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

SUBSCRIPTION NO. 18.

VOL. 1.

PETERBOROUGH, ONT., JULY 15, 1881.

THERE is now brought into the city of New Orleans annually about 15,000,000 feet of timbr, which is sawed into lumber by mills in the aty, and there is received besides about 60,-(00,000 feet of lumber, 6,000,000 shingles, 40,-00,000 cords of wood and 25,000,000 staves, a large portion of which is exported to foreign ports, and there seems to be no good reason the wood trade of New Orleans should not be largely increased. Louisiana abounds in manuficient virgin forests with amplo water ficilities for transporting it to market. While ts total area is 26,105,600 acres, but 3,700,000 eres are under cultivation, and 5,821,000 acres consist of prairie and sca marsh lands leaving 17,581,000 of almost untouched forest lands, abounding in rod, white and black oak, hickory, wh, beech, dogwood, criptoss, cottonwood, elm, mo, etc., etc. Evidently Now Orleans is destined to become an important lumber centre.

THE Northwestern Lumberman of the 25th dt., says: There are now coming to this city (Chicago) about 60,000 cubic feet of walnut logs belonging to Untario parties, and destined for the European market. The owners have had a force of men securing them, principally in Misour. There will be three cargoes, and they will be forwarded from here to Quebec, thenc to European ports. The chances for eastern wyers to obtain walnut in western Missouri are nowing smaller overy day. Manufacturers in hat section have come to understand that the eat stretch of country west of them will be alling for furniture continuously, and they ave decided that it is better to manufacture it bere than to ship the walnut east and in turn hin the furnitum back. Of late a great many Sctories have been built in that state, and they rakes lively effort to secure the walnut that rows in the surrounding country. At present they are paying from \$40 to \$50, log run.

THE business of 1881 thus far, presents to the mind of the observer two important features. The first is the fact that trade-this season has ractically escaped its usual attack of weakness. As a rule holders and sellers have been comelled to submit to a decline on the opening of tavigation, and oven to witness a regular break op in prices, but this year, except in Chicago, there has been no period of workness, and even hen it amounted to comparitively nothing Then, in the second place, it will have been beerved that throughout the season it has been fiffcult to fill orders, and at no time during SSI has there been lumber enough in the hands of dealers to meet the domands made upon minutly. Broken assortments have been The Most proof that instead of ing that it is all wrong, that is, the principle is peetle, and dyspeptials one of the most troublesome fight as they were ready for consumption. It is just that streams should be considered high ways conquerit. It stimulates the secretions, regulates the overlease upon the Liver, aids digestion, and be no apprehension of any general decline. It makes them efficient, but it is wrong to place is a stream stream of the and the secretions. be rele, which is the best proof that instead of tocks accumulating they have moved off as apidly as they were ready for consumption.

SAW GUMMING.

There are several contrivances for the troubleome but necessary job of gumming saws. Files, burr gummers, punches, and grindstoues have in turn been used, but nothing has proved itself o rapid and officient as the Emery or Corundum w heel. To perfect their operation, inventors have not been slow to place before lumbermen, machines to run these saw gumming emery wheels. Mr. W. Hamilton, Peterborough, is now supplying a machine for this purpose, and judging from the demand he has for them, the Covell Saw Sharpener must be a very efficient tool. Our readers will notice from our advertising columns that the celebrated Hart Emery Wheel, well known to American lumbermen as the "Detroit Wheel," is now being made in Canada. The manufacturors, whose headquarters are in Hamilton, claim to have given special attention to the wants of sawyers, and as a result are offering a Corundum or Emery Wheel thoroughly adapted in every respect to the work of saw gamming and saw sharpening. The pronument and well known firms to whom they refer, indicate that their efforts to produce good article have been successful, and that they are well-deserving of a share of the trade. We understand that a buarantee of absolute efficiency accompanies each wheel.

THE STREAMS BILL.

We clip the following letter from the Toronto Globe of the 6th of July :-

SIR, - In both your own and the columns of our leading contemporary on the other side, telegraph poles, and all like matters. there have been recently many letters and articles on the disallowed Streams Bill, No. 102

As I am here on the spot in the district which would be, perhaps, most affected by the Bill becoming law, I think I am justified in writing a few lines thereon. I will avoid alluding to the partisan arguments which have been advanced on either side, so that my remarks may bo as short as possible.

The Bill as a Bill is not to be admired, seeing hat privileges and rights conferred on anyono thereby are granted only for and terminated by the spring, summer, and autumn freshets. Therefore, after any freshet is over these persons with their dams, piers, sprons, etc., would have to clear out or be treated as trespassers.

If the Ontario Legislature cannot procure to to drawn a simple Bill to carry the meaning they intend nearer than this, the sooner some member moves the Minister of Education into the Speaker's chair the better.

But joking apart the Bill is all right, except.

the power to govern, alter, and superintend in the hands of each and any private individual vho desires their use.

By this Bill aryone who wishes to take a log r boat or raft-the latter definition might be satisfied by two sticks and a sheep hurdlelown any stream, may construct "aprons. dams, slides, gate locks, booms, and any other work therein or thereon necessary to facilitate the floating and transmitting of such logs, &c &...," and they have also the right to use all means usual amongst lumbermen, the damage being only restricted when it can be shown to be necessary to facilitate the passage of logs, rafts, crafts, etc. In the Lunc of common sense is not this legislation gone mad? Any one who wishes to float sticks or walnut shells (timber and craft) down any stream, or when a stream is created during the freshets, may build dams and aprons or use any other diabolic means usual to lumbormen to facilitate the transit, and if they drown out 2,000,000 acres no one is entitled to claim a cont for damages. A single dam might drown out miles of country, and lostroy on it the timber the property of the Crown; the destroyer falls back for protection n this Bill, which has for its object the public interest. If honost, the Ontario Logislaturo sight to be thankful that their production has been consigned to the limbo of the waste paper basket.

The fact yet remains,

1. That all permanent streams should be avail allo as public highways for floatage of timber, ul cat, sawlogs, square timber, booms, ties,

2. That any improvements or works constructed by any private owner should be avail able at fair tolls for public benefit.

But any damage caused by alterations should be made recoverable from the State, and in assessing damages the property must be con sidered as a whole, and in agricultural lands the raising of the water table-that is, the level at which the water stands beneath the soil - must be considered.

Lastly, the regulation of tolls should rather be left to arbitration than to the decision of the deutenant-Governor in Council.

I have no more to say on this, I trust, mori bund Bill, with the exception that I am sur prised that the gentleman to whom the inhabi tants of this district confided their interests at the last election should have permitted such a measure to pass the House without protest.

I am, Sir, your obedient servant E. G. MUNTTZ.

ALFORT, Muskoka, July 4, 1881.

THE TIMBER OF BRITISH COLUMBIA.

That section of British Columbia west of the Cascades and including Vancouver and Queon Charlotto Islands is, according to Professor Macoun, covered with, probably, one of the finest forests in the world. Chief amongst the trees is the Douglas fir (Abics Douglasii), which is the chief forest tree, and which is used throughout the country for building purposes, and for export in the form of deals and spars.

White codar (Thuja gigantea) is another aant, and in the Valley of the Fraser and up the coast attains to an immense size. The Indians use this wood altogether in the con struction of their houses, and in building those largo canoes which are the wonder of the eastern people.

The other trees are a species of yow, another of alder, two species of fir (Abics Menzicsii and grandis); two species of pine (Pinus contorta and monticola); two species of maple (Accr macrophyllum and circinatum); hemlock spruce (Abics Mericanana) is a common tree on the mainland ; while a species of oak (Quercus (Jayrrana) is abundant on the island, but has not been detected on the continent. An overgreen tree (Arbuta maieri) is quite common along the coast of the island, and, both summer and winter, its foliage contrasts finely with that of the sombrehued Douglas fir.

In the second, or arid distrct, ai pine (Pinus ponulcrosa) takes the place of the Douglas fir on the coast, and is a very valuable tree, growing to a large size, with clean trunk, and resembling the red pine of Ontario very much. The tops of the lower mountains and the sides of the higher ones support a heavy growth of Douglas fir, but it is far from being the beautiful tree of the coast.

The timber of the third region is not so good, and consists principally of poplar and black pine (Pinus contorta), with occasional groves of Douglas fir on the higher hills. Black and white spruce, with a little balsam fir, make up the remainder.

The island of Vancouver is about 300 miles in length, with an average breadth of about 60, and probably contains 20,000 squaro miles. The soil is good, but the surface is so much broken by rock that it is altogether impossible to tell the amount of good arable land on the island. There is no doubt the day will come when Vanconvor will support a large population-partly agricultural, and partly engaged in mining, lumbering, and fishing.

Burrard Inlet is situated on the Gulf of Georgis, a few miles from New Westminster. It is nine miles long-deep and safe. It is the port from which the lumber trade is chiefly carried on. It is very easy of access to vessels of any size or class, and convenient depth of water for anchorage may be found in almost every part of it.

MCLAREN VE. CALDWELL.

JUDGMENT BY THE COURT OF AFPEAL-THE DECISION OF V. C. PROUDFOOT OVER-RULED. C. J. SPRAGE delivered judgmont in this case on Friday in the following terms :-

The plaintiff describes himself in his bill as a lumber merchant, lumber dealer, saw miller, and lumborman, and states that the defendant carries on the same branches of business. The bill enumerates some twelve parcels of land, of which it is stated that the plaintiff is the owner, and it states also that he is owner of large tracts of timber. The bill goes on to allege that the streams flowing through these parcels of land were not navigable streams, "nor floatable for logs and timber " while in the Crown, nor until after the improvements set forth in the bill were made on the said streams by the plaintiff, and that in their natural and unimproved state they would not, even during freshets, permit of saw logs or timber being floated down the same, but were useless for the purpose, and in the 10th paragraph there states his rights :-- "The plain till is entitled, both as riparian proprietor and owner, in fee simple, of the bed of the said streams where they pass and flow through the said lots, respectively, to the absolute, exclusive, and uninterrupted uses of the said streams for all purposes not provided by law, and amongst other purposes to the absolute and exclusive right to the user of the same for the purpose of floating or driving saw logs and timber down the same." He then goes on to say that in various parts of the said streams, which run and flow through lands therein described, the plaintiff and those through whom he claims have expended a large amount of money in making certain specific and very valuable improvements, which ho sets out in's number of the following paragraphs of the bill.

The complaint is in substance, that the defondants having got out several thousand saw logs, threaten, and intend to avail themselves of the improvements set out in the bill, and that in floating and running the timber and logs down the stream they are interforing with and obstructing the plaintiff in running and floating down his lumber and saw logs, and he takes this ground, that the defendants in so doing are wrongfully and forcibly, and without right, or colour of right, making uso of the improvements made by, the plaintiff, and those under whom he clauns, and of which plaintiff is entitled to the exclusive and uninterrupted user.

Evidence was given at great length before V. C. Proudfoot. That learned judge considered that he ought to follow the case of Boale v. Dickson, and that he understood that case to determine that if any improvements are necess ary to render the streams floatable, the statute does not apply; that it does not alter the character of the private streams, and that the owner of the land over which the stream flows has the right to provent intrusion upon it. Upon the evidence he came to the conclusion that without the artificial means of which evidence was given neither of the streams upon which improvements had been made by the plaintiff could be considered floatable, even in freshets or high water.

That was the issue upon which the evidence in the cause was given, and that the proper issue of the construction placed upon the statute in Boale v. Dickson was the proper construction.

Upon the appeal to this court it is contended that the construction placed upon the statute in Boale v. Dickson was not correct. It becomes our duty, therefore, to consider and determine that question.

It is obvious from a perusal of the Acts (which are considered in c. 48 of the C.S.U.C.) that it was the policy of the Legislature to encourage the lumber trade of the province; and to preserve the fish in the streams. The Act of 1828.9, Geo. IV., c. 24, recites : " Whereas, it is expedient and found necessary to afford facility to the inhabitants of this province engaged in the lumber trade in carrying their rafts to market, as well as for the ascent of fish in various streams now obstructed by mill dams." Then follow two sub-sections, which are embedied in section 3 of the Consolidated Act.

The same policy is evidenced by 12 Vic., c. 87, the first section of which supplies what may be

1828, viz., that aprons or slides to mill-dams should be so constructed as to afford sufficient depth of water for the passage of saw logs, lumber and timber-a provision embodied in sec. 4 of the Consolidated Act.

Then in sec. 5 of the same Act we find enacted what is embodied in secs. 15 and 16 of the Consolidated Act. The first clause of sec. 5 is in the same terms as sec. 15, beginning thus :-And be it enacted that it shall be lawful for all persons to flost saw logs" (and so to the end of sco. 15) "and other timber raits and craft down all streams in Upper Canada during the spring, summer, and autumn freshets ; and no person shall, by falling trees or placing any other obstruction in or across any such stream, provent the passage thereof."

In Boale v. Dickson this opinion is expressed, "that the right so given extends only to such streams as in their natural state will, without improvements, during freshets permit saw logs, timber, etc., to be floated down them, to streams of a different class is those mentioned in the third section "Down which lumber is usually brought."

No such qualification' of the right given by ection 15 is to be found in the Act nor in any other provious Acts thereby consolidated. There is nothing in the context of any of these Acts showing or tending to show that such qualification was intended; and we know from what we find in the evidence taken in this cause, that confining the right given by section 15 to such streams as are described in the passage I have quoted from Boale v. Dickson would go far to defeat the avowed policy of the Legislature. Evidence was offered that in some of the streams in the province, at the date of ussing of these Acts, saw logs, timbers, &c.,' could be floated down in their natural state without improvements, even during freshets. The evidence was stopped by the learned Vice-Chancellor upon the objection of the plaintiff's coursel after some evidence in that direction had been given. But from the evidence that was given in the cause it is apparent that if section 15 is to be road with the qualification given to it by Boale v. Dickson, a very large mumber of the streams in the province would be excluded from its operation.

I agree with what is said in Boals v. Dickson "that assuming the plaintiffs to be the owners of the bed of the river, and considering this Act to be a diminution of private rights, no greater right can arise to the defendant under it than a right to float timber, &c., down during freshets ; it confers no right to in any way either improve or deepen the natural channel." I do not understand by this that a person to whom such right to float timber down is given, &c., may not romove fallen timber and such like obstacles to navigation as are referred to in Crell v. The G. T. R. Co. But taking what is said in the passage I have just quoted from Boale v. Dickson to be correct, it may well be conceded without affecting the constitution of the Act. It may be thought that the Legislature had over much regard for the interests of the lumbermen, and too little regard for the interests of riparian proprietors. Our province is to construe the Act and not to fail to give due effect to it under an idea that its provisions press over hardly upon one class of persons for the benefit of another class.

I do not feel pressed by the consideration that no right is conferred upon lumberers "to alter improve, or deepen the natural channel." It does not prove that it was not intended to confer upon them the privilege of availing themselves, in the floating of their logs and lumber, of improvements found by them to have been already made in the natural channels of the streams.

The statuto makes no provision for compensa tion to those at whose expense improvements have been made. We may conceive that it would have been more just that provision should have been made for componsation. The Legislature, however, may have felt difficulty in the way of adjusting a scale of compensation, or may possibly have taken some view as this :-The different lumbermen make improvements on their respective properties, each for his own sake. By giving to all a common right over the property of all, we may make an approximation

doing this more than others ; but it is the only way of accomplishing that which is, with us, a paramount object, the fostering of the lumber trade. That this was a paramount object is ovidenced by the recitals to the earlier Asts that I have quoted.

