

with trimmers, tie and shingle machinery, etc. Five boilers and a pair of engines, 22" diameter and 3 feet stroke, supply about 300 h. p. The burner for sawdust is 30 feet diameter and 145 feet high. The product of these mills is largely deals for the English market, which are shipped mostly by rail to Montreal. At the different mills of the company about 800 hands are employed during the sawing season.

The planing mill at the New Edinburgh mills is one of the most complete establishments of its kind in Canada, and consists of seven buildings devoted to planing, sawing, drying and storing. At the entrance are the offices of the manager of this department, Mr. Armstrong. The large stone building in the front contains the draughtsmen's offices, back of which is the large work room and cutting-up department. The sash and blind department and box factory are fully equipped with improved machinery. The dry kiln is 48 x 48 feet, and is situated above the boiler room. On the first storey is the door department, and the finishing and paint room, with glass room above. A store room, 40 x 100, is situated above the box factory. The third storey is used for storage purposes. The building is heated by the Sturtevant hot air system. In the engine room are two boilers of 85 h. p. each, which are used for heating and drying, and drive a small engine at night. A Stephenson duplex water wheel of 100 h. p., supplied by a 30 feet head from the Chaudiere Falls, operates the machinery.

Another building is a frame structure, 84 x 36 ft. The ground floor is used for storing kiln-dried lumber, and the top floor for the sashes and doors.

The planing mill proper is 130 x 35 ft., the ground floor containing the planing and moulding machines and re-saws, and the top floor being devoted to mouldings. Beneath the building is a Stephenson duplex water-wheel of 200 h. p. and 43 feet head.

In a two-storey building, 24 x 96 ft., is stored the fancy hardwoods and other kiln-dried lumber, while in another building, 132 x 48 feet, the dressed lumber is taken care of. A shed of two stories, 156 x 48 feet, has recently been completed, which will be used for rough lumber, and will have a capacity of one million feet. The heavy hardwood shed is 134 x 20 feet, and is situated alongside the new offices.

PEMBROKE LUMBER COMPANY.

Amongst the best known lumber manufacturers of the Ottawa valley is the Pembroke Lumber Company, whose mills are at Pembroke, Ont. The composition of the firm is as follows: Hon. Peter White, late speaker of the House of Commons, Andrew White, C. Chapman, Mrs. A. Dunlop, Judge Thos. Deacon and John Bromley, the latter being the general manager.

The timber and lumber mill was built 25 years ago in the Ottawa river on piers, the space between the shore and the mill being long since filled up. The first owner was John Rowan, who sold it to W. R. Thistle, who in turn sold it to the present owners. Since coming into possession of the present owners, substantial improvements have been made and its capacity doubled. The dimensions of the mill are 250 x 40 ft., 2 stories, with lath mill annex 20 x 50 ft. and boiler and engine rooms 20 x 60 ft. and 30 x 60 ft.

In the mill are two circular saws, one made by Shurly & Deitrich, and the other by the James Robertson Co. The carriages were built by the Waterous Company, and are capable of taking on a log 30 inches in diameter and 65 feet in length. They are propelled by steam feed. The edgers and sash table machinery are also of the Waterous make. The slabs and boards from the dimension timber are cut into proper lengths and butted by four butting saws, two to each live roller table.

In the boiler room, of brick, are three "Waterous" boilers of 100 h. p., supplying steam to a Waterous engine of 125 h. p., and also to a smaller engine used to operate the planing mill. The platform in front of the saw mill will hold 300,000 feet of lumber, and all of the dimension timber is loaded on cars direct from the saw.

The planing mill is separated from the saw mill. It was erected in 1892, is frame, 230 x 60 ft. and two stories high. The machinery is two double surface planers built by Cowan & Co., of Galt. The lumber is fed to the planers by rollers and is then loaded on cars, which are drawn upstairs on an incline by a friction pulley and rope, where it is unloaded. On a level with the first floor is a platform 50 x 80 ft., which is on



PEMBROKE LUMBER CO.'S SAW MILL, PEMBROKE.

a level with the G. T. R. flat cars which pass alongside. The lumber is loaded from trucks onto the cars ready for shipment.

