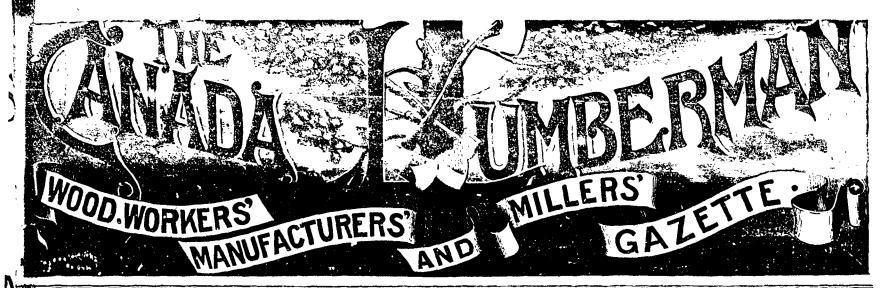
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TORONTO, ONT., FEBRUARY, 1897



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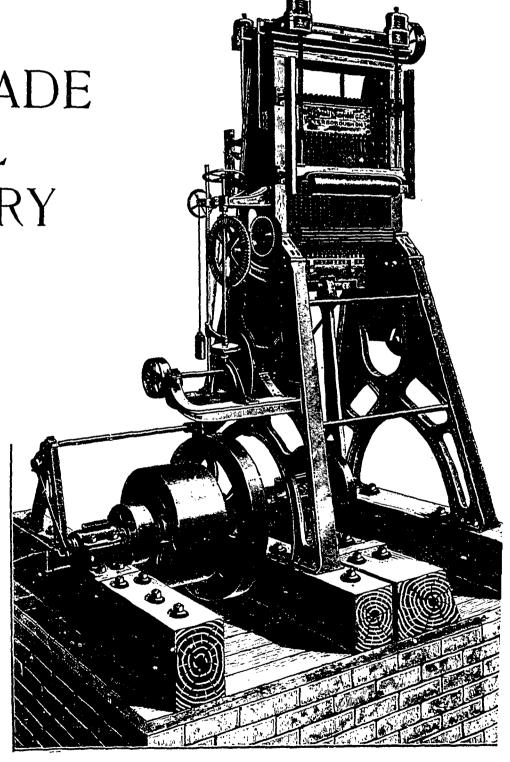
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THE CANADA LUMBERMAN

VOLUME XVIII.

TORONTO, ONT., FEBRUARY, 1897

TERMS,\$1.00 PER YEAR Simile Contes to Cente

MR. JOHN CHARLTON, M. P.

As a lumberman and statesman, we take pleasure in placing before our readers a portrait and biographical sketch of Mr. John Charlton, M. P., of Lynedoch, Ont., the worthy representative for North Norfolk in the House of Commons. Born in humble circumstances, but with abundant persevering qualities, he has gradually risen to a high position of honor and commercial status.

The subject of our sketch was born near Cale-

donia, Livingstone County, New York, on February 3rd, 1829. His father, Adam Charlton, came from Newcastleon-Tyne to New York in 1824. The Charltons are one of the oldest families in England, and their geographical records in Northumberland date back to the eleventh century. After receiving his education at the Grammar School at Caledonia and Springville Academy, N. Y., Mr. Charlton worked for several years on the farm with his father. At Ellicottville, N. Y., he tearned to set type, and spent a portion of his time reading law. In 1846 he made a trip on a lumber raft down the Allegheny and Ohio rivers to Cincinnati, and his later years he has always retained vivid recollections of this five weeks' experience with the rough but warmhearted raftsmen.

When his father removed to Canada in 1849, Mr. Charlton was 20 years of age. They settled near Ayr, Waterloo County, and four years later, in partnership with Mr. George Gray, he launched out into mercantile life, starting a country store at Wilson Mills, under the style of Gray & Charlton. Their combined capital was about \$1,800, including the cost of the building which they erected. The country being yet sparsely settled, pine timber was abundant, and the firm shortly after starting business engaged

in the timber trade in connection with Smith, Westover & Company, of Tonawanda, and by dint of economy and industry were eminently successful. In the year 1859 Mr. Charlton sold his interest in the store at Wilson Mills and took entire charge of the extensive Canadian timber business of Smith & Westover. Two years later, in conjunction with Mr. James Ramsdell, he bought out the Canadian interest of the above firm, and for four years the firm of Ramsdell & Chariton carried on a successful business. He purchased the interest of his partner in 1865, and conducted business on his own account for several years. Since that time he has been associated with Mr. Alonzo Chesbrough, of Toledo, Ohio, and was at one time manager of the lumber firm of Chesbrough & Charlton. Lately he has

been associated with his brother Thomas, the firm name being J. & T. Charlton. They have extensive interests at Tonawanda and in Michigan, a sash and door factory being a portion of the Tonawanda business. In 1854 he married Miss Ella Gray, of Lynedoch, where he now re-

His first connection with politics was in 1872, when he accepted the nomination for the House of Commons in North Norfolk and defeated Aquilla Walsh, after a bitter fight. Ever

sides.



MR. JOHN CHARLTON, M. P.

since he has continued to represent that constituency, being returned at every election. He is a staunch Liberal, and has always taken an active and laborious interest in the House of Commons. In early life he was somewhat of a Protectionist, but now favors a revenue tariff policy, and is a strong advocate of closer relations between Canada and the United States. A fortnight ago he visited Washington, for the purpose, it is said, of negotiating a new reciprocity treaty with that country.

In religion Mr. Charlton is a Presbyterian. He is of a genial and kindly temperament, but possesses firmness of character and tenacity of purpose. He has a wide knowledge of the resources of Canada, and s recognized as one of the ablest public speakers in the Dominion.

LUMBERMEN BEFORE THE TARIFF COM-MISSIONERS.

THREE prominent lumbermen, Mr. J. R. Booth, Hon. E. H. Bronson and Mr. Robert Reford, gave an expression of opinion on tariff matters before the Commissioners at Ottawa. Mr. Bronson said he was not disposed to demand any changes, but thought the removal of the duty on corn would stimulate the production of pork and thus help the lumber trade. To Mr. Davies' reply as to what proportion of home fed

pork was used among lumbermen, Mr. Bronson replied that he used American pork almost exclusively, as a heavier pork was required in their business than was generally raised in Canada. Canadian pork he thought just as sweet and good as any other, but the heavier American pork did not waste so much in cooking. He referred to the agitation to impose an export duty on Canadian logs and pulp wood, and said he would bespeak for the lumbermen a hearing before such action was taken.

Mr. Fielding stated that it had been represented to him that Canadian fed pork had greater success in England than American owing to the fact that corn was not used for feeding purposes.

Mr. J. R. Booth also favored the removal of the duty on corn and pork. He thought it in the interest of the great working class that the duty on pork should be reduced and made as cheap as possible. There was no doubt, he said, that the duty had been placed on pork to benefit the farmer, but he was inclined to think that the duty was a greater hindrance to the working classes than a benefit to the farmers. The present duty is \$2 per barrel, and he did not know that Canadian pork was consumed to any greater extent than formerly. He used American pork almost exclusively in his lumber camps for the reason that

he could not generally get Canadian pork in sufficiently large quantities when he required it, and also for the reason that Canadian pork did not keep so well. Mr. Booth stated that it would be only fair if pork were made cheaper for our lumbermen. No trade has ever had more reverses to struggle against than the lumbermen, he said, "and very tew men have spent their life time in it and not died poor."

Mr. Robert Reford, of Montreal, asked an imposition of a duty on saw logs. He contended that at present the Americans were getting Canadian timber for practically nothing, while the Canadian forests were being rapidly depleted, with nothing to show in return. He had reason to believe that Canadian lumber was sold in Ottawa to Americans at \$4 per thousand, or less

than the cost of production. Ecrests did not replace themselves for years, and some active measures should be taken to prevent depletion. He did not think that the law restricting the size of trees to be cut was enforced. With respect to pork, Mr. Reford said that he considered Canadian pork much superior to that from the States. He had found it a most profitable business, and as for corn, there was much grown around Montreal, and the farmers were increasing the acreage under corn, finding that it could be raised profitably.

ANDRE CUSHING & COMPANY.

IN a recent issue of THE LUMBERMAN we gave some particulars of the construction and equipment of the large



MR. GEO. S. CUSHING.

saw mill of Andre Cushing & Company at St. John, N. B. In this number we are pleased to present a more detailed description, together with a photograph of the mill and portraits of Messrs. George S. Cushing, Theophilus Cushing, G. L. Purdy and F. H. Jobson.

The mill deserves special notice as being the largest and most modern saw mill in the maritime provinces. The situation is unique in that it is within a stone's throw difference of twenty-five to thirty feet between high and low water—spent some £80,000 in cutting a channel through the neck of land forming the point, and erected a saw mill with a number of single saws that were operated when the tide suited in sawing the large pine that was common on the St. John river at that time. This mill, however, was not a success, and was abandoned. All that remains of the enterprise is the channel, which is through solid rock, and looks as if it would last as long as water runs.

About the year 1852 the first steam mill was built on the extreme point, about in line with the break of the falls, the firm being Andre Cushing & Co. They had the misfortune to be burned out several times, but each time rebuilt on a larger scale. The last fire occurred in the spring of 1895, and for a time the impression was general that the mill would not be rebuilt, consequently the outlook for the large number of employees was not reassur-However, as it afterwards transpired, Mr. George S. Cushing, the master mind of the firm for the past few years (the original members of the firm having died some years ago), while not saying much, had kept on thinking and planning, with the result that he purchased the interests of the heirs in the estate-retaining the old firm name and in the fall of 1895 operations were begun to rebuild on a more extensive scale than ever before.

During the year after the fire Mr. Cushing was not idle; he had large lumber contracts in hand at the time of the fire which had to be filled, in which he succeeded, and, besides, he visited the large saw-milling centres to acquaint himself with all the latest saw mill equipments, and, having decided to rebuild, selected those that seemed best suited to his requirements. Owing to the improved machinery he selected, the old site was not deemed suitable, so he began on new ground altogether, but only a short distance from the old site.

Mr. Cushing's judgment was that the first and most important feature in the new enterprise was the power, the order for which he placed with Mr. James Fleming, proprietor of the Phoenix Foundry, St. John. The power plant consists of two horizontal engines of 250 H. P. each, right and left hand on same shaft, with belt fly wheel 12 ft. x 4 ft., six tubular boilers (three of which are sufficient to furnish steam), set with patent sawdust furnaces. These are all placed in a brick fireproof building, with a brick wall dividing the engine room from the boilers, and the whole separated from the mill proper. In the engine room there is a steam pump for fire protection,

band mills made by The Filer & Stowell Co., of Estimake, one on either side of mill; one Wilkin's compensating direct action steam gang placed in the centrol of mill; two patent parallel gang edgers; patent & slasher made by the Stearns Mfg. Co., Erie, Penn., wh. Cearries eight 42" saws; automatic trimmer, Waterd make, also carrying eight saws. These machines are, placed that with the live rolls and transfers used it lumber and slabs are carried to their respective definations with very little attention and without a hitch, a planer is placed conveniently near the automatic trimes so that lumber requiring it can be dressed before going the yard.

The lath and box mill is in an addition at the side of main mill, the material for which is delivered from a slab slasher very convenient to the operators, while a refuse is carried back to the main conveyor and deliverat the different points required.



MR. THEOPHILUS CUSHING, Superintendent.

The logs are taken from pond to bed of mill on an eless chain and rolled off on either side by large iron eccentrically placed on a shaft under the floor, shaft is so arranged that it can be turned either way, throwing the log to either side as desired.

There are steam canters or "niggers" for both t mills, as well as " ickers" for throwing the log ont log carriages. . these appliances are of the latest



Andre Cushing & Company's Saw Mill, Union Point, St. John, N. B.

of the only "Reversible Falls" - very aptly termed by the inimitable Burdette on the occasion of his first visit to St. John—of any magnitude in the world. It is situated on what is called Union Point, on the western bank of the St. John river, just above the railway cantilever and the suspension bridges that span the St. John river where it empties into the St. John harbor, and is a natural mill site, as just behind the point on the upper side is a larger bay, in which any quantity of logs can be held and floated to the mill at any time of the year. Admirable piling grounds and wharves line the upper side of the point, from which vessels take in their cargoes for any port.

Before steam became the recognized power for sawing lumber, some Americans took advantage of the location, and on account of water power to be had during a part of the time—owing to the ebb and flow of the tide giving a

and a very complete electric light plant which supplies light to the mill, wharves, pond, yard and offices. The city laid water pipes to the mill and several hydrants are conveniently placed, which, with plenty of hose, would seem to make the fire risk a safe one.

The mill proper is 226x60 feet, three stories high, built on a stone and brick foundation. The power is taken by a double leather belt four feet wide through the side of main mill to a line of shafting running lengthwise of the mill, from which leads belts and gears to drive all the machines which are placed on the floor above. On the same floor as the shafting are the saw-dust, refuse and slab conveyors, the saw-dust going to the boilers and the refuse to a large and long conveyor leading to the fire dump.

The sawing equipment consists of the following: Two

most approved patterns for their respective require
Underneath the floor, conveniently placed in the
of log bed, is a steam jump-up say 60" diameter for

of log bed, is a steam jump-up saw 60" diameter for the logs to any desired length, and for trimming the of logs that are gravelled or "rocked" in driving saving the band saw many a bad tooth.

The filing room is nicely situated one story abe mill floor and equipped with an engine to drive the sary grinders, toothers, rolls, etc., for keeping the in order. The location, arrangement and equipr very convenient and complete in all its parts.

The building of this mill has put a large amomoney in circulation in St. John, and was a boon men employed in its construction as well as to the founders and machine shop owners who supplic part of the outfit, some \$20,000 being spent in the

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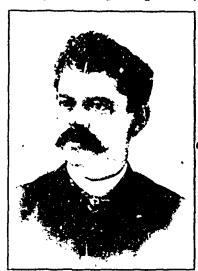
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KSt. John. The superintendent in charge of construction cowad Mr. Frank H. Jobson, of Portsmouth, Virginnia, who exhan had a large experience in such work in the United States, and he has admirably succeeded in reaching Mr. sh.Cushing's ideal as to what an up-to-date saw mill should rebe.

re. The mill has been running night and day most of the I time since early in the summer, and has been a success defrom the start, which speaks well for the management, to i, whom this style of mill was comparatively new. The nacapacity is in the vicinity of 40,000,000 superficial feet per ingyear. Mr. Theophilus Cushing is the general superintend-



MR. G. L. PURDY, Book-Keeper.

ent, Mr. Gilbert L. Purdy the book-keeper, and James S. Gregory chief clerk. The firm are in a position to manufacture spruce lumber for any market, and being wide-awake, shrewd and business-like naturally sell where they get the best returns. Personally Mr. George S. Cushing, the chief member of the firm, is a whole-souled mean, whom it is a pleasure to meet. In business affairs in this boldness is nicely blended with caution. Of keen treasoning powers, good judgment and decision of charay, eacter, he easily and quickly arrives at correct conclusions.

