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PUBLISHED | SEMI-MONTHLY.

The only Newspaper devoted to the Lumber and Timber Industries published in Canada.

| BUBSCRIPTION | \$2.00 PER ANNUM

VOL. 4.

PETERBOROUGH, ONT., FEBRUARY 1, 1884.

NO. 3.

MORE lumber will be cut in Maine this winter than has been expected, owing to efforts to secure as much as possible of the large amount | Tousey's travels in Southern Europe :of timber that was blown down by recent heavy

AT Duluth, 406 buildings were exected during the past year, at a cost of \$1,527,121. The lumber output increased to the amount of 31,525,322 foot, and grain receipts increased nearly one half.

ONE of the largest cargoes of Southern pine ever brought into the port of New York came to Robinson & Booth, per schooner Nathan Esterbrook, Jr., from Pensacola, Fla., consistting of 580,000 feet.

A PARTY of loggers have gone into the woods on the head waters of the Yakama, W. T., under the direction of James Robinson, for the purpose of getting out ties and other timber for the Northern Pacific railroad.

THE Connecticut River Lumber Company, of Hartford, is intending to put into Connecticut river this season 20,000,000 feet of spruce logs; Goo, Van Dyko, of MoIndoes Falls, Vt., will put in about 12,000,000 foet, and Capt. A. M. Beattie, of Lancastor, N. H., 5,000,000. A large number of smaller operators will swell the grand total to 50,000,000 feet to be cut from the forests of Northern Vermont and New Hampshire, to be run down the Connecticut.

THE Northwestern Lumberman says :- Mr. S. H. Webster, for many years an extensive lumber manufacturer in the Saginaw valley, who a few years ago offected a settlement with his creditors at 50 cents on the dollar, came to the front on New Year's day and presented every one of them with a check for the other half of the dollar. Always a genial generous gentleman as well as an enterprising business man, this last act of Sam Webster, as he is familiarly known, ought to make his name immortal. In this day and ago such a dood is as rare as it is gratifying.

THE Timber Trades Journal says :- According to the United States papers pitch, or, as they term it yellow, pine, is to be the wood of the future, and men have been buying up timber lands expecting to realize an advance within a reasonable period; but we expect the time will be a long while coming when the demand for fitch pine supersedes that for wood from the Baltic ports. It is idlo to talk about the exhaustion of the forests of northern parts of America as clearing the way for a more active consumption in timber from the south, for we have still got to deal with all the Russian forcets besides those of Finland, Gulf of Bothnia, and Germany, besides Poland.

FOREST DESTRUCTION.

The following is taken from Mr. Sinclair

Much of France, nearly all of Spain, and large portions of Italy are entirely destitute of forests. The tourist can travel day after day in these countries without seeing standing timber enough to make a descent sized baru. people in these sections are bothered to get the very little fuel they need, depending upon the trimmings of shade and fruit trees and vines for what they get; while the damage done to the country by heavy rains is boyond estimate, especially in the hilly regions, where the rain falling on the ground, finding no trees with their wide-spreading roots to check its passage off the alace, rushes with tremendous force into the valleys carring all before it.

So destructive are these torrents, and so suddenly do they come down the river bed, that in many places heavy stone walls are erected to keep the sweeping floods within bounds. Within a few hours after one of these torrents have swept down a valley, the bed of the river will be as dry as if water had never wet it. Another evil is the scarcity of small running streams for the use of cattle and for manufacturing purposes

The unchecked rain, finding nothing in its way, liastily passes from the surface and gets into the sea; whereas, if the land was aprinkled with forests, much of it would be absorbed by the ground, and by gradual percolation find its way to the streams and keep them alive to aid the work of man and give drink to animals.

I carnestly implore the owners of forests in our favored land to be careful of the trees and waste none. We can leave our successors no botter legacy.

PROTECTING THE ADIRONDACES.

The movement in favor of the protection of the Adirondack forests in the State of New York sceme to be progressing rigorously. Mr. J. C. Parsons writes to the Brooklyn Eagle entering very fully into the advantages of perpetunting these forests as regards climate, the insurance of a water supply for the Erie canal. and the value of the revenue to be derived from [the timber, &c. As to the question of purchasing lands in addition to those held by the State he says:-

"But why should the lands not be made in time to repay the cost of purchase. Setting aside other considerations, in respect to the general welfare of the State? If immone fortunes have been made in the lumber business why cannot the State, by establishing the seme system in connection with the forests as in Europe and Canada, derive an annual revenue from the judicious thinning out of the timber.

We fully agree with the writer as to the propriety and the economy of the course he ang-

tal, but are obtained by the suicidal policy of with those who are not likely to require their "killing the goose that lays the golden eggs." customary supplies very hastily from abroad. Our forests are being destroyed, not cropped as in the European system.

SUPPLIES FROM GREAT BRITAIN.

The Timber Trades Journal says:- It must be kept in mind that the vast consumption of timber going on in America does not effect the European export market very much, because there is sufficient competition among the various timber shipping countries on this side of the Atlantic, to keep prices moderately low, even if the supply from North America to the United Kingdom were cut off altogether; and it is significant that among the causes periodically assigned for inducing us to believe in a shorter supply the succeeding season, no attempt is now made to persuade us that the Scandinavian forests are graduating towards early extinction when no further use can be made of natural causes—the absence of frost and snow, the want of water in the rivers, or too much of it &c. then societies, clubs, and conventions are either formed or forming, we are told, to prevent so much wood from being cut down, and to limit the supply t the requirement of the trade, with a fair profit to everybody. But comehou or other it always happens that, however large has been the export from the producing coun tries, there is a good deal more left in the hands of the shippers than it is agreeable for them to hold over when the season closes.

The letters of our Swedish and Norwegian correspondents, which we published last week are both pretty much to the same effect. one alluding to the mild sesson that had pre vailed in Sweden up to that date (15th Dec.) adds : "There will consequently be no production of legs to speak of in the principal export districts till the second week in January. This may be remedied; but he says that it is intended to curtail the supply "unless a rise of price takes place before the end of February;" but in any case he thinks " it would be suicidal to make as many logs as of late years." Norway authority also is of the same opinion, stating "that it is pretty certain the number of logs will not be large, the cutting having begun so late.

gests, and willingly accept his testimony in favor | to a natural law which governs all trade—just | to 100,000 each.

of such a system. We must, however, express as we see in our own ironworks, where the manour regret that the situation is not so favorable ufacturers are quite as auxious to do business in Canada as he imagines. In Europe the now that the price is about £6 per ton as they Government forests are perpetual and yield a were when the same description was £10 and constant annual revenue without impairing the | £12 per ton. And as there is semething more national property. In Canada though there are than an average winter stock of wood goods in annual receipts from the Crown forests they are hand on our side, it is not likely that larger not in the nature of a yearly income from capi- | prices will find favor here for some time to come

THE CANADIAN POPLAR (POPULUS CANADENSIS)

I have long thought that this tree deserved to be more extensively planted than it is, especially in situations for which it is more especially adapted, viz., moist water margins and similar places. Even when planted in elevated or dry situations it over tops everything else. I have in my "mind's eye" a belt of mixed trees that were planted about forty years ago, and the Canadian Poplar, as it is locally called, as nearly double the height of the other trees, of which a goodly proportion are spruce firs; the poplar far outstrips them all, both in height and cubic contents of timber. It is, however, as I have said, in damp ground that its rapidity of growth and inclination to produce timber is more especially remarkable. The timber, likewise, is not without value; but I do not fully endorse an old distich which speaks of it as ontlasting that of the oak under certain circum-There are, however, purposes for which it is very suitable, being almost incombustible. In Kent there has been of late years a great demand for it for the joists of hop-kilns, which, being exposed to the action of a hot charcoal or coke fire burning openly a few feet below, are necessarily much exposed to the risk of being burned down. Poplar joists are, therefore, much sought after. Boards of poplar, as well as those of willow, are also useful for insides of stone wagons or carts, where a harder wood is not so good, being liable to splinter during rough usage. There are other purposes to which peplar wood may be turned to good account, but it is unnecessary to mention them here; suffice it to say that the rapidity of its growth is a sufficient reason for recommending it to be planted extensively by all who wish for immediate effect .- A. R. G., in " Woods and Forcals."

A Large Contract.

Mr. Oscar A. Droege has just entered into a contract with the Mexican Government to plant 2,000,000 trees in the Valley of Mexico But what we have to look at is the state of within four years. The contractor pledges the supply on this side, and the general desire, himself to plant 80,000 ash, 35,000 willows. which is always apparent in the timber roun- 120,000 poplars, 60,000 eucalyptus trees, 60,000 tries to get their produce turned into British acarras, and 120,000 of miscellaneous varieties. money with the least possible delay, in obedience. The trees must be in plantations of from 10,000

AUSTRALIA.

We take the following from the monthly circular of Mossrs. Lord & Hughes, timber brokers, of Melbourne, dated the 21st of Nov. 1893 ·

Since our last report, on 21st ultimo, the offerings at auction of most descriptions of timber have been large, and we have to report a general decline in price, except for American lumber, which has shown an advance.

The cargo of spruce ex Hooghly, from Quaboo, via , Adelaide, and the balance of Uregon, on Chrysolite, were offered at auction yesterday, hus bidding not being up to importors' views, they were withdrawn.

The trade are doing a large business, which seems likely to continue.

The arrivals have been-Mano Becker, from Gothenberg, and Bertha, from Frederickstad, with flooring; Felix, from Gefie, and Leto, from Soderham, with deals; Heeghly, from St. John's, Memon, from Saguenay, and Augusta, from Chicontum, with spruce deals, flooring, and pickets; Star of Poace, from Port Gamble, with Oregon timber, laths and pickets; Rodney, MacCullum More, Andress, Sussex, and Loch Shiel, from Great Britain. with flooring, deals, slates, load galvanized iron and coment, Etna and Hanover, from Hamburgh and Antwerp, via London, with galvanized iron and coment; Eme and Navosink, from Boston, with clear pine, shelving, coiling, spruce deas, slates, laths, and plaster Stanley, from Kaipara, with Kauri pine; Nemesis, Wendonree, Leura, Redondo, Kon-cowarra, and Cheviot, from Suthit Touth cedar and laths; Victorian and the mustralian, from Adolaide, with laths and plaster.

RED DEALS. - Imports : 613 standard, from the Baltic. The arrivals have been Felix, from Geffe, and Leto, from Soderham. Sales by nuction during the month have been light. On the 30th October the cargo ex Mississippi was offered, when only 300 pieces 9x3, brand HBA, were sold at 5d. per foot of 3. Other sales have been of parcels ox Charlotte Large and Wilhelmina

SPRCCE DEALS .- Imports: 59,576 pieces The arrivals have been Hooghly, Memnon, and Augusta from Canada, Eme and Navesink from Boston, and Adrosa from Liverpool. Sales by auction compriso cargo ex Memnon and shipments or Navesink and John Lewis, the latter being a transhipment from Adeliade; 11x3 realized 3gd. to Sd., and 9x3 3gd. to 3gd. The cargo ex Hooghly was offered yesterday, but 3 3-16d being the best offer it was withdrawn for the present.

OREGON TIMBER.-Imports: 637,114 feet super. This parcel arrived in the Star of Peace from Fort Gamble, and was offered at auction on the 13th inst., but only a small portion was sold at £6 12s, 6d, for deal sizes, and £6 15s, for flitches. The cargo, ex Nanaimo, was sold on 2nd inst., at £7 2s. 6d. to £6 10s. The balance of cargo, ox Chrysulte, was offered at auction yesterday, but £6 7s. 6d. being best offer, it was withdrawn.

LUMBER. - Imports Clear pine, 260,888 feet super; white pine shelving, 96,190 feet super; T. and G. ceiling, 15,687 feet super. The arrivals have been Eme and Navesink, from Boston. The cargo, ex Navesink, was offered at auction on 16th inst., when all the shelving was sold at an advance on last quotations, Peabody brand realizing £14 to £13 12a 6d. revero, £13 12s. 6d. to £12 12s. 6d. T. and G. ceiling, £10 2s. 6d. Michigan clear pine realiz ed £18, and Canada clear, £17 10s.

PITCH PINE.-Imports Not. Auction sales. -NiL

REDWOOD. - Imports Nd Sales by auction have been made of 1 in 2 in. 3 in. and 6 in. at

FLOORING AND WEATHERBORIES. - Imports 2,756,160 feet lineal from the United Kingdom and Norway; 1,028,930 feet lineal from Conada. The arrivals have been Mane Betker and Ber tha, from the Baltic; Memnon and Augusta, from Canada; Rodney and Loch Shiel, from Great Britain. Sales by auction during the month have been made ex Charlotte Lange. Iranhoo, Wilhelmina, Schwanden. The follow-9s. 6d.; 6xg, 8s. to 7s. 9d.; 6xg, 6s. to 5s. 9d.; of Dining Care, which go into immediate ser-

0x3, 5s. Gd. to 5s. Sd.; 5x3, 4s. 9d. to 4s. 6d.; 4-out weatherboards, 6s. 8d. to 6s. Gd. White 6x11, 9x to 8a, 3d.; 6x1, 7a, 6d. to 7a, 3d.; Arg, 6a to 8a 3d; 6xg, 4a 9d., 6xg, 4a 8d. to 4s. 4d.; 4-out weatherboards, 6s. to 6s. 3d.

KAPRI PINE - Imports: 283,127 feet auper. The only arrival since our last has been Stanley, from Kaipara, cargo of which was sold by auction on 18th inst. Sales have also been made Marie Virginia and Robin Hood, of logs, at 12s. to 10s. 6d. ; flitches, 17s. 9d. to 12s.

CEDAR. - Imports . 269,140 feet super. The arrivals have boan Nemesis, Woudource, Loura, Rodondo Konoowarra, and Cheviot, steamou, from Sydney. The only sales by auction of logs took place yesterday, when about 94 were sold at 51s. to 33s.

RED AND WHITE PINL (Colonial.)-Imports

Nil. Auction salos.—Nil.

Doors.—Imports: Nil. On 16th inst. ales by anction of American doors, ox various ships, were made: 2 ft 6 in, x 6 ft. 6 in., 12 in. d m, No 1 realizing 9a 9d, each in bond, do., Tin. do., 12s. 3d. do : 2 ft. 8 in. x 6 ft. 8 in. 1\frac{1}{2} in. do., 14s., do.; do., 1\frac{3}{2} in do., at 16s. 3d. do.; 2 ft. 10 in x 6 ft. 10 in., 1\frac{1}{2} in. do., at 18s. do.; 3 ft. x 7 ft. 19 in. do., at 20s. 3d. to 20s. do.; do., 2 in. do., at 21s. do.

LATH AND PICERTS. - Imports. Laths, 4,578 bundles: pickets, 3,953 bundles. Sales by auction have been made of Oregon laths, 42 feet, at 42s. to 41s.; 4-feet, 83s. Oregon pickets 6-feet, £0 7s. 6d.; 5-feet, £10 1 14 feet, £9 15s. to £9 7s. 6d.: spruce laths 44 feet. 41s. to 40s. Spruce pickets, 41 feet £7 10c. to £7 7s. 6d. Baltic white laths, 41-feet, 32s. fut., 4-feet, 20s.

DESTRUCTION OF FORESTS.

