### Technical and Bibliographic Notes / Notes techniques et bibliographiques

copy may of th signi	Institute has atter available for film be bibliographical images in the reficantly change the ked below.	ing. Featu Ily unique, production	res of this which may	copy which valter any may			1	lui a é exemp bibliog reprod	té pos plaire ( graphi luite, ( a méth	sible de qui son que, qu ou qui	se pro t peut- ii peuve peuver	ocurer. L être uniq ent modi nt exiger	es déta jues du ifier und une mo	laire qu'il ills de cet point de e image odification indiqués	vue
	Coloured covers, Couverture de co						[			red pag de coul					
	Covers damaged/ Couverture endo						[		-	damage endomr					
	Covers restored a		•						-			or lamina ou pellicu			
	Cover title missir Le titre de couve	•	lne						_		-	tained or chetées o			
	Coloured maps/ Cartes géographic	ques en cou	ıleur				[	- 1	-	detache détaché					
	Coloured ink (i.e Encre de couleur			_			Showthrough/ Transparence								
	Coloured plates a Planches et/ou ill							) //		y of pri é inégal		es/ mpressio	on		
V	Bound with other material/ Relié avec d'autres documents					Continuous pagination/ Pagination continue									
V	Tight binding may cause shadows or distortion along interior margin/ La reliure servée peut causer de l'ombre ou de la						Includes index(es)/ Comprend un (des) index								
·	distorsion le long	de la marg	e intérieure	8		Title on header taken from: / Le titre de l'en-tête provient:									
Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/					Title page of issue/ Page de titre de la livraison										
	Il se peut que cer lors d'une restaur mais, lorsque cela	ation appar	raissent daı	ns le texte,					-	n of iss e dépar		livraisor	7		
pas été filmées.							Masthead/ Générique (périodiques) de la livraison								
1	Additional comm Commentaires su		res:												
	tem is filmed at th cument est filmé a				•	•									
10X		14X		18X			22X			7	26X		; <del> </del>	30×	
	12X		16X		20X				24X			283			32X



PUBLISHED SEMI-MONTHLY.

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

### VOL. 2.

### PETERBOROUGH, ONT., FEBRUARY 1, 1882.

NO. 3.

### BARKING UP THE WRONG TREE.

Although the revenue derived from woods and forests stands second in amount among ()ntario's receipts, it is really surprising to note the manner in which so important a subject is Legislature. For instance, in the speech de- to settlement under the Free Grant Act. livered from the throne the other day, on the opening of the present session of the Ontario Legislature, we are told that the recent sale of timber limits was effected "in the interest of settlement and rovenue," which means, we suppose, that now that the right to cut the timber on the lands in question has been sold to private individuals, the Untario Government proposes to minimize its value both to the purchaser and to the Province by throwing it open to indiscriminate settlement under the "Free Grant Act," and the only objection which the leader of the Opposition apparently has both to what has been done, and what is proposed to be done. is that the Legislature was not consulted as to the expediency of the sale before it took place.

Now, all this, to our mind, is very much like barking up the wrong tree. In the first place, all past experience proves that those lands which are chiefly valuable for their timber, as the prices realized for these limits amply prove them to be, are not the best for bong fide settlement, while their attempted settlement unavoidably causes the destruction of m, h valuable timber by fire, and thereby a loss of revenue directly and indirectly to the people, of infinitely more benefit than any settlers which will ever make a permanent home on these landsespecially at the present time, when the North-West offers so many inducements to the intendmg agriculturist.

We had hoped that in view of past experience, and in view of the necessity which exists for making the very most of our timber resources, present Ontario Government would have been prepared to try the experiment of setting apart the district covered by the recent sale for timber production only, and adopted special measures for protecting the timber grow ing thereon from destruction by fire. The importance of the revenue yet to be derived therefrom by the Province, and the importance of should forbid any carping over any reasonable expenditure for such a purpose, or any high-properties to be depreciated. Identification about the rights of the would-be-settler. If these annual fires continuous to settle whereseever he pleases. So far as settlement is concerned, the question simply is. Ontario. Will the Province, as a whole, derive most beacht from protecting the timber, or from the

which is likely to take place on such lands under existing circumstances, while we do not think it would be difficult to prove that the timber thus protected would add more to the population of the Province in the course of its manufacture than treated, when referred to, by both parties in the is likely to follow from opening the land itself

#### PROTECTION FROM FIRE.

The Ontario Legislature having now met, it should be its urgent duty to pass some mea whiereby the provisions of the Hon. T. B. Pardec's Fire Act could be practically enforced. As it is now, the Act is a dead letter. Its 14th clause provides that it shall be the special duty of every Crown Land Agent and Bushranger to enforce this Act, and to prosecute every person guilty of a breach of its provisions and requirements; but as they have no instructions or authority from their Department to that effect, they can do nothing, and as for lumbermen taking up and prosecuting parties guilty of breaches of the fire act, it is simply abourd, as they would do it at the risk of having more of their limits purposely burned another year in retaliation.

It would appear that the greatest ifires have occurred since the passing of the Act, and this may be due to the fact that no person is afraid of being prosecuted under its provisions.

Most people are under the impression that it is only the license holder who suffers from fires to the Province, and a loss of employment both set out in the limits. They forget that every timber forest destroyed by fire represents so much revenue lost to the Province, let alone the actual loss to the license holder, in his limit and extensive river improvements.

There is another greater loss to be considered. and that is the loss to the country of the money which would be paid out in manufacturing and bringing this timber to market had it remained green.

During the past summer fires overran large parts of the Parry Sound and Muskoka disricts, and the country lying between the Georgian Bay and the Ottawa River, and ac cording to an estimate made in the Globe, of Nov. 10th, destroyed \$10,000,000 worth of pine m Unterio. This does not nearly cover all the loss, as there were many fires of licensed lands, making the very most of the forests which we of which the public knew nothing, the holders are so fortunate as to inherit from the past, of the limits burned keeping the knowledge of it to themselves, not wishing the value of their

If those annual fires continue, they will in a few years make a large hole in the revenue of

There were three quarters of a million dollars settlers which will go on these lands? When timber 'erths, and the duty on the timber growever the lands are chiefly valuable for the tumber, ing on them will represent to Ontario, if not upon them, it cannot be questioned that the burnt, upwards of five millions of dollars, and

fires, and that the existing Fire Act be properly enforced.

As these berths are all likely to be apprated on within a few years, (buyers being anxious to get returns), and as they are now owned by so many different parties, the risk of fires is very much increased. Before the sale these berths were in their virgin state, and not much exposed to fires, being held by the Government, but as soon as operations commence on them they will stand a poor chance.

There should be a distinction made by the Crown Lands Department between pine lands and hardwood lands fit for settlement. It is well known that in the back districts of Ontario and the Ottawa Valley, the pine lands are generally not fit for cettlement, and that where settlement has been made on them the settlers instead of prospering, yearly [grew poorer and poorer, till in many places they were actually driven from their holdings by starvation, as witness the Opeongo Road, the Bonnechere and Mississippi counties, which are now nearly deserts, nothing but dry pines to be seen as far the eye can reach, while on the other hand those who settled on the hardwood lands have done well, and made themselves comfortable.

Now that the country is mostly all surveyed and the quality of the lands known to the Government, through its surveyors and bushrangers. it surely would be easy to make a distinction lumbering. A large portion of the Opeongo and Bonnechere country was not surveyed until not therefore the knowledge they now have about their unoccuried lands.

Province as its timber forests should be better flour is found to answer best. With this it guarded against loss than it now is.

good, practical bush and canoe men, and well bran, and husks of corn. Wood flour, and force the provisions of the Fire Asto if authority were given them to do so. If one fifth of the revenue, which would have been derived from would have occurred.

in bonus alone obtained from the last sale of their agents and foremen, were all held respon- paid for the tract was \$10,000. The ware will sible for the damage done by fire set out by appoint keepers, I unters will be watched, and, them or their men, and also the heads of survey- if possible, no peaching will be allowed, and ing or hunting and fishing parties, they would violators of the game law will be present to tumber is worth both directly and indirectly perhaps more. The parties who have paid such be more careful than they now are. It is not A section of aristocratic old England much more to the province than any settlement large sums for timber berths have a right to so hard to trace the makers of fires in the woods in the woods of northern New York. be more careful than they now are. It is not A section of aristocratic old England let ?

look to the Government for protection against as it to trace incendiaries in cities, as every practical bushmen knows that almost all fire in the woods can be traced to their starting points, and to the parties who set them out. - Com.

#### WOODEN BREAD.

It has lately been discovered that whiskey can be made from saw dust, and while we were yot calculating on the good times when one can set c'm up" without start or limit, and as to what is likely to be the increase in the snake product, if science keeps on in this fashion. along comes another scientist, and informs us that we may also have bread made from word. We clip the following from a recent edition of Good Health . - " It is well known to the botanist that many plants besides those commonly used for food, contain nutritive elements. Nearly all plants contain starch. The barks of several aspens and pine trees contain so much of this substance that it can be extracted from them as from potatoes by trituration with water. It exists also in the roots and other parts of perenn al plants to such an extent asto have been employed in the preparation of bread in families. In illustration of this we quote the following directions, given by Prof. Autenrieth, for preparing a palatable and nutritious bread from the beech and other woods & tute of turpentine. 'Everything soluble in water is first removed by frequent maceration and boiling; the wood is then to be reduced to a minute state of division, not merobetween lands for settlement and those for ly into fine fibres, but actual pawder; and after heing repeatedly subjected to heat in an oven, is ground in the usual manner of corn." after its settlement, and the Government had thus prepared, according to the author, acquires the smell and taste of corn flour. It is, how ever, never quite white. It agrees with corn It surely would not be too much to expect flour in not fermenting without the addition of that the source of such a large revenue to this leaven, and in this case some leaven of corn makes a perfectly uniform and spongy bread; If the present staff of woodrangers were in- and when it is thoroughly baked and has much ressed, and kept in the woods during the crust, it has a much better taste of bread than months of May, June, July and August, being , what in time of scarcity is prepared from the posted in the back country, they could provent heiled in water, forms a thick, touch jelly, which many bush fires being set out, and generally en-

### Adirondack Preserves.

Mr. Wm. Pickhardt, of New York, ha put the timber destroyed by fires last year alone, chased a tract of 6,000 acres of land, on Shown had been expended in watching the Crown, lake, called the Pharach property, which lies an domain, it would have paid the salary of a large; the castern portion of the Adirondack free in staff of men for several years, and it is more. This large area he proposes to preserve it in than probable that very little damage from fires, the profanation of plow or woodman's and, and devote it entirely to natural wildness, and to be If persons holding and working limits, and the home of untamed beast and bird. The trice

#### MoLAREN vs. CANADA CENTRAL R. R.

In the case of McLaren vs. The Canada Cen tral Railway, for damages for lumber burnt by sparas from a locomotive, after a long trial the jury returned a verdict for the Plaintiff, assessing the damages at \$100,000. Mr. Justice Osler then directed judgment for the plaintiff for \$100,000, but the entry was not to be made until the fifth day after the next Hilary sitting. The following were the questions submitted to he jury by the judge, and the answers made :-

- Q. How did the fire occur-from sparks or cinders cast out from the locomotive, or from some other cause?
- A. We think the fire occurred from sparks cast by the locomotive.
- Q. If you find that the fire was caused by fire cast out by the locomotive, did it come from the smoke-stack or the ash-pan?
  - A. From the smoke-stack.
- Q. If you find that it came from the smoke stack, was it from any imperfection in the construction of the stack, or from the way in which it was managed by those in charge of the train?
- A. Imperfection in the stack
- Q. If you find that it was from any imperfection in the construction, state what the imperfection was. Was there anything too large, or was the opened or unfastened bonnet improper, or was the cone too close to the netting?
- A. Cone too close to the netting.
- Q. Would there be more substantial danger of fire from a bonnet provided with a mesh of the size used by the defendants than from that used by the Northern Railway, which appears to be the smallest in use?
- A. Yes.
- Q. Were the defendants, in your opinion. guilty of negligence in using such a mesh?
- A. No.
- Q. Was the plaintiff guilty of contributory negligence in piling his lumber so near the track, or by allowing sawdust to remain on it, or by not having sufficient appliances to extinguish fire? If the plaintiff was guilty of negligence, could the defendants, by the use of ordimary care and diligence, have prevented the injury?
- A. Not as to piling the lumber, or as to the sawdust, but somewhat as to appliances. We think the defendants could have prevented the
- Q. What was the actual value of the lumber destroyed?
- A. \$100,000, including ties and rails.
- Q. Do you allow anything for interest?
- A. No.

Another question was then raised by Mr. McCarthy, and at the request of His Lordship the jury once more retired, this time to consider whether the bonnet-rim of the smoke stack fitted to the bed. They occupied fifteen or twenty minutes in discussing this question, and at a quarter to cloven o'clock returned for the third and last time to say that the bonnet-rim did not fit so completely as it should have done.

### FOREST CULTIVATION.

The necessity for forest culture is forcing itself on the attention of the people. Many of the leading journals have had articles on the aubiect. Over in the States the same anxiety on the subject provails, and a convention will be held in Cincinnati to carefully consider the matter. The general Government, the States scientific and agricultural societies, and other associations interested in saving the timber from wanton destruction, will send delegates to Cincinnati to discuss the whole subject of This is a subject that we in Canada should also be seriously considering, as it is one of great and vital importance. Our forests are now thinned out at a rapid rate, and in the most predigal way. Many thousand acres of woodland are annually burned over, mostly by accidental fires, but often intentionally, to make clearings. Railroad ties consume every year a vast amount of growing timber. enormous quarty, too, and some of it of the most valuable species, is needlessly used up for brewood. It all parts of the country the waste goes on. This waste must be stopped, or the world will witness a timber famine before the middle of the next century. It is true that many millions of trees are being planted on the Telegraph.

American prairies, but not nearly enough to replace the destructive consumption of timber which is now taking place. In this country the Government should take steps to preserve existing forests, and to plant trees wherever avail-The rural municipalities might be compellod by law to plant their roads with trees and thus three per cent of the whole land of the country could be made to bear timber. We re peat, -this subject must be carefully considered by the Government.—Bobcaygeon Independent.

#### LAKE OF THE WOODS TIABER DISTRICT

Until quite lately the vast timber resources of this portion of Canada were but little known. Parties passing through islands on the Lake of the Woods could form a very limited idea of pine actually within reach. The timber limits surveyed in 1873 for Fuller & Co. were, we may say, unexplored, and in fact the Government know very little about what they were leasing This limit included all the islands north of the steamboat channel (islands, the number of which is not even yet definitely known), besides the soveral limits on the mainland. Since the Keewatin Lumbering and Manufacturing Co. have been running their mills at Keewatin, these islands have been more carefully prospected and explored, and the result is the dis covery of a much larger district of timber than was thought to exist in the country. The limits belonging to Mr. W. J. Mscaulay, recently transferred to Dick & Banning, are scattered over a large tract of country, and embrace a very considerable area of land. One pinery especially is worthy of notice. On the Rainy River, near the Sault rapids, the timber is all white pine. and will compare favorably with the product of Lower Canada. Proceeding to Fort Francis, we find Sutherland & Bros.' saw mill. This firm has almost inexhaustible limits on Rainy Lake, the Manitou Ri.er, and elsewhere, and employ this winter a large force in the woods. The development made in this industry during the past summer lead us to believe that no inconsiderable portion of our future wealth will be derived from the pine districts of the Lake of the Woods and Rainy River.-Rat Portage Prooreas.

### THE AUSTRALIAN TRADE.

Messrs. Geminell, Tuckett & Co.'s timber report, dated Melbourne, Nov. 22nd, states there has been a brisk demand for all kinds of timber for building purposes, and prices realized for some lines show an advance on late rates.

American lumber continues in short supply, and prices are firm at present rates. Sales ex Oneida and Claud Hamilton-Michigan clear, 2 and 3 in., brought £18; 4 and 5 in., £18 10s.; w. p. shelving, 12 in. and wider, £14 2s. 6d. to £14 5s.; w. p. t. and g. ceiling, £10 17s. 6d. to £10 12s. 6d. per M. super.

Messrs, C. S. Ross report that during the past month there has been an active demand for building materials, and prices have slightly advanced. Sales by auction have been well attended, and the bidding has been more spirited than usual for nearly all descriptions of timber. There is evidence of a substantial character that the present activity in the building trade will continue as the exports from the colony this season of wool will be far heavier than usual. The arrivals for the month have been the Ethioman, Northern Monarch, Cambrian Prince, Loch Sloy, Hoghton Tower, Chrysomene, Ganges, and Antiope, from Great British, with flooring, red deals, &c.; Cheriot, Konoowarra, and Borrabool, from Sydney, with cedar; Nomesu, from Sydney, with redwood and white pine; Amoor from Drammen, and Maury, from Fredrikstadt, with flooring and deals: Drumlanrig, from Gefle, with rod deals; Floctiong, from Burrard Inlet, with Oregon laths and pickets; Grace Decring, from Boston, with spruce deals, clear pine, shelving and laths.

PRESUDICE KILLS.—"Eleven years our daughter suffered on a bed of misery under the care of several of the best (and some of the worst) physicians, who gave her disease various names but no relief, and now she is restored to us in good health by as simple a remedy as Hop Bitters, that we had poohed at for two years, before using it. We earnestly hope and pray that no one else will let their sick suffer as we did on account of prejudice against so good a did, on account of prejudice against so good medicino as Hop Bitters,"—The Patients.

### MICHIGAN TIMBER SUPPLY.

A Brighton, Mich., despatch says some interesting figures relating to the timber interests of Michigan are furnished by the Forestry Bulletin just issued from the National Census office at Washington. The timber supply of this State, that is the estimated amount of merchantable timber standing on May 31, 1881, was as follows :- Lower Peninsula-Of white pine the basins of streams flowing into the Saginaw Bay have 7,000,000,000 feet, board measure; the basins of streams flowing into Lake Huron have 8,000,000,000 feet; the basins of streams flowing into Lake Michigan have 14,000,000,000, making a total of 29,000,000,000 feet. The pine on the Lower Peninsula is distributed over about 6,-500,000 acres. Of hardwood there is an estymated amount of 575,500,000 cords distributed over some 20,000,000 acres. Of this about 20 per cent. is suitable for lumber and cooperage stock. Some 7,000,000,000 feet of hemlock lumber and 7,000,000 cords of bark still remain together with about 5,000,000 cords of white and yellow cedar. Upper Peninsula—Of white pine, Marquette and Menominee counties have some 1,600,000,000 feet ; Ontonagon, Houghton, Keweenaw and Bargo counties have about 2,400, 000,000; Schoolcraft, Chippowa, Mackinaw sud Delta counties have 2,000,000,000 feet, making a total of 6,060,000,000 feet. Of hardwood there is an estimated amount of 124,500,000 cords distributed over 10,000,000 acres; also about 62,500,000 cords of tamarac and white and yellow cedar.