INTERESTING INSURANCE CASE.

Judgment has been given in the long-pending suit of lest; the Katrine Lumber Co. against the different insurance companies to recover the amount of insurance on a saw mill at Katrine, Ont., destroyed by fire last summer.



MR. FRANK H. JOBSON, Millwright and Builder.

or cut:
the eThe decision is in favor of the Katrine Lumber Co., and ing, is as follows:

Ratrine Lumber Company v. The Union Assurance love Society, \$5,346 25; Phoenix Insurance Company of Harthee and, \$2,775; Liverpool, London & Globe Insurance the stompany, \$17,860 65; Insurance Company of North ipmer Imerica, \$5,000; Lancashire Insurance Company, \$8, 85; total, \$39,266 90. These cases came up for trial at unoughe Assizes at Hamilton, before the Hon. Judge Rose, on to Ar. Wallace Nesbitt, of Toronto, and Mr. S. F. Washingthe Lon, of Hamilton, appeared for the plaintiffs; Mr. D'Alton plied racCarthy, Q.C., and Mr. H. S. Osler, of Toronto, apthe cases area for the insurance companies. The claims arose

out of a fire or fires at Katrine, near Parry Sound, on the 7th and 8th of May last, when the mill and a large quantity of lumber and other property were destroyed, and some ears belonging to the Grand Trunk Railway Co. Mr. J. J. C. Thompson was the manager of the lumber company, and made a statutory declaration as to the loss, that the fire on the 8th of May was caused by embers from the fire of the previous day; also that the fires were not caused by any wilful act or neglect of his or by his procurement, means or contrivance, or by any officer of the Katrine Lumber Company. The defendant companies claimed that these statements of Manager Thompson were untrue, and that the statements about the fire, loss, etc., were fraudulently made. They claimed that if the fires were not caused directly by Manager Thompson they were the result of his negligence in not having his property properly watched, and they further alleged that his claims for damages were largely in excess of the actual losses. There being a disposition for settlement his Lordship gave counsel time to consult their respective clients, and the outcome was a settlement reached about 5 o'clock, when Mr. Osler stated:-The parties have arrived at an agreement which will involve, in the first place on the part of your Lordship, an order consolidating all the cases into one and treating them as one. In the event of the sum of \$38,000, the amount agreed upon to be paid by the defendants to the plaintiffs as the amount of the loss, not being paid within ten days from this date, judgment may be entered against all the companies in the consolidated actions for such amounts as each should bear proportionate to the amounts under the different policies as the sum of \$38,000 bears to the losses computed at something over \$39,000. And in making this statement of the agreement arrived at to your Lordship, I think it is right I should say something in regard to the circumstances leading up to the payment of the losses at this stage of the case. Shortly after the fire, in May last, a letter, which can only be characterized as a blackmailing letter-I need not specify it more particularly-was sent to the plaintiffs by a man who had occupied the position of yard foreman and general superintendent outside at the mill, making statements and insinuations, and indicating that he had such knowledge as if divulged would implicate the plaintiffs, and particularly the manager of the plaintiffs, Mr. J. J. C. Thompson, as having practically committed the crime of arson, and burning the buildings with the object of collecting the insurance. I do not think I am putting that too strongly as the charge in the letter referred to. It is only fair to Mr. Thompson to say that immediately on receiving that letter he forwarded it to the companies; that letter was received by the companies from Mr. Thompson, who sent it on with a letter stating as it was but a black-mailing scheme he would take no notice of it, but he thought it right to place it before the companies, so that they might have an investigation if they so desired. The companies did not make the investigation, but other parties who had lost by the same fire undertook an independent investigation subsequent to that. The result of that was the obtaining of statements from a considerable number of witnesses, these statements were prepared to be signed by these parties, these being witnessed by independent persons, and without passing through the hands of the persons who got them placed in the hands of the insurance companies. These statements professed to carry further the statements implicating the plaintiffs contained in the letter referred to. Further investigation resulted in further similar statements. Upon these statements the defences were placed upon the record and particulars ordered from time to time. The defence and particulars were entirely based on these statements. Since the case has been upon the list, and more particularly yesterday and to-day, I myself personally have examined and crossexamined these witnesses on their statements, and it is only fair to say that in so far as these statements profess to implicate Mr. Thompson in any way the witnesses have contradicted them; they have stated that they were not correctly taken down; in other words, they failed to bear out the statements signed by them and sent to the companies. That having been the case counsel can only say they think the evidence as it now appears to them, and as it would appear if brought before your Lordship and the jury, would show these statements were entirely without foundation in fact, and we are very glad to say that is the case, and that that would be the result of the verdict of the jury there is not the slightest doubt. Upon communication with the companies advising them of that fact the

companies have instructed counsel to agree to the payment of the losses, and in saying so I may say the question of the difference of amount between the sum to be paid and the sum claimed is not to be regarded in any way as a compromise. The companies having ascertained the position in that way are paying the amount of the claim, and the amount of \$38,000 is agreed upon as the amount of the loss which the companies ought to pay here. I need scarcely add that all charges or allegations of any kind implicating Mr. Thompson in the pleadings and particulars are of course withdrawn, or charges or allegations made in connection with anyone connected with the company.

His Lordship expressed himself as satisfied and directed that an order be drawn up embodying the terms of the judgment and issued.

EFFECTS OF THE PROPOSED TARIFF.

THE following communication on the proposed lumber tariff appears in the Detroit Tribune:

DEAR SIR,-I notice that an attempt is being made by a large number of lumbermen in the Western and Southern States to have a duty of at least \$2 per M placed on lumber entering the United States for consumption. The lumber business is not a new industry, and should certainly now be able to stand on its merits; and I do not think class legislation of this kind can be of any possible benefit to any country. It is a general well-known fact that the lumber trade is in a very depressed condition. There are several causes for it. First, in my opinion it is the very low market price of cereals that has prevailed for several years, which would greatly lower the purchasing power of the country at large. Second, expensive habits have been gradually fostering themselves on the community until they began to exceed legitimate income, and a time for retrenchment has forced itself on the country. Lumber enter ag largely into any improvements at once feels heavily any retrenchment of the general expenditure. Third, manufacturers of lumber have not fully realized the contraction of the purchasing power of the country at large, and have continued the practice of getting out full stocks, causing a surplus of lumber far beyond the requirements of the market. Being mostly manufactured for home markets, it is not suitable for export, consequently large stocks have been thrown on the market at a figure below the actual cost of production. Under these conditions your lumbermen are looking to their good mothers, the tariff commissioners, to come to their rescue, and hope to enlist their sympathy by saying it is cheap labor and cheap lumber from Canada which is causing all the trouble. What are the facts? I will state a little of my own experience. I have been in the lumber business upwards of 30 years in Canada, and purchased all my stock in our home markets until 1894, when the duties on lumber were removed by both the Canadian and the United States governments. I made a tour through some of the principal lumber districts of your country and purchased a portion of my stock, and have continued to do so ever since. During 1896 I purchased nearly all my stock in Michigan, Minnesota and the Southern States, at lower prices and better suited to our requirements than any we could secure in our own country. A large quantity of lumber is shipped from our country to the United States, but it is principally from our lower provinces to the eastern markets, where the delivery is materially affected by freights. It must be to the advantage of the consumer to be able to purchase what he may require in the nearest market. Should the proposed duty be placed on Canadian lumber, certainly its equivalent will be placed on the export of Canadian logs, which will have the effect of closing a number of your large mills on the border states and stimulate its manufacture in this country. Your manufacturers again would have to meet our lumber in competition in foreign countries. We do not think the difficulties of your lumbermen would be improved by the course of legislation proposed, and verily believe that they might as well endeavor to lift themselves up by their own boot straps as to endeavor to improve their condition by the course proposed.

Yours truly,

Силтилм, Jan., 9th, 1897. John Piggott.

Mr. E. W Bennett, of Detroit, states that the Canadians are $\tan x_0$ kindly to yellow pine. Last season he executed a Montreal order for eight car loads of $22 \times 26 \times 36$ ft., and also sold 2,000,000 ft. in another Canadian city.



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THE CANADY LUMPERMAN is published in the interests of the lumber trade and of allied industries throughout the Dominion, being the only representative in Canada of this foremost branch of the commerce of this country. It aims at giving full and timely information on all subjects touching these interests, discussing these topics editorially and inviting free discussion by others.

Especial pairs are taken to secure the 'atest and most trustworthy market quotations from various points throughout the world, so as to afford to the trad in Canada information on which it can rely in its operations.

Special correspondents in localities of importance present an accurate report at only of prices and the condition of the market, but also of other matters specially interesting to our readers. But correspondence is not only welcome, but is invited from all who have any information to communicate or subjects to discuss relating to the trade or in any way affecting it. Even when we may not be able to agree with the writers we will give them a fair opportunity for free discussion as the best means of eliciting the !! Any items of interest are particularly requested, for even if not of great importance individually they contribute to a fund of information from which general results are obtained.

Advertisers will receive careful attention and liberal treatment. We need not point out that for many the Canada Lumerranan with its special class of readers, is not only an exceptionally good medium, for securing publicity, but is indispensable for those who would by githemselves before the notice of that class. Special attention is directed to "Wanten" and "For Sale" advertisements, which will be inserted in a conspicuous position at the uniform price of 15 cents per line for each insertion. Announce gents of this character will be subject to a discount of 25 per cent, it ordered for four successive issues or longer.

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Lumbermen visiting Toronto are invited to use the office of the CANADA LUMBERMAN as their own. We shall take pleasure in supplying them with every convenience for receiving and answering their correspondence, and hold ourselves at their service in any other way they may desire.

OUR FOREIGN TRADE.

CANADIAN lumbermen have in the past year succeeded in extending their trade with many foreign countries, which, in the face of the depression in the United States, is particularly encouraging. The eastern provinces have catered largely to Great Britain, South America and the West Indies, while the statistics which appear in our Annual Review show that British Columbia is reaching out with success for foreign trade. The largest shipments were made to South America, South Africa, Australia, Great Britain and China. Unfortunately, Ontario has made little apparent advancement in the direction mentioned, apart from Great Britain, although it is quite possible that a larger percentage of our lumber was shipped to the United States for reshipment to foreign countries than heretofore.

Canada is, however, apparently slowly awakening to the necessity of controlling her own export trade, instead of allowing it to be conducted by the United States without any credit whatever being given to Canada. In this connection we note with pleasure the published statement that next season vessels will probably sail between Montreal and Australian points, as recommended by Mr. J. S. Larke, Canadian Commissioner for Australia. At Cape Town, in South Africa, a bureau for the representation of Canadian goods has been established, where every facility is afforded the Canadian exporter.

Until direct steamship lines are established between Canada and foreign countries the development of our foreign trade is likely to be somewhat slow. The difficulty in this direction has been in obtaining profitable cargoes both ways.

As a means of extending the Canadian lumber trade, we commend for consideration the suggestion made by Mr. Haynes, of the Timber Trades Journal, that we should increase our manufactures of wood. The high carrying charges practically prohibit the exportation of low grade lumber, but were this lumber manufactured into furniture, etc., it could be placed upon the foreign market at a profit.

EFFECTS OF OVER-PRODUCTION.

In the past the tendency of lumber manufacturers has been to almost entirely disregard the law of supply and demand, and produce a large output without giving consideration to the condition and requirements of the market. In his desire to annually increase the returns from his business, stimulated by the surmise that his neighbor will curtail operations, the average manufacturer has, year after year, continued to operate on a large scale. The natural effect of this has been to depreciate values and to depress trade in general. Owing to the lower prices obtained, the manufacturer finds at the close of the year that, while he may have succeeded in disposing of his entire output, the profits accruing therefrom were so small as to reduce the net receipts to a lower figure than the preceding year, when the volume of business was considerably less. This, in a measure, accounts for the depression which has prevailed in the lumber trade of the United States and Canada during the last few years, although it must be admitted there have been other influential agencies at work. Over-production must of necessity be followed by a weakening of the market. Manufacturers find themselves unable to hold their stock, and consequently, to secure capital, are obliged to dispose of it at a low figure.

A striking illustration of the effect of over-production is shown in the case of birch timber. During the winter of 1895-96, as the result of a firm market for birch in Great Britain, there was manufactured a very large quantity of this class of timber, several small operators entering the field who had not previously taken out square timber. Quebec houses contracted for 18-inch average at 27 cents per cubic foot, for delivery in the summer of 1896. The result was the overstocking of the British market and a sharp decrease in prices towards the close of the season, the effect of which is manifesting itself in the transactions for next year. While 27 cents was freely paid last winter for birch of 18-inch average, the same class of timber has been offered at Quebec within the past two weeks at 22 cents, and refused by buyers. It will require some time for the birch timber market to regain its position, in spite of the fact that consumption is active.

Notwithstanding the above facts, it is encouraging to observe that lumbermen are gradually becoming convinced of the necessity of curtailing

operations to a point in keeping with the mand, as is shown by reports which have read this office from over fifty manufacturers in tario. Referring to the extent of operation the woods, these reports state that the output logs will be fully fifty per cent. less than winter. Some manufacturers are not operational at all, while others are putting in a very! stock. These remarks do not apply to the tawa valley, where the production will prob be equal to last season, or to the north-wee section of Ontario, which supplies the Mani-

This decreased output must have an appable effect upon the market, and should ther of 1897 develop satisfactorily, the over-protion of lumber now upon the market will bec a thing of the past.

EDITORIAL NOTES.

THE Dominion Rifle Association have sele plans for the proposed Canadian headquarte Bisley, to be crected the coming sp-The building, estimated to cost \$7,500, i be constructed entirely of Canadian we and should serve to show the adaptability of lumber for building purposes. Canadian lum men should not allow this opportunity to without taking steps to secure the erection building such as will be a credit to Car This may be accomplished by having the of woods utilized in its construction.

THE necessity of obtaining as much firstlumber as possible out of a stock of logs never more apparent than at the present: While coarse lumber has been a drug or market and has depreciated in value during period of inactivity, the better grades have in good demand at firm prices. In the ca white pine this has been particularly notice To meet the extreme competition, it is not necessary to reduce the cost of manufact every possible manner, but also to thorostudy the demands of the market, and end to supply such stock as will meet with a sale at remunerative prices. Had more atte been given to this matter in the past, it is sible that the large stocks of coarse lumber on the market might have been turned to profitable account.

A comparison for the past fifteen years of number of sailing vessels leaving Quebec : how rapid has been the decline of the busir that port. According to J. Bell Forsyth's lar, 459 vessels, with a capacity of 380,186 cleared from Quebec in 1881. In 1886 the ber was reduced to 325, in 1891 to 205, ; 1895 to 86 vessels. The season of it credited with an increase, the total sailing ing 103 and the aggregate tonnage 82,622. number of steamers was also larger, the 1 being 90, against 58 in the previous While Montreal is likely to maintain its t position as a shipping port, it is quite pr that some of the old-time vigor will be re to Quebec as a result of the extension of the industry, much of the raw material for wi found in the adjacent districts. Direct ra nection with the west and the improver the shipping facilities at the harbor wor assist in this direction,

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THE LUMBER TRADE IN 1896.

in gaview of the Business of the year. -Statistics of THE VARIOUS PROVINCES. A MARKED INCREASE IN THE VOLUME OF FOREIGN TRADE.