Sveral years ago there was great lementation over the destruction of the buffalo, until some political economist suggested that as ox required no more food than a buffalo, and that the country would be richer by hundreds of millions of dollars if the buffalo could be exterminated and their places occupied by good breeds of cattle. We remarked to a friend, recently, that the supply of good pine lumber was nearly exhausted in this country. He said he was glad to hear that was the case, for as long as the pine lumber lasted it would exclude from the market various materials that have been experimented with sufficiently to prove that they are in all respects equal to, and on many accounts auperior to lumber.

It seems more than probable that ten years after the pine lumber shall have disappeared there will be but few regrets for its loss; and that in the next century a new growth will have taken the place of the old, undisturbed by the axe of the pioneer. The history of the lumber trade may come to resomble in that respect the history of the whale oil trade. Petroleum destroyed that business, as straw-lumber, paper mache and similar manufactures are likely to destroy the lumber trade.

There can be no doubt but that the wholesale destruction of the forests in this country is doing great injury to its agricultural interests, and that it should be stopped, and particularly in the older States, where hardly any tree are left to make new forests, and where the soil is so thin that the land becomes a desort when unprotected by tree. But in unsettled portions of the country to which immigration is not attacted it is probable that the evil work out its own cure through natural causes.

Not Content With Being the Best.

Whatever may be said in regard to the propensity of the management of great railway lines to provide for the public only what is actually demanded in the way of accommodations and comfort, can in no way apply to the management of the Chicago, Rock Island & Pacific Railway, or as it is more familiarly known, 'The Great Rock Island Route." This line has for years been recognized as the best and most comfortable route between Chicago and Kansas City, and the Southwest, and has been abundantly abla on this account to successfully cope with its competitors. But not satisfied with this success and its already elegant equipment, its managers have caused to be turned ing being prices realized: Red 6x14, 10s. 6d. to out of its shops at Chicago, a magnificent line

vice on the Kansas City Line. These cars conall bedeinral-liew to esoneinewnoo adt lis nist, ing rooms, are elegant in design and finish, and models of the advanced railway art of the day. Within them meals are furnished equal to those of any first-class hotel in the land at the low rate of seventy-five cents. Travellers on this line now find on its trains all the comforts and conveniences of first-class hotels. Besides the best of first and second class coaches there are Parlor Chair Cars (which are free to all passengers holding through first-class tickets), Pullman Palace Sleeping Care and Dining Cars.

This Company's lines, all of which are equally well equipped - also extend to Council Bluffs and the West, and Minneapolis and St. Paul and the Northwest; and the deserved praises bestowed upon it by returned travellers who speak from experience, make it noted throughout the land.

We bespeak for the owners and managers of this magnificent Railway sample returns for their generous provisions for the wants of the public, which is, as has already been proven by the patronage extended to this I ine, quick to appreciate and patronize those who prove by their deeds and generous treatment that they are devoted to its comfort and welfare.

"The Journal of Progress."

We have watched with much interest the incept on of a new monthly magazine entitled Journal of Progress The Woodworker's Mag arms. It is one of the most testefully printed periodicals that we know of embellished as it is with a coloured cover, appropriate title headpiece, initial letters, handsome engravings, etc., and printed ir good type on excellent naper. The number before us contains two large, full page engravings, designed especially for this magazine, which for elaboration, finish and general excellence will be much admired-The Journal of Progress, although estensibly a woodworker's magazine, contains a great variety of matter-much of it from eminent authorssuited to readers of almost any description. Its columns headed Chips, Curious, Historical and Scientific, Literature, and Important General News, and its series of papers on "What Shall We Do With Our Boys?" by some of the most prominent writers of the day will be looked for ward to much with anticipations of pleasure. It is published by the Journal of Progress Company, 907 Arch street, Philadelphia.

Milled in the Woods.

On Friday afternoon, Jan. 11th, two young men in the employ of Mr. Little, lumberman on the St. Maurice, were felling a tree in the woods. A large branch, falling, struck one of the young men and killed him instantly. The decased, Edward Young, belonged to Three Rivers.

Is you are troubled with a "backing cough," Down's Elixir will give you relief at once. Warranted as recommended, or money refunded. Price 25c, 5th, and \$1.00 per bottle.

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WHAT THE FIGURES REVEAL-G. M. Everest, of Forest, says that in one year one family purchased over fifty bottles of Hagyard's Pector al Balsam for their own use and that of various friends. He has sold this invaluable throat and lung remedy over sixteen years, and its sales are speadily increasing.

a wock at home. \$5.00 outfit free. Pay ab solutely sure. No risk. Capital not required. Reader, if you want business at which persons of either sex, young or old, lap make great pay all the time they work, with abso, cute cortainity, write for particulars to H. Haller & Co., Portland, Maine.



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Made simply with boiling water or milk Sold in tins only (4-1b. and lb.) by Grocers, labelled thus:

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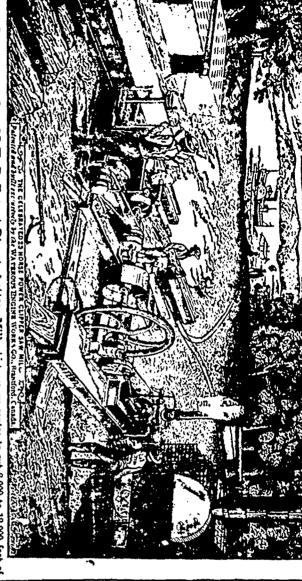
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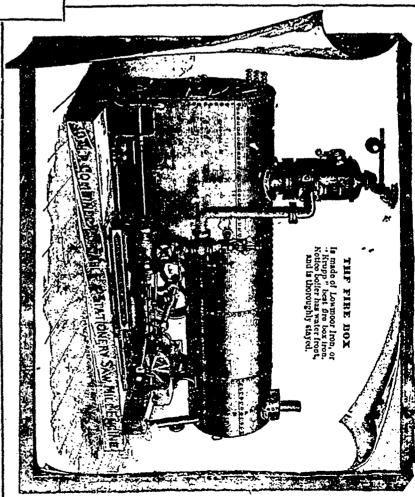
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MAGNITUDE OF OUR LUMBER MANUFACTURE

The Saginaw River is the largest lumber producing point in the world. Since 1870 the cut each season has ranged from 730,000,000 to over 1,000,000,000 foot in round numbers. The season of 1683 was in many respects unfavorable for active operations of the mills. got a late start and early in the season many heavy rains set in and continued until the first of July, causing high water, which in some instances forced the mills to suspend for weeks. The streams were flooded and log rafting checked, consequently many of the mills were delayed for want of logs and to crown the misfortune the Tittabawassee boom men struck, and log raiting was outirely suspended for a period of two weeks. There was also more or less delay for logs during the balance of the season. Under these circumstances the record of the mills, outting an acgregate of 938,675,078 feet of lum ber, is an extraordinary no, when it is consid ered that 1882 was the banner year, no untoward circumstances occurring to cause delay during the entire seson, and yet the production of 1883 only falls short of that of 1832 in round numbers about 73,000,000 feet.

MORTHERN AND NORTHWESTERN BAILWAY.

To the Editor of the Canada Lumberman.

SIR. In your issue of Dec. 15th your Toronto correspondent gives some figures to prove that this Company exacts a higher rate of freight on lumber from common points to Toronto than the Midland, and also states that the Midland Company has cancelled all shusting charges to aldings west of Bathurst street, and to Parkdale, and that the N. & N. W. Railway is the only line that insists on collecting these charges

In the first place your correspondent make the error of adding shunting charges to our rates, and deducting terminal charges from the Midland's, before making comparison.

His selection of shipping points is not fair, as in citing Midland (a Georgian Bay point) he should have shown in comparison our Penetang and Collingwood rates, which are exactly the tame, and also Georgian Bay points; and as regards the statement that we add \$2.00 per car on lumber destined for Parkdale, such a state ment could only be made on utterly incorrect information. The facts are: Parkdale being s regular billing station on the N. & N. W. Railway all lumber consigned direct to that station is, of course, delivered without any shunting charges, for at no time has shunting been charged on direct consignments. when lumber is consigned to Toronto, and we are saked to haul it back to Parkdale, surely we are justified in making a charge for so expensive m service.

Then as to the assertion that the Midland makes no charge for shunting to west end sidings. I have Mr. A. White's statement in writing before me that the Midland Railway collects shunting charges, in addition to freight. on all lumber consigned to Toronto and ordered to Parkdale, and west end sidings.

Mr. John Earls, of the Grand Trunk, also essures me that his company collects shunting for this service.

Now, as your correspondent has such accur ate information, he should be able to prove that Mossrs. White and Earls are wrong in saying their companies do make these charges, otherwise, he should withdraw his statement against this company.

Herein I give you figures showing comparison of rates on Midland and Northern, viz. :

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Press of business and absence from the city has prevented mo from replying to these strict. tures of your correspondent before.

By-tho-by, why does he exercise such extreme care to cover up his identity? Why not appear By so doing he will hear both sides of the question, and can then deal with the subject more intelligently and with some degree of cor-

> Yours truly. ROBT. KERR.

General Freight and Passenger Agent's office Northern and Northwestern Railway, Toronto. Jan. 12, 1884.

To the Editor of the Canada Lumbern

Sir,-Referring to Mr. R. Kerr's lotter dated Jan 12th,—In justice to the Northern & Northwestern railway will you kindly permit me to state that the abunting charges of this division, and also rates from competitive points are precisely similar to those of the Northern and Northwestern.

Through a misunderstanding upon the part of our late agent at Toronto some ahunting charges in that city were not collected, but accounts are now being rendered and will no doubt be duly naid

We look upon our lumber merchants' interests as being identical with our own, and try to arrange our affairs accordingly, but never through petty cuts in rates, which our best customers would be the first to condemn.

Yours respectfully, A. WHITE,

District Traille Manager, Midland Division Grand Trunk Railway, Peterborough, Jan. 19th, 1884.

Woods in their earlier staces

When the late distinguished chemist Liebig first turned his reaseaches to the benefit of agriculture, he caused some manures to be manufactured which, on his recommendation were widely applied and tested. He had de termined by analysis exactly what the crops required for their nutrition, and he had supplied by means of chemical compounds there substances in which cortain soils were defection. Confidently awaiting great results, he was much disappointed when farmers convinced him that there was no commensurate improvement. He was not a little puzzled by this unaccountable failure of theoretical science; but all ut once if dawned upon him that he had neglected the most obvious and essential precaution. He had neglected to render his compond soluble in water. Seeing that all vegetables—agricultural crops as well as trees—imbibe their nonrish ment from the ground dissolved in water, this fatal error had rendered the manures inoperative. When, however, the same ingredients were combined in a form soluble in water and applied to the soil, and the results were mos astisfactory. A similar error may be committed by the forester if he allow his wood to be come so open and defective in shade, that the noisture accumulated during the winter may be dried up early in the summer or before the end of the season of active vegetation. It is apparent how important a part moisture or water plays in vegetation. Trees will thrive almost equally well on soils of the most different geological formations, if only the condition be fulfilled that there is a sufficiency of moisture. For most trees, it matters very little what rock it is which has crumbled to form the upper soil so long as the soil is moist enough and of sufficient depth to retain moisture. The moisture showered on the forest soil during the winter months requires to be stored up and economized so as to last over the summer period of active venetation, and to this end it is necessary to keep the ground densely shaded from the sun's rays. The close order of trees producing the requisite shade also enriches the ground with more fallen leaves, giving forth in their decay an increased quantity of carbonic acid-a powerful solvent of the soil minerals. Shade prising from close order will be accompanied by a greater measure of stillness and the useful gas will not be wasted away by the wind, but remain in the covert forming watery food for

It is not altogether uncommon to see young woods in which many of the trees are crooked or forked and of a branching habit, the ground underneath them being covered with a profuse vegetation of annual weeds and grasses intermingled with such other weeds as cranberry,

the roots.

These symptoms are indications that the woods have been originated from plants two wide spart or two severely thinned, or that both these errors have been committed in their treatment. Instances may sometimes be encountered in which it is attempted to correct the multiplicity of side branches by a wholesale system of pruning. The strong development of ide branches being a sign that too much light is penetrating the covert, and that the upper canopy of foliage is not dense enough, pruning will in these respects make matters worse and favor the growth of the weeds. In forcetry on an extensive scale, where timber raising is chiefly a financial undertaxing, the pruning of young trees in the forest will be quite an ex tional operation. It may be all very wall in a park wooded for ornament and same preserving, but in a forest the area of young t so considerable, and counting several thousands of young trees per acre, that the attempt to traverse it with pruning operations will generally be hopeless. Where the attempt is made, the growing sense of the magnitude of the task is ant to induce haste and carelesaness in the execution. But all the toil and expense of pruning woods during the earlier stages of their may be very simply and effectually avoided by crowding the young trees more closely together.

As already indicated, the branching habit which pruning strives to correct as well as the tardy growth which may accompany it, arises from the too wide difference between the young trees. To the introduction of a wide and open fashion of covert several causes may have contributed in this country. In the first place the revival of forestry in Britain may be considered to date from the extensive formation of Larch plantations by the late Duke of Athol. the larch is quite an exceptional tree, and more necessitous of light and air than any other. It is by no means improbable that that the methods and rules conducing to the successful cultivation of the larch would at first be apt to obtain a general application. The being transferred to other trees would tend to perpetuate a pattern of wide separation in planting. Wide planting may have been encouraged also by the desire of saving the expensive labor of early thinnings, and by apprehension of the hughear of weakly drawn up plantations in which the wlender poles bend with their own weight. In many cases, too, the convenience of shooting causes coverts to be so originated and maintained that at no stage of their growth would there be any difficulty in freely walking through them. A further reason why there is a tendency to have young trees comparatively wider apart than is usual on the continent of Europe is to be sought for in the greater meisturn of our climate and its irregularity. Where the seasons are more regular and the summer is generally a long consecutive period of dryness and sunshine, the pressing need of storing moisture by the maintenance of thick shade in the woods is self-evident. Hence the trees are, till near the end of their career, kept close together, with close and interlacing canony, and the golden rule of aylviculture is to keep the sunshine off the ground. Our climate, with its occasionally more copious summer rains and general irregularity, rather keeps this rule to ome extent out of sight than invalidates it. Before we consistently neglect it, we shall do well to consider carefully the other disadvantages which follow where trees have spaces between them admitting sunshine to the ground.

Besides endangering the continuous supply of moisture in the event of a dry season, the sun in an onen covert will call into existence a luxuriant growth of annual and other woods. These increasa evaporation of moisture, and in terfore greatly with the formation of leafmould or humus from fallen leaves, a most valuable product which has the chief share in earithing and improving the forest soil. They also absorb a great deal of plant food, diverting nutriment to themselves, and impoverish the soil which, under a dense shade would be reserved for the sole possession and nourishment of timber.

Another disadvantage of open order with interruptions in the canopy as contrasted with openly and discuss this subject frankly with us? whorkloberry, broom brambles, or heather. full shade, will be manifested in the altered year trees three feet apart would as yet be

habit of growth thereby induced. Everyone is familiar with the difference of form between a tree grown singly in the open hold and one n amidst a mass of timber in a close covert. When the sunlight can permeate the covert to the ground, the young tree will coquire something of the isolated type. strong and numerous aide branches, because their lower foliege will be kept green by the enstrating aunlight instead of being killed by darkness and contact with near neighbors. Young trees so wide apart will not be so uniformly straight, nor will they grow so rapidly upwards, being rendered irregular and starved by a quantity of branches.

