

SOME REFERENCES ON BALSA AND OTHER LIGHT-WEIGHT WOODS

FOREST PRODUCTS LABORATORY
MADISON WISCONSIN

OCTOBER 1937

American balsa co., inc. Balsa wood: reprint with some added data from the Bulletin of American international corporation, vol.2, no.1, February 1919. N.Y., Amer. balsa co.n.d. 16 p.illus.

American institute of architects Balsa wood[for insulation] Jour. Amer.inst.architects 9(9):311-312, Sept. 1921.

American lumberman Romance of balsa wood. Amer.lumberman no.2347: 74-75, May 8, 1920.

American review of reviews Virtues of balsa wood. Amer.rev.of rev. 60:101, July 1919.

Anderson, James Ecuador contributes a wood that is lighter than cork. Illus. Sci.Amer.122(11):281, 292, Mar. 13, 1920.

Aviation Balsa wood propeller for large planes. Aviation 22(6): 271, Feb. 7, 1927.

Aviation and aeronautical engineering Balsa wood. Aviation and aeronaut. engin.3(8):531, Nov. 15, 1917.

Balsa wood co., inc. Story of Lata balsa: its growth, characteristics, properties, applications. Brooklyn, Pub. by the co. 1933. 8 p. illus.

Brush, W. D. Balsa wood, Ochroma lagopus. n.d. 2 p. mimeographed.

Carpenter, R. C. Investigation of the properties of balsa wood. Illus. Sibley jour.engin.31(3):57-62, Dec. 1916. Abstracted in Jour. Franklin inst.184:580, Oct. 1917.

Carpenter, R. C. Properties of balsa wood. Illus. Aerial age wkly 9(13):640-641, June 9, 1919.

Carpenter, R. C. Properties of balsa wood, Ochroma lagopus; with discussion by A.P.Lundin & L.M.Cox. Illus. Amer.soc.civil engin. Trans.81:125-160, 1917. Abstracted in Amer.soc.mech.engin.Jour.38: 590-591, July 1916.

Draffin, J. O. Mechanical properties of balsa wood, by J.O.Draffin & C.E.Muhlenbruch. Illus. Amer.soc.testing materials Proc.37: preprint, 6 p. 1937.

Ecuador - Dept of agriculture Importancia comercial del palo de balsa, Ochroma spp. Guayaquil, Ecuador, 1928. 6 p. illus. Ecuador dept agr. Subdirección técnica agropecuaria del litoral Bul. 10. Abstracted in Yale univ. School of forestry Tropical woods (17):42, Mar. 1, 1929.

Engineer Balsa wood. Engineer 154(4000):263, Sept. 9, 1932.

Figg, E. H. Lightest wood and its uses. Illus. Packing and shipping 55(7):26-27, Oct. 1928.

Furniture index Useful wood for packing purposes: science and mechanics adapt the natural properties of rapidly growing balsa for use in furniture factories. Illus. Furniture index 49(1):189-190, May 1925.

Garman, H. G. Use of balsa wood in the reproduction of tone frequencies. Yale univ. School of forestry Tropical woods (14):31-32, June 1, 1928.

Gill, Tom Tropical forests of the Caribbean; published by the Tropical plant research foundation in cooperation with the Charles Lathrop Pack forestry trust. Wash. D.C., A.McLachlen, 1931. 317 p. illus. Illus. of balsa trees, two years old, opposite p. 144.

Great Britain - Imperial institute Balsa wood from British Honduras. Gt. Brit. Imp. inst. Bul. 23(1):4-8, Apr. 1925.

Greenhouse, Samuel Culture of the balsa tree in Ecuador. Jour.forestry 33(10):870-876, Oct. 1935. Abstracted in Yale univ. School of forestry Tropical woods (44):40-41, Dec. 1, 1935.

Hampson, D. A. Balsa: our newest and lightest wood. Illus. Woodworker 47(5):52-53, July 1928.

Hankinson, R. L. Use of balsa wood in plywood. Wash. Govt print. off. 1924. 2 p. (U.S.air serv.Information cir.5(473); McCook field rept, ser.2359)

Hardwood record Balsa wood for aeroplanes. Hardwood rec.45(8):21, Aug. 18, 1918.

Herrmann Balsa-holz, Ochroma lagopus Sw. Deutsch.forstzeitung 38: 483-485, 1923. Abstracted in Bot.abs.13(1):18, Jan. 1924.

Hirsch, W. C. Balsa: the wood of little weight and much usefulness. Raw material 4(2):62-64, Feb. 1921. Reprinted by Amer.balsa co., N.Y. 1921. 4 p.

Hyde, K. C. Tropical light weight woods. Illus. Bot. gaz. 79(4): 380-411, June 1925.

Krefeld, W. J. Report of compression and tension tests on ceiba wood. N.Y., Testing laboratories, Columbia univ, 1918. 2 p. typed.

Literary digest Lightest wood in the world. Literary digest 69:23, Apr. 30, 1921.

Macbride, J. F. Identity of the Peruvian balsa. Yale univ. School of forestry Tropical woods (17):5-7, Mar. 1, 1929.