Apart from all these considerations, we have the plain unequivocal language of the Act. To adopt the construction not upon it in Boale v. Dickson, we must read "all streams" as meaning "some streams" and re look in vain in the Act for any class of streams defined as they are defined in Boale v. Dickson. If what is rpposed in that case to have been included had been really intended, section 15 should have run thus, "All persons may float saw logs and other timber during the spring, summer, and autumn -" but such freshets, down." not all streamsstreams as in their natural state will without improvements permit saw logs, timber, &c, to be loated down them." It is too much to say that such an alteration of the Act is not construction, but legislation ?

Reference is made in B. & D. "to streams of a different class to those mentioned in the third section," "down which lumber is usually brought." The streams mentioned in the third section are those down which lumber is usually brought, and on which a mill dam may be egally crected. That cannot be a stream down which in its natural state, without improvements, timber, lumber, etc., could be floated. because on such a stream a mill dam could not be legally crocted. The words "all streams' could not be applied only to that class of treams. There is another class denominated "small streams," which certainly did not form the class, though they might be comprehended in the class to which the words "all streams" applied.

I am unable to concur in the construction put upon sec. 15 of the Act in Boale v. Dickson. There being no context, nor indeed anything whatever in any of these Acts on this subject, to control the ordinary grammatical meaning of the words used, we must read them in their ordinary graminatical sense ; and should, therefore, construe soc. 15 as giving the privilege to all persons to floct saw-logs and other timber down all streams in U. C. during the spring, summer, and autumn freshets.

It follows that, in my judgment, the suc not an issue that arises under the statute ; Let that the defendants had to have the right conferred upon them by sec. 15 of the Act, to float, during the freshets named in that section, their timber, rafts, and crafts down the streams down which they were causing them to be floated when their rights were called in question by the plaintiff's bill.

We, of course, do not question the propriety of the course taken by the learned Vice-Chancellor in accepting the interpretation put upon the Act in Bosle v. Dickson. But being unable, after a careful consideration of the various Acts passed upon this subject, to concur in that interpretation my conclusion is that the plaintiff's bill must be dismissed.

For reasons which the Chief Justice gave at lerigth, each party is left to pay their own costs. DIFFERENCE OF OPINION.

In the foregoing decision delivered by the Chief Justice of Appeal, Patterson, J., and Morrison, J., concurred, but Burton, J., held We publish his judgment different views. below.

CHIEF JUSTICE BURTON'S OPINION.

In this case I have the misfortune to differ with my learned brothers, and if this had been a court of last resort, whilst not concurring, I should not have thought it proper to express my dissent, but under the circumstances I think it is but fair to the litigants and respectful to my collegues briefly to express the grounds on which I feel compelled to come to a different conclusion. The expiration of the general common law principles applicable to inland waters would seem to be well stated in the case of Waldsworth v. Small (2 Fairfield, 280), and to be consistent with the doctrine in the tract de fure maris sometimes, but it is said erroneously. attributed it to Lord Hall, viz. that those streams which are sufficiently large to bear boats or barges, or to be of public use in the

water, over which the public have a common right, and the private property of the owner of the soil is to be improved in subserviency to the enjoyment of this public right; whilst, on the contrary, such little streams are not as floatable, that is, cannot in their natural state be used for the carriage of boats, rafts, or other property, are wholly and absolutely private, not subject to the servitud) of the public inter. est, nor to be regarded as public highways by water, because they are not susceptible of use as a common passage for the public. Numerous decisions are to be found at a very early date in the Tinited States to the offect that although the adaptation of the stream to such public use may not be continuous at all seasons, yet the public right attaches and may be exercised whenever opportunities occur. In the case of Thunder Bay River Company v. Speedily, 31 Mich., 343. Mr. Justice Cooley thus refers to the subject :-- "Nor is it essential to the case. ment that the capacity of the stream in its natural state and its ordinary volume of water abould be continuous, or, in other words, that its ordinary state at all seasons of the year should be such as to make it navigable. If it is ordinarily subject to periodical fluctuations in the volume and height of its water attributable to natural causes, and recurring as regularly as the seasons, and if its periods of high water and navigable capacity ordinarily continue a sufficient length of time to make it useful as a highway, it is a subject to the public easementreferring to Morgan v. King, 35 N.Y., 459, 18 Barbour 284, and 30 Barbour 9."

It would seem that this very reasonable view of the common law doctrine in reference to these streams had at a very carly day been recognised by our own Legislature.

Thus we find in the first act passed in Upper Canada in reference to mill-dams, 9th Geo. IV., c. 4, that it was passed in the interest of persons engaged in the lumber trade, to alford facilities for the convoyance of their rafts and lumber to market, and that the owners of milldams, erected on the proprietor's own lands, across any stream down which lumber was usually brought, were compelled to make provision for its passage by the construction of sufficient aprons, and in soveral other Acts before we come to the 12th Vic. provision is made for floating down square timber and other manufactured lumber prepared for market.

The latter Act, though passed also evidently in the interests of lumbermen, made provision also for the protection of the mill owner so long as he complied with the conditions prescribed, otherwise the lumberman was at liberty to abate the dam as a nuisance if it interfered with his use of the stream.

In the same Act, however, we find the Legislature using language not only confirmatory of the view that the public had the right to use such streams as I have referred to, but doclaring that all persons may during the spring, summer, and autumn freshets float sawlogs and other lumbor, rafts, &c., down all streams, a provision which in my opinion was intended to be simply declaratory of the Common Law right of everyone to use every stream that was capable. in its natural state, and its ordinary volumes, of transporting in a condition fit for market the products of the forests or other pro peprety, with an express statutory declaration superadded that it was not essential to the public casement that the capality of the streams as those defined should be continuous, but that it should be exerciseable even though it could only be so exercised in times of freshet.

This was then the state of the law in several of the neighbouring States where lumbering operations were carried on to a very large extent, but it was not the universal rule there, the courts in some places holding that a stream which is not canable of being used at any time for the passage of boats or the floating of rafts and logs, except when swelled by rains or the molting of snow, is not in any legal sense a navigable stream, but is private property and not subject to the servitude of the public easement.

And this being the state of the authorities, it is not unreasonable to assume that a Legislaturo dealing with a similar state of things in tended to place the question beyond dispute. taken to have been an emission of the Act of of doing justice to all. Some may be gainers by transportation of property, are highways by and to declare that even though the stream

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was not navigable at other times, if it because so in times of freshet the public right to pass at these times should be recognized.

If that is not the proper view to take of the onactment, but it was intended to declare these streams to be public highways, as my learned brother appeared to think, it would, I approhend, follow that wherever the natural obstructions were removed by the owner of the soil so as to make those portions of the stream not previously navigable passable for boats or timber, the owner of the soil would not be in a position to exclude the public from the use or enjoyment of the stream 50 improved. The illustration given by my brother Patterson, of a portion of a concession line which is declared by law to be a common and public highway being impassable by reason of some physical obstruction, would then be applicable. It is because I am unable to find in any of these statutes language declaring these streams to be of that character that I am unable to concur in the conclusion of the other members of the court. I quito agree with them in their view of the doctrine laid down in Boale v. Dickson. I think there is nothing to warrant the qualified construction placed upon s. 15 of 12 Vic., c. 87, by the learned judge who delivered the judgment in that case, but I am unable to bring my self to the conclusion that the mere permission or the recognition of the right to float all stream during freshots make the entire stream publici jaris, although in point of fact many portions of it may be quite impassable, even in times of freshet, for the smallest description of timber or other articles of merchandise. The language of a statuto which would by a particular construction have the effect of interfering with the enjoyment of private property, or give the right to others to pass over it without compensation, ought to be very plain to induce a court to place upon it such an interpretation. I have pointed out what I conceive to be its proper meaning and intention, and full effect is given to the words by adopting that construction. If that be the correct interpretation, then I apprehend it will be still necessary to accertain whether at the particular point where the stream passes through the plaintiff's land it was floatable when in a state of nature during freshets. If not, then in my view it is not floatable within the meaning of the authorities, but is wholly and absolutely private property. To illustrate my meaning as to what I conceive would be the effect of the statute if the judgment of my colleagues be correct, let us image a stretch of many miles above the place in question not only float. able, but navigable for larger vessels. A space than intervenes for say half a mile neither navisuble nor floatable at any period of the year, followed by long stretch of navigable water to the mouth of the stream.

It is not necessary to the navigability of the stream that it should be navigable for its entire length. The public may use such parts of it as are navigable.

If, then, this intervening space had passed from the Crown into the hands of a private prometor, and he has at his own charges made -hat was provious to the improvement his own in point of property, and non-navigable and non-floatable, to be passable for large vessels ather by the deeping of the channel or the making of locks, can it be possible that under language similar to what is to be found in this statute the owners of steamboats and other large vessels could pass over such property of right; in other words, that a property which admittedly while it remained unimproved was strictly private property, unaffected by any whice eight whatever, lost that character and bocome publics juris, although made navigable mircly at his own and not at the public ex-rense, because in an Act of Parliament it is declared that all persons may during the spring, ummer and autumn freshets float saw logs, etc. down all streams. I venture, with considerable diffidence and doubt in the correctness of my ewn opinion, in consequence of the different view taken by learned brothers, to think that such a result could never have been comtemplated by the Legislature. Yet such must be the result in the case sugger ed if the proper construction of the Act gives the defendant the power • ... timber over these improvements of plaintiff as of right.

I repeat, then, that in my view of the statute it was intended to confer no new right, but to remove all doubts as to the right of lumbermen to uso a stroam passing through privato lands, oven t' ugh not at ordinary times, if it could be made useful at a time of fresnet. If that be the proper construction of the section, then it would be necessary to examine the evidence for the purpose of ascertaining whether at the parti cular points where the stream passes through the plaintiff's land it was a floatable stream before the improvements, but as the other members of the court take a different view of the statute, it becomes unnecessary for me to do so. Upon the other appear from the pro-of V. C. Forguson it becomes unnecessary to offer any opinion, except with a view to the costs. I may say, therefore, that to my mind the 27th section of the Appeal Act can have no application to a case of this kind-there can be no execution of a decree necessary or possible in a case where the decree is, if I may use the term, executed as soon as made. There was nothing to be done under it, and nothing further would require to be done unless it were disobeyed, in which case I apprehend that without the formal issue of a writ of injunction the parties to the suit could be proceeded against for contennt

. I think, therefore, that the appeal should be dismissed with costs.

In the main appeal I am pleased to find that the other members of the cours have seen their way to the allowance of the appeal, as a contrary conclusion could not have been otherwise than disastrous to one of the most important industries of the Dominion; the result is that the public become entitled to use the plaintiff's improvements without compensation, which was most properly secured to him under the Act which has recently been disallowed.

MISCELLANEOUS.

A CAR-LOAD of implements has been shipped by Mr. Watson, of Ayr, to Aberdeen, Scotland.

THE Keewatin Lumbering Company are at present shipping eight to ten car loads of lumber per week from Rat Portage to Winnipeg.

An unusually large quantity of deals and other lumber has been shipped from Herbert River, N.B., this season.

MESSES. BICKELL & WICKETT are going to build a tannery in Toronto, near the mouth of the Don, and the Council has promised to exempt the property from taxation for a term of five years.

A NEW steamship is building on the Clyde for the Dominion Steamship Company, which it is stated will exceed the burden of the Allan steamship *Parisian* by three hundred tons. The name of the new craft is to be the *Vancouver*.

By an accident with a circular saw, Mr. W. Graig, foreman of Stovens, Turnor & Burns, London, had a finger taken off, and a fellowworkman namad D. Bradley had three ribs broken by a flying piece of board from the saw.

BUSH fires have been doing considerable damage in several places in Quebec; not only has valuable timber been destroyed, but a great deal of fencing and in some cases farm buildings have become a prey to the flames.

THE Scottish American says: In New York State the replanting of forest trees has been attended with very good results, and it is noted that in one belt of country where replanting was general the rainfall has largely increased. In Kansas and Nebraska the results obtained from replanting are even more striking. The planted forest serves to break the fore of the wind, and the influence of the woods' growth is seen in lessened periods of drought, and an increase in crops.

WHEN DOCTORS DISAGRAFE WHO SHALL DECIDE? The people often decide by "throwing physic to the dogs" and trying BURDOCK BLOOD BITTERS, and the result is always satisfactory. Burdock Blood Bitters is the Multum in Parroe of medical science, curing all diseases of the Blood, Liver and Kidneys. A trial bottle only costs 10 cents. A doilar bottle may save you many dollars in doctor's bills.

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THE TRADE AND THE PUBLIC.

It is a peculiarity of all class periodicals that in advocating the rights of the interest they undertake to represent they soom to give them selves no concern alexit the public good, as if that might be left to take care of itself. One might almost fancy their objects were antagontic, for, while the one is always lamenting when low prices provail, the other reloices in getting its commodities as cheaply as it possibly can, and people may be said to trouble them. selves very little about the cast of production of the article they want, when they go to market to lay out their n may to the best advantage.

What avails it that the dealer can show that to is offering his goods at the morest shadow show cost price, if the man over the way is willing to sell a similar and equally good material at a still lower figuro? Ever since the second Sir Robert Peel's time, when he became the advocate of free trade (having previously opposed it with all his might), and gave out his colebrated procept, as if it were a happy thought to which he owed his conversation, that it was a first principlo of trade "to buy in the cheapest market and soll in the dearest," all idea of taking into consideration the expenses incurred in producing the material we are inclined to deal in has been abandoned, as an exploded weakness with which froe trade has no sympathy.

But there was nothing original in Sir Robert's plausible phrase, which became popular merely bocauso he had uttored it, as a novelty, and it was taken up and repeated as the essence of wisdown which embodied in a few words the whole doctrine of free trade, and left nothing more to bo said about it. It had, however, long before been practically adopted by those branches of husiness which the police are supposed to keep an eye on, and of which we have a well-known representative in the character of Mr. Fagin, the amiable patron, crowhile, of Oliver Twist. and that class of trader might almost justify his calling by proving it to be in strict accordance with Sir Robert Peel's rescript, and possibly its tendency has been in some degree to demoralize We may be less scrupulous in looking trado. for cheapness, as a sort of duty enjoined upon us by this modorn law of trade, which does not suggest to us the nocessity of ascertaining how the goods we are in pursuit of came to be se cheap. That duty is left to the teaching of the statutos at large, if people choose to run the risk of them, and place implicit confidence in the honesty of the seller, without asking any inconvenient questions as to his rights of pro prictorship in the commodity he is willing to dispose of so much below the market price. And there is always the chance of escaping illconsequences by appealing to Sir Robert Peal's apothogm. It is easy to plead that unless you buy in the oheapest market and sell in the dearest "-that is, the dearest market available -business cannot be dono at a profit under freq trado.

If it has not lowered the standard of trading morality in some appreciable degree, at all events the term "connection," as applied to business, seems now-a days to have a different meaning from that which it formerly possessed. In past times the word was understood to mean cortain parties who dealt regularly with a certain house for certain goods, and mutual dealings in this way often continued for a lifetime ; now it means little more in a general sense than correspondents and dealers you are known to. and with whom you have an occasional transaction when they cannot get the goods a fraction cheaper elsewhere.

Fortunately, however, in the timber trade we are less exposed to malversations of this kind than in almost overy other. The bulkiness of the wares is a sort of guarantee for integrity in the manipulation of them. They cannot be hidden away in bags, boxes, or barrels, and pass muster in transmission as something totally different. There they are, conspicuous to all the world, wherever they go, indifferent to conment and criticism, and entirely independent of it.