It will therefore be a safe rule to close the woods overhead against the aunlight, and that during the earliest mossible stage of ther growth. Thus the floor of the coverts may be kept tolerably bare of grass and weeds and covered chiefly with decaying leaves and black vegetable Under such conditions the lower side branches will wither and drop off of themselves, and the principal growth will be in the stem and upwards.

Some indications will be required of the scale of distances apart which would in the earlier stages of woods be sufficiently close to secure desirable results. To specify this so as to meet all circumstances exhaustively would involve many details and would be difficult. It will perhaps be a ster in the right direction, leading some way towards practical precision, to specify what is in general the most favorable distance to adopt in originating a covert artille ially by planting. An approximately correct answer to this simpler question would provide a standard distance to which other cases might he referred.

Experiments with the object of determining this point are briefly referred to in his Manual of Sylviculture, by Dr. Heyer, father of the present director of the forest faculty attached attached to the University of Munich. This manual was, twelve years ago, the standard text-book on the subject for North Germany. Quoting from imperfect recollection the test laid down was, what distance apart will in 30 years, with hardly any thinning, yield the greatest cubic contents of healthy wood. He considered it sufficiently proved that three feet apart was the most favorable distance. Very numerous and satisfactory plantations, especially of common pine, are to be seen with this scale of distance, which gives each plant the space of a square yard, and requires 4,840 plants per To plant much closer together would presumably produce after some years, such a struccie for existence amount the young trees as might be prejudical to them, or would demand a careful attention to thinning at an early peried when thinning would probably be unremunerative. At four feet apart and over, the plants would not so soun take possession of the ground by joining their branches over the growth of weeds and grasses in the clearing, nor would the trees be so numerous as to yield equal cubic contents after 80 years.

If the distance of three feet apart should sustain its advantages for plantations in this climate, as would probably be the case, a standard of distance would be furnished which would be a guide in the origination of coverts also by natural or artificial rowing. Where the seedlings in these latter came to stand much closer together it would be well to weed them out during the first five years. In case of future accidents which might reduce their numbers, it would be prudent to leave them considerably more numerous than in the pattern plantation. Where, on the contrary, there were fewer than this proportion, additions would have to be made by planting up the gaps till there were about 5,000 plants per acre.

In plantations of three feet spart maintenance operations during the first five years would be confined to the replacing of those plants which might have died, and the removal of too luxuriant and dangerous weeds. From then till their 20th year they would require little attention. Their periodical examination would probably not reveal necessity for any treatment, unless in mixed coverts the different rates of growth of different kinds of wood should ronder assistance necessary. Certainly in their tenth

unlikely to suffer much from overcrowding. They would in the 15th year after planting, if they had made good progress, form a thicket through which a man would have some difficulty in passing, the ground will be well shaded and darkoned, and the lower branches would be withering. In the 20th year the thickened stage would still continue. By this time some few of the young poles might have succumbed in the competition for light; these would be observable withered and dry under the shade of their tailer neighbors. If the growth having been very rapid the struggle is becoming very severe in the thicket, or if the dead wood should have accumulated to such an extent that it would defray the cost of its own removal, a thinning may sometimes take place in the 20th year. Or if the growth is a little less rapid the first thinning may possibly take place on the same conditions in the 25th year, limited strictly to the dead or withering wood. Planta-tions will in many cases take no harm if allowed to fight their own battle to their 13th year, and then the survivor will be straight and devoid of side branches. -N. N. on London For-

THE MECHANICAL EFFORTS OF ROOTS.

The true mechanical efforts of roots are exerted in their struggle for progress through the soil, and examples for illustratione many. To understand the magnitude of the work, we must bear in mind that each root displaces an amount of soil equal to its own bulk. Take for instance a crop of mangel wurzels, and imagine what an upheaval must have been produced in the soil by the growth of its enormous mass. The whole surface of the field is raised and its particles loosened.

In practical questions of the farm, this power is of value. Those who give turnips and mangels a place in their system of rotation, do so ostensibly for their feeding value, but beyond this, their mechanical effect is also of much importance.

The most striking results of the mechanical power of roots are seen when they come in contact with the most registing obstacles. They have been unearthed from compact gravelly soil, where the struggle for room had been so fierce that they become distorted out of all natural shape. It is not unusual to find trees growing in the clefts of lodges, showing unmistakably that the expansion of the roots has forced the rock apart. A case is cited, on good authority, of the root of a sugar maple that had pushed its way under a rock weighing nearly two tons, and by its enlargement lifted it entirely from its bed. Trees have been observed growing on the bare rock, resting upon their roots which ran out into the soil on either side, and yet these roots, supporting the enormous weight of the tree, formed each year new growth on their under side, and lifted the tree by the space of its thickness until seven inches of wood had been formed under the severe presgure.-Journal of Progress.

FORESTRY IN THE DISPUTED . TERRITORY.

A WINNIPEG correspondent says :- When the Privy Council awards the disputed territory to one province or the other, among the earliest measures to be considered should be a way of enforcing forestry laws in northwestern Ontario or southeastern Manitoba-whichever it may prove to be. The country is to a great extent so rocky that should the timber be once cleared away from its surface it will never grow again. No better chance for putting into practice the advice contained in Mr. R. W. Phipps' excellent pamphlet could well be found. The saw mill returns for Manitoba and Keewatin, up to October Slat of last year, show some 30 huge raills in operation throughout the province and Keewatin during the year. The returns show 5,465,841 feet B. M. of lumber manufactured during the year, 6,442,1.2 foot of shingles, and of lath 2,251,100 feet. Gratifying as the returns are in themselves, there is no doubt but the country is being zhorn of its timber indiscriminately, and will soon be deforested unless the milling operations are controlled. The never could be accomplished when once the wood is gone.

RBONIZING WOOD-WORK

There are many receipts for obonizing, and the following are given by Mr. Harry Hems: 1. Infuse gall-nut in vinegar, into which rusty nails have been soaked; paint the wood with this, and poluh and burnish when dry. 2. Wash the wood repeatedly with a solution of aulphate of iron, made by dissolving two ounces of sulphate in a plut of hot water. When dry, apply a hot decoction of logwood and nut-galls two or three times. When dry closu with a wet sponge and then polish, S. Brush the wood with a strong decoction of logwood chips several times. When dry give it a cost of vinegar in which rusty iron has been placed. Dissolve becavex in turpentine by setting in a warm place; apply warm with a brush, and rub it till it shines. 4. Wash with a concentrated aqueous solution of logwood several times, and then with a solution of acctate of iron of 40 deg. Repeat till a deep black is produced. Baumo. 5. Put 2 oz. of logwood chips with 11 oz. of peras in a quart of water, boil and lay on

When dry, wet the aurisco again with 2 oz. of steel filings dissolved in half a pint of vinegar. When dry again, sand-paper smooth, then oil, then fill it with powdered drop-black mixed in the filter. Work to be shoulded should be smooth and free from holes. Give it a light coat of quick drying varnish, then rab with finely pulverized pumice atons and linseed oil until very smooth. 0. Boil half a pound of logwood in two quarts of water, and add 1 oz. of verdigris and 1 oz. of copperas, stain, and put in 2 pound of rusty steel filings. With this go over the work a second time. 7. A pound of logwood boiled in four quarts of water, add two handfulls of walnut shells or peol, boil up gain, take out the chips, add a pint of vinegar, and apply boiling. Afterwards dissolve I oz. of een copperas in a quart of boiling water and apply hot. 8. First sponge the wood with a colution of chlorhydrate of aniline in water, to which a small quantity of copper chloride is added. When dry, go over again with a solution of potassium bichromate. Repeat this twice or thrice. 9. One gallon of vinegar, 1 pound of green copperss, } pound of China blue, 2 oz. of nut-gall, 2 pound extract of logwood. Boil all these over a slow fire, and add half a pint of iron-rust. Apply as usual. A good varnish for ebonized work is made by dissolving in alcohol some black wax .- Journal of Progress.

A Substitute for Mahogany

An imitation of and substitue for mahogany, useful in fine manufactures, is due to French ingenuity. The first operation is to plane the surface of any species of close-grained wood until it is perfectly smooth, and it is then rubbed with diluted nitrous acid, which propares it for the materials subsequently to be applied. These consist of one and a half ounces of dragon's blood, dissolved in a pint of spirits of wine, and one-third of that quantity of carbonate of soda, mixed together and filtered, the liquid in this state being rubbed, or rather laid upon the wood with a soft brush. The process is repeated with very little alteration, and in a short interval the wood possesses all the external appearance of mahogany.—Warren's Monthly Review.

Advice to Methers.

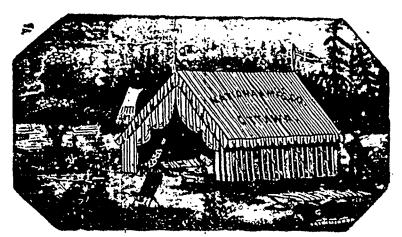
Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain and cutting teeth? If so, send at once and get a bottle of Mrs. Winslow's Soothing Syrup for children teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistuke about it. It curred yearnery and diarrhees, regulator the atomach and bowels, curres wind colic, softens the gums, reduces inflammation, and gives tone and energy to the whole system Mrs. Winslow's Soothing Syrup for children teething is picasant to the tasto, and is the perscription of one of the oldest and best female physicians and nurses in the United States, and is for sale by all drughts throughout the world. Price 25 cents a bottle.

the milling operations are controlled. The country is at that stage when a law reserving alternate strips of forest, or presenting some limits to timber alaughter could effect what

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PETERBORONGH, Ont., FEB. 1, 1884.

DEER are so plentiful around the Michigan and Wisconsin pine lands that the boys in the amps often enjoy ventson steak in spite of the

Ir is the intention to bank on the Chippowa and tributaries, in Wisconsin, not far from ::00,000,000 feet this winter, although there are not over two-thirds as many camps as last year.

MANY portable mills have been set up in the woods of Maine for the purpose of working up ane tumber blown down by the winds lost season. In unusual number of trees were thus prosented.

The Surveyors of the American & Mexican railway report that there are immense forests of edar and pine in the southeastern portion of hihuahua. The entire Sierra Madre interiors are heavily timbered.

INDICATIONS from Wisconsin point strongly to the fact that there will be no reduction in the lumber cut in that state. In fact many of the heavy lumber firms there will greatly exceed their former output.

In some of the large saw mills in the Northwestern lumber district a small apphance is attached to the trimmer, which automatically stamps the name of the company or mill on every board that passes over the machine.

The first through train to Menominee, over the Milwaukee & Northern branch, arrived January & Regular trains were to be running on January 14. This connection gives Menominee a new rail outlet for immore south and

The Muskegon lumbermen and the city treasurer are at loggerheads over the place where logs shall be assessed, the assessors laining that they should be assessed in Muskegon, and the lumbermen that they should be assessed in the township in which the logs may so at the time of assessment. It is likely to lead to protracted litigation.

A Mr Carpenter, in the Thunder Bay district north shore of Lake Superior, in Canada, is running a number of camps on Slate river, Blake township. On December 23 he had 10,000 or 12,000 feet of logs skidded, but there was not snow enough to haul them to the bank

In ten years there was to be a scarcity of timber in Canada, but certainly it has not been felt in this country as yet, nor is it likely to be so this year, when native timber is, as we have shown, cheaper than it ever was known, and our foreign supplies are on as bountiful a scale as the requirements of our trade can keep pace with.

EARLY in the spring of 1884, the Seattle, W. T., mill of the Columbia & Puget Sound Railway Company, will be sent to the Green river coal mines, while the company will build a much larger one at Seattle, the foundations for which are already driven. The new mill will be 60x100 feet, two stories high, with an engine and boiler room 40x60 feet one story. It will be owned by the Oregon Improvement Company and will so first was in every respect.

The Newmarkot Krc says:—The new automatic pall-handle borer is running nicely, putting holes through 40 handles per minute, an increase of 25 on the old method. The handles are then turned and shaped at the rate of 35 or 40 per minute. The firm is now inventing another machine to bore four holes and cut a groove in the rim of a washboard all at one time. Messrs. Cane & Son will soon have the manufacture of small woodenware down to a fine thing.

A connestondent at Roscommon writes that since the good sleighing set in many lumbermen have begun creeting camps who thought they would not lumber this winter, and will put in a large amount of logs. Parties are also heavily engaged all along the railroad from Bay City to Mackinae in gotting out ties, posts, tolegraph poles, Toop poles, cedar for paving, hardwood and hemlock bark. Take it all around, this is likely to be as good a winter for lumbering as lest winter.

THE Lumberman's Gazette says:—The weather for the past week has been propitious for logging operations, both in Michigan and Wisconsin. The snow is abundant for hauling purposes, and the logs are being banked with wonderful rapidity. The vast amount of logs which had been previously put on the skids will keep the logging roads lively for some time to come, and the probability is that during the last week in December and the two succeeding weeks, the first in the new year, there will be more logs banked in both these pine producing states than has over been known in the same time during the history of the business.

The first person who attempted to submit wood to distillation for the purpose of obtaining gas and other products, was Philip Lebon, near the close of the last contury: and in 1799 he took out a French patent for methods of using combustibles with greater economy, as well for heat as for light, and collecting the different products. Three years later he obtained the use of a part of the Rouvray forest, near Havre, for the manufacture of tar, engaging to deliver five quintals, about 1,100 pounds a day, and with apparatus of large dimensions he was able to supply a notable quantity of tar for the French Marine. He died in Paris in 1804, and the business was continued to 1811.

PREE LUMBER.

The strongest characteristic of the New York Sun is persistence. Whenever it takes hold of a subject it never lets go till it is squeezed dry. Last year the Sun was the leading advocate of placing lumber on the free list. The movement was very properly killed in Congress. Since Congress re-assembled that paper has again taken up the cudgel in favor of "free lumber" and has been hammering away at it since at the rate of one to two columns daily.

The usual routine was followed. First, an see the very small proportion of a tree that is alarming editorial appeared concerning the dereally utilized as a paying product, we are led to vastation of the Adirondack forests situated in inquire, why can't this waste be utilized? The

the Northern part of the State. Not that the devastation flooded the New York markets with lumber, but because the destruction dis turbed their fluvial functions and threatthe water supply of the Hudson river and othe streams. Then followed leaders on "The Flow of Rivers;" "The Forests of the United States," and so forth till the object in view was reached-"Free Lumber." As to the purchase by the state of the Adirondack forests, to proserve them, we have nothing to say, further than to wish the scheme the fullest success; but when the press of New York ask that they be preserved by removing the duty from lumber and thus placing the forests of Canada in direct competition with those of the South we carnestly protest.

It is well known that vast sums of money have lately been invested in Southern pine land purchased from the Government. It is also well known that the \$2 per 1,000 feet tariff paid on Canada lumber does not prevent it from being brought into competition in New York markets with lumber from Southern forests. Our woods bring little enough now in Eastern markets. To further embarass the trade with free lumber would be unjust and a species of bad faith on the part of the government after so recently disposing of millions of acres of pine lands.

