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PETERBOROUGH, ONT., DECEMBER 1, 1883.

NO. 23.

would probably rise from the investigation with were getting money by it or not there was cortainly a great deal of business doing.

Liverpool has been for some months past on what may be termed "the croak," on account of the importation of wood goods being much in excess of the demand; but a more hopeful tone then began to provail. Large quantities of goods were going away into the country, and the worst that could be said of the market was that " the imports kept pace with the consumption," So it will be admitted they ought to do, at this time of your, and something more, else where would be the stock to carry the building and other trades on till next season came around? There was no further retrogression in the price of spruce at the public sales. and it was admitted that buyers were coming forward more readily than had been their went of late, for which sufficient reasons were assigned, chiefly in the tempting prices at which goods were to be secured, and the approaching close of the import season, when they will no longer be obtained so cheaply. Birch timber and sawn pitch pine, but especially the former, fetched fair prices, and showed that there were plenty of buyers still in the market.

Hull reported diminishing arrivals, but plenty of deliveries, as "the railway company and the river aloops were very busy." The same state of things was also announced from Hartlepool, which was "enjoying in most departments of the trade a fair amount of work;" and what can be pleasanter to record than this? "A very fair trade is doing in cawn wood goods, which are mostly going out of the stocks in the yard. A large number of orders for deals, battons, and floorings are daily leaded up, and are evidently intended for immediate use among joiners and builders, as distinguished from the huge quantities sent from time to time ex ship into the interior for stocking purposes;" and the saw mills of the neighborhood were said to be working very briskly.

No slackness of business, excepting in the import department, is reported from Grimsby, Sunderland, or Newcastle, and the abatement of the supply is likely to stimulate the demand. Only mining wood seems to be in excess about those regions, and a fair trade was doing in timber with the ironworks, collicries, and manufactories around. Leith was by no means overstucked, and the importation was slackening, while at Glasgow, which, as we stated last week, has been importing very freely, the prices

WHICH WAY IS THE MARKET TENDING ? a London importer's mouth water. Quebec 3rd The Timber Trades Journal of Nov. 3, says. pine deals of good sizes fetched £11 to £12 per If any inquirer doubts the activity of the tim- standard at Messis. Singleton, Dunn, & Co.'s ber trade of the United Kingdom in a general sale of the 18th Oct., and Michigan, 1st 226 to sonse, we commend to him the perusal of the £27, and 2nds £20 2s. 6d. at the sale by Mesers. provincial reports in our last impression. It is Edmiston & Mutchell on the 24th-prices untrue they are not all equally favorable, but he known to the London market, even when times were much better, and indicating that there is the impression on his mind that, whether people great life in the trade, notwithstanding the abundant rate of supply that has hitherto prevailed, and the expectation of a good deal more to come forward before foreign shipments coase for the year. If we had only these reports before us, the

untaying prices of the London public sales would seem unaccountable, but other bodements are singing in the winds which it would be imprudent for the trade to ignore. An increasing number of vessels, our stockholm correspondent tells us, are arriving to load at the lower Gulf ports, and it is already precuptible that a considerable number of ships are still affeat, tumber-laden and destured for these islands, as well from America as from Europe. A single sentence semetimes divulges more than a whole column of beating about the bush; and such we find in the Cardiff report of last week. A number of market carroes were then and there tamounced, with the following information addad :- "Some have gone to Bristol, others to Sharpness, and some have been taken in here to be landed, we understand, for shippers account." Coupling this with the Swedish statement (under date of 20th October), wherein our correspondent expresses his belief that the fall shipments from the Gulf ports "vill reach very near an average, in spite of assertions to the contrary so frequently heard a month ago," it may be safely inferred that there is yet a good deal of tunber produce to come forward, and that the trade will be fortunate if it is not burdened with something more than an average fall importation ere the setting in of winter closes the timber shipping season. It is satisfactory though, in the midst of its unwented importation, that the retail trade of Cardiff continous in a prosperous state, as confirmed by the following sentence—"Retail business is very brisk; all our timber merchants are excoedingly [busy, sending away as fast as they can deliver, and we hear of nothing but contentment regarding the trade." What more could be said, if we were in the midst of those good times which are always coming but never acknowledged till a succession of commercial disasters undeniably prove to us that they have just gone by.

Last week we traced briefly the progress of importation throughout the land, in comparison of 1882, and on the present occasion we have realized at the publicasice were such as to make | wanting evidences that it is maintaining its | there were but few changes made, but within the l'embroke public school.

ground, and even going ahead through ali the countervailing influences which were acting to year restricted to the legitimate business of buy ing abroad and selling at home by the establish ed houses in the trade, there is nothing to show that is not in the way to a measure of prosperity quite equal to that of any period in the best scords of the past.

The worst sign of the times may perhaps be ound in these market cargoes, which are the bane of an established trade. When firms have imported all that they are likely to require for the connection they rely on, and by which they expect to realize a fair profit, nothing can be more vexatious than to see the cut from under them as it were by a crowd of cargoes sent into their port on speculation, which they have either to buy, at some inconvenience probably either as to money or space for storage, or to allow to be sold piecement to the very customers on whom they depended, to relieve them of the stocks they had already imported.

Money is however easy, and trade is evidently in good heart as a whole. Only in London do we see sacrifices made, which are quite inconsistent with the state of trade elsewhere; and even in London, should the supply not very much exceed moderate bounds, it will surprise nobody to witness a great change for the better, before the end of the year.

TAPER GROUND SAWS-THIN SAWS.

The majority of all millmen and filers know but little of the changes that have been made in saws in the last twenty-five years. When the circular saw was first introduced no one knew anything about hammering them open; it was thought the stiffer the plate the better. Then they were all made straight guage. Following came the taper ground saw, which has been in use twenty years, and is still in use by majority of mills. Now I would like for some one to bring proof that it is better to have the plate thicker in the centre than elsewhere, and convince me of any benefit to be derived there-It would be much easier to convince me that I am wrong than to convince the great number of mill-men who are using taper saws that they are wrong. Since the motion of circular saws has been increased, the extra steel in the centre is a detriment instead of benefit. It is well known that a saw will not run well when it is stiff in the centre. I would by all means prefer it thinner there than otherwise. My reasons are these: First, a straight saw will run with less set; second, it requires less hammering to put the saw in good condition for | realized, a young boy 12 years of ago, named running. The less set the less power it takes to | Taggart, becomes the possessor of about \$10,000. drive it, the lighter it cuts, and the less liable it, in eash, besides a very valuable farm. He is a attempted to show what kind of markets the is to buckle and dodge. Everything that will son of the late har. Angency, amount agree a should be sought broke, who died seven or eight months ago.

tho last five years there has been much discov ered that nearly doubles it capacity. And other its disadvantage, and were it for the rest of the things, when better understood, will add to this officiency 25 per cent more than is now realized by the majority of mills.

Many mills are now running thinner and straight guage saws. Some are making a success of straight 8 guage 60 inch, and some do well with 10 gauge 72-inch. I have faith and confidence that five years hence 10 gauge saws will be run with as much success as a gauge saws now.

This using of thin saws 'a subject of much interest to all persons engaged in the manufacture of lumber. Timber is becoming too scarce and expensive to waste 25 per cent of it in saw dust. All that can be saved by the use of thin saws over thick ones is clear gain. Many try to run thin saws, but fail for lack of knowledge how to run them and how they should be made. There are several causes why millmen are not running saws three or four gauges thinner than those now in use. Thin saws can be run if they are properly handled One prominent cause of their failure to run satisfactorily is in not having the proper number of teeth. It is not all in fling; much depends upon the hammering of the saw. I have see gauge 72 inch saws run in hardwood and carry as much food as as was carried ten years ago in soft timber by 8 gauge, and with good results. (M. Corel.

Conversion of Prairie into Forest.

Attention has lately been called to the fact that the numerous small prairies that were common in the Wabash basin at the time of its first settlement have become transformed into woodlands, and that owing to this gradual change of prairie to forest, the actual forest area of some of the counties of Southern Illinois is greater at present than fifty years ago. Extensive woods of oak and hickory more than eighty feet in height, and with trunks of nearly two feet in diameter, are now growing on what was open prairie within the memory of some of the present owners of the land. This is interesting as a slight indication of the solution of the mystery which involves the origin of the prairies; while the rapidity with which these new woods have sprung up, shows that the reproduction of our failing forests can be accomplished in a shorter time than is generally supposed, if proper consideration and attention can only be given to the subject.-Lumber

A Small Fortune at Twelve.

By the sale of timber limits on Saturday last, at Ottawa, from which the sum of \$37,000 was Young Taggart is at present in attendance at

THE DEMAND FOR OAK.

Ten Years ago it would hardly have been admitted by dealers who handled Michigan and Indiana oak that in a decade there would be a that a scarcity would be folt. Oak was in too great abundance in some sections of these states to suit the fancy of the owners of the land upon which it grow. Much of it was cut simply to get it out of the way, and the owners of it thought they were fortunate if they could sell it to mill men who would cut it, and thus, themselves, be saved that trouble. There was less call for it then than now. As the building of railroads has increased, the demand for oak increased proportionately, until now the once great oak states, Michigan and Indiana, can not justly lay claim to being called such. Unk in those states has not beened in price like walnut-it is not an ercessive price that bare a supply-but heavy contractors are looking elsowhere for it for the very reason that they are obliged to. There is a large amount of Tennessee and Kentucky oak, upon which heavy freight rates are paid, distributed from the Chicago market, and the amount coming forward from those states will increase year by

Fashion has little to do with the use of oak. From the start it has demanded to be used, and it holds its place with a grip as strong as the wood itself. The two kinds of pine may jostle each other; whitewood may take the place of white pine; walnut may be crowded out by the other kinds of hardwood, and often by soft woods; in fact, most of the woods, in their uses, are subject to the caprice of taste, but oak stands sturdily by and refuses to yield. For cars, stayes, agricultural implements, for a hundred and one things, in fact, it must be had. The discovery of forests of other woods does not affect its value. There has nover yet been any materit' discovered or invented that will take its place, and we feel telerably safe when we say there never will be. It is one of the few indispensable woods.

We doubt if to-day there is a market in the world that is not demanding good oak. Throughout the foreign countries the call is so large that it cannot be filled. English car builders are buying car sills on track in Canada, and their operations would be extended to the States if they could find responsible parties with whom to make contracts. The inspection is sovere, and that stands in the way of the American manufacturer, for as a rule, he does not like to be bound by specific specifications. Ho delights to take a go-as-you-please gast and the result is that his lumber often is not up to the requirements of the purchaser. The exact methods of the white pine manufacturers of the Northwest he has not learned.

. The oak of Arkansas, Mississippi, Tennessee and Kentucky will in large part, in the share of timber and staves, find its way to southern ports, and thence to Europe. On the Mississippi river and its tributaries the stave business is picking up, and with cheap water transportation to New Orleans, the business will not only be a large one, but it ought to be very prontable. On the same rivers the getting out of oak timber for the foreign market will become a large business, spurred on by northern push and capital. Alabama, we believe, is yet destined to tend a good deal of oak abroad. Some of the English dealers object to the oak of that state, but they must overcome some of their objections For to get all the oak they want from Canada and Michigan is out of the question. There is certainly no tougher oak than grows in the South, and this quality is the one needed.

Red oak, a few years ago thought to be worthless, is no longer despised. Its value has become known, and the uses to which it will be But will increase. That the manufacture of it anto staves for the West India market will grow into an important industry admits of little question. Taking overything in consideration, the owner of eak stumpage ought not to feel that he has a very big elophant on his hands.—Northwestern Lumberman.

THE St. John Telegraph learns that the Government of New Branswick is preparing to have the province represented at the Forestry Exhibition in Edinburgh next year.

THE LUMBER TRADE OF RIGA.

From an article in Le Marchalid de Rois on the lumber trade of Riga, Russia, we take the following: Of the ports of the Baltic provinces, thinning out of the "monarchs" of the forest stiga exports more lumber and timber than all the others, consequently a statement of the amount of this trade done at Riga will give some idea of the extent of the lumber trade of Russia in Europe. The details of the exports of Riga for a series of years from 1871 to 1882, are taken from a recent official document saucd from the bureau of commercia. The tumber and lumber reaches Riga by the Duna and its cributaries and comes from the provinces of Lovonie, Esthomo, Courlando, Mahiten, Minsk, and Sithuanic. Notwithstanding the extensive devastation of the forests, carried on with no assurance of their renewal, the vast forests which formerly covered these provinces yet contain large reserves of timber of the best quality, but their continued depletion with no provisions made for their future restoration should give serious apprehension. The transportation of the wood from the forests to the rivers, which is made by log waggens during the snows and frosts of the winter season is attended with increased difficulties and costs when the winters are usually ramy, which are quite common; and the transportation by water is also difficult on account of the shallowness of the waters and strength of currents; and, additional to this it is peculiarly difficult to safely run the rafts which are constructed to suit the special navi-gation of the streams. The large timbers are bound together and form the raft proper. On these are then placed laths, staves, clapboards, etc. It is said the manufactured stuffs brought to market in this way are limited in quantity This is to be regretted as persons who are acquainted with the interior of Russia state that it would be much to the interest of the proprietors if they would pare of on their places in the interior the greater point of the flooring, laths, deals, scantling, etc., as it is well known that large quantities of timber use ful for these purposes are left to rot. It is also stated that the debris left by the loggers in the pine forests might be profitably distilled; but to bring about such necessary improvements and progress, the interior must have the benefit of better methods of communication with the markets than by the inefficient and tedious rafting system.