Neither is the apparent neglect of the public's interest so real as at the first it might be accounted in treating only of the advantages to trade. The desire to see prices kept up to a fair

Pary to be constantly obtruded, that it cannot be good for the community at large that any impertant and logitimate trade should be carried on at a loss. A price may be very moderate suit yet be a paying one; on the other hand, it may seem rather high and yet the sellers may be getting nothing by it. Such has been the state of the timber trade in many parts of Britain latterly, where wholesale transactions have borne no profit because too much was paid at first hand, in comparison of the plentifulness of. the supply, to bring the commodity to market. The duty of the journalist who has undertaken its cause is then to call the attention of the trade to this state of affairs by pointing out the sources of its difficulty, collecting and submitting to them the facts that bear upon it, and suggesting how the ovil may best be mitigated. But in a "s there is no implied disregard of the good of the public, who are supposed to gain what the trade is losing. There is nothing of the spirit of monopoly, and desire to obtain more than the fair value of the goods brought forward, and for the rest the public is well able to take care of itself, and requires no special pleader to teach it how to make the hardest bargains, as we have intimated, without taking conscience at all into its caloulations,

There is a disposition in fashion to insist that a fair day's work should be supplemented by a fair day's wages, but no one agitates for a fair profit to the man whose goods are fairly paid for. He must take his chance in the market against another who has perhaps not paid for the commodity he is selling, and never means to. Such are the impediments which come botween a trader and his just expectations when he thinks he has laid out his money well, and is looking that it should yield him a reasonable return.

These thoughts have been suggested to us by the apparent necessity we have latterly been under of always harping on the same string. Wo look in vam for some encouraging new from the provinces, as to the solid revival of the trade for which the importers are waiting. If any of our correspondents speak cheerily, it is mostly after the manner of Captain Cuttle, at the Wooden Midshipman, in Leadenhall street, when he rubbed his hands, and thought business looking up, because somebody called and inquired the price of a pair of speecheles, The trade continues languid, and without hope of immodiate improvement, though the manufacturing industries and reported as doing botter than they were a little while back. Liverpool, Hull, Grimsby, Hartlepool, and Nowcastle are all in suspense, and have no faith in obtaining satisfactory prices for the new arrivals, which are already coming forward in rather formidable proportions (especially in Liverpool), though they have not as yet materially affected home prices, because their effect was proviously discounted, and people refrained from extending their orders abroad till they saw how their market would bear the new strain on them of their first importation.

On the other side of the Atlantic they are more hopeful of this season's trade than they are here, and our Chicago correspondent's letter (June 11, p. 361) draws's bright picture of the prospect before it out there, but not without a suggestion that the cutting of logs may be superabundant.

"A considerable increase is looked for by many in the amount of lumber turned out, as compared with the cut of other years. The majority of operators favor this view of the situation, and look for an abundance of lumbri. though not more probably than the demand will call for."

The season has, it seems, been very favorable for gotting the timber clear of the drives, and there is no anticination of any difficulty in bringing the logs forward, as we learn from the concluding paragraph of the letter aforesaid. All idea, therefore, of any curtailment of our supply for this year has completely vanished. whether it be from Northern Europe or from Amorica, and in its place a strong impression is gaining ground that our markets will be pretty severely tested on all sides.

In Liverpool it is expected that steamers will ake a lead, even in the Atlantic timber trade. this summer, and as they will run at very paying level arises from a conviction, not noces. I moderate freights the shippers on that side are they were planted.

not unlikely to charter on speculation in the absence of orders; as in the worst case they will only have to hold stock on this side, instead of at home, with the chance of disposing of it during the winter, when if unshipped it would have to lie idle and uscless until the following spring. It is the uncertainty which pervades the trade on these points that has kept it so quiet and unspeculative so long.

If the public gains by this kind of business the trade docs not like it .- Timber Trade Journal.

PRACTICAL ITEMS.

Looso pulleys require constant attention and much ail, and are very hard on the belt. It is best to have them a trifle smaller than the tight pulloy, and with a stop or flange running up to the diameter of the tight one. This takes the strain off the belt and the friction. from the pulloys.

Where a mill is driven by mortise gearing, it has been recommended to use a mixture of pulverized chalk and liusced oil, for lubricating mrposes. It is said that this mixture is much better for wooden cogs than oil, tallow or flour. The chalk for this mixture should first be 1 2 verized and then sifted with a fine sieve

Any sharp steel will cut glass with grea facility when kopt freely wot with camphor dissolved in turpentine. A drill may be used, or even the hand alone. A hole may be readily onlarged by a round file. The ragged edges of glass may also be thus smoothed with a flat file. Flat window glass can be readily sawed by a watch spring saw, by the aid of this solution In short, the most brittle glass can be wrought almost as easily as wood, by the use of drilling tools kept constantly moist with camphorized oil of turpentine.

Ordinary white wood can be given the appear ance of the finest black walnut. The wood first thoroughly dried and warmed, is coated once or twice with a strong aqueous solution of extract of walnut peel. When half dried, the wood thus treated is brushed with a solution compound of 1 part (by weight) of bichromate of potassa in 5 parts of boiling water, and after drying thoroughly is rubbed and polished. By this treatment, the color is said to be fixed in the wood to the depth of one-twelfth to onesixth of an inch, and in the majority of cases the walnut appearance is declared to be very perfectly imitated.

So eminent an authority as Professor Sweet says, in reference to the question of economy by reduction of friction, that of two systems, one offering a saving of 10 per cont. by reduction of friction, and the other 20 per cent. in the use of steam, he would take that which led to a saving in friction, which of necessity implies saving in maintenance, attendance, repairs, de lays, etc. The loss by attendance, repairs and delays is greater in small engines than in large. To get economy in friction, there should be generous wearing surfaces, well fitted, and properly lubricated, and the engine should be in absolute alignment. We often find shafts which are set in perfect line and remain so when at rest, but which are deflected by the strains put upon them while at work.

The American Architect and Building News says that maple is unquestionably better than the average yellow pine for flooring. It is very fine-grained and tough, though perhaps no harder than yellow pine, and is completely free from the liability to splinter, which injures much of the latter. Some years ago a number of Boston mill-owners made thorough tests o various kinds of material for flooring their fac. torics, where the wear is very severe, and concluded that maple was superior to any other-Very possibly this experience may have led to the favor with which maple house-floors are re garded in that region.

Fourteen years ago a Mr. Sterling, of Monroo, Michigan, placed two gate posts of white oak in front of his residence. When they were set he bored into the top of each with an inch and a half augor a hole three inches doop, filled it with common salt, tightly plugged it, and coppered the posts. Having occasion recently to change the location of the posts, he found them as sound from top to bottom as the day

HOW FORESTS PRODUCE MOISTURE.

Dr. Franklin B. Hough, United States Com nissioner of Forestry, gives the following explanation of the effects of forests on moisture : It is a matter of common remark that our streams diminish as the woodlands are cleared away, so as to materially injure the manufacturing interests depending upon hydraulie power, and to require now sources of supply for our state canals, and for the use of cities and largo towns. Many streams once navigable are now ontirely worthlass for this usa. The mode in which this influence operates will be readily understood when we consider the effects of forests upon the hundidity and temporature of sir.

A dociduous tree, during the season when in foliago, is constantly drawing from the earth, and giving off from its leaves a considerable amount of moisture, and in some cases this amount is very great. This change of state from a fluid to a gaseous condition, is a cooling process, and the air near the surface, heing secured from the sun and from the winds, be comes, by this means, so humid that a rank, succulent vegetation often springs up and thrives, which in an open field would wither and porish in an hour. The air being thus charged with moisture and cooled, does not take up by evaporation the rains which fall, and the soil, being more open, readily allows the water from melting snows and from showers to sink into the earth, from whence a portion appears in springs and in swamps, which give rise to rills and streams.

The air at all times holds more or less watery vapor in suspension, and its capacity for doing so is increased as the temperature is raised, not by a steadily gaining rate, but more rapidly as the heat is increased. There can be no evaporation when the air is saturated with moisture, and no deposit of water in any form until the temperature is reduced to the point of saturation. It is not yet determined as to how far the cooling and moistening influence of a grove may extend. It must depend upon many cir cumstances, and especially upon the slope of the surface, and the direction of the winds. The effect is often apparent to the eve from the freshness of the herbage in adjacent fields for many rods in width.

The effect of woodlands in retaining snows where they fall, and in delaying their melting in the spring, has been overywhere observed in snowy countries. In such localities the snow cannot be drifted by the winds, and when it molts is disappears slowly, sinking into the will rather than flowing off upon the surface. The effect of this delay in checking a too carly appearance of fruit blossoms, cannot be mistaken. The result is in fact similar to that of consider able areas of water, such as our northern lakes, along the borders of which, especially on the ec-side, fruits are found to flourish with the greatest success. In a country interspersel with clumps and belts of worklands, the snows drift less, and their melting more evenly over the surface cannot fail to be beneficial to the interests of agriculture, and more especially to meadows and pastures.

HEMLOCK RAILBOAD TIES.

During November, 1866, the Rock Island railroad laid 2,000 hemlock cross ties that had been saturated with chlorido of zinc in the road bed of the main line, some three-fourths of a mile west of Englewood, as an experiment. Last Saturday these ties were examined, and soveral of them brought to the company's office in Chicago. Some of them were found in good state of preservation, while others that had been rejected were found sound within, but were rotten on the surface where exposed to the wet. Hemlock is considered very poor as re gards its preserving qualities. It is also claimed that it usually commences decaying in the center. Near these hemlock ties were some oak ties that were laid in 1873, some of which were badly decayed. Upon these specimen tics had been laid at the same time steel rails from Eng land, where they still remain, they also having been placed there on test.

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RAFTING OPERATIONS AT THE FRED-ERICTON BOOMS.

THE LUNDER CUT ON THE ST. JOHN AND ITS TRIDUTARIES.

One of the grandest sights to be seen in the Province and one that would well reward a journey of many miles, is the enormous mass of Jogs, estimated at over 50,000,000 feet, at prosent lying in the new boom of the Fredericton Boom Company at Sugar Island, above Fredericton. A fine view of the logs can be obtained from the Keswick bank, which, at this point. ri es to a considerable height above the level of the river. Competent judges pronounce it to he the largest mass of logs over collected together on the St. John. The logs lie in a natural pocket, the sides of which are formed by the mainland and the Island shore, with the has resting upon and being supported by enormons piers built up from the flat rock bottom of the river, a height of 28 feet, the larger ones being each loaded with over 150 cords of stona. There are some 14 piers all told, including side piers to which booms are hung to keep the loga off the low parts of the Island shore, and a few supporting piers on the main shore. The break ing up of the ice at an unusually early period last spring, provented the completion of all the proposed piers, and it was feared by some that the boom would, therefore, prove too weak to hold the great run of logs, but these fears fortunately turned out to be groundless, though the boom was tested by one of the greatest freshets over known on the river. When the grand rush of logs came, the current was so strong that after the boom had partially filled the logs began to 'run under," and at such a rate that for three days there was little or no increase on the surface, nullion after million disappearing from sight as soon as they touched the edge of the jam-the consequence being that the logs as they now lie in the beem are piled to a depth of twenty-five feet. Had the water risen above office, &c. the tops of the piers the booms would have been torn away and the great mass of logs, thrown into the current, would have swopt all before it, wrecking the old Fredericton boom miles below, and strewing the shores of the river on down through Sunbury and Queens. As it was, the water came within a few feet of the top of the piers, which, though built on the flat sand-stone bottom of the river, were so strongly constructed and heavily weighted with stone that they nobly withstool the enormous and somewhat unexpected strain. It is the intention of the agent of the company, Stephen Glasier, Esq., under whose personal direction this boom (as well as all the others along the river) was constructed, to further strongthen it next winter. and to raise the piers five feet higher. The boom space at Sugar Island is from two to three miles long, and, if required, 100,000,000, or double the amount now in the boom, can be held there. The logs are conducted into the Sugar Island boom from the natural channel of the river by means of Pond's sheer booms, an invention that has to a great extent

REVOLUTIONIZED THE RUNNING AND DRIVING of lumber on the St. John. Formerly the locs floated down with the current, great numbers being deposited on low lands where they were left high and dry by the receding freshet, only to be removed later in the season by the "stream drivers" with great labor and at considerable expense. In addition to the delay thus caused in getting the logs to market, the log owners had to indemnify the farmers for the damage to their intervale and island lands caused by the deposit and removal of the drift logs. Now, sheer booms, placed at various points along the upper St. John and its chief tributaries, keep the logs in the current of the river and carry them by the low lands, on which they would otherwise lodge. Not only is the work of stream driving thus reduced to a minimum, but the logs are hurried on to the Fredericton booms, and consequently to market, at a much earlier date than by the old method. The almost simultaneous arrival at the booms of the great mass of the cut on the upper waters has necessitated a radical change of operations on the part of the

WEDERICTON BOOM COMPANY, more is which has been successfully carried out this fall of v season on a large scale. In former years the streams.

soveral booms below Fredericton on the Lincoln and Maugorvillo shores were sufficient to meet the demand, the first run being rafted so as to make room for successive arrivals, but when the drives began to come in more rapidly it was found nocessary to provide more extended boom facilities. The old been ground had been well chosen, though despite all precautions the booms run of logs in the spring, supplemented by high winds and heavy freshets, entailing an outlay for the recovery of the logs along the shores of Sunbury and Queens that materially reduced the profits of the company. There were other localities, of course, that might have been chosen for the booms, less exposed to the rake of the wind and sweep of the freshet currents, but they lacked one great essential-the current would carry the running logs away from, instead of into them. But oven this seemingly insurmountable obstacle has been mot and overcome by the application of Pond's sheer booms, an invention whereby the course of running logs can be directed towards either shore at will, despite the set of the current. After a series of experiments with the sheer boom, it was decided to locate a large boom on the Douglas shore, between the island and the main land, into which logs could be directed by a sheer boom placed at the head of the island. This boom is attached to thirteen jam and seven sunken piers, is about two and a half miles in length. and will hold nearly forty million feet. This vonture proved to be a decided success, proving conclueively that the company acted wisely, when onlarging their facilities, in selecting a site at Douglas. Rafting operations were carried on there with great rapidity last summer, the only drawback being the delay caused by the unusual lowness of the water at one time. In addition to the booms there, the company put up suitable buildings for the accommodation of the men, a cook house, stables, business

The addition of the Douglas boom enabled the company to successfully catch, hold and raft all the logs cut for the past two or three years; but the indications of an increased output for 1881 lead the company to make a still further enlargement to meet the requirements of this season's operations. To this end, the boom at Sugar Island, above described, was constructed last winter, and it has proved to be one of the best moves ever made by the company.

THE SEASON'S WORK.

The operations of the Fredericton Boom Company this season have been on an unusually large scale. They have, so far, received some 125,000,000 ft., divided as follows: 50,000,-000 in the Sugar Island boom ; 30,000,000 in the Douglas boom, and the balance in the Gill, Glasier, Sterling and Mitchell booms, below Fredericton. Some idea of the extent of their operations may be formed when it is stated that it is about 18 miles from the foot of the Mitchell boom in Lincoln to the head of the boom at Sugar Island. None of these booms in any way interfere with the free navigation of the river cither above or below Fredericton. The company employ some 250 men this season, including drivers and sheer boom men. Rafting operations are carried on at Douglas, where 200 joints per day are made up, and at the Mitchell boom, below Fredericton, where the day's work averages about 140 joints. One hundred men are working at Douglas and about eighty men at the Mitchell boom. The logs in the Suger Island boom will be run down to the Douglas boom, some little distance below, and rafted there as fast as possible. The Douglas boom is so constructed that rafts from the Keswick, at its head, can be floated down through into deep water below, for towing to market. It is expected that all the logs in the Mitchell boom will be rafted in about a week, when the crew of rafters will be transferred to the old rafting ground at the Glasier boom. The cutire operations are in charge of Stephen Glasier, Esq., the veteran agent of the company, and so far this season without the loss of a single log.