The people of Maine, Michigan and Wisconsin, who are next door neighbor, of Canada, probably understand this matter better than the thirsty editors of New York city, and it was due to the representatives of those States that the move for free lumber was killed in the last Congress. The lumber business of the South is just assuming creditable proportions and needs other atimulus than competition with foreign forests, and we hope the representatives from the timber States of the South will take an active step in seeing that the duty on lumber is not removed. To do so would seriously embarass those who have already invested in mills and lands, and retard large investments already in contemplation.—New Orleans American Lumberman.

THE U. S. DUTY ON LUMBER.

The Detroit Fret Press says :- If, as some of the lumbermen claim, the removal of the tariff on lumber will not effect prices, because, as they say, lumber is now sold more cheaply than Oanadian lumber can be laid down in the states, there is no reason why they should object to a reduction or removal of the duty. On the other hand, if it will reduce prices, it can only do so by stimulating the destruction of the Canadian forests. If this should be the case, the result e to give more employment to the men who wield the axe and do the laborious work. It would perhaps keep some of the Canadians at home who now annually come to Michigan during the logging season, and if they are provident take out of this country the not proceeds of their work. This would diminish the supply of working lumbermen in Michigan, and by the necessity of the case increase the rate of wages. which, in spite of all the fine talk we sometimes hear, is now so low that a Michigan worker in the woods who has a family to support finds it hard work to make a decent living.

As consumers would not be detrimentally affected by a reduction of the duty on lumber and as wage workers could not nossibly be, the only question to be considered is whether the millionsire lumber kings would suffer the direst disaster if their profits were, by any possibility, slightly reduced. Let any one examine a list of the very wealthy men of Michigan, and he will be struck with the great proportion of them who have made their lortunes in lumber and pine lands. They always obtained the highest prices they could for their land and commodities, and hired their labor as cheaply as they could get it. Their fortunes were not made by wickling the axe or skidding logs at \$16 a month and board.

WOOD WASTES.

As we see the forests annually shorn of their monarchs, the question naturally arises, what will take the place of timber? Again as we see the very small proportion of a tree that is really utilized as a paying product, we are led to incuire, why can't this waste be utilized? The

question of grinding up and making artifical wood is tou expensive, and the best thing that can be done is to submit this residue or waste to some process by which the preservative qualities can be extracted and be used to preserve the timber or lumber used for building fonces, furniture, etc. We are informed that the process of doing this is not expensive or intricate, that it effectually preserves wood from decay for an indefinite period, and hence is very profitable. We are informed that one company engaged in this business who pay \$3 per cord for what in many locations south is thrown away, pay a semi-annual dividend of over 80 per cent.

If this be true why not have the subject discussed by those acquainted with the processes? We have fences, houses, railroads, and other erections going up all the while, and if northern brains were coupled with their money southern grit and push, this could be made agreat industry. If those living in localities about here where wood is plentiful and cheap, will take the trouble to investigate, they will experienc no trouble in finding parties who know all the secrets and have ample capital to push it. People north say that people south have a peculiar faculty of keeping hid many of the facilities which they possess in sufficient number to enable them to complete success fully with some kindred enterprise cast and north; as proof of which look at our iron and coal a few years ago and compare with the development of to-day .- L, D. Foutz, in Nashville Artizan.

CANADIAN COAL. The last two or three years have witnessed a

decided increase in the production of coal in Canada. Not only has the home consumption been fed more largely, but the quantity exported grow from 219,536 tons in 1877, to 421,311 tons in the fiscal year 1881. The produce of the coal mines of Nova Scotia during the first three quarters of 1883, amounted to 1,078,990 ous, an increase over the same period of the previous year of 97,463 tons. Sales during during the same period aggregated 996,060 tons, an increase of 93,137 tons. At the port of Sydney, C. B., the quantity exported rose from 128,000 tons five years ago, to 313,000 tons last year; while this year, up to the end of October, the shipments of coal from Sydney reached 488,000 tons; allowing for the probable shipments of the two remaining months of 1833, it is likely that 500,000 to 550,000 tons of coal have left that harbor during the year just closed more than half of it going up the St. Lawrence. Then at Fictou the coal shipments have increased in a decided degree. We need not stop here to consider in detail the benefits this activity confers, upon the port and neighboring country, though these cannot be overlooked by any observer. But we will only remark that the shipping of Picton has felt an undoubted impetus; and as for North Sydney, the arrivals of shipping up to the 1st of November, were 1,151 in number, compared with 896 in the same period of the preceding year: the townsge of these was 520,000 tons, where the tonnage of the port in the whole year 1879, did not reach 250,000 tons. The mines give direct employment to about 1,500 hands. These are figures which speak for themselves.

The foreign market usually takes from three hundred to four hundred thousand tons of coal. Newfoundland took last year 57,004 tons : the United States 105,943 tons: the West Indies, 19,307 tons Nova Scotia coal. China, the Sandwich Islands and California took their Canadian coal from British Columbia. This year probably 30,000 tons have gone to the United States from Cape Breton, mostly of fine sea coal, for a large part of the coal beds thereabout are under the Atlantic. Further developments of this important trade are being made. For example, The General Mining Association is about opening a new mine at Low Point; and will build an extensive pier at Sydney Harbor, which will be made their shipping point, instead of Lingan. Montreal capital is understood to be extensively used in the operations which are to develop that part of the Island of Cape Breton, and there, is every indication that the coal interests of the Dominion are among the most promising, as they unquestionably are among the most immediately prosperous. Some

harm was done, perhaps, rather than good, by the pretty or ensive shipments made by Beard, of Montreal, who bought Care Breton coal for cash and shipped it to Montreal, where he glutted the market. Another Cape Broton colliery is that of the International Coal Missing Company, at Bridgeport, which put out in 1832 we are told, 110,000 tons, it employs 300

At Stellarton, the output of coal was 141,090 tons last year, and the manufacture of coke amounted to 12,512 tons. Pictou and New Glasgow have various colleres, and employ miners by the hundred. The mines, near the Bay of Fundy, now owned by the Cumberland Coal and Railway Co., and known as the Springhill Mines, employ 600 hands, and put out from a quarter of a million tons upward per year,-Mondary Times.

CHOPPING DOWN A TREE.

The Boston Trunscript says that the chopper works upon one bended knee. Before beginning to cut, he has looked to see which way the tree is inclined. For this he steps back a short distance to where he can see to its very top. If he is in doubt he lifts his axe by the end of the helve and lets it hang freely suspended. gives him a plumb-line by which he measures the inclination of the tree. But it is not enough to determine in what direction the tree will fall most readily. It may be that large trees are standing right in the way of its falling on that side, and against these the tree will be ledged. It must be carried to the one side or the other, and herein consists one of the mysteries of wood-craft—the skill to guide a tree in its fall. He will direct it with the greatest ease. Having decided where he wants it to go to avoid the risk of lodging against other trees, or of being broken by falling on uneven ground, or to have it lie so that the logs will be convenient for removal, the chopper first undercuts the treethat is, he cuts upon the side towards which he will have it fall, and in such a mannor that the line of the kerf shall be exactly at right angles with the line along which the tree is to lie. If the tree stands nearly perpendicular, and has no inclination to fall as he wishes, the chopper cuts a little beyond the heart on that side. By doing this he removes the base when the tree is ready to fall, and rests upon a base of but an inch or two in breadth, so much from the centre of the stump. The effect of this will be very great in moving the base so that the centre of gravity will be on the side desired. Though he works in a cramped posture, the chopper cuts the stump so level and so smooth he thinke his little boy

could spin his top upon it. Having undercut the tree with the greatest care, the woodman now changes his position a little, but remains on the same side, rests on his other knee, and shifts his hands, that is, wields the axe with the other hand forward. He now cuts upon the other side, leaving the stump two or three inches higher according as he wishes to gain advantage for the last few strokes. The workgoes on with little concern until the base is no thicker than a plank, and quite as even; then a blow is simed full at the centre, and the chopper looks quickly at the top to note the effect. If he perceives a tremor in the trunk, or if a bit of bark or moss is loosened from its hold, he knows now every stroke will tell, and he aims them with the greatest precision. Soon as ever the top bows to its fall he works the direction in which it is moving.

If he wishes to bring it more toward him, he strikes a blow upon the farther edge, if to carry it farther from him, the blow is given the side that is nearer. These last strokes need to be given with great nicety. If feeblo, they will fail to effect their purpose; if of too great force, the tree will be severed from the ustmp upon that side, and then all centrol of it. is lost at onco, and it plunges blindly forward. A tall tree like the pine is broken from the stump by a force acting quite differently from I that which is applied in the case of shorter Attrees. In its descent the pine acquires at its top a centrifugal force so powerful as to lift the tree from the stump and carry it forward five or six feet before it reaches the ground. When it does come to the earth the top and the butt strike at the same time, and the tree lies half buried in the mow

BOARD OF TRADE BETURNS.

The following are the returns issued by the Board of Trade, for the month of Dec., and for the first twelve months of the year:молти ихрад 30ти нот., 1883.

#0,114 #M0#D 00174 1.4.17	
Quant Timber (Heirn) Logi	ity. Valus. U E
Timber (Heurs). Loss Russia 11,0	kg 25,147
Ruma	21,111
Sweden and Norway 89,6	48 61,050
Germany 22,5	sho 52,889
United States 0,4	04 80,160
British India 1	,231 19,560
British North America 24,0	56 114,830
Other Countries 40,1	237 68,633
Total145,	83 857,164
Timber (Saum or Split,	
Russia 40	547 102,81
Bweden and Norway 74,	179 178,04
British North America 62,	808 159,05
Other Countries 18,	23 0 51,411
Total198	870 491,33
Staves, (all sizes) 8,	
Mahogany (tone) 2,	018 17,87
Total of Hewn and Sawn \$44,	853 848,49
THEFAR MONAHS ENDED SING DEC	, 1883.
Timber (Heum).	
Russia	490 858,67
Sweden and Norway	041 WH,88

Russia230,490	858,67
Bweden and Norway630,041	904,86
Germany	890,12
United States	483,76
British India 41,531	597,71
British North America36,184	1,603,07
Other Countries892,881	525,66
Total	6,599,78
Timber (Saum or Split,	

	Russia
;	Sweden and Norway
•	British North America 1,181,608 8,010,218
•	British North America 1,181,605 8,010,218 Other Countries 339,881 1,085,705
0	Total
ζ	Staves (all sizes)
•	Mahogany (tons)
	Total of Hewn and Sawn

SINGERS and public speakers are always bene fitted by using Down's Ellxir, as it removes the honmeness and increases the power of the voice, Take small doses often. Price, 25c, 50c, and \$1.00

NARROW CHANCE OF ESCAPE.-A person exposed to the sudden changes of our northern climate has little chance of escaping from colds, sore threat, rhumatism, frost blos, and other troubles incident to change of temperature, to say nothing of accidents and emergencies. The heat external and internal ready remedy is Hagyan's' Yellow Oil.

FOR SALE!

At OWEN SOUND,

Two Hundred Thousand Feet of Lumber.

Composed of about 50,000 clear, balance flooring, bill stuff (long), stocks, common.

Also, a stock mill-run, mill culls out, from

A Million to Million and a Half of Lumber, and Two Million Shingles Pine and Cedar. AFFor sale at TORER-

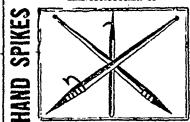
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H. RIXON & Co.

5

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HIGHEST AWARDS IN CANADA and U.S. OHAUDIERE, OTTAWA.

OILERS

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Locomotive Type, about 70 Horse Power, Lowmoor Fire Boxes, Steel Barrels.

Canadian Locomotive & Engine Co., Limited, Kingston, Ont.

100 COILS

3 TONS EXTRA

BYOT A

Best Proyed Boom Chain

i, 9-16 and inch. At the very lowest figures.

Gandy Cotton Belting

Dynamite, Detonators, Platum Fuse and Safety Fuse, always on hand. Large Orders Dalivered From

Stoel and Hardware, both Heavy and Shelf, for Lumbermen and Mill Owners.

GEORGE STETHER

PETERBOROUGH.



ST. LAWRENCE CANALS

Notice to Contractors.

SEALED TENDERS, addressed to the undersigned

CEALED TENDERS, addressed to the undersigned and endorsed "Tender for St. Lawrence Canals." will be received at this office until the arrival of the eastern and western malls on TUESDAY, the 12th day of February next, for the construction of a lock and regulating weir for the depending and enlargement of the upper entrance of the Cornwall Canal.

Also for the construction of a lock, together with the enlargement and deepening of the upper entrance of the Canal, or middle division of the Williamsburg Canals, and the deepening, d.c., of the channel at the upper entrance of the Galops Canal.

A map of the head or upper entrance of the Galops Canal.

A map of the head or upper entrance of the Cornwall Canal and the upper entrance of the Galops Canal.

Canal, together with plans and specifications of the respective works, can be seen at the Resident Engineer's office, Dickinson's Landing; and for the works at the head of the Galops Canal, at the Lock Resper's house near the place, and in each case plans, ac., can be seen at this office on and after Thready, the 20th day of Jannery, inst., where printed Forms of Tender can be off fined.

Contrabol's are in thy informed that trial plits have been tank on the CORNWALL and RAPIDE FLAT sections of the works, and they are requested to bear in mind that tenders will not be considered unless made strictly in accordance with the protect for man be accompanied by a letter stating that the person or persons tendering have carefully examined the locality, and the nature of the material found in the trial plit, &c.

In the case of firms there must be attached the setual signature, the nature of the material found in the trial plit, &c.

In the case of firms there must be attached the setual signature, the nature of the depending, &c., at the head of the Galops canal must also be accompanied by a bank deposit receipt for the sum of \$1,000. The tenders for the Repide Plat works must be accompanied by a bank deposit receipt for the sum of \$3,000. The tenders for the depening, &c.,

Dept. of Railways and Canals,) Ottaws, 21st, January, 1884.

E. S. VINDIN.

Commission, Shipping, Forwarding and General Agent.

LUMBER MERCHANT Office, Tempost's Block, Port Hope. 111

PRITCHARD & MINGARD GENERAL ENGRAVERS.

Stenoil Plates, Steel Stamps. Rubber Stamps, &o., OTTAWA, - ONTARIO.

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Pine & Hardwood Lumber

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Shingles, Doors, Sash, Flooring, &c.,

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Specialties—"Darling" Axes, Saws, Outlery, "Black Diamond" Files.

 ${f HARDWARE}$

TO LEASE.

THE UNDERSIONED having largely extended their raceway at Lakefield, are destrous of corresponding with parties who wish to go into manufacturing, and they are prepared to sell or lease water power on the most favorable terms, or would creet buildings of any size suitable for factories.

R. & G. STRICKLAND

LAKEFIELD, ONT.

SAW MILL MACHINERY

FOR SALE.

STEEL AND IRON

Slabbing and Stock Gang Gates

WITH OSCILLATING MOTION, ALSO,-

iron pitmans, fly wheels, Driving Pulleys, and other Saw

Mill Machinery, In Good Order, which has been taken out of Mills that have been closed. Address,

The RATHBUN COMPANY,

DESERONTO.

AGENT Swanted for The Lives of all the Presidents of the U. S. The largest, handsomest, beat book ever sold for less than twice our priod. The fastest selling book in America. Immense profits to agenta. All intelligent people want it. Any one can become a successful agent. Terms froe. Hallett Book Co., Portland Maine.

