratory Tech. Note 166. 1922.

UTILIZATION

General Reports


*Pictured good and poor practice in frame house construction details. FPL Tech. Note 242. 1940.

UTILIZATION (continued)

General Reports (continued)

*Properties and uses of some of the more important woods grown in Brazil, by E. E. Horn. Forest Products Laboratory Mimeo. R23. 1918.


*Short lengths of softwoods in the industries, by E. M. Davis. Timberman, Sept. 1925; Amer. Lbrman., Aug. 15, 1925.

Small sawmill utilization of Appalachian hardwoods:


*Suitability of woods for use in barns and other farm structures. Tech. Note 246. 1940.


What forests give, by M. B. Brûre, U. S. Forest Service unnumbered publication. 1938. 15¢.


UTILIZATION (continued)

General Reports (continued)


*Partial list of uses of forest products in substitutions for steel and tin. FPL Mimeo. R1289, Feb. 1942.

By Species

U. S. Forest Service foreign woods' series:

*Balsa  *Greenheart  *Iroko  *Khaya  *Lauans  *Lignumvitae
*Mahogany  *Okoume  *Teak

U. S. Forest Service American woods' series:

*Alder, red  *Larch, Western
*Ash  *Locust, black
*Aspen  *Magnolia
*Baldcypress  *Maple
*Basswood  *Oak
*Beech, American  *Pecan
*Birch  *Persimmon
*Buckeye  *Pine, Eastern white
*Butternut  *" , jack
*Cedar, Alaska yellow  *" , lodgepole
* " , Atlantic white  *" , ponderosa
* " , California-incense  *" , red
* " , Eastern red  *" , Southern
* " , Northern white  *" , sugar
* " , Port Orford white  *" , Western white
* " , Western red  *Poplar, balsam
*Cherry, black  *" , yellow
*Chestnut  *Redwood
*Cottonwood  *Spruce, Eastern
*Dogwood, flowering  *" , Engelmann
*Elm  *" , Sitka
*Fir, Balsam  *Sweetgum
* " , Douglas  *Sycamore, American
* " , noble  *Tamarack
* " , white  *Tupelo
*Hackberry  *Walnut, black
*Hemlock, Eastern  *Willow, black
* " , Western
*Hickory
*Holly, American

R790 -12- (p. 12a follows)


A forest that "just grewed": aspen, a weed species in the Lake States, demonstrates survival values and begins contributing to our forest wealth, by T. J. Mosley. Amer. Forests, Oct. 1931.
UTILIZATION (continued)

By Species (continued)


*Blight-infected chestnut as durable as sound chestnut. Forest Products Laboratory Tech. Note 174.


*Utilization guide for blight-killed chestnut. Forest Products Laboratory Tech. Note 224.


UTILIZATION (continued)

By Species (continued)


*Black gum is no longer a "black sheep": now a valuable wood, by G. C. Morbeck. Memphis Lbrman., Apr.-June 1929.


UTILIZATION (continued)

By Species (continued)


*Southern yellow pine. Forest Products Laboratory Tech. Note 214.


*The white pines. Forest Products Laboratory Tech. Note 215.


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UTILIZATION (continued)

By Species (continued)


By Industries

Aircraft


UTILIZATION (continued)

By Industries (continued)

Buildings

*Dimension panels in a modular system of small house construction. FPL
Mimeo. R1251. 1941.

Evolution of home construction, by R. F. A. Johnson. Residential
Appraisers Review, Apr. 1941.


Selection of lumber for farm and home building, by C. V. Sweet and R. F. A.

Use and abuse of wood in house construction, by R. F. A. Johnson and E. M.


Wood handbook: basic information on wood as a material of construction with
data for its use in design and specifications, by Forest Products Labora-
tory. U. S. Dept. Agr. unnumbered publication. 1935 (slightly revised
dition 1940). 35¢.

*Selection, installation, finish, and maintenance of wood floors for dwell-

*Presenting semiprefabrication, by C. V. Sweet. Amer. Lumberman, March 18,
1944.
CONTAINERS

*Brief description of the manufacture of beer and whiskey barrels. FPL Mimeo. R1030. 1934.

Description of the tests made of southern hardwoods for butter boxes and tubs. Barrel & Box & Packages, Oct. 1934.


Species of wood suitable for use in contact with foodstuffs, by R. F. A. Johnson. Cold Storage Locker Operator's Conference Proc. 1939. (Copies of Proceedings available from Prof. Marvin A. Schaars, Rm. 204, Agr. Hall, University of Wisconsin, Madison, Wis., for 75c.)


UTILIZATION (continued)

By Industries (continued)

Cross Arms

Strength tests of cross-arms, by T. R. C. Wilson. U. S. Forest Service Circ. 204, 1912. Out of print. (May be consulted in U. S. depository libraries.)

Furniture

Chair manufacture in Oregon and Washington, by W. H. Gibbons and H. M. Johnson. West Coast Lbrman., May 1, 1925.

Economic development of the furniture industry of the South and its future dependence upon forestry, by C. F. Korstian. N. C. Div. of Forestry, Econ. Paper 57. 1926.


Planing Mill Products


Poles and Posts

Pole timber of the Northwest: detailed data covering an important branch of the Pacific Northwest lumber industry, by W. H. Gibbons. West Coast Lbrman., May 1, 1926.