It is estimated that there are about 20,000, 000 y_{C} to come down the river, though much more is hung up high and dry by the sudden fall of water in the main river and tributary treams.

OTHER OFFICATIONS.

and Maugorvillo shores were sufficient to meet the demand, the first run being rafted so as to make recome for successive arrivals, but when the drives began to come in more rapidly it was found necessary to provide more extended beam facilities. The old beam ground had been well chosen, though despite all precautions the beam were occasionally broken by the pressure of the winds and heavy freshets, entailing an outlay for the recovery of the logs along the shores of Sunbury and Queens that materially reduced the profits of the company. There were other localities, of course, that might have been chosen for the booms, loss exposed to the rate of the figure. They are being sawed at his mills on the Nashwaak, and at Morrison and Robinson's mills below Fredericton.

The output on the Keswick river this season is estimated at about five millions, all of which will be rafted on that river.

A caroful estimate, based on the most reliable information, shows that independent of Mr. Gibson's operations, about two hundred million feet have been cut on the St. John and its tributaries during the past winter.

The tugbeats of Messre, D. D. Glasier & Son are all at work towing rafts down to this port. The water is unusually low for the time of year, much to the annoyance of operators on small streamy.—St. John Sun.

NEW INDUSTRIES.

Two gentlemen intend to apply to the Council at their next meeting for exemption for a term of years for an extensive tannery which they propose establishing in Toronto.

Less expected that in about four months an important new industry will be in full running order in this city. An application has been made for a charter to incorporate the "Toronto Grapo Sugar Company," having a capital of \$200,000, the applicants being the Hon. Thomas N. Gibbs, Oshawa ; Mossrs. James Michie, John Loyes, James McGhee, James S. Holt, Toronto; and E. P. Stikes, Buffalo. Plans are being pro pared for a factory with a capacity to use 2,000 bushels of corn per dicia, and so arranged that it could be enlarged to a capacity of 5,000 bushels. The factory will be erected on the Esplenade, on the water lots granted by the City Council three weeks ago to Mr. Holt for that purpose. Arrangements will be made so that corn and coal can be received direct into the factory from all the railways or by boat on the water side, and goods will be shipped in the same manner. The refinery will be eight stories high, with an elevator tower on top, and will be

high, with an cloantor tower on top, and will be built of brick with stone foundations on piles driven into the rock. To get the buildings erected as rapidly as possible the electric light may be used, so that building operations may be carried on both day and night. The company will employ about 150 hands, and the best skilled experts have been secured. The latest pat onts and improvements will also be introduced. The property has been exempted from .axation by the City Council and a 21 years' lease of the water lots, 133 feet by 375 feet, obtained at a nominal rental.—Toronto Globe.

Two Thousand Dollars.

The easiest, cheapest and best way to secure the above amount is to apply for membership in the Mutual Benefit Association of Rochester, N.Y. Pay Dr. S. B. Pollard, 56 Bay Street, one dollar for four medical examinations, he will send your application to the head office, if you are accepted as a member they will issue a certificate of membership, which, on payment of eight dollars, entitles you to full benefits as a member, should you die to morrow, next day, next week, next month, or any time within three months, this Association will pay to your heirs, or assigns, the sum of two thousand dollars. At the expiration of the three months all you have to do is to pay your pro rata amount, which is from 20 to 75 cents on the death of some other member, who has done nothing worse than to die during the three months just past. By paying your assessments on deaths, you keep your certificate alive, and at the commoncement of the second year you are assessed two dollars per thousand to keep up office expenses, etc., for the next year. No casier, surer or better schemes to carry two No thousand dollars has over been devised than the Mutual Benefit Associates, of Rochester, N.Y.



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MR. A. L. W. EEGG has been appointed agent for th CANADA LUNBERMAN, and is authorized to collect sub scriptions and grant receipts therefor and to make con tracts for advertisements appearing in its columns.

The Canada Lumberman DEVOTED TO THE LUMBER AND TIMBER

INTERESTS OF THE DOMINION.

PUBLISHED SEMI-MONTHLY BY TOKER & Co. PETERBOROUGH

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All communications, orders and remittances should be addressed and made payable to Tousa & Co., Peter-Lorough, Ont

Communications intended for insertion in the CANADA LUNBERMAN, must be accompanied by the name of the writer, not necessarily for publication, but as a guarantee of good faith. Communications to insure insertion (if accepted) in the following number, should be in the hands of the publishers a week before the Note of the next issue

PETERBOROUGH. Ont. JULY 15, 1881.

THE Ottawa Free Press, in speaking of THE CANADA LUMBERMAN, says :- "It is a splendid industrial publication, devoted mainly to the lumbering business."

LUMBER is very firm at Davenport, and some lots are sold above present list; a few days of dry weather and the advance will become general on all common or low grades.

A MINNESOTA lumberman estimates that Manitoba alono will take 40,000,000 of lumber from that state this season. If that proves to

be so, our friends of the saw in the west must be having a good time of it.

EASTERN buyers are reported as operating largely in the west just now, and are securing all the lumber they can in Michigan at an advance of from one to three dollars per thousand as compared with the prices ruling in **January** 1880.

THE Northwestern Lumberman is our authority for stating that manufacturers and buyers in the west have discovered that the lumber made from maple logs cut in winter and sawn before the 1st of July, is worth \$2 a thousand more than if the sawing bo done after the date named.

THE yards throughout St. Louis all report a fine trade, with brilliant prospects for the future. Figures on white pine grades are very firm, with a strong tendency toward advance. Quotations on yellow pine are very low, and still falling. The advance of from 50c. to \$1 per 1,000 feet on white pine in Chicago, and a change will naturally be followed at St. Louis his position, and assumed control of the busiin the next ten or fifteen days, if not sooner,

A STRAN NILL is to be erected at Wood Point, by the Bay of Fundy Quarrying Co. The building will by 60x40, the engine 60 horse-power. It is the intention of the Company to saw dimensions and other lumber for the Boston and Now York markets, to be shipped with their cargoes of stone.

FROM Manchester, N.H., we are informed

that there is a large increase in the lumber trade in that section this year as compared with former years. Local mills are doing a large trade in hemlock and spruce which are still to be had in large quantities in the northern part of that State and in Vermont, while their chief supply of codar shingles come from Sherbrooke, Quebec, and retail at \$3.50 to \$4.25 per 1,000.

MR. J. R. BARBER, of Georgetown, has paid the membership fee of the Mechanics' Institute of that town for forty of his employees. This is certainly commendable, and we know many omployers who would not miss the amount thus expended. Indeed we are quite sure that if more encouragement were given young men there would be less carousing and drinking and more work performed.

WE have been aware for some time that negotiations were pending for the sale of the entire lumbering property of Messrs. McDougall & Co., Harwood, to Mr. R. C. Smith, of Fenelon Falls, and we are now in a position to state that the sale has been completed, and that Mr. Smith is now in full possession. We also understand that Mr. Smith has some idea of transferring the machinery now in the mill at Harwood to the French River, where he owns oxtensive limits.

A LARGE lumber business is being carried on by parties in Bridgewater, Nova Scotia. Messra, E. D. Davison & Son's two mills will cut during the season 15,000,000 feet of lumber ; Dufus & Co.'s mill at Summerside will cut 6,000,000; C. H. Chase expects to cut 2,500,000 ; Alex. Nolson will cut 1,000,000 ft.; Jas. A. Curll expects also to cut 1,000,000 feet, a total of 25,500, 000 feet lumber, a gain of about eight per cent. This gives employment to 700 men, and supports 3,000 people. This is good for the County of Lunenburg._

OUR readers will have noticed that for some been a dull and drooping timber market. Notwithstanding that every market, except those depending upon the British market, on this side of the Atlansic has been firm with a decidedly upward tendency. Under such a state of affairs is does seem to us somewhat strange that our eastern shippers, and especially those of New Brunswick, do not turn their attention to the "booming" markets in the Eastern States. Even if they netted no more money by shipping to the latter market than they would by ship ping across the Atlantic, such shipments would ralieve the British market from its present glutted state, and doubtless secure for them botter prices for what they did sond there.

THE lumber business of McGraw & Co., at Tonawanda, has been transferred to the Export Lumber Company, (limited) of 87 Wall street, New York, having been purchased by that con cern. The company is a very extensive firm, and one of the largest buyers in the castern market, and Tonswandians are jubilant over the acquisition to their business interests. The company possesses a capital of \$150,000, and transacts mostly an export business, as its name indicates. It has leased, for a number of years, from the McGraw estate, the eligible and desirable docks and river front owned by them at Tonawanda, giving it excellent facilities for receiving lumber or forwarding it, either by rail or canal. The concern has bonded yards at Hunter's Point, Long Island, and Hochelaga dock, Montreal, in addition to its New York branches, and its fine property in Tonawanda. The yards at Tonawanda will be stocked up at once with the product of the western mills. Mr. Mackintosh is to be the local manager, and has already entered upon the duties connected with I ness.

EXPLORATIONS ON THE UPPER OTTAWA

We learn from the Toronto Globe that about the 20th of June Mr. Niven, P.L.S., of Haliburton, was despatched on an exploratory survoy of the country north of Lake Nipissing. He took with him two exploring parties, and expocts to occupy about three months in the work. The district to be explored commences about twolve miles north of the lake, and extends northward to Lake Tamagamingue, which lies half way between Lake Nipissing and Lako Tamiscamingue, where the Ottawa takes its rise. The Ottawa on the east and Wahnapitacping and the Wahnapitac River on the wost are the utmost limits of this exploration, which includes an area of sixty miles in length between these limits, by a breadth north and south of twenty-four miles. An exploration of this kind has not been made in this Province for very many years, the work of filling in the rough outlines of the early explorers having occupied the attention of the Crown Lands Department.

THE OBJECT OF THE EXPLORATION.

The question of timber limits has no doubt something to do with the exploration, but the meagre information regarding the soil and climate of this territory has been such as to lead to a desire to know something definito regarding its capacity as a grain growing district. What little is known indicates that the soil is possibly better than on the Ottawa south of Matawan, and the climate sufficiently warm for the cultivation of wheat. In the instructions given to Mr. Nivon the objects of the exploration are set forth as follows :---

1. To run the outlines in a block of certain townships, to act hereafter as a base in their subdivision.

2. To ascertain by exploration as far as prac ticable the general nature of the soil, timber, minerals, &c., in the field of operations.

MR. NIVEN'S INSTRUCTIONS. Many of the instructions given Mr. Niven aroen minor details, which, however important to the department, have little interest for the public. Other instructions are of a general character, leaving much to the exercise of the common sense of the explorer. It is the intention of the Government to extend through this territory the same system of survery as is in existence on the north shore of Lake Huron, and this information is a guide for the general outlines to be mapped by Mr. Niven. The detime past the universal cry from Britain has parting point of the exploring party is the northcast angle of the new township of Field. From this angle a line is to be drawn due north, and at intervals of six miles posts are to be planted, and other indications made to guide future sur voyors in laying out townships. Six miles north of the angle referred to a base line is to be drawn to the west, and a similar plan adopted in marking for the north and south bound aries of the townships. By a base line to the east and other lines at right anges to it, the whole district is to be laid out as a base for future sub-divisions.

Mr. Niven is also instructed to explore for six miles on each side of his base lines, and for this purpose he is to select fit men, with a good knowledge of land suitable for agricultural purposes, and of trees suitable for merchantable timber. These men are also to have considerable facility in keeping notes of their explora tions, and in the use of the pocket compass. The natural features of the country are to be shown, and Mr. Niven has also to examine the rock formation, collect small specimens of fixed rocks, attaching to each a number and notting in his field-book the exact locality in which each specimen has been found. If the rock is stratified its dip is also to be observed. He is also to ascertain by ostronomical observations the latitude of different points, and, if time permit, is to skotch in the position and extent of Lake Tamagaminque.

Reading the Ads.

Our readers will find items of interest in our advertising columns. Among our regular advertisers will be found such a variety of essentials, with the various other matters directly connected therewith, that a careful perusal will in nearly every case develope something in the way of information that must become directly valuable to our readers.

THE FUTURE OF LUMBER.

So much has been written and said concerning the rapidity with which our forests are being folled in lumbering operations that it would not be surprising if corners in the wood market were, ere long, attempted. It has in a number of cases, been "ciphered out" that our timber supplies will be exhausted within thirty years, if the present rate of lumber production is maintained, some writers have even placed the ovil day no farther off than twenty years, Worp these creakers in a position to verify their predictions, the situation would be, indeed, alarming, but, as the trade has not as yet experienced any lack of material with which to operate, it may be assumed by outsiders, that no grave apprehensions as to the future are entertained by those most vitally interested.

That our production and consumption of lumbor is enormous, must be obvious to the most casual thinker; that our present sources of supply must eventually be abandoned is freely admitted, but the Lumber World does not anticinate that its children's children will be compelled to forego the comfort and elegance of a walking stick, or dine off cast iron tables. It should be remembered when " exhaustion of our timber supplies" is spoken of, that pine is generally referred to, but there is yet standing in the states of Wisconsin, Michigan and Minnesota a sufficient supply to most the demands for a great many years to come. The timbered region of Toxas is also immense, while Georgia is, and has been for many years, a great lumber producing state. Even Pennsylvania has thousands upon thousands of acres of timber lands in which the ring of the woodman's axe has never been heard, and away down in Maine large amounts of lumber are being, and for many years to come will continue to be, produced. It is true that the cost of log getting is yearly increasing, owing to the necessity for going farther and farther inland, away from the rivers and streams, and, because the distance logs must be hauled before banking, is yearly becoming greater. This, however, should by no means be accepted as indicating an alarming decrease in our timber supply, but, rather, as ovidencing an increase in its value.

Our importations of Canadian lumber, while already of respectable proportions, are small in comparison to what they might, and in the not far distant future, probably will be. Were it not for our protective tariff, it is doubtful if western pine would command much attention in eastern markets, and it requires no prophet to son that if western pine becomes so scarce as to advance in price, beyond the limit at which the Canadian article, paying duty, can be profitably imported, then will Canadian pine usurp and hold the position of prominence, and, as one of our contemporaries puts it, immenso as the present accessible sources of lumber in Canada are known to be, recent explorations have shown that the vast solitude to the south and west of Hudson Bsy is an almost unbroken forest of white and rod pine and their congeners. This region, which the imagination, in default of accurate information, has pictured as the mother of icebergs and the home of polar bears, is now found to be one highly inviting, if not to the farmer, at least to the lumberman. Ice and snow for one-half the year are his hand-maidens. Through their assistance he is enabled to "skid" and "bank" his logs along the streams on which, when the spring thaw comes, they are borne without appreciable cost to the point o manufacture on the coast .- Lumber World.

AN iron stermship of 1,500 tons, named the Campana, has been bought in England and is to be placed on the Lake Superior route from Collingwood to Duluth. She sailed from London on June 27th for Idontreal, is of light draft, and generally adapted for lake traffic.

SEVERAL mills owners in the County of Simcos have been fined for allowing sawdust from their mills to get into the streams, among them are Wm. Train, Thomsonville, and Tackaberry, of Tocumseth. The former was fined twice.