GENERAL SURVEY. yl The year 1896 was one of unusual uncertainty

hep business circles. It was a year of political oslisturbances both in Canada and the United recitates, and in the latter country the depression mio the commercial interests was aggravated by he fact that the adoption of a national monetary ppstandard was made the basis of the election. ethe lumber trade suffered as a consequence of rehese conditions. The closing down of indusneeries followed the Presidential nominations across he border, and this in turn caused a falling off n demand for lumber. Large stocks were held tt the mills in the white pine districts, and as a esult prices gradually weakened, until before the close of the year they had reached the lowest spoint known for many years. Wholesale dealers

were not disposed to purchase on a declining

narket unless good prospects were presented of

of placing their stock, and the only lumber which

net with ready sale was the better grades.

to Large failures in Michigan induced still greater

aution on the part of purchasers. The foregoing presents the conditions of the rade so far as the United States market is conerned. The year did not pass, however, without its encouraging features. The depression stan the United States was counteracted to a large ogsextent by an increased foreign demand, as will ntipe observed by the statistics of the various or provinces published below.

The British market was particularly active, ive and large quantities of spruce and pine deals and cas poards from Ontario and Quebec and the Marilicatime provinces were placed at good prices. A not arger amount of thin lumber was shipped than acretofore. The trade is fast declining from the protection of Quebec, although the sailings in 1896 nd show a slight gain over the previous year. The annual report of the Harbor Master at Montreal shows that there were shipped from that port during the year, to the United Kingdom and ber Continental ports, 219,032,178 feet b. m. of to rumber, showing an increase of 50, 360, 150 feet, and to River Plate, 7,790,166 feet, a decrease of 583,834 feet from the previous year.

s et The foreign trade of British Columbia was of c swide distribution and considerably greater in Isinevolume than in 1895. The formation of the i's Central Lumber Company enabled manufacturers 186 to obtain better prices, but unfortunately the the combine has been broken and the market is now agin a state of uncertainty. The Manitoba market 18,was firm throughout the year.

ings Speaking generally, the lumber trade of the 22. year was not characterized by the severe deprese fision which is generally believed. All things conus sidered, it must be admitted that the volume of s probusiness was satisfactory. What conditions will preprevail in 1897 it is difficult to predict, although resindications point to an improvement unless tariff f the regulations should disturb the market.

ONTARIO.

whic

The unsettled financial conditions which preould vailed in the United States account in a large measure for the depression which characterized

the lumber trade of Ontario in 1896. Taking the province as a whole, lumbermen look back upon the year as one of unsatisfactory results and disturbing features. Although the output of logs in the winter of 1895-96 was less than the previous season, and notwithstanding the fact that many mills were not operated, the quantity of lumber placed at the disposal of purchasers was too great for the limited demand, and prices suffered in consequence. The volume of trade compares favorably with that of the previous year, but profits have shown a wide diver-

Manufacturers in the Ottawa valley catered largely to the British trade, and succeeded in closing contracts in the fall of 1895 for a large portion of their output of the following season at satisfactory figures. In the west, particularly in the Georgian Bay district, where large stocks were held by both Canadian and American pine manufacturers, sales necessarily depended largely upon the United States market. Late in the spring season the demand increased somewhat and continued fair until early in the summer, when the effects of the then approaching Presidential election across the border simply demoralized trade in general. This condition continued until after the election early in November, during which time prices were reduced to almost the cost of production. This was particularly the case in the lower grades of white pine, of which there were very large stocks at the mills. After the election a better feeling prevailed, and sales increased as a result of a desire to obtain stock before the close of navigation, but the improvement proved to be only temporary, and the closing month of the year exhibited little activity.

Our enquiries from manufacturers regarding the season's trade met with a hearty response. From these it is learned that the total output of lumber was slightly less than the previous year. Sales also show a falling off, while 75 per cent. of the replies tell the one story of small profits. Pine stocks carried over at the mills are large, and consist principally of box and common lumber.

In hardwoods a noticeable feature was the enquiry for mixed lots, indicative of the hand-tomouth policy which purchasers had pursued throughout the year. Maple and elm sold quite freely early in the season, the latter for bicycle purposes.

The shingle trade was not active early in the year, but during the fall there sprung up a demand which pretty well cleared out stocks and placed the industry on a stronger footing.

The absence of transactions in timber limits was a feature of the year. No sales of any importance were negotiated. The sale in Toronto in July of 110 square miles, to close up the partnership existing between Messrs. Beck, Mc-Sherry and Spohn, proved almost a total failure. The Ontario government placed upon the market 60,000,000 feet of burnt timber in the Nipissing district, and received satisfactory returns.

The cut of the mills in the Ottawa valley compares favorably with the previous season, being, perhaps, a few million feet less. The production in 1895 was 627,000 feet, while the estimate given below for 1896, although not including one or two of the smaller mills taken into account in

the 1895 calculation, places the cut at 614,250,ooo feet.

PRODUCTION OF THE OTTAWA VALLEY IN 1896.

	ret
J. R. Booth Ottawa	115,000,000
Hull Lumber Co	55,000,000
McLachlin Bros., Amprior	54,000,000
Bronsons & Weston Co., Ottawa	52,000,000
Hawkesbufy Lumber Co	52,000,000
W. C. Edwards & Co., Rockland	43,000,000
St. Anthony Lumber Co., Whitney	40,000,000
Gillies Bross, Braeside	35,000,000
Gilmour & Hughson, Hull .	30,000,000
Shepherd & Morse Co., New Edin-	•
burgh	25,000,000
Canada Lumber Co., Carleton Place	20,000,000
R. & W. Conroy, Deschenes Mills	10,000,000
Wm. Mason & Son, Ottawa	15,000,000
Pembroke Lumber Co	12,000,000
Ottawa Lumber Co., Calumet	12,000,000
Ross Bros., Buckingham	11,000,000
McLaren Estate, Buckingham	10,000,000
R. H. Klock & Co., Aylmer	h,000,000
J. R. & J. Gillies, Amprior	3,500,000
A. Hagar & Co., Plantaganet.	3,250,000
A. & P. White, Pembroke	2,500,000
Total	614,250,000

The export of forest products from the consular district of Ottawa to the United States, as furnished by the United States Consulate General, shows a difference in favor of 1895 of \$289.361.53. The detailed figures are as follows:

EXPORTS FROM OTTAWA CONSULAR DISTRICT FOR YEAR ENDING DECEMBER 31, 1895.

ARTICLE.	Or ending March 31.	Or ending June 30.	Qr ending Sept. 30. \$ -6,548.00 !	Or ending Dec. 31.
Bark	• • • • • • • • • • • • • • • • • • • •	28,102 20		
	0.477-70		24,908.55	23,027 84
Logs and Tumber		159.95	1,587 26	1,717.25
Lumber	351,751 30	586,114.47	625,746.15	597,903 04
" in bond for exp t	3,585 69	17,232 95	35,341 07	47,046.93
Match Blocks	1,420 20			
Pulp, Salphite	17,570.57	18,239 49	14,478 94	19,309 10
Pickets	*	3,650.73	3,406.74	6,254 64
Railroad Ties	450 00	5,950.10	3,307.30	4,8,8.40
Total	\$381,245.46	\$550,48, 88	\$715 303.99	\$704,312.50

EXPORTS FROM OTTAWA CONSULAR DISTRICT FOR YEAR ENDING DECEMBER 31, 1896.

ARTICLE.	Or ending March 31.	Or ending June 30.	Or ending Sept. 30.	Or ending Dec. 31.
Bark .	\$ 1,704 00	\$	\$	\$
Lath	3,572.20	27,497.94	27.415.38	22,283,65
Lumber	297.365 15	653,803 82	514,979.02	505,229 4 1
Palp, Sulphite	16,078 95	12,717.28	8,039.53	3.763.12
Cordwood	10.03			14 75
Shingles	2,100.05	6,651.14	0.957 45	15,178.25
Railroad Tie	0,591.81	5,460.84	£38.20	(6,6 05
Logs	129,00			•
Timber	425 87	1,960.50	5,243.8>	154.32
Pickets	5,301.00	749 90	954.74	
Curtain Sticks	,	3,583.73	3,704.92	
Match Blocks		2,729.25	731.25	(00.00
Posts and Poles		93.00	., ,	໌ ເວ.ຕວ
Pulpwood		357-50	297.00	•
•				

Total..... \$333,349.02 \$720,228.95 \$569,223 34 \$548,491.52 Total, 1805..... \$2,460,352.23 Total, 1896 \$2,170,990.80

The total output of saw logs in the Ottawa valley during the season of 1895-96 was 480,-000,000 feet, b. m., and the estimated cut this winter is 375,000,000 feet, or 22 per cent. less than last year. In other sections of the province the production is being curtailed to a greater extent, and probably not more than half the usual quantity of logs will be taken out. With a fair demand a more prosperous season is therefore looked for, although tariff changes may affect the market to some extent.

QUEBEC.

The trade of the province of Quebec has depended almost entirely upon the markets of the United Kingdom, which have remained firm for nearly every class of Canadian goods. The shipments of pine and spruce deals have been made largely from the port of Montreal, and were slightly less than in the previous year, but prices advanced early in the season, and business was conducted on a more remunerative basis than in 1895. From the United States the principal demand was for spruce wood for the manufacture of pulp.

The following table will show the quantity of

lumber in St. Petersburg standards shipped by several firms from Montreal to the United Kingdom:

		Pig. sids.
Dobell, Beckett & Co		27,490
W. & J. Sharples		. 22,134
Robt. Cox & Co		. 13,123
Watson & Todd		. 12,821
J. Burstall & Co		. 12,260
McArthur Bros. & Co		. 9,551
A. Lemay		
•	Total	102,095

The square timber trade, which must naturally be considered in a review of Quebec operations, has been characterized by a healthy demand, and light stocks are held at British ports in nearly every class except birch. The production of this wood last winter was too great for the demand, and consequently prices have dropped about 3 cents per cubic foot. Contracts for a large portion of the 1896-97 production of square and waney timber have been closed, and the opinion is quite general that no abatement in consumption in Great Britain will take place until after the first six months of the year at least.

A comparative statement for three years of the timber measured and culled by the Supervisor of Cullers at Quebec is as follows:

~	1894. Cubic Ft.	B95. Cubic Ft.	1806
	Cubic Ft.	Cubic Ft.	Cubic Ft.
Waney white pine	2,267,749	3,086,469	2,870,879
White pine	838,168	273,771	316,093
Red pine	59,053	108,601	50,609
Oak	1,256,890	1,006,139	1,139,155
Elm	528,761	596,137	416,625
Ash	183,626	149,077	83,749
Basswood		659	728
Butternut	276	642	327
Tamarac		554	138
Birch and maple	133,658	240,818	252,424
	0.0		

We are indebted to the annual circular of J. Bell Forsyth, of Quebec, for the following data

bearing on the Quebec trade:

The past season has shown a marked improvement in business with the United Kingdom, both in volume and satisfactory results, fully justifying our last year's prediction of brighter times ahead with a probability of some good years of business prosperity. In the United States, the uncertainty that preceded the Presidential election delayed for a time the business improvement, which has since set in with marked benefit to the sawn lumber trade.

Shipbuilding in the United Kingdom is in a flourishing condition, all the yards being very busy with orders for home and foreign account.

Instead of a fast line of twenty knot steamers with Quebec as a summer terminus, there seems some possibility of slower boats being subsidized for Montreal business with Quebec as a port of call only, unless a more active interest is taken by Quebec citizens in this important matter.

Delegates from the shiplaborers met representative shipping merchants, early in the spring, and conceded the use of steam in loading and discharging steamer cargoes, with distinctly beneficial results to the business of the port.

Low water in the St. Lawrence during part of the season has again occasioned inconvenience to Montreal shipping, as large steamers for a time were unable to complete cargo at that port, and

had to finish loading here.
WHITE PINE.—Without any great change in the supply as compared with last year, the increased shipments of past season have reduced the stock to much the lowest quantity on record. The estimated production, though probably sufficient for present reduced business, is by no means excessive for anticipated market requirements. The wintering stock, with trifling exception., is in the hands of the shipping merchants, who have also bought on contract a considerable portion of the present winter's

11/411010101010101	Supply.	Export.	Stock.
1896 { Square Waney	316,093 }	4,251,800	537,013 Square.
	2,870,879	4,251,000	[1,474,168 Waney.
1895 Square	273,771	2,838,080	1,090,892 Square.
1095 1 Waney	2.085.360	2,030,000	l 2.254.717 Waney.

RED PINE.—The stock is very small and manufacture has almost ceased. The price obtainable for this wood in markets of the United Kingdom has of late years been quite inadequate.

1896	Supply, 50,600	 Export 139,160	 Stock. 82,069
1895	108,661	 326,080	 154,120

OAK.—An active demand in the United Kingdom has stimulated the export, and reduced stock under last year. The quantity wintering above Quebec is unusually small, being only 15,000 feet, as against 300,000 feet at Garden Island and Collin's Bay last winter.

_	Supply.	•	Export.	Stock
1896	1,145,564	• • • •	1,382,880	
1805	1,006,139		869,560	 790,486

ELM .- The present strong demand, with active shipbuilding, will no doubt continue. The wintering stock is very small; the production will be moderate, as suitable standing timber is difficult to secure, and the end of next season may see an absolute scarcity.

```
Supply.
                                        Export.
                                       501,000 .... 78,374
537,120 .... 218,871
1896....
               596,137
```

Asu. - The stock is much reduced, but ordinary wood is not in demand unless at very low prices. Large average ash of fine quality and color will, no doubt, be required as usual to a limited extent.

Supply. 83,749 149,077 Export 113,680 42,694 146,360 118,127 1896.... 1895....

BIRCH.—The markets of the United Kingdom have been oversupplied with cheap wood, sawn and in the log, from the Maritime Provinces, and by heavy shipments of western birch from Montreal. As consumption is good, price is only kept down by excessive production being forced on the markets.

251,430 240,818 319,200 ... 5,156 1895....

STAVES .- Quebec has lost the stave trade, which is now done through United States ports.

PINE DEALS.—Though the business remains largely in the hands of Quebec houses, who control it, shipments are principally made from Montreal, and to some extent from Three Rivers and other shipping points above Quebec. This will continue until Quebec people take the necessary steps to complete the contemplated rail connection with the west, through the Canada Atlantic and Parry Sound roads. If something is not promptly done in this connection, any action will coon be too late. The cuttings for next season are now all placed at last year's prices, or in some cases at an advance.

	Supply.	Export.		Stock.
1896	657,264	 400,343	• • • •	142,410
1895	823,665	 501,200		135,489

SPRUCE DEALS. - The marked advance in prices here, which last year we spoke of as certain to come, has taken place. From the strong tone of markets at chief centres of consumption, and from figures obtained for Baltic goods for next year's delivery, still higher figures at no distant date seem almost certain.