Ties and Timbers


UTILIZATION (continued)

By Industries (continued)

Ties and Timbers (continued)


Veneer and Plywood


Plywood in relation to the veneer package industry, by C. V. Sweet. Wood Products, Dec. 1939.

*Properties of ordinary wood compared with plywood. Forest Products Laboratory Tech. Note 131.

Miscellaneous


*How to make a laminated diving board. Forest Products Lab. Tech. Note 244, 1940.


Utilization (continued)

By Industries (continued)

Miscellaneous (continued)

Straightening used barrel staves, by R. P. A. Johnson. Wooden Barrel, Mar. 1940; Natl. Cooper's Jour., Apr. 1940; Barrel & Box & Packages, May 1940.


Waste


*Wood plastics as developed at the Forest Products Laboratory and their future importance, by E. C. Sherrard, Edw. Beglinger, and J. P. Hohf. FPL Mimeo. R1203. 1941.

*Limitations to the use of sawdust. FPL Tech. Note 167. 1922.


UTILITY (continued)

Small Dimension Stock


*Cutting the full woods run to dimension, by A. O. Benson. Wood Working Indus., June 1925.


*Dimension stock: careful piling for air seasoning minimizes loss, by A. O. Benson. Amer. Lbrman., July 4, 1931; South. Lbrman., Nov. 15, 1930.


MISCELLANEOUS


*Chinking materials for log cabins. FPL Mimeo. 1938.


*Forest products and defense, by C. P. Winslow. FPL Mimeo. R1250. 1941.


*A hundred definitions pertaining to wood and other forest products. FPL Tech. Note 240. 1932.


MISCELLANEOUS (continued)


*Recent tests in planing southern and other hardwoods, by E. M. Davis. South. Lbrman., Dec. 15, 1937.


*Sidelights on southern hardwoods, by E. M. Davis. South. Lbrman., Dec. 15, 1934.

*Some books on wood (a list). Forest Products Laboratory Mimeo. R399. Revised 1943.


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MISCELLANEOUS (continued)


*Subject index of Forest Products Laboratory technical notes.


*MISCELLANEOUS (continued)*


*War-time model hopper unit for burning various forms of wood in standard domestic furnaces, by C. V. Sweet, R. H. P. Miller, and Joe Donny. FPL Mimeo. R1440, Dec. 1943.*


*Wood fuel and wood stoves. FPL Mimeo. R1279, June 1942.*


**STATISTICS OF PRODUCTION AND CONSUMPTION**

(Issued by the Bureau of the Census, U. S. Dept. of Commerce, Washington, D. C.)

Statistical abstract of the United States, 1940. $1.50.

Manufactures 1939: lumber and timber basic products group. (16th census of the United States, 1940) 10¢.

Forest products 1938: lumber, lath and shingles. (Processed)

Biennial census of manufactures, 1937. Reprint of part 1, 35¢; part 2, 50¢.

**OTHER LISTS OF PUBLICATIONS**


Same.—Supplement, 1926-30, 1935. $1.50.

Same—1931-37, 1939. $1.25.
OTHER PUBLICATION LISTS ISSUED BY THE
FOREST PRODUCTS LABORATORY

The following lists of publications which deal with the other investigative projects of the Forest Products Laboratory are obtainable upon request:

Boxing and Crating -- Strength and serviceability of shipping containers, methods of packing.

Building Construction Subjects -- Partial list of Government publications of interest to architects, builders, retail lumbermen, and engineers.

Chemistry of Wood and Derived Products -- Chemical properties and uses of wood and chemical wood products, such as turpentine, alcohol, and acetic acid.

Glue and Plywood -- Development of waterproof glues, preparation and application of various glues, plywood-manufacturing problems.

Growth, Structure, and Identification of Wood -- Structure and identification of wood; the effect of cellular structure of wood on its strength, shrinkage, permeability, and other properties; the influence of environmental factors, such as light, soil, moisture, and fire, on the quality of wood produced; and secretions of economic value produced by trees and their exploitation.

Fungus Defects in Forest Products (Pathology in cooperation with the Bureau of Plant Industry, Soils, and Agricultural Engineering) -- Heart rots of trees; decay, molds, and stains in timber, in buildings, and in wood products; antiseptic properties of wood preservatives.

Mechanical Properties of Timber -- Strength of timber and factors affecting strength; design of wooden articles or parts where strength or resistance to external forces is of importance.
Pulp and Paper -- Suitability of various woods for pulp and paper; fundamental principles underlying the pulping and bleaching processes; methods of technical control of these processes; relation of the chemical and physical properties of pulps and the relation of these properties to the paper-making qualities of the pulps; waste in the industry, for example, decay in wood and pulp, utilization of bark, white water losses, etc.

Seasoning of Wood -- Experimental and applied kiln drying, physical properties, air drying, steam bending.

Use of Wood in Aircraft Construction -- Strength, selection and character of aircraft wood and plywood; fabrication and assembly problems; methods of calculating the strength of wooden parts; structure of wood in relation to its properties and identification.

Wood Finishing Subjects -- Effect of coatings in preventing moisture absorption; painting characteristics of different woods, weathering of wood.

Wood Preservation -- Preservative materials and methods of application; durability and service records of treated and untreated wood in various forms.