The rafts are formed on the ice before it be gins to break up in order that advantage may be taken of the first rising of the waters. When this occurs the rafts usually arrive at Ruga from eight to fifteen days thereafter.

During the period above mentioned from 1871 to 1882, there were exported from Riga 87,377. 512 pieces of timber and lumber, or an average of 7,281,456 pieces per annum. The progress made in this trade since 1871 is shown by the fact that in that year only 4.542,155 pieces were exported; whereas, in 1882, 9,184,199 pieces were exported.

The total value, in silver, of the wood exported in that time was 122,342,708 roubles (\$91,-750,000); a yearly average of 10,195,225 roubles (\$7,646,000). The value of the exports of 1882 was placed at 12,911,072 roubles (\$9,683,000). A silver rouble is worth about 75 cents.

Of the leading articles exported during the twelve years, were in pieces, 3,651,095 staves and clapboards; 30,382,566 sleepers 49,491,155 posts and flooring. With the exception of 47, 769 paces shipped to Africa, the whole amount was cleared for European ports. England received 58.7 per cent of the total exports; Holland 14.1; Germany 10.1; France 5.6; Belgrum 5. and l'ortugal 2.2 per cent. The balance was taken by Denmark, Sweden, Norway, Spain and Italy. During the year 1882 the average charges, per St. Petersburg standard, to French ports were as follows: Dunkirk, Boulogue and Dieppe \$9 to \$9.50; to Havre, Honfleur and Rouen,\$10.50@\$11.50.

On the whole the timber and lumber trade of Riga, for the past several years, has made notable progress, and the movement in 1682 was especially favorable. The trade of France with this port, though not near so heavy as it is with Norway, yet it is of no mean importance as the transactions for 1882 reached the sum of about \$\$35,000, and is susceptible of considerable ex-Dansion.

THE ADIRONDACK FORESTS.

The forest region popularly known as the Admondack wilderness extends over a territory of nearly 2,500 square miles, including within its limits large areas of swamp, lake, and bare mountain tops. Nearly 1,000 square miles of this territory are probably already owned by the State of New York, which has gradually become possessed of the lands through the failure of former owners to pay taxes upon them.

It has long been the custom among owners of Adirondack, forest property to cut off the for ests as rapidly as a market could be found for the logs, and then abandon the worthless land to the State. It follows that the State lands are not in one or more large, compact bodies, but are widely scattered throughout the wilder noss, and are not now covered with any considerable forest growth. The possessions of the State, therefore, great as they are in the aggregate, cannot at present greatly influence the water supply of the upper Hudson basin. In spite of the fires, however, which have swept over such portions of the wilderness as now belong to the State, destroying what little fortility the soil once possessed, forests will grow up agam upon these lands in the natural course of ovents. Years, however, must clapse before these new forests, even if successfully protected from further damage by fire, can be expected to exert any considerable influence upon the water supply of the State.

The law which prohibits the sale of any portion of these lands is a step in the right direction. It is only a stop however. In order to insure a permanent flow of water form the northern part of the State, the whole Adironack region must be preserved in perpetual forest. As long as bodies of tunber, the property of private individuals, remain scattered among the State lands, it will be honeless to undertake the preservation of the detached portions of the forest belonging to the state. Fire follows the axe of the lumberman, and nothing can prevent the spread of fire from private to public lands. If the private owners of the forcet in the Adirondack region continue the lumbering operations now projected, the destruction of the entire wilderness is inevitable. The fires, which will find abundant material in the dry tops and branches of trees scattered by the lumbermen about their camps, will sweep year after year over the entire territory now occupied by the northern woods, gradually converting it into a barren desert, incapable of producing again even the most insignificant forests, until the growth and decay of generations of humble plants shall have returned to it some portion of its lost fertility. Nature heals such wounds made upon the earth's surface very slowly even in a climate of our own, and centuries, perhaps, will clapse before the forests of northern New York, once theroughly destroyed by fire, can be made to flourish again. During such a transition period, possibly extending through centuries the Erie Canal will remain useless for the want of water; the upper Hudson will no longer be a navigable stream; towns and villages now rich and prosperous will be deserted; and the commerce of a mighty nation will be diverted from te natural channels.

If it is desirable to prevent such far-reaching calamities, no half-way measures should be If our water supply is to be maintained, the state must speedily acquire control of the whole Adirondack wilderness, and govern it in a manner to insure it against the danger of total destruction by fire. Nothing short of entire, absolute control can produce the desired results. The Eric Canal and the Hudson River cannot be placed beyond danger by any ill-considered nicasures or the makeshifts of inistaken economy.—N. Y. Sun.

GIGANTIC FAILURE.

MONTBEAL, Nov. 21 .- The news of the suspension of the oldest lumber firm in Canado, established over soventy-five years, struck financial circles here to-day as if a thunderbolt had fallen within their midst. No one could believe at first that the house of John Sharples, Son & Co., of Quebec, that had never in its long career been embarrassed, should be in finaucial trouble with half a million dellars liabilities. It was more than astounding, yet it was true. We have spoken of the duty on lumber—that The cause of the sudden embarrasament arises should be taken off at once, We ought to

out of the failure of the firm's agents in London and the downward turn of the English market for spruce deals, of which they have a quarter of a million dollars' worth awaiting sale in Liver pool and London. It appears that the English market has depreciated 20 per standard for the spruce, and if the house was compelled to cell the loss would be enormous, whilst by waiting some time the market is bound to return to its nor mal condition, and they would come out all right. The firm has shown the Merchants', the Union of Lower Canada, and the Quebec banks a statement with an estimated surplus of \$90, 000 of assets over liabilities, and asked for an extension, which was readily granted by all the banks interested to-day.

Mr. Charles Sharples retired in 1870, when the present firm was established, being composed of Mr. John Sharples, of Quobec, and Mr. Georgo Oswald. Mr. Sharples died leaving a fortune of a quarter of a million of dollars, which was divided among his wife and family, and a large portion of which was invested in the present firm, The stock of the Union Bank, which is most largely interested, fell ten per cent, this afternoon. It is expected that more lumber firms in Quobec, New Brunswick, and Nova Scotia will have to succumb, as the English market is very depressed at present --

LATER.

The Montreal correspondent of the Mail, writing under date Nov. 22nd, says :-Although commerce is dull here at present, yet business men and banks are cheerful, and take a sanguine view of matters comming out all right. It is true there is a shortage in the winter wheat crop, and that the lumber market abroad was against exporters, but these misfortunes must In an interview with a leading banker to-day, whose bank is interested in the failure of the old firm of Sharples, Son & Co., of Quobec, he assured me that a better or more satisfactory statement he had never seen prosented to creditors in his career than had been furnished. At least 50 per cent. of the assets can be realized at once. The firm is only asking three months extension, and my inform ant hazarded the opinion I heard expressed by a leadir; merchant this morning that the extensi a would never have happened only to get rid a partner in England whose social habits were such as to prevent their great business being looked after and pushed as vigorous ly as they required. One of the brothers has started already for Liverpool to take the management there. The liabilities are distributed among the following banks :- Union, \$140,000; Nationale, \$10.000; Quebec, \$35,000; Merchanta', \$10,000. Added to this is the family claim, estimated at \$110,000, which is not ex pected to be pressed. The firm's losses in England are reported to be very heavy.

SAVE THE FORESTS

Our esteemed contemporary, the Sun, calls upon its associates of the press to come up and help save the forests of the country. pond with pleasure. We welcome the light of the Sun on this point, and are willing to help get up a blaze on the subject. The importance of our forests cannot be overestimated. Their money value is enormous. The raw materials they yield-lumber, fuel, bark, etc.-are worth \$800,000,000. No other single crop equals the forest crop in value. Two millions of working men are employed in harvesting this eron and working upon it. But the money value of the forests of the country, as shown by their annual products, is small when compared with their value as the great modifiers and equalizers of temperature and moisture. It is an unquestion ed fact that, at the present ate of destruction. our great preserves of valuable timber will all pass out of existence within a few years unless some means are taken to moderate the consum ption. It is equally true that the destruction of the forests is hastened by the waste of care less proprietors and by the failue of the Government to protect these still in its possession. There is not a great deal that can be done by law to preserve our forests, but there is something, and it should be done without delay, while we have left some forests to protect.

We have spoken of the duty on lumber—that

encourage Canadian lumber to come in, instead of shutting it out. The Government, national or State, should preserve forests at the head of important streams like the Mississippi, the Hudson, Connecticut, Merrimac, Ponobscot, Kennebee and Androscoggin, for instance allowing the large lumber to be cut at stated periods, but leaving the smaller growth to cover ground and grow up. The forest lands in the possession of the Government, where such conditions do not exist, should be surveyed and sold at auction, because private proprietors will at least protect their property from waste. Where practicable, these timber lands slight be sold with restrictions. The Timber Culture Act, which was an honost attempt to encourage the of forests on the naturally treeless plains, has yielded no fruit, and might as well be re pealed.

A wise measure would be the establishment of a Commission of Forestry, made up of men who know something on the subject-of whom the number is so limited that selection would not be difficult- to consider the whole question and report what should be done. If at the head of such commission we could have such a man as Prof. Sargent of the Arnold Arboretum. assisted by the intelligent arboriculturist, Mr. Charles A. Dana, editor of the Sun, and others whose studies have been in this direction, we should be sure of a report of great value, and so ably presented that even the average Congressman might be stirred to action for the preservation of our forests. - Boston Herald

READY MADE HOUSES.

The manufacture of ready-made houses is a business which has attnined considerable prommenco eastern and Canadian points. Few people unacquainted with the facts have an inteligent idea of this business, and the following concerning the Kennebec Framing Company, of Bangor, Maine, from a local journal, may be interesting.

Dwelling houses are made like boots and shoes-in any quantity or of any size or style, and for any market in the wide world. Not long since this firm received a shingle order for fifty houses for Cape May, to be delivered speedily and in complete finish, Those houses were not to be sheds, nor shanties, but regularly ordered dwellings, and they were made accordingly, and so delivered, and contain hundreds of occupants at this moment. An order will be received for a \$50,000 hotel, or an orn. a French roof cottage for a country catate, and these are as easily and expeditiously furnished as an ordinary boarding house for a country village or a barn for a rauch in Kansas or Colorado. It is not to be supposed that only a coarse, rough frame is thus sent out, to be trimmed into shape on the spot where it is delivered. On the contrary the house is complete when it leaves the factory, and as ready to go together as a musket when it leaves the armory in Springfield : all the parts being found, even to the knobs for the doors, and the screens and shades for the doors and windows, according to specifications. Great trains of freight cars stand waiting about, and are freighted almost daily here. The refuse trimmings and edge cutting of the lumber are carted off to a neighboring pulp mill, and there speedily turned into material for paper, or other product. Machinery for almost every conceivable use in connection with wood is at hand. and house materials, of any kind, or size, or shape, seem to drop out like meal from a hop per. In a recent instance, where a large build ng was furnished for a southern order, the parts were thus made, and when put together in the city where the building is now standing, its length was found to vary not the eighth of an inch from the original specifications, although its length on the front numbered hundreds of feet. Every inch of this building, from the sill to last shingle, was sent ready propared from the factory, and "set up," as readily and almost as quickly as a nail [cask.- Wood-Worker.

CARE OF SAWS.