The yards are very extensive, affording piling ground for a large quantity of lumber. Upwards of 120 men are employed around the mill. On an average of 100,000 logs are always floating in Lake Allumette, an expansion of the Ottawa river.

On Lake street are the commodious business offices of the company, with stores in rear. Mr. Bromley is assisted in the management of the affairs of the company by his son, and the large connection which has been established requires their close attention. The accompanying cut will enable the reader to judge of the extent of the mills and the variety of lumber manufactured, which is shipped to various parts of the world.

MR. J. R. BOOTH.

To Mr. J. R. Booth, of Ottawa, belongs the distinction of being the largest saw mill operator in the world, while the area of timber lands in his possession is also said to be greater than that owned by any other one person in Canada. Until two years ago Mr. Booth operated two mills on the Chaudiere river at Ottawa, but during the summer of 1894 the larger of these two was destroyed by fire. This mill contained fourteen band saws, four gangs and four twin circulars,

and was said to be capable of cutting one million feet per day. The average cut for six months was over 100,000,000 feet, while about one thousand employees were required for its operation. This will give our readers some idea of its magnitude. The other mill operated by Mr. Booth was the old Perley & Pattee mill, which was purchased some years ago and remodelled. It is now one of the most complete establishments of its kind in Canada, and by running day and night during the sawing season makes an annual output of 100,000,000 feet. The equipment of the saw mill proper comprises four band mills, two Wicks gangs, and a pair of twin circulars. In the timber mill is one band saw, while the slab mill contains three re-saws. Three lath tables and two picket tables are located in the lath mill.

Ample power for the operation of the mill is furnished by the Chaudiere falls, and the water-wheels have a capacity of 4,000 horse power. A complete electric plant supplies light to the mills and yard, the latter covering an area of 160 acres. Some idea of the benefit derived from such an establishment may be estimated from the fact that Mr. Booth has now in his employ upwards of 1,800 hands. His limits at the head

waters of the Ottawa comprise 5,000 acres of timber lands.

Forty-four years ago Mr. Booth was a millwright working in Ottawa. He first commenced business by leasing a saw mill with one saw, and by industry and progressiveness has succeeded to such an extent that he is said to be the largest owner of property in Ottawa, with the exception of the government. Not alone in the lumber business has his business ability and enterprise been shown. The Ottawa, Arnprior and Parry Sound Railway, which extends from Ottawa to Parry Sound, a distance of upwards of 260 miles, and passes through a portion of the province which had hith-

erto been practically devoid of railway facilities, was constructed largely through the instrumentality of Mr. Booth. This road promises to be of great benefit to lumbermen, and to aid materially in the development of the surrounding country.

THE HULL LUMBER COMPANY.

The lumber business carried on for some years by the firm of Buell, Hurdman & Co. has been taken over during the past summer by the Hull Lumber Company, which is composed of A. A. Buell, of Burlington, Vt., W. G. White, of Albany, N. Y., F. W. Avery and C. E. Read, of Ottawa, and J. M. McDougall, of Hull. The capital stock of the company is placed at \$600,000. Their limits are situated on the Petawawa, Magnacippi, Mat-tawa and Kippewa rivers. They manufacture largely deals for the English market, together with considerable lumber, siding, etc., for the United States trade, their annual output being about 50,000,000 feet.

The company operate two mills on the Ottawa river at Hull, just across from the city of Ottawa. One is 85 x 135 feet in size, water power, driven by two "New American" water wheels. The machinery comprises three band saws, a Wicks gang, two double edgers, two pair double butters, with live rollers, log turners, transfers and other necessary equipment to accompany same.