The steadily increasing demand for spruce for pulp wood, for which i is unquestionably specially suitable, continue to advance the value of spruce limits.

Supply. Export. Stock. 1896... 3,915,455 ... 3 828,258 ... 573,413 1895... 3,878,142 ... 3,471,700 ... 736,216 Supply.

SAWN LUMBER.—South American lumber has continued in fairly good demand and business has been active in that wood. Shipments have amounted to about the same as last year, principally from the Maritime Provinces, the Saguenay and the Lower St. Lawrence ports. No appreciable advance over last year's prices has taken place up to the present, but a consider-

able improvement is looked for next season.

FREIGHTS.—Sail opened at Clyde seventeen shillings, Liverpool nineteen shillings, for timber cargoes, and showed no improvement as season advanced. By steam season opened at forty shillings to forty-two shillings and six pence, Montreal to leading ports in United Kingdom, and advanced towards close of season to fifty shillings, and even higher figures paid for small quantities. For timber carrying steamers sixty-

five shillings were paid early in season for Q_t loading. Rate for Clyde fell to sixty shilling summer, but advanced again in fall to ser shillings and even higher rates.

STATEMENT SHOWING THE QUANTITY AND VAR WOOD ENPORTED FROM THE PORTS OF MON THREE RIVERS, BATISCAN AND SORBL, FROM MA то November 30ти, 1896.

PORTS.	ARTICLE	QUANTITY.
	Pire Deals Spruce Deals Deal Ends Planks, Boards, Etc Other Headings, Square Timber	57,648 Std. 11. 6,008 " 5,701 " 32,631 M. ft.
	Pine Deals Spruce Deals . Deal Ends . Planks, Boards, Etc. Spruce Pulp-Wood	Fotal value. 5,8,9 Std H. 6,189 " 369 " 21,097 M. ft.
Sorel .	Pine Deals Spruce Deals Planks, Boards, Etc.	Total value 1,774 Std H. 3,636 4,134 M. ft
		Total value.

For the year ending November 30th, 1896, ther brought to the port of Quebec by the Quebec an St. John Railway, 2,925 cars of deals and lumb cars of pulp, 402 cars of ties, and 2,214 cars of col

MARITIME PROVINCES.

The European and South American n were the salvation of the lumber trade maritime provinces in 1896, the depression United States causing shipments to that to decrease materially. To South Amer shipments totalled over twelve million Eleven ports in New Brunswick ship across the Atlantic, and the statistics for t show that the total exports were 366, superficial feet, an increase of about 95, feet over the exports of the previous yer John shows an increase of 40,000,000 fe Miramichi of 24,000,000 feet. Only I and Shediac are responsible for a fallin shipments, while some of the ports have their record. Manufacturers of spruce of port a satisfactory season's trade, bette being realized throughout the season hardwood as was taken out also met wi sale. The condition of the shingle tra less encouraging, depending, as it does the local and United States markets. ruled low, and it was difficult to dispose The shipments of deals from Nova Sci show an increase of 13,791,976 feet previous year.

The annual circular of Hon. J. B. Sno Chatham, N. B., furnishes the following ing statistics of exports from the variou

The present winter has been so far fa and the prospects are that the outpu will b. an average one for the force e which is not larger than last year.

There are two pulp mills in operation use about fifteen million superficial feet logs annually in the manufacture of sulp

The goverment of New Brunswick 4,536,320 acres of timber lands unde against 2,780,800 acres in 1892. In michi section nearly everything avai been taken up, and lands so poorly we they would not be looked at a few year: now eagerly sought for. Fifteen year brought to market were not consider quality if it took over eight pieces thousand superficial feet of deals, etc. teen pieces to the thousand superfic considered fair stock. This, taken w duction in our export referred to elsev per cent., looks as if our forests were or I consider the above remarks applicab New Brunswick and Nova Scotia, present prices do not bring an adequ for the forests depleted.

The stock of merchantable spruce de ing here is 6,000 St. Petersburg stands

5,650 standards last year. The stock at present in at St. John is estimated to be 20,000 standards. The export of wood goods to France under the yew tariff has hardly come up to expectations. There was shipped from this province this year W.o France and French Algerian ports 15 cargoes, Milontaining 12,398,000 superficial feet, against 16 torgoes last year, containing 10,240,000 sup. ft.

The general depression in business in the valunited States last year about stopped shipments to that country, and put a large extra quantity, on the British market. As there are signs of ousiness confidence being restored there, we may expect a renewal of shipments, particularly from St. John and Nova Scotia ports, to the relief of other markets.

5.5HIPMENTS FROM MIRAMICHI FOR 12 YEARS, FROM 1885

TO 1896, INCLUSIVE.

Sup Feet.
1893—83 millions.
1886—72 " 1890—88 " 1894—96 " 1891—72 " 1805—82 " 1898—73 " 1892—75 " 1890—106 "

1885-73 " 1892-75 " 1896-106 "

The average shipment for the above 12 years is 86 million superficial feet per year. The average shipment for the 12 preceding years, viz., from 1873 to 1884 inclusive 1 was 118 million superficial feet, an average falling off of 27% in the volume of our business. As we have not any here new country to draw on for supplies, this decreased export and will have to continue. From St. John previous to 1884 mbe the average shipment was 190,000,000 superficial feet, and continue 1884 it has fallen to an average of 146,000,000 sup. ft.

SHIPPERS FROM THE PORT OF MIRAMICHI, SEASON 1896.

Shippers	No.	Tens	Sup ft. Dealt, Scantling, Ends and Boards	Palings Pcs.
I m.J. B. Snowb'll	12	34,273		1,339,555
de eW. M. McKny	21	27,609		18,000
T 100 100 100 100 100 100 100 100 100 10				
ion D. & J. Ritchie	21	12,893	12,547,058	108,400
it coErnest Hutchison	12	12,420	12,861,020	12,000
. R. P. Neste	. 15	11,183	11,000,398	
""Geo. Burchill & Sons	s 8	6,827	7,517,000	17,000
lion Clark, Skillings & Co	1 2	2,111		•
ip [J. W. & J. Anderson.	1	802		
or the 8 Shippers	133	108,118	106,147,420	1,494,955
Z D. 1111 . 1 112 1	40 40.5			

16,0; Spool Wood—W. M. McKay, 404,078 sup. ft.; Clark, 15,00 Skillings & Co., 1,574,597 ft.; J. W. & J. Anderson, year.

DISTRIBUTION	OF A	Itramic	HI SHIPMENT	S.
) feet			Sup ft. Deals,	
· Ba	No.		Scantling, Ends	Palings
	Versels	. Tons.	and Boards.	Pess
ling Great Britain	. 65	60,032	59,780,812	1,355,755
ve di Ireland	. 51	35,803	34,886,631	139,200
tter Africa	. 10	6,756	6,645,000	
Spain	. 4	2,419		
Africa	. 2	1,597	1,570,692	
ion. Australia	. 1	1,511	1,126,603	
with Totals	.133	08.118	106.147.420	1.401.055

Totals......133 108,118 106,147,420 1,494,955 trade Great Britain, 2,447,067 sup. ft. spool wood.

does, In addition to above there were shipped to Buenos ts, 'Ayres by J. B. Snowball three cargoes, containing 1,445-se of soos superficial feet of deals, boards, etc.

SCOURST. JOHN, N. B., SHIPMENTS OF DEALS, &c., TO TRANS-IL OI: ATLANTIC PORTS, DEC. 1st, 1895, to DEC. 1st, 1896.

	Sup. ft. Deals,	Tir	nber.	
Shippers.	&c.	Pine.	Birch.	
now! Alex. Gibson.	61,360,952		2,104	
norie W. M. McKa		128	6,632	
. • George mere	an 4,342,742		-	
Watson & To	dd 5,749,483			
fave: Jarvis Wilson.			1,156	
put e Total	167,246,442	128	9,892	

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ia, an quate deals.

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1895, TO DEC. 18T, 1896. Sup ft. Deals, on he: et of alphite k nor 500

emi Distribution of St. John, N. B. Shipments, Dec. 181,

der L 7,860 In the 1,156 vailab'. woods ars siz

Total......167,246,442 128 9,892 ars at Shipment from St. John to Trans-Atlantic Ports dered:

FO	R THE PAST 12 Y	EARS.	
	Total	Timber	r (tons)
_ ,	Sup. ft. Deals, &c.	Birch.	Pine.
1885	152,543,026	13,769	3,686
1886	138,934,392	7,354	4,313
1887	118,450,590	5,197	1,587
1888	153,184,187	4,721	457
1889	180,167,488	7,221	487
1890	132,608,516	1,311	4,317
1891	122,242,682	5,004	
1892	146,529,309	10,200	
1893	156,653,334	5,294	
1894	153,473,076	5,015	
1895	126,449,707	8,374	324
1896	167,246,442	9,892	128

TOTAL TRANS-ATLANTIC SHIPMENTS OF NEW BRUNSWICK 1895 COMPARED WITH 1896.

	186	96		
Pors Miramichi	No. Vessels. 133	Tons. 108,118	Sup. ft. Deals, &c. 100,147,420	Timber
St. John	****	7,518	167,246,442	10,020
Richibucto	26	11,374	11,191,062	
bellton	. to	41,631	36,600,980	195
Shediae	23	11,545	11,054,978	
Sackville		19,843	19,996,978	
Outports of Hillsbord Moncton Harvey	' 22 22	20,246	25,614,039	
Totals			386,039,977	10,215

Totals			386,039,977	10,215
	18	95		
Ports Miramichi	No. Vessels 116	Tons, 89,771	Sup. ft. Deals, &c. 82,457,575	Timber.
St. John		149,226	126,449,707	8,698
Bathurst		8,987	8,817,000	20
Richibucto	9	4,561	4,420,210	
Dalhousie and Cam	p•			
beilton		30,264	25,56	164
Shediac	23	11,456	11,250,-09	
Sackville	19	9,009	9,083,501	
Outports of Harvey Alma	ro } 22	22,532	23,336,282	434
Totals	300	325.800	201.182.574	0.316

The trans-Atlantic shipments from the Province of New Brunswick for the past ten years were:

Sup. feet.	Sup. feet.		
1887—250 millions	1802325 millions		
1888277	1893312 "		
1889- 369 "	1894-326 "		
1890-293	1895291 "		
1801253 "	1806 - 186 **		

SAIPMENTS FROM NOVA SCOTIA, 1806.

	No.		Con & Dark	
Ports	Venela	Ton.	Sup ft. Deals	Timber.
Outports of Amberst		23,048	19,827,000	
Halifax	47	39,634	41,755,060	650
Ship Harbour	ι	424	404,447	
Sheet Harbour	8	6,245	6,276,707	
St. Margaret's Bay	2	2,678	2,790,966	
Parrsboro	33	42,935	43,315,254	
Pictou	10	7,889	4,946,000	3,658
Sherbrook	_4_	3,766	3,800,955	- •
Totals	137	126,619	123, 116, 380	1,308

The shipments of deals from Nova Scotia to trans-Atlantic ports for the past ten years were:

Sup. lect.	Sup. feet.
1887 82,959,589 1892	87,861,398
1888 85,070,005 1893	3 109,252,930
1889 92,605,488 1894	106,327,250
1890 99,512,924 189r	109,324,393
1891 78,603,742 189.	123,116,389

BRITISH COLUMBIA.

The excellent quality of the British Columbia timber is becoming more widely known each year, which accounts for the substantial increase made in 1896 in exports of lumber to foreign countries. The following table, although not quite complete with regard to the quantity and value of cargoes, will serve to show the scope of distribution:

BRITISH COLUMBIA LUMBER FLEET, 1896.

Name.	From	For	Cargo Ft.	Value.
Crown Prince	Vancouver	Volgaster, Ger Iquique	776,772	131.121
Hindostan	Vancouver	. Iquique	1,200,000	0,000
Nineven	Moodyville	Sydney	827,500	7.8 0
Prince Regent	Vancouver	Liver, ool.	957,890	9,079
Clan Buchanan	Vancou er	Delagoa Bay	1,591,996	12, 10
Mooltan	Vancouver	Adelaide	1,310 326	1 1567
John Gambles	Vanccuver.	Fremantie		6,757
Mirkoale	var.couver	Fremantle	1,519,467	9,417
Cananal Cautan	Manda illa	Valparaiso, f o Sydney	943.0 5	9, 05
Drings Albert	Vancouver	Plymouth, Eng	1,205,264	10,120
I D Bieboff	Vancouver	London	1,190,000	13,790
F K Wast	Moodenille	Tientsin	1,216,255	17,807
Felipse	Moodeville	Shanghai		5,730
King Come	Moodpuille	Shanahai	1,072,007	8,576
lake Leman	Moodyville.	Shanghai	86 4582	7 .82
Aid3	. Moodville	Shanohai	767,819	6,664
Puritan	Moodyville	Shanghai	68 ,241	5.932
W. H. Talbot	. Westmi, ster	Shanghai Shanghai	738,841	7,718
Siokongen	. Vancouver	Algoa Bay. Buenos Ayres.	972,050	7,187
Glenbank	Moodyville	Buenos Avres	040,759	7,124
Inch Keith	Vancouver	. Iquiqui	(50,992	7,314
Forest Queen	Vancouver	San Francisca	541,002	10,945
Queen City	Westminster	Kobe	3441.02	5,521
Rosalie	Vancouver	Kobe Sydney	469,972	4,254
volutiteer	. Chemamus	Lichtsin	709,284	8,474
Tanner	. Vancouver	Oakland	320,040	2,050
Chas. F. Crocker	. Moodyville	.Shanghai	0.45 200	7.782
Nonantum	. Vanccuver	Melbourne	714,783	5.5 7
Empire	Moodyville,	.Sydney	700.051	5,819
Philadelphia	Vancouver	Algon Ray		3,009
Orient	Vancouver	London	1,268,000	14,397
Orient Eureka	Vancouver	San Francisco	288,937	2,013
Antonietta	Moodyville	Valparaiso, f. o	820,302	6,965
Hesper	Chemainus	Tientsin	804,748	8,003
Antonietta Hesper Carrier Dove	Chemainus	Shanghai	89 ,064	8,189
Guardian	vesavius Bay	Santa Rosalia	•••••	