#### After Pine, Paper.

In a paper on the white pine of Michighan, Mr. W. H. Ballou shows that the quantity of pine in that state has decreased from 135,000 .-000,000 feet on 20,000,000 acres of land to 35,-000,000,000 feet on 10,571,000 acres. Some 5,000,000,000 feet are now annually taken away, so that in seven years the supply will be exhausted. It almost seems a despairing task to hope ever to raise forests for another such enormous production, and science will have to devise other materials as a substitute for wood. Lumber is already made in boards an inch thick from wheat straw, and can be colored so as to resemble any real lumber. The inventor manufactures two thousand square feet of a more durable and cheaper material than lumber from For elm and sah the demand has been limited, a ton of straw .- Popular Science Monthly.

### Albany, N.Y., Stocks.

The following comparative statement of lumber on hand at Albany, N. Y., on the 1st of January in each year for the past ten years, is taken from a statement just issued by Sumner & Hasey, lumber dealers, at that city :-

	Pine.	Hardwood.	Hemlock.
1873		4,972,000	
1874	90,996,000	5,594,000	16,992,000
1875	67,701,000	5,355,000	16,875,000
1876	67,800,000	6,652,000	8,338,000
1877	75,589,000	5,495,000	12,321,000
1878	69,547,000	8,645,009	22,432,000
1879	68,766,000	2,231,000	30,614,000
1880	76,463,000	2,097,000	5,415,000
1881	114,977,000	2,659,000	2,317,000
1582	101,587,000	3,265,000	6,258,000

### LIVERPOOL.

The Timber 2'rades Journal, of Jan 7th, says: The business of the past week has naturally been upon a very limited scale, and the usual course of trade has yet hardly had time to settle down into its normal condition; this position is, however, a question of only a few days, and everyons appears to look forward to a resumption of business as good, at not considerably better, than has been the case during the pastthree or four months.

The circulars issued from nearly every branch of business show that the trade of the country has been fair, and positively good during the latter portion of the year, and in all possibility the timber trade, always the slowest to feel the nfluence of the ups and downs of trade, will enter the year with good prospects of obtaining. higher prices than have recently been obtained, although these are higher than we have been accustomed to.

The imports continue moderate here, and as the import season for North American and Baltic goods is now practically closed, shippers are not willing to part with their goods excepting at a price which will see them recouped for their outlay, and therefore several auction sales are announced to take place during the next ten days, which will include most of the goods now on the way from New Brunswick and other deal ports.

Mesers. Farnworth & Jardine state that the arrivals from British North America during the past month (December) have been 17 vessels, against 17 vessels in the corresponding month last year, and the business of the month has been of a satisfactory character, prices having advanced, especially in Canadian woods. The imports for the season is now about closed, and stocks are generally very light. Canadian Woods-Of square yellow pine the stock is very small, and the late sales show a considerable advance in prices; for waney board also there has been a fair demand, and prices are improving. For red pine there has been more enquiry and the stock now is light. Of oak the consumption has been large, and prices are firmer; there is an increasing demand for planks cut to waggon sizes, the prices of these being so much lower than oak in the log, but they can no longer be had at the extremely low prices lately ruling. but prices are fairly maintained. Pine deals-There has been a good demand, and the late sales have been at improving prices, but they are still diproportionately low as compared with pine timber. Staves-Pipe fully maintain their value; but puncheon are rether easier. New Brunswick and Nova Scotia Pine and Spruce Deals-There has been a moderate import and a good consumption, and the stock is only about half as much as it was at the end of last year. The late sales of spruce deals show a slight advance in prices, and now that the season's import is practically over we may soon expect to see a further improvement in value. For pine deals there has not been much enquiry, but stock are now getting very low and the next sales will probably be at higher prices.

SUBSCRIBE for the CANADA LUMBERMAN.

#### LIVERPOOL STOCKS.

We take from the Timber Trades Journal the following Comparative Table showing Stock of Timber and Deals in Liverpool on Lec. 31st, 1880 and 1881, and also the Consumption for the month of December, 1880 and 1881 :-

•	Stock Dec 2	Stock Dec. St.	Consumption it. for the month of	Consumption
•	1801.	1880.	Dec. 1881.	Dec. 1880.
Quebec Square Pint	349,000 ft		190,000 ft.	223,000 ft.
St John Pine	32,000 "	21,000 "	12,000 "	2,000 **
Other Ports Pine		43,000 "	8,000 "	8,000 "
Pitch Pine, hewn			120,000 "	141,000 **
" RAWD	412,000 **		72,000 "	43,000 **
" planks	59,000 ''		27,000 "	8,000 "
Red Pine	26,000 "		19,000 "	14,000 **
Dantzig, &c., Fir	50,000 ''	219,000 "	6,000 **	32,000 "
Sweden and Norway Pir	16,000 "	4,000 "	3,000 **	_
Oak, Canadi u			119,900 "	78,000 "
" Planks	92,000 **	1 -	57,000 **	-
" Baltic	64,000 **	37,000 "	4,000 **	3,000 "
Elm	50,000 "	1 43,000 "	12,000 "	34,000 "
Ash	18,000 **	13,000 "	1,000 "	l 7.000 ··
Birch	127,000 "	275,000 "	27,000 "	62,000 **
Greenheart	30,000 "	38,000 "	1 -	25,000 **
East India Teak	14,000 "	77,000 "	σ,000 ''	22,000 "
Quebec Pine Deals	7 000 -1	, .	. 1	
N B &N S Sprace Deals	15,935 "	30,641 "	) l	
" Pino	718 "	1.856 "	3 0,379 "	7,730 **
Baltic Deals		6,943 "	473 "	615 "
de linarde	198 "	790 "	48 "	87 "
" Flooring Boards		2,830 "	489 11	482 "

Supplies always

### F.E.DIXON & (

### BELTING



First Prize, Provincial Ext billion ...... Ottawa, 1875
First Prize, Provincial Exhibition ...... Humilton, 1876 .....London, 1877 First Prize, Provincial Exhibition International Medal, Centennial Ex.....Philadelphia, 1876



None genuine juniess with a STAR on the head of rivets. Send for Price Lists and Discounts

### 81 Colborne Street, Toronto

JAMES EDDY, of Flint, Mich., has established a whool-barrow 'actory, which promises to consume 500,000 feet of hardwood a year.

By next summer square timber can be shipped from the forks of the Clyde River to Kingston by rail. A track, six and a half miles long, will be built.

J. T. ALLEN, a dealer in Boston, recently had one of the finest ash burls ever seen in that market. It cut over 7,000 feet of veneers, the largest sheets being five feet long by two and a half foet wide.

W. L. CRIMMELL scaled one of the largest pine trees ever cut in Saginaw county, recently, in his camp on Klacking creek. The tree cut 16 feet logs. The butt log measured 800 feet, top or smallest log 600 feet, making a total of 8,000 feet of lumber in the tree.

THE Scattle, W. T., Chronicle is stirring up San Francisco capitalists with a view to the erection of a wood pulp factory on Puget Sound. Cottonwood is being shipped from Skagit to San Francisco for the purpose of testing it for

THAT plebeian of the forests-hemlock-is gradually coming to the front for recognition. In New Brunswick luumbermen are becoming fully awake to its value. An operator at St. Stephens recently stated that last season he received \$5 for stumpage on 2,000,000 feet, board measure, of hemlock logs.

THOMAS C. WATSON'S circular, just issued from Pensacola, Floride says there is a pressing demand for vessels are hewn timber, sawn timber and deals or board cargoes, to ports in the United Kingdom, continent between Bordeaux and Hamburg, and Mediterranean, and full and safisfactory rates can be obtained for almost any size of vessel.



(HYDRATED OIL)
An artificially digested Cod Liver Oil.

For Consumption Winter Cough, Affections of the Chest and all Wasting Di-Prescribed by the

leading physiciansof England, the United States and the Do-minion of Canada.

A WONDERFUL FACT.

PREPARTORY
THE HYDRULINE DEFFICELY with water perfectly with water perfectly with water perfectly with water perfectly with water showing a complete artical digestion of the oil, and just as the Hydralizing may be an enters immediately into the system to noursh and build tup. The efficacy of Hydrollxing is nor confined to access of Consumption, as from its valuable tonic effect on the nervous system in addition to its special stimulating action on the organs concerned in the production of Fat in the body, it causes marked increases negligible persons of materially thin habit, who do not present any-evidence of disease. Unlike ordinary preparations of Cod Liver Oil, it produces no unpleasant cructation or sense of nausea, and should be taken in such very much smaller dozz, according to the directions, as will onsure its complete assimulation; this, at the same time, renders its use (conomical in the higher digree.

For sale by all Druggists,

For sale by all Druggists,

It is the purpose of the Sturgeon Bay Lumbe Company to purchase another tug during the winter, if a suitable one can be obtained. In case a large one is bought, it will be employed in towing lumber scows to Chicago, and the Lawrence will be kept for local work. Otherwise the Laurence will run to Chicago, and a smaller tug will do her business at this port. The company is looking around Detroit for a new tug, but has not yet found just what it wants.

TEABERRY whitens the teeth like chastened pearls. A five cent sample settles it.

The classic moralist bids "Festing Leate," but

when you want a good pen you cannot get one of Esterbrook's too quickly. The stationers have then. Wholesale by Toronto stationers.

STATISTICS OF LUNATIC ASSLUMS show that

STATISTICS OF LUNATIO ASYLUMS show that nine-tenths of their patients are brought to their condition by abuses of the generative organs. A great Brain and Nerve food, known as Mack's Magnetic Medicine, is sold by our druggists, and comes highly recommended as an unfailing cure in all these diseases. See the advertisement in another solumn. vertisement in another column.



### CANADIAN PACIFIC RAILWAY.

Bridge over Fraser River, B. Columbia

Tenders addressed to the undersigned will be received on or before the 10th day of FEBRUARY, 1832, for furnishing and erecting a Bridge of Steel or Iron over the Frazer River on Contract 61, C. P. R. Specifications and particulars together with plan of alte may be soon at the office of the Chief Englacer, at Ottaws, on or after the 10th of January, instant.

Contractors are requested to bear in mind that tenders will not be considered unless made strictly in acordance with the printed forms. An accepted bank choque for the sum of \$500.00 must accompany the tender, which sun shall be forfeited if the party tendering declines to enter into contract for the work, at the rates and on the terms stated in the offer submitted. mitted.
The cheque thus sent in will be returned to the re-

The chequethus sent in will be returned to the respective parties whose tenders are not accepted.

For the due fulfilment of the contract, satisfactory security will be required by the deposit of money to the amount of five per cent. on the bulk sum of the contract, of which the sum sent in with the tender will be considered a part.

This department does not, however, bind itself to accept the lowest or any tender.

By order,

(Signed.) F. BRAUN,

Socretary.

Department of Railways and Canals, } Ottawa, January 5, 1882.

HOP Bitters.

If you are young and discretion or dissiparted or single, old or poor health or languish need, rely on HOP Thousands Thousands Thousands Thousands To main from some factor of Kidney disease that might also been provented to the factor of the facto been provented timely use o HopBitters sako Hop Bitters. Have you dye D. I. C. HOP Sold by drug-gists. Soud for Circular. **NEVER** HOT BUTTERS

## MONTREAL SAW WORKS

MONTREAL Manifacturers of CIRCULAR, GANG,

MADRIA BRILLERY WEB NO.

M. V St. Paul Street.

All correspondence address to Chas. M. WHITLAW, Sec.

### WILLIAM CAMPBELL

(Late CAMPBELL & FOWLER.)

### Edge Tools, Axles, Springs,

&C., OF EVERY DESCRIPTION.

ST. JOHN, N.B. Robertson Place, Smythe Street

ONTARIO BLECTROTYPE AND STEREOTYPE FOUNDRY.



Having added the Latest Machinery to my Foundry, and secured the services of a MOST EFFICENT STAFF OF AMERICAN SKILLED WORKMEN, I am prepared to execute all orders with Promptness. Satisfaction guaranteed.

The Work Produced at my Foundry is acknowledged to be equal to any in the United States, and Superior to any in Canada.

AFOrders from the Country Promptly attended to.
AFPlease address all Orders to

SMITH, 26 & 28 Colborne Street, Toronto.

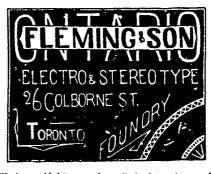
### J. G. EDWARDS

HARDWARE MERCHANT.

LINDSAY.

BELTING, FILES, BABBIT METAL, CHAINS, ROPE, and

LUMBERING SUPPLIES.



We have added to our plant all the latest improved machinery for Electro and Stereotyping, and the name facture of Printers Furniture, facilities for executing work which no other establishment in the Dominion possesses, and not excalled by any on the continent. A large assortment of various cute containty on hand.

FLEMING & SON,

119

20 Colberne St., Toronto.

Emory's Bar to Port Moody.

### CANADIAN PACIFIC RAILWAY.

NOTICE TO CONTRACTORS.

Tender for Work in British Columbia.

SEALED TENDERS will be received by the under signed up to NOON on WEDNESDAY, the lat day of FEBRUARY next, in a lump sum, for the construction of that portion of the road between Port Moody and the West-end of Contract 60, near Lunory's Bar, a distance of about 85 miles.

Specifications, conditions of contract and forms of tender may be obtained on application at the Canadian Pacific Railway Office, in New Westminister, and at the Chief Engineer's Office at Ottawa, after 1st January noxt, at which time plans and profiles will be open for inspection at the latter office.

This timely notice is given with a view to giving Contractors an opportunity of visiting and examining the grounds during the fin season and before the winter sets in.

Mr. Marcus Smith, who is in charge at the office at New Westminister, is instructed to give Contractors all the information in his power.

#### OUR QUEBEC LETTER

From Our Own Correspondent.

DULLNESS OF THE TRADE - MOVEMENTS OF PROM NEST LUMBERMEN-THE SUPERVISORSHIP OF CULTRIS-MINING NEWS.

Quence, Jan. 11th.-The extreme inactivity which provails in the lumber business renders it a difficult matter at this season to compile a very readable or interesting letter on subjectentirely connected with the trade. In face of the very useful and interesting annual statement prepared by Messrs, J. Bell Forsyth & Co., of this city, concerning the season's business in lumber at this port, and the stocks wintering hore, which statement has been analyzed in the columns of the Canada Lamburan, it would be decidedly presumptues to attempt anything further in this direction.

Quotations it is at present impossible to give. since no transactions have occurred for some Wooks back.

Mr. R. R. Dobell, of this city, left town a couple of days ago for Penascola, and will be abent about three weeks.

The firm of Hamilton Bros. & Co., doing business here and at Hawkesbury, Ont., has been dissolved by mutual consent, and the business is now being carried on under the old name and style by the Hon. John Hamilton, of Hawkesbury.

Mr. J. B. Charleson, of this city, has purchase ed all the standing spruce and pine on Brooks & Tool's lands, at Windsor Mills, in this Province. This, with other lots bought on the same river. makes his purchase of standing spruce and pine foot up to 27,000,000 feet. Both of these lands are quito close to Mr. Charleson s Mills, and in Proximity also to a station of the Grand Trunk

The Arthabaska Timber Co.'s property, consisting of extensive steam and water mills at Arthabaska, with limits, and hitherto the proporty of the Russel Hotel Co., of this city, has been sold to American operators. The price has not transpired.

The vessels engaged in the lumber trade of Quebec this fall have been, as a rule, singularly unfortunate. Bosides those already reported lest, the following over due vessels, of which small hopes are now entertained, are published in the newspapers of this date :-

Bark Pearl of India, Captain Kelly, from Quebec, Sept. 21, from Geenock, 1,256 tons register, loaded by Messre. II. R. Dobell & Co.

Bark Thomas Lee, Captain Wilson, from Quobec, Oct. 21, for Whitehaven, 390 tons register, loaded by Messrs. R. R. Dobell & Co.

Bark Caprea, Capt. Whittake, from Ouebec Oct. 24, for Nowcastle, 735 tons register, loaded by Mesars. R. R. Dobell & Co.

Bark Ella, Capt. Sjostrom, from Quebec, Oct. 27, for Dublin, 641 tons register, loaded by Mesers. R. R. Dobell & Co.

Bark Eastern Empire, Capt. Love, from Que bec, Oct. 28, for Greenock, 1,751 tons register. loaded by Messrs. R. R. Dobell & Co.

Bark Matador, Capt. Ewart, from Quelec Nov. 1, from Limerick, 420 tons register, loaded by Mesers, Wilson & Co.

Bark Roomar, Capt. Morris, from Quebec Nov. 8, for Plymouth, 1,187 tons register, loaded by Messrs, J. Sharples, Sons & Co.

The appointment of a Supervisor of Cullers for Quebec has not yet been made. There are those who anticipate still that the appointment will be a political one, as it is known that party hacks, possessed of not the slightest business knowledge, are actively canvassing for the posi tion. The trade, generally speaking, h wever have reason to hope that the Government will pay some attention to their oft repeated re presentations and to the law which requires the appointment of a duly licensed cull t

Mineral matters have looked up somewhat of late. New French capital is expected to pour into the Province next year, to be utilized in developing our mines, and in fact a Mr. Fortin. of this city, has recently received from a French company the sum of \$100,000 for a one half interest in a gold mine owned by him in Beauce. It is the intention of a number of speculation, who hold upwards of 100,000 acres of mining lands in the Eastern Townships, to open an office for the exhibition of specimens and sale of lands, in this city.