B. YOUNO'S saw mill at Apple River, N.B., was burned two weeks ago, with some lumber in proximity. The sleds and camps in the woods, used by the men, were fired at the same time. Incondiariam is believed to have been the cause.

IDLE CAPITAL.

La Minerre, of Montreal, calls attention to a very important question in the general interest. We refer to the very large amount of capital which has accumulated and is actually lying idle in our banks. And as our contemporary remarks, the ovil continues to steadily increase, the deposits largely exceeding the amount of the paid up capital and revenue and constituting nearly the half of the general fund of our banks. According to the last report the state of the Quebec and Ontario Banks stood as follows :-Notes in circulation..... 24,974,693

The first of the above sums is the exclusive property of the banks themselves, and the shareholders are interested in its management. But the administration of the remainder is a subject of general interest; for the country at large is concerned in the deposits and circulation. It appears by the bank statements to the end of December that more than half of the general fund of the banks is held in reserve by them, or something more than the deposits. It is very much to be desired that a portion at least of this enormous amount of idlo capital should find employment to benefit the country. We here touch upon a very great and delicate questionthe monetary circulation. Can we believe that the hard times have passed away altogether, while so much monoy is laying idle, so to say, held captive by fear or the lack of advantageous issues? With prospority already returned, what would be the state of affairs if all our resources were brought into play. It is true that the banks have only a limited control over deposits and that it was only with difficulty that they can touch them. And the proof that they hardly over do so, and that they are always ready to pay them on call is to be found in the largeness of their reserves. In reality, these moneys are private property, only placed there as a measure of safety, and its owners would not allow the banks to risk it in an industry which they do not dare to invest it themselves. In the merntime, what might not be done for the good of the country with these vast heards? It is to behoped that as industry increases, confidence in industrial investments will revive and our capitalists will more largely place their money in them, instead of locking it up in the banks or converting it into bank shares.-Quebec Budget.

TRADES' UNION DESPOTISM.

It is practically demonstrated that the 'Trades' Union organization, so far as to increase the wages of employes, is a dead failure. The loss by strikes to the individuals is very serious in many families, and to the country at large it is enormous. Any effort that shall wipe out this herosy and open the eyes of the blind will be a great blessing. If manufacturers and employers generally would consult the interest of all concerned, by agreeing on a course of combined action to resist this most oppressive dcs. potism, they would do a great service. Suppose first, that they would resolve to give a preference to non-union men in employing operitives, and suppose, secondly, that they would give as wages ten per cent. more to non-union mon than to those belonging to the union. Non-union men are preferable, because they are not liable to be called off from work at any time when a strike is ordered. They are their own masters, and can stop work when they think best and not at the dictation of others. Look at the present strike in the city of New York-hundreds walking the streets, and instead of getting \$10 to \$20 per wock, get nothing but a pittance handed to them as an act of charity / Instead of earning their support by honest work, they are lounging and others work to feed them ! In fact, they fill the bill as first-class paupers instead of honest, industrious mochanics.

When men can lift themselves up by their thirt collars, then they may be able to increase inst collars, then they may be able to increase their wages by joining unions. Supply and de-mand will over, as it always has, fix the price paid for labor. It is inevitable, and the most ingenious combinations cannot provent it. The door in this country is opened very wide to the industrious. On every hand industry is assured a good living, if not "reast beef and plum pud-ing every day," sufficient that is good and

wholesome. Besides, there are millions of scree of land ready to yield an abundant supply of the necessaries of life." Who are these that get up trades' unions, pretending that capital is opprossing the laborer. Capital and labor must act in unison : one is necessary for the other ; in fact, labor creates capital, why then should men attempt to array one against the other ? Simply from interested motives t If each individual would take care of himself and not surrender, a willing slave, to stop work at command, he would not only be better off but independent. Why sacrifice our independence and move at the bidding of others. "Men and brothren, think of those things."-Boston Journal of Commerce.

READER HAVE YOU TRIED every known remody for Chronic diseases, Impure Blood, disordered Liver or Kidnors, nervous and General Debility, Constitution of the Boweld, with the manifold sufferings pertaining thoreto? Have you given up in despair? Try Bur-dock Blood Bitters; it will not fail you. A trial bottle only costs 10 cents, regular size \$1. Any dealer in medicine can supply you.

A BARGAIN-GRIST AND SAW MILL FOR SALE, paying 12 per cent. clear : price \$9,000; and above percontage guaranteed. Apply to

JOSEPH DAVIES & Co., iber, Coal, & Commission Merchants, Lum 46 CHURCH ST. TORONTO. 1yL16

Wanted.

A SECOND HAND DOUBLE EDGER ; also a LATH MACHINE, both in good repair. Reply stating lowest cash terms or particulars to Box 1002, Veterborough.110

For Sale. A 40 INCH LEFFELL WHEEL and COMPLETE CIRCULAR HIO, all in good order, suitable for a fifteen foot head. Apply to Box 1002, Peterborough. 110

> Orillia House. ORILLIA

New and Commodious Brick Building ; best north o Toronto; splendid sample rooms; centrally located; free bus, b20 JOHN KELLY, Proprietor.



St. Lawrence Hall, POBT HOPE.

Is noted for its superior home-like comforts—a well kept table, equalling the best hotels in Toronto, and large, well-furnished rooms. Good sample rooms on ground flour. Walton Street, Fort Hope. best WM. MACKIE Propr. detor.

Caledonian Hotel. GRAVENHURST,

JOHN SHARPE, Proprietor. This Hotel has been newly opened out, pleasantly situated on Main Street, within five minutes walk of Northern Hallway station. Bar kept with best amovied Wines, Liquors and Cigars, Every attention paid to guests. Good Stabling, JyLif

St. Louis Hotel. THE RUSSELL HOTEL CO., Proprietors. WILLIS RUSSELL, Prcs., Queboc.

This hotel, which is unrivalied for size, style and locality in Quebec, is open throughout the year for pleasure and business travel. bis

Queen's Hotel. BRACEBRIDGE.

JOHN HIGONS, Proprietor. The proprietor (late of Georgetawn.) having lately purchased the above hotel.) will endeavor to make it one of the best houses in the District of Muskeka. Tourists and hunting par-tics will receive every possible attention. Froe bus to and from steamboat wharf. Terms, \$1 per day. b20

The American Hotel, BARRIE, ONT.

Collier Street, Adjoining the Market. RATES REASONABLE, CENTRAL LOCATION, FREE BUS TO AND FROM ALL TRAINS.

AT Every accommodation for Commercial and LUMBERMEN.

Fraser's Hotel.

GRAVENHURST, ONT.

Northey's Steam Pump Works

BOILER FEED PUMPS. AIR AND CIRCULATING PUMPS. STEAM FIRE PUMPS, and WRECKING PUMPS.

MINING PUMPS. PUMPS SPECIALLY ADAPTED for OIL PIPE LINES, And CITY WATER WORKS.

No. 47 King William Street.

HAMILTON, ONTARIO. SEND FOR CIRCUL

Wrought Iron Shanty Cook Stoves

The Best Article ever offered to the Trade.

I have much pleasure in drawing attention to my WROUGHT IRON COOKING STOVE. for Shanty, Hotel and Boarding House use. These Sloves are made of Heavy Sheet Iron, the top and lining of the fire-box being of Heavy Cast Metal and all the connecting parts of substantial Wrought Iron Work. The dimensions of these Stoves are as follows :

SINGLE OVEN STOVE

Top surface contains six 10-inch holes, with ample room between, and one oven 10 x 21 x 25,

DOUBLE OVEN STOVE

The Double Oven has a top surface containing twelve 10-inch pot holes, with two ovens, each 16 The bound oven has a open need containing twerve to main potnoic, with twervens, each as $x 24 \times 20$. One freebox of suitable size for area to be heated. Below will be found Testimonials from some of the leading Lumbermen, who have used my Wrought Iron Cook Stoves since I ommenced manufacturing them. They are the names of gentlemen who are well known ellable, and will carry more weight than any recommendation of my own could do.

The Best Stove I have ever Used. Paranboroball, May 31, 1880.

ADAM HALL, Esq., Peterborough. Doar Sir. -- I have used your Wrought Iron Cooking Stove in our lumber ing operations since its introduction here, and have no hesitation in saying that I prefer it to any other. For durability, economy and efficiency, where a large number of men are employed, it is the best stove I have ever used. You can, with confidence, offer it to hotels, bearling houses and lumbermen. Yours truly, THOS. GEO. HAZLITT.

The Stove for Lumbermen, l'arannorouon, Juno 1st, 1850.

ADAM HALL, Bur, Peterborough. My Dear Sir, -We have used your Wrought Iron Cooking Stove and find It is very satufactory for lumber operations, especially so on drives. We can recommend it highly Yours truly, IRWIN & BOYD,

Gives the Greatest Satisfaction.

A. HALL, Peterborough. Dear Sir, -- I have had the Wrought Iron Cook Store, purchased from 2 or, in con-etant use ever since last fall, and it gives the greatest satisfaction in every respect. I can recommend them highly to any one who is in the lumber business. Very truly yours, GEO, HILLLARD, M.P.

EVERY STOVE GUARANTEED

All the necessary TINWARE and CUTLERY for Shanties suppled at the Lowest Prices.

ADAM HALL, Peterborough.



The QUEEN'S HOTEL, TORONTO, CANADA McGAW & WINNETT, Proprietors.

Patre lized by Royalty and the best families. Prices graduated according to rooms, b20

Chips.

WHEN they build a now saw mill the first thing they do to popularize it is to send circulars around. That indicates business.

SOME days ago Messrs. Hamilton & Dunlop, of Brantford, made a shipment of nativo wines to San Francisco. These wines are the growth of the Vin Villa Vineyard, and are becoming more popular as they are better known.

ROBERT GRIFFIN, for some time in the employ of Mosers. H. B. Rathbun & Son as bookkeeper at Napanee, was arrested in Montrual on the 30th ult., on the charge of misappropriating monies passing through his hands. The deficit so far as known at the time of his arrest, footed up some \$000.

It is an interesting circumstance, in connection with development of our manufactures, to learn that Messrs. Belding, Paul & Co., manufacturers of silk in Montreal, have brought to this country an experienced weaver from Coventry, the soat of silk weaving in England, and are beginning to make silk ribbons under his management.

THE MOSSES. Shaw, the great American tanners, have bought the Foundry block, near Woodstock, N.B., containing 8,500 acros, as we l as another block north of it, for \$30,000. They have bought this land on account of the hemlock trees which are growing on it. We understand that bark was lately worth on the cars in Massachusetts, \$12 per cord.-Capital.

The pulp factory at Sherbrooke, of Messrs. Forguson & Co., has met with marked success since its establishment, and is now running night and day, turning out thirty tons a week, nearly all of which goes to Now England paper makers. Spruce lumber is used altogether for producing pulp, and the factory, which has 800 available horse-power, runs five "grinders" and three " wet machines."

A quantity of worsted combing machinery is being put into D. McC v & Co's factory at Guelph, which is to work on Canadian wools. Those machines are very valuable and have been rought from Great Britain specially for manufacturing yarns of the Canadian long wool, which formerly had to be sent to the United States to be made up. In order to make room for the new machinery the offices of the firm have been removed to an adjoining building.

PROF. N. H. WINCHELL, state geologist of Minnesota, estimates the amount of pine lumber suitable for manufacturing, still standing in that state, at 5,760,000,000 feet. This includes the several Indian reservations, on which are many millions of feet of excellent pine, and a tract on the Big Fork river, whose waters are now drained into the Rainy Lake river, and it seems from the facts obtained, the 250,000,000 or 300,000,000 feet on that stream, Bowstring Lake and the tributaries thereto, may be floated down the Mississippi,-Lumber World.

MESSRS. A. W. OGILVIE & Co., of the Glenora Mills, Montreal, have just completed rebuilding their extensive mills on the Lachine Canal, and have adopted the new Hungarian Roller process in its entirety. The plans were made by Messre. E. Pallis & Co., of Milwaukee, who have fitted out a large number of mills in the States, and the mill contains sixty-six of the new roller machines, with all the accompanying appurtonances, affording a capacity of 750 barrols a day. The Messrs. Ogilvie are creeting a mill at Winnipeg, intonded to be a counterpart of the above.

THE business of the Grand Trunk Railway was never more active than now, especially the portion of its lines in Western Ontario. Λ Stratford paper of last week describes the situation as especially lively on Tuesday, which, it avers, was the heaviest day over known on the road. In addition to the regular trains between Sarnia and Stratford, there were 19 special freight trains, the total number arriving at and leaving Stratford station during the 24 hours being 144, of which 27 were passenger trains. This averaged one for every 23 minutes, and there was not an hour's detention, a record unprocedented for a single track, and creditable from the flesh side, as the belt adheres more to the staff who handled such a bulk of traffic so [closely to the pulley ; but there is this about it expeditionsly.

RE-SAWING LUMBER.

There is yet to be further improvement in the manufacture and distributiony of lumber in this country, and there are some reasons for expecting it will come in the adoption of the English system of cutting timber into deals and the re-sawing nearer the point of consumption. While wood is so abundant and comparatively cheap as now, the present plan of cutting at the forest mills lumber of all the thicknesses desired in consumption will probably be continued. But when timber becomes scarcor and advances in price correspondingly, it will not do to waste one-fourth of the woel in cuting it into inch boards. Thinner saws will be required, saws cutting with greater regularity as to thickness and securing a surface that will not have to be cut oway so much in planing. The circular saw, with its quarter inch set, its wastoful kirf and production of rough and furrowed surfaces, will be laid aside except for slabbing, and the gang saw along be used in the Torest mills for producing plank deals or cants. These will be transported to the lumber marts, or points of distribution, and re-sawed with the thinner and most perfect saws which can be produced Every sexteenth of an inch sawed in the width of the ker! saves one thousand feet of lumber in every sixteen sawed. Another reason which will demand the production at the forest mills of deals instead of lumber cut to the various thicknesses in use, when timber shall become more valuable, will be the saving in the cost of transportation. As lumber advances in price the comomy of handling and transportation will be a matter requiring more consideration. Deals can be transported more cheaply than inch boards, for one reason because they can be handled with less labor. Another advantage a re-sawing would be that the necessity of keeping on hand larger stocks in order to have the necessary assortments would be reduced, as the dimensions needed could be cut from deals on hand. Re-sawing will produce smoother lumber, Lecause thinner saws may be used and run at a greater speed. The change in the manner of cutting and distributing lumber may not be immediately at hand, but it will take not many years hence. It will, no doubt, come on gradually; but as the manufacture of lumber receiles from the means of cheap transportation by water and the railroads have to be depended on, the cutting of their lumber at the mills will gradually cease, except for near-by-points .--Lumberman's Gazette.