Ewing D. Craddosk, in a letter so the Cincinati Artizan, says :- The saw is one of the most essential and sensitive tools used. A saw to do the work require of it should be kept in a condition to do work. First, the saw \$1.00

should be well balanced on the mandrel and hang true, presenting a straight face on the log side; hang the saw plumb up and down second, keep your saw well pointed, so that every tooth will do the same amount of work that is required of it, these are the first ele ments of a successful mechanic; these, too should always be closely observed, third, is the shape of the teeth, to which, as a rule, but little attention is paid by the majority of sawyers. Every man has his own ideas about putting his naw in order, therefore, all cannot be right. My idea is this. A saw tooth should come in contact with the kerf that is to be removed at an angle of 45 degrees. This will produce a thin cutting edge, and will be found to produce the desired result, cutting with the least power, and to economize power is a matter of interest to all. It makes the lightest running saw. As to awaging the teeth, or spring them, I sometimes run one, then the other, but the spring tooth is, by far, the lightest running and cuts smoother lumber. The full awage, with plenty of power, will do as good work as any. The objections I have to the full awaged tooth is that it takes more power to drive it; consequently there is more strain on the plate of your saw; besides it cuts more kerf than the spring tooth, making your saw more liable to buckle. All sawyers know the wider the kerf the more power it takes to drive the raw, and the less feed can be carried; but a spring-tooth will cut a quarter less than full swaged, and, as a matter of course, makes the lightest running saw, Still, each tooth cuts the same distance into the timber, and, therefore, I recommend the spring-tooth. I always spring the teeth at the extreme points, to prevent them from losing their set, for the nearer the point a tooth is act the longer it will retain its set; and file the under sides of each tooth a little beveling, say 12 or 15 degrees, and the back straight, and you will find this kind of dress will give satisfaction in all kinds of timber. In this country, most all the sawyers run the chisel tooth, or, as some call it the full swage, no set, and meet with good success. The reason of this is that a full awaged tooth is easier uled than a spring-tooth. Yet a spring-tooth does not require half the work to keep it up that a full awaged one does, and will make great saving in files and emery wheels.

The "Tribune" On Forestry Laws

Speaking of the rapid destruction of forests, the New York Tribune says : The usual practice appears to have been to cut down all the trees on a section, except the young shoots, and leave the bush and branches to dry and most likely catch fire the next year. And thus what the axe may have left, the fire consumes, so that it really tooks as though every precaution had been taken to destroy our forests as rapidly as possible. It is the custom of the Americans to speak rather patronizingly of the Canadians, but in this matter they are wiser than we. There is a law in the Province of Quebec which forbids the cutting of pine trees unless they are 12 inches or over in diameter at at the butt, and the same timber dues are charged upon the small logs as upon the large ones, which has had the salutary effect of discouraging the cutting of small trees."

Our North-West Forest.

The Winnipeg Times of Nov. 17, says .- Mr. Robert Gunn, Crown Timber Inspector, has examined the Riding Mountain country, and says that it contains a plentiful supply of spruce, poplar and jack pine, which will be amply sufficient for the wants of Northwestern Manitoba for many years hence. He leaves on Monday to inspect the Duck Mountain country north of Birtle and Shoal Lake.

W. E. EDWARDS paid \$37,000 at Ottawa for three timber limits, containing 100 square miles. situated near the headwaters of Lake I'de. Oninze, near the boundary line between the provinces of Ontario and Quebec, on the Upper Ottawa.

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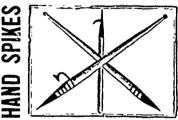
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FOREST PROTECTION.

The following article by our esteemed corresponditions pondent Mr. Edward Jack appears in the St. John, N. B., Ulobe, and we are happy to reproduce it .-

During the present autumn, when in the forests of the interior of New Brunswick, my attention was arrested by the brownish red color of the tops of the spruce trees on a ridge not very far distant from the hill on which 1 stood. To my astonishment I found that fire had ponetrated those woods for a distance of from 12 to 15 miles, its average breadth being 2 miles, involving the loss of at least \$50,000 to the owners in the way of etumpage, to say nothing of that to the country in the money which would have been spont in hauling, driving, sawing and shipping so many trees.

The fire in this instance had been the result of carelessness of two mon employed as cooks on a river drive. They had set it in a buch pile on the shore of Burnt Hill stream and neglected to oxtinguish it,

During the time when locs are being driven fires are very ant to run even in hardwood lands, owing to the masses of dry leaves which at that time cover the surface of the ground when once plants and low shrubs are in full leaf, there is very little to dread from forest fires until late in the season, after long droughts when every green thing is dried and parched

Forest fires are usually started by river drivers, hunters, fishermon, or free grant and labor act sottlers, who have allowed to occupy what is usually called, among lumbermen "black land;" in other words covered chiefly by a soft-wood growth.

To meet these special cases there is no legis lation, although it is urgently demanded. I propose to take upeach of these cases soparately. and show, in so far at least as the valuable Crown Lands of the Province are concerned, how the danger of destruction from forest fires can be reduced to a minimum by wise legisla-.tion and the adoption of cheap precautionary measures.

Before doing so and by way of preface I will quoto the words of W. Little, Esq., of Montreel, a gentleman who has over been foremost in the advancement of forest interests :-

"If the timber land owner would annually expend the same percentage he is willing to spend to insure other property of like value, towards putting his timber property in safe condition, he could so place it that it would be difficult to set it on fire so as to do any serious injury."

First mentioned and perhaps as important as any in the subject of forest fires caused by carcless river drivers, a class largely composed of reckless and sometimes unprincipled men. Log drives are yearly becoming more consolidated, and the work which was formerly undertaken by half a dozen parties, is now frequently executed by one, since the greater quantity of lumber driven, the cheaper the work can be done, all other things being equal.

Such being the case one expects the party in charge of a large drive to see that proper care be bestowed on his neighbor's property, through which he is passing, and here legislation should interfere and require him to do something like the following manner -

He should be required to appoint one trusty man to see that no fire be left burning when the driving parties leave the spot where they have been encamped over night or when the men leave the spot where any may have been kindled for the purpose of lunch, dinner or any other meal : should the chief river driver fail to make such appointment of fire ward he should in such case be liable to a penalty and be made chargeable by law for any loss through forest fires which might occur by or though the neglect or care lesances of his men Purther, if any forest fire should happen by or through the neglect of the driving crew, that the party or parties guilty of such neglect or carolessness should forfait his or their wages, provided damage be done to the surrounding forest to the extent of \$10 or more, such party or parties being also subject to fine or imprisonment.

In order to compel the holder of the timber license to take an interest in this matter a clause should be inserted in the same, that in case the question was in the direction to which Mr. expressly for the woods from the exhibition, observed that "if our forests had been judic-

whole or part of any logs cut on such lease should be driven without the appointment of such fire ward by the man in charge of the drive, that all the blocks on which such logs may have been cut shall, or may be, declared vacant, and be again offered for sale at public auction.

The next class of people who sometimes are the cause of forest fires are hunters. As this business is uncertain and precarious, it would be as well for the interest of the individual, as well as for that of the country, to discountenance the professional hunter as much as possible, more especially as he frequently kills mous and carriboo for their hides alone, leaving the carcass in the woods to rot.

It has been suggested by Mr. Henry Braithwaite, and I entirely concur in the idea, that it would be well for the Government to make a large game reserve of the ferests on the north side of the South West Miramichi, extending to the lobique and Nepisiguit, and to place the same under the mangement of some competent woodsman, with competent assistants, whose duty it should be is to see that the game on these be protected. There are yet in this part of New Brunswick plenty of carrboo and many moose, and protection of game means protection of the forest

In order to meet the expenses attending such reserve and its protection, hunting and fishing permits could be issued to parties giving bonds to hunt according to law, such parties to pay such reasonable sum as might be demanded. I have no doubt but that in a short time permits enough would be sold to more than pay all exponses, while the game would suffer no decrease the production keeping the stock up.

QUEBEC PUBLIC FORESTS.

We take from the report in the Montreal Herald of the proceedings at the annual meeting of the Province of Quebec Forestry Association the following extract from the discussion on the President's report. It will be seen that the Ouebec Commissioner of Crown Lands takes an intelligent interest in the subject:

Mr. J. X. Porrault referred to the great importance of education in the matter of forestry, and expressed the hope that the association would encourage the distribution of forestry literature throughout the Province. He would like to know, from the Minister of Crown Lands, if his department intended taking any stops to assure a proposidistribution of forests in districts, so that the cutting of the forests should be done systematically, and that when one portion was cut the hunbermen should not return to that district for say twenty years when it would be restored. This was the system followed in Europe and he thought steps should be taken to procure the same here.

THE COMMISSIONER OF CROWN LANDS

Hon. Mr. Lynch, in roply, said that the progress that had been made in forestry matters since last year must prove a source of the greatest encouragement and satisfaction to the members of the society, and especially to the president, Hon, Mr. Joly, who had gone to much trouble. He did not think that persons generally realized the difficulties that attended the foundation of this society and the establishment of what was known as "Arbor Day." When the idea of having such a day was inaugurated he himself had thought there was very little in it, that it was more of an idea that would never become a reality. Practical experience had however, shown him that it was a reality which could not fail to be the source of much future good to the country. There had been not a few difficulties attending the inauguration of such a day, but he was glad to be able to say, that from one end of the Province to the other a beginning had been made, and not only in the largo cities and districts, but also in the smaller hamlets and villages, had the day been celebrated with much success. This, he was pleased to notice, was one of the results of that combined associated effort that had led to the foundation of this Association, and to the adoption of legislation regarding the protection and separation of our timber and colonization lands. He firmly believed that the latter was one of those pieces of legislation that would be of great good to the country. The object of the legislation in

Perrault had referred. He had only occupied, he fuight say, the position of Minister of Crown Lands for a few months but in this short period he had learnt that it was a most responsible resition and that upon it depended very greatly the future prosperity of this province. He thought that they should protect their natural resources; about all that they had now was their forests, and they were a legucy handed down to us to preserve, not to destroy. He might add that there was no logislation of the nature spoken of by Mr. Perrault, and he did not know that he was in a position to bring such legislation before the approaching session of the logislature for the reason that it covered the whole ground and had to be most carefully con-The aim of the Association, he sidered. thought, should be to encourage whatever Government was in power to preserve and protect their forests, and he was in hopes that before long the Association would depute one of its members to co-operate with the Minister of Crown Lands, and in this way such legislation might be effected as would assure the object spoken of by Mr. Perrault. He referred to the great need there was for education on this subject, as there existed, to a great extent, in the minds of the masses, an idea that this movement was one of no practical effect, and this idea would have to be dispelled. It had been said that a conflict might arise between the Government and the lumbermen. He, however, believed that the great majority of the lumbermen would aid them, as it was to their interest to do so. The importance of the subject was greatso great, in fact, that when the meeting adjourned it would do so with the understanding that the members should meet again at an early date to discuss the question. Legislation was imporatively needed. He would like to see it well and carefully considered, but he would also wish to see it passed as speedily as possible. The future presperity of the Province depended largely, he was convinced, upon the action they took now, and there stould be no delay in the matter, (Applause,)

Mr. J. Y. Perrault suggested that a committee be appointed to take the matter of legislation into consideration and report to the Association.

THE FORESTRY EXHIBITION.

We referred a few days ago to the Interna tional Forestry Exhibition proposed to be hold next year in Edinburgh, The forest productions of Canada are such as to enable her to take a very high place, if not the highest, in some of the departments embraced within the scope of the Exhibition. In this connection it may be interesting to refer to the report of the Royal Commissioners upon the exhibit made by Canada at the International Exhibition held in London in 1862. The Commissioners say that in point of size of specimens, excellent selection and information given, the Upper Canada collection of models is undoubtedly the finest in the exhibition building. It is contributed by sixteen individuals, and consists of planks, logs squured logs, transverse sections, polished specimens, veneers, and a very extensive series of scientifically collected and named leaves, flowers, shoots etc., etc," This collection the Royal Commissioners refer to in very high terms of praise, such as "magnificent," "beautiful," "noble specimens." Some of the wood speci mens were five feet in diameter. One of white oak which reached London too late for exhibition, was six foot in diameter and six feet long, from a tree with a trunk sixty to the first limb There were planks of extraordinary dimensions one of white pine and one of white oak, each fifty inches broad; black walnut thirty inches; hickory, thirty-six inches; and a beautiful plank of soft maple twelve feet long by fortyfive inches broad. Of the scientific collection the Commissioners speak in equally high terms of praise. Amongst the exhibitors was the Hon. James Skead, of this city, who sent five specimens of timber from the Ottawa region. Samples of these were given to the leading Governments of Europe, to the scientific societies, to the Admiralty, to the British Museum, to Kow Gardens, to Lloyds, and Lloyds added, several kinds of Canadian woods to their A No. 1 ships. The Key Gardens' authorities creeted a building

giving the Canadian words the place of honour. The Royal Commissioners state that the Cans dian collection derived much of its exactness and scientific value to the exertions of the commissioner, Dr. Hurlbert, and they refer to the collection generally as one of the most complete illustrations of the resources of a colony ever exhibited. It is of the utmost importance that Canada's forest products should be properly represented at the Edinburgh Exhibition. is not too much time at disposal for making the necessary arrangements and for urbing those interested to go to work to propare their specimons. If the Government decide that the country shall be represented on the occasion, and no doubt they will so decide, we feel sure that Parliament will cheerfully voto the necessary sum of money to pay the expenses of the exhibition. There never was a time in the history of our country when so much attention was paid to Canada and her resources as the present. The Dominion is being advertised in the United Kingdom and in Europe as it was never advertized before. The visits of promin out Englishmen; the favourable reports of agricultural delogates and of men of such high standing as Professor Tanner, which we have noticed recently; the varied services of our late Governor-General; the exertions of the Canadian Pacific Railway Company; and the Canadian display at the International Fisherics ex-Inbition, all have had the effect of bringing Canada and Canadian affairs before the British public. The approaching Forestry Exhibition will afford another favourable opportunity for making the country still better known. What ever is to be done for having the Dominion represented on the occasion should be done without delay .- Ottawa Citizen.