#### A UTILITARIAN PROTEST.

Some opposition is being expressed concerning the proposed reservation of a tract of land in Tulare county, California, as a national park. A bill is now pending in congress with this end This reservation will be for the ir view. especial purpose of saving the giant trees that grow on the tract from being destroyed. The opponents of the reservation scheme allege that and there are only two trees of notable size in that locality-the General Grant and Hugh Miller. These stand in a large body of timber, and are seven or eight miles apart. The opera ters who want to cut this timber, talk as fol-

" Very few stop to consider that by reserving this large tract considerable money is kept out of circulation. It contains upwards of 15,000 acres of land, with porhaps 300,000,000 feet of timber, of which probably 50,000,000 feet are Sequeia. It is hard to tell where one kind of tree leaves off and the other begins, The tract lies on the south side of King's River, and has so far been untouched, because it was impossible to haul out or get at in any ordinary way. It will require some \$200,000 to utilize the tract, so that cutting and marketing would be of benefit to some persons, of course. capitalists had just made arrangements to utilize this tract, and were prepared to spend the above amount of money. The land, as it stands, is represented to be utterly worthless for any small operation, and can never be touched unless done cheaply on a large scale. Of course, as soon as the bill was introduced, the capitalists stopped work. The damage around Lake Tahoe has been exaggerated. Some of the logs have been cut off, but a very large proportion was still left around the shores. One acre out of every 5,000 has been cut off the sheres of the lake, and no more. It would be more sensible to create a reservation around that lake than in Tulare county."

There are two sides to this question. If the general government has a right to the land, and can legally reserve the Tulare tract for the purpose of preserving the great trees, no private incrests have much to offer against it. If the district is well timbered, so much the better; there will be one forest on the continent that will be saved to future generations, in all its primeval grandour and beauty, untouched by the destroying lumberman. If forest preservation, by government interference, is to make headway at all, it might as well begin in Tularo county, California, as anywhere else.-North western Lumberman.

### THAT MERCER TIMBER MUDDLE.

we have republished criticisms on Mr. Wm. Mercer's account of the Spanish River country, we think it only fair to give the other side of the story, from the Lumberman's Ga zelle :-

By courtesy to Wm. Mercer, we publish the following communication, addressed to this paper. Still we are at a loss to understand by what manner of reasoning he is brought to the conclusion that we have used his name in any sense which savors of an untruthful connection, afid Mr. Mercer fails to explain the method by which he reached such a conclusion. We dis tinctly set forth in our former article that we had very serious doubts that Mr. Morcer had ever made the statements attributed to him by the Chicago papers. Further than this, Mr. Mercer fully corroborates nearly every statement in our former article, not only as regards hunself, but also sustains the views expressed

by no means a truthful' connection, I may say that the Press and a Chicago paper seem to have it all their own way, and contain statements that are quite new to me and in fact were nover heard of before by me. But not having had an opportunity to see or hear what has been said in the matter, I will state the facts and you can judge how far they agree with the statements made.

When leaving Bay City for Canada on the expedition named, the caution was given to say nothing about the object of the journey. This is the usual custom in all such cases, but they only extend to the time in which the would be purchaser liss the refusal of the land, and are never meant to extend over a whole province, nor to a period of a man's natural life. If I had imagined that the gentleman had the least idea of purchasing the whole of Canada lying between the Georgian Bay and the North Pole, I might have been more cautious, but I considered that after the land was bought it was of little consequence making a secret of it, if indeed any secret were necessary at any time, the land having been advertised for sale in the Canadian paper for several years back, and had been inspected by several Michigan lumber firms before we ever saw it. On my arrival in Bay City I found telegrams awaiting me that I had to leave for Chicago immediately; and being in Chicago noxt day, and while waiting for a train. I called at a friend's office, and the subject of the Canada Pacific came up, in which the Chicago people are interested as a diverting line for "northwest" freight. came in and was introduced, but I did not catch the name the turning out, however, to be a reporter of one of the Chicago dailies). made the remark in the course of conversation that the Canada Pacific never could compete with our lines of railroads on this side of the lakes, simply because the road ran through several hundred miles of country that had no local traffic or freight to support it, and consequently had to charge all expenses to "through freight" from the great "northwest," while ours had every few miles along the lakes immense quantities of freight to carry that would share the general expense and make these reads able to compete successfully with any road that can be built. Whether I am right or wrong in this has nothing to do with the question. question was asked if there was nothing to carry in that section through which the C. P. R. runs I said I had just come from the country north of the Georgian Bay, and with the exception of a tract of pine on Sable river, and as the Indians reported, also on the Spanish river some distance up, I saw nothing for a railroad to carry, and as these rivers were good streams to drive, I thought all the timber would come out That was the substance of the that way whole conversation, which I claim was utterly private and not meant for publication in any vay, and could not be distorted into an absurd claim of discovering a country that has been settled by whites over 100 years ago; and the Hudson Bay Company have a station near the mouth of the Spanish river that may have been there longer than that for all I know. Now if you read the article in question, you will find that the industrious scribe of the Chicago paper does not state that I made these enermous figures about the pine. That is all his own work from whole cloth, and must have been done on the principle of the natural philosopher, on being given the tooth of a mastoden, will construct the whole animal for you, even to giving you the length of its tail and the kinks

hand it back to blin again, unsoiled, as I have nover used it.

As for Mr. Little, of Montreal, I have known im for 30 years, and during that time he has written poetry and lumber statistics in large quantities. And if his knowledge of Canada is equal to that of Michigan, as shown by his published statements regarding the supply of Michigan pine playing out every four or live years. I don't think he is in a position to conradict any figures made by anyone.

This is a long article, Mr. Editor, but as you have printed longer once in regard to me, I think I am entitled to the insertion of this,

WILLIAM MERCER, Jersoyville, Ill., Dec. 31et, 1881.

QUEEN VS MCFARLANE & MCFARLANE.

OTTAWA, Jan. 14.-The Supreme Court met at 11 a.m. In the Case of the Merchants' Bank of Canada, appellants, and The Queen, respondent, Mr. Bethune, Q.C., was heard in reply on behalf of the appellants. Judgment was roservod.

The case of The Queen (defendant), appellant, and Joan McFarlane and Duncan McFarlane (suppliants), respondents, was then proceeded with. Mr. Lash, Q.C., appeared for appellant, and Mr. Bethune, Q.C., and Mr. McIntyre for respondents. The suppliants' petition of right claims payment of certain sustained by them, arising from the breaking of a boom at the mouth of the Madawaska River, owned by the Dominion Government as a public work, and constructed for the purpose of facilitating the transmission of saw logs down the Ottawa River. The suppliants were carrying on lumber operations on the Madawaska River, and cortain timber and logs owned by them passed into the Government boom at the mouth of the Madawaska. The suppliants charge that the boom-master, by reason of the unskilful and nogligent manner in which he performed his duty, allowed a larger quantity of timber and logs than the boom was capable of holding to 1888 into it, in consequence of which the been broke, and the timber and logs of the suppliants floated out. That some of the logs were lost, and the suppliants were put to expense in recovering the others. The petition also alleges that the boom was negligently and unskilfully constructed. The petition prays that Her Majesty may be held liable for the losses sustained by them by reason of the unskilful and improper conduct of the boomnastor.

To this petition the Attorney-General for Canada demurred for soveral reasons, among which are:-That no liability on the part of Hor Majesty exists towards the suppliants in the premises, the Crown not being liable for the negligence of its servants. That no contract with the suppliants on the part of Her Majesty is shown, and a potition of right does not lie to recover damages not arising under contract with the Crown. That no liability on the part of Her Majesty exists by reason of the insufficiency of the boom or the want of care in the selection or employment of the slide-master, and that Her Majesty is not hable for the negligence of the persons having charge of such works.

The demurrer was argued before Mr. Justice Henry, and judgment given thereon in favour of the suppliants. From this judgment Her Majesty appealed to the Supreme Court. The iso was argued, and judgment reserved. This being the last appeal on the list, the Court rose.

### Here in Our Own Territory.

humself, but also sustains the viows expressed by us in relation to Mr. Little, the Canadian, who scourged him so merclessly. In regard to Mr. Mercer's strictures on the Chicago reporter, we have nothing to say further than that we are now fully satisfied that the representative of that paper misrepresented him.

With regard to the secrecy enjoined by the parties who employed Mr. Mercer, and the picking thereto, Mr. Mercer's memory must be that there was such a thing as "Christian gentleman, remembered that there was such as their of this month I again visited my family and was astonished to find him well and hearty they do accuse him of a breach of confidence:

Dear Sin.—As some one has sent me a copy of the Lumberman's Gazette, in which I see you are using my name in a very free way, and in a cory second man here owns the title, I beg to German paper of Stratford, Ont.

Mr. Mercer's strictures on the Chicago reporter, we have nothing to say further than that we have a surfact the whole and the kinks there to Mr. Bennett), have works wonders. Shortly before the New Year, when I visited my family and is works wonders. Shortly before the New Year, when I visited my family and shower as well as any body for my veracity.

The above facts are all there is to the member of the firm parchasin, the land, who is well known as a professing Christian gentleman, remembered that there was such a thing as "Christian do terribly, that he was perfectly stiff in a professing Christian gentleman, remembered that there was such a thing as "Christian do terribly. That he was perfectly stiff in the company of this tail and the kinks.

Mr. Mercer's strictures on the Chicago reporter, we have nothing to say further than that we analyse of the member of the m

### BAY CITY STATISTICS.

The Jumberman's Gazette, of Bay City, Mich. in its annual review gives the following statistics of the business of the Bay County mills :-

Lumber manufactured	972,820,317
On dock at close	252,120,929
On dock sold	118,005,117
On dock unsold	163,515,812
Lath manufactured	05,953,750
Shingles manufactured	354,925,600
Staves manufactured	47,480,959
Headings manufactured	5,440,917
Logs in mill boom	46,495,890

#### LIVERPOOL.

Mesers, James Smith &. Co.'s wood circular, of January 2nd, says :-

The wood market is enjoying a more extensive rest than has occurred for some years. The import has been small and may be considered now closed. The consumption has been good and has exceeded the import, and the present stock is the smallest held for some years past so that holders are firm, as there is no possibility of replacing any article they have on hand on the same terms. The open winter is general, extending over all the wood-producing countries. The Canadian mail, just in, reports the weather there more like April, and that this is seriously affecting the logging, while here building is still going on, thereby increasing the consumption, and reducing stocks largely. Freights aro without change, as is also the money market.

COLONIAL WOODS .- Yellow pine-The import is closed, and the stock is about one-half that of last year. Second-class wancy pine, 18 inch average, has been sold at 2s. 3d. per foot, prime at 2s. 6d. per foot, and short wood, 16 inch square, at 2s, per foot. Red pine-The stock is light; small average has been sold at 15d, per foot. Ash is onquired for, and may be quoted at 2s. Elm-The stock is sufficient. Black walnut continues in good demand, especially for good quality and large sizes : sales have been made at 5s. 3d. per foot for 20 inch, and larger sizes at 6s. to 64. 6d. per foot. Chestnut and square maple have been tried this year, and have come forward in good sizes and quality, but prices have not been equal to cost of production. Birch-The demand has been large, and prices have considerably improved; sales by private have been made for Pictou at 18d. foot, and St. John's, 604 logs, realized 181d. and 197d, per foot. Oak is more inquired for and the consumption is increasing; good wood is wanted, and the present quotations are from 2s. 11d. to 3s. per foot, and wagon scautlings, 2s. Sd. to 2s. 9d. per foot. N. B. and N. S. spruce deals-The consumption continues large, and, with the reduced supply, prices are firmer. The present stock is the smallest held for some years past, and is only one-half of last year's; the stocks wintering at the shipping ports are lighter than for many years, and the advices today report spring and summer weather in Canada, seriously affecting the work in the woods, which cannot progress without snow, so that this state of things it is be considered, along with high wages, cor revisions and scarcity of labour. The estimate of short supply next season is therefore put down at fully 25 per cent. less. The late sales have be a of Shedine at £7 13s. 9d.; St. John, inferior specification, at £7 12s. 6d., and by auction, St. John, at an average of £7 15s.; Musquash at £7 9s.; Dalhousie at £7 10s.; Bathurst at £7 10s. per standard. Pine deals - The stock is only .718 standards. and prices have improved; the last sales were at £7 In.(a £9 per standard for Dalhousie, and £7 10s, for Miramichi. Scantling and boards are wanted; the former have been sold at £7 24, 6d. per standard and the latter at £6 10x 60 £6 128. 6d. per standard. Quebec pine deals-There has been more enquiry and the stock is now 3,263 standards less than last year; sales have been made at advanced rates, and 3rd quality bright realized from £95s. @£910s. per standard; 2nd at £1 10s.; 1st at £20 per standard. Red pine deals. On account of the advance in Baltic reduced they are improving in value; sales have been made at £9 15s. per standard. cascamption of these will improve if shippers can give a greater variety of sizes and are more careful in the seasoning before shipment. Quebec staves are in good demand and the stock is nearly exhausted. Palings have been sold at from 65s. to 82s. 6d. per mille, aco any to di

mensions, Laths, 16s, per 1,200 pieces.

The arrivals since our last have been 30 vessels. 19,949 tons, against 31 vessels, 19,850 tons in corresponding period last year, and 27 vessels, 8,268 tons, in 1879.

From the 26th January to the 31st December,

31 : <del></del>	Vestels.	Tons.
Quebec	. 94	74,522
St. John, N.B., &c	201	162,457
United States	. 05	2×1,6×0
Baltio	139	57,079
Total	632	350,903
From the 26th January to t	ho 31st	Decembe

1880 ---

	CARCIE.	Tons.
Quebec	125	119,274
St. John, N.B., &c	293	217,976
United States		65,891
Baltio		90,257
maka1	712	450 500

From the 25th January to the 31st December,

79:—	Veesels.	Tone
Quebeo		66,740
St. John, N.B., &c	213	151,440
United States	42	37,150
Baltle	149	64,989
Total	447	314 337

#### Saw Dust.

There are 500 venders of sawdust in New York, with a capital of \$200,000 invested, and an annual business of over \$2,000,000. decades ago the mills were glad to have the saw dust carted away; 25 years ago it was worth only 50 cents a load at the mills. It is used principally at hotels, eating houses, groceries and other business places. When wet and spread over floors, it makes the sweeping cleaner work and prevents the raising of dust. Packers of glass, sods water, and many other small articles use it. It is used by plumbers about pipes and buildings, to deaden walls, floors and ceilings. Dolls and some living bipeds are more or less stuffed with it. Yellow pine makes the least dust and the best saw dust, and has a pungent, agreeable odor. Any white wood will answer for the above purposes. Black walnut sawdust, which has generally been burned because it would not sell on the market, has lately proved to be very valuable for the tumbling process of pin manufacture. - Lumberman's Ga. zette.

### Effects of Lightning.

In a grove of 500 popular trees, with telegraph wire passing near them, eighty-one, or about one-sixth of the whole number, have been struck by lightning, and this upon the south side of the trunk nearest the wires. Those farthest from the wires are very rarely affected by the electric fluid. The wounds made by this element are said to be of three kinds; first the bark is shivered and rent upon the side toward the wire, over a narrow portion of the trunk. Second, the thunderbolt traces upon the tree a farrow, more or less broad, according to the severity of the stroke, beginning at a parallel with the wire and descending to the ground, sometimes spirally, but most frequently in a straight line. Third, the wounds are peculiarly formed, being oval, and the edees of the bark are colored a clear brown. These observations were made by M. Montigny, at Didant, France.

TIMELA WARNING.—Now is the season for sudden colds and distressing concles, treat them with Hagy—'s Pectoral Balsam, it carres influenza, astuma, croup, whosping coughs, bronchitis, and all pulmonary complaints leading to consumption.

ing to consumption.

A healthy man never things of his stomach. The dyspeptic thinks of nothing else. Indigestion is a constant reminder. The wise man who finds himself suffering will spend a few cents for a bottle of Zopesa, from Brazil, the new and remarkable companied for cleansing and toning the system, for assisting the digestive apparatus and the liver to properly perform their duties in assumitating the food. Get a tencent sample of Zopesa, the new remedy of your druggist. A few doses will surprise you.

British The Respirator. A contlement of the content in the

druggist. A few doses will surprise you.

BISHOP BEVERTIGE. - A gentleman meeting the celebrated and excellent Blahop, Reveridge, asked him how he was. Beveridge replied. "If I answer in Latin, I amsic, sic, if in English, so, so." There are many, who, if they spoke truly would give the same answer as the excellent Bishop. They have contracted lung disease, or it may be are suffering from asthma, and in great danger of that fatal malady consumption. Take warning in time, use N. H. Downs' Vegetable Balsamic Elixir, it is really what many have called it, the "king" of remedies, Sold by all drugglets throughout the Dominion.

### Caledonian Hotel. GRAVENHURST.

GRAVENHORES.

JOHN SHARPE, Proprietor. This Hotel has been newly opened out, pleasantly situated on Main Street, within its minutes walk of Northern Italiway station har kept with best assorted Wines, Liquore and Cigars, Every attention paid to guests. Good Stabiling Litu

### Simcoe House. CORNER FRONT and SIMCOE STS. TORONTO, ONT.

ger liest accommodation in the City. Trithis 21 % and \$1.00 per day, according to Lecation of Rooms. WILLIAM HANCOCK, Proprietor. 1121

### 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

W. D. McDONALD, Proprietor.

### ${f J.~DAVIES~\&~Co.}$

46 Church Street, Toronto.

Sells all sort of Lumb / on Commission. Advances of Consignments Price given on application Whole Stocks disposed on very low Commission.

### E. S. VINDIN,

Commission, Shipping, Forwarding and General Agent.

### .UMBER MERCHANT

Office, Tempest's Block, Port Hope. 111

### FRANCOIS MARCHAND,

Manufacturer of all Descriptions of

STEAM BOILERS,

SHIPS WATER TANKS, Etc.

St. Roch Street, QUEBEC, P. Q. 11.7

### CANADA TRUSS FACTORY

(ESTABLISHED 1800.)

### F. GROSS.

Manufacturer of SURGICAL and ORT 10 11 CAL INSTRUMENTS, ARTIFICIAL LIMIS 12 older INDIA RUBBER GOODS of every described 11,14

688 and 690 Craig Street, I on real.

### P. PAYETT'S NEW IMPLOLED

### Adjustable Saw Guide

Can be adjusted without danger. You are saw off without taking the guide off he

All kinds of Brass & Iron (' 'ng

PLAINING and TURNING dos with Despatch. For particulars a lie

 $\mathtt{CRAIG} \ \& \ \mathtt{CAMEROM}$ 

PENETANGUISHER . GRATEFUL-COMFOR' ING.