DIRECTIONS FOR THE USE OF BELTS. The putting on of belts should be done by a person acquainted with the use of belting, and too much judgment cannot be exercised in this respect, as the wear of the belt depends considerably on the manuer in which it is put on, therefore the following suggestions, if practiced, will be of much service to person, in this capacity. The butts to be joined together should be cut perfectly square with the belt, in order that one side of the band may not be drawn tighter than the other. For the joining of belts, good laco-leather, if properly used, being soft and pliable, will always give satisfaction. Where belts run vertically, they should always be drawn moderately tight, or the weight of the belt will not allow it to adhere closely to the lower pulley, but in all other cases they should be slack. In many instances the tearing out of lace holes is unjustly attributed to poor belting, when, in reality, the fault lies in having a belt too short, and trying to force it together by lacing, and the more leather has been stretched while being manufactured, the more liable it is to be complained of. All leather belting should occasionally be greased with the following mixture, or it may become dry and will not adhere to the pulleys: I gallon of neat's foot or tanner's oil, 1 gallon of tallow, 12 ounces of resin; dis, s lvo by heating and mix well together. During the winter season an extra quantity of oil should be added to the mixture. To obtain the greatest amount of power from belts the pulleys should be covered with leather; this will allow the belts to be run very slack, and give 25 per cent. beits to be run very sneed, and give 25 per cent, more wear. More power can be obtained from using the grain side of a belt to the pulley than from the flesh side, as the belt adheres more closely to the pulley; but there is this about it --the belt will not last half so long, for when using the grain side of a belt to the pulley than

the grain, which is very thin, is worn off, the substance of the belt is gone, and it then quickly gives out ; so that I would advise the more saving plan of obtaining power by driving with wider belts, and covering the pulleys with leather. Where belts are run in very damp places, or exposed to the weather. I would recommond the use of rubber belting; but for ordinary use it will not give the satisfaction which is so generally obtained from using oak leather belting, as it cannot be run on cono pulleys through forks or at half cross, and with fair usage would be worn out, while a leather belt was regularly performing the work allotted to it; for when the edge becomes worn, the belt soon gives out. - Van Riper.

THE CROSS-CUT SAW.

Ten years' experience in the use of cross-ent saws has proved to mothat I have been workingunder many disadvantages until recently. My wish is for all to know the great advantage of a plan which I pursue. Take a new saw that has nover been set, place it between two boards cut to fit the saw, clamp it tight on a bench or vice ; take an iron wedge, file one corner to suit the sot of the tooth when finished, then take a small hammer, hold the wedges with the left hand, strike the tooth lightly with the hammer until at the right place; then turn the wedge on the opposite side, and on the next tooth and set in the same way ; now then you reach the third and most important toth in the saw; leave it perfectly straight ; pass on to the fourth tooth and set as you did the first, turn the wodge, set the fifth the other way; leave the sixth straight, and so on till you finish. Now take your file, dress the two teeth as you do the common saw; the third file perfectly straight and square, leaving it about one-twentieth part of an inch shorter than the others. Continue in that way until you finish, and you will find that it will cut twice as fast as the old way practiced by most of the farmers.

BLACK WALNUT TREES.

Eli Perkins, the great American delusionist, has struct a bonanza for lumbermen in Texas Sim Graves, a native, has shown Eli a grove of black walnut trees, hand planted ten years ago, that have attained the respectable proportions of nino inches diameter, and which, he assured him, would be ninctoen inches through within twenty years from the date of planting. Sim and Eli then sat down and figured out the value of this grove, which contains ten acres. Each acro contains two hundred trees, or the whole patch two thousand. Sim says these trees will yield him four hundred bushels of nuts this year, which at \$2.50 per bushel will give nim \$1,000, and as this yield will increase instead of decrease, he reckons his future income at r. less than this sum per annum until the trees are twenty years of age. When that time arrives, Sim expects to sell his grove for \$25 per tree or \$50,000. Eli concludes his narrativo by advising the public to buy land at \$25 per acro and settle down as black walnut farmers.-Lumber World.

Usual Excellent Style.

Messrs. Toker & Co., Peterborough, Ont., have become proprietors of THE CANADA LUN-BERMAN, the first nine numbers of which were published in Toronto by Mr. Alexander Begg. The LUMEENMAN will be purely a trade organ, and is the only newspaper published in Canada devoted to the interests of the lumber and timber interests of the Dominion. It will contain trado statistics, the markets, articles bearing on the important interests it represents, and must prove itself a most excellent and trustworthy medium through which lumbermen, millers, miners, etc., may elucidate and set forth their ideas, either individually or collectively, for the benefit of the trade at large. It is a large semimonthly 16-page newspaper, and is printed from fine clear type, and the workmanship is in Mossrs. Tokor & Co's usual excellent style. The subscription price is only \$2 per annum.-Printers' Miscellany, St. John, N.B.

ARTIFICIAL BRASONING OF LUMBER.

Van Nostrands Engineering Magazine Ball in this important subject : To propare timber for the sounding bords of musical instruments, so that they are ne influenced by vibrations in temporaturo and atmospheric changes generally, Mr. C. Rene, pianoforto manufacturer, of Stettin, Germany, has dovised a plan by which he makes use of the property of oxygen, particularly of that ozonized by the electric current, to artificially season the timber. The first inpulse to experiments being carried out in the direction was given by the well-known fact the wood, which has been seasoned for years, is much more suitable for the manufacture of musical instruments than if used soon after it is thoroughly dried only. Mr. Reno claims that instruments made of wood which has been troated by oxygen possesses a remarkably fine tone, which not only does not decrease with ago, but as far as experience teaches improves with ago as does the tone of some famous old violins by Italian masters. We are further told that the sounding boards made of wood preparod in this manner have the quality of retaining the sound longer and more powerfully. A num ber of pianos monafactured at Mr. Renet works, and exported to the tropics several years ago, have stood exceedingly well, and seem in no way affected by the climatic dangers they are exposed to. While other methods of impregnatinh wood with chemicals generally have a detoriorating influence on the wood fibers, timber propared by this method, which is really an artificial agency, becomes harder and stronger. The process is, we understand, regularly carried on at Mr. Rene's works, and the apparatus consists of a hormetically closed boiler or tank, in which the wood to be treated by the process is placed on iron gratings; in a retort, placed by the side of the boiler and connected to it by a nipe with stop valve. Provision is made in the boiler to ozonize the oxygen by means of an electric current, and the boiler is then gently fired and kept hot for forty-eight or fifty hours, after which time the process of preservation of wood is complete.

SUMMER DRINKS.

The London Chemist and Druggist gives the following receipts for these seasonable bover ages :-11) Ginam Dem

l	(1) Ginger Deer.
	Brown sugar
	Boiling water 2 galls.
	Cream of tartar 1 oz.
	Ginger bruised 2 oz.
	Infuse the ginger in the boiling water, add
	the sugar and cream of tartar ; when lukewann,
	strain, then add one half pint good yeast. Let
	it stand all night; then bottle. If desired, a
Į	lemon ruay be added, and it may be clarified by
í	the white of one egg.

(2) Lemon Beer.

Sugar Boiling water 1 pound. 1 gall. Lemon, aliced . . . Ginger, bruised . . . Yeast 1 02. 1 teacupful. Let it stand 12 to 20 hours, after which it may be bottled.

(3) Hop Beer.

Sugar	•	•		•		•		•		•	4 lbs.	
Hops Water	•	•	٠		•		•		•	•	6 oz.	
Water	. •	. •		٠		•		•		•	q. x.	
Ginger,	, br	uiso	d		•				•	•	4 oz.	
					-				-			

Boil the hops three hours with 5 quarts of water, then strain ; add 5 more quarts of water and the ginger, boil a little longer, again strain, add the sugar, and when lukewarm add one pint of yeast. After 21 hours it will be ready for bottling. (A) Soruce Reev

	- V	ij opr	uce	DUC	F.		
llops Sassafras,	in	chips	•	•.	۰.	۰.	2 oz. 2 oz.

Water 10 galls. Boil half an hour, strain, and add :-

Brown sugar .					7 lbs.
Essence of spruce	•	•	٠	•	1 oz.
Essence of ginger	٠	•	•	•	1 07.
Pimento, ground	٠	٠	•	•	2 07.

Put the whole in a cask, and let cool; then add one half pint of yeast, let stand 24 hours, fine and bottle it.

BASSWOOD is scarce in Chicago just now, and dealers state that they can readily place all the seasoned they can get hold of without meeting the demand.

THE CANADA LUMBERMAN.

ST. JOHN, N.B.

From Our Own Correspondent. GENERAL REMARKS .- As usual at this season of the year, we have very little for special re mark in regard to the progress of our lumber trade. Under these circumstances a few obser vations with reference to the character of our wood trade generally may not be altogether out of place.

As will be seen by reference to our periodical report of shipmonts, Europo (and especially Great Britain) is the principal wood market of this port ; indeed the same may be said of the Privince generally ; our wood exports thence consisting very largely of spruce deals.

The lumber trade between this port and the United States is not altogether Canadian. It is almost exclusively in the hands of people from the States, who procure their logs from that portion of the State of Maine watered by the River St. John and tributarios, float them to St. John, where the lumber is manufactured and shipped to the United States as American lumber, and, consequently, free of duty, thus possessing a decided advantage over Canadian lamber, tending to the exclusion of the latter from the American market. There are some ten saw mills in this city and vicinity engaged in this business. The lumber is mostly pine, cut into boards and plank from one to two inches in thickness.

Our shipments to the West Indies, consisting of pine boards chiefly, are comparatively small, and mostly in the winter season.

FEERIORTS .- The freight market is extremely dull and rates very low. For Liverpool the latest quotation is 52/6.

SHIPMENTS .- The shipmonts of deals and other sawn lumber are as follows :-. For Europe...... 12,607,000 Sup. ft.

United States 2,875,000 West Indies 180,000 .. VESSELS IN PORT.-The following is a list of quare-rigged vessels in port with their tonnage

and destination :-Nettle Murphy, 1,373, Liverpool. William, 903, waiting. Douglas Campbell, 845, Marseilles. Granito City, 776, United Kingdom. Effort, 378, United Kingdom or Continent. Africa, 1,130, Cardiff. Wanderer, 438, Ireland. linano, 843, Belfast, Elanco, 343,-Josie Troop, 1,100, Gibraltar, onlers. Venus, 734. United Kingdom, Cecilia, 334, Continent. Nylghau, 1,254, Liverpool. Liffey, 845, Liverpool. Charles, 1,500, Liverpool. L H. D'Veber, 615, Londonderry John Murphy, 1,475, Liverpool. Bomto, 599, Galway. Broderine, 453, Marseilles, Taganrog, 514, Marseilles. Loining, S47, St. Nazaire. F. W. Gale, 320, Droghoda. Revolving Light, 1,317, Liverpool. Rebus, 845, Marseilles. Mark Twain, 674, Bristol Channel. Moss Glen, 893,-Varbjug, 401,-Acton, S.S., 1,066, W.C. England. New City, 1,441, Liverpool. Finsbury, S.S., 1,229, W.C. England. Astracana, 1,103, Liverpool. Arkle , 743,-Wacissa, S09. -Zebina Goudy, 1,100, Liverpool. Cid, S.S., 976, W.C. England. llawthorne, 621,-Dusty Ailler, 595, Carnarvon Fidelia, 450, Nellie Moody , 740,-Wearmouth, S.S., 1,101, W.C. England. Charles B. Kenney, 1,129, Adelaide, orders. Stirlingshire, 549,liabor. 300, Jennie Parker, 998. St. John, N.B., July 2nd, 1881.

A healthy man never thinks of his stomach. The dyspeptic thinks of nothing else. Indigestion is a constant reminder. The wise man who fads himself suffering will spend a few cents for a bottle of Zopesa, from Bra. il, the new and remarkable out of 2012 in the Braudy the new and remarkable compound for cleasing and toning the system, for satisfing the Digestive apparatus and the Liver to properly perform their duties in assimilating food, out a 10 cent sample of Zopeca, the new remedy, of four druggist. A few doses will surprise you.



٨T

Parry Harbour, Georgian Bay, and Valuable Timber Limits in the Parry Sound District.

The SAW-Mill, is complete in its appointment, and has a cutting equacity of 90,000 to 100,000 feet per day of twelve hours. The LiMITS cover an area of 250 smare noises in the Townships of Montelth, Humphray Christic, Ferguson, Hagerman, McKellar, Spence, and Shawanaga, besides the purchased rights to cut the Quieter from nutricous lots in the same Townships, and contain a large quan-tity of standing bino.

Lots in the same Townships, and contain a targe quan-tity of standing pine. The whole establishment is in complet, condition and active operation, and is executently situated for the man ufacture, sale and sity instead of timber. Tenders for the whole property, minuting, plant, all be received until the 20th August nett, addressed to the General Manager, Ontario Isank, Toronto, by whom furnished on application. No tender will be accepted unloss axtisfactory to the vendors.

IRWIN & BOYD Commission Lumber Dealers, FORWARDERS. Shipping General Agents PORT HOPE. LUMBERMEN will save money by going direct or sending to F. CH MITON, S3 King St. East, Toronto, for their Watches and Jowellery, or Silver-ware and Clocks, etc. If you can not come yourselves send your orders and I will guaranter-good satisfaction as by a per-sonal selection Goodisguaranteed exactly as represented or your money refunded. Watchand Jew-ellery repairing and manufactur-ing by competent workmen at Reasonable Prices. We make a speciality of HEAVY CASED WATCHES euitable for Lum-berner. a Prices cheerfully furnished n application. Remember the address, F.CRUMPTON 83 King St. East, 11 TORONTO.



Department of the Interior. OTTAWA, 25th May, 1881.

Department of the Interior, OTTAWA, 25th May, 185t. WillEREAS circumstances has rendered it expo-the Government respecting the administration of Do infinite lands, public notice is hereby given. The Regulations of the 14th October, 1470, were reachided by order of His Excellency the Government function lands, public notice is hereby given. The Regulations of the 14th October, 1470, were reachided by order of His Excellency the Government in Council, on the 20th day of May, metants, and the following Regulations for the disposal of agricultural lands substituted therefor: The even numbered sections within the Cana-cian Facific Italiway lieft that is to say, bling within 21 miles on each side of the lime of the said italway, excepting these which may be required for wood lot in connection with settlers on uratic lands within the function council, shall be held exchn slevely for homesteads and procentions. The odd numbered sections within the said bolt are Canadian Pacific Italway lead, and can only be acquired from the Company. S. The pre-emptions entered within the said helt of Samles on each side of the Canadian Pacific Italway, up to and including the 31st day of December next, shall be disposed on six her are of 22.00 peractor, four-tothes of the purchase money, with interest on the paid at the end of three years from the date of entry, no remainder to by paid in a equal mathaments at the rate above mentioned on such portions of the purc-chase money as may from time to the said heat rea-minally from and after the said date, with interest at the rate above mentioned on such portions of the purc-chase money as may from time to the said later, why, but shall be paid in one sum at the end of three years, or at such earlier period ns the calor of the property of the side of any branch line of the said later within 21 miles of any projected line of the said later within 21 miles of any projected line of the ball at the main later of ital ways, and of which he has given notice in the Official Oracie, as be within 21 miles of any projected line of railway recog-nized by the Minister of Risilways, and of which he has given notice in the Official Oracite, as being a project cd line of Risilway, shall be dealt with as to price and terms, as follows: - The pre-emptions shall be sold at the same price and on the same terms as fixed in the next preceding paragraph, and the odd numbered sec-tions shall be sold at \$2.50 per acre, payable in cash. 6. In all townships open for asle and withermost within Manitoba or the North-West Ferritories, out-side of the said Ganadian Pacific Railway Beit, the sec-numbered sections, on cerp in the cases provided for in clause two of these Regulations, shall be held exclusively for homestead and pro-em⁻⁺¹on, and the odd-numbered sections for sale as public lands. 7. The lands described as public lands, shall be field exclusively for homestead and pro-em⁻⁺¹on, and the odd-numbered sections of cash, excepting in special cases where the Minister of the Interfor, under the provisions of section 4 of the manendment to the Dominion Lands Act passed at the last session of Par-liament, may deem if expedient to withdraw certain farming lands from ordinary sale and settlement, and-put them up for asles at public suctions to the highest bidder, in which event such lands shall be put up at upset price of \$2 per acre. 8. Pre-emptions outside of the Canadian Pacific Rail-way Beit shall be sold at the uniform price of \$2 per acre, to be paid in one sum at the end of three years from the date of entry, or at such canadian Pacific Rail-way Beit shall be sold at the uniform price of \$2 per acre, to be paid in one sum at the end of three years from the date of entry, or at such canadian Pacific Rail-socian. 9. Exceptions shall be made to the provisions of

claimant may acquire a title to his homestoad quarter section. 9. Exceptions shall be made to the provisions of clause 7, in so far as relates to lands in the Province of Manitoba or the North-West Territories, lying to the north of the belt containing the Pacific Railway lands, wherein a person being an actual settler.on an odd-numbered section shall have the privilege of purchas-ing 'o the extent of 320 acres of such section, but no more, at the price of \$1.25 per acre, cash; but no Pactont shall be issued for such land until after three years of actual residence upon the same 10. The price and terms of payment of odd-number-ed sections and pre-emptions, above set forth, shall not supply to persons who have sottled in any one of the several belts described in the said Regulations of the several belts described in the said Regulations of the aright to purchase such odd numbernd sections or pro-tained entries for their lands, and who may establish a right to purchase such odd numbernd sections or pro-temptions, as the case may be, at the price and on the terms raspectively fixed for the same by the said Regulations. *Tir-ber for Settlers.*

Tiv-ber for Settlers.