THE EWART LINK BELT.

We give our readers an admirable illustration of Ewart Detachable Link Belt as applied to live rollers and continuous conveyors in a sawmill, operating with great case and economy by automatic labor saving machinery from the saw log to the manufactured lumber, &a., and to the removal of the sawdust and other refuse. The cut and the references by figure and letter to the various details give so clear an idea of the mode of application that no long description is required. One great advantage which this link delting possesses is its at aptability for use in desire to carry out the suggestions here made,

would soon be destroyed. Even in other cases there is greater strongth and less wear and tear, and there is less loss of power by friction. Its mechanical fitness for application to sawmili requirements is also obvious. It is made of refined malleable iron and is carofully tested to two-and-abalf times its tabulated working strain.

The sole manufacturers of this belting in the Dominion, are the Waterous Engine Works Company, of Brantford, Outares, who was be happy to afford any further in it odu, osodi of toplets of an autam are onto planting the object attention al il can brita into those mic a. They are atready used in many leading establishments.

PLANTING AN OAK GROVE

It is not such a difficult matter to raise an oak grove if one has the patience to walt for it. Oak trees will grow as readily from acorns as apple trees will from seed if only the precautions are observed. An immonse fortune a nuts the u an who will not out 160 acres to the white oak, and carefully attend to it for a series of years; for this kind of timber when soull, is in constant demand by colors, by railroads for ties when larger, and by wagon and agricultural imploment manufacturore when grown. An acre of ground contains 43,650 feet of land. Planted to accome in rows three feet apart and one foot in the row and it would give 14,536 trees to the acre, or 3,-325,760 trees to the quarter section. Supposing now this amount was divided by two, to cover losses, and it leaves the respectable sum of 1.162.880 trees on the 160 acres. When of a suitable size, two thirds of the trees, or 775,000 night be cut for hop poles at, say So per thousand, or over \$40,006. The romander, 357,000, it allowed to grow unit they were large enough for ratificial ties, would be worth \$75,000 muss, to say nothing of the balance for fire wood, which would be no more. siderable sum. If a partion only of them were cut out and the balance allowed to grow into a corest of large troes, their value for tumber would be a furture to the happy a ossessor.

The above may seem visionary and probably to a large extent is but it is certain that if one has the patience to start the grove and will give it proper care, and can afford to hide his time for the trees to grow, that there is a fortupe awaiting him Some years ago we had a talk with a prominent railroad builder on this subject, and he declared it as his belief "tnat land could not be put to more profitable use than in growing a forest of cake for railroad ties." Taking the poles the form rood and the ties together, it would not require a life time to wait for the beginning of an income. In the old world the planting of oak forests is a branch of governmental work. It has been found that the tree

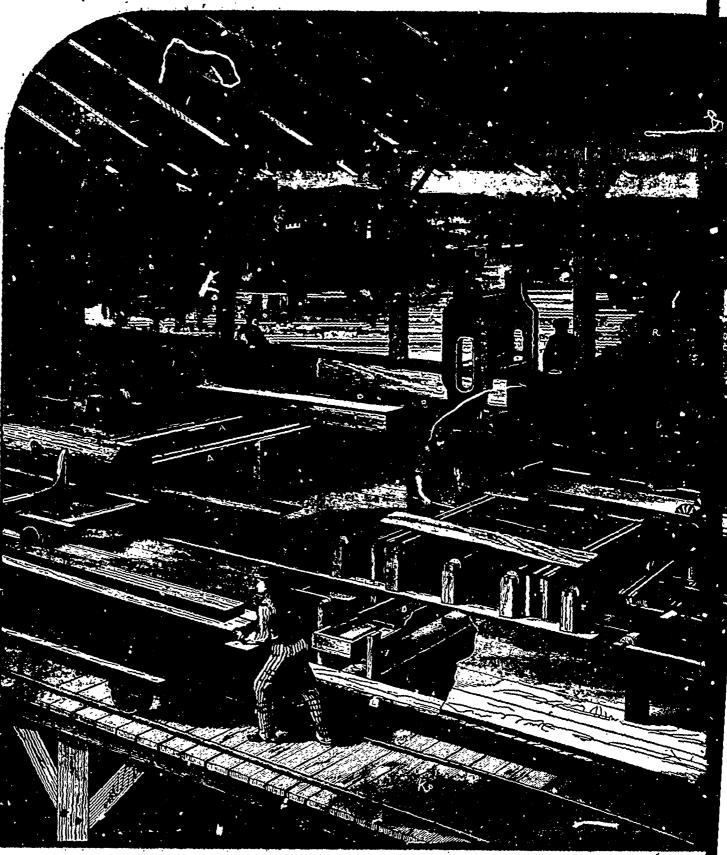
requires a leep and himld soil to come to its full development. If it be sandy with some clay mixed to, the better. The cak has a tap root which permeates deeply in the sub-soil, and if the latter be hard the tree languished and never attains much size. The soil should be at least three foot deep, and the richer it is and the faster the tree grows, the tougher and more valuable the timber. Hence, cultivation is of value in its propagation not only for promoting growth, but also for increasing its toughness and elasticity.

Should any of our readers be seized with a either wet or hot situations, where other belting here are a few points that may be of value, will aprout without delay."

Gather the acorns in October, or at a time when them to a cool place to dry and rake over daily until the demoness is off. Whether it is better for a season would decide this. If kept over till spring, the following mathed is recommended by the feresters of France.

Place in a dry spot in piles three feet high. cover a foot deep with dry leaves; over this a half a foot of dry moss, and over this alhalf a foot of long straw, capping the apex to keep out the water. Plant in the spring, and they

The young seedlings should not be disturbed they begin to fall of their own accord. Take the first year, as the tender rootlets are very sensitive, though of course the weeds must be kept down with the hoe. The second year they to plant in the fall or spring we cannot say, but can be cultivated some, and the third year either course is pursued. A little experimenting thoroughly so. In regard to the time required to grow the trees we have no data. The oak will grow much faster, however, than one might imagine, if it be properly cultivated. We have on our grounds, in Minneapolis, nearly 100 young white, black and burr cake, the bulk of them being of the first named veriety. No data has ever been made regarding their growth, but trees that were not more than two or three inches through nine years ago are now some of



THE EWART LINK-BELT FOR IMPROV

- 1.-Baul-up Works for hauling loss to circular saw.
- 2.—Continuous ranning rolls for convoying slabs.
 3.—Dead rolls for receiving outside slabs.
- 4.—Half rotary chains for moving siabs interally to slab-cutting table.
- 5. -Siab-cutting table.
- -Slab and refuse conveyer.
- 7.—Continuous running chains, for moving second or third-out slabs.

 laterally to the edger rolls.
- 8.—Edger Rolls,
- 9.-Lath longth cutting table.
- A.-Heavy chain trucks for moving the squared log to gang rolls
- R .- Gang rolls
- -Gady of same.
- D.-Live rolls for convoying the boards from the gang to the trinimer

them six inches, and that, too, without any cultivation whatever. A clump of nearly 50 of them which made an open kind of shade at first is now in summer time a thick grove, though which the sun can scarcely penetrate. At a rough guess, we should say that in ten years, with cultivation, the trees might be large enough to sell for boop poles, while it might take fifteen more for them to be ready for railroad tice. A few acros might be set out each year for as long a period as the person ex-

where one could procure plenty of seed .- Minneapolis Tribune

EVERYTHING AT SECOND-HAND.

"This business is fifty years old," said a New York dealer in second-hand material. "We shoroughly seasoned We supply the lumber down crosses, alters, candicaticks, talk, mounoccupy nearly 40 city lote. They are covered (for about all the swell manalene. Every piece with second-hand building material. We can of timber in Vanderbilt's mansion came from supply brick for interior walls, or granite this yard. When men put thousands of dillars columns for ornamental high stoops or portioos. Into freeces they want to be certain there will It is already for use, and it is of known quality, be no shrinking in the timber of thus perimenting wished to try it. Acoms can be We have thousands of feet of timber and housesfound almost anywhere through southeastern lumber of various kinds. Every kind of lum-Minnesota, but there are, perhaps, as fine large | ber used in building a house can be found here, |ings, do you " cake in the vicinity of Albert Lea as any place, joists studding, rafters, and roof boards. The

roof itself can be had too. Tin deteriorates some, but slates do not so much We can supply a tin roof that is as good as it was the day it was laid. We have several cords of sistes. Our lumber is better than new. It le

"You do not confine your attention to dwell

neighboring village who came hero. He said he guresed he had got an order that it would puzzle us to fill. He wanted a second-hand pulpit. He was astonished when I showed hir. a complete outfit. We had stained glass wining benches, a sprinkling bowl and a baptistry. I showed him a full assortment of powe for the body of the church. Then I offered him a second hand stoople with a boll complete, and all set up. He bought a pulpit and paid for it in silence. He was so astonished he couldn't talk. We have everything necessary to fit out either a mansion on 5th avenue or a shanty for

> cost \$500 each when new. They are as good now as then. You can almost see through them they are so clear, and the carving is exquisite. Then we have mentels in various kinds of colored marble, and two in Mexican oney that are beautiful. Booth's Theater is now making its way here piecemeal Here is a deak that was made in the time of Queens Elizabeth

"How worth of a business is it?" "Ours is not the integrand Last year we said \$38 day wath a fire we'd from the asto, and the total sales amounted to a little more than \$20,000. We used to give the kindling wood away. Now it keeps a good many teams going especially in the winter. We have 317 men on the pay roll. Their pay is high. It takes as great skill to take fine work out of a house as to put it in," New York Sun.

A Swedish Match Paciety.

At Jonkoping, Sweden, is the oldcat and largest match factory in the world. It was established 100 years ago, and there are now to be seen specimens of the matches used at the beginning of the present century, consisting of big fagots of wood furnished with a handle and a tip to dip in a bath of sulphur. The wood from which the present kind of matches is made is taken from the adjacent forests, which are divided into fifty sections. Every year one section is cut and then replanted with young trees. The trees are hewed into planks in the forest and cut into elivers in the factory. The boxes are made of the outside of the tress. The factories are on the hanks of the lakes which are co nected with one another by wide canala Millions of matches are turned out each day. Some idea of where they all g to may be obtainor from the statement that there are at least 280,000,000 of matches burned each day in the United States I an average of five diatches for each person

CHRISTMAN in England has interfored more with the dock deliverses tout it did last year, for there was a smaller quantity by 278 standards of sawn and planed word, and more than fitt had shurt of hour timber last week, as compared with Christ mas week of 1882. Whether buil ness was less brink, or its followers a little more inclined to jolity, it is hard to say. But if the arrests are made up next week, or the week after, we shall be inclined to ascribe it to the latter cause, and that their holiday being over men have return ed to their arocations with renewed energy and a determination to make up by close application to business the time they have lost.

SUBSCRIBE at once for the CANADA LUMBERMAN.



IMPROV EVATING AND CONVEYING MACHINERY.

- -Trimmer table, for cutting off imperfect ends to requisite length.
- F. Carriage for edged boards when ready for crimmer.
- -Rollers for receiving boards from trimmer, -Lateral chains for conveying boards to car
- -Elevated track for board car
- -Where berrel stave and lath lengths are selected and taken from sinb-conveyer,
- M .- Refuse burner.
- -Counterdust conveyer from circular saw, discharging sawdust into MEIN CONVOYOR.
- -Main sawdust conveyer, ruuning to boilers.
- -Receptable for refuse, bark, &c.
- R -Appliances for loading logs from water on cars

Market Reports.

From Our Our Correspondent

Jan. 25.—Thorn is nothing now to report in the state of the market, which has been quiet and in favor of large buyers. Business on the whole has not been satisfactory either at home or abroad, and some are endeavoring to create the idea of their being a very considerable shortage in the manufacture this year imports by rail are coming to hand slowly, owing to heavy snow storms blocking up the roads. Laths are still scarce and retail lots bring our outside figure. We quote yard prices as follows CORDWOOD.

The demand, notwithstanding the continued very cold weather, has not been brisk. The higher rates of railway freight have not as yet affected prices, but it has had the effect of lessening the supplies. There is not much wood getting out at present as the roads in the country are blocked up with snow, and it is not expected that much will be done till a thaw comes meantime our prices are firm but unchanged, We quote at the wharves ex cartage:

 Long Maple
 \$ 0 50

 Short
 6 00

 Long Birch
 5 00

 Long Beech
 5 00

 Tamarack
 5 50

LIVERPOOL MARKETS.

Our mail advices up to the 1st inst. call busi ness quiet, but not more so than usual at this The stocks of Canadian lumber there 86250D. on the 31st of Dec. were as follows.

	19	32.	1893.
Quebec square pine	222	.000	459,000
" waney pine	.275	000	349,000
Other portanine	CO.	.000	90,060
Pitch plno hewn	.029	.000	305,000
** ************************************	·ww	~~	~~.~~
Consilian and Nova Scotia cak	.335	.000	330,000
Oakjulank	.104	000	182,000
Quebec deals	8	432	3,459

Private sales of spruce deals were reported at £6 15s. for St. John and £6 10s. for lower port, and by suction at £6 14s. 9d. for Dal-

TORONTO.

From Our Own Correspondent.

Jan, 23.—The long continued severe frost combined with a great depth of snow, prevents any attempt at building, so that trade is completely at a standstill. About twelve cars of lumber per day is all that has come into this city by rail during the past two weeks, and part of that intended for use on the harbour improvements going on. The large quantities of cordwood and slabs coming in serves in some measure, however, to keep the railway companies rolling stock partially employed. A few cars daily of last season's accumulation in the yards here are being worked off to western points, and if the railway companies would grant liberal rates from the mills to western points limited shipments might be made during the winter months. The N. & N. W. Company have offered some slight concessions from places where the water routes come into competition with them during the navigable season, but that is useless; lumber at such favorable points for shipment will remain there until the opening of the spring. Through their own cupidity they have lost this trade, and it will require innehereater concessions than those new offered to regain control of that trade. Lumi .men feel much annoyed at the constant changes and innovations discriminating against their business here. Since the first of this year the G. T. R. Company assumed entire control of the Midland ailway, and the first change made was to shift the agents office to a small hole and corner affair down at the Don, where it is highly dangerous to life and limb to attempt to go and On the Kippowa limits the number of shantice.

transact business, and for the fourth time during the last twelve mouths a fresh agent has been appointed; this seems to be a favorite plan of the company in question, just as soon as the agent has got to understand the wants of the lumberman and a cordial state of feeling existing between them the connection is suddealy severed. Lumbermen have been given to understand that Mr. White retains all the power he formerly held in the management of the Midland system, if this is the case they would like to see him and explain in person some of the grievances under which they labor, and if he has not the same control which he formerly held we fear his mantle has fallen on unworthy shoulders.