BREAKFAST.

"By a thorough knowledge of the had which govern the operations of digestion as a continual by a careful application of the fine properties well selected Cooca, Mr. Epps has provided the fire fast tables with a delicately flavored between fast tables are flavored by the first may be gradually built up until strong emovery tendency to disease. Hundreds of a continue of flavored flavored

JAMES EPPS & CO., Homeopathic Conden London England.

### THOS. GRAHAM

(Established 1974), MANUFACTURER OF

### New Files: TO Old Files

IIAND CUT
and made from the
BEST refined English
CAST STEFL.
All xooks neath put
up in labelled boxes
for the trade, towhom
lowest prices will be
given.
Price List on appil
cation and Sampla
Order solicited.

Footows and Offices.

Factory and Offices: 114 35, SHERBOURNE STREET, TORONTO.

### WISDOM & FISH

IMPORTERS AND DEALERS IN

### Rubber 3 Leather Belting

RUBBER HOSE, STEAM PACKING. LUBRICATING OILS, COTTON WASTE

Wrought Iron Pipe and Fittings,

And all Articles used in the Application of Steam to Machinery.

No. 41 Dock Street, St. John, N. B. (SMALL'S BLOCK.)

N.B - Estimates for Steam and Hot Water Heating Apparatus farmished on application. All work Warranted. 1115

### "NIL DESPERANDUM."



### N. H. DOWNS'

Vegetable Balsamio

This valuable modicine is a trely vertable, the discovery of which we sho result of many years' close stuff, the electio discover the cause, the sumptoms and the cure-vis.

Consumption, Coughs, Colds, Catarrh, Croup, Asthma, Influenza, Pleurisy, Hoarseness, Spitting Blood, Bronchitis,

and every species of oppression of the Chest and Lungs. In all cases where this Elixir has been duly administered its efficiery has been invariably manifested, convincing the most incredulous that

### CONSUMPTION

is not increable, if properly attended to.— Consumption at its commencement, is but a slight irritation of the membrane which coverstb\_inuge; then an inisimmation, when the coughts more observable, but rather dry-then becomes localitive and the pulsemore frequent, the checks flushed and chills more commen. This Eliximmenting then becom-plaints, operates so as to rector all morbid irritations and infinamental report the lungs to the surface, and it saily expetition from the surface, and it saily expetited.

### IT HEALS THE ULGERATED SURFACES

and relicores the cough and makes the brailh ing casy. It supports the attrebuth and at the tame time reduces the fever. It is free from a strong opiate and astringent articles, which are of so drying a nature as to be in greating one of destroying the papilant; whereas this medicine never dries or along the cough is entirely gone. Consequently, when the cough is entirely gone. Consequently, when the cough is controly expensely the papilant is well. Need address for pumphing thing full directions for cure of pulmonary diseases. Price 25 cts. and \$1 per bottle. Sold everywhere.

HENRY, JOHNSONS & LORD, Prope MONTREAL, P. Q.

#### Travelling Agent.

MR. A. L. W. BEGG has been appeinted agent for the CANADA LAMBERMAN, and is authorized to collect subacriptions and grant receipts therefor and to make contracts for advertisements appearing in its columns.



DEVOTED TO THE LUMBER AND TIMBER INTERESTS OF THE DOMINION.

PUBLISHED SEMI-MONTHLY BY
TOKER & Co. PETERBOROUGH.

### Terms of Subscription:

One copy, one year, in advance	22	00
One copy, slx months, in advance	1	00
Advertising Rates:		
Per line, for one year	80	90
Per line, for six months		50
Per line, for three months		30
Per line, for first insert!on		10
Per line, for each subsequent insertion to 3 mo's.		05
Cards not occupying more than 12 lines (1 inch)		1
per annum	8	∞
Cards not occupying more than 12 lines (1 inch)		
for six months		∞ [
Cards not occupying more than 6 lines per annum	5	00
Cards not occupying more than 6 lines, for 6 mo's	3	00
Special rates will be made for page, half page column advertisements.	0 &	nd

Advertisements intended for insertion in any particular issue should reach the office of publication at east three clear days before the day of publication, to insure insertion.

All communications, orders and remittances should be addressed and made payable to Toker & Co., Peterborough, Ont.

Communications intended for insertion in the Canada Luberman, must be accompanied by the name of the writer, not necessirily 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 date of the next issue.

PETERBOROUGH, Ont. FEB. 1, 1882.

Mn. Wn. Tair, of Gravenhurst, has sold his saw mill and timber limits to Mr. Chas. Mickle, for something over \$20,000.

A MUSKEGON paper asserts that in making an inventory of its property, the Muskegon Boom Co. found that its boom chain was 31 miles long, and a value was placed on it amounting to \$32,000.

Two lumber camps at Hubbard Lake claimed the same landing. The result was a kind of guerrilla warfare, until the men at one of the camps cleaned out the other—the foreman of the vanquished camp taking to town in his shirt sleeves.

The season thus far has been open in Norway as well as in this country. Cutting timber does not begin in that country till the frost makes the bogs passable, and the snow permits of hauling logs. Both these conditions were wanting at a late date.

Probably more saw mills are being operated this winter than ever before in the history of lumbering. This is owing partly to the open weather so far experienced, but more to the great demand for special sizes which have to be cut to order.

For the season of 1881 Cheboygan shipped board timeer, 410,000 cubic feet; cedar posts, mixed, 40,500; cedar posts, paving, 80,750; cedar railroad ties, 117,500; hemlock ties, 2,000; tannarac ties, 2,000; telegraph poles, 5,000; tan bark, 673 cords. It is estimated that during the coming season she will ship 150,000 posts, 100,000 ties, and 500,000 cubic feet of board timber.

The last quarterly roport of the state board of agriculture of Kansas contains a statement of the number of acres of timber planted and graving in that state, other than the native forests. The statement is made by counties, and the totals appear as follows:—Walnut, 5,895 acres; maple, 6,453; honey locust, 1,215; cottonwood, 39,108; esage orange, 617; catalpa, 788; other varieties, 38,768.

The shipbuilding trade on the Clyde has now assumed gigantic proportions. From the statements of the launches at five districts on the river—say from Glasgow to Greenock, or within a distance of 22 miles—it is shown that there have been built, during 1881, 217 steamers and 52 sailing vessels, representing a total of \$31.868 tons, and an estimated value of about \$27,000,000. The largest steamer launched was 7,302 tons register.

THE failure of McGauvran, Tucker & McDonnell, of Montroel, is reported. This firm were engaged in the lumber trade, and effected a compromise with their ereditors in 1879, at 50 cents on the dollar. Their present liabilities are placed at \$200,000, the heaviest creditor being the Bank of Commerce, which has a secured claim of \$30,000, and an unsecured one of \$10,000. The assets are nominally placed at over \$200,000, of which \$150,000 is in real estate.

The Montroal iWitness says that a contemporary makes a good suggestion in proposing to make the approaching Forest Preservation Convention in Cincinnati an international affair, so that Canada might take part in it. Of course a Canadian convention could be arranged for, but the combined experience and thought of the whole continent upon the subject, which would find expression in an international convention, would return greater benefits to all concerned than would separate conventions.

The Globe in its annual report of the trade of the city of Toronto, estimates the consumption of lumber during 1881 at 80,000,000 feet, (as against 65,000,000 in 1880), made up as follows:
—Lumber, 45,000,000 feet; shingles, 15,000,000, and lath, 2,000,000. The same report also notes a considerable development during the past year in our native hardwood trade, and predicts a good demand next season for black ash, maple, elm, and birch timber, all of which are now being largely used in the manufacture of furniture.

An Ottawa correspondent says that the unprecedented scarcity of snow at the beginning of the season has had the effect of considerably shortening the lumbering season, yet reports from these districts are not such as would lead to an anticipation of any shortage in the supply for the season. The recent fall of snow has greatly facilitated the hauling of timber from the more remote districts, and it is being prosecuted with great vigour. The fears entertained by some of the lumbering firms at the commencement of the season that there would be a scarcity of teams occasioned the unusual high rates that provailed at that time, since when, however, rates of hire have considerably fallen, and no scarcity of horses is reported. In many of the higher and rougher districts the absence of a sufficient quantity of snow renders the hauling still somewhat difficult.

### WOODS AND FORESTS.

An attentive reader of the debates in the Ontario Legislature, now in session, cannot have failed to notice the fact that unusual attention has been given to the subject of our forests and the lumbering industry. Of course the disallowance of the Rivers and Streams Bill has raised much discussion, and several members have devoted much of their attention to it. But this is not all. Member after member has spoken, at more or less length, as to the necessity for protection from fire, the preservation of timber, and the perpetuation of our forests. But though this is very satisfactory, as showing the increasing interest that is felt in this important subject, it is unfortunate that no practical step has been taken in the matter.

The establishment of a separate Department of Woods and Forests would be of great public benefit. We hope that the Government will take this matter into immediate consideration, for there is now no more important subject to which they could turn their attention. If the administration does not act in this matter, some private member, and there are several who are fully computert, would render a public service, and secure for himself the gratitude of the whole community, by taking up the subject and

pressing it upon the attention of the House and the country.

With the fermation of such a department we feel confident that a better system in regard to our forests would be inaugurated, and therefore we abstain for the present from pointing out the details of the legislature that is desirable.

Who will move in this matter and earn the thanks of the whole country?

#### TIMBER STATISTICS.

The United States Government have already issued several valuable documents giving the statistics of their forest areas, as compiled from the recent census returns. There is thus made public, on the best authority, the extent of the forest wealth of the country.

We trust that our own Government will follow this good example. It is of the utmost importance that we should know the extent of our standing timber, and the probable duration of the supply.

It is true that rather unfortunately the crown lands and forests were vested at Confederation in the several Provinces, who enjoy the revenue to be derived from them. But in reality this is no Provincial question. The whole Dominion is deeply interested in the prosperity of the lumbering industry, and has even a greater, if deferred, interest in the preservation of our forests, in view of the probability, that if the present system continues, we may in time become a timber importing, instead of exporting, country. These considerations make trustworthy statistics very desirable.

#### APPRECIATED.

We publish the following as a specimen of many gratifying communications that we are receiving, and which prove that the CANADA LUMBERMAN is appreciated:—

BISMANCK, West Lorne P.O., Jan. 17. To the Editor of the Canada Lumberman:

DEAR SIR,—Herewith find two dollars for another year's subscription for the CANADA LUMBERMAN. It is really a valuable paper for lumbermen, and I was glad to see you start it. Hoping you will have the success your enterprise deserves, I subscribe myself as one of your patrons and wellwishers,

J. C. Schleihaup.

### LOSS BY FIRES.

From a Special Correspondent.

The loss sustained by mill owners through fires in I881, as far as ascertained, is as follows:—

Henry Allen, Stayner, Ont \$10,000
Anderson & Tonnant, Hendrie, Ont 15,000
Ball, Calcdonia, Ontpartially insured
Thos. Bryson, Coulonge, Que 16,000
Robt. Blugham, Bordeau, Ontunknown
John Boyd, Whitevale, Ont 2,000
M. Cryderman, Northampton, Ont 1,509
O. Collins & Co., Gorrie, Ont 4,000
Coleraine Mining Co., Black Lake, Quo. 15,000
S. M. Elliott, Elgin, Ont 2,000
A. Eyer, Richmond Hill, Ont 10,000
E. B. Eddy, Hull, Quo 15,000
H. R. Fleming, Weydale, Ont 500
W. A. Fraser, Wallacebury, Ont 4,500
Jos. Gaudette, St. Anne's, Que 15,000
Georgian Bay L. Co., Waubaushene 75,000
H. Gawley, Relle River, Ont 6,000
J. W. Harrison, Brantford, Out 4,000
Howard, Etchemin, Que
R. Irwin, Spence, Ont 2,000
Geo. Kent, Delta, Ont
Kingsford & Co., Lindsay, Ont 6,000
J. Lawson, Orangeville, Ont 3,000
Papineau, Montreal, Que 30,000
Suider & Goff, Holton, Ont 3,000
Scott & Wagrain, Napanee, Ont 2,000
W. Talt, Gravenhurst, Ont 14,000
A. Thompson, London, Ont 4,000
Woodstock Lumber Co., Gravenhurst, unknown
Lindsay Mills, Lindsay, Ont 20,000
minusery series, series ary, Ottomaria and 20,000

### THE SWEDISH SUPPLY.

The Timber Trades Journal says that although the returns of the exports from Sweden for 1881 have not fully been made up, we can, by adding about 5,000 standards for December—and the amount seldom exceeds these figures—come pretty near to a correct return. Making this addition, we arrive at the following comparative rough totals of the exports of sawn and planed wood from Sweden for the last ten years, and likewise for the year 1868, all expressed in St. Petersburg standard hundreds, viz.:—

1869	430,000	1877
1872	550,000	1878 565,000
1873	. 535,000	1870 620,000
1874	. 500,000	1880
1875	. 500,000	] 1891 660,000
1 1876	. 585,000	· ·

Those are remarkable figures, and show that if the increase for the next fourteen years is in anything like the same proportion as in the fourteen last years, we shall be up to a million standards before the century is out. The possibility of such a thing will doubtless be tabooed by many members of the trade here, but I do not consider it at all unlikely. The population of the United States and Canada is increasing at the rate of about one and a half million yearly, and, if we are to lay any stress at all on the outcry in those countries, the dark spot on the horizon of the Swedish timber trade, referred to in the late report of the Society of Saw Mill Owners, &c., viz., America, may be expected to diminish in size yearly, and, if so, the forests in Europe will be called on for an incrossed supply. The question whether they are capable of supplying this increased domand in perpetuity is another thing, that cannot be ontered into here with advantage.

#### Lumber Districts in the South.

A Southern States paper gives some facts which show that those who prate continually about the imminent exhaustion of forests leave a most important forest country out of account. The States of Tennessee, Alabama, Arkansas, Florida, Georgia, South Carolina and West Virginia, contain in the order named from 58 to 66 per cent. of forest land, whereas, Maine and Michigan, which now produce one-half of the lumber used, contain only 47 and 40 per cent. of forest land. North Carolina, Louisiana and Mizicipi have an even greater extent of forest land still untouched than the states just named. Neither is the world generally aware of the good quality of the timber in the south. All the trouble is that, owing to the absence of snow the wood is not won so cheaply as in the north.

#### Clasgow.

The 2 imber Trades Journal, of Jan. 7th, says that there has been little business done during the past week, being the New Year holiday season. Imports of wood to Glasgow and Greenock amount to 500 loads, consisting of sundry parcels of wainsot oak and staves, &c., and a small cargo of Riga redwood at Greenock. In view of prospective requirements for shipbuilding and other operations the aggregate stock (all descriptions of wood) now in the Clyde ports appears moderate, being decidedly under the average of the three preceding years, though equal on the whole to the quantity held a year ago.

### Wood for Paper Making.

Wood is going in to the Yarker paper mills with a rush in this good sleighing. The thermometer is 22° below zero. The Napanee Paper Mill Company are buying up all the standing wood in the vicinity. They bought 600 acres from E. W. Benjamin, in the drowned lands, for \$6,000, for the wood, and also purchased all of H. McConnell's in Portland. They are drawing the wood to the river bank in order to fleat it in the spring to the mill. The Napanee Paper Company want to get a start of the new Company.—Kingston Whig.

It has been decided by the Menominee, Michigan, Manufacturing Company to cut a sluiceway around Little Quinnesec falls, on the Michigan side of the Menominee, to facilitate the driving of logs, and to prevent their becoming injured by battering on the rocks as they pass the falls.

THE Timber Trades Journal says:—"We notice the prospectus of a new company, which may possibly affect the supply of pine deals to this country. The "Dominion of Canada Freehold Estate and Timber Co., Limited," is formed to acquire possession of an estate of 80,000 acros, aituate on the banks of the St. Lawrence, about 150 miles from Quebec, and nearly opposite Rimouski. An engineer's report, accompanying the prospectus, sets down the value of the timber at £800,000, said to consist of pine, red and white spruce, silver birch, and aspen. With a working capital of £15,000, the annual profit, to be derived from the sale of timber alone, is estimated at £24,000.

THE Timber Trades Journal says that serious havor was committed in the policies and woods of Dunse Castle by the gale of the 14th October, thousands of trees having been uprooted. In the avenues and parks around the castle, sixty fine old trees, many of them of large dimensions, have been replanted; the remainder of the fallen timber, estimated at over 50,000 trees, has been sold to Messrs. Brownlie, Earlston, who engage to remove it within four years. The purchasers are to be allowed to erect sawmills on the estate to cut up the wood.

LAME BACK.—Lumbago, Kidney complaint, Neuralgis, Rheumatism, and all pain and in-flammation are speedily cured with Hagyard's Yellow Oil. Croup, sore throat, colds, burns, scalds, bruises, frost lites, chilbiains and all wounds of the flesh are quickly healed by Yellow Oil.

Yellow Oil.

"Don't Give up The Ship." were the memorable words of Commodore Perry. We repeat, "Don't Give up the Ship," poor, despah invivolid, but try Burdock Blood Bitters. It cures others, why not you? It renovates, regulates and tones all the organs of secretion, and restores lost Vitality.

How to Cure a Cold.—Upon the first feeling of chill or shivering romain indoors if possible, bathe the feet in tepid water, gradually increasing the heat as long as it can be comfortably borne, drink freely of warm ginger tea or sage tea, to induce perspiration, and take Hagyard's Pectoral Balsam according to directions on the bottle. Hagyard's Balsam cures coughs, asthma, and bronchitie.

HAD SUPPRIED MANY PHYSICIANS and grew

and bronchitis.

Had Suppered Many Physicians and grew no better but rather worse. Mr. D. H. Howard, of Geneva, N. Y., after dismissing his physicians, tried nearly half a gross of the various blood and liver remedles advertised, no henefit; when one bottle of Burdock Blood Bitters cured him of Paralysis and General Debility. At the advanced age of 60, he says he feels young again, and is overjoyed at his wonderful recovery.

### CHOPPING AXES

(Made to Order and on hand.)

MILL PICKS DRESSED in a first-class style.
Those shipped by rail will be returned promptly.

\*\*Tlance Tooth Saws Gummed. AXES
WARRANTED.