FORESTRY IN ENGLAND.

We take the following from the London Forestry :-

On Thursday, the 2nd of August, Sir John Lubbock found the opportunity he has for some time been seeking of calling attention, in the House of Commons, to the important question of establishing a forest school in England. He did so when the House went into Committee of Supply and the vote of £23,232 for the office of woods and forests came on for discussion. John asked the Government to consider during the autumn the question of forest education in this country, and whother the natural forests might be utilized for this purpose. He said-

'So much, indeed, had forestry been neglected, that in Scotland the words suggested deer, but no trees: while the idea of foresters in England was associated with the members of an excellent provident Institution. Of course, the Crown ferests fermed but a small part of the subject. There were altegether, in round numbers, 2,500,000 acres of woods and planta tions ir this country, so that the subject was one of vast importance. Moreover, it was calculated that in Scotland and Wales they were 5,000,000 or 6,000,000 acres at present almost valueless, and which, if judiciously planted, would give large results. In the science of forestry we were, he feared, farlbehind, most foreign countries, especially Franco and Germany; and he was very auxious that our landed proprietors should benefit by the experience which other nations had acquired. But let him ask where was a country gentleman who owned woodlands to obtain information as to their management or to procure trained assistants? We had no forest school in this country; we had no class of persons specially trained and instructed in the fermation and management of woods. It was, he feared, still true that, as the House of Commons' Committee of 1844 reported, timber is "everywhere werse maneged than any other species of property." Unless something were done this ctate of things would continue. the other hand, the highest authorities had expressed a very strong opinion that we might make our woodlands much more profitable; they show one stop which was a necessary preliminary. The highest English authorities were strongly in favor of the establishment of a forest school, and had foreibly pointed out the loss which our present eystem of management. or rather mismanagement, entailed on landowners. Mr. Brown, in his standard work on forests,

iously managed we should not find so great a part of the woodlands of Great Britain in the unprofitable state in which they are."

"We were the only important nation in Europe," argued Sir John Lubbock, "without a forest school, and yet, if we included our colonies, our forests were the largest and most valuable in the world. It appeared to be a very strong argument in favor of the establishment of a forest school in this country that at present the young men who were going out to manage our Indian forests had to be sent for instructions to the great French school at Nancy. No doubt that was a most excellent institution and we were indebted to the French Government for the courtesy with which they had received our English students; but the system of education given there naturally contained some branches, as, for instance, the study of French law, that were not adapted to English students, while there were many other considerations, such as chinate, which rendered a Continental school less suitable for English requirements. He might add," he said, "that no young linglishmon, as a matter of fact, went there excepting the ntended for the Indian service. For our comes, again, the establishment of a good forest school would be of vary great importance. A judicious management of their woods would add considerably to their meome. French foresters had recently been sent to the Cape of Good Hope and Cyprus, it hav is been found impossible to obtain any co . mon of our own with the necessary knowledge. Perhaps, however, he should be asked why the establishment of such a forest school, if a were so urgently needed, should not be left to private enterprise. The reason was clear. A properly equipped forest school must have attached to it a large extent of forest in various stages, and having a variety of climates and soils. This, it was obvious, no private institution could supply. He did not, however, say that this would necessarily involve the establishment of a Government school, He understood that the Government contemplated an armangement with the Corper's Hill College, but he trusted that before instituting a Government school they would inquire whether such colleges as Circnester could be made available for the purpose, and possibly some arrangements might be devised by which, under careful regulations, the professors and students attached might periodically visit our national He might mention, in illustration, that lately the Cape of Good Hope Government determined to appoint a Forest Commissioner, with an income of £800 a year. Thye could not, however find any qualified Englishman, and were obliged to appoint a French gentleman, oven though he could not speak English. The Society of Arts had memorialised Her Majesty's Government on the subject, and the presence in this country of Dr. Brandis and Colonel Pearson rendered the moment one of which it was desirable to take advantage. He hoped, therefore, Her Majesty's Government would not think him unreasonable if he asked them to consider this important question."

TREE PLANTING.

A meeting, fairly attended by both ladies and gentlemen, was held last evening in the school room of St. George's Church, Carleton, The Rev. Mr. Dowling presided, and Mr. A. Rankine Bedell acted as secretary. Mr. Dowling, in an appropriate speech, put forward the object of the meeting which was to make arrangements for planting trees around the church grounds. He mentioned several matters of historic interest current with the affairs of the church. There are thirty-nine trees to be planted and thirty-six of them are already provided. Formal resolutions passed approving of the proposed memorial tree planting in the church grounds, providing that it should take place on Friday afternoon, weather permitting, at 2 o clock, the committees and tree planters to meet at the school room at 1.30 p. m., to complete the final arrangements, and also providing for an arpointment of a committee of five to arrange all details. The committee appointed were the churchwardens, and Messrs. Mosher, Cowio and Sewell. A vete of thanks passed to the rector and wardens the Church for the use of the room and for their services in

connection with the proceedings. It was deci. ded that if Friday's weather is not favorable the tree planting shall take place on the first fine day afterwards. A very hearty feeling provailed at the meeting. Trees are to be planted to the first bishop of New Brunswick, to the first rector, and the various rectors of the church, etc., but the list was not complete last evening.

The tree planting which was to be dene on King Square on Nov, 26th, Evacuation Day, under the direction of the New Brunswick Historical Society, has been postponed until the 18th of May next. Two trees will be planted on the 26th-one to George III, and one to Queon Victoria. -St. John, N. B., Globe.

Arrivals in London.

The Timber Trades Journal of Nov. 3rd, says :- The arrivals this week to London are very heavy, evidently atimulated by the cheap freights we have commented on lately. Forty six steamers and twenty nine sailing ships with wood cargoes in the Thames the last week in October is something unusual in the annals of the timber trade. It all points to the immense difference steam has made in the carrying trade. Formerly the opportunity of chartering at a low rate, so near the close of the shipping season would have been very rare, and the chance of getting the stuff home very doubtful, yet probably all the steam cargoes reported have been secured within the past few weeks. Of this week's London list Sweden contributes 25 cargoes, Russia comes next with 24, Canada 9, Norway 5, Germany 4, and other countries 8. Flooring cargoes are limited to two; of deals, &c., there ere thirty-nine cargoes, 11 of firewood, and seven of lathwood, sleepers, mchogany, &c., completing the list. There is not a complete cargo of square timber among the arrivals.

THE timber is being dressed and foundation partly laid of the new Rainy Lake Lumber Co,'s mill at Rat Portage,

Advice to Mothers.

Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain of cutting teeth? If so, send at once and get a bottle of Mrs. Winslow's Soothing Syrup For Children Teething. Its value is in-calculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistake about it. I cures dysentry and diarrhoca, regulates the stomach and bowels, cures wind colic, softens the gums, reduces inflammation, and gives tone and energy to the whole system. Mrs. Winslow's Soothing Syrup for Children Teething is pleasant to the taste, and is the prescription of one of the oldest and lest female physicians and nurses in the United States, and is for sale by all druggists through-out the world. Price 25 cents a bottie. Syrup For Children Teething. Its value is in-

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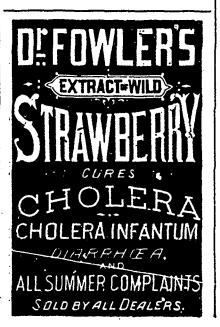
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This instrument is no larger than a watch. It tells the exact number of unites driven to the 1-100th part of a mile; counts up to 1,000 miles, water and dust tight, always in order; saves houses from being over driven is easily attached to the wheel of a Burgy, Car-ringe, Sulky, Waggon, Bond Cart, Sulky Plough, Resper, Mower, or other vehicl Invaluable to Livertmen, Pleasure Drivers, Physi-CIANS, FARMERS, SURVEYORS, DRAYMEN, EXPRESSMEN STAGE OWNERS, &C. Price only \$5,00 cach, one third the price of any other Odometer. When ordering give diameter of the wheel. Sent by mail on receipt of price, post paid. Address

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DESITED TO THE LUMBER AND TIMBER INTERESTS OF THE DOMINION.

PUBLISHED SEMI-MONTHLY BY 10 SER & Co. PETERBOROUGH.

Terms of Subscription:	
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Special rates will be made for page, half page and column advertisements. Advertisements intended for insertion in any parti-cular issue should reach the office of publication at least four clour days before the day of publication, to insure insertion

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

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

The Canada Lumberman is filed at the Offices of Mrssns. Samuel Deacon & Co., 154 Leadenhall Street, London, England, who also receive advertisements and subscriptions for this paper.

PETERBOROWGH, Ont., DEC. 1, 1883.

ANNOUNCEMENT.

WE have for the last few days been sending out subscription and other accounts. There is a very large sum on our books in these small amounts, which, though of trifling importance, taken singly, make altogether a very considerable aggregate. We would therefore invite those who are in our debt for these small sums, which they can pay individually without inconvenience, to remit the amount to us promptly, and thus collectively give us the benefit of a very satisfactory account at our bankers'.

It may be seen how large the total of these comparatively insignificant amounts must be, from the fact that we have sent out about 1.500 of these amounts during the last fortnight.

Another reason why we desire a prompt settlement, is that in pursuance of the arrangement by which our business is to be conducted after the end of this year by the Peterborough Review Printing and Publishing Company (Limited), it is necessary that the books of our firm should be closed as soon as possible.

We feel confident that under these circumstances our request will meet with ready and speedy compliance.

TOKER & CO.

THERE is said to be a machine in Glenn Falls, N. Y., which successfully makes pulp for paper out of sawdust.

CHARLES BARTLETT, of Hanover, and Mr. J. R. Hall, of Andover. Ma., will put 2,000 cords of poplar into the east branch of Ellis river this winter.

THE Kingston Whip says :- The raft caught in the Rideau Canal ico is W. McRossies and the tumber is needed to fill his penitentiary contract. He will be a heavy loser and fervently pray for a thaw.

A LARGE timber-laden vessel has been lost on the Cape Breton coast, but no trace of the crew can be obtained, nor can the ships name or dimensions bo made out.

JOHN H, MONTEITH of New York city, recently cut up a log of Moxican mahogany, which made 25,000 feet of vencors, and two other logs averaged the same.

THE superintendant of a large planing mill at New Haven, Conn., writes us that they have more orders for planed yellow pine lumber than they can fill in six months,-The Wood-Worker.

MoDonald & Shields' new mill at Vermillion Bay has been closed down for the sesson. Gangs of men will be put into the woods, and about six million feet of lumber will be taken out this winter.

CHAS. E. FRANCIS, of Cincinati, O., writes that his gravity cross cut saw is becoming very popular. He lately sent one to a Minnesota firm, and received an order for two more from the same parties last week.

THE Nupanco Beaver has this item from Queensborough: - The Rathbun Co. have now some four shanties located on the waters of Black Creek. The Gilmour Co. have stopped business in this district. It makes things dull.

THE Wood-Worker says:-For years past millions of feet of oak staves have been cut in Arkansas and shipped to Europe by way of New Orleans. The French and Germans think that in all the world there is nothing equal to Arkansas oak for making wine casks. It is stated that all other wine making nations use the same wood.

A Washington despatch says that the attention of the Government has been invited to the International Forestry Exhibition to be held at Edinburch in the summer of 1884. The exhibition will be open to contributors from all countries and is designed to include overything connected with or illustrative of the forest products of the world.

THE Indiana Lumber Co., whose saw and planing mill at Nashville, Tenn., was totally destroyed by fire last month, has taken steps toward the immediate erection of an extensive mill. The new saw mill will contain both circular and band saws. It is proposed to make the new establishment one of the most complete in that vicinity.

Texas. Arkansas and Louisiana are said to contain 190,000,000,000 feet of standing pine. If this is so, a timber famine is not probable in this generation at least, when we remember that soveral other southern states are well tim. bered. In comparison with these states the stock of timber in Michigan, Wisconsin and Minnesota, the three great lumber producing states sink into something approaching insig nificance.