11. The system of wood lots in prairie townships shall be continued—that is to say, homesteal settlers having no timber on their own lands, shall be permit-ted to purchaso wood lots in area not exceeding 20 acres each, at a uniform rate of \$5 per acre, to be paid in acres each, at a uniform rate of \$5 per acre, to be paid

acres sach, as a uniform rate of 35 per acre, to be paid in cash. 12. The provision in the next preceding paragraph phallappity also to settlers on prairie sections bought from the Canadian Pacific Italiway Company, in cases where the only wood lands available have been faid out on even-numbered sections, provided the Rallway Company agree to reciprocate where the only timber in the locality may be found on their lands. 13. With a view to encouraging settlement by cheap-ening the cost of huliding material, the Government reserves the right to grant licenses from time to time, under and in accordance with the previsions of the "Dominion Lands Act" to cut merchantable timber on any lands owned by it within surveyed townships : and settlement upon, or sale of any lands covered by such license, shall, for the time being, be subject to the operation of the same. Sales of lands to Individuals or Corporations for

Sales of lands to Individuals or Corporations for Colonization,

Colonization. 14. In any case where a company or individual applys for lands to colonize, and is willing to expendence of the good faith and ability of such company or individual at half price, or 31 per acre, in case the lands a pacific failway Belt, or of the Belt of such company or individual a half price, or 31 per acre, in case the lands a pacific failway Belt, or of such and to such and a ball price, or 31 per acre, in case the lands a pacific failway Belt, or of such and to such and the same may be sold to such company or individual at half price, or 31 per acre, in case the lands applied for the such and the same may be sold to such company or individual at half price, or 31 per acre, in case the lands applied for the same mumbered section is concerned—that is to say, the one half a concerned—that is to say, the one half of each even.

company or individual at the price of \$1.25 per acre to be yild in cash. The company or individual will further be protected up to the evtent of \$2.40, with six per cert. Interest thereon till yild, in the case of ad vances made to place families on homesticals, under the provisions of section 10 of the amendments to the Dominion Lands Acts hereinbefore mentioned.

as in every such transietion, it shall be absolutely conditional:

conditional: (a) That the company or individual ** 'scale may be, shall, in case of lamis outside of the said (Tanahan be, shall, in case of lamis outside of the said (Tanahan be, shall, an case of lamis outside of the said (Tanahan be, shall, an case of lamis outside of the said (Tanahan to the baliway ladit, within three years of the said of the agreement with the Government, place two settlers on each of the odd-numbered sections and also two on homest in the scheme of colonization (a) That should the land applied for he situated within the Company factor lambared sections en-or individual soid, within three versus of the date of the agreement with the Government, place two sections on the ball of non-ore numbered section partic sections and also one settler upon each of the two quarter sec-tions in making available for homesteads in such section. (c) That on the prometers failing within the period

section. (c) That on the promotors failing within the period fixed, to place the preaction in m + r of at there, the Governor in Council may cancel the sale and the priv-lege of colonization, and resume persection of the lands not settled, or charge the full price of S^2 by r nerve, or S^2 fo per nerve as the case may be; for ruch lands, as may to deemed expedient. (d) That it is to distinctly tradication that this policy shall not only apply to schemes for colonization of the public lands by Eurgranus from Groat Intern of the European Continent.

Pasturane Lands

16 The policy set forth as follows shall govern ap plications for lunds for grazing purposes, and previous to entertaining any application, the Minister of the Interior shall satisfy himself of the good faith and ability of the applicant to carry out the undertaking involved in such application.

Involved in such apparention, 17. From time to time, as may be deemed expedient, leases of such Townships, or portions of Townships, as may be available for graving purposes, shall be put up at auction at an upset price to be fixed by the Minister of the Interior and wild to the bighter bidder the promium for such leases to be paid in each at the time of the sale.

is, buch loaves shall be for a period of twenty one years, and in accordance otherwise with the provisions of section eight of the Amendment to the Dominion Lands Act passed at the last Sussion of Parliament, hereinbefore mentioned.

hereinbefore mentioned. 19. In all cases the area included in a lease shall be in proportion. o the quantity of the live stock kept thereon, at the rate of ten areas of land to one head of stock; and the failure in any case of the lesses to place the requisito stock upon the land within three years from the granting of the losse, or an subsequent-by maintaining the prover ratio of stock to the area of the feasehold, shall justify the Governor in Council in cancelling such losse, or in diffusing proportionately the area contained therein.

the area contained therein. 20. On placing the required proportion of stock within the limits of the leasehold, the lease shall have the privilege of purchasing, and receiving a patent for, a quantity of land covered by such lease, on which to construct the buildings necessary, in connection there-with, not to exceed five per cent of the area of the leasehold, which latter shall in no single case exceed 100,000 acres. 21. The rental for a leasehold shall in all cases be at the rate of \$10 per annum for each thousand acres in cluded therein, and the price of the land which may be purchased for the cattle station referred to in the next preceding paragraph, shall be \$1.25 per acre, payable for rate.

zub.

Payments for Lands.

1 aguients for Lands. 22. Payments for public lands and also for pre-emp tions made in cash, or in scrip, or in police or military bounty warrants, at the option of the purchaser. 23. The above provisions shall not apply to lands valuable for town plots, or to coal or other mineral lands, or to stone or marble quarries, or to lands hav-ing water power thereon; and further shall not, of course, affect Sections 11 and 29 in each Township, which are public school lands, or sections 3 and 20, which are fudson's Bay Company's lands.

J. S. DENNIS, Deputy Minister of the Interior.

LINDSAY RUBSELL, Surveyor-General. 3117



We have added to our plant all the latest improved network added to our plant all the latest improved inachinery for Electro and Stereoty ping, and the manu-facture of Printers Furnitaire, facilities for oxecuting work which no other establishment in the Dominion posteres, and not excelled by any on the continent. A large assortment of various outs constantly on hand.





Market Reports.

10

TORONTO.

From Our Own Correspondent,

TOKONTO, July 9, 1881.-There is not much that is now in lumber matters to record since my last letter, only that the domand for cars has become more vociferous, and much of the language hurled at the heads of N.R.R. officials will hardly bear repeating, and in the present instance there actually seems to be just cause for complaint, as the long interval that has elapsed since the change of gauge from Allandale to the Northern extremity of the line should have been ample time in which to have completed the change south of the former place, and the delay at this period of the season has, no doubt, seriously inconvenienced shippers, as most of the manufacturors are anxious to get their lumber to market, and a few weeks delay may mean an advance in freights to Oswego and Albany, and it is claimed by some persons that a considerable quantity of lumber might hav been brought over the Credit Valley line, and the owners of stocks thus delayed would sooner have paid something extra, in order to have go their stuff to market. It seems to me that the great mistake made by the company has been in delaying the work until the busy season se in. In the meantime, large quantities of lum ber has been accumulating at different points o the road, and next week we expect a rush of lumber down that will gladden the hearts of the lumberinen.

The strange anomaly in regard to the purchasing and selling price of shingles as mentioned in my last letter, still continues; some dealers here selling XXX 16-in, shingles as low as \$2.40 per M., which is fully as low as most of the manufacturers are willing to place them in this market for. One dealer to whom I pointed out the foolishness of such a proceeding, argued much in the same style as the old woman, who declared that she sold apples for less than cost, and in answer to the query as to how she managed to rinke a living under such circumstances, she declared it was owing to the large quantity she sold.

I would here intimate to any of your reader who may have cherry lumber for sale, that good prices may now be obtained in this market, especially if well manufactured. As high as \$30.00 per M. by the car load has been paid for good cherry lumber, but it is uscless for manufacturers to expect good prices for an inferior article. The great fault with many manufacturers is in leaving the heart in heavy plant and sources, so that before it gets to market it is so split up in consequence as to materially hinder its sale. A word to the wase will be _ilicient. Take a piece of 4x4 out of the heart of the log and throw it away, if you have no better use for it, and the enhanced price you will obtain for the hunder you market, will fully repay the trouble taken. The same 1 ... nark will apply to all hardwoods. There is znother class of wood that commands roady sale, namely, black birch, and it should be cut into 5::5, 6x6, 8x8 and 10x 10. A large quantity of this class of lumber is now used for newel posts, cherry having become SO SCRTOC.

Stock boards of good qual ty for dressing purposes will now sell readily both for local use and for shipment, but dry lumbor sufficiently good for dressing purposes is scarcely obtainable at any price, and the inevitable result will be that the retail business will gradually drift into the hands of men who are increased of sufficient capital to carry large stocks, so as to be able at all times to meet the constantly increasing demand for thoroughly dry lumber; that this will be the case becomes more apparent year after year, as mill men decline to hold their lumber any longer than is absolutely requisite to make it in a fit condition for shipment, so that it naturally follows out that the retailer will be bound to most the domand for dry stnff.

Another inovation to be noted this season is the large quantity of 1-in. fleering being used instead of 13-in, as formerly, so that these holding large stocks of 13-in. fleering plank, find it difficult to market any considerable quantity. This should be noted by manufacturers for their future guidance, and if instead of cutting so

much 11-in. flooring plank in the future, they would cut the same class of logs into 3-in. plank (especially 16-ft, longths) it will command ready sale and at more remunerative prices, if held until partially dry. Sawn lath in this market are tending downwards in price, and are easily obtained at the yards at \$1.40 to \$1.50 per M. There is quite a large trade being done in walnut in this market at the present time. The largest dealers in this class of wood here are Messrs. Oliver & Co., who have especial facili: ties for handling and storing large quantities of this class of lumbor, and the greatly increased value of this kind of wood would indicate that at no distant date other and less expensive woods will take its place. In a future letter I will endeavor to give you the quantity of wal nut sold in this market, and I venture to predict it will surprise many of your readers.

Prices at the yards rule as follows :---

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OTTAWA.

From Our Own Correspondent.

The lumber trade this season is very encouraging. Sales have been good so far at prices somewhat in advance of those of last year. The output of logs this spring, on the Upper Ottawa, reached nearly two million, while three times as much square timber was taken out as in the winter of 1879-80. It is estimated that the cut of lumber by the mills in this immediato section the current year will reach 300,000,000 feet. Not more than one-half of the secason's cut of lumber has been sold so far. The quotations at the present time are as follows :--

THE DRIVE.

The Upper Ottawa drive is coming down first-rate, although about two wocks later than last year. Navigation opened early but there was a lack of rain at the time that the snow in the woods melted away. Notwithstanding this, the quantity of logs stuck in the small streams is not great, there not being so many as was at one time expected.

FREIGHT BUSINESS.

Business in the freight line is rather dull this eason in cour parison to last. This is owing to the fact that there are more heats engaged in carrying lumber. Last year a good many barges were engaged in carrying ice to New York, owing to the ice "famine" that existed there, buildes which there has been quite an increase in the number of barges. The present rates are as follows. To Montreal, \$1.10 to \$1.25 per M. to Quebec and Burlington, \$2; to Whitehall, \$225; to Albany, \$3; and New-York, \$3.25 This is a decrease of fifty cents per thousand to Albany and Now York. The rates to Whitehall, Queboc and Burlington are the same as last season, with a slight decrease in rate to Montreal.

OTTAWA'S FLERT.

The total number of vessels registered at the post of Ottawa is 122-42 being steam vessels and 90 being barges. The tennage of the steamboats amounts to 4,308, and that of the barges to 9,366, making a total tennage for the port of 12,774. The number of men and boys employed in working the fleet is, in round figures, 650, and the expenses foot up to abont \$100,000 or more for the season. About one-half of the vessels using steam are steam barges, and capable of carrying good loads as well as towing. Nearly all of the barges are engaged in the transport of lumber, often bringing return cargoes of merchandise from Montreal. The principal owners of vessels are Mr. J. R. Booth, Perley & Pattee, D. Murphy & Co., McNaughton & Co., Capt. Blanchard, Capt. S. Mulligan, Ald. Harris, and the Augur Shipping Co.

BQUARE TIMBER.

The quantity of square timber taken out on the Ottawa this season is about treble that of last year, but as the water is now falling fast it may be late in the season before it shi gets through, and it is quito probable that some of it may have to be wintered over at points along the route, so a lumberman informs me. This season an innovation was made in the transport. of square timber, . . Findlay and Mr. Mackie both shipping large quantities by rail, through from the Matt va to Quebec, by the Canada Contral and Goudental Railways. It saves tione, and as the expense is very little greater it is altogether probable that the day is not far distant when the most of the fimher cut on the Upper Ottawa will be sent to Quebec by rail instead of by water.

EDGINGS.

Mr. E. B. Eddy employs 150 men at the Nopcar steam sawmill, which is located at the head of the Duchesno Rapids, on the Ontario side of the Ottawa. The mill is run night and day.

Conroy Bros. have put on a night gang at their mill, Duchesno Rapids, Quebec side, and are manufacturing a large quantity of lumber this season. The Occidental Railway Co. will run a branch of their lino into the mill promises to facilitate shipment. The branch will be three-quarters of a mile in length.

The new saw mill of Lachlin Bros., Arnprior, is being finished and is said to be one of the finest on the continent. The building is a splendid one, being solidly and nearly built, while the machinery put in is of the very best.

It is probable that all the mills at the Chaudiere will shortly be lighted by electricity. Capt. Young has followed in the wake of Mr. E. B. Eddy, adopting the electric light, and the other mill men feel inclined to follow suit. The lights at Mr. Young's mill are on the Maxam system, furnished by the Canadian Electric Light Co., of Montreal.

The splint factory at Horseshee Bay, twenty miles down the river from Ottawa, is running full blast. It is owned by the American firm of Swift, Courtney & Beecher, who have four large match factories in operation in the States, and is managed by Edward Prince. Nine barges of splints were shipped to the other side last season, and this year five barge loads have already been started, and Mr. Prince hopes to get seven or eight more barges away by the close of navigation.

Mr. Hehron Harris took out a large quantity of ties on the Gatineau the past season, and is now shipping them to Cape Vincent, having a contract with an american railway company.

LONDON, ONT.

From Our Own Correspondent.