W. HERLIHEY, Lindsay.

### NEW FOUNDRY FIRM.

### McLean, Brayshaw & Co

Simcoe Street,

### PETERBOROUGH.

CASTINGS of every description in Brass and Iron.

All sorts of MACRINERY for Saw and Grist Mills.

STEAM FEED for Circular Saws. Also Saw Gummers, Cutters, Double Upset Swages, and all Saw Tools. Send for Price List.

### CANADIAN PACIFIC RAILWAY COMPANY.

The Canadian Pacific Railway Company offer lands in the FERTILE BELT of Manitoba and the Northwest Territory for sale at

### \$2,50 PER ACRE,

Payment to be made one-sixth at time of purchase, and the balance in five annual instalments, with interest at SIX PER CENT,

A Rebate of \$1.25 per ACRE being allowed, on certain conditions, for cultivation and other improvements.

### THE LAND GRANT BONDS

of the Company, which can be procured at all the Agencies of the Bank of Montreal, and other Banking Institutions throughout the country, will be

Received at 10 per Cent. Premium on their par value, with interest accrued, on account of and in payment of the purchase money, thus further reducing the price of land to the purchaser. Special arrangements made with Emigration and Land Companies.

For full particulars, apply to the Company's Land Commissioner, Jolin McTavish, Winnipeg; or to the undersigned. By order of the Board.

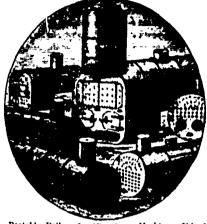
CHARLES DRINKWATER. Montreal, December 1rt, 1881.

John McGregor & Sons,

MANUPACTURERS OF ALL RIVES OF

STATIONARY,

MARINE, and LOCOMOTIVE BOILERS. And SHEET IRON WORK.



Portable Botters for Threshing Machines, Shingle Mills, etc., furnished on short notice. All Bollers tested by cold water pressure to 150 lbs. to the square inch before leaving the shop,

### SECOND-HAND MACHINERY

BOUGHT, SOLD, OR TAREN IN EXCHANGE FOR NEW WORK.

Repairs Promptly Attended to.

188 Atwater Street, Detroit, Mich. BRANCH SHOP,

Cor. Glengarry Ave. & Stuart St. WINDSOR, ONTARIO

Union Street, - - - Carleton, Warerooms, Water Street.

ST. JOHN, N. B.

### Allan Brothers

(Late of Harris & Allen)

MANUFACTURERS OF ALL KINDS OF

Steam Engines J. L. Goodhue & Son

### MILL MACHINERY

Ships Windlasses; Iron Capstans

and Ships CASTINGS of all kinds.

Ships Cambooses & Cabin Stoves COOKING AND HEATING

### TOVES,

Shop, Office and Parlor Stoves, and Franklins.

### Agricultural Implements.

BRASS CASTINGS.

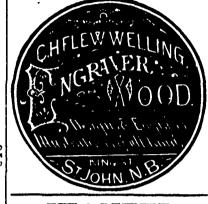
Tin, Sheet Iron and Copper Ware for SHIP and HOUSE use.

# CURRIE BOILER WORKS

### BOILERS

NEW and SECOND HAND ENGINES and other Machinery on Hand and for Sale.

### RRIE, MARTIN &



### Has Facilities

### DOING as GOOD WORK

### PROMPTLY

As any Engraver in Canada

ESTIMATES FURNISHED.

### $\mathbf{WANTED}$ .

TTOGEA

250,000 ft., board measure, of First Quality WHITE OAK TIMBER,

100,000 feet of one-inch PINE BATTENS, for Car Sheeting.

For further particulars address P. O Box 514,

MONTREAL, QUE.

### J. T. LAMBERT.

Lumber and Commission Agent.

### FOR SALE.

150	Mile.	White Pine.	1 x 10 Stock.
175	44	do	1 x 12 "
11	"	do	2 x 10 "
20	61	do	2 x 12 "
140	**	do	1 inch Siding
20	**	ão	1}
ŧŏ	**	go	2 x 10 Jointa.
16	**	Codar.	3 x 6 "
iš	46	Basawood.	11 inch.

APPLY AT THE OFFICE, WELLINGTON STREET, OTTAWA.

# Leather Belting

Patent Lace Leather.

2124 DANVILLE, P. Q.

### PATENTS!

Wo continue to act as Solicitors for Patents, Careats, Trade Marks, Copyrights, etc., for the United States, Canada, Cuba, England, France, Germany, etc. We have had thirty-five years experience.

Patents obtained through us are noticed in the Science of Science, in the Science of Science, is very interesting, and has an enormous circulation. Address MUNN & CO., Patent Solicitors, Publishers of Science, is very marked of Science, in the second of Science,

### LOWEST PRICES FOR PURE MANILLA ROPE.

All sizes, American Lath Tan Oakum, 0-16 and 5-8 Proved Chain, Wrought Spikes, Rafting Augurs, Millwrights Tools, &c.

### GEORGE STETHEM,

Importer, Jobber, & Retail Dealer in Hardware,
PETERBOROUGH, 'NT. 315

### JOHN

Esplanade Street, Toronto.



Marine Engines,

MARINE BOILERS. Propeller Wheels and Steam Yachts

### ROBERT SMALLWOOD

MANUFACTURER OF

The Patent Lever Feed Shingle. Box Board & Heading Machine

(Always takes First Prize.)

### Rotary Saw Mills

IN FOUR SIZES, and other

MACHINERY for SAW and GRIST MILLS.

SEND FOR CIRCULAR. CHARLOTTETOWN.

PRINCE EDWARD ISLAND.

#### FORESTRY, ITS CLIMATIC AND HYGIENIC of America, if the remnant of our once magnifi-INFLUENCE.

The following casay, by M. McQuade, Eg mondaille, we take from the report of the Agri cultural and Arts Association of Ontario, for

"Remarks, -If the following rough sketch shall be the means of adding one acre to our forcet area, shall add fertility to one acre of land, shall be the means of adding to the beauty of our landscape, the comfort of one family, the grateful feelings of one true Canadian, the efforts of the writer will be amply rewarded.

How rapidly our world moves, and circum stances with it! Seems but yesterday since he who would think of saving timber in Ontario would be considered a madman. It is only forty years since this part of our peninsula was almost an unbroken dense and magnificent forest, when the sole aim of the pioneer was how most readily to get the timber burned, de etroyed, or put out of the way in any fashion most a callly. Such a desire was commend able under the circumstances, but the practice has been carried too far by all and to a ruinous cations by some partly through ignorance, and partly through a mistaken desire for gain, by which they bartered the few remaining trees for a few cents. The plea set up by this class of people is that an acro of grass or grain is worth more than the timber. This would be ver, good thirty years ago, when clearings were small, but when the timber belts are getting so than that they are scarcely sufficient to break the large of arrest the snow drift, when the want of these want-nly sacrifices his few remanning trees recause cordwood is three dollars a coad, such a one is not only inflicting an irro pain' he less on himself, but on the whole com manny. A custom provailed, at least in this ciemity, of cutting down overy tree and twig alone, madsides and boundaries, leaving the country trepless and marked only by dead line Such conduct is wrong, and can be corrected by planting rapid growing trees on road-ides and boundaries, and the sooner the letter for all concerned. Want of knowledge of nature's laws is the cause of such a state of things. Our ordinary farmers never imagine that a few trees scattered through their fields con have any effect on their grain crops other than as so many obstacles in the way of the plough, the resper, and the horse rake, and the lay who drives these declares that they should la cut down. We all know that it is very convenient to have a piece of timber to furnish our winter' fuel, to make a few fence rails and the like: but how fow over think that those trees are not only nature's ornaments, but the farmer's best friend in tempering either a hot or cold climate, in producing copious dows, frequent showers, increasing snow falls, not to speak of their grateful shade, friendly shelter, and mercantile value. How many of our people think f these? How many can believe the natural fact that when our timber belts shall have been cut or blown down, the farmers of Ontario can no more grow fall wheat than they can in Minnesota and Dakota , that showers in summer will be rare and uncertain, that those terrific storms which cause such destruction in plantic districts will sweep our Province with merciles fury, that our overflowing springs will diminish and dry up; that where water can now la not at from lifteen to twenty feet, none will then expt: that our rivers will dwindle down to a few stagnant shallow pools; and that the crystal brook in which the speckled trout was went to leap and gamble, in days gone by, now presents only a crooked line of dry gravel from Jane till January? In those days of universal tillase the grass will burn off the earth, the cattle perish for want of water-and why? Because we have not the everlasting snow-capped mountains hanging over us to feed our creeks and springs, because we have destroyed our forest trees which nature's Great Architect planted for that purpose. Do our people know all this? Will they believe it when told? O: that some mighty genius with the tengue of Demosthenes, elequence of Cicero, and pen of Homes, would proclaim it in every hamlet throughout the length and breadth of our fine young Province before it is too late! Will not the press of our country appounce in thunder tones the dire fate that awaits this garden spot earth going nearer the source of heat? Certain- room, when, in a few minutes, it will be covered to 2,852,000 pounds. The rain at that place

cent forests is not spared and saved from utter

Someone may say that we have been trying to manufacture an agricultural fright, that we are courting an imaginary evil. Would that we were wrong, or that nature's laws could be reversed. Such is not the case, however; they are all stubborn facts, and in painting them we have not used the darkest colours, nor even the deepest shade which our brush would give in the hand of a master. We shall try, in a simple and familiar way, to prove what we have advan ced from a farmer's view of the case, with a few facts from science as corroborative evidence, and we must remember that when nature speaks she means it, and science applied is nature's

voice medified. Everyone will admit that a fertile soil is the must desirable feature in a farming country, but a soil to be fertile and retain its fertility must be irrigated from the clouds, either by snow or rain. It is also a melancholy fact, too natent to many on some of the prairie sections of Western Kansas, that a soil, however fertile, is usoloss without rain, and what is true there : true here. Take our richest land and sow it with any crop and let not a shower fall on it from January till November, what will be the result? Failure. Rain must be had to grow a crop on any land away from the sea shore, frequent showers mean good returns in a warm climate. To insure these, there must be a source of supply and means of distribution. There must be a wet surface from which the rain cloud can be formed; there must be a medann to attract and condense that cloud, else it will constantly float in mid air and never descend. We must remember that rain and less clouds are produced by evaporation from the wet surfaces on the earth, just as steam rises from a boiling kettle. Now, it is easy to understand that if the kettle is dry there will be no steam. In the same way, when our water supply runs short, our dew and rain clouds will he deficient. What is the experience of the old settlers on this point? Will they say that our water supply is now what is was forty, thirty, twenty, or ten years ago? Let the facts speak. Thirty years ago the brook which runs through Egnandville furnished water to turn s great undershot wooden bucket wheel, about eight feet wide and ten feet in diameter, to drive two run of stone, also sufficient to drive s saw mill. The saw mill ran during about six months, and the grist mill had water to run the whole year through, except perhaps a week or so in Soptember, when a full head could not be got. Imagine the volume of a stream eight feet wide and two feet deep at a rapid current for twelve months. A few years later water began to shrink, when the old bucket wheel was displaced by a centre discharge, and the saw mill was put on short time. Ten years later the grist mill had to rest in September by reason of low water. It after this passed into other hands and an improved turbine took the place of the centre discharge, but even with this great econonuzer of water power, steam had to be introduced, and this magnificent stream has to-day, and since the middle of June, not sufficient water to wet it's bed, except in a few places. where some bush land is on both sides, a few small pools of green, stagnant water may be found. Twenty years ago the love, of sport could catch trout, bass, chub and suckers, at any time in summer, from Bayfield to Dublin, or shoot the at your wood duck; to-day there is not sufficient water in its whole length to keep a decent family of frogs in drink. This instance is the history of all similar streams in this country. Twenty years ago there were swamps and patches of low land, where water could be got for cattle, if not on the surface, at most at the depth of a foot or so during the driest part of the summer; now, twenty to forty feet is the level, and, at the time of writing (the 16th August), complaints are numerous that wells of twenty feet and over, sources which did not fail in the past thirty years, are dry. What a change-gradual, sure and great; leaving cattle and owners without a drop to wet their tongues. Since every effect has a cause, we must have one for this great change. Will anyone say that the days are getting longer, the sun hotter, the

ly not. Then what great physical cause has brought about this physical result, for the cause is here and is local? What local change has taken place over the face of our country in forty years, and has continued up to the present time? What is the comparative area of tillage and timber land now and thirty years ago? He who will answer this question exactly will show the cause why wells and streams are dry at present. He who, on this data, with the present rate of destruction of our woods, would institute an exact mathematical calculation, could determine how long it would be till farming and stock raising must cease in this part of Ontario, how many years it would take to cut off our water aupply entirely during the summer months, except what might accidentally be got from some stray tornado or violent snow storm in winter. We may venture a rough estimate at present. We now know the cause, and, since it is local, shall not take in the whole country, but use the two adjoining townships for comparison. Forty years ago the proportion of woods to cleared land was about an 98 to 2; thirty years ago, as 80 to 20; twenty years, as 70 to 30; ten years since, as 60 to 40, and to-day, as 15 to 85. water supply has dwindled down from 60 to 15 inches, or 400 per cent. in ton years. We hope to be able to prove that it must always, in an inland country like ours, keep in exact proportion with the area of timber growing in the country immediately around.

HOW GROWING TIMBER ATTRACTS MUISTURE FROM AIR AND PRODUCES WALER.

To understand how timber land acts in condensing moisture from air, we must have some idea of the agencies at work in the structure of it and the effects of these agents on external air; in other words, we must have some idea of how trees grow. This we shall try to sketch in a few simple words. The tree, like every other vegetable, is made up of two kines of substances. one called mineral elements and the other vege table, or organic elements. The first set of elements is composed of the alkali s, potash, sods, with flint and rust, or what ch mists call oxide of the metals, iron, magnesiu. manganese, calcium, together with sulphur, page phorus, and traces of other minerals sometimes, These substances it gets from the subsoil, and when we burn a piece of timber in the open air, they will be found in the ashes. Now, if we examine the little mouths of the roots, or the sap vessels of the new wood, we will easily conclude that pieces of iron rust, little grains of manganese, pieces of limestone, little bits of bone dust, or granules of flint, could nover get through them alone, although all these are formed in the ashes, and therefore formed part of the wood. They entered the extremities of the radicals in a decomposed form and in perfeetly thin solution. The air enters the soil, seizes the mineral compounds, decomposes them, reduces them to their simple elements; the water of the soil and the subsoil takes up the newly-born substances, some as gases, others fine atoms; the little spongy roots suck up the water, which is now the sap that courses through the newer wood; it reaches the leaf, where the air again acts upon those mineral elements and prepares them to form part of the vegetable structure by being deposited in the rind, or where the next coating of new wood is to be formed. The water which carried them to the leaf, having performed its mission, is poured out on the air as vapour. Herein lies the bene-Who has had on a garment thoroughly wet through to the skin and allowed it to dry on his back and felt warm all the time? Even in the warmest day in summer will not a wet shirt produce cold? Everyone knows how much heat is required to boil water in the open air. It is just so at the surface of the leaves; every drop of that water which was thrown off is changed into steam and the operation sends a volume of cold, or, philosophically speaking, destroys or absorbs a volume of heat in the air, and the result is the condensation of the vapour of the air into rain clouds which, when of sufficient density, come down in showers. Where vegetation flourishes, the air is always humid. and only needs cold to bring it down in dow, rain or snow. To illustrate this, let anyone fill a jug or glass pitcher with cold water, wipe the outside perfectly dry, and set in a close, warm

with dew; and if the room has been quite warm and the water below 40 degrees, the drops will assume quite a considerable size and run down to the table. This is a ministure example of what is going on above the tops of our forest trees. But we saw that the trees drew a large supply of water from low down in the subsoil. they also condense much of what is constantly flowing around them in the air and suck it in through the lower layer of veins in the leaf, strain the carbon, ammonia, and other vetegable foods from it; then send it out again through the upper layer as vapour, still adding to the cooling process. This accounts for the refresh ing coolness experienced under the shade of growing trees, and the greater the heat of the weather, the more rapidly will evaporation go on and the more cooling the shade. Hence, no shade artificially constructed can equal na ture's living canopy, so beautifully designed and wisely constructed that they not only neutralize the fierco rays of the sun, drink up personous and noxious vapours, but pour out a plentious flood of oxygen to vivify man and beast under the debilitating and lethargic influence of continuous hot seasons. This is called ozone, and is composed of two measures of oxygen gas in chemical union. So wonderful is its effects supposed to be, that it was made a specific by quacks and itinerant medicine men; yet, beneath the shady ardour, or in the open forest nature showers this precious medicine around our heads. Aithough not strictly relating to forest growth, yet a product of it, a hint of its source may not be uninteresting here. All the minural elements which are carried from the subsoil are united to oxygen in their natural state, but since the tree does not need this exygon, it is set free in the leaf; the carbon of the soil, as well as the carbon of the air, which the tree must have, are both got through union with this same oxygen gas. Here, then, is a double supply of oxygen to spare, and a chemical union takes place, forming the double oxygen compound, ozone. Not having an authority by me, I cannot give its specific gravity, but conclude that it must be heavier than air, and, therells rapidly towards the earth. From those facts it is clear that no shade for man or beast is equal to green spreading foliage. Cattle especially should have plenty of such shade, and milking should be done under the shade of trees with green grass under foot if we would secure pure, sweet milk, free from unhealthy odors. HOW MUCH WATER IS TIELDED BY AN AURE OF

woods?

Since we know with certainty that on growing timber we must depend for our supply of water, a very natural question is, How much water will an acre of our forest supply during the season of growth? This question can only be answered with approximate certainty, as it will depend on the leaf surface, the age, vigour and kind of trees, as well as the length of day in summer, the duration of the growing season. and the heat and light to which it is exposed, together with its situation in a moist or dry atmosphere, as well as the general rate of motion of the air during the season. In order to solve this question, Professor Rutland, Vermont, instituted an experiment in 1789. The tree selected was the hard maple. Two leaves and a bud of a branch were sealed in a bottle while yet attached to the tree. The expired water collected and weighed was found to amount to 16 grains in 6 hours. The tree was 81 inches in diameter, and thirty feet high. It was cut down, and the leaves carefully counted were in number 21,192. Supposing all these to have evaporated like those in the bottle, they would have expired, in twelve hours, 339,072 grains of water. A very moderate estimate, and below the usual quantity of wood per acre of similar land, gave four such trees to a rod, or 640 per acre. grains to a pint, 3,875 gallons, or 31,000 pounds, of water were evaporated from an acre of woodland in twelve hours. On the 26th of May the manle leaves were one-sixth of their full size, and on the 15th of September following these leaves began to turn white. By throwing the fifteen days in September and the four days in May out of the calculation, the leaves may be considered fully developed for the three months. During these ninety-two days the evaporation would have amounted, at twelve hours a day,

during that period was 43 4-10th pounds to every square foot of surface, equal per sere of 43,560 feet, 1,890,504 pounds. From this it is clear that the amount of water by evaporation from an acro of woodland exceeded the quantity of rainfall during the same period by nearly 1,000,000 pounds of water to the same area, and, if the calculation had taken in fifteen hours to the day in July and August, as expiration goes on rapidly when the sun shines, the quantity would have been much larger.