ENGINEERS at Mayence have met with remains of the bridge crected over the Rhine at that point by Charlemagne near the close of the eighth century. It rested on 28 buttresses, and was destroyed by lightning, burning down to the level of the water. The engineers have removed over 50 piles of from 15 to 18 feet in length, and the timbers are well preserved, though nearly 1,100 years old. In fact, the timber is still fit for use in building. The same is true of the iron which was rivited to the

Two St. John gentlemen, Capt. Calhoun and Mr. Wm. Hanson, have purchased a tract of timber land in the vicinity of Spruce Lake, St. John county, New Brunswick. They intend to set up a steam saw min ... the lot between the amounts nearly all the shingles have been outlet of Ludgate and Spruce Lakes, and cut dimension timber for the American market. There is says the St. Croix Courier, an abundance of spruce and cedar on the properpty surrounding these lakes, and good facilities are afforded by the Grand Southern Railway for getting it to market.

THOUGH considerable rellow pine is shipped from South Mississippl to Boston and other eastern ports, yet the largest part goes direct to foreign ports, Europe, England, Africa, Central and South America and Mexico.

THE Timber Trades Journal says :- The shipments of spruce at St. John, N. B., seem to be dwindling away. Sellers are of opinion that it would be a sound speculation to buy what remains there at the present market price. They believe the time is not remote when there will be an active demand for these goods. Nor is that opinion singular. It is whispered in other quarters that the price of spruce must go up and that soon.

A SUPERINTENDENT writes :- "The best workmen I have ever known are those who give a little attention to their machinery after stopping time, just as a good groom takes the best care of his horse when it is the hardest worked, seeing that it is cared for before he gets his own supper. The result in the one case is that the horse is always fresh and ready for hard work. while the machine is always turning off a good quantity and a good quality of work."

THE Laminate Wood Company of Chicago, is about to introduce some specialties that are of interest to dealers in that line. They will consist of the French scoop for grocers, druggisus and millers: the Chapman elevator bucket, for flour and grain; and the Caldwell pulley, for all mechanical purposes. These goods are made of layers of voncers poculiarly built up according to several patents lately issued, so as to make light, strong, cheap and durable goods,

A propos of the recent cotton failures, the Timber Trades Journal says :- Though there is no great affinity between the cotton and the timber trades, we do not hear unconcarnedly of large failures in the former, because in point of fact important suspensions in any trade unfavorably affect every other, as they tend to destroy commercial credit and render the necessary accommodation which trade requires more difficult to obtain, and have a generally depressing influence.

GRAVENHURST. From Our Own Correspondent.

Nov. 24.—The weather set in very severe here about two weeks ago, accompanied by a a heavy fall of snow, in consequence of which the saw mills have all shut down. The weather has, however, moderated since and the snow has all disappeared. The following is a list of the saw mills in Gravenhurst and the immediate neighborhood, and the quantity of lumber and shingles cut by each during the season just

	Lumber. 5,000,000	Shingles.
	5,000,000	2,500,000
	5,000,000	,,
H. DeBiaquio 1	1,600,000	9,000,000
J. Cockburn 5	,000,000	3,500,000
Thompson & Baker 3	3,000,000	
Crone & Patton 2	2,000,000	3,000,000
J. Davidson 1	1,000,000	• •
Tasker 2	2,500,000	1,000,000
T. H. Carr & Co 2	2,000,000	
J. H. Hull 1	,000,000	7,000,000
Hazzard		1,500,000
T. Tait		4,000,000
King		1,000,000
P. Bartholomew		7,000,000
Eatle		3,000,000
Sundry small mills		2,500,000
matal 99	000 000	45,000,000

Total33,000,000 Besides the above there are a number of small mills up the lakes which send their lumber to this point in scows to be shipped hence by rail. The amount cut by these mills will be about 4,000,000 feet of lumber and 15,000,000 shingles, making the total amount shipped, or to be shipped, from this point 37,000,000 feet of lumber and 60,000,000 shingles. Of the aboye shipped, and about one-fourth of the lumber, leaving about 27,000,000 feet of lumber to be shipped. Should this move off very slowly during the winter (as there seems every prospect of) there will be a great rush to ship in the spring, and a repetition of the old cry "no cars," the rolling stock of the Northern & forest. Of course this division need not be

North Western Railway being totally inadequate to meet the extra demands made upon it at that season of the year. Looking back, the past season may be said to have been rather an unfavorable one for mill men. In the first place owing to the severity of the winter and the high rate of wages then prevailing, stocks cut at \$1 per M more than on any previous season. Wages have also continued high during the past summer, thus adding materially to the cost of manufacture, while those mill men who have sold their stocks en bloc have had to accept prices ranging from \$1 to \$2 per M less than last season. Over production seems to have been the main cause of this, and it will be well for the lumbermen, if, taking a lesson from the past, they confine their operations during the coming winter, and each one take out one-half, or even less, of what they have been accustomed to take out, for, unless the production is largely curtailed, the prospects are that prices will rule even lower next year. The pine in this section of the country is generally of poor quality only a small percentage of it being suitable for the American market, thus throwing the great bulk of it on our local markets, and as our markets are naturally limited over production immediately makes itself felt by causing a glut, and down como prices. There is, however, a class of lumber the demand for which always seems to exceed the supply; I refer to bill stuff, and it seems to me that mill men would be wise in turning their attention more to the manufacture of this kind of stuff. as they can always command a ready sale for it at good prices, with the advantage that it can be immediately turned into cash, without having to carry it for eight or ten months after it is manufactured as has generally to be done under the present system.

WHITE CEDAR BARK.

To the Editor of the Canada Lumberman.

SIR,-We have a little industry here, just started—that of making paper from the bark of consbearing trees-principally the white cedar bark. Can you give me, or put me in the way of getting, any statistics as to the amount of codar sawed in the different States and in Canada? As we rely on the bark that is a waste at the mill, incidental to the sawing or getting out of the cedar lumber, we might get some idea of the amount of bark if we know the amount of wood used or manufactured. Our process is patented in Canada, and we are showing a very fair business here, with bark brought from Maine by vessels. A mill in Canada ought to do very well.

Yours truly, JOHN M. ALLEN. 343 Purchase street, New Bedford, Mass.

OUR WOODS AND FORESTS.

Now that by gracious permission of the Toronto Globe the subject of forestry is open for discussion, we beg to call attention to one important branch of this question, not, however, for the first time. In spite of the great inroads that have been made upon the forests of Ontario, and, in spite of the large expanse of woodland that has been alienated from the Crown, there still remains a vast extent of land more or less valuable for its timber. In fact this class of property is a very large asset in the capital of the Province.

It cannot be said that this public property has been well managed in the past, or that it is being well managed now. It is not a party question, for with the exception of the point of treating the proceeds of sales as income instead of capital, the same want of good management has existed under both political parties. The property has not been utilized to the best advantage or to the greatest profit posssible.

It seems to us, as we have already suggested, that there should be, if not a separate department, at least a distinct sub-department or bureau of Woods and Forests for Ontario. One of its first duties should be to subdivide, in consultation with the Crown Lands Department officials, the public domain yet remaining unappropriated. After the necessary surveys and examinations are made the Crown Lands she aid Lo divided into areas open for agricultural settlements and areas to be reserved for permanent in its details, for it may hereafter be found advisable to open forest land for agricultural purposes, or to withdraw additional areas from settlement to extend the forest But from time to time the limits should be fixed and should not be encreached upon irregularly.

This system would offer several advantages of importance.

- 1. It would open the way for the scientific cultivation of our public forests and for their permanent preservation, a policy that should be at once adopted.
- 2. It would facilitate the treatment of these public forests as real estate expected to produce an annual crop—as capital from which a yearly income should be derived-and not as a source from which might be derived casual receipts to be treated as revenue, even though the property is alienated.
- 3. It would diminish the risk of fires spreading through our present forests or those to be planted-a risk against which it is very hard to guard under the ordinary method of clearing land-so long as agricultural settlements are interspersed with fcrest.
- 4. It would put an end to much of the divergence of interests, the disputes and contentions between settlers on wooded land and holders The lumberman of timber limits and licenses. need not intrude on the settler's lands or the settler upon the lumberman's limits.

5. It would provent settlers from being tempt ed to clear and expend their energies, time and money upon land that is poorly fitted for agriculture, and that would be far more economically and profitably devoted to the production of timber.

Without the adoption of some such system Onterio will soon experience the financial disadvantage of having a large portion of its capital, its forests, vanish for ever, to the impoverishment of the country, with nothing to show for the receipts that had been used to meet current expenditure. It will also exper-ionce the economic disadvantage of no longer having any timber to export or even for its own use, but will on the contrary have to import from abroad.

It is urgently necessary that our remaining forest should be reserved and in part renewed before it is too late, and we would invite thought ful consideration of the policy we have outlined. -Peterborough Review.

WASHINGTON TIMBER.

The Scattle, W. T., Post Intelligencer thus describes the timber of a locality in Washington Territory: "A man from Illinois, who recently visited the Quilento country with a party of land seekers, returned a day or two ago, and called to tell us what he found there desirable to seekers of government land. A number of little prairies were seen that for beauty and fertility cannot be excelled, while the bottom land is as rich as the best anywhere. Game and fish are also very abundant, so that a settler of very ordinary ability as a sportsman need not trouble about meats for his table. The timber, though, is the crowning glory of that country. It consists of fine maple, cedar, alder, fir, and spruce--principally the two latter varictics. Our informant saw great tracts of spruce that average four und a half feet in diameter, with trees here and there nine and 10 feet through. Trees rise 250 and 200 feet above the ground. Altogether, it is the best timber country he ever eaw or heard of, the only disadvantage to it, or depreciation of its value, being the absence of saw mills and local demand and the lack of an outlet to the trade abroad. A continuance of immigration there, however, will greatly change matters and appearances during the next two years.

NORTH OF LAKE SUPERIOR.

A reporter of the Ottawa Citizen has had an interview with Mr. H. J. Hubertus, an old journalist, who has been taking a trip on the C. P. R., north of Lake Superior. From the published account we take the following extracts:-

"Did you learn anything as to the extent of the timber district remaining?"

"No. Nothing definite, Still it must be enormous, as the headwaters of the streams emptying into the Ottawa and Lakes Nipissing satisfactory.

and Huron are not yet encreached on. Mr. Klock is making a raft of square timber near Veuve Station, and Mr. James Worthington is making two rafts of square timber at Sudbury Junction, for shipment by rail."

"Where do the Construction Company get their timber?"

"They have erected two portable steam mills west of the Sturgeon and saw the boards and dimension timber required. They own oak and other timber lands near there, and it is thought will also creet car works at Sturgeon Falls, where there is good water power."

"The country is all under timber license

along the line of railway. I believe?"
"Yes, along the stream emptying into Niplssing and French rivers. Worthington has the license of McKim township at Sudbury June tion. The licenses do not extend very far back,

"Will not this interfere with settlement?"

"I think not; rather otherwise. The timber will be cut, and the settler will work for the lumberman in the winter and on his own land in the summer, and all his farm produce will be immensoly valuable."

CHOICE LUMBER.

One of the choicest lots of lumber that has been brought to the Chicago market for many a month, and we might reasonably say year was seen upon the docks of Messrs. Cutlor, White & Boice. It had just been received from the mills of White, Friant & Co , Grand Haven, Michigan, and comprises upwards of a million feet which is running 75 per cent. better than common, Chicago yard grading. Fully 40 per cent of it is thick uppors, and 45 per cent is grading better than C. The lumber bears the "diamond o" brand adopted by the manufacturers and was sawed from Grand river stock, which, according to the timber statistic sharps, should be entirely played out. The rule was laid across any number of pieces of three-inch plank, from 21 to 28 inches wide, clear as a quill and handsome as a piece of rough lumber could well be. The lot contains a very desirable 14-inch stuff that is especially sought after in this market and altogether it ought to prove a veritable bonanza to its holders. They may he confidently assured of one thing, which is, that every inch of it will not only be wanted, but eagerly sought after before the saws that made it get half their next season's revolutions made. The yard of Messrs. Cutler, White & Boice presents altogether one of the finest and best selected stocks of lumber we have over seen in pile. The amount now in hand is about 9,000,000 feet, and so well arranged that an order for anything that enters into the construction of a building can be filled to the last stick without going off the premises for any of it.

Foresti Latel Flat.

BANGOR, Mo., Nov. 15. - The first reports of the damage by the gale gave but a slight idea of the have wrought. The calamity appears to be of great magnitude. The greatest damage appears to have been within a belt some miles wide crossing Piscatigins county and northern Penulscot into Aroostook. Great stretches of forest were levelled to the ground and . 'lions upon millions of valuable timber destroyed. Whole townships in some instances are said to be nearly flat. The loss is certainly several hundred thousand and one well known lumberman estimates the total damage throughout the state at a round million.