JULY 11.-To begin this, my initial letter, with "nothing new," would not be likely to awaken any desire on the part of my readers to continue its perusal beyond the first few lines. To make manifest a letter of interest, it is as well to do it at the beginning, particularly if your correspondent is wishful to become popularly read by these most interested.

I must inform you then, at the outset, that in this market lumber of all grades is in very great demand, and a gradual advancing tendency is very apparent.

I am informed on very good authority that more lumber has come into this market for the present year than any year provious, and putting this fact, and the probability of higher figures, together, it would suggest something of what is now a days known as a "boom."

Several very large building contracts are now in process, and nearing completion.

future guidance, and if instead of cutting as 12,774. The number of men aud hoys employ- 1 The Roman Catholic Cathedral here, which spot and not easy to engage for future, as most

is to cost in the neighbourhood of \$00,000, is now some feet above ground lovel, and the masons are busy ten hours a day. The lumber contract for this building is possibly about \$10,000, and is in the hands of a well known firm of this city.

The contract for the Exhibition Grounds sup ply (for the Provincial Exhibition which is tole held here this year) is partly let, to the amount of about \$6,000, with more to follow, and is in the hands of a well known lumber increment here. A fine mansion is being built by Mr. Benj. Cronin. The contract for woodwork for which alone is \$12,000.

The cedar block pavement which has just been completed on Dundas street from Rider to Richmond, is a fine piece of work, and the contractors, Messra, Stevens, Turner and Bura, have shown a wonderful mark of advancement in their increased facilities. They have fut about fifty car loads of cedar posts from at over the country, principally, however, from places on the London, Huron & Bruce and Wellington, Grey and Bruce Railroads.

A very fine mansion is being built on Duffern Avenue for Mr. McDonough, the contract for which is about \$3,000 for woodwork.

The same complaint prevails here with regard to want of cars; an insufficient quantity for the demand is very apparent.

Shingles are very scarce, only two carloads have come into the city within the just four weeks, and one firm alone have told me they could have sold 30 carloads if they had had them.

Below I give you a list of London prices, which, however, must be understood as retail figures:--

		44	••	20 ft					5 50
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4	Common	stock .							1 00
	Common								
1	Cutting 1	in nlanl	c and h	oanls.				1	\$ 00
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NEW YORK.

The Rec Estate Record of July 9th says: All reports upon the wholesale market continue in the cheerful, hopeful strain so frequently recorded this season. Demand has shown so irrogularity, and from a few sources was a little disappointing, but the ovidences seem to show that the movements of buyers are checked by exceptional and temporary influences with every prospect of removal at an early date. On all leading descriptions values, too, are well maintained, and while it is not uncommon to fal some roduction in cost at this season of the year, sellers are confident that if any shrinkage at all becomes necessary it will be much smaller than usual. Yard assortments are light and dealers are ready to handle anything likely to improve their stocks. The first six months of the year show a good full export movement, and there is hopes of keeping up the same average to the first of January next.

The following is a comparative statement of exports of lumber from this port for the first size months of the years named:

1576. 1579. 1880), 1SI.
feet. feet. feet	
W. Indice 11,600,513 12,7:41,138 14,521,	200 35 25 12
8, America., 5,527,493 11,518,237 9,632	177 13,503,74
E. Indics, etc 3,245,252 3,415,768 4,008	1.5 3,214,366
Europe 5,799,053 6,202,724 6,746,	204 2120.22

Total......30,178,250 x3,524,507 34,035,509 41,977,52 The above table does not include the exports of hardwoods. The exports of the month of June will rank among the largest for any corresponding period and are one and one-half million feet less than for April last.

Spruce of attractive quality is searce on the

of the mills are under contract for the product of all the suitable logs they are in any way ikely to secure. Full rates are in consequence asked and the bids range well up, also, as buyers are in some cases quite anxious. On ordinary sizes the tone has been quite steady also. Some protty heavy arrivals were of late reported, but the bulk appears to have been ongaged. May be quoted at \$14.00@16.00 on randoms ; and \$16,00@18,00 for speciala.

White pine continues firm in price and has a good sale on all regular outlets. Large amounts have gone abroad this season, but dealers who make the foreign trade a specialty, seem confident that shippers may still be depended upon as good customers. Full home wants are assured and generally the market is in excellent shipe. We quote \$17.00@19.00 per M. for West India shipping boards ; \$24.50@26.00 for South American do.; \$16.00@16.50 for box board; \$17.00@17.50 for do. wide and sound

Yellow pino has a first-rate market still. and on all grades showing merit there is a firm tone at full prices. The local consumption is becoming larger, and, in some cases, has run ahead of deliveries, compelling contractors to seek supplies from yards while awaiting the arrival of detained cargoes. Quite a number of shipping orders are in hand, but negotiations on these prove a triffe rlow. We quoto random cargoes at about \$24.00@26.00 per M.; ordered cargoes, \$26.00@23.00 do.; green flooring boards, \$24.50 (29.50 do.; and dry do. do., \$27.00@29.00. Cargoes at the South, \$15.00@19.00 per M. for rough, and \$20.00@24.00 for dressed.

Hardwoods do not accumulate. Supplies come to hand to some extent, but quickly disappear, and buyers find it quite as difficult as ever to hunt up in attractive assortment. Prices asturally are quite firm all around. We quote at wholesale rates by carload about as follows: Walnut, \$77@85 per M.; ash, \$35@38 do.; oak, \$406.45 do.; maple, \$30@35 do.; chestnut, 1st and 2nd, \$30@35; do. do. culla, \$18@20 do.; cherry, \$50@55 do.; white wood, 1 and f inch, \$5627.50, and do. inch, \$33@35 do.; hickory, \$3@45 do., for Western, and \$65@75 for good searby stock.

Shinglos show no great variation. Demand isfair, the supply under very good centrol, and bollers generally quite firm in asking former rstes. Machine dressed cedar shingles quoted ufollows: For 30 inch, \$16@22.25 for A and \$2375@33.25 for No. 1; for 24 inch, \$6.50@16 far A and \$16.75@23 for No. 1 ; for 20-inch, \$5 (10.50 for A and \$11.25@11.75 for No. 1.

OSWECO, N.Y. From Our Own Correspondent.

UswEGO, N.Y., July 9, 1881.-There has been to jarticular change in this market since our hs, the receipts have been about as usual at this season of the year, always being somewhat effected by Dominion and Fourth of July holidys. The quantity received for shipment has not been as large as during the early part of Jme, more being held for distribution here. The yards are well stocked, though a good deal of it is of this year's cut, and must be held a while before it can be disposed of. No change is lake freights. There has been a docling in caal rates of ten cents. Current rates are: \$150 to Albany, and \$2.20 to Now York.

1990	
1851	
Quotations are as follows :	
tree uppers.	 00/745 00
At common and drossing	 : 006825 00 : 006825 00

Concion	- 14	00.0	16
Celle.			:2
X2 run lots	- 44	UIAR.	13
	-17	00(4)	23
Mincs, selected, 1, 11 inch	- 30	0044	57
A4 190, 1110, 1210,	16	00/21	n
Stried	90	00/44	2
Ships, 1 and 14 inch mill run	- 11	~	2
and a min of montainin tunies as as as as a	14	WHER.	18
culls	10	00(4)	13
inspected for claphoards	- 25	00683	15
his selected for claphoards		75.4	ò
XX. " "	ŏ	760	2
XXX, 13 inch, codar.			
2.2.4, 13 IIICH, COUM		000	
XX, " "		2544	
Lub	- 1	4012	Ĩ.
-	-	43	-

"WHERE HAVE YOU BEEN FOR A WEEK BACK" Ch-wirds a man of his neighbor; "I have not a weak lect," retorted he, "you misunderstand me," remark-wiss fried; " but if you ever get a weak back try havack likod Bittern." It cures all debility arising for disordered Nidneys, Liver of Blood, and is the bet puritying tonic in the world. All medicine deal "REPPly Sample Bottlee at 10 Conte; Regular Size \$1.

ALBANY.

This is "Fourth of July" week when the district expects a quiet market. It has not been disappointed, for no large buyers have shown themselves since our last report. The receipts of lumber are free, the week which endod with 30th June bringing forward the largest quantity of any week this season ; still we are much short of what we had received to date a year ago. Prices are without change and stoadily held.

Hardwoods are in steady demand and un changod in price. -

Coarse lumber comes forward slowly; the mills are not running to their capacity for want of a sufficient supply of water; the domand is good and prices steadily held.

The receipts of lumber by lake at Buffale for the week ending July 4th were 8,450,000 feet and by rail-cars. The receipts by lake at Oswego for the week were 4,537,000.

The receipts by canal at Albany from the opening of navigation to July 1st were : Boards and Shingles, M. Timber, Scantling, ft. cub. ft. Stares

16. 1831.... 100,874,000 1880.... 115,000,600 459,000 48 200 6,400 Freights from Oswego to Albany, \$1.60@1.65. From Ottawa to Albany, by boats, \$3.00@3.50 ₽ M. feet.—Argus,

Q1 00

River freights are :-

To Bridgeport	-	- Qel	37
To New Haven		601	37
To Providence, Fall River and Newport	2	00012	25
To l'awtucket	2	25612	50
To Norwalk.			
To Hartford		. 642	00
To Norwich		612	00
To Middletown		601	75
To New London		61	75
To Philadelphia		6(2	ÓŬ

Quotations at the yards are as follows :

Quotientita de cho yarda aro la fottora :
Pine, clear, 3 M
Pine, fourthe
Pine, selects
Pine, good box 14 00(#25 00
Pine, 10-in, plank, each
Pine, 10-in. boards, culis
Pine, 10-in. boards, 16 ft., V M 25 00@30 00
Pine, 12-in. boards, 16 ft 25 00((30 00 Pine, 12-in. hoards, 13 ft
Pine, 12-in. hoards, 13ft
Pine, 11 in. siding, select
Pine, 11-in. siding, common 15 00xr18 00
Pine, 1-in. siding, select
Pine, inch siding, common 15 00@18 00
Spruce, boards, cach
Sprace, plonk, 1]-In., each 00 19000 19
Spruce, plank, 2-in., each 00 28(a00 28
Spruce, wall strips, each 00 11000 12
Hemlock, boards, cach 00 13(400 00
Hemlock, joint, 4x6, each
Hemlock, joist, 21x4, each 00 13(:00 13
Hemlock, joist, 2]x4, each
Ash, good, ¥ X
Ash, second quality, 2 M 25 00(450 00
Cherry, good, 22 M 60 00(470 00
Cherry, common, ? M
Oak, good, & M 38 00«43 00
Oak, second quality, 2 M 20 00(#25 00
Basewood, 2 M
Hickory, 2 M
Maple, Canada, 37 M 26 00@30 00
Chestnut, 2 M
Shingles, shaved, pinc, 2 M 6 00(100 00
2nd quality
4 extra sauch pipe 4 90a04 25
" clear. "
the ander mired y 00,000 00
" cedar, XXX
" hemlock 2 25x 00 00
Lath, hemlock, 2 M 1 50(400 PO
Tath sprane II 175/400.00
Lath, pine, " 2 00e00 00

SAGINAW VALLEY.

The Lumberman's Gazette says: Another week of great activity in the lumber market has passed, in which a large quantity of stock has changed hands at good figures. Prices for choice lumber are very firm, sales having been made at \$8, \$16 and \$38, and \$8, \$16 and \$40, and in one instance a manufacturer named \$10, \$20 and

\$10, as his figures for an extra choice lot. Among other sales we note 1,300,000 feet strips at \$6,50, \$13 and \$30, 300,000 feet strips at \$6,50 5 00 5 00 2 00 7 00 1 60 5 00 3 00 and \$13, 200,000 feet strips at \$9, 100,000 feet common strips at \$6.50, \$13 and \$30, 1,500,000 at \$", \$14 and \$35, and 5,500,000 feet on market rates. There have been more lumber buyers in the market the past wock than usual, the reduction in the cost of transportation seeming to have a favorable effect on the market.

\$888888 \$ Shingles are in good request at \$1,90@2.10 for clear lritte and \$2.90@3.10 for XXX.

The total shipment of lumbor, lath and abingles from the river for the season to date, were as follows :

The aggregate of lumber shipped last year to accompaniments of combustion.

July 1, was 273,408,000 feet, and 1879, 195,714,-811 foot. The shipments are fifty millions short of what they were last year at this date. The shinglo shipments are about the same as last year, but only about one half what they were in 1879.

MINNEAPOLIS.

The Mississippi Valley Lumberman of the 8th inst., says: The condition of the lumber business is all that any one anticipated could be at the opening of the season. There has been a stoady advancement in values since the first day of January and the tendency is to still better figures. It is not an over estimate to say that emigration into the Missouri Valley and the country beyond (including Dakota) during the next two years will absorb five hundred million foot of lumber, which amount is to be added to that required in the west herefore, to say nothing of the emigration into the Mississippi Valley. The Lake Michigan region will necessarily have to furnish a portion of the amount required, because there is is not lumber enough cut on the waters of the Mississippi river to supply the country west of it. The advance in lumber during the past ten days at the several points along the river from St. Louis to Minucapolis has amounted to about one dollar per thousand on the leading qualities.

BOSTON.

There is still a very good distribution, although in some instances the intervention of a holiday has affected trade slightly, but the falling off is counter-balanced by the light receipts of the week. Prices remain very firm. Dimonsion stuff and long timber are very scarce, and in some cases are held rather above the general market, and from present indications will probably so continue. As a general rule the better kinds of lumber are stiff, and sales have been made at an advance over list prices. Ash is in pretty good supply and prices are not so firm, although dealers anticipate a speedy reaction as soon as this surplus stock is worked off. The following are car load quotations:

CANADA PINE.

 Sciects, Dressol,
 843 000750 00

 Shelving, Dressol, 1sts
 40 000742 00

 do
 do
 2nds

 Dressol Shippers.
 27 000759 00

 Dressol Shippers.
 13 000730 00

 Sheathing, 1st quality.
 42 000745 00

 "2nds"
 34 000735 00

TONAWANDA.

The Northwestern Lumberman, under date of July 5th, says: The market here has had a tendency to dullness the past week, owing to public excitement in regard to the President's assassination, public holiday, etc., all of which have somewhat broken in on the general activity and routine. Prices have suffered no change. Lake freights are quoted to-day at \$2.25 from Bay City, and dealers and shippers are confidently looking forward to that figure as the settled price for the season.

CARGO LOTS-MICHIGAN INSPECTION.

The Grease Tree

It is said that large forests of the grease tree of China are to be found there, and they form the source of a considerable local traffic. This tree not very long ago was imported into India, and it is said that the experiment of cultivating it there has proved quite successful. In the Punjaub and northwestern provinces generally it grows as rapidly and as vigorously as in the nativo soil, and there are already thousands of trees on the government plantations yielding tons of seeds, admirably adapted to a variety of commercial purposes. Dr. Jameson, a chemist in the Punjaub, has prepared a quantity of grease from this tree, and has forwarded on trial a portion of it to the Punjaub railway to have its qualities tested in a practical manner as lubricating matter for those parts of the machinery constantly exposed to friction. The grosso thus obtained forms an excellent tallow, burning with a closr, brilliant and, what is in finitely more to the purpose, a white light, and at the same time emitting not a trace of any unploasant odor or of the ordinary disagreeable



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Walkerville, Ont., June 1881.





LUMBERMAN.

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Messrs. JAMES ROBERTSON & CO., TORONTO.

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CLASS 3. MEDIUM-SQFT .- The same as to conserves and factors as "Class 2," but a so/ter, and therefor freer cutting whoel.

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