Such experiments are of vast importance in determining the proportionate quantity of timber to cleared land, in order to secure a sufficiency of ramiall during the summer. But this one, though valuable in proving one of nature's laws, is not of any definite practical importance as a means of guiding us in Ontario, since our location is different with regard to many important ossentials, such as soil, proximity to ocean, elevation above sea level, and relative timber and cultivated surface; but such an experiment, carefully conducted, in any particular locality, and careful estimates based upon it, should be able to estimate pretty correctly what area of loaf surface would be required to insure a full crop under ordinary circumstances.

[To be continued.]

#### Preserving Woods.

That mortar is a preservative of wood is a fact well known, and many instances are noted of its value for this uso. It has recently been stated that a schooner of unseasoned Maine timber, laden with lime, which went ashore and bilged forty years ago, was raised some time after and is still in service. Another instance is that of a platform, consisting of nine planks, which had been used successively by father, son and grandson for mixing mortar, was thrown aside, allowed to be overgrown with grass, and after sixty years was resurrected, and found to be in a perfect state of preservat.on. It is somewhat remarkable that no systematic attempt has hitherto been made to utilize this knowledge; but recently a method has been brought forth in Franco, based on these facts, which is simple, cheap, effective, and requires no special apparatus. It is described by a contemporary as follows .- Pile the planks in a tank, and put over all a layer of quicklime, which should be gradually slackened with water. The time required depends on the thickness of the wood. Timber for mines will be thoroughly ir pregnated in about a week. The material is said to acquire remarkable consistency and hardness after this process.

#### The Big Trees.

The Secretary of the Interior in his annual report asks Congress to enact a law for the protection and preservation of the famous "big t ces" of California. These trees, the giant redwood and the overgreen redwood, are found chiefly 'n two townships in the northern coast range, and a similar area in the southern part of the State, and they are not found of equal size anywhere else in the world. They are giants of growth, being 350 to 400 feet in height-and with a circumference in proportion; and they are as venerable as they are large, being at least a thousand years old. And yet they grow on public land subject to entry at \$1.25 per scre, and may be bought up and destroyed by anyone who wishes to make such a use of them. They have excited the wonder of scientific men in this country and Europe, and our government has been asked repeatedly to take measures for preserving them. It is to be hoped that Congress will comply with Secretary Kirkwood's recommendations.

HAUNTED ME -A Workingman says: Debt, HAPNED MR.—A Workingman says: Debt, poverty and suffering haunted me for years, caused by a sick family and large bills for doctoring, which did no good. I was completely discouraged until one year ago, by the advice of my postor, I procured Hop Bitters and commenced their use, and in one month we were all well, and none of us have been sick a day since; and I want to say to all poor men, you can keep your families well a year with Hop Bitters for less than one doctor's visit will cost."—Christan Advocate. Christian Adrocate.

"And fools who came to scoff remained to pray."—We receive many letters from those having tried while doubting, yet were entirely cured of dyspopsia and liver troubles with Zoposa, Clergymen write us carnestly to its wonderful effects.

which is rather level, but this overcome by staging, etc. this slide will be a valuable province, and will open up wonderful effects.

### Chips.

OPERATORS in northwestern Wisconsin are building sun-shades over sections of their logging coads to save the little "slipping" there is on them. Sometimes these road sheds are half a mile long. There is no end to the lumberman's devices for panking logs in all weather, and under all conditions.

THE Buffalo Lumber World says it is stated that there are about 3,000,000 acres of excellent pine lands in Louisians, which are beginning to attract northern attention, and Michigan parties have recently purchased 11,000 acres in Calcasieu parish, with a vi w to the manufacture of lumber. These lands are offered at \$1.25 per acre, and a lumberman who smells pine land at that figure usually may be counted on to take up the trail. These southern pin-lands will come into active domand much sooner than is generally expected, should the enormous requirements of lumber continue, and there is not much doubt on that score.

THE Chicago, Portage & Superior Railroad Company received a grant of 407,000 acres of pine land in northern Wisconsin for building its road. Sixty-four miles are already graded from Superior southward, and track laying will be soon begun. When this section of the read is completed the land grant will be fully acquired. Sixty miles of grade have been accomplished on the southern end of the line between Geneva lake and Jefferson. It is the intention to have the road completed and cars running between Chicago and Superior City, before the end of the present year. The opening of this route will develop a chain of lumber manufactorie. along its northern section, and induce speculation in the pine lands that the company will acquire by its completion.

THE Lafayette tree which stood in front of the city hall, Portland, was cut down recently by order of the Mayor. For many years the tree has been patched and painted, but the rot has now conquered it. The history of this old elm tree is interesting. The Marquis de Lafayette came to Portland on the 25th of June, 1825. A public reception was tendered to him, and was held under the branches of this tree. An awning was spread from the cornice of the old state house to this tree and another one above, which fell in the fire of 1866. Lafayette stood under this tree and shook bands with whoever saw fit to present himself. This was the only tree within the burned district of 1866 which survived the fire. It marks the eastern limit where any green thing can live.

THE Kingston Whig says that the advancement northward of the K. & P. R. is leading to the rapid development of the resources of the back country. Mr. W. O. Car ... , M.P.P., of Lanark, arrived in the city lately and conferred with the President and Superintendent of the railway, arranging freight rates for which the lumber from a new mill which he has in course of erection at the Clyde River can be shipped to the States via Kingston. The new mill will be located alongside the railway, so that every advantage can be given the shipper. The mill will have a cutting capacity of 6,000,000 feet per year, and is to be ready for operation by the 15th of April. The logs from the timber limits will be floated down the Clyde river. The amount of freight that the railway will have to carry is daily increasing.

JOHN NEWTON is about to creet a saw mill at Lachute, Que., where he has secured an eligible This section of country contains an immense unbroken forest, which only requires an outlet to make it a source of wealth to its owners, a difficulty which Messrs. Newton, Charles Vary, and others, intend to overcome by the erection of a timber slide from the mouth of Lake Louisa to Lachute. A survey, with this end in view, has been carried on for some time, and, after tracing several available lines, one has been decided on which is almost a direct line between the points mentioned, and gives a splendid descent the whole way, with the exception of a short distance before reaching Lachute. which is rather level, but this difficulty will be overcome by staging, etc. When completed this slide will be a valuable accession to the province, and will open up a new source of



Nouralgia, Sciatica, Lumbago, ackache, Sorenoss of the Chest, Gout, Quinsy, Sore Throat, Swellings and Sprains, Burns and Scalds, General Bodily

Tooth, Ear and Headache, Frostea Feet and Ears, and all other Pains and Aches.

No Preparation on earth equals St. Jacons Oils a safe, sure, simple and chemp External Remedy A trial entails but the comparative widing outlay of 50 Centis, and every one suffering with pain can have chosp and positive proof of its claims.

Directions in Eleven Languages. IK TEDICINE

A. VOGELER & CO., Ballimore, Md., U. S. A.

### PORTLAND FOUNDRY.

JOSEPH McAFEE.

Warehouse, Main St., St. John, N.B.

### AGRICULTURAL IMPLEMENTS

Cooking, Ship, Parlor & Office Stoves

Ship Windlasses, Capstans, and Ship Castings of all kinds, (MADE TO ORDER)

Power Capstans, Patent Ship Pumps With Copper Chambers.

Lead Scuppers & Water Closets & all goods in my line for Ships' use.

Work done to Order with Quick Despatch

### RWIN & BOYD

Commission Lumber Dealers. FORWARDERS, Shipping General Agents

PORT HOPE.

D. S. BRIGGS, 9 TORONTO STREET, TORONTO.

Clear, Pickings, Common and Eardwood Lumber, Lath, Shingles, &c.

BILL STUFF CUT TO ORDER.

J. K. POST & CO.

### **LUMBER MERCHANTS**

And Shipping Agents.

OSWEGO, N. Y

J. & F. N. TENNANT

Lumber. La h & Shingles.

Office, Union Loan Building, Toronto Street, Toronto.

S. S. MUTTON & Co., Wholesale Lumber Dealers TORONTO.

We have for Sale a large quantity of PINE, OAK, WHITEWOOD, ASH, CHESTNUT, CHERRY, BUT TERNUT, BASSWOOD, &c.

LATES.—A SET OF TUB MACHINERY FOR SALE, CHEAP—OR EXCHANGE FOR LUMPUR, LIM

### A. L. UNDERWOOD

WHOLESALE DEALER IN

White Pine, Basswood & Hardwood,

82 King Street East,

TORONTO, ONT.

MACK'S MAGNETIC MEDICINE



Is a Sure, Prompt and Effectual Remony for Aerona ness in All. its stages, Weak Memory, loss of Brain Power, Sexual Prostration, Night Sweate, Supermaterrhara, Seminal Weakness, and General Loss of Power it repairs Nervous Waste, Requeenate the Jaded Intellect, Strengthens the Enfetbled Brain and Restores Surprising Tone and 1 spot to the Lichaustet Generative Organs. The experience of thousands proves it an invaluant Rushin. The incellent is pleasant to the taste, and each box contains sufficient for two week's medication, and is the cheaper and best EXF full particulars in our pumplict, which we desire to main free to any audross.

Mark's Magnetic Medicine is sold by Druggists at 50 cts, per box, or 12 for \$\pi\_0\$ or will be mailed free of postage, on receipt of the ming, by addressing MACK'S MAGNETIC MEDICINE CO.

MACK'S MAGNETIC MEDICINE CO.,

Windsor, Ont., Canada Sold by all Druggists in Canada,

### THE KEY TO HEALTH. BURDOCK BLOOD

Unlocks all the clogged avenues of the Bowels, Kidneys and Liver, carrying on gradually without weakening the system, all the impurities and foul humors of the secretions; at the Same time Correcting Acidity of the Stomach, caring Biliousness, Dyspepsia. Headaches, Dizziness, Heartburn, Constipation, Dryness of the Skin, Dropsy, Dimness of Vision, Jaundice, Salt Rheum, Eryspelas, Scrofula, Fluttering of the Heart, Nervousness and General Debility; all these and many other simi-Debility; all these and many other similar Complaints yield to the happy influence of BURDOOK BLOOD BITTERS.

Sample Bottles 10c; Regular size \$1.

For sale by all dealers.

T, MILBURN & CO., Proprietors, Toronto

### Market Acports.

#### TORONTO.

JAN. 10th.-In consequence of this being the holiday season, there is not much doing in the way of lumber sales, but the open weather has had the effect of causing large numbers of new buildings to be started, and there being so little frost in the ground, foundations can be laid and cellars taken out with small labor, compared with that of lastseason, and builders seem determined to take advantage of our present mild spell. Bill stuff by car load still tends upward, and the retailers begin to realize the fact that they will have to advance prices from their yards. It is strange that they could not have been satisfied upon this point long before this, and doubtless most of them will wonder now, as they begin to replenish their stocks at the advance demanded by mill men, that they could have been so blind ve to deplete their stocks and hug the old figures, while the wholesale men were advancing rates from week to week, but it is the old story over again,-want of unity, and therefore common consent to advance prices on the part of the entiro trade.

The auestion is now being mooted by the retailers as to the advisability of calling a meeting of the middlemen (to comprise all those who sell by car load on this market), and try to induce them to demand yard prices for car load lots. This is intended, of course, to throw the entire trade of consumers into the hands of the yard men; but now comes the question, What is the sop to be given the car load men in return. In the first place it is manifest that the retailers must bind themselves to purchase only from those who sell by carload here, and that would only be a small part of the compensation needed to recoup the wholesale dealer, as it is questionable if retailers could do any better by going up to the mills to purchase, especially if they count their time and travelling expenses. Then how will the retail men like to compensate the wholesaler for the difference in price obtained from the consumer, over that charged to the retailer. which would be from fifty cents on the lower grades, to two dollars per M. on the better class of lumber. I fear that the difficulties in the way of any such arrangements being come to are insuperable, and much the better plan would be for the retailers to combine with a will and determination to improve many matters in connection with their trade, which are immediately under their own cantrol.

Since the new year came in I have been endeavoring to ascertain the amount of lumber consumed in this city during the year 1881, and I find it extremely difficult to determine the quantity with any degree of certainty. It is comparatively an easy matter to give you he quantity brought here and intended for local consumption, but not so accurately can I determine the quantity transhipped to points east and west: however, after due consideration, I am led to the conclusion that upwards of 55,-000,000 feet has been consumed in this city and the adjoining municipalities of Parkdale and Yorkville. In coming to this conclusion I estimate that the various yards throughout the city closed up the year with about the same stocks on hand as held by them at the beginning of the year, and in this surmise I think I am not far wrong, although the stock of joisting and scantling now on hand is much lighter than has been held here for some years past; but the deficiency in that respect is doubtless made up by other kinds of lumber.

Prices for car load lots of joisting and scantling up to 16 ft. lengths are fully \$1 per M. better than obtained during the months of September and October, and the fact is, dimension atuif can scarcely be obtained at all, and I ques tion if there is a single car lead on track here to

Cherry and other hardwoods have arrived more freely of late, but not sufficient to glut the market in any zense. Black ash obtains ready sale if the quality is good. This wood has been rapidly coming into favor as a finishing wood, whereas, a few years ago, it was only esteemed

good white ash for \$20 to \$25, the latter figure if suitable for carriage work. In fact all kinds of lumber, hard or soft, if quality and manufacture are right, will command ready sale at fair figures. QUOTATIONS, FROM YARDS.

		7.					•		
MIL	i can p	oarus	and ace	intling				#10	w
8hl)	pping (	ત્યાં મિ	and ace	romiec	TORS A	ridthe.	• • • • • •	. 12	00
	41	41/	wka					. 13	വര
Sout	ntline	and fo	olet, up	to 16 ft				. 13	00
				18 ft				13	60
i	44	**	"						
	4.	44	44			•••••			
	44	44	44						00
		"	- 14			• • • • •			
_	•••					• • • • •			
Bowl	i Printing I	and jo	olst, up t	o 28 ft			• • •		50
	**	41 -	4			· · · · · ·			
	••	••	••						
	44	"	44	34 ft				22	60
	44	44	**	36 ft			<b></b>	25	00
		**		99 ft		• • • • • •		30	00
	**	**	**	40 to	44 11	•••••		94	m
Cutt	ing ur	nlen'	,, ks to dr	, ** ~	20	•	•	20	m
0444	THE WE	, F	ds ""	,	• • • • •	• • • • • •	• • • • • •		
C		DUME	us	• • • • • •	•••••	•••••	• • • • •	10	*
Dial	ia arei	ming	stocks	• • • •		•	•	10	<b>w</b>
LICK	a vin.	insho	ction		••	• • • • • •	• • • • •	20	w
Thre	e upp	crs, A	m. insp	oction.		• • • • • •	• • • • •	35	ᅇ
				в. м.					
11.6	oh da	·	dreseed	D				20	~
: "	1611 1100	iink,	ateresa.	•••••	• • • • • •	• • • • •	•••••	**	×
:7	44	::	rough.						
13	···	**	dressod						
14			undres						
1 '	••	**	dressed						
	••	".	undres	юd.,,,				15	00
1 Be	adod S	heetl	ng, dres	ed				20	00
Clan	boardi	ue. d	ng, dres ressed					12	50
XX	CRAWN	shin	vies 22 1	ď			2.80	āi3	õõ
TY	DE OFFI	hingi	gles, 💜 1		•••••	• • • • • •	- 00	٠.,	-;
~	1.4			• • • • • •	•••••	• • • •	• • • •	•	έō
	n twent	•••••	• • • • • • •	• • • • • •	• • • • • •	•••••	• • • • •	1	00
			-		_			_	_

#### LATER.

JAN. 24.-The present frosty spell has had the effect of slackening the demand for lumber on our local market, and the planing mills are also quiet, and in this connection I would remark that the excellent buildings and perfect machinery in use for sash and door factories in this city are far ahead of any other city in the Dominion, and in a future letter I will endeavor to give you'a full description of the wood working machinery, and the different firms engaged in that branch of industry hero. Referring to my last letter, and to the amount of lumber said to have been sold in this city during the season of 1881, I would say that probably 100,-000 feet of that amount has been sold to far-There is now considerable trade done with farmers living from 5 to 20 miles from the city, as nearly all the small mills that once existed in the rural sections within that distance aronow silent for want of the material once so plentiful.

Prices for all short bill stuff from the yards are now firm at \$13 per M., but as the prospect for a fair supply of logs is now good, it is doubtful if prices now demanded for ... mmon lumber will hold longer than the spring.

The resolution formed by some of the retail men to force the middlemen into a position more favourable to the retailer, and to which I alluded in my last letter, seems to have fallen through, if indeed it was ever seriously entertained; and as the middlemen hold nearly all the dry stuff there is for sale here, they hold the key to the position, and it would be useless to attempt to force them into any position at all distasteful to them, so that we have likely heard about the last of the matter. All the yards hold light stocks, with no surplus of any kind so far as I have been able to judge, and there is no prospect of any large quantity of any particular kind of lumber being forced upon the market this winter, and wholesale men are firm in their prices for all kinds of stock held by them.

### OTTAWA.

From Our Own Correspondent.

JAN. 10th.-Lumbermen in the Ottawa Valley, as well as the general community, has great reason to complain of the unbroken weather which has almost continually prevailed during what should have been winter months, but a recent arctic wave has somewhat revived their drooping spirits. Since sleighing has set in the past few days hundreds of men and teams are flocking to the woods. Agents have been eagerly at work looking in all directions for hands, and the supply is said to be far from equal to the demand. This week may virtually be called the opening of the season's operations, for, up to the present, work in the woods has been carried on upon a rather small scale only. However, the actual number of men now engaged in taking out timber on the Upper Ottawa limits is said to be larger than at any time last year. This

prospects entertained for next sesson's demand. which promises to be unprecedented in the timber history of this locality.