THE Cardiff correspondent of the Timber Trades Journal of Nov. 3, says :- This week we have again had a large number of arrivals with Canadian goods. A good many of the deal vessels, both from the Baltic and Canada, have had to wait four to six days in the reads before they could be admitted into dock, as our docks are so crammed, that it is even difficult for vessels to move in them. Of course this is very detrimental to the trade, and shipowners demand higher rates of freight than otherwise would be the case. Business is good; all our importers are very busy, both in receiving and delivering, and the prospects appear to be very

THE Madoc Review says :- Mr. Blountinforms us that Gilmour & Co.'s suspension of the past few weeks was only temporary, and they are again going on with work both at headquarters and in the woods. Large gangs have gone to the shantles during the past day or two, many mon having nover come out when work stopped, expecting to go to work again shortly. The firm's operations this year will be quite as large as usual. This will be very gratifying news. We regret, however, losing Mr. Blount and the company's office from Madoc, both of which will be severely felt.

E. S. VINDIN.

Commission, Shipping, Forwarding and General Agena

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

PRITCHARD & MINGARD GENERAL ENGRAVERS.

Stencil Plates, Steel Stamps, Rubber Stamps, &c.,

OTTAWA, ONT.

WHITE PINE BLOCKS

WANTED

For MATCH SPLINTS, 4 and 5 in. long by not less than 3 in. by 1 in., free from sap or knots, or plank for same. Quote price f. o. b. to

AGNEW & SCHULTZ TITUSVILLE, N. J., U. S.

A. & T. J. DARLING & Co.

TORONTO, ONT.

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

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FOR SALE.

For saving Lumber refuse, second hand, but all complete and in good order, taken out to replace one of greater capacity.

THE RATHBUN COMPANY.

DESERONIO, Ont

A week made at home by the industrions. Best business now before the public. Capital not needed. We will start you. Men, women, boys and girls wanted everywhere to work for us. Now is the time. You can work in spare time, or give your whole time to the business No other business will pay you rearly as well. No one can fall to make enormous pay, by engaging at once. Costly outfil and terms free. Money made fast, easily and honorably. Address TRUB & CO.. Augusta, Maine.



ST. LAWRENCE CANALS.

Notice to Contractors.

THE LETTING of the work at the upper entrance of the CORNWALL CANAL, and those at the upper entrance of the RAPHVE PLAT CANAL, advertised to take place on the 18th day of NOVEMBER next, are unavoidably postponed to the following deter-

dates:—
Tenders will be received until TUESDAY, the FOURTH day of December next.

Plans, specifications, &c., will be ready for examination at the places previously mentioned on and after TUESDAY, the TWENTIETH day of NOVEMBER.

For the works at the head of the Galops Canal tenders will be received until TUESDAY, the EIGHTEENTH day of DECEMBER. Plans and specifications, &c., can be seen at the places for mentioned on andafter TUESDAY, the FOURTH day of DECEMBER.

By order,

By order, A. P. BRADLEY, Secretary.

Department of Railways and Canals, t Ottawa, 20th October, 1888.

FOR SALE:

A LATH TRIMMER,

NBW, and in good order, will be sold Cheap. Address,

THE RATHBUN COMPANY, Descronto, Ont

SHINGLE MILL MACHINERY.

Parties requiring New Machinery for Shingle Mills, will do well to communicate with us before purchasing.

THE RATHBUN COMPANY,

DESERONTO, Ont.

WATER POWER

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

R. & G. STRICKLAND LAKEFIELD, ONT.

SAW MILL MACHINERY

FOR SALE.

STEEL AND IRON

Slabbing and Stock Gang Gates

WITH OSCILLATING MOTION, ALSO, -

IRON PITMANS, FLY WHEELS. Driving Pulleys, and other Saw Mill Machinery,

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

The RATHBUN COMPANY.

DESERONTO.

MACHINERY,

ENGINE, BOILER, ${
m ROTARY\ MILL,\ \&c..}$

St. Martins Manufacturing Co's Factory and Saw Mill at St. Martins.

A Waterous 80 H.P. Engine and Boilers, Rotary Saw Mill,

Saw Tables, Planors, Shafting, Hangers, Pulloys, Bolting, Lathes, Pumps, etc.

One Fleming & Sons' 50 H.P. Engine and Boiler,

Waterous Saw Mill, Daniel Planer, Band Saw, Planer and Matcher, Saw Tables, Shafting, Belting, etc.

If not sold en bloc by the 10th of October, will be sold in lots to suit purchasers.

CEM. Catalogues giving particulars of the Machinery, etc., can be find from the liquidators, or at the offices of W II OLIVE, No. 107 Prince William Street; T. BLAVIII & SUNO, 18 Ang Street, St. John, and W. di03 E. SKILLEN, St. Martins. 4121

FORESTS OF ONTARIO.

We continue our extracts from Mr. R. W. Phipp's report :

THE POSITION IN WHICH FORESTS WOLLD BEST REFECT THE ONTARIO CLIMATE.

To produce their best effect on climate, three points are to be observed. 1st. To occupy the heights, firstly that they are generally of poor land well spared for that purpose; secondly, that wooded elevations preserve rain, feed springs, and continuo water-courses in regular action. 2nd. They should be of considerable depth as well as length, as a thin line of forest will not by any means preserve the moist and humid atmosphere within their bounds on which their beneficial action depends. For such purposes, they should not, if it could be avoided, be less than a mile in depth from front to rear, and they had better be ten or twenty. To act as reservoirs of humidity they must be of fair extent, otherwise they will neither be able to feed the water-courses, nor to send unwards to the clouds those most currents which, it appears by all experiment, meeting with a differonly constituted atmosphere of the air, produce rain at those seasons when it is most needed. 3rd. If possible, such forests should stretch across Ontario in lines from northwest to southeast. They would then be in position profitably to intercept the southwest wind, which is the great bearer of moisture hither from the Gulf of Mexico and the tropical seas. For instance, as has been observed, the great forest northeast of Ontario does not bring much rain relatively to Ontario. Most of the rain a ferest obtains will fall northeast of that forest, The exceptions are when an east or northeast wind, meeting the southwest current, produces rain, and as sufficiently strong to carry before it the rain bringing current; but this is not to be depended on, the intention in endeavoring to preserve the forest in the line mentioned. being that the ascending currents shall meet and produce rain from the moisture-bearing winds, which are mostly southwest in reality, though often deflected and turned away by local or other influences. Of course it is not expected that Ontario can be mapped out in field and forest at this late day. But we can know in what direction to strive here, and where forest overspreads the whole country, as in part of our territory elsowhere, very much indeed can be done.

It must always, however, be remembered that east, and even northeast winds, can and do bring rain of their own force from the Atlantic direction. But the southwest wind is the chief rain bringer. The others may be called with reference to Untario, local. The southwest wind brings moisture to the whole northern hemisphere.

TREES BY THE ROADSIDE

Premiums have been very properly offered here, in a Bill just passed through Parliament, to these farmers who shall plant and maintain in growth certain descriptions of trees. The Bill refers principally to lines of trees set along the highway and the dividing lines of farms. These, or small plantations of any sort, are valuable, but by no means fulfil the func tions of deep belts of forest. Their great value is, if planted over sufficient sections of country, that they preserve the land from drying winds, and in that way, if they do not, as the forest does; bring rain, they preserve the effects of rain for a much longer period. Secondly, and a very important benefit indeed, they prevent the wind from drifting the snow off the fields they inclose, and the roads bordering them. Left evenly on the ground, the snow is a vast benefit to the soil and the coming or existing plant driven into great heaps by the wind, it not only injures both, but also renders transport over the roads difficult or impossible.

A WORD ON THE PRESENT AMOUNT OF FOREST IN ONTARIO.

It will be seen by the accompanying list that the state of Ontario, as regards possession of forest land, is as follows :- On the northeast she has a large forest, and in Muskoka and Georgian Bay District forests of some size. Those are all the Province possesses to feed the stroams, we may say, cast and northeast of Toronto, and they largely at present perform that function. But the whole great peninsula to the west is destitute of most of the original

forests on the clevated lands which gave her rivers water, and has little in the way of woods save the small reserves farmers have kept for themselves on their farms. As I pointed out proviously, those are being rapidly used; one after another they fade away from the land and are not replaced. The accompanying lists will show exactly the acreage under wood still left in each county, and when we remember that but a century ago all was forest, we shall be amazed at the rapidity of destruction; and, noticing how fast the small reserve is disappearing, we shall be quite convinced that in a very few years, unless remedial measures are successfully applied, the great peninsula of Ontario-out chief territory in a farming sense-will be to all intents and purposes a deforested land. And I may here owners the fallacy of the statement sometimes ventures, "Oh, we cannot be in want of forests, there are so many million acres in Untaria, and of them only so many are cleared!" May I ask what this has to do with the question! Neither the woods of Keewatin nor Muskoka can in any degree assist the farmers of the great Ontario peninsula, from Windsor on the west to Toronto and Collingwood on the oast. Nor will the small atches left on each farm assist them. They are too small and too isolated, and far too certain to vanish, to main tain the preportion of shaded land necessary for climatic influence. But these districts, it is said, give fair crops now. They do not yield so easily as once, nor is the sky so propitious now, as the careful investigations of Dr. Bryce and Prof. Dewey, some pages back show. But the great point is this, -they soon will, in all human calculations, suffer severely. Now, if the matter be commenced in time, we have yet space, before it Li too late, to carry out what all civilized countries have acknowledged the necessity of and are to-day engaged in,the work of making provision for a continuous forest area, and constant supply of merchantable timber.

Something can be done, and no doubt should bo dono, in certain parts of Ontario towards replanting our destroyed forests-destroyed in localities where forest, to improve climate and subservo agriculture, should especially be allow ed to remain. But the great opportunity which yet remains is that of preservation. This is found to be the case in India. The Government of that great country, expending yearly its hundreds of thousands of pounds sterling for preservation and replanting, has not yet planted a hundred thousand acres, while it has im proved, is improving, and has to a very great extent, already changed for the better, the charactor of many millions of acres of forest land If we pass through much of the forest which Ontario still retains in governmental hands, we shall find, here and there, many a large expanse desolated by fire and growing up again, a brushwood cheking itself to uselessness, covering a burnt and impoverished soil. We shall find great areas of forest the lumbermen have culled of pine and spruce, of ash and oak. Every here and there are the relies of their operations the close hown stump, and, a goodly distance

therefrom, the great pile of decaying branches where the head of the tree had fallen; while the whole distance between, if round timber had been got out, shows nothing but a few scattered side limbs, but if square it is paved with immense pine fragments-short thick slabs whose doep clean cut show the force of the scorehacker's arm, and long lengths of those peculiar chips, slightly connected, thin and broad, smooth on one side, the depth and straightness of which show how deftly the the handler of the broad-axe has plied his unwieldy tool; and if you come near the stump, and it has been heavy timber squared for the English market, you will find in great masses, hown off, thrown c cay and rotting, as much clear timber 'as, sold at Toronto prices, would go far towards the whole sum the lumberman will ever get for the log. The piles of debris are everywhere, and form a most inflammable portion of the touchwood of a forest. Then

ghastly relice of mortality on a forgotten battlefield, cumber the forcet floor.

You will find many places where trees are choking one another for want of air and light, until in lapse of years some stronger one will tower above their fellows. You will find places where hurricanes have cut their way through the forest, and the trees lie for miles, as the ranks mown down by the mitrallieuse. You will pass the solitary bush road, the trees which once grow-therein chopped right and left into the forest by the makers of the track, where they lie in a dry heap for miles on miles, forming as pretty a fire track as one could wish to And everywhere you will find millions of of young trees giving full promise, if spared axe and fire, of becoming trees as sturdy as any the lumberman has carried away, but nover theless, the impression produced on you by the whole pilgrimage will be that, if no presentive measures be used, the fire which has taken so much already will sooner or later take the rest. When one compares the state of our forests with that of those in some parts of Europe, and thinks of tue long avenues of fire breaks, the forest-rangers on the watch, the careful management, the incessant thinning and replanting, the long succession of goodly trees yearly ready tor the axe, and the certainty, with equal care, of such a succession for all time to come, one is apt to think it full time that some such system were introduced here.

BAVAGES OF FIRE.

To show what loss is being incurred by the fires which run through our forests, let us take up the report of the Commissioner of Crown Lands for 1882. There are 9 reports of surveys. Let us see what they say in succession :-

TIMBER BERTHS NORTH OF FRENCH RIVER. -The greater part of my line passed through a burnt country, the fire having gone over some parts a second time. Over this burnt country all the timber has been killed."