The M. & N. W. Railway Company bave

introduced another innovation, or, as they call it, fresh rules from the board. It has been the custom hitherto when any dealer had incurred the penalty of demurrage through the detention of a car from any cause whatsoever, to go to the local freight agent and place their plea before him, and if through stress of weather or other causes which often arise to prevent the prompt unloading of cars the agent used his own discretion in remitting the penalty, but now under the fresh rules it must be paid and the case presented before the board of directors for a judication. O, ye Gods, picture to yourself the grave spectacle of a board of railway directors sitting in solemn conclute over the momentus question: Shall we split this two dollar bill, keeping one-half ourselves or as we have it in possession shall we keep the whole. The latter feeling I imagine most likely to prodominate. It is now in fact got to be absolutely considered a rash act for a dealer to be guilty of winking if standing near one of his own cars of lumber, for fear any of the railway officials may notice him and construe it into an unwarranted act of jubilation at having got the better of the company in some shape on that particu lar car of lumber, but the day of retaliation is surely at hand; 1883 shows a falling off of nearly 20,000,000 feet from that of 1882; and that in a traffic which has hitherto given them over 40 per cent. of their total freight earnings. The time is coming rapidly when they will be glad to cultivate a trade which up to the present time they have burdened with heavy restric-

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OTTAWA. From Our Own Correspondent.

JAN. 24.-The lumbormen of the Ottawn ralloy are not carrying on such shantying oper ations this season as in the past four or five years. They have had a very favorable winter but are alraid of next year's demand. There is a large quantity of square tumber and logs in market at present, little of last year's cut having been disposed of during the past summer and fall. Very few new shantles have been pened on the tributaries. Labor is compara tively cheap, but the demand has been long ago antisfied. A prominent lumberman has informed your correspondent that the total cut this winter will not amount to much more than a half of that of last season. This will have the effect of bringing the market into a steady condition. Allan Grant, one of the prominent merchants, who took out seven raits of square tumber last year, will not have one this year.

is not increased and a few are not in operation. Gilmour Bros. have two; A. Grant two; Booth & Gordon two; O. Latour one; D. Moore one; Sherman, Lord & Hurdman three; Edwards & Co. two; J. & B. Grier one; the latter is taking out square timber solely, and all the preceding ones are taking out logs and one or wo square timber.

As regards the stock on hand in the yards here it is fast reducing, although yet pretty large. The demand is somewhat dull. Within the past year the facilities for shipping have increased to a large extent owing to the exten sion of the O. A. R. into the lumbering district. Competition is keen between this Company and the O.P. R. on American shipments, and the rates have been reduced considerably. A large quantity of lumber is at present being shipped by rail. Noxt apring will witness a lively time between the boats and the railway Companies in their competition for freight. The leading boating companies seem confident of securing their usual share, and even have added consider ably to their fleets. They expect to compete successfully with the roads, and; furthermore they claim they will be able to reduce the rates to such an extent as to make it unpleasant for the railway companies.

Within the past few years a large number of foreign dealers have appointed permanent rep-The Sheppard resentatives or agents here. Morse Co., of the United States, is about the largest buying firm hero. The head officers of of the Company arrived in the city to-day, and are negotiating for next year's stocks.

. Fow measures affecting the lumber industry have been entered for consideration at the resent session. In connection with the report of the Minister of Public Works, laid on the table a few days ago, there was an appendix to it submitted by the Chief Engineer of the Dcpartment, referring to the proposed improve ments on the Upper Ottawa river in the interest of the lumbering trade of this district. The works asked for are of two different distinct objects. They are as follows :-

1. To increase the length of navigable waters above the confluence of the Mattawa, by placing a dam at the head of the Mountain Rapids, and thus to obliterate the Long Sault and create comparatively still water extending to the head of Lake Temiscomingue, a distance of say 90 miles, and for some miles as well up the Riviere Blanche, thus bringing navigation by stormers to a point within twelve miles of the U. P. R. at Mattawa

2. To place a dam at the foot of Lake Temis camingue for the purpose of raising the water in the lake to a certain height (to Le hereafter determined) above its normal level, with the object of holding such water until the occurrence of the period when that in the Ottawa, at any point in its course to the Chandiere Falls, has fallen so low as to impede or prevent the running of timber or logs, and then by the raising of the gates or opening of sluices, to permit the water or a portion of it so penned up to pass into the river, and thus to flush the logs and timber down the stream. The report from the engineer remarks upon the foregoing demand as follows :- "It may thus be seen that these two projects are antagonistic. If the dam were built at the Mountain Rapids for the purpose of navigation, then the river below for milling and rafting purposes would remain as it is at present, and no advantage would be derived by the mill owners at the Chaudiere. If the sec ond proposal were carried out, then, as regards navigation, the river would remain as it now stands. I am not prepared, for the want of information-information to be obtained only after a most thorough and caroful examination of the river from the Mountain Rapids to Ottawa, the cost of which would be not less than \$5,000—to offer an opinion as to the feasibility of the scheme for making Lake Temiscamingue reservoir for feeding the Ottawa during the periods of low water; neither can I estimate the cost of a dam at the Mountain Rapids, and its probable effects on the country at the foot of Lake Temiscamingue, without further and extended examination. Either of these projects would involve an expenditure, ranging from \$250,000 to \$500,000; for, as I believe it would be unwise to construct the works of be built, if built at all, in a most solid and onduring manner so as to ensure their normaneuco and a minimum cost for annual repairs.'

It is expected that next season all the mills

hereabouts, will be lighted with the electric light. Messrs. Bronson and Weston, and Mossrs. Perloy and Pattee are at present having the necessary apparatus put in their mills, Mr. E. B. Eddy, the lumber king of 3 13, vas a few days ago elected Mayor of that c Mr. W. G. Perloy, of the firm of Perley c Pattee, is at present in England, and he_ been there for a number of months. He is one of the principal directors of the Canada Atlantic Railway Co.

WINNIPEG.

The Winnipeg Commercial of 'an. 23, says : There is very little domand at sent, nor is there likely to be any of much account until the revival of building operations in the spring. Quotations are as follows:

Pine lumber, 1st, common boards, dressed 825'50

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AY.BANY.

Quotations at the yards are as follows :-

Anoramous at malana ma as it	110//2:
Pine, clear, WM	835 CO,260 CO
Pine, fourths	50 000355 00
Pine, selects	
Pine mod how	99 00/2998 00
Pine, 10-in. plank, each. Pine, 10-in. plank, cuils, each. Pine boards, 10-in. Pine, 10-in. boards, cuils.	00 42800 48
Pine Join plank culls each	00 කුළුග ක
Pine hoonle 10 in	00 25600 32
Pine Tole boards colls	00 18/200 21
Pine 10 in boards 10 tt 30 M	00 22 500 22
Pine, 10 in. boards, 10 ft., WM Pine, 12 in. boards, 16 ft.	30 00@34 00
Pine, 12-in. boards, 13ft	30 00(43) 00
Pine, 13 in milion colors	II WOODS W
Pine, 11 in. siding, select	45 00(347 00
rine, 12-in. Figure, commen	18 60320 00
Pine, 1-in siding, select	43 00@45 00
Pine, inch siding, common	15 00@18 00
Spruce, boards, each	00 00:700 16
Spruce, plank, 11-in., each	00 00@00 20
Spruce, plank, 2 ln., each	00 00600 30
Spruce, wall strips, each	00 126500 12
Hemlock, boards, each	00 000000 14
Hemlock, joist, 4x6, each	00 00@00 33
Hemlock, joist, 2 x4, each	00 00@00 14 ·
Hemfock, wall strips, 2x4. each	. 00 00Q00 11
Ash, good, & M	40 00@43 00
Ash, second quality, WM	25 00@20 00
Cherry, rood, PM	. 60 00@85 00
Cherry, commor, & M	. 25 000135 00
Oak, good, \$ M	. 40 00@43 00
Oak, second quality, 38 M.	_ 20 00x25 00
Bassyrood, & M	. 25 00(430 00
Hickory, & M	40 000240 00
Maple, Canada, & M	. 23 00830 00
Maple, American, per M	. 20 00/729 00
Chestnot, V M	. 33 00/110 00
Shingles, shaved, pine, WM	. 0 000 6 50
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CHICAGO.

The Northwestern Lumberman says :- While mainess has been quite dull for the past wook there is a slight improvement noticeable in the demand, and sales have been a triffe better than they were the preceding week, although as yet the improvement has not become altogether general, aer have the sales been large. With a very item exceptions the dealers report an increased demand from the country for estimates on bil's, togutler with a few sales that denote the trade is not dead, and seem to promise a good business as soon as the weather grows milder. Dealers whose trade lies in the southorn part of this state and in the south expect to uses trade pick up within two or three weeks, when it will gradually crosp northward as warm wood, or any perishable material, they should weather becomes general. All of the dealers

are exceedingly hopeful, and none of them will sell any bills at a sacrifice in order to reduce Although business is very dull, bugers only taking what they absolutely need, there is an improvement in the western enquiry, espec-ially in Kanssa and Nebraska. Shipments are gradually growing larger. Still, the dullness in trade does not seem to affect prices. There is not severe cutting reported, and sollers don't appear to be at all auxious to force sales.

While the lumber business is always slow at

this ceason of the year, this has been particularly the case this year, and the volume of business thus far this year has been fully onethird less than for the same period last year. That the market has not become demoralized and gone to pieces under the dull trade is by some dealers attributed to the fact that mill men carry over so many logs. In former years it was the habit to run day and night to cut up all the logs they could get, but of late they have preferred to carry over a portion of their logs rather than cut every thing and glut the market. Another element that tends to stiffen the market in spite of the low volume of business is the general belief that the balance of the winter will be a favorable one for dealers.

Receipts of lumber, shingles, etc., for the week ending Jan. 24, as reported by the

Lumberman's Exchange:	_	
	R.YX	EIPTE.
	Lumber	. Shingles
		472,000
18\$4	9,000,000	
1883	. 3,181,000	
PROM JANUARY 1, 1884, TO JAN	uary 24, 1884	EXCLUSIVE,
	RECEU	
	Lumber.	Shingles.
	9,014,000	
1894		
1883	11,790,000	1,120,000
Increase		
Decrease	2,776,000	2,996,000
STOCK ON HAN	(D JAN. 1.	
1884.	1883.	1882.
Lumber 835,348,661	655,013,520	560,416,842
Shingles461,930,496	299,946,350	260,906,494
Phinking pringation	76,361,002	45,820,433
Lath 65,953,140		
Pickets 1,529,257	3,093,990	3,784,178
Codar posts 397,832	78,034	219,012
October Process		· ·

BOSTON

Collon, Wool and Iron of Jan. 26, says: There has nothing developed to change the character of our previous report. The demand for all kinds is of a quiet and conservative nature at this between season period. At the same time, the prevailing tone is steady, with a fair prospect for the coming season. Quotations are for car-load lots.

CANADA PINE.			
Selects, Dressed	33 23	00@35 00@35	ò
Sheathing, 1st quality	42	00045	00

BUFFALO.		
We quote cargo lots:-		
Uppers	00/248	00
Common 13	00/322	œ
Calls 13	00@15	Ö
		-

OSWECO, N. Y. From Our Own Correspon

The demand for lumber has been very quiet since our last report. There is no change in quotations; stocks are in excess of any year past, and the assortment is good; dealers are firm on prices and collections are well kept up. The margins have been very close the past year and not much money made.

Three uppers	845	00/248	. OX
Dialinas	***	~~~	
Pickings			
Fine, common	20	000225	· Oc
Common	17	00/217	Ň
Culls	11	000415	α
Mill run lots			
Sidings, selected, 1 inch	30	UXXXX	Œ
?} inch	30	00.234	α
Mill run, 1x10, 12 inch	10	000	Ň
Will san'tyin' to manistration	10	1340	•
selected	22	002720	ο
Shippers	14	00/217	· N
Chales 7 and 11 fact will wan	**	00441	
Stribe' I was 15 mes min tan	14	OCC 118	Œ
Stripe, I and Il inch mili run	10	00/313	C
ix6 selected for clapboards	36	00/275	Ň
The movement of compromises		ONIS SO	
Shingles, XXX, 13 inch, pins	- 4	0000	- 54
XXX, 18 inch, ocdar		25/0 3	
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TONAWANDA.

OVERO TOTA — BYGINYM TURESCALO	N.	
Three uppers	00:746	α
Common	00/224	α
Culls 12	115.00	α

as far as we can learn, made up their minds what the free-on-board prices are to be for the forthcoming season, and those we have consulted on this side in relation to this important question appear to think it will be some time yot before quotations are on the market, though we can hardly see how they can be much longer delayed. We gave our ideas of what the opening values for leading stocks will range at, and which, we think, will be found very near the mark. Anyway there is hardly any question but that the prices demanded this year for first open water will be under rather than over those put in the hands of buyers a year ago

Messrs. Foy, Morgan, & Co., had a capital attendance at their sale on Wednesday, most of the London trade being present, and many provincial tirms being represented also. latter do not always figure as buyers, but their presence shows that the proceedings are not such a matter of indifference to them now as they used at one time to give out. The ties of sympathy between the prices at the Baltic salerooms and those of the outports are much closer now than they used to be ere steamers figured in the broker's freight lists:

Yellow pine appeared to be in request, but the lots offered were mostly short lengths. Spruce seemed in better odour, 3rd quality Rimouski going from £7 10s. to £8. By the time the flooring portion of the catalogue had been reached the room had thinned off considerably and bids were not so readily forthcoming; hence it was twenty minutes to four ere the last lot was knocked down.

LIVERPOOL

The Timber Trades Journal of Jan. 12, says: There is little animation displayed in the market this week, and sales for the fulfilment of country orders have been somewhat restrict-

This is no matter of surprise, looking at the general unsatisfactory condition of trade, and especially so in this district, where the strikes in the northern parts of the country are in some degree interfering with the customary course of business. But, on the other hand, we have a moderate amount of building in progress which has not been materially interfered with by the state of the weather so far, and these operations will tend to keep the trade moving.

The import of timber continues small, and with a continuance of the present mild weather there should be no impediment to the preserv tion of building operations, and this should cause a steady drain upon the market for all building materials.

On Wednesday Messrs. Farnworth & Jardine offered a parcel of Bangkok teak planks for sale, but failed to elicit a bid for them, and afterwards Messrs. Alfred Dobell & Co. offered the cargo per Glen Grant, from Apalachicola consisting of about 39,000 cubic feet of hewr timber and 1,435 feet of sawn planks. cargo sold fairly well upon its ments, and was almost entirely taken by the local trade.

SENDERLAND.

The Timber Trades Journal of Jan. 12, says: The holidays have at last passed, and business will again run in its old groove. The present mild weather enables outdoor work of all kinds to be pushed, and in the building trade unusual activity is shown.

Importations during the week are only poor, viz., a steamer from Fredrikshald with 600 loads props, for Rayner & Moller, and a cargo of oak timber, 250 loads, from Stettin for Short Bros. A Quebec cargo of 600 loads oak, elm. ash, white and red pine timber, and a quantity of deals, arrived during the New Year holidays, and only commenced discharging on Tuesday last. The cargo is for market, and as part of it s going into crafts for Hartlepool. we presume the Liverpool house, who have the matter in



JONES & SON. Wholesale Lumber & Timber Dealers

39 Broadway, NEW YORK.

Oak, Ash, Cherry, Black Walnut, Poplar, Butternut

And all other Kinds of HARDWOOD LUMBER.

White and Yellow Pine Lumber and Timber. Oak Ship Plank and Timber. Pine Deck Plank and Ship Stock Generally.

J.S.MAYO

IMPORTER AND MANUFACTURER OF

MACHINE OILS

OF EVERY DESCRIPTION.