ON THE UPPER OTTAWA.

Snow has fallen in sufficient quantities to facilitate the taking out of logs, but not on a scale desirable. The principal firms here operating are Allan Grant (Scotch Canadian Lumbering Co.), Gilmour & Co., Oliver Latour, David Moore, Sherman, Lord & Hurdman, Bryson, Edwards & Co., Booth & Gordon, and J. & M. Grier. On the Temiscamingue Lake those actively operating are R. Ryan, Bell & Hickey, W. B. Latour, Allan Grant, and Frasor & Screeney. The foregoing firms will only engage in taking out logs.

ESTIMATE OF THE CUT OF 1881-2.

The following is a pretty correct estimate of the quantity of timber that will be manufactured this season on the limits of the firms mentioned :-

	White	Board
	Pine ft.	Timber, ft.
J. & G. Bryson		20,000
J R Booth .	300.000	100,000
R. & W. Conroy	175,000	40,000
Oliver Latour		60,000
Wm Mackey	200,000	
Pavid Moore	\$80,000	40,000
Richard Naglo		66,000

If no serious : stacles are encountered, such as the low water of last summer, in bringing the loas to the mills, everything indicates a busy time next season at the Chaudiere, and at other taills in the surrounding vicinity.

ON THE GATINEAU.

Operations are here carried on as usual in other seasons. Logs taken out on this river generally reach their destination in the spring, the drive not being as long as on the Ottawa The following firms have limits on the Gatineau, and the estimate of what they will manufacture this season is subjoined:

	Legs.	Timber.	Spars.
McLaren & Co	. 23,467	1.671	750
Cilmour & Co	. 30.013	1,253	35
Edwards & Co		4,125	9
Hamilton Bros		7,721	-
Hall & Co		1,319	
			Ξ.
	415,435	15,069	794

CHIPS. A bost is being built at present by a company that will be used for towing and moving freight in Kippowa Lake.

A new mill is being built on the C. P. R. vest of Pembroke, by Mr. James Findlay.

A. & P. White are also building a saw mill on their limit at Doux Rivieres, on the C. P. R.

In a log shanty on the Keepawa three mer recently cut in one day 230 logs, one-half of that number being 16½ feet long, and averaging 16½ inches. In the same shanty three square timber makers made in one day seventeen pieces. This is hard to beat.

Messrs. Walker & Mills, who purchased White's mill at Pombroke, will make things boom next summer. The gangs at the shanties of the firm on Indian and Chalk rivers have so far this winter put 30,000 logs on the roll-ways.

### LATER.

JAN. 23rd.-All commercial industries generally have a quiet spell at a certain time of the year, and as regards the headquarters of the lumber trade of the Ottawa Valley, that Iuli prevails at present. The many concerns centerod here have their shanties on the Upper Ottawa in full blast, operations being carried on to the fullest extent. All the hands required, or, at least, as many as could be engaged, have been despatched to the woods, and nothing now remains but to anxiously await the breaking up of the shanties in the spring, and the sending up of men for to engage in

### THE DRIVES.

Fears previously entertained of an insufficiency of snow for the successful carrying on of operations have now been dispelled, there being an ample supply of "the beautiful" to facilitate operations. Although there was an unusually late beginning this winter of shanty work, a prominent lumberman informs your correspondont that the cut which will be taken out from the present till the end of the season will be as large, if not larger on the whole, than for a number of years back. More sanguine hopes are entertained that the logs and square timber that will be taken out, and also that which was stuck last season in the streams, owing to the of value for barrel hoogs and fence rails. It is accounted for by the increased number of log extreme low water, will all be safely brought to will now sell readily for \$14 to \$16 per M., and jobbers operating this year, and also the good their destination, as a result of the great and

VALUABLE IMPROVEMENTS that are being made this winter by the Upper Ottawa Improvement Co., and also by private individuals. As an evidence of the prosperous condition of the trade, but more especially of the hopes entertained, may be be mentioned the boat building operations that are at present being carried on. Seales & Murphy, of Pembroke, owners of the steamers O'Kelly, Baldwin, Pembroke and Sir John Young, are building four team tugs for towing purposes next sum-· ween Portage du Fort aud the Chate Lake. The Square Timber Co. are also constructing a new steam tug on the Tomiscain

ingue. New tugs are also being built for the Upper Ottawa Boom Co. and Mr. O. Latour. The latter will ply on the Kippewa.

QUOTATIONS

remain firm, and few sales are reported. Stocks are getting low, consequent upon the steady railway shipment to the States, for the fulfillment of orders alread reontracted for. A number of the largest lumbermen hore, and in fact all, are taking considerable interest in the proposed Canada Atlantic R. R., which will, when constructed, be of great value to the trade of the Ottawa Valley, affording better facilities for shipment to the States. Mr. G. W. Perley, of the firm of Perley & Pattee, is one of the principal stockholders, and being an active and enterprising gentleman, his interesting himself in the scheme carries with it a guarantee of the early completion of the road.

### BAW MILL IMPROVEMENTS

this winter are being carried on upon a much larger scale than in former seasons, in some instances extensive and costly improvements are being made. It is the intention of a number of establishments to adopt the electric light next season, as it was such a signal success with those who tried it the past summer.

#### SAWDUST.

Four men in one of J. R. Booth's shanties on the Opeongo river made in one day recently 306 saw logs, averaging 16 inches. This is big

Lumbermen fear a scarcity of men next sea

### MONTREAL.

From Our Oun Correspondent.

Jan. 24th.—Since the date of our last repor the only subject of interest to the trade which has taken place is the suspension of the well known firm in the lumber trade here, Messra. McGauvran & Tucker. The cause of the stoppage is said to be the want of floating capital, so much of the money belonging to the firm being locked up in real estate, said to be worth about \$160,000. Liabilities about \$217,000, but very little of this is said to be due for lumber. This firm failed and made a compromise with their creditors about two years ago. We have not yet been able to learn whether they will resume operations again or not.

The violent storms with snow which we have had lately have caused the demand for lumber to be very slack. It is rather early yet for Americans to come round to see what can be picked up, but there has been a few, and now that sleighing is good, a large number is looked for in the course of 10 days or so. Lumber operations in this region are progressing favorably, with plenty of snow to get it drawn out. It is fully expected that prices of all kinds of lumber will shortly be advanced, and to-day we note an advance in the price of lath, but in the meantime our other figures are unchanged.

Pine, 1st quality, W M	832	00/5/40	00
Pine, 2nd " * M	18	00a24	00
Pine, shipping culls, W M	12	00x115	W
Pine, cull deals, WM	8	002012	60
Pine, mill culls, * M	5	00srt 8	
Spruce, * M	8	002210	
Hemlock, W M		002210	õ
Ash, run of long culls out. > M	16	00wt18	Ö
Ash, run of long culls out, NM	14	000216	œ
Ouk, * M	35	00:445	Ó
Birch, ♥ M			
Hard Maple, W M			
Lath, > M.			
Shingles, 1st, WM			
Shineles 2nd. W.M.		0022 0	

CORDWOOD.-Trade has been very slack until the last few days, when a good demand has sprung up, which the present very severe cold weather will help to develop. There is not much green wood coming in to the depot, dry wood, however, is arriving in fair quantities. We have no change to make in our quotations,

#### LONDON, ONT.

### From Our Own Correspondent.

JAN. 25. Your last issue of Jan. 16th did not contain a letter from me in consequence of my absence in Montreal. Since mine dated Dec. 22nd, a marked change has taken place in the lumber market here. Some time ago the merchants held a meeting to consider the advisability of advancing prices as a necessary result of scarcity and diminishing stocks, with little prospects of replenishing, and the result of this meeting was that prices were advanced about one dollar all round. Business cannot by any means be called brisk, in fact a quiet feeling provails, but notwithstanding all this, prices are maintained firm. All stocks from the base of supplies are getting very low. Samia market has been higher for a considerable time, and Goderich has also advanced; both of these places are supply markets for much of the lumber coming here.

The lumber contract for the new wholesale block has been let to Messrs. Green, and building is proceeding.

Unless we have a good, long spell of cold weather, and an abundance of snow, such as we now have, prices are not likely to show any de-

I intended giving you a data of our lumber market for the past year in this letter, but will have to defer it, and if possible give it in my

The prices ruling at present are:-

# QUOTATIONS. Mill cull boards and scantling \$11 00 Shipping cull boards, promiscuous widths. 12 00 ... 10 and 12 in. stocks. 12 50 Common boards, promiscuous widths. 14 00 Scantling and joist, up to 16 ft. 15 00 ... 18 ft. 15 50 ... 20 ft. 16 50 ... 22 ft. 17 50 ... 22 ft. 17 50 ... 24 ft. 19 00 Common stocks 15 00 Common 2 in. plank 16 00 cutting up plank and boards 19 06 Cutting up plank and boards 18 00 Cutting up plank and boards 18 00 Cuttan and picks 28 00 Three uppers, Am. Inspection 35 00 Inch dressed and matched flooring 21 00 ... 21 00 XXX sawn shingles, \$M\$ 300 Lethers 1000 feet 55565 00 QUOTATIONS.

### BRACEBRIDGE.

From our own Correspondent.

BRACEBRIDGE, Jan. 19th, 1882.-Since my last things have changed some; we have now about six inches of snow with plenty of frost, and the hauling could not be much better. Every one is rushing in teams, and no doubt there will be a large quantity of logs and timber hauled this month. Teams have been very scarce and wages high, \$1.75 to \$2.00 per day. and the demand is not more than half satisfied yet; but they are coming in new. David Moore, from Walkerton, went in this week to commence operations in the township of Mc-Konkey, on French River, on one of the berths sold at the recent sale. He will build a mill at the mouth of the French River in the spring. I believe that he is the only operator so far in that portion of the recent sale. I noticed an article in your last by Mr. Little. He is evidently writing about what he knows nothing. There is no fear of the lumber supply being exhausted in twenty years, nor in forty. He says that the Government three years ago sold 34 townships, the last they possessed. How does it come that last December they again sold 18 townships, and they have plenty to sell yet? The north shores of lakes Huron and Superior have been very little worked yet, and it is principally a pine country, except where the fires have destroyed it. There is no use trying to mislead; we have plenty of timber.

### ST. JOHN, N. B.

From Our Own Correspondent.

making up a lumber report at a shipping port demand in the spring.

but the probabilities are that lower prices will in the latter part of January. Thomast notice able circumstance we have to report at the present time is that we have had several snow falls recently, which were greatly needed. The snow being now of moderate depth, and having fallen very evenly, the facilities for teaming in all directions are all that can be desired, causing a very agreeable change in the movements of all winter occupations.

### OUR HARBOR.

Doubtless some of the resslers of the LUMBER-MAN are not aware that the harbor of St. John is never obstructed by see in the least degree, which is more than can be said of any other harbor on the Atlantic coast, from Baltimore to the North Pole, -we do not say "both inclusive," as our knowledge of the latter place is rather too limited to enable us to speak authoritatively so far as it is concerned,—the open water extending some two miles up the river. This circumstance is a very important one as bearing upon the question of a winter port, now being agitated throughout the Dominion.

Another very important peculiarity of our harbor is the great rise and fall of tide (between twenty and thirty feet), which could be exten sively utilized in the shipment of grain cargoes, dispensing with elevators, if not altogether, at least with any such structures at all approaching the magnitude of those required in other places.

We would carnestly press these features of our harbor upon the consideration of the Gov ernment, the C. P. R. Company,-of all people in Canada, indeed,-in discussing the subject of a Canadian winter port, in connection with the trade of our great North West, which is now a burning question. Any manifestation on the part of the "nowers that be" in favor of a foreign port in this connection would cause a commotion in these Maritime Provinces not easily allayed.

#### PREIGHTS.

The freight market is easier, the latest transaction being at 60s. for Dublin, or a port on the west coast of England. Very few transactions in deal charters may be looked for during the next two months.

SHIPMENTS. The shipments of deals and other sawn lumber

ITO SEE TOTTO AB "		
or Europe	2,293,000	Sup. feet.
" Africa	1.188,000	• • •
46 Australia		**
" United States	1,353,000	41
" West Indies	579,000	••
The number of sugar box sl	iooks shi	pped for

Cuba is as follows :--

### SHIPPING.

The following is a list of the vessels in port, with their tonnage and destinations:-

Etta Stewart, 787, Liverpool. Scuvenir, 828, Livernool.

Gettysburg, 1,015, Adelaide, for onlers. Templar, 778, Liverpool, Barrow or Bristol Channel.

Torryburn, 447, Jamaica.

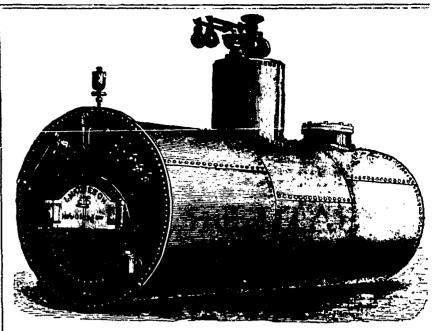
Memory, 409, Spain.

Athlow, 539, Bristol Channel.

Themis, 975, Liverpool, Barrow, Bristol Channel or Dublin.

### BOSTON.

JAN. 21 .- The Journal of Commerce says the market is still a very good one, and remarkably so for this time of year. Holders of stock are masters of the situation and name their own prices in every case. Arrivals are now beginning to be less frequent, and stocks (especially of the finer grades) are getting pretty low in most of the yards. Dealers at productive points are refusing future contracts, except at advanced rates. At the west there is quite a scarcity of dimension stock in flooring strips. In Chicago it is not an uncommon occurrence for sales of 100,000 feet in one lot to be made at regular list prices. The general opinion seems to be that the price of lumber will materially advance by the coming of spring, if not before. It is a well known fact that the supply to draw from has never been lower than at present, and that the amount of stock on hand in most of the yards is small. When these facts are considered it is plain that they point pretty strongly to higher prices, and dealers are making money if Jan. 21.—From the very nature of things they hold on to their lumber. Hardwoods are we cannot expect to have much to record in as firm as ever, with indications of an improved



CANADA PINE. 

#### ALBANY.

JAN. 20. -Quotations at the yards are as follows:—

Pine, clear, 2 M 453 00263	<b>30</b> ]
Pine, fourths 48 00@58	00 I
Pine, selects 43 00(a53)	
Pine, good box 19 00(t31)	
Pine, 10-in, plank, each	
Pine, 10-in. plank, culls, cach 00 19600 :	
Pine boards, 10-in	
Pinc. 10-in, boards, culls	
Pine, 10-in. boards, 16 ft., \$ M 25 00@30	
Pine, 12-in. boards, 16 ft	
Pine, 12-in, boards, 13ft	
Pine, 11 in. siding, select 33 00@40	
Pine, 14-in. siding, common 15 00@18	
Pine, 1-in. siding, select 40 00(t42)	
Pine, inch siding, common 16 00(e19	
Spruce, boards, each	
Spruce, plank, 11-in., each 00 00	
Spruce, plank, 2-in., each 00 00@00	
Spruce, wall strips, cach	
Hemlock, boards, each	
Hemlock, joist, 4x0, each 00 000000	
Hemlock, joist, 21x4, each	
Hemlock, wall strips, 2x4, each 00 00000	
Ath, good, \$1 M 35 00/410	
Ash, second quality, \$31	
Cherry, good, \$1 M	
Cherry, common, 3 M 25 00(x35)	
Oak, good, \$131	
Oak, second quality, # M 20 00/125	
Basewood, W.M	
Hickory, 2 M 36 C 20140	
Manle, Canada, W.M	
Maple, American, per M	
Chestnut, 2 M 35 00:140	
Shingles, shaved, pine, ≥ M 0 00v2 6	
" extra, sawed, pine 0 170¢9 4	
" clear. " 0 00 3	
" colar, inixed 0 0000 3	
" cedar, XXX 0 0039 4	
hemlock U UO47 2	
Lath, hemlock, 23 M	
Lath, spruce, " 0 0000 1	
Lath, pine, " 0 00@ 2	00 I

### CHICAGO.

JAN. 18 .- The stiffening of the weather, and the resulting improvement of the reads in the country, has had an effect on trade, and a considerable increase in orders and movement of lumber is noticeable, the shipments for the last week exceeding those of the preceding one by about 1,000,000. This may be taken as an indication of a coming improvement of considerable proportions, if the weather continues favorable. The facts that generally stocks in country yards are low, and that country dealers report a very satisfactory trade for the time of year, go to encourage wholesale holders of lumber to hope that February will be a good month for busi-

The feeling in regard to prices was never stronger. Holders of lumber are not forcing sales, but are content to let trade take its course. The prevailing opinion is that lumber is making

a profit as it lies in the pile, and it is sufficient to sell it when it is called for, without using any urgency.

Receipts and shipments of lumber and shingles for the week ending January 19, 1882:

EBCRIPTS.

Lunder. Shingles. Lumber. Shingles.
1882...3,058,000 1,630,000 18,634,000 7,010,000
1881...4,962,000 1,405,000 13,371,000 7,512,000 Receipts and shipments of lumber and shingles from January 1 to January 19, 1882,

Inclusivo: — Shirples Shirples Shirples Shingles Lumber. Shingles Lumber. Shingles 1882....10,440,000 3,615,000 40,378,000 20,815,000 1881....10,333,000 3,470,000 36,274,000 20,292,000

The receipts for the season also embraced 104,499,000 lath, 2,846,340 codar posts, 3,205,560 railroad ties, 33,055 cords of wood, 22,549 cords of slabs, 29,702 cords of tau bark, 86,993 telegrapu poles, and 25,118 piles.

| STORE ON HAND JANUARY I. | 1890. | 1881. | 1890. | 1881. | 1890. | 1881. | 1890. | 1881. | 1890. | 1881. | 1890. | 1881. | 1890. | 1887. | 1888. | 1890. | 1887. | 1888. | 1890. | 1887. | 1888. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1889. | 1

### BUFFALO.

We quote cargo lots:-

### TOXAWANDA.

CARGO LOTS-BAGINAW INSPECTION. 