Lauta May	Name.	From	For	Cargo Lr	Value.
Arramote C. F. Sargent John Smith Deslemona Deslemona Vatoouver Addenda Chemanus Maple Ray Melove Maple Ray Melove Mostlyvalle Guickstep Jane L. Stanford Chemanus E. K. Wood Chemanus E. K. Wood Chemanus Mostlyvalle Chemanus E. K. Wood Chemanus E. K. Wood Chemanus Chemanus Chemanus E. K. Wood Chemanus Chemanu	Laura May	Vancouver	Nan Francisco	2210.432	2.011
C. F. Sargent Victoria John Smith Chem unus Shanghai (%), 1907 (%), 2007 (%)	Arranmore		Sidney		
John Smith Chem amus Sanghal Ostario Society Addenda Chemannis Lentsin Lentsin Lotto Lot			and the first		
Addenda Chemanus Irusism (17,14) Agen Melose Maple Ray Maple Ray Melose Washish Islands (17,14) Agen Melose Benj Sewell Mosslyyt le Shanghat (17,14) Agen Mosslyyt le Itentsin (17,14) Agen Mosslyyt le Adelaide (17,14) Agen Agen Agen Agen Agen Agen Agen Agen		Chem unus	Shanghal		
Addenda Chemanus Irentsm Melbose Maple Blay Santa Rosalia 157,140 18-86 Ben Sewell Mosslys Ils Shanghan 1,245,176 18-86 Quickstep Mosslys Ils Shanghan 1,245,176 18-86 En Chenainus Shanghan 1,245,171 19,776 E. K. Wood Chemanus Shanghan 1,245,171 19,776 E. K. Wood Mosslys Ills Irentsm 64,1847 6, 19 Chehalis Mosslys Ills Shanghan 1,245,171 19,776 E. K. Wood Mosslys Ills Irentsm 64,1847 6, 19 Chenainus Shanghan 1,245,171 19,776 Elisa Chemanus Taku 1,255,177 10,770 Elisa Chemanus Taku 2,257 10,770 India Mosslys Ills Shanghan 1,257,177 10,770 India Mosslys Ills Shanghan 1,257,27 10,770 India Mosslys Ills Shanghan 1,257,270 India Mosslys Ills Shanghan 1,257,27 10,770 India Mosslys Ills Shanghan 1,257,270 India Mossly Il	Desdemona		Valparates, f. c.		
Melose Benj Sewell Moslyxt le Shanghat 159,140 1,280 Quickstep Moslyxt le Shanghat 1596,170 8,885 Jane L. Stanford Chemanus Shanghat 1596,170 4,550 Jane L. Stanford Chemanus Shanghat 179,140 9,285 Chehalis Westjyrille Irentsun 154,847 6, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,					
Ren Sewell Mosslyville Liensian 455,136 8,856 Quickstep Liensian 455,159 4,559 Jane L. Stanford Chemanus Shanghai 1,141,113 9,713 E. K. Wood Mosslyville Liensian 64,847 6, 5 King Cyrus Chemanus Laku 7,74,40 9,285 King Cyrus Chemanus Laku 2,54,47 10,500 Eliva Chemanus Laku 2,54,47 10,500 Kring Cyrus Chemanus Laku 2,54,47 10,500 Lilia Corolla Mosslyville Freemantle 97,834 India Mosslyville Lilia 1,75,44 India Lilia Lilia Lilia 1,75,44 Lilia Lilia Lilia 1,75,500 Rechley Vancouve Lipique Lilia 1,75,500 Rechley Vancouve Lilia Lilia 1,75,500 Lilia Lilia Lili			Santa Rocalia		
Quickstep Jane L. Stanford E. K. Wood Chemanius Shanghai 1,144,131 9,731 grap L. Stanford E. K. Wood Chemanius Shanghai 1,144,131 9,731 grap L. Stanford E. K. Wood Mosdyville Shanghai 770,30 9,28 grap Mosdyville Chemanius Taku 1,200 9,28 grap Mosdyville Shanghai 770,30 9,28 grap Mosdyville Chemanius Taku 1,200 9,28 grap Mosdyville Chemanius Taku 1,200 9,28 grap Mosdyville Presentante 1,200 9,24 grap Mosdyville Presentante 1,200 9,24 grap Mosdyville Post Price 1,200 9,26 grap Mosdyville Mosdyville Post Price 1,200 9,26 grap Mosdyville Greenock Mosdyville Greenock Mosdyville Greenock Mosdyville Wondower Walparaiso, 6 grap 5,999 Ariel Mosdyville Wondower Walparaiso, 6 grap 5,999 Ariel Mosdyville Wondower Walparaiso, 6 grap 9,687 Mosdyville Wondower Walparaiso, 6 grap 9,687 Mosdyville Mosd			Shanghar		
James L. Stanford Chemanus Shanghat L. (44,113 9,714 Chehalis Mesdyalle Lientsun Stanghat 770,400 9,824 Chemanus Taku 770,400 9,824 Chemanus Chemanus Melbourne 775,547 7,944 Chemanus C					
Chehalis King Cyrus Chemanus Taku 170-10 9-25 Chemanus Elisa Chemanus Taku 170-10 9-25 Chemanus Chemanus Taku 170-10 9-25 Chemanus Wrestler Westminster Melbourne 170-547 1144 Maple Bay Santa Rosalia 160-26 7-134 Maple Bay Santa Rosal	Jane L. Stanford				
Chehalis King Cyrus Chemainus Chemai			l tentsm	651,847	6, 0
Elisa Chemanus Antofagasta (20,107) 8, 287 (2010) 14, 2010 14, 201			Shangh d		9.08.
Westler. Westminster Melbourne (79,847) Corolla Moody tille Freemantle (97,852) India Mex. McNeill Jesie Osborne Magallanes Chemainus Geraldton (16,000) Bohta Moody tille Port Pirie (79,550) Beckley Vancouve Ratie Fleking r Vancouver Gibraltar (79,000) Reckley Vancouver Gibraltar (79,000) Friol Moody tille Adelaide (17,000) Friol Moody tille Adelaide (17,000) Friol Moody tille Adelaide (17,000) Friol Moody tille Moody tille (17,000) Friol Moody tille (1			taku	2 25.27	10.000
Corolla Moody afte Freemantle 17,7 % a 17,134 18,141 19,141 17,134 18,141 19,141 1	Elisi				8, ***
Alex. M. Neill Maple Blay Santa Rosalia 16,000 7,000 Jessie Osborne Chemainus Geraldton 810,240 7,000 Magallanes Vancouver Iquique 16,000 Guinevere Chemainus Valharales 74,000 Bohria Moodyville Port Piric 70,500 Beechley Vancouver Buenes Aytes 1,000 17,001 Katie Fleking Vancouver Kobe 00,007 City of Adelaide Westminster Melbourne 60,000 Prince Victor Vancouver Gibraltar 725,000 Anericana Vancouver Gibraltar 725,000 Errol Moodyville Adelaide 1,1300 10,000 Kowusko Chemainus Adelaide 605,054 6,842 Marie Berg Vancouver Granton, U. K. 95,000 5,494 Colorado Chemainus Melbourne 841,854 7,337 Senator Vancouver London 1,000 10,000 He enslea Vancouver Delagoa Bay 511,327 Clairmont Vancouver Delagoa Bay 511,327 Trowbridge Moodyville Vancouver Vancouver Vancouver Role 1,1300 10,230 Clairmont Vancouver Delagoa Bay 982,702 9,687 Ariadhe Vancouver Valparaiso 60 F. S. Redlield Vancouver Valparaiso 60 F. S. Redlield Vancouver Valparaiso 60 City of Delhi Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moodyville Adelaide		Westminster		777547	
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Joseph	India	Vanceuver	Valparatos	7-17. 1. 1	7.1 34
Magallanes Outmer Iquique Guinevere Chemainus Volpanako 75 (2008) Bohata Moodyville Port Prie 707,500 Beechley Vancouver Buens Agres (2007) City of Adelaide Westminster Wellburne (2007) Prince Victor Vancouver Gibraltar (2008) Frol Moodyville Adelaide (12000) Frol Moodyville Adelaide (12000) Frol Westminster Gibraltar (2000) Frol Moodyville Adelaide (12000) Frol Moodyville (1200) Frol Westminster Gibraltar (2000) Frol Moodyville (1200) Frol Frol Moodyville (1200) Frol Frol Moodyville (1200) Frol Frol Frol Moodyville (1200) Frol Frol Frol Frol Moodyville (1200) Frol Frol Frol Frol Frol Frol Frol Frol			Santa Rosalia	11-6,00-0	
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Rechtey Vancouver Rubbs Afres (1974) 17021 City of Adelaide Westminster Melbourne (1975) 17021 Prince Victor Vancouver Gibraltar (1975) 17450 (1864) Americana Vancouver Gibraltar (1975) 17450 (1865) 1	Magallanes .	Vancouver	. Iquique		•
Rechtey Vancouver Rubbs Afres (1974) 17021 City of Adelaide Westminster Melbourne (1975) 17021 Prince Victor Vancouver Gibraltar (1975) 17450 (1864) Americana Vancouver Gibraltar (1975) 17450 (1865) 1	Guinevere	. Chemainus	Valparates	74 6000	6,068
Rechtey Vancouver Rubbs Afres (1974) 17021 City of Adelaide Westminster Melbourne (1975) 17021 Prince Victor Vancouver Gibraltar (1975) 17450 (1864) Americana Vancouver Gibraltar (1975) 17450 (1865) 1	Bolaja	. Moodyville .	Port Parie	707.500	
Aniericana Vancouver Gibraltar 1,015,005 1,450				· · 1,9/1,7/1	17,021
Aniericana Vancouver Gibraltar 1,015,005 1,450	Katie Flicking r	. Vancouver	Kobe	504,627	
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Aniericana Vancouver Gibraltar 1,015,005 1,450	Prince Victor	Vancouver	Gibraltar	752,000	5,86%
Marie Berg	Americana	Vancouver	Gibraltar	1,015,000	13,450
Marie Berg	Errol	Moodyville	Adelaide	0.00414	10,000
Colorado	Kosciusko	. Chemainus	Adelaide	645,954	6,842
Colorado	Marie Berg	Vancouver	Granton, U. K.	363,000	5.494
Seriator . Vincouver London (1,00),000 (1,350) He enslea Vancouver Depe, France 1,01,000 (1,350) Hindostan Vancouver Delagoa Bay 511,327 Trowlridge Mosdyville Greenock	Colorado	. Chemainus,	Melliourne	841,545	7. 117
Ariel Moodyville Valparaio 69,685 F. S. Redfield Vancouver Kobe Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaio, f. o City of Delhi Vancouver Valparaio, f. o Wythop Vancouver Delagoa Bay Khorasan Vancouver Delagoa Bay Speke Moodyville Sydney Blairlogie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moodyvil Adelaide			London	1,000	13,500
Ariel Moodyville Valparaio 69,685 F. S. Redfield Vancouver Kobe Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaio, f. o City of Delhi Vancouver Valparaio, f. o Wythop Vancouver Delagoa Bay Khorasan Vancouver Delagoa Bay Speke Moodyville Sydney Blairlogie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moodyvil Adelaide	He enslea	, Varcouver	Dieppe, France	. Loty,000	16,235
Ariel Moodyville Valparaio 69,685 F. S. Redfield Vancouver Kobe Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaio, f. o City of Delhi Vancouver Valparaio, f. o Wythop Vancouver Delagoa Bay Khorasan Vancouver Delagoa Bay Speke Moodyville Sydney Blairlogie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moodyvil Adelaide	Clairmont	. Vancouver	Delagoa Bay	511,327	
Ariel Moodyville Valparaio 69,685 F. S. Redfield Vancouver Kobe Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaio, f. o City of Delhi Vancouver Valparaio, f. o Wythop Vancouver Delagoa Bay Khorasan Vancouver Delagoa Bay Speke Moodyville Sydney Blairlogie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moodyvil Adelaide	Hindostan	. Vancou er	Iquique	- 1,415,546	11,935
Ariel Moodyville Valparaio 69,685 F. S. Redfield Vancouver Kobe Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaio, f. o City of Delhi Vancouver Valparaio, f. o Wythop Vancouver Delagoa Bay Khorasan Vancouver Delagoa Bay Speke Moodyville Sydney Blairlogie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moodyvil Adelaide	Trowbridge	. Moodyyille	. Greenock .		
F. S. Redfield Vancouver Kobe Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaiso, f. o City of Delhi Vancouver Valparaiso, f. o Wythop Vancouver Dagoa Bay Khorasan Vancouver Guayquil Speke. Moodyville Sydney Blairlogie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moosyvile Adelaide	municer	, Chemainus .	. Ercontance	. 107, 107	5,000
Port Adelaide Vancouver Delagoa Bay 982,762 9,687 Ariadne Vancouver Valparaiso, f. o City of Delhi Vancouver Valparaiso, f. o Wythop Vancouver D tagoa Bay Khorasan Vancouver Guayquil Speke Moodyville Sydney Blairlegie Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moosyvile Adelaide	Ariel				
City of Delhi Vancouver Valparaiso, f. o. Wythop Vancouver Dagoa Bay Khorasan Vancouver Guayquil Speke. Moodyville Sydney Blairlogie. Vancouver South Africa Lyderhorn Chemainus Sydney Verbena Moosyvi le Adelaide	F. S. Redheld	, Vancouver	. Nobe .	* ** 1* *.	
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Addenda	Lyderhorn .	Chemainus	. Sydney		• • • • •
Addenda Chemainus Hentsin	verbena	Moonyville.	Adelaide		•••
	Addenda	Cnemainus.	Hentsin	* ****** *	

It will be observed that there has been a gain of 12 per cent. in the number of ships carrying lumber to foreign markets, while the total ton-nage has increased from 76,316 to 93,394. Of the 86 vessels, 39 loaded at Vancouver, 23 at Moodyville, 16 at Chemainus, 4 at New West-minster, 2 at Maple Bay, and one each at Vic-toria and Vacquing Rev. toria and Vesuvius Bay.

During the year there was also a good local demand, arising from the requirements for mining purposes. Some revival in the shingle trade took place, but unfortunately prices remained very low. Shipments to the eastern provinces kept up well throughout the season.

At the beginning of the year a gigantic lumber trust was organized to control the foreign trade, and to be known as the Central Lumber Co. It embraced nearly all the principal mills on the Pacific coast. The operations of the trust were successful early in the season, and prices were advanced to a remunerative basis. But towards the close of the year some of the members showed a disposition to withdraw from membership, and this finally culminated in the breaking up of the combine, with what result remains to be seen.

In 1897 a still greater foreign trade is looked for. Japan, Europe and South Africa are likely to be heavy purchasers. China is at present making tests of British Columbia timber for railway purposes, and efforts are being made to extend the Australian trade.

MANITOBA.

An average year was experienced by manufacturers in Manitoba and the Northwest Territories. The demand for lumber was principally from the farmers, who, encouraged by the higher prices received for grain, expended money more freely for improvements to buildings. Had the production of wheat been as great as the previous year, the season would have been one of unusual prosperity. A quantity of lumber was brought from British Columbia, but the main source of supply was the Lake of the Woods district, where the output of logs this winter is being greatly increased, in anticipation of a prosperous season in 1897.

HE LIKES IT.

MR. S. S. Stevens, Auburn, Nova Scotia, writes: "Enclosed please find \$1.00, subscription to the Canada Lumberman. I received the November number, which I liked very much.'

WOOD PULP ~9 ©~ DEPARTMENT

THE DUTY QUESTION.