9 Common Street, Montreal.

AMERICAN LUBRICATING OILS A SPECIALTY.

As I carry the LARGEST and BEST assorted Stock of OILS in the Dominion, I am prepared to fill all orders Promptly and at

LOWEST MARKET

take place here next week, results of which will TONAWANDA.

CARGO LOTS—GAGINAW INSPECTION.

Set 00346 00

GLASGOW.

Theo Timber Trades Journal of Jan. 12, says:

Theor is no further movement in the trade here to chronicle, and the same state of quietude to which we have now got so accustomed still perwards of the market. The foreign houses have not report at this time, but two are announced to less most important interests.

the Liverpool house, who have the matter in hand, are dividing the carge.

GLASGOW.

The Timber Trades Journal of Jan. 12, says:
There have been few arrivals of wood goods at Clyde ports during the past wook—say altogether about 2,000 loads. Business has hardly yet resumed its ordinary flow since the New Year holidays. There are no public sales to timber trade here, which has in that industry its most important interests. be duly forwarded. The wages question has

for the working class. Send 10 cents for postage, and we will mail you free, are we will mail you free, are we will mail you free, are year, schable one of eample goods that will put you in the way of making more money in a few days than you ever thought possible at any business. Capital not required. We will start you. You can work all the time or in spars time only. The work is universally adapted to both sexes, young and old. You can easily carn from 50 cents to 33 every evening. That all who want work may test the business, we make this unparalleled effer, to all who sare not well satisfied we will send \$1 to pay for the trouble of writing us. Full particulars, directions, etc., sent free. Fortunes will be made in those who give their whole time to the work. Great success absolutely sure. Don't delay, Start now. Address Stusson & Co., Augusta, Maine.

TIMBER FOR RAILWAYS.

When the charter of the Northern Pacific railroad was granted, the company, was given the privilege of cutting such timber as was needed in construction on lands "adjacent" to the line. As the work progressed through timborless regions, the contractors, under the color of this tree cutting privilege, in some instances went 100 miles away from the line to obtain timber, construit; the word "adjacent" to mean anywhere on Uncle Sam's domain that timber was to be found that could be rafted to the railroad. There has been some kicking against this free range of the forests in eastern Washington, and, through the instigation of local interests, probably, the United States began suit against the company for the recovery of \$70,000 stumpage value in Yakima county. The case was tried before Judge Hoyt, of the second judicial district, at Olympia. The decision of the court was in favor of the defendant | Brunswick :-company. 'The text of the decision recited that the word "adjacent" had a broader sense than the word "adjoining," and could be stretched, like the clastic skin of the man at the dime museum, to cover even a hundred miles. If this decision holds in the higher courts, it follows that lands mijacent to a land grant railroad company may cover unlimited territory .-Northwestern Lumber man.

ST. JOHN LUMBER EXPORT.

The Monetary Times says :- As has already been stated, the prospect for the lumber trade is not favorable, and one may be prepared to hear Fear of operations upon a reduced scale everywhere. At St. John we are told there is held over about 35,000,000 feet, while last year the stock there amounted to about 58,000,000 feet. Through out New Brunswick the stock is about twothirds of what it was in January, 1883. A reduction of fully forty-five per cent, has been made, too, in the lumbering operations there this season. In the year 1883 St. John shipped to Europe, Africa, and Australia 181,518,132 superficial feet of deals and onds, a large quantity, but, says the Telegraph, considerably below every year in the last ten years, excepting 1875 and 1879. The shipments during the first three quarters of the year were heavy, but since the unfavorable turn in the wood market in England they have been largely reduced.

The following statement shows the quantity exported and the ports to which the cargoes

•		-		
were sent:	_	••		
Ports.		Vesses. No.	Tons.	Deals, etc. S. Ft.
Africa,	1883	10	5,649	5,319,725
do.	1892	2	2,078	1,991,116
Australia,	1883	2	2,333	1,877,974
do.	1552	3	3,404	1,909,080
Barrow	1833	4	2,693	2,645,930
da	1882	10	8,907	7.891,134
Bristol Ch.	1833	35	26,676	25,282,085
do.	1832	46	32,364	31,343,063
Continent	1553	27	19,723	18,321,454
do.	1832	ಬ	18,648	10,784,409
Ircland	1653	91	45,900	43,479,995
đa.	1552	76	42,362	39,223,422
Liverpool	1533	74	81,061	67,713,949
do.	1892	91	102,088	64,542,341
London	1833	6	6,891	5,329,409
da.	1832	8	6,820	6,495,159
Scotland	1533	8	7,593	6,799,250
da.	1832	8	7,035	0,663,712
Walce	1553	8	5,491	1,843,803
da.	1892	4	2,006	611,057
Total	1953	270	205,311	181,515,132
đo,	1332	234	231,379	201,413,217
Ton care	ZOOS NYĆ	re sent i	lo Africa	where two

only were sent in 1832, and none in 1881 or 1880. Liverpool, of course, continues to be the centre of the trade-67,000,000 feet being sent

The chief shipper of sawn woods continues to be Gibson, of Nashwaak, whose shipments, though 10,000,000 feet less than in 1882, were 19,000,000 foot more than in 1881, and 24,000,000 feet more than in 1880. He despatched 118 vessels, of 105,491 tons. Other large shippers were R. A. & J. Stewart, W. M. MacKay, Guy, Bevan & Co., S. Schofield, Clinch & Sons, Knight & Co.

The square timber trade of that port shows figures rather shead of the provious year, 3,883 tons of pine and 11,950 tons of birch having been exported, compared with 3,332 tons of pine and 7,576 tons of birch in 1882. As exporters in this department of trade, the names of hours.

Scammell Bros. and McLachlan & Wilson require to be added to these mentioned above. The square goods all went to the United Kingdom except 159 tons birch to the Continent of Europe. We take some extracts from a statement given of the shipments from St. John for

rue 1r	at inirty y	OSCS :		
Year.	Tonnaye.	Deals, etc. S. feet.	Pine. Tous.	Birch Tons
186-1	266,402	148,190,392	71,226	8,483
1665	225,521	123,634,537	77,441	10,876
1860	213,794	146,376,091	29,422	9,009
1865	209,562	169,637,724	17,296	9,437
1870	183,629	148,971,221	3,472	7,095
1875	202,818	171,157,264	748	6,959
1877	262,111	215,173,920	1,191	13,043
1880	258,058	210,012,240	2,834	16,832
1831	235,785	210,281,730	1,549	5,158
1832	331,370	201,413,717	3,832	7,676
1883	205,311	191,815,182	8,383	11,050

The Telegraph also gives the shipments from the principal ports of the Province of New

			•	
ļ	ł .	RIEDE	AC.	
	Year.	Varrels.		Deals.
٠,	1	No.	Tons.	S. feet.
, '	1892	31	13,165	12,495,000
١.	1883	23	10,389	9,624,000
		BATHUR	ST.	
١,	Year.	Vessels.	•	Deals.
3		No.	Tons.	S. feet.
ľ	1832	33	20,242	17,412,806
٠.	1833	63	27,483	23,416,607
•		BAY VE	RTS.	
1	Year.	Vessels.		Deals.
	- x	No.	Tons.	S. feet.
	1892	10	3,623	4,030,000
,	1633	3	1,379	1,350,000
	1	DALHOT	SIE.	
1	(incli	iding outport	of Campbelli	ton.)

	No.	Tons.	S. feeL
1892	38	20,637	15,652,666
1632 1833	44	20,847	18,726,737
!	MIRAI	eiciii.	
1832 1835			A feet deals.
1832			117,500,935
1885		******	148,563,030
	BICHIE		

(Including ont ports of Buctouche and Cocaigne.) S. feet Deals, 13,829,650 21,090,150

"The total shipment of deals from all the ports given above amounted in 1883 to 401,287,-676 superficial feet, compared with \$81,990,174 feet in 1882. The chipments from the ports from which we have no returns would not alter these figures very much, and our statement from New Brunswick."

NEW BRUNSWICK.

For several years past there appears to have been a gradual falling off in the deal shipment of New Brunswick. The pine timber trade has declined to next to nothing although the exports of birch timber alightly incressed during the past year. The export of pine from the port of St. John has fallen from 77,441 tons in 1865 to 3.883 tons in 1883, while in 1875 it only amounted to 748 tons. The shipment of birch timber, although showing a small increase over 1882, was light, the total shipment only reaching 11,950 tons last year against 7,576 tons in 1881. The smallest shipment of deals made during the rast thirty years was in 1858 when only 123,638,368 feet were exported, while the largest shipment made during that period was in 1877 when it reached 215,183,920 feet., Although the greater part of the deal and timber exports of New Brunswick goes to Europe, over 7,000,000 feet of deals were shipped to Australia and Africa from St. John last year. There appears to be a large decrease in the quantity of deals being carried over at the latter port this winter as compared with last year; the figures being 58,000,000 feet held over during the winter of 1882 against 35,000,000 at present held. The total shipment of deals from the province during last year, from all parts, will probably reach 410,000,000 against \$\$5,000,000 feat exported during 18\$2.

FOR A HARD COLD, with pain in the head, bones or through the chest, take Down's Elixir at one and in liberal doses, cover up well in bed an Jour wend for it. How will soon be well.

TIMELY AID.—A little daughter of the Captain of the Steamer "Empress of India" was sudden ly ill with Crosp while at a friend's house in Toronto. No medical aid being handy, recourse was had to Hagyard's Yellow Oll; this popular household remedy offended prompt relief and the little girl was as lively as over in a few



THOS. GRAHAM & Co., File Manufacturers

150 FRONT STREET EAST TORONTO.

FILES FOR SALE.

FILES RE-JUT

DIXON &

MANUFACIURERS OF



70 King Street East, Toronto.

SPECIALTY:-Belting made from J. B. HOYT & Co's American Oak Tanned Leather. Send for Price List and Discounts.

EAGLE FOUNDRY!

GEORGE BRUSH

14 to 34 King and Queen Sts, MONTREAL,

MAKER OF

these figures very much, and our statement steam Engines, Steam Boilers, Hoisting Engines, Steam Pumps, OIROULAR SAW MILLS, BARK MILLS, SHINGLE MILLS.

Water Wheels, Mill Gearing, Shafting, Hangers and Pullies, Hand and Power Hoists for Warehouses &c., &c.

Also, Sole Manufacturer of BLAKE'S CHALLENGE STONE BREAKER.

'Water's" Perfect Steam Engine Governor, and "Heald & Sisco's" Centrifugal Pumps

EXTRA HEAVY AMERICAN

Oak Tanned Leather Belting.

RUBBER BELTING, RUBBER PACKING, RUBEER HOSE, LINEN HOSE and COTTON HOSE.

A Full and Complete Stock always kept on hand. WRITE FOR PRICES and DISCOUNTS.

We have the Largest and best equipped RUBBER FACTORY in the world for the manufacture of VULCANIZED INDIA RUBBER GOODS for Mechanical Purposes.

Our trade here has increased to such an enormous extent that in order to keep up with the demands, we have purchased from Major John Gray, M.P.P., Parkdale, the plot of ground situated on West Lodge Avenue, adjoining the Credit Valley, Toronto, Gray and Bruce, Northern and Grand Trunk Railways, for the erection thereon of a BRANCH RUBBER FACTORY, works to be in full operation January 1st, 1884.

THE GUTTA PERCHA AND RUBBER MANUFACTURING CO.

. MCLLROY JR.

WAREHOUSE:-10 and 12 King Street East, P.O. BOX 556.

TORONTO.

The Improved CLIMAX Sash Lock

MANUFACTURED BY MILLER BROS., GUELPH.

Holds the Sash in any position so that it cannot be moved either up or down, can be put on by anyone, only requiring two screws.

AGENTS FOR CANADA:-

RAE & WATSON, 22 Church Street, TORONTO, Ont.

KNIGHT'S PATENT "EXCELSIOR"

The Sawyer's Favorite

For Holding Logs upon a Saw Mill Carriage while being Sawed into Lumber.

HUGH GIBSON, ESQ.,—Your Patent Excelsior Mill Dogs give entire satisfaction, and is certainly up to your recommendation. They are the best Mill Dog in the market. I am very much pleased with them.

Yours Respectfully,
PETER MCLARREN.

Berring, April 20th; 1883.

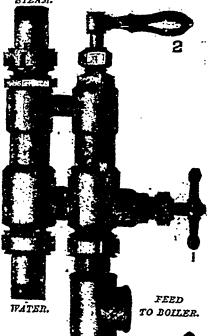
HUGH GIBSON,—Sir,—The Dogs I bought of you give satisfaction.

They beat any Dog that I ever saw for ripping or edging lumbor on carriages. They are just the thing for scantling. I would not take \$50 for them to-day and have to wait for another pair to come from you, because I believe they make two dollars a day for me.

Yours truly

Manufactured by HUGH GIBSON, CHATHAM.





The Best Feeder known for Stationary, Marine or Locomotive Boilers.

THE INJECTOR PERFECTED!

All Sizes lift water 25, feet. No adjustment required for varying Steam Pressures.

Over 50,000 Now in Use

MANUFACTURED BY THE

Hancock Inspirator Go'y

5 CUSTOM HOUSE SQUARE, MONTREAL, P.Q., CANADA.

Manufacturers of Inspirators, Ejectors, and General Jot Apparatus. - 25.30

HENDERSON BROS. LUMBER AND TIMBER.

OFERFLOW.

Building & Bridge Timber Sawn to Order. Pine, Spruce and Hemiock Lumber by the Cargo.

237 Steam Saw Mills, Box Factory and Yards -342 to 300 William St., and 130 St. Constant St., Montreal Steam Saw Mills, L'Assomption, P.Q. P. O. Box 804.



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MOCOCK & SON

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AXES and EDGE TOOLS

OF EVERY DESCRIPTION.

Old and Reliable, the Best Axes made in Canada.

Established 1874.



Established 1874.

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Spinal Complaints, General and Nervous Debility, Nervousness, Rheumatism, Gout, Liver, Kidney, Lung, Throat and Chest Complaints, Neuralgia, Bronchitis, Incipient Paralysis, Asthma, Sciatica, Sprains, Consumption, Sleeplessness, Colds and Indigestion.

Ask for NORMAN'S ELECTRIC BELTS and you will be safe against imposition. for they will do their work well and are cheap at any price.

A. NORMAN, ESQ.—Dear Sir.—Please send me a waist belt. Enclosed find price. Head band I got for my wife has almost cured her of neuralgia. Yours truly,

C. L. TILLEY, WATERVILLE, N.B.

Numerous of such testimonials can be seen at my office proving that they are doing a good work and worthy the attention of all sufferers. Circulars free. No charge for consultation.

A. NORMAN, 4 Queen Street East, Toronto.

HORMAN'S ELECTRO CURATIVE TRUSS is the best in the world. Guaranteed to hold and be comfortable. Circular free. N.B.-Trusses for Eupture, best in America, and Electric Batteries always on hand at reasonable prices-

Will always find a Large Stock of

In every Size and Weight, and

HORSE BLANKETS

AT LOWEST MILL PRICES.

TORONTO.

A Magnificent Line of All Wool Fawn Blankets.

SAMPLE ORDER WILL HAVE OUR BEST ATTENTION,

FATE OF FIVE LUMBERMEN.

