

PUBLICATIONS RECEIVED.

Philadelphia Public Works.—Annual Report (1913) of the Director, Department of Public Works, city of Philadelphia.

Timber and Soil Conditions of Southern Manitoba.—By L. G. Tilt, B.Sc.F., Forestry Branch, Department of the Interior, Canada. 36 pp.; illustrated.

Kewagama Lake Map-Area, Quebec.—By M. E. Wilson, Memoir 39, Geological Survey, Department of Canada. 140 pp.; numerous plates and illustrations.

Magnetic Occurrences near Calabogie, Renfrew County, Ontario.—By E. Lindeman, Mines Branch, Department of Mines, Ottawa, describing location, history, geology, ore deposits, etc.

Farmer as a Manufacturer.—By A. T. Stuart, B.A., assistant chemist, Department of Agriculture, Experimental Farms. An outline of some basic principles in agricultural chemistry. 16 pp.; 6 x 9 in.

Pollution of Des Plaines River.—Report of the sanitary district of Chicago. 55 pp.; 6 x 9 in.; illustrated. It outlines investigations of conditions along the river in new territory annexed by the city in 1913.

Moose Mountain Iron-Bearing District, Ontario.—By E. Lindeman, Mines Branch, Department of Mines. 32 pp., describing location, general historical and geological features, character of ore and commercial possibilities.

The Archæan Geology of Rainy Lake Restudied.—By A. G. Lawson, Geological Survey, Department of Mines. Published as Memoir 40. 115 pp.; 6 x 9 in.; plates and illustrations. A report upon investigations in Northwestern Ontario in 1911.

Cold Fields of Nova Scotia.—By W. Malcolm, Geological Survey Branch, Department of Mines. 330 pp.; 52 plates, 24 figures and 2 maps. It is a compilation of data, the result of field investigations and studies of Mr. E. R. Faribault.

Resuscitation from Mine Cases.—Technical Paper No. 77, United States Bureau of Mines, report of committee. 36 pp.; illustrated. It outlines manual and mechanical methods of artificial respiration, experiments with commercial devices, etc.

The Humidity of Mine Air, with special reference to coal mines in Illinois. By R. Y. Williams, United States Bureau of Mines (Bulletin 83). It is devoted to a resume of mine humidity investigations, methods of humidification, conclusions and suggestions.

A Study of the Oxidization of Coal.—By H. C. Porter and O. C. Ralston, United States Bureau of Mines. 30 pp.; 6 x 9 in. Rate of oxidization of different coals compared and factors affecting described. Experiments to determine nature of oxidization reactions outlined.

Valuation of Ohio Public Utilities.—Report of a joint committee of the Public Utilities Commission. 42 pp.; 6 x 9 in.; price, 50 cents. It outlines the committee's formulation of principles as applied to "Reproductive cost new, less depreciation," method of valuing public utilities.

Topographical Surveys Branch.—Annual report for 1913 of this Branch, Department of the Interior, Ottawa. 226 pp.; 6 x 9 in.; 17 maps and profiles; numerous illustrations. It contains the report of the Surveyor-General, various schedules, lists and statements, and the reports of surveyors.

Timber Conditions in Alberta.—A report on the timber conditions of Little Smoky River Valley and adjacent territory. By J. A. Doucet, Forestry Branch, Department of the Interior. 52 pp.; illustrated. It outlines general conditions, report on the country by blocks, fire protection, and the proposed forest reserve.

Telephone Systems.—The Ontario Telephone Act and Amendment thereto. Extract from report of Ontario Railway and Municipal Board for 1913. Specifications for construction of telephone systems. Forms of petition, by-laws, etc. 60 pp. Copies on application to the Ontario Railway and Municipal Board, Legislative Buildings, Toronto.

The Double-Curve Motive in Northeastern Algonkian Art.—By Frank G. Speck, Geological Survey, Department of Mines, Ottawa. It contains very interesting information respecting the occurrences of the motive among the tribes south and north of the St. Lawrence and in adjacent areas westward. There are 18 plates and 25 figures of note.

Forests, Waterways and Water-Powers.—Report of the select standing committee, Ontario Legislature. 28 pp.; 6 x 9 in. The committee's report has appended to it: (1) Conservation of natural resources in British Columbia (7 pages); Sir Richard McBride. (2) Work of the Provincial Forestry Department in British Columbia (11 pages); H. R. McMillan.

Irrigation.—Annual report for the year 1913 of the Department of the Interior. 172 pp.; numerous illustrations. It contains reports on the districts of Calgary and Maple Creek; on special inspection; on the South Saskatchewan and St. Mary River diversion projects; stream measurements; Bow River flood discharge and floods in the North Saskatchewan drainage basin.

Thermal Properties of Steam.—By G. A. Goodenough. Bulletin No. 75, Engineering Experiment Station, University of Illinois, Urbana, Ill. 69 pp.; 6 x 9 in.; illustrated. It presents a critical discussion of the experimental investigations, an outline of the thermodynamic relations that must be satisfied, and the development of a general theory of superheated and saturated steam.

Lode Mining in Yukon.—An investigation of quartz deposits in the Klondike Division, by T. A. MacLean, M.E., Mines Branch, Department of Mines, Canada. 222 pp., with 6 maps, 36 sketches and 40 photographs; size, 6 x 9 in. The report deals with the quartz deposits in the mining districts of Duncal Creek, Conrad and Dawson, with a view to describing their gold contents and reporting upon their economic value.

Water Measurement in Open Channels.—A description by C. R. Weidner, C.E., of the diaphragm method for the measurement of water in open channels of uniform cross-section. Issued as Bulletin No. 672 of the Engineering Experiment Station, University of Wisconsin, Madison, Wis.; price, 25 cents. 72 pp.; size, 6 x 9 in.; 6 plates; 30 figures. Describes the apparatus in various European stations, giving results of tests, etc.

Port Directory of the Principal Canadian Ports and Harbors, 1913-14.—Department of Marine and Fisheries, Ottawa. 305 pp.; fully illustrated; 6 x 9 in.; bound in cloth. The volume contains, in addition to the above, data respecting a large number of minor ports, wharves, depth of water, facilities for loading, etc.; also descriptions of types of aids to navigation in Canadian coastal and inland waters, navigable distances of many rivers in the north-west of Canada, and general information for mariners.

The Copper Smelting Industries of Canada.—By A. W. G. Wilson, Ph.D., chief of the Metal Mines Division, Department of Mines, Canada. 184 pp.; 6 x 9 in.; 43 plates, 4 maps and 39 illustrations. The report takes up the various smelters by provinces in Chapter 1. Following it are chapters devoted to the Canadian Copper Co., the Mond Nickel Co., Limited, the Consolidated Mining and Smelting Co. of Canada, Limited, Granby Consolidated Mining, Smelting and Power Co., British Columbia Copper Co., Tyee Copper Co., miscellaneous summaries and statistics of copper production.