Much attention continues to be given both in Canada and the United States to the question of a duty on pulp wood and the manufactures thereof. The paper manufacturers across the border are urging protection against the importation of both paper and pulp, and this is being opposed by the publishers. Before the Ways, and Means Committee at Washington Mr. John Marris, of the New York World, explained that as his paper consumed one-thirteenth of all the the paper used in the United States, or 110 tons on every mill day, he thought he voiced the sentiments of all newspapers. He continued:-"I appear to formally apprise this committee of the fact that the 24 or 25 manufacturers of white paper in the United States are perfecting their arrangements for a combination, and every newspaper shall be at the mercy of a central agency, by which these manufacturers shall receive an additional profit of four of five million a year, and tax knowledge to that extent." The manufacturers, Mr. Norris said, now had a protection of 10 per cent. ad valorem on pulp, and 15 per cent. on finished paper, and were sending their surplus paper to a foreign market, while as the ty on paper was prohibitory, none was imported. The purpose of the trust was to keep the price of paper at about 21/2 cts., while the present ruling price was about 2 cents, and by cutting off various concessions to newspaper publishers, increase their profits in that way also. The paper and pulp manufacturers had acquired a monopoly of the best water powers and tracts of cedar for pulp. The possible denudation of the forests might be a matter for Congressional action.

Ex-Senator Warner Miller, of New York, claimed that many of the paper mills were doing business at a loss, and few were making money. He did not believe that Congress would permit a paper to establish a mill on one side of the Sault Ste. Marie and bring pulp across from Canada free of duty. The manufacturers asked only for 15 per cent. on paper, and about \$2 per ton on wood pulp, a lower rate than free traders would favor on most commodities. Most of the money invested in paper mills was making less than 6 per cent. interest.

ANOTHER OPINION.

A writer in the Paper Mill takes exception to Mr. Norris' views in the following remarks: "I want to call attention to one point which would be dangerous if the Ways and Means Committee were to accept Mr. Norris' suggestions. In the course of his remarks, he asserted that if the duty on paper were taken off, Canada would, if necessary, supply the American market. Canada could not, under present conditions, supply the American market, or even sell a pound of paper in this country, even if the duty were removed. In the first place, all the mills in Canada which are manufacturing news to-day would make comparatively little impression on the American market. In the second place, Canadians are

even now complaining that American competition there recently has forced the price of news paper from 234 cents down to semething below 235 cents in the American market. If Canadian manufacturers are hurt by having the price established at something less than 2½ cents in Canada, how, in the name of all that's good, are they going to sell paper in America at two cents, or less, duty or no duty?

"Canada cannot supply the market to-day; but here is the point to be considered. Canada is contemplating placing an export duty on pulp wood of \$2 or \$3 a cord. If it should impose such a duty, and the American Congress should place news paper on the free list, modern paper mills would spring up on the Canadian water powers like mushrooms, and in a comparatively short time, the conditions being continued, Canada would be in a position to ruin our industry. With the present disposition on the part of the Canadians, any action on the part of our Congress towards taking off the duty would not be simply in the nature of removing an unnecessary protection; it would be in the nature of throwing down defences and inviting the enemy to come in. It would be strengthening Canada's own policy of protection at our expense. This, however is purely speculative, because happily no such danger exists, but it is a danger to which Pulitzer and Norris would lead us, if they could have their own way."

A CANADIAN'S VIEW.

Mr. E. B. Eddy, the large Hull manufacturer of paper, pulp, woodenware, etc., appeared before the Tariff Commission at Ottawa requesting a duty of \$4 per cord on pulp wood. He said that sixty-nine per cent. of the spruce used for paper in New York came from Canada. Canadian raw material in spruce logs and lumber was being exported from Canada. Canadian forests were being denuded to build up American villages.

At present about a million cords of wood were being exported to the United States, which was worth from \$3 to \$4 per cord.

Sir Richard Cartwright pointed out that the government returns showed only value for about a hundred and fifty thousand cords. Either the estimate given by Mr. Eddy was greatly exaggerated or the returns were greatly out.

Mr. Eddy replied that the returns were certainly not correct.

THE DEMAND FOR SPRUCE

TIMIER cutters in the Adirondacks and elsewhere in this country are now confronted with the unique condition that spruce is worth more in the market as material for wood pulp than as lumber. Spruce is the only wood that is in demand at the pulpmill as well as the sawmill. The cutting of spruce is stimulated by the increasing demand from abroad for American wood pulp, and it is an industry that the framers of the Dingley Tariff bill deemed worthy of protection. If Congress passes that bill, a duty of \$1.20 per 1,000 feet will be placed on Canadian spruce.

A recent calculation, made by experts in the lumber trade, shows that at least 65 per cent. of all the spruce cut in the forests of this country this year will go to the pulp mill. The competition of Canadian lumbermen has for a long time been a serious drawback to the profit-taking of

American timber cutters, consequently the im sition of a stiff duty on Canadian lumber wo meet with eager approval in certain quarte Ex-Gov. Russell A. Alger, of Michigan, has w large lumber interests in Canada, and while Montreal, a few days ago, he is said to have pressed the belief that the McKinley Admir tration would favor a "conciliatory polic toward Canada. The exportation of America wood pulp to Great Britain, it is said, will pn ably be largely increased during the coming ye in consequence of a proposed advance in price by Scandinavian manufacturers. Form the Scandinavian wood pulp had a monopoly the British markets, but the American prod has been making headway in that direct steadily for the last few years. - New Y

PULP NOTES.

Five thousand cords of pulp wood are being gotten on American account by one contractor at Stanhope,

The Dominion commercial as ant at Christiana, way, describes a new machine which an inventor placed on the market there, the purpose of which wash off, instead of planing off, the bark on pulp thereby effecting a great economy.

The Burgess Sulphite Fibre Company, of Berlin, I Hampshire, is looking about for pulp wood in the vince of Quebec. It is offering to contract for spulp wood in lots, large or small, to be loaded on can shipped during 1897. Liberal supplies will like drawn from about Coaticook.

A company of Buffalo men are said to have decide establish pulp and paper mills at Petawawa, seven a from Pembroke, Ont. The Guerton property has a purchased and operations will be conducted on an esive scale. The Petawawa section is rich in wood of every description.

Mr. F. H. Clergue, President of the Sault Ste Marie, Ont., in Toronto a fortnight ago. He states that the manufacturers will shortly hold a meeting, and a concert in requesting the Dominion Government to pa an export duty on pulp manufactures sent to come which do not allow these goods in on the same to as their goods are admitted here.

The total output of wood pulp and cellulose in way and Sweden amounts to 750,000 tons per am There is a disposition towards associated effort is control of the export trade. The manufacturers of a pulp in Scandinavia feel that they are doing business too small a profit, that the possession of imatracts of forests growing pulp wood, the ownership valuable water powers, ensitles this traffic to a larger centage of profit.

A pulp wood case came up before the Superior Co Quebec last month. Garneau, the plaintiff, had ma contract to deliver 2,000 cords of pulp wood to the E Eddy Company, the defendants, the company agree pay him \$4 a cord when delivered at Hull, and to ad-\$1 a cord as the wood was made, laid up and mark the company. When the plaintiff had about 300 piled in the bush he applied to the company for this vance, but they refused, claiming that the advance not earned until the wood was piled on the banks of Coulonge, the nearest stream. The plaintiff was de ing on these advances to go on and complete his tract, and by reason of the refusal of the compa make them was forced to abandon his work. The decided that the plaintiff had established his case awarded him \$2,000 and costs, finding that the pl would have realized a profit of at least \$1 a cord.

A POINTER FOR YOU.

Messrs. Reid Bros., Hepworth Station, Ont., www. Would you kindly leave the "200 M. feet Dry I wood" out of the advertisement which we have is paper, as we have disposed of a good deal of it find THE LUMBERMAN a good medium through whis find out the wants of the trade.

THE NEWS.

- —Alex. McKay will, it is said, build a saw mill at Rosebery, B. C.
- -H. T. Wilson, Franktown, Ont., will erect a saw and zhingle mill in the spring.
- --M. Brennan & Sons are removing their saw mill from Huntsville, Ont., to Sturgeon Falls.
- -R. T. Smith has requested permission from the Ottawa city council to open a lumber yard at the corner of Bay and Queen streets.
- -Mr. Eldoras Todd, of Brantford, Ont., is endeavoring to form a company, with a capital of \$50,000, to operate a fancy wood-work factory.
- The mills of the Ottawa Lumber Co. at Calomet, Que., closed down on the first of December, after a run of 169 days, during which 210,340 logs were sawn.
- —J. M. Taylor, of Portage la Prairie, Man., is making additions to his planing mill and adding new machinery thereto, for the manufacture of sash and doors, etc.
- —An exploring party fitted out in October last by the Owens Lumber Co., of Monte Bello, Que., to examine mineral deposits near Lake Innethaka, struck two veins which are said to be the richest in the province.
- The lumbermen of Tonawanda, N. Y., are making a vigorous kick against the scheme put forward by the Grand Island bridge projectors. The lumbermen claim the proposed bridge will greatly interfere with the navigation of lumber rafts. It is probable a large arch bridge or a suspension bridge will be built as a compromise.
- —The first load of lumber drawn over the street railway tracks at Ottawa was hauled between W. C. Edwards & Co.'s Lumber yards and the C. A. R. freight yards. The electric locomotive for hauling purposes is not yet ready and a street sweeper was rigged up to draw the lumber. The lumber was piled on an ordinary railway flat car.
- —A new tariff schedule, prepared by the government of the Argentine Republic, has been received by the Department of Trade and Commerce at Ottawa. By a fixed valuation the duty becomes specific instead of ad valorem. White pine, unplaned, is valued for duty at 35 cents per square metre, the duty remaining at 15 per cent.; the duty on plain lumber is 25 per cent. on a fixed valuation of 50 cents per square metre.
- —A deputation from the counties of Northumberland and Durham waited upon the Dominion Minister of Public Works and requested the removal of a dam in the Trent river, which was constructed fifty years ago, and was formerly used by the Gilmours, Rathbuns and other lumbermen. It was pointed out that the dam was no longer a requisite in lumbering purposes, as the timber areas which the Trent river served were practically exhausted. The Government promised to consider the matter.
- —The Serpent River Improvement Company applied to the Ontario Commissioner of Crown Lands for a supplementary charter, limiting the term of the existence of the company to 15 years, or to such other term as the Government might see fit to grant. The application was resisted by Hale & Booth, of Ottawa, who claimed that 15 years was too short for the lumbering firms paying toils for the improvements. They asked that the term be not less than 25 years, as they claimed that it would take that long to cut all the timber in that section. The Commissioner reserved his decision.
- The lumbermen working in the shanty of Mr. E. J. Doyle, of Ottawa, situated about four miles north of Old Chelsea, bad quite an unpleasant and exeiting experience recently. The cabin they were sleeping in caught fire, and the flames were well under way before being discovered. The men finally awoke, but it was then so late they barely managed to escape, without being able to save anything. One of the men, Mr. Jno. Brown, who lives at Rochesterville, had his boots burnt and had to walk over a mile through the snow in his bare feet.
- —Mr. W. H. Marcon, of the Toronto Hoop and Veneer Company, is said to be arranging for starting a factory at Toronto Junction, where he will manufacture cloth or rolling beards for export to the United States, England, France and Germany. These boards are rolled or reneered of basswood logs, and by this means there is no

waste in the cutting, as when sawn. The demand for these goods by woolen and cotton manufacturers is very large, and large capital is now secured to manufacture under the various patents which Mr Marcon took out some months ago.

-Mr. Adam Beck carries on an extensive business at London. Ont., manufacturing eigar boxes, veneer and thin lumber. The main factory is a brick building, 40 x 80 feet, three storeys high, with a two-storey extension 41 x 42 feet. In the rear are two "Progressive" dry kilns, built after Mr. Beck's own design. He also put in two new power nail machines, a new Leonard Ball automatic engine of 200 horse power, and a number of other machines. The building is heated by steam and lighted by electricity, and fitted with every appliance for the expeditious manufacture of the various lines. Eighty-seven persons are employed.

CASUALTIES.

- -J. Legallais was killed at Glencoe, N. B., by a falling tree, while cutting sleepers.
- —A young man was recently frozen to death in the woods while making his way from one shanty to another. He was in the employ of the Gilmour Company.
- -George Bushey, of Waubaushene, Ont., was engaged in felling a tree, when it fell in an unexpected direction, breaking his leg and severely injuring his spine.
- --While working in a mill at Grand Mere, Que., a man named Tontout was caught by a planer, which literally tore one arm from his body, causing death shortly after the accident.

PERSONAL.

- Mr. Angus McLeod, lumberman, of Bracebridge, has been chosen by the Conservatives to contest North Ontario for the House of Commons.
- Mr. C. Berkeley Powell, of Ottawa, a director of the Upper Ottawa Improvement Co., was a successful candidate for alderman at the late municipal election.
- Mr. James Russell Elhott, of London, Ont., was recently married to Miss Emeline Williams Mills, daughter of Nelson Mills, the millionaire lumberman of Marysville, Mich.
- Mr. Alexander Sutherland, at one time an extensive timber merchant, died at Canifton, Ont., late in December. He was 73 years of age, and a native of Caithness, Scotland.
- Mr. Thomas Bryce, lumber merchant, of Toronto, although unsuccessful in securing election as alderman for ward 2, received a gratifying support, coming in as fifth man.
- Mr. David McLaren, of Ottawa, left early in January on a trip to Australia. He is largely interested in the British Columbia saw mills, and will endeavor to learn the requirements of the Australian timber market.
- Mr. John Heard, sr., of the firm of John Heard & Co., spoke and heading works, St. Thomas, Ont., died early in January, at the age of 74 years. He was born in Devonshire, England, and came to Canada 50 years ago.
- Ex-alderiaan Crannell, secretary of the Bronsons and Weston Lumber Co., made a strong fight for the mayoralty of Ottawa, being defeated by a small majority. There were three contestants, and Mr. Crannell was second in the race.
- Mr. Thomas Meredith, of Yorkton, N.W.T., was recently in Ontario renewing old aquaintances. He conducts a retail yard in the town named, dealing in Douglas fir, red cedar shingles and white pine, and reports trade increasing as the result of better prices for farm products. Dressed fir retails at \$28 to \$30, and rough boarding at \$17.

American lumbermen are beginning to consider economical methods. Several have already discovered that the saw is preferable to the axe in felling trees. Another important step is to prevent waste in slabs. This can be minimized by adopting a common European method. Generally in America a log is squared and then sawn into boards of the same width. In Germany the log is not squared, but sawa directly into boards. These boards are sorted according to their widths. The two edges are then sawed separately. This is a slower but more economical method.

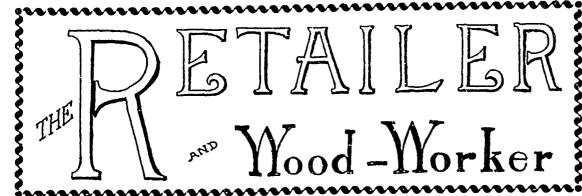
REMARKS OF A BANKER.