# LEATHER BELTING.

Chipman, Renaud & Co.

LEATHER BELTING, FIRE ENGINE HOSE LACE LEATHER, &c.

124 & 126 Queen St. MONTREAL

### ROBERT W. LOWE,

AUCTIONEER AND COMMISSION MERCHANT

81 SANDS BUILDING, PRINCE WILLIAM STREET.

Cash advanced on Goods put in for sale. ZNO Storage charged. All kinds of Merchandise Bought and Sold. New and Second-hand Furniture always on hand. Agent for Hazelburst & Co's WINTHROP COOKING RANGES, WATERLOO WOOD STOVES, FRANKLIN, &c., &c., &c.

SAINT JOHN, NEW BRUNSWICK.



# Wrought Iron Shanty Cook Stoves

The Best Article ever offered to the Trade.

I have ruch pleasure in drawing attention to my WROUGHT IRON COOKING STOVE for Shanty, Hotel and Boarding House use. These Stoves 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 '0-inch holes, with ample room between, and one oven  $16 \times 21 \times 26$ .

### DOUBLE OVEN STOVE

The Double Oven has a top surface containing twelve 10-inch pot holes, with two ovens, each 16 x 21 x 26. One fre-box of sulfable size for area to be heated. Below will be found Textimonfals from some of the leading Lumbermon, who have used my Wrought Iron Cook Stoves since I commenced manufacturing them. They are the names of gentlemen who are well known and reliable, and will carry more weight than any recommendation of my own could do.

### The Best Stove I have ever Used.

Abam Hall, Esq., Peterborough. Dear Sir.—I have used your Wrought Iron Cooking Stove in our lumbering operations since its introduction here, and have no hesitation in saying that I prefer it to any other. For durability, comeny 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, boarding houses and implement.

Yours truly, Tilos. GEO. HAZLITT.

### The Stove for Lumbermen, Princeporous, June 1st, 1880.

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

### Given the Greatest Satisfaction.

PETERBOLOUGH, June 3rd, 1880.

A. Hatt, Pelerborough. Dear Sir, -I have had the Wrought Iron Cook Stove, purchased from you, in constant use ever since last fall, and it gives the greatest satisfaction in every reject. I can recommend then highly to any one who is in the lumber business.

Very truly yours, GEO. HILLIARD, M.P.

### EVERY STOVE GUARANTEED

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

## ADAM HALL, Peterborough.

### SUPPLIES

Extra Stretched and Patent Smooth Surface

RUBBER BELTING—in Stock, 2, 3, 4, 5, and 6 Plies. HOYT'S CELEBRATED LEATHER BELTING.

COTTON BELTING, for Flour Mills. &c., Superior Quality.

### DISSTON'S CELEBRATED MILL SAWS.

Steam Packing of all kinds, Rubber and Linen Hose, Silk Bolting Cloth, Emery Whoels, Lacing Leather (Pago's Genuine), Lard, Séal, Cylinder, Spindle, West Virginia and Wool Oils. Our Stock includes Mill Supplies and Rubber Goods of all kinds. Quotations furnished for any part of Canada.

ESTEY, ALLWOOD & CO., SAINT JOHN, NEW BRUNSWICK.

## 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.

SEND FOR CIRCULAR

ESTABLISHED 1820.

### EAGLE FOUNDRY

### GEORGE BRUSH

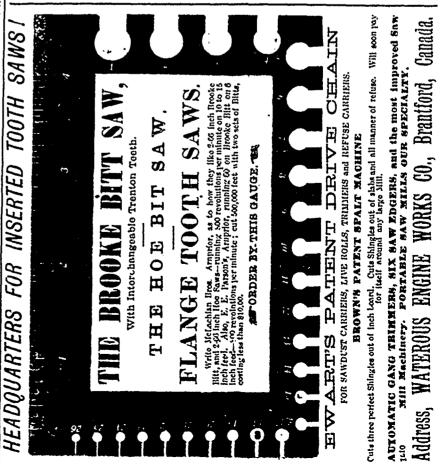
14 to 34 King and Queen Streets, MONTREAL.

Steam Engines, Steam Boilers, Hoisting Engines, Steam Pumps, CIRCULAR SAW MILIS, BARK MILIS, SHINGLE MILIS.

Ore Crushers, Mill Gearing, Shafting, Hangers and Pullies, Hand and Power Hoists for Warehouses, &c., &c.,

AND AGENT FOR

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



### D. McLACHLAN & SONS,

Manufacturers of all Descriptions of

### STEAM BOILERS.

SHIPS' WATER-TARKS. Repairing Punctually Attended to.

NORTH SLIP, ST. JOHN, NEW BRUNSWICK.

### ABRAMS & KERR

Steam Engines, Mill Gearing, Rotary Mills, Shafting, Planers, Hangers, Pulleys, Variety Moulders.

### SPECIAL MACHINERY MADE TO ORDER

Latest Improved Spool and Bobbin Machinery. Every Variety of Heavy and Light Casting.

Foundry and Machine Shop on City Road,

ST. JOHN, NEW BRUNSWICK

ESTABLISHED 1874.



ESTABLISHED 1874.

### Norman's Electro Curative Appliances

RELIEVE AND CURE

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

Ask for Norman's Electric Belts and you will be safe against imposition, for they will do their work well and are cheap at any price.

A. NORMAN, Esq.,
Dear Sir,—Please send me a waist belt.
Dear Sir,—Please send me a waist belt.
Enclosed find price.
Yours truly,
WATERVILLE, N. B.
Waterville, N. B.
C. L. TILLEY.

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

A. NORMAN, 4, Queen Street East, Toronto.

N.B.—Trusses for Rupture, best in America, and Electric Batteries always on hand at reasonable prices.

# OAK HAL

Nos. 115, 117, 119, 121, King St. East, Toronto.

We are the most Extensive CLOTHIERS in Canada.

We carry a STOCK of FIFTY THOUSAND DOLLARS to choose from. We watch the interest of our Customers. Our stock is FULL of the

very best goods in Scotch, English and Canadian Tweeds.

We BUY and SELL for Cash, therefore it enables us to do business on very SMALL PROFITS.

### NOTE. THE PRICES.

We give a Good Tweed Suit for .........\$6 00 We give a Good Tweed Pants for...... 1 50 We give a Good Overalls for ...... 0 35

### LUMBERMEN!

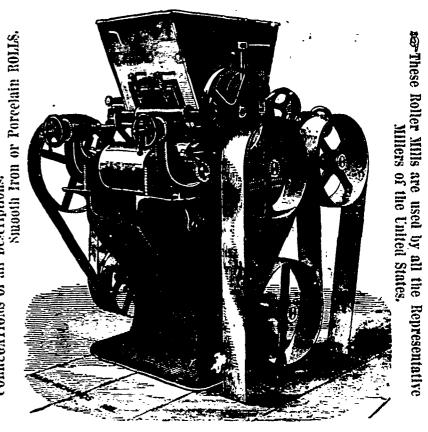
When you visit Toronto, come direct to OAK HALL, and fit yourselves out with a Good Suit. Remember the address:—OAK HALL, the Great One Price Cielling House. Toronto, opposite St. Jame's Cathedral,

# Flour Making by the New Process

GRAY'S PATENT

# NOISELESS ROLLER MILL

A Model of Perfection! Every Mill a Success!



The Machine is Perfect in all its adjustments, and RUNS WITHOUT NOISE.

It is doing Better Work than any other Machine in use. Automatic Lubrication of Principal Bearings. Driven entirely by BELTS.

Differential Speed always insured.

### WEYMAN'S NEW IMPROVED PATENT

# orcelain

The BEST ROLL FOR MIDDLINGS in the world. Over 6000 in use in this country and Europe. Send for particulars.

### MILLER BROS. & MITCHELL.

Nos. 110, 112, 114 and 116 KING STREET

### MONTREAL.

### SOLE LICENSEES FOR DOMINION.

Manufacturers of Improved Hoisting Machinery, MINING and CONTRACTORS' PLANT. Importers of BEST STEEL WIRE ROPE. Montion this Paper.

### DAM McK

## Steam Engines and Boilers,

Locomotives, Stationery and Marine Engines and Boilers, Girders, Heaters, Radia tors, and all kinds of Steam and Brass Fittings and Sheet Iron Work; and dealer in all classes of Railway, Steamboat and MILL SUPPLIES.

144 Upper Water Street, HALIFAX, N.S.

### **Drake Brothers**'

Provost Street Extension, New Glasgow, Pictou County, N. S.

### SPRUCE, PINE # HEMLOCK SHINGLES

### f A. LEARMONTH & Co.

ENGINEERS AND FOUNDERS.

MANUFACTURER OF

Steam Engines, Rotary Pumps, of all sizes, for Paper and Pulp Mills, Steam Pumps, and a Variety of other Pumps, Propeller Engines for Yachts & Tow Boats.

Iron Railings, Hoisting Machines for Stores, Jack Screws, Park Mills, all kinds of Machinery for Mines, Saw Mills, Flour Mills.

St. Paul St.,

QUEBEC.

### $H_1H_1\otimes_2H_2$

SOLE PROPRIETORS OF THE

FAMOUS INTERNATIONAL

### BOILER FLUID COMPOUND

Patented 5th March, 1877.

This Compound will save its Cost many times in one year by saving fuel. It eradicates scale, and when the Boiler is once. Clean a very small quantity keeps it Clean and Free from all Incrustation.

It is perfectly harmless to Iron, and emits a clear pure Steam. In ordering, mention the Carada Lumberman.

504 St. Paul Street, MONTREAL.

Square Piano and Diploma

Diploma & Medal 8 돌돌돌

### STEAM SAW MILL OWNERS

Have your Boilers thoroughly Inspected and Insured against Explosion by

### The Canadian Steam Users' Insurance Association

HEAD OFFICE, 9 VICTORIA STREET, TORONTO.

SIR ALEX, CAMPBELL, President. HON, JNO, McMURRICH, Vice-Pres. GEORGE C. ROBB, Chief Engineer. A. F. JONES, Secr tary-Treasurer. 1-13



### To MILLMEN!

HODGSON'S atent Saw Grinder

saws of every description. Wheel is moved along the length, and in the depth of the tooth, and can be placed just were wanted as easily as a file. It is just Tile Tiling for mills, cutting from one to five million feet of lumber, and costs no more than one-fourth to one-tenth the price of little better machines. It is patented in United States and Canada, and is made in Weisport, Pennsylvania, and in Amherst, Nova Scotia.

### Hodgson's Patent Monitor Shingle Machine

combines, at a moderate price, more points of excellence than any other. Jointer is built in machine, a few inches from the saw. The cast steel feed rolls are opened by a feed lever, and grip the block like a vice. Traverse of carriage to suit large or small stock, is under control of operator when running. Will run for days without cutting a shim. Warranted to cut, with one attendant, three thousand in an hour, under forfeiture of 8100. Send for circulars to

T. HODGSON, AMHERST, NOVA SCOTIA.



### J. F. LAWTON Alexandria Saw Works

SAINT JOHN, N.B.

Saws, of all kinds manufactured from the BEST CAST STEEL that can be procured in any Market.

### EVERY SAW WARRANTED.

SAWS REPAIRED in the best manner and on Short Notice.

Send Address for Price List, Terms, &c. J. F. LAWTON.

### GOLDEN



No Shoddy Cloths used. All Goods Manufactured on the Premises. EVERY GARMENT WARRANTED.

Men's Flannel Shirts and Durable Underclothing.

ORDERS SENT WITH MONEY PROMPTLY ATTENDED TO.

WALKER & SONS, 33-37, King & Colborne Sts., Toronto

# HART EMERY WHEEL COMPANY, Limited

HAMILTON, CANADA.

GILBERT HART, Detroit,
President.

JAMES T. BARNARD, Hamilton,
Secretary-Treasurer.

SAMUEL BRIGGS, Hamilton, Superintendent.

MANUFACTURERS OF THE CELEBRATED

# EMERY and CORUNDUM WHEELS

These Wheels are
Wire Strengthened



And Specially Adapted For Saw Gumming

Neither Animal nor Vegetable Glue or Gum being used in their composition, they are NOT LIABLE

TO HEAT, and give out no Odors, while

They Surpass All Other Wheels for Free Cutting and Durability.

We refer to the following well known Saw Manufacturers for Opinions as to the Quality of our Wheels:

Messrs. SHURLEY & DIETRICH, GALT.

Messrs. R. H. SMITH & CO., ST. CATHERINES. JAMES ROBERTSON, ESQ., MONTREAL.

Messrs. JAMES ROBERTSON & CO., TORONTO.

WE ALSO REFER TO

WILLIAM HAMILTON, ESQ,

PETERBOROUGH,

Manufacturer of the Covell Saw Sharpeners.

Messrs. H. B. RATHBUN & SON,
DESERONTO,
Lumber Merchants,

Ith

### EMERY WHEELS F SAW GUMMING!



Solid Emery Wheels are now almost in universal use for the purpose of guiletting and gumining saws. Statistics show from 25,000 to 35,000 saw-mills in the Uniced States. Many of these run only a single saw each. A one-saw mill would use one or two wheels a year, costing St to \$1 each, and when such small mills order single. Emery Wheels from the factory, the express charges often equal the cost of the wheel. There was a time when the quality of Emery Wheels was so uncertain, and the demand so fickie, that storckeepers could not afford to carry them in stock. Now, however, Saw Gumming Wheels have become as stople an article as Files, and every dealer in saws, Hardwere and Mill Supplies can afford to carry a few dozen standard sizes in stock, Large dealers order stocks of \$500 to \$750 worth at a time. Saw Gumming Wheels are used with the edge (or face) square, round or boveled. Probably seven-eights of all in use are beveled.

Probably more wheels 12x4, 12x4 and 12x4 are used than all the other sizes together. Saw Gumming Wheels are used, however, of all sizes up to 21x14. The most frequent complaint is that Emery Wheels harden the saw so that a file won't touch it The answer is that you don't want a me to touch it. An expert workman will shape and sharpen the teeth with an Emery Wheel, in the teeth case hardened, in which condition the saw will cut about 33) per cent, more lumber than a seft saw will. Those who want to use the flie, however, have only to touch the saw lightly a second time (after going all over it once), malkiths second touch will cut through the case-hardened scale.

### QUESTION OF QUALITY.

Thirteen years of experience as makers of, dealers in, and actual users of Emery Wheels, have led us to a decided opinion as to what quality is the best. We profer for almost every use an "Extra Soft" wheel like the "Pocono." We believe that money lost through the rapid wear of the wheel is more than made up by the money saved on wages. As we cannot get every one to adopt our views, we make several qualities, so as to meet their views. We say to those who think they can only be satisfied with some other make of wheels (not Tanite), that we can furnish qualities to match any and every other make. If you have get used to some special quality of wheel, let us know what. Is, and we can send you a Tanite Wheel of similar quality. Our regular classification of Eaw Gumming Wheels is as follows:

CLASS 2. MEDIUM-HARD.-This Wheel is THE STANDARD Saw Gumming Wheel all over the world, Probably seven-eighths of all the Saw Gumming Wheels used are "Class 2 It cuts fast and keeps its shape well. Some think it too hard, some too soft. We prefer the "Pocono."

CLASS 3. MEDIUM-SOFT.—The same as to coarseness and fineness as "Class 2," but a softer, and therefor freer cutting wheel.

CLASS "POCONO." EXTRA SOFT.—This Wheel we prefer to all others. It is both fine in grain and refer than either of the above. As a Saw Gumming Wheel, Class "Pocono" is specially suited to those practical and experienced Sawyers who know how to grind with a light-touch, and who want a free cutting wheel that will not create much heat.

Illustrated Circulars and Catalogue, showing Cuts of Saw Gumming Machines, and Shapes, Sizes and Prices of Wheels, sent free on application.

# The Tanite Co. Stroudsburg, Monroe Co. Pennsylvania

CNADIAN TRADE SPECIALLY SOLICITED.

# M. Covel's Latest Improved Automatic Saw Sharpener!

Is the Most Perfect Machine that has ever been Introduced into Mills for that purpose.

CIRCULAR SAW STEAM FEED!

I would also call special attention to my

### Heavy Circular Saw Mills

and for STEAM MILLS, would recommend the Steam Feed, having put in several which are givin ; the best of satisfaction, as will be seen by the following testimoulals. —

GRAVENHURST, August-20th, 1880.

WM. HAMILTON, FSQ., Peterborough.

WM. HAMHTON, FSQ., Peterborough.

DRAILFIR. I have used your Steam Feed for near four months, and it has given mo perfect satisfaction in every way; it is admitted by every person who has seen it work to be the best feed ever invented. Since I put it into my mid, I have not lost ten minutes time fixing anything belonging to at. I can cut is boards 13 ft, long in one minute. It can do muco smoother and better work than the pinlon feed. It is easily governed and reverses the cartiages instantiy. I am thomoghly satisfied win it and can te simmed it to any person who has a threalar Saw Min for cutting long or short logs. I consider I have cut more lumber than will pay for the Steam Feed since I got It than I would have cut had I not put it in.

Yours respectfully,

Yours respectfully, WILLIAM TAIT, Lumberman, Gravenhurst.

Toronto, August 11th, 1880. WM. HAMILTON, Peterborough, Out.

DEAR SIL - The Steam Feed you put in is working splen-didly. Yours, &c.,

THOMPSON, SMITH & SON.

I am also manufacturing Saw Mill Machinery, for all sizes of Gang or Circular Mills, Span or Doub'e Circulars for Slabbing Small Logs. My Patent Jack Chain for drawing logs into Saw Mills, acknowledged by all to be the Cheapest and best over got up; also, my Patent Lumber Markers, different sizes of Edgers, Gang Lath Mills, Trimmers, Power Gummers, and all Machinery used in a first class Gang or Circular Saw Mill; also, small Hand Gum mers for use in the woods, for Cross-cut Saws. Retary Pumps of different sizes, for Fire Protection in Mills, &c.

### **Horizontal Engines and Boilers**



Where economy of fuel is the great consideration, along with uniformity of speed, such as is required in Grist and Flouring Mills, Woollon and Cotton Factories, or large Factories of any kind, I supply the Corites Linguis. . feel instilled in saying that our Style, Workmanship and Finish on this Engine will be no discredit to its renown, and cerairly is not equalled in this country for economy of fuci I have them working at 2 pounds of coal per norse-power

PETERBOROUGH, ONT.