Two years ago, says a Corning despatch, five young men came from the woods of Maine, where they followed the occupation of choppers, and found employment in the lumber regions of Pennsylvania, in the vicinity of Malley's mil's. They were George and William Jennings, brothers; Arthur Fraley, Andrew Shalcress, and Hiram Stephens. The first week they were in the region Gourge Jennings was " snaking" logs to a roll way. As he was engaged in fastening a chain around a large log, standing on the lower side of it as it lay on the top a small hill it was started in some manner, and before he could get out of the way it knocked him down and rolling over him,

CRUBIED HIM TO DEATH.

His father had been killed in a similar manner in Maino. A few months afterwards, Arthur Fraley and William Jennings were hunting in the woods near Malley's mills. They had shot a door, and after loading their guns, had walked up to where the deer lay. Fraley stooled down beside the deer and Jennings stood behind him. While they were in these positions Jennings saw a fawn come leaping along the edge of the ridge close by them. He quickly cocked his The click of the hammer caused Fraley to look up. Seeing the fawn he rose quickly to his feet. Jennings gun was discharged at the same instant, and the ball passed clear through Fraley's head killing him instantly. A few weeks later Jennings was engaged with others in driving logs, and while he was breaking a jam the jam gave way unexpected'y, and he was carried down with it and crushed to death. After William Jenning's death Andrew Shalcross declared that he could not remain in such an apparently fatal spot and he obtained work in Potter County. Last week the news was received that he had been killed by a falling tree. Hiram Stephens was now

THE ONLY ONE ALIVE

of the five young lumbermen who had come together to Pennsylvania. He had remained at Malloy's mills. Last week when he heard of Shalcross' death he resolved to return to Maine. He had agreed to work at the mills until the 1st of February, and as his employer would not release him before that time he made his arrangements to go when the time expired. Two weeks ago a young man named George Gough went to Malley's mills to work as a teamster. On Monday last there was but little for the trams to do, and as one of the choprers was aick Gough was sent to the woods to chop. He and Hiram Stephens went together. They were to work on a job about three miles from the mills. Gough was a green hand at chonping, and until about three o'clock in the afterfoliod a tree, and organistics to trough that he days' trial is allowed.

y his hand at one. Gough selected a medium

_od tree near by and began chopping. Stephens proceeded to trim the one that he had felled, and paid no attention to Gough's work. After a while he heard Gough shout to him to run, as the tree would fall in such a way as to strike him with a branch. Stephens started carrying all forms of Scrofula by cleansing the blood and his axe in front of him. He had taken but a regulating the secretions.

few stops when he stumbled and fell. Gough was giving the last strokes on the tree with his axe, and seeing that Stephens did not rise after falling he ran to his aid, forgetting the danger from the tree. Before he reached Stephens

THE TREE PELL WITH A CRASH, and Gough was caught beneath the very branch against which he had warned his companion. He was pinned on his back to the ground, the limb lying across his logs. No part of the tree touched Stephens, although Gough did not lie six feet from him. When the tree fell Stephens raised his head and saw Gough lying beneath the branch. He rose to his feet and then Gough saw the blood was pouring in a great stream from a fearful wound in Stephens atomach. He had fallen on the upturned blade of his keen axe. Stephens staggered towards his companion, and, although it was evident that he was dying, began chopping at the limb with the intention of releasing Gough if poss ble. He gave a lew feeble and random blows, and then, turning to Gough, he laid the axe within his reach, and said :

"I'm done for George! You'll have to cut vourself out."

He then staggered off a low feet and fell to the ground dead. After long and difficult labor Gough succeeded in cutting the limb in two with Stochens' axe and in pushing off his log that portion of it that hold him fast. Then for the first time he knew that one of his legs was broken. There is a cabin, occupied at night by a number of choppers, about a mile from when Gough lay, and as night was coming on and little hope of any one passing that way, and none that he could survive a night epent pros trate on the snow, he determined to drag himself through the woods to the cabin, When the choppers came into the cabin about six-o'clock they found Gough lying unconscious on the floor. His fingers were torn and bleeding and his clothes torn. Such restoratives as were at hand served to revive Gough, and he was soon enabled to tell of his terrible experiences of the afternoon, and the aweful fate of young Stephens. Gough's fingers were torn to the bone by clutching in the snow and on bushes to drag himself along to the cabin. Ho was taken at once to Malley's mills, and he will doubtless Stephens' dead body was found by a recover. party of choppers who went in search of it, and will be buried at Malley's mills.

On Thirty Days Trial.

The Volinic Belt Co., Marshall, Mich., will send Dr. Dye's Celebrated Electro-Voltaic Relts and Electric Appliances on trial for thirty days to mon (young or old) who are afflicted with ping, and until about three o'clock in the after nervous debility. lost vitality and kindred noon had simply trionned the branches from the troubles, guaranteeing speedy and complete trees that Stephens iclied. Stephens had just folled a true and appearance to trough that he

> An important inquint.—Are you threatered with Consumption? If so, the cause may be in the blood. Impure blood and Scrofula are close companions, and Scrottis and Consumption are still closer related. Burdock Blood Bitters care

LIVERPOOL STOCKS.

We take from the Timber Trades Journal the following Comparative Table showing Stock of Timber and Deals in Liverpool on Dec. 31st, 1882 and 1883, and also the Consumption for the month of Dec. 1882 and 1883 :-

		1883.	Dec., 1882.	Dec., 1883.
202,000	ft.	459,000 ft.	190,000 ft.	250,000-ft.
	**	\$0,000 "	20,000 "	24,000 "
68,000	•	20,000 "	0,000	4,000 **
	**	305,000	89,000 "	4,000 " 54,000 "
006,000	**	530,000 "	85,000 "	123,000 "
		175,000 "		00,000 " 10,000 "
21,000	••	81,000 "	00,000 "	≥ 0,000
		330,000 "		46,000 ** 84,000 **
40,000	••	13,000 "	3,000	5,000 "
61,000	••	22,000 ''	13,000 "	4,000 " 4,000 "
. 102,000	**	91,000 "	53,000 "	63,000 "
13,000		49.000 "		9,000
		23,626 *tds	1 \ '	3,000 **
. 530	••	1,375 "	11	6,681 stds
8,482 494		5.005	1,343	2,079 '' 200 ''
	••	105 **	103 "	168 " 121 "
	275,000 61,000 65,000 65,000 65,000 600,000 21,000 21,000 10,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 14,000 15,000 18,0	66,000 ° 65,000 ° 65,000 ° 60,000 ° 00,000 ° 00,000 ° 53,000 ° 100,000 ° 100,000 ° 100,000 ° 102,0	292,001 ft. 459,000 ft. 349,000 " 275,000 " 30,000 " 65,000 " 50,000 " 65,000 " 50,000 " 65,000 " 50,000 " 65,000 " 50,000 " 65,000 " 50,000 " 65,000 " 50,000 " 65,000 " 50,000 " 60,000 " 50,000 " 60,000 " 50,000 " 60,000 " 50,000 " 60,000 " 50,000 " 61,000 " 51,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 52,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 62,000 " 61,000 " 65,000 " 65,000 " 60,000 "	275,000 ft. 459,000 ft. 190,000 ft. 19



(ESTABLISHED 1852.)

BOILER WORKS

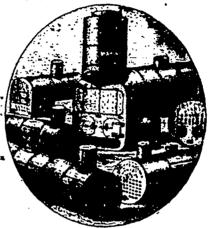
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Steam Boilers

NEW and SECOND HAND ENGINES CURRIE, MARTIN & Co. Explanade, Poot of Frederick Street, TORONTO.

JOHN McGREGOR & SONS

Manufacturers of all kinds of STATION-ARY, MARINE and LOCOMOTIVE



3OILEIRS

And SHEET IRON WORK.

SECOND-HAND MACHINERY Bought, Sold or taken in exchange for new work. 22 REPAILS PROMPTLY ATTENDED TO. All Bollers Tested by cold water pressure to 150 pounds to the square inch. DOCK and WORKS :-

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it has the Largest Circulation, the Latest News, both Local and Foreign. A Spiendid Story Page. First-class Agricultural Page. Agricultural Page. Reliable Market Re-ports. Legal Column Household Depart-ment, Children's De-

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ORDERS FOR DIMENSIONS AND ALL OTHER KINDS AND GRADES OF

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PROMPTLY ATTENDED TO.

Timber Limits and the Square Timber Trade a Specialty. Office, Wollington Street, OTTAWA, 11tf



WILL OURE OR RELIEVE.

BILIOUSNESS, DYSPEPSIA. INDIGESTION, JAUNDICE, ERYSIPELÁS SALT RHEUM, HEARTBURN, HEADACHE,

DIZZINESS, DROPSY. FLUTTERING OF THE HEART, ACIDITY OF THE STOMACH,

DRYNESS • OF THE SKIN, And every species of diseases arising from disordered LIVER, KIDNEYS, STOMACH, BOWELS OR BLOOD.

T. MILBURN & CO., Proprietors, Toronto.

Send six couts for postage, and receive free, a costly box of gools which will help box of gools which will help an anything else in this world. All, of either in first hour. The broad road to fortune opens the workers, absolutely sure. Address Taus Augusts Walne.

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"ALBERT LEA ROUTE."

Trains.
Trickets for sale at all principal Ticket Office in
the United States and Canada.
Bakings checked through and rates of fare al.
ways as low as compositors that offer less advan-

ways as low as compositors that once the lags and fold-lages. For detailed information, get the Maps and fold-

CREAT ROCK ISLAND ROUTE,
At your nearest Ticket Office, or address
R. R. OABLE, E. ST. JOHN,
Vice-Free & Gent Not. Cent Till & Fam. 449
CHICAGO.

The William Hamilton Manufacturing Co'y

MANUFACTURERS OF

LIMITED,)

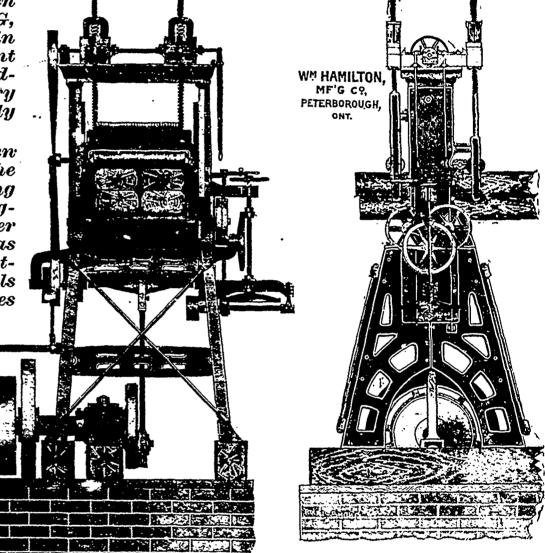
Saw Mills and General Machinery

PETERBOROUGH, - - - ONTARIO.

We introduce to the Lumbermen of Canada our New IRON GANG, which will be seen by the cut is in itself a complete and independent Machine, resting on its own foundations, having all the Machinery for operating, feeding, &c., directly attached.

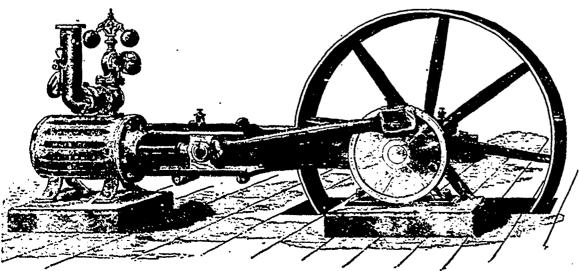
The advantage of this over even a well built ordinary Gang in the mill frame is evident. No settling out of line, no yielding and springing of timber, while a much greater working speed is obtained. It has the most improved style of oscillating motion, it has the Press Rolls operated by power, and it possesses

generally all the good jeatures of best American Gangs, with heavier frame work and heavier shafting, all with a view to rapid, steady & correct working. A good look at one of these massive machines satisfies the sarmill man that they are in every way capable of continuously performing heavy duty, throughout the season.



We make these Gangs one of our specialties and manufacture them of different sizes.

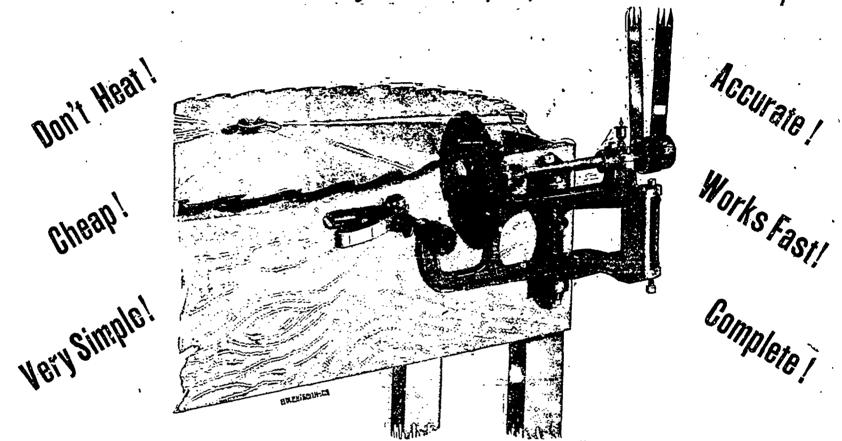
-ALSO-ENGINES AND BOILERS



This cut represents our SAW MILL ENGINE, of which we make the following our Standard sizes, 12x16, 16x20, 18x24, and 24x30, built Strong and Substantial for Heavy Work. The Piston Rod, Cross-head Pin, and Wrist Pin, are made heavy and of the best steel; the Connecting Rod has solid ends and is tightened up by screw and wedge, avoiding all danger of keys getting out; the Slide Valve has a simple valance valve, requiring no attention from the Engineer, as it is self-adjusting. The Engine Shaft and Fly Wheel made very heavy. Belt Pulleys put on when required in place of Fly Wheel, and all regulated by the Judson Governor.

ROCERS' PATENT SAW GUMMER am SHARPENER

The Handiest Machine for these purposes ever Invented.



Lumbering Season, 1884

Saw Mill Owners in providing for the season of 1884, ought not to lose sight of ROGERS' SAW GUMMER for it will save them more money in proportion to the amount invested than any other machine.

Only \$30, including Emery Wheel; Table and Countershaft, \$10 extra.

A few of ROGERS' SAW GUMMERS were put on the market last season, and we quote some of the commendations received:

JAS. HADDEN, Formead, says:—
"Your machine is all I expected."

CHAS. ANDERSON, Anton Mills, says—
"I have given it a good trial, and am well pleased with it."
I find it is one of the induspensables in a saw mill."

ROBT. R. WEIR, Orillia, writes:—

"It works like a charm, and is very accurate in its work."

CRONE & PATTON, Hoe Roc Mills, Gravenhurst, says:

"The Regars' Saw Gummer purchased from you gives"
good satisfaction, "it cannot be beat."

D. DAVIDSON, Pentanguishene, writes:—
"We are well pleased with the Gummer."

W. W. BELDING, Wysvale, writes:—
"I have the Gummer running and it is giving good
"satisfaction."

ADDRESS ALL ORDERS TO THE

Hart Emery Wheel Company, Limited - Hamilton, Ont.

Manufacturers of Hart's Celebrated Patent Wire Strengthened Emery and Corundum Wheels.