In an address before the Canadian Club at Hamilton, Mr. B. E. Walker, manager of the Canadian Bank of Commerce, referred to the question of forestry. He regretted that our timber lands had already been denuded of oak, elm, sycamore and walnut, the former wood being now imported from Minnesota. In white pine, however, Canada was in the lead. There was no white pine outside of America, with the possible exception of Siberia, and though in the aggregate there was a large quantity left in Michigan, Wisconsin and Minnesota, the great bulk of the world's supply was in Canada. What we had would last for 100 years if any care was taken of it. The belt commenced at the southern edge of Algonquin Park, and moved west and north to the Gatineau, Coulonge and Black River districts. In the latter localities it was rapidly reproducing itself. The Rainy River pine, although coarse and small, was also worth a great deal. The most valuable timber asset we had, however, was the spruce timber. Reproducing itself as it did, it was practically inexhaustible, and, in addition, it was of a much better quality than that which grew in Europe. Canada already supplied Europe with timber for pulp for the best paper, and the next step should be to make the paper itself here. The British Columbia forests, with their immense trees, could not literally be said to be inexhaustible, but the quantity was so great that that was practically the case. This timber in British Columbia was a very good example of the third class of available raw material before referred to-that which could not now be profitably made use of on account of its geographical position. Mr. Walker also advocated the adoption of a forestry system. Something besides ranging was necessary to guard against the danger and results of

PRESERVATION OF TIMBER.

OBSERVATIONS upon the preservation of timber have shown that the more warm and humid the atmosphere, the more rapidly the wood deteriorates, also that timber felled in winter is more durable than that felled in summer, and that timber raised in cold climates is more durable than that raised in warm climates, while the best timber is produced on meager soil. When under water, the most lasting woods are oak, alder and pine, the least so being birch, linden and willow; in the air, timber is exposed to the ravages of insects, this being the case with sap wood more than the hardwood; woods rich in resin, like the elm and poplar, are not so much troubled as those like the alder, willow, birch, yoke, elm and red beach, which have an abundance of sap and are rapidly deteriorated. Timber construction which is protected from heat and humidity is only endangered by worms, and, on the contrary, that which is in a damp and badly aired place injures by rotting, which is really the result of microscopic vegetable growths. The primary cause of the decay of wood is the presence of albuminiod substances in the sap and incrusting materials, these naturally affording nourishment to insects and microscopic vegetations and their destructive work.

"Advertising is to business what steam is to machinery—the grand propelling power."—Lord Macaulay.



A LONDON RETAIL YARD.

THE largest retail lumber yard in the "Forest City" is that of Kernohan, Webster & Ferguson, situated at the corner of York and Ridout streets. The individual members of the firm are Messrs. G. N. Kernohan, R. J. Webster, and A. Ferguson, each of whom are energetic and enterprising business men. They keep constantly on hand a large stock of lumber, lath, shingles, cedar posts, etc., and being situated in close proximity to the Grand Trunk Railway, the shipment of lumber is greatly facilitated. Owing to their extensive trade, they are enabled to supply stock at short notice, and during the building season the yard presents a continual scene of activity. The business has been conducted by the present firm since 1893, but in that comparatively short space of time they have established a wide connection.

BUYING GOODS ON CREDIT.

The following suggestive extract is taken from an address delivered before an association of credit men by Mr. Henry Wollman, of Kansas City:

"Suppose a man comes to you and says he wants to buy goods on credit. You say to him, "Well, how much can you sell?" He always puts it high enough. "All right; put that down. How much profit can you make?" He always makes that high enough. Find out whether he thinks the profit is on the basis of the selling price or the cost of the goods. You will always find that it is really on the cost, but he thinks it is going to be on the selling price. Figure it out either way and put that down, and then you have the gross amount that he can make. Now, then, add up the items of what he tells you are expenses will be, and then deduct one from the other, but be sure you don't let him fool you or himself on the item of expense. When he tells you that he is going to live on \$30 or \$40 a month, when you know that nobody else in his circumstances does, don't believe him, but be sure that you get it reasonably correct, and then figure a little something for interest that he is going to pay for borrowed money during the year-he never thinks of that and be sure to take something out for depreciation in value of the goods at the end of the year-you will find out that he never figures in advance that his goods are going to depreciate at the end of the season, and then see if you can't determine for yourself that that man, if he is a beginner, is or is not going to be a good and safe risk. You will find that nine times out of ten, if you will take his own figures for it, you can see that, without knowing it, he has demonstrated to you in advance the impossibility of his succeeding."

CHANGING METHODS.

It has been quite a study with me for a long time whether or not we should confine ourselves rigidly to one rule, or system, or style of doing things in planing machine practice, either in fastening belts, setting and grinding cutters and knives, or, in fact, anything that pertains to planing machine work. In the matter of fastening belts, we read how a great many lumbermen seem so devoted to the worship of one system that, like the ancient martyrs, they would hold onto it if they had to sacrifice their lives to maintain their cause and show faith in their system.

It is all very well to be firm in any faith, but to this faith we must add a consistency, to show that it is correct in practice as well as in theory.

Anything to be valuable must be practical, and it it lacks the element of usefulness, it will sooner or later be lost in the sea of oblivion.

But many old theories die hard, if they ever entirely go out of existence. There are persons so absorbed in belt lacings that I believe if they were shown some other style of fastening infinitely superior in every way to lacings, they would still use them. That they are good in their place no sane person will attempt to deny, but that they are the best in every place it seems as if in these days of progress no one will be so obstinate as to affirm.

The same may be said of every known device for fastening belts, from the poorest to the very best.

Let me show you an instance. Quite a few years ago I was in a place where at 4 p.m. I was obliged to cut the lacings to a twenty-inch three-ply belt. Every day this was done, and when the engine stopped at 8 p.m. that same belt had to be released with new lacings, which were made by cutting two strings from the longest part of a large hide. Now those who are posted in the cost of hides can probably figure out how much these strings cost.

In this case, however, the cost was not an item, as "Uncle Sam" footed the bills, but the point to be made is all the same. There is but one belt fastening that could fill the bill under the conditions, and that is the Blake's belt stud. If we had had the oo Blake stud, they could have been re-used day after day almost indefinitely and the cost of two lacings a day could have been saved. That same stud was in use then, but we were intensely wedded to lacings and there was no officer or lawyer who could divorce us from it.

I simply bring in this single case to show that in all ordinary cases we can and should adjust ourselves to cases and conditions, and not be so riveted to an idea that we can, among the great multitude of good things, find but one to which we can resort. It has not been a long time since all ar were got up by the slow process of the wir and the "Yo heave O." Since the grantroduction of steam a better and quicke has been found, and sailors are forgettin old hoisting song "the good old way."

Now, while I am an intense believer Blake belt stud, I believe there are many where even leather lacings are better, and adapted to the work. I believe in riveti nearly all heavy belts, but I don't believe t every case lapping and riveting is the best There is a steel hook on the market that through and clinches on the inside that I th good deal of. These are made in several le and sizes, and for double and single belts, . many cases I would use them. Often a l breaking tears straight or very nearly st across. It is as tight as it will bear not we cannot cut for hooks or even lacing, t can butt the ends together and use thesi fastenings, which can be done in very little and is a very strong fastening. Often we belt torn part way across and these fast are admirably adapted to these places.

The common flat steel hook is also very in some instances, and I always keep an a ment on hand to use where they suit my coence better than anything else.

I have used wire lacings and they make even, quiet-running belt, but I do not keel in general use.

I have spoken more at length on belt ings, because there is a much greater var places and conditions where they can be and are used, to good advantage. The per be made is, that it is not good policy to be ed to one particular system when it is so better to have several methods to resort to

Now, in the matter of knife grindin setting, it is in my opinion not policy to yourself to one style, especially if you have ent kinds of work to do on the same mad

On common, ordinary white or yellow should grind a fairly generous bevel. stock was kiln-dried, I should use a bevel, and in some cases I would bevisides. The under-side bevel makes one best-known chip breakers and saves usi lip of the cylinder, the style employed by a setting the knife back into the head.

I often do this on kiln-dried yellow pi the best results, and, while it does nice valso serves the lips on the cylinder, which is a good thing that every planing machinought to attend to, for when they get se that shavings drive under the knives, bad often follow, and a broken machine is not a desirable thing to have on hand. The about this grinding business is that a many concerns think that any more the sets of knives is an expensive luxury, and be allowed only under the most urgent stances.

I believe in keeping a rack full of k good, long half-dozen sets, more or less.

It is not good policy to use up a set or knives clear up to the slots before orderi ones. Old knives may do for light wowhen heavy stock is in the mill, no one w stand and feed a machine for fear the kni go up the blower spout. And not only t

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wind you want knives that you can grind for the different kinds of work that come to hand.

In the matter of side cutters two lumbermen should not confine themselves to any one style. If they do they will many times find they are in the condition the slang phrase "get left" so nicely expresses. 15 p!;

Shimers are good. Solid bitts are very good, d br but you are not in fine shape for everything that comes along till you are well fitted up with three part bitts. The three kinds taken together with it de a few spare heads gives you a confidence in yourself that you are fully prepared for business of thit any kind. In bench sawing, too, a good variety and style of saws is just what is necessary to do all kinds, and to pinch yourself here is to spite your face by biting your nose off. - John Shaw, in Lumber.

ese. NUMBER AND ARRANGEMENT OF CYLINDERS.

REPLYING to the question "How should lumve ge ber be dressed?" referring especially to the number of cylinders and their relative arrangement, a correspondent of Sawing Wood says: "That ery g. depends. If the lumber is sawed with a circular, 1 as two cylinders placed most any practical way would surface both sides well, for the reason that any ridges left by the saw teeth would extend more or less lengthwise the board, and give some bearing all the time under the first cylinder. If the lumber be band or gang sawed any ridges -and there are many-would run across the board, and while the opposite face between these ridges is being dressed it is poorly done, because that space does not lie on the bed. Hence, if I were to select a double surfacer for doing fine work on both sides of band sawed lumber, I should require three cylinders, two upper and one lower. The first cylinder on this kind of lumber can not possibly dress it smoothly, for reasons given above, but could give a comparatively even surface to rest on while being dressed on the other side by the next cylinder. This cylinder would do smooth work because of the fine bearing the lumber would have, and would, of course, give a perfect foundation for the third or finishing cylinder, which would operate on the face first operated upon, and give as a result two perfect faces.

"Some people advise running lumber face down. Of course it makes no difference in surfacing only, but when matching it is difficult and unnatural to run flooring face down, as you never can see what the machine is doing until the board is completely out of the machine, and then you must turn it over."

DRYING LUMBER.

A SUBSCRIBER of THE LUMBERMAN wishes to know the best way of drying lumber in a kiln by means of a stove. If any of our readers have experimented in this direction, we would be pleased to learn the results of their efforts.

ONE OF THE BEST.

Messes. Reid Bros., Hepworth Station, Ont., in renewing their subscription to THE CANADA LUMBERMAN, write: - "We consider THE LUM-BERMAN one of the best papers we get, and would not be without it."

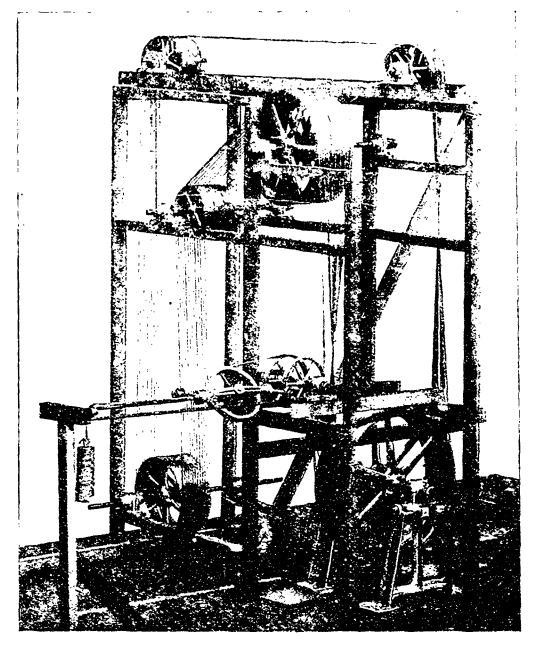
ROPE TRANSMISSION.

THE illustration given below was taken from a model of the Dodge Patent American System of Rope Driving, designed to transmit power as required in a large mill, and at the request of the mill owners designed to avoid the use of the ever-troublesome and expensive gearing which would be necessary to otherwise accomplish the results herewith successfully attained. This illustration demonstrates the simplicity with which a shaft may be run at right angles to the driver, and with little or no loss of power. It is a well known fact, however, that with gears there is a great loss of power from friction, and many other disagreeable points of contention; also, with a belt and set of mule pulleys, there is great loss by imperfect contact of the belt with the pulleys, journal friction, and other annoyances sufficient to condemn it. On the contrary, with the manilla rope system, under the

of transmitting power) in this case is of the horizontal type. The idler sheaves near the tope tightener carry up and over to the travelling carriage, and are so placed that this carriage always keeps, the rope, at an leven and correct tension (governed by the amount of weight used, see left of illustration), so that the rope will always follow the grooves, and is thus carried to and from the driven sheaves and the driver, always keeping its alignment. The tension weight serves a double purpose in taking care of all slack caused by stretch of the rope or by atmospheric changes, and by keeping a continual and proper tension on the rope.

In the United States, during the past ten years, rope this is the proper tension of the past ten years, rope this is the past tension of the past tension to the past tension tension to the past tension tension

diving has gained a wonderful precedence. Its former opponents have been convinced of open merits and are now the strongest advocates of this system of transmitting power. Belting has its place; driving by means of ropes has its place in mechanics. The latter, however, has two great advantages over the former: the first, the ease



DODGE PATENT AMERICAN SYSTEM OF ROPE TRANSMISSION.

Dodge patents, a shaft may be driven at right angles to another with the same efficiency as two parallel shafts are ordinarily driven.

This drive is peculiar to itself; the double right angle driving being a feature not frequently brought to notice. The driver on the engine shaft makes 70 R.P.M., operating the transmission in either direction, and carries fifteen wraps of one and one-quarter inch manilla rope to the driven sheaves, both at right angles to the driving sheave on the engine. The first driven sheave is 36 feet above the center of the engine shaft, makes 90 R. P. M. and transmits two hundred H. P. The second right angle drive is six feet below the center of the engine shaft, makes 140 R. P. M. and transmits three hundred H. P. The arrangement of the ropes is nicely shown in the illustration and needs no further explanation.

The travelling carriage or automatic slack rope take up, (one of the valuable features of the American System

with which it overcomes any of the knotty problems frequently met with in power transmitting engineering; the second, its great cheapness as compared with any system of belting or gearing. A rope will always do the work of of belting or gearing. A rope will always do the work of a belt, but there are, in daily operation in all portions of the United States, rope drives doing excellent work which, if replaced by any combination of belting, would simply evolve a most disastrous failure.