McMillen, S. E. Cultivation of balsa timber in Costa Rica. U.S.bur. foreign and dom.com.Daily consular and trade rept (117):669-671, May 18, 1918. Abstracted in Internatl.inst.agr.Internatl.rev.sci.and practice of agr.10(1):76-77, Jan. 1919.

Marine engineering Balsa insulation for refrigerator ships. Illus. Marine engin.26:557-560, July 1921.

Mell, C. D. Balsa plantations in Central America. Yale forest school news 12(4):64, Oct. 1924.

Mell, C. D. Balsa wood: its properties and uses. N.Y., J.H.Monteath co[1928] 4 p.

Mell, C. D. Balsa wood of commerce. Hardwood rec. 35(3):27, Nov. 25, 1912.

Missouri botanical garden bulletin Lightest wood known. Missouri bot. garden bul.3(8):107-109, Aug. 1915. Abstracted in Literary digest 51:899, Oct. 23, 1915; Rural New Yorker 75:839, June 3, 1916.

Mount, H. A. Balsa: the lightest commercial wood. Illus. Popular mech.mag.34:815-817, Dec. 1920.

Neuermann, E. (Das) balsa holz. (Der) tropenpflanzer 25:49-52, 1922. Abstracted in Internatl.inst.agr.Internatl.rev.sci.and practice of agr. n.s.1:155-157, Jan. 1923; Bot. abs. 14(10-11):1309-1310, Oct.-Nov. 1925.

Pearson, C. H. Balsa or corkwood of commerce. Cuba rev.14(8):9-12, July 1916.

Rafalski, Julian Balsa, Ochroma lagopus Sw.: i jej wasności mechaniczne. (With résumé in French) Reprinted from Roczniki nauk rolniczych i leśnych 33:120-136, 1934. Abstracted in Yale univ. School of forestry Tropical woods (41):45, Mar. 1, 1935.

Record, S. J. Notes on tropical timbers: Gumaan driftwood in the Philippines. Yale univ. School of forestry Tropical woods (32):2-4, Dec. 1, 1932.

Record, S. J. Timbers of tropical America, by S.J. Record & C.D. Mell.
New Haven, Yale univ. press, 1924. 610 p. illus.
Ochroma, p. 424-426.

Rimbach, August The forests of Ecuador. Yale univ. School of forestry
Tropical woods (31):1-9, Sept. 1, 1932.

Ritter, G. J. Chemistry of wood, part 5: The results of analysis of some
American woods, by G.J.Ritter & L.C.Fleck. Jour.indus.and engin.chem.
14(10):1050-1054, Nov. 1922.
---Same. Madison, Forest products lab. 1922. 12 p. (Mimeograph 849)
Balsa, table 7.

Rowlee, W. W. Synopsis of the genus Ochroma, with descriptions of new
species. Jour.Wash.acad.sci.9(6):157-167, Mar. 19, 1919.

Rowlee, W. W. Tropical trees with light-weight wood. Jour.N.Y.bot.
garden 22(256):75-78, Apr. 1921.

Sherwood, Mc He From forest to furniture: the romance of wood. N.Y.,
W.W.Norton & Co., 1936. 284 p. illus.
As light as a feather: balsa, p. 203-204.

Southern lumberman Balsa boxes carry perishables safely. Illus.
Southern lumberman 119(1542):44, Apr. 18, 1925.

Stang, A. H. Compressive tests on balsa wood. Amer.soc.mech.engin.
Trans.50(14):25-27, May-Aug. 1928.
---Same. Furniture manfr.34(5):104, 106, Nov. 1927.
---Same. Wood working indus.4(3):14-15, Mar. 1928.
---Same: abstracted in Yale univ. School of forestry Tropical woods
(14):12-15, June 1, 1928.

Stodola, G. I. Balsa is a good wood for furniture packing. Illus.
Furniture mnfr and artisan 23(1):29-31, Jan. 1922.

Tangerman, E. J. Whittling and woodcarving. N.Y. McGraw-Hill book co.,
1936. 293 p. illus.
Wooden birds whittled from balsa, p. 130.

Tenny, F. A. Costa Rican balsa. Unifruitco (Boston) 4(1):3-5.
Abstracted in Yale univ. School of forestry Tropical woods (15):
34-37, Sept. 1, 1928.

Thomas' register of American manufacturers 37th ed. 1937. N.Y.,
Thomas pub. co. 1937.
Lists firms from which balsa wood is obtainable.

Timberman Hunting balsa wood in Latin America; method of extraction and preparation for market. Illus. Timberman 32(3):23, 54, Jan. 1931.

U. S. - Dept of commerce - Bureau of foreign and domestic commerce - Forest products division American importers and dealers in foreign cabinet woods. Wash. Pub. by the bur. 1937. 18 p.

U. S. - Dept of commerce - Bureau of foreign and domestic commerce - Forest products division Balsa wood: its properties, uses and sources of supply. Wash. Pub. by the div. 1936. 5 p. (U.S.bur.for.and dom.com.forest prod.div.Misc. pub.6)

U. S. - Forest products laboratory Selected pulp samples. Oct. 20, 1923. Includes sample of paper from balsa wood using sulphate process.

Wood, S. A., jr. Balsa wood for packing. Illus. Packing and shipping 55(9):28-29, 35, Dec. 1928.