"Township of Dunner.-Over one-half of this township has been burnt."

"TOWNSHIP OF HUGEL.—The greater portion of this township has been overrun by fire and the timber destroyed."

"TOWNSHIP OF RATTEL-About one-sixth of the township has been burnt over, all the timber being destroyed by fire."

"Township of Kirkpatrick.-Nearly the whole of the township has been burnt over."

"TOWNSHIP OF HAGAR.—Bush fires have destroyed nearly all the timber."

"TOWNSHIP OF FIRLD.-No mention of fire."

"Township of Dryden.-The greater pertion of the timber has been destroyed by

"TOWNSHIP OF WILKES .- Not injured by fire."

In last year's report, out of fifteen surveyor's statements eleven speak of the ravages of fire. THE PINE LUMBER BEMAINING.

The latest opinions of value procurable on this head are perhaps those given by Messra. Drummond, Little, and others who have studied this subject, at the last year's Forestry Maine and Michigan were men-Convention. tioned. At Bangor, long famed for vast lumber mills, only fourteen million feet were procurable in 1877, against over one hundred million in 1850. The whole Saginaw valley, Michigan, the very home of the lumber trade, is nearly culled. What this means may be imagined when we learn that it has been cutting with mills of six hundred million feet capacity. Their lumber journals declare that in all Mich igan, Wisconsin and Minnesota-the western pine States, there is not ten years' supply with the present demand. We may, I think, consider that the demand is likely to increase perhaps to double. With this, and especially if they have a recurrence of their terrible fires, there may not be five years' supply. ing Ontario, we are told that Mr. Little has consulted the best authorities, and is persuaded that in Canada (5,000, Quebec; 3,500 Ontario; N. B. and N. S. 1,500) we have but ten thousportion of the touchwood of a forest. Then before the strong oxen could drag the great log to the river down which it had to be floated an avenue of smaller trees had sometimes to be cleared from the way, and these likewise piled in desicating heaps, their skelten branches protections are made at the same further on, and we may well doubt whether we truding among the green undergrowth, like the same five years' supply. In Newfoundland Liver and Kidneys,

there is little good pine left. It must be noted that a well known lumberman, Mr. J. K. Wood, puts the amount manufactured yearly in Canada at nearly two thousand million feet, adding to pine spruce and other woods. If we count the pine timber remaining in the States, we shall find that, after Michigan, Minnesota, and Wisconsin are exhausted, say in seven years, there will probably be twice as much, say fourteen years' supply in the other States, such as the large and slowly decreasing forests still standing in Arkansas, Louisians, and California.

In view of these facts, let us observe what will, in a few years, be our position in Untario, or even in Canada. We have but between five and ten years' supply. The American have their Southern and Pacific Sta' as a reserve, where, though at great cost of carriage, they may obtain pine. But Ontario has no such reserve. In a few years we shall have but some districts of woodland to our north and northeast, culled of their best pine, and alternated with great sections tover which the fire has swept, while the rest but wait for it to arrive, that the destruction may be complete. At one of the late forestry congentions, Mr. Thistle, a lumibornan and surveyor, gave it as his decided opinion that ton times as much lumber was des troyed by fire as by the axe. Let us carry this to its conclusion. We have been exporting perhaps twenty million of dollars worth yearly. What if we have been losing two hundred millions? Is it not time-would it not pay fiftyfold-would it not still pay-to give the care to preserve our forests that Europeans give theirs? It was thought that this was a wooded country, and that there was no such danger. I would ask my readers to study the descriptions of European forestry in other of these pages. They will not be able to avoid the conclusion that, in a few years, Germany, Prussia, and other European countries will be better wooded than Canada. We will glance a moment at what is told us of the forest when the lumbermen have culled it. Here is one description by Mr. Ward, a Canadian lumberman :-"To the uninitiated traveller through the woods, after the shantymen have taken all they think worth taking, he would hardly notice the chopper had been there, except for seeing an occasional stump, a few chips, or the top of a tree." Now we will take another, Mr. Smith, in the "Flora of Michigan":-"The valuable trees were felled years ago, and the lumbermen moved on to fresh spoils, leaving behind an inextricably confused mass of treetops, broken logs, and uprooted trunks. Blackberry canes sprang up everywhere, forming a tangled thicket, and a few scattering poplar, birch, and cherry trees serve for aboreal life, above which tower the dead pines, bleached in the weather, and blackened by fire, destitute of limbs, and looking at a distance not unlike the masts of some great harbor. Thousands of such acres, ropellant alike to botanist and to settler, can be found in any of our northern countries." What we had better conclude, I fancy, concerning the difference between the two, is that the second had undergone a second and yet sharper and more reckless culling, after it had passed the stage described by Mr. Ward. It is evident that the time has passed when it was a matter of choice to attend to forest preservation in Ontario. If we are to rotain any, it is now au affair of immediate necessity. In fine, if we wait longer, our forests will be

gone, and can then not be renewed, except at the vast expense of time and money required in nlanting.

If we move energetically now, we can preervo great forests, the maintenance of which is most necessary to our prosperity, and shall also have time to plant, where no other means exist.

FOR a hard cold, with pain in the head, bones, or through the chest, take Downs' ELIXIR, at once and in liberal doses, cover up well in bed, and our word for it, you will soon bo well.

THE OTTAWA VALLEY OUT.

In summing up the lumber trade of last year it was said to exceed by far that of any previous season. This was caused by the early breaking up of the ice, stendy flow of water, brisk domand and long open season. This supplied the mill owners with plenty of water and opportunity to get their logs down, which was all they wanted for a good season's harvest. Favorable as last your was, it was hardly more so that this, though the season opened a little later in '83 than the previous season. Since last year, only one serious inisfortune has occured; viz. the burning of Messrs. Gilmour & Co.'s stonm saw mill, accross the river, on the evening of the 8th of August last. By this confingration the firm lost directly in the neighborhood of \$125,000, partly covered by maurance, and in addition to this large amount have lost ten weeks of their season s cut. To counter balance, in this advance, as it were, extensive improvements have been made. Mr. E. B. Eddy, whose establishments were burnt on the 3rd of November 1882, has rebuilt on a grander scale and can if he chooses double his last year's capacity. Messrs. Bronson & Weston built a new dam during the winter and made other valuable improvements. Messrs. Sherman, Lord and Hurdman erectedfanother mill, and have doubled their capacity, white all other mill-owners added more or less to the working arrangements of their mills, The demand for lumber has been somewhat duller than last, year though a larger quantity has been shipped. The piling ground has been extended and at the present time there is more lumber in the city and suburbs than at any previous time. Below will be found estimates of the year's cut by the principal mills in this vicinity, the figures being obtained after diligent search by a reporter of this paper among those who have a good opportunity of knowing the state of the trade:
Sherman, Lord & Hurdman's mill, Hull.... 35,000,000

E. B. Eddy's, Hull...... 89 ^00,000 60, 100 55,000,000 Bronson & Weston's, Ottawa J R. Booth, Ottawa. Perley & Pattee Ottawa..... 40,000,000 Capt. Young. Ottawa...... 20,000,000 Rochestor's, Ottawa..... McLaren's, New Edinburgh. 20,000,000 McClymonte, New Edinburgh..... 25,000,000 40,000,000 35,000,000 Allan Grant's South Shoro..... 10,000,000 McLaron's Carleton Piace..... 30,000,000 McLaughlin Bros. Amprior..... 80,000,000 Gillies Bros. Bracside...... 85,000,000 W. O. Edwards & Co. Rockland 50,000,000 McLaren & Co..... 65,000,000 Gilmour's Gatmeau Mill..... 25,000,000 Hillman's Rock Cliff..... 4,000,000

.. 747,000,000 There are a number of other mills, whose cut could not be accurately estimated, but with the cut will doubtless equal that of last year which was estimated at 800,000,000 feet. The estimate on an average is probably lower than the actual figures, and as none of the mills have stopped running yet the quantity at the close of the season, may be much larger, as the mills cut 30,000,000 per week. In last year's estimate the production of the North Nation mill was given as 25,000,000. During the winter this mill was demolished, Mr. Edwards having decided to work the Rockland mills only .- Free Press.

The Coming Forestry Exhibition.

The regulations of the Forestry Exhibition to be held at Edinburgh next year state that the exhibition is intended to include everything connected with, or illustrative of, the forest products of the world, and that it will be open to exhibitors from all countries; that the entries will close on the 1st of March, 1884, and that exhibitors will be charged Is. per square foot of floor space. Arrangements will be made by the committee for the reception of exhibits at a date to be fixed, but all fulminating and explosive substances all dangerous materials will be absolutely forbidden to be sent. Medals, money prizes, and deplimas for exhibits and essays will be awarded by competent jourors. Contributors to the loan department are requested to communicate with the secretary Mr. G. Cadwell, 3, George IV. Bridge, Edinburgh, who will supply special forms to be filled up, The committee, it is further stated, will endure.

deavor to obtain from the various British rail-

St. John, N. M.

The News says :- From information of a reliable character at the News command, it would appear that the lumber harvest for the present season will not exceed 225,000,000 a falling off of fully 333 per cent from the usual The above quantity is made up as follows: Upper St. John 15,000,000; Aroustook 40,000,000; Tobique, Meduxnakeag and other streams, 25,000,000; Nashwaak 20,000,000; St. Croix, 15,000,000; Bay of Fundy, 12,000,000; Miramichi (N.W. & S.W. branches), 80,000,000; scattering lots on north shore, 18, 000,000. Total, 225,000,000 Last season, 358, 000,000 comprised the total output. In 1874, 389,000,000 of spruce were cut in this Province and Armstock, Maine, townships, which was almost entirely handled by provincial operators who in recent years have almost monopolized the rich Arosstock log areas.

Joinery in New South Wales.

There are in this colony, says a contemporary, soveral large joinery works, fitted with the best labor-saving machinery and the most modern appliances used in the trade. The establishmanis of Messrs, Hudson Bros., Mossrs, Goodlet & Smith, and Mr. John Booth, at Sydney, employ a large number of hands to meet the requirements of the colonial contractors. At Mosers. Goodlet & Smith's establishment about 100,000 feet of timber are sawn weekly, ninetenths of which consist of colonial hardwood, codar, beech and pine. Nearly every sort of building materials is manutactured by the firm. They have two large potteries, where sowage pipes from 3 in. to 24 in. in diameter, building and paving brick, and all descriptions of atonoware are made. The total number of saw mills, &c., rose from 112 in 1871 to 213 in 1880.

Submerged Forests.

The Mississippi river runs through a delta of made soil from Cairo to the mouth, 180 miles belot. New Orleans. This has all been formed by deposits of silt, or soil from the upper rivers, Close geological explorations disclose the fact that for hundreds of-miles through these deposits, immense forest trees are buried, one over the other, with interspaces of sand. Ten distinct forest growths have thus been observed which it is thought have succeeded one another. Of those known as the baldheaded cypress, some have been found more than 25 feet in diameter. One contained 5,700 rings. In other cases huge trees have grown over the stumps of others exactly as large. Taking these facts for data, the antiquity of the whole is estimated at 100, 000 years, or an age of ten thousand years for each forest .- Lumber World.

On Thirty Days Trial.

The Voltaic Belt Co., Marshall, Mich., wil send Dr. Dye's Celebrated Electro-Voltaic Belts and Electric Appliances on trial for thirty days to men (young or old) who are afflicted with nervous debility, lost vitality and kindred troubles, guaranteeing speedy and completerestoration of health and manly vigor. Address as above.—N.B.—No risk is incurred, as thirty days' trial is allowed.

Another Witness.—A. Chard, of Sterling, testifies to the efficacy of Hagyard's Yellow Oil, which he used for a badly injured knee joint. It is now the great household remedy for inflammation, pain, soreness, lameness, otc., and is used both internally and externally with infallible processes.

A Wrong Opinion.—Many a dollar is paid for prescriptions for some disease that never troubled the patient, and when the selo difficulty was worms, which a few of Freeman's Worm Powders would remove. Those Powders are pleasant, safe and sure, contain their own cathartic, and are adapted for children or adults.

way companies special terms for the conveyance of exhibits to and from the exhibition, and such arrangements as will be duly intimated to to exhibitors. National Manufacturing Co.

160 Sparks Street, Ottawa,

MANUFACTURERS OF



TENTS! Camp Furniture and Hosiery.

OUR GOODS ARE THE BEST IN THE WORLD!

Four Gold and Silver Medals and Thirty-two First Prizes at the Toronto and Guelph Exhibitions, 1883.

Highest Awards at Sydney, New South Wales: Exhibition. June, 1883.