The very low first cost of rope transmission is an indisputable fact, and likewise is the cost of maintenance where the drug is designed and created by parties where trade

the drive is designed and erected by parties whose trade mark is fermed by long experience and excellent workmanship. Dodge Manufacturing Co. have designed, manufactured and installed rope transmissions of their Patent American System for the past twelve years, and the success of their work is now depicted in every state in the Union.

The merits of this system are, its simplicity, great ciency, cheapness, and wonderful saving in journal fric-tion as compared with gears or a heavy belt with mule pulleys. The sole manufacturers in Canada are the lodge Wood Split Pulley Company, 74 York street, Toronto.

THE CARE OF LOW GRADE STOCK.

HARDWOOD saw mill men are apt to neglect the proper care of cull and mill cull stock when they shut down for the season. In many a yard that has been shipping through the fall all the culls and mill culls that have been thrown out of better grades can now be found scattered in promiscuous piles all along the alleys and in the rear of the stacks, often criss-cross between piles. In many instances where the low grades have been wanted to ship, it has appeared easier for the foreman to go to regular piles already made rather than take the trouble to pick up and sort over the miscellaneous rejects thrown out in shipping.

This is all wrong and a waste of stuff which, if it is worth anything is worth taking care of, as by neglect, carelessness and exposure to the weather, what was pretty good shipping culls may easily be reduced to mill culls, and what was good, saleable mill culls may as easily be rendered worthless for shipping.

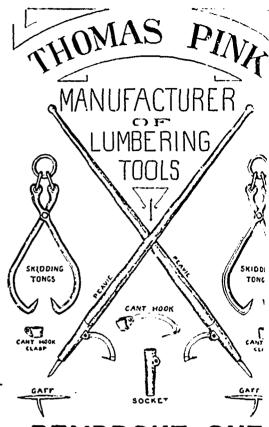
In all well regulated saw mill yards there is some one whose business it is to see that all rejects from the regular piles during each day's shipping are picked up, sorted to the proper lower grades, and if not wanted for shipment on orders already booked, are run to the appropriate pile and stacked. Some parties make special piles for these outs as they are generally rather better than the average grade made in sorting the green lumber, and vuyers some times prefer them sufficiently to pay 50 cents or \$1 more for them

Cull and mill cull oak gets worse very rapidly if thrown into promiscuous piles and allowed to remain for even a few days, if the weather is wet or snowy or very hot. This is a matter that is too often neglected by the saw mill man, who cuts only from 5,000 to 15,000 feet a day, and as he plugs on year after year, he wonders why his business does not show any profit over and above a bare hog and hominy existence. —Hardwood.

A PACIFIC COAST SPLINTER.

Pacific-coast slabs and slivers are gigantic things. For example, in New Whatcomb, a seaport town and the county seat of Whatcomb county, the north-west county in Washington, and in the United States, is erected on the outer edge of a sidewalk on one of the principal street corners an immense slab or section of one of Wachington's biggest red fir trees. The slab, being cut directly across the diameter of the tree, like a butcher's cutting-block, is set on edge, the greatest diameter extending upward, the bark being on its entire circumference. A stranger naturally feels inclined to walk up to the slab and measure it by his height, and he is surprised to find that it would take another man standing on his head to extend to the top of it. Then he steps back a pace and reads the following inscription, neatly printed on a board attached to the face of the slab: "Tree from Loop's Ranch Whatcom county, Washington. The tree was 465 feet high, 220 feet to first limb, and 33 feet 11 inches in circumference at the base. If sawed into lumber it would make 96,345 feet. It would build eight cottages two stories high, of seven rooms each. The tree is about 480 years old,

according to the rings. If sawed into inc square strips it would fill ten ordinary cars, a the strips would reach from Whatcom to Ching The section shows the tree sound to the core.



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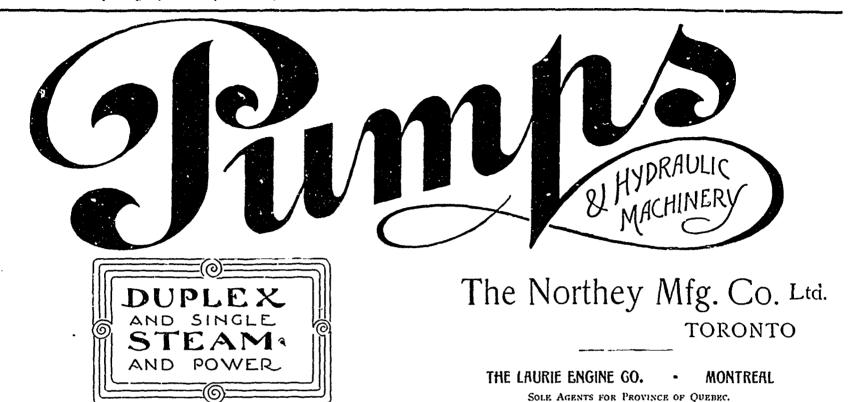
HARDENING SAWS.

saws are generally hardened in mixtures of ina oil, tallow, wax, and other substances, says the e. American Manufacturer. It should be noted, though, that the hardening mixture loses its properties after a certain time of continual use. The saws are heated in long furnaces and then dipped in horizontal position with the tooth edge into long troughs filled with the hardening substance. As soon as the saw is cooled sufficiently, it is taken out and wiped lightly with a piece of

leather, so as to remain still greasy; then it is placed over a bright coke fire until the grease coating inflames and has burned off with a bright flame. This burning off produces the necessary elasticity.

A good hardening mixture is obtained by melting five quarts of train oil, two pounds of tallow and a quarter pound of beeswax thoroughly together. This mixture is excellently adapted to hardening all kinds of steel. By adding one pound of resin heavier articles can be hardened,

but care should be taken that the proportion of resin is not exceeded, as otherwise the objects may become too brittle and crack. If the saws are too especially hard, only a part or the grease coat is allowed to burn off; if softer, more. In the case of springs, burning is allowed to continue until the flame goes out. If the objects are of irregular thicknesses, the burning process is repeated, altogether or partly, until there is reasonable assurance that the object is of equal hardness at all places.

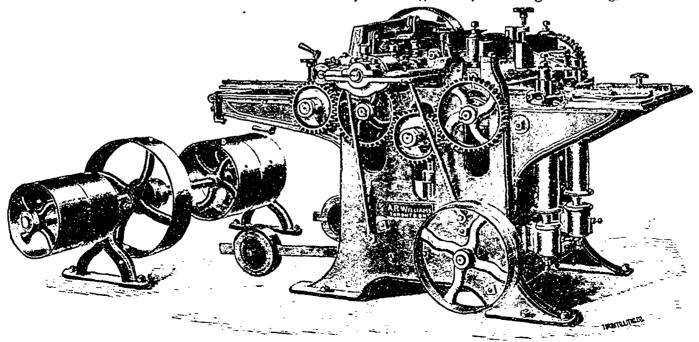


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OUEBEC CROWN LANDS.

QUEBEC CROWN LANDS.

The report of the Commissioner of Crown Lands for the province of Quebec, covering the year ending June 30th, 1896, shows the total receipts from that source to be \$1,045,310.19. Of this amount forest lands account for \$951,098.92, an increase over the previous year of \$178,763.36. Timber dues amounted to \$705,260.31, ground rents to \$143,485,73, bonuses to \$83,255.20, and transfer bonuses to \$4,230.47. The following is a comparative statement of the timber manufactured during the last two years, as compiled from the commissioner's reports: years, as compiled from the commissioner's reports:

•	1895	1865
Pine at 26c. per 200 feet	276,805,800	807.145.720 leet B.M.
Spruce at 13c. per 200 feet	21 1,237 200	270,144,630 " "
Small pine logs	64,293,753	110,650,844 " "
Boom timber	2 541,230	417,010 " "
White pine	150,500	1,44 G 154 Cubic feet
Red pine	2,131	1.788 " "
Birch, etc	12,012	40,785
Cedar, etc	256,248	263 193 linear feet
Firewood	8, 12	عسا ويورو
Pulp wood	7,712	11, 79 "
Spool wood	1 907	5,074
Railway ties	120,155	300,311 pieces
Lath wood	177	i 9 conts
Shingles	13,754	3,082 M.
Heinlock bark	9:9	202 cords.
Rails	7,870	20,563 pieces.
Telegraph poles	2,503	1,552
Pickets	12,967	14,877 "
Knees	544	" '8 "

It will be observed that there has been a considerable increase in the production of pine, spruce and pulp wood, while shingle manufacturing has been reduced from nearly fourteen millions to slightly over three millions.

Mr. Paul Blouin, Superintendent of the Woods and Forests Branch, reports that the season of 1896 was an

exceptionally dry one, but owing to the activity of the forest rangers no serious fires occurred. Fifty-six fires were extinguished by the staff, most of which resulted from settlers clearing lands, others from lightning, a few from sportsmen neglecting to properly extinguish their camp fires, and one from a passing train.

The London Timber Trades Journal says: Many curious discoveries have been made in the saw mill when opening logs, both animate and inanimate objects having been found in the in-teriors of trees, and the saw somtimes meets with strange obstacles. At Messrs. D. Norton & Sons' saw mills, Wharf road, City road, some time ago, when cutting some swamp oak shipped at one of the ports of a southern state of America, the saw encountered some hard metal objects in the centre of a log, which proved, on examination, to be the iron heads of tomahawks, or so similar weapons. Search was made in the offlogs and several more weapons were foun The wood had grown twelve inches or more thickness over the missles, which must, the fore, have been imbedded in the wood for ve many years-probably before the white man; vaded the forest solitudes of the new world.



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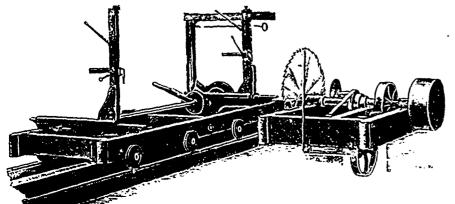
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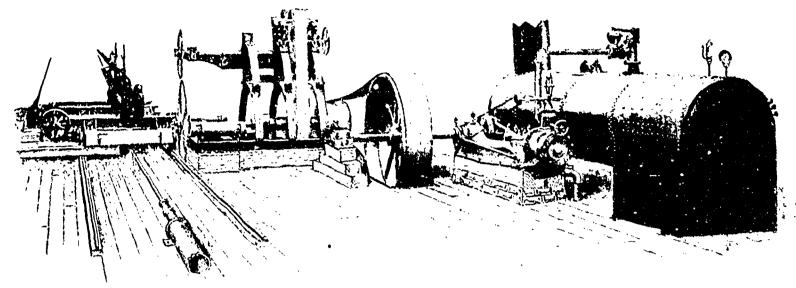
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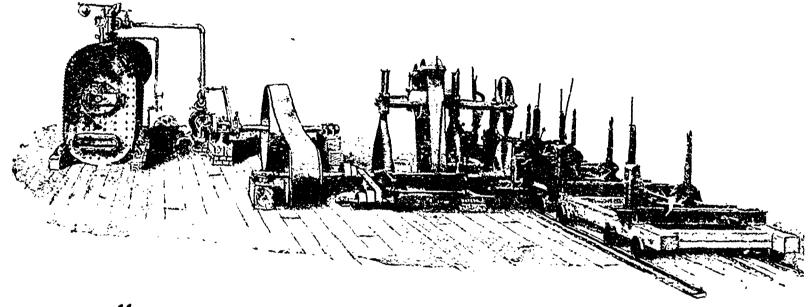
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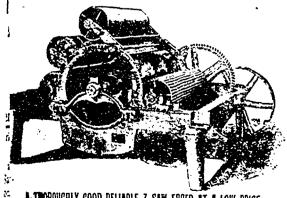


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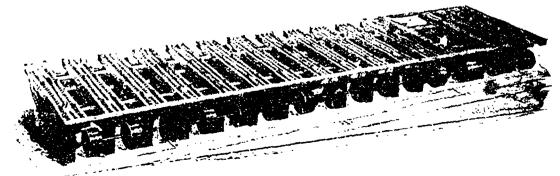
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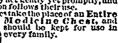
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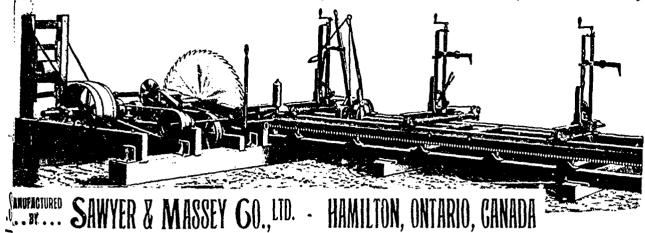
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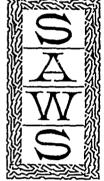
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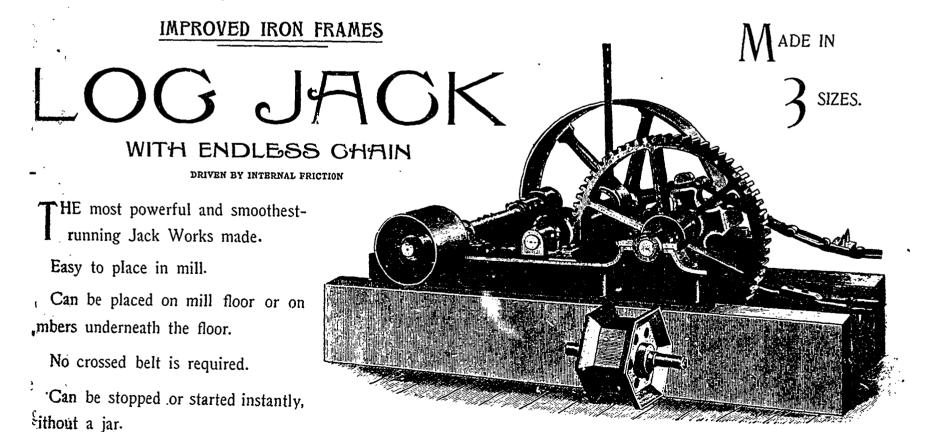
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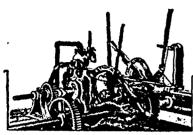
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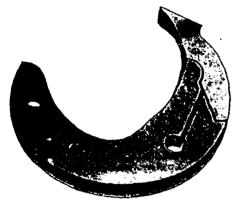
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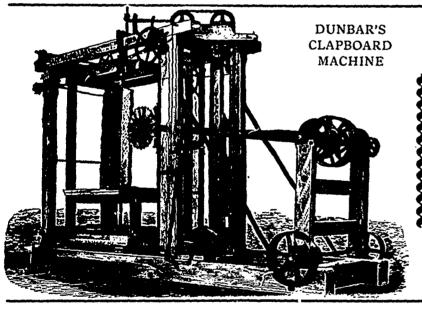
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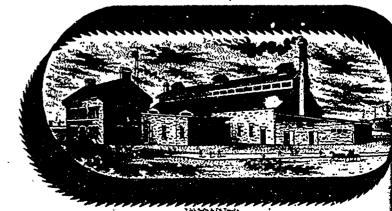
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