Lumbermen's Tents

A SPECIALTY!

At Prices Lower than ever before.

HEAVY SOCKS

Our own make, and at Prices Very Low!

SHANTY BLANKETS

IN GREAT VARIETY.

Liberal Discount to Large Buyers. Send for Catalogue.

National Manufacturing Co.

160 Sparks Street, Ottawa.

P. O. BOX 845

Market Reports.

TOPOSTO.

From Our Own Correspondent

Nov. 23.-The lumber trade in this city is at the present time exceedingly dull, at the retail yards men and horses standing idle, and, as a necessary consequence, wholesale dealers are in about the same depressed condition. Retail men say, as a matter of course, as we are unable to sell it is useless to buy, and by the time the plasterers' union and the masters come to an arrangement the winter will have settled the difficulty for them, so far as this season's work is concerned. There are still some shipments being made from the docks, which may, if the weather keeps fine, continue to the end of the month. I will then endeavor to give you the total amount of shipments for the season or as near as it is possible to collect them.

The amount of lumber arriving by rail is quite small and the roads dependent on the lumber trathe for a large portion of their earnings will make a poor showing for the remaining portion of the year, and before the end of the coming year, 1884, I venture to predict, without laying claim to the title of prophet, that the petty question of charging one dollar for shunting cars to the various sidings within the city limits, will be overlooked by the more serious and imperative considerations of how to make both ends meet. The mileage made as lumber earnings by the roads mainly dependent on that industry have not come nearly up to the expectations formed at the commencement of the season, so that some idea may be easily formed as to the result of next season's carnings now that the banks have declined to advance to mill men to comble them to stock up for the next season's cutting. The number of manufacturers who are able stock up independently from outside assistance are extremely small, and north of this place the largest operators have their mills situated in positions where the water routes come into competition with the rail traffic and the wants of the western trade will be mainly filled by the water routes from the places indicated. Through overgrasping the railway companies have lost the bulk of this western trade never to return again. Now to come to the small operators, denied that assistance from the banks extended to them in former years, they can only produce to a limited extent, and, in numerous cases, not at all, so that the amount of decrease in the lumber carrying trade for the season of 1884 may be safely set down as not less than 50 per cent of that of the present year. This may be a blessing in disguise, time alone can determine that,

Prices at the yards are nominally the same at all events so far no cutting in figures that would justify me in altering previous quotations:

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MONTREAL

From Our Own Correspondent

Nov. 21.-As the cullness consequent upon the coming of winter is again upon us, business has been protty slow for the past two weeks. Anvigation is now closed for this year and suring. During the year business has not been

years, for, although a good deal of lumber has been moved, prices have not left so much margin. We have again to notice an advance in the price of laths, which are solling at \$2.00, but \$2.25 is expected to be the price in future. The work on the new lumber basins on the canal has coased for the season. In order to facilitate business the G. T. R. Co. are thinking of bringing their track down William street in front of the new basins, which will be of immense benefit to the lumber trade. With the exception of laths our quotations ex yard are unchanged :-

Pine, 1st quality, 3 M	:35	1000	40	00
P no, 2nd " 3 M	22	0000	24	ÕÕ
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Pine, 4th quality deals, & M	ĭĭ	0068	12	ÕÕ
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Hemlock, V M				
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Butternut, ♥ M		00(4		
Birch, V M		000		
Hard Maple, B M	25	00 (g)	30	00
Lath. 3 M	-2	00Œ	7	00
Shingles, 1st, 31 M	3	000		
Shingles, 2nd, VM	2	2003		
CORDWOOD.				Ì

The weather for the past two weeks has been very mild and there has been very little demand for wood, but prices, though unchanged, are

urly, and are quoted ox cartage as under :		
Long Maple\$	6	0
Short "	5	ы
Long Birch	5	6
Long Beech	5	0
Tamarack	5	ò
SHIPMENTS.		

The shipping season is now over and we expected to have been able to give the totals of shipments both to South America and Britain, the latter we cannot give till next report. The exports by the Export Lumber Co. from the St. Lawrence to the River Platte during 1883 were as follows:-

Pine 2.12.439.647

ı	Spruce	•
	Total 1883	fix
;	1882. 29,419,827 1831. 10,147,041	***
1	1350	••
	1579	**
	1 1870 3.437.000	• •
	1876	44
1	1573	41
1	1971	**
١	LIVERPOOL MARKET.	

The consumptive demand for the month of October was considered satisfactory, but great caution is recommended on the part of shippers here, owing to the shadow hanging over the political atmosphere. Spruce deals from St. John, N. B., sold at 26 15s. per standard, ex quay, and it ome instances a little more was obtained. The following are quotations for Quebec pino deals, &c. DEALS.

MESKOKA.

Nov. 14.—The weather in this district has been very wet for some time past. Smith river is much higher now than it was last spring, and is a very great hindrance to improvements in the rapids and shoots of that stream.

Mr. David Moorn has a gang at work here who seem to progress notwithstanding the great floods.

There is a considerable amount of lumbering carried on hore. Mr. W. Allen is getting out a large raft of square timber, and he has now two shanties at saw logs. He will fill the river himself. He cuts his lumber in the township of Hemsworth. Mr. P. H. Colton is a piece further up the raverin Laurier, cutting and making square timber, which promises to be a superior articla

Mr. David Moore is getting out a raft in the Township of Gurd, which no doubt will be a largo one. The Mesers, McLean are entung logs still further up, also Mesers, Screeny and Fraser at waw logs, and a concern from the Georgian Bay, the Boyd Bros are making a nothing but a retail trade is looked for till great raid on the pine up South River. There is scarcely any red pine in this locality. Setand commencing a life amongst the maples. In | lake to come forward, and were counting on a some places here they have to build the walls of their house with maple, for want of small pine or any other sort of soft wood. Snow fell yes torday and last night about eight inches, which will probably compel the runners to take the place of wheels and will be a godsend to the horses of this country.—Ottawa Free Press.

ALBANY.

Quotations at the yards are as follows:-

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" oxtra, sawed, pine	0 1	00.co	6	w l
oxtra, sawed, pine	0 1	00(¢	3 :	50 I
" codar, mixed	0 (00@	3 :	50
" codar, XXX	0 ((400	4 (ωį
" hemlock		(§)00		50 J
Lath, hemlock, 3 M	0 6	MO((0)	2 :	25
Lath, spruce, "	0 (9000	2 8	50
		-		- 1
				- 1

BOSTON.

Cotton, Wool and Iron of Nov. 24, says :-There is no particular change in the market, but a little full is noticeable, probably preparatory to arranging business on a winter basis. Arrivals at the reads have been large in view of the advance in freights, but mainly it is believed on orders, Western pine of medium and choice grades holds steadily, with dry stock quite firm. Eastern lumber is steady and in fair demand! Southern pine moves along at just about previous prices, with orders mainly for small lots. Good desirable walnut sells quite well, as does also ash. Whitewood moves slow, ly, with an over supply. Oak is rather dull. Really choice select cherry finds a ready market, Clear maple for flooring is in request. Clap-boards are going well. Laths continue pretty firm as yet, but the supply is improving.

CANADA PINE.		
Selects, Dressed	00@50	00
Shelving, Dressed, 1sts	00::35	00
Dressed Shippers	00@20	8
Sheathing, 1st quality	006320	8
" 2nd " 31	00(435	00

BUIFALU.		
We quote cargo lots:-		
Unners	00/048	00
Uppers	000492	8
Culls	00/415	ŎÖ
	,	

CHICAGO.

The Northwestern Lumber man of Nov. 24th says :- The sudden termination of active ship ping operations on the lakes, consequent on the disastrous gales last week and the week before, has given a quiet-appearance to the market docks the present week. The total of cargo arrivals for the week ended Wednesday was but 64, the larger proportion of which went directly to the yards. The lumber coming to the market has been largely inch stuff, mostly green, and has sold at prices a shade stiffer than values prevalent solore the great blow. There has been nothing like an assortment offered and few buyers could get what they wanted, and purchases have been made by those who needed what was offered to patch out stocks for the winter, and have been willing to forego ansisting on concessions for the sake of getting the lumber. The season is acknowledged to be closing. Not much more lumber will be offered on the market, and dealers who lack anything in stock will have some difficulty in laying it considered satisfactory and not equal to last there are still showing in from the ontside world, down. A number have dry lumber over the of this neighborhood continues in a languid

continuance of navigation season to get it over hore, and now find themselves in rather bad shape. The demand for dry common stock is so active, and it is generally so meagre in supply, that the difficulty of procuring vessels to bring over the little remaining at east shore ports in likely to be see 18ly felt.

Quotations are as follows:	•	
Short dimension, green)
Long dimension, green	0.60/311.00	
Boards and strips—No. 2 Boards and strips—Medium	10 50@12 60	•
Boards and strips-Medium	13 00((16 00)
Bounds and strips-No. 1	16 00(421 00	,
bhingles, standard	2 0064 2 10)
Extra A	2 20@ 2 60	•
Extra ALath	T 05@ 1 75	,
Receipts of humber, shi		

Receipts of lumber, shingles, etc., for the

week enaing .	NOV. 22,	as report	ea by the
Lumberm 's E	xchango :	_	-
		ΩZ	CEIPTS.
			r. Shingles.
1883		21.857.000	11.755.000
1882		62,958,000	32,033,000
PROM JANUARY 1, 1	853, TO NOV	MBER 22, 188	3, inclusive.
		RECEIP	
		Laimber.	Shingles.
1883	1	764 401 000 1	187 647 000
1832		000 000 000	045 749 000
2002	•••••	.,000,000,000	200,110,000
Increase			231,599,000
Decrease	•••••	226,418,000	201,000,000
81	iock on han	O NOV. 1.	
	1883.	1882.	1831.
Lumber	65.047.082	706,652,450	699,525,483
Shingles S	359,972,616	278,163,160	249,900,400
Lath	83,359,413	63,627,227	44 .156,792
Pickets	2,610,162	3,079,430	2,809,070
Cedar posts	781.571	160 835	211,297

OSWEGO, N. Y. From Our Own Correspondent.

The receipts of lumber since our last have been very light, lake rates having advanced beyond the views of dealers. Vessels are now fully occupied in the grain trade. Canal shipments have about ceased. Sales have been very light for the past week; collections have been good. The stock is ample for winter trade and holders are firm at the prices named in our quotations. Receipts for 1883, 180,000,000 feet, for 1882, 207,000,000 feet.

	Three uppers	\$45	00@46	00
	Pickings	35	006/38	00
	Fine, common	20	00(425	00
•	Common	14	00(417	0Ŏ
	Cuils	11	00(g15	00
	31ill run lots	15	00(320	00
	Sidings, selected, 1 inch	30	00@35	œ
	1} inch	ಌ೦	000136	00
	Mill run, 1x10, 12 inch	18	00@20	00
	selected	2-2	00/326	00
	Shippers	14	00(ct17	00
	Strips, 1 and 13 Inch mill run	24	00(418	00
	Cults	ıυ	00@13	00
ı	1XG selected for clapboards	22	00@35	00
ì	Shingles, XXX, 18 inch, pine	4	00@4	60
J	XXX, 18 inch, cedar	3	2500 3	50
ï	Lath	2,	0000 2	20

TONAWANDA.

CARGO LOTS-SAGINAW INSPECTION.

i	Three uppers	00/346 00
ı	Common 18	00324 00
1	Culls 12	00/314 00
И		

LEITH.

The Timber Trades Journal of Nov. 10, says: The only arrival of importance during the past week is the Nicksburg, from Quebec, for Messrs. Park, Dobson & Co., with an assorted cargo of wancy yollow pine and-American hardwoods. This will be the only importation of American goods to this market during the autumn, thus showing that the demand for wancy yellow pine in this district is light, though, of course, it must be taken into consideration that pitch pine is in many instances used where previously nothing but wancy pine was put in. No sales by public auction have taken place during the past week; several, however, may be expected about the end of the month. The demand for Baltic goods is fair and prices are being maintained.

LIVERPOOL.

The Timber Trades Journal of Nov. 10, says: The import during the past week has again been moderate, and the quays are beginning to wear a bare aspect compared with the busy and vercrowded condition which they have shown for some time. The deliveries appear to be large, and this points to an amount of business doing that can only be characterized as being large, at the same time it is very doubtful whether much of it is of a profitable nature to the

Prices of all kinds of goods remain unchanged, which may be attributed to the fact that the unsatisfactory state of the staple manufactures

condition, and honce the consumers are inclined. to go on purchasing only for their immediate wants, so long as the market here remains in its present stoady position, rather than lay in stocks and held them, with their accumulating chargeof interest, rent, and other expenses.

Spruce deals show no further advance in price, at the same time shippers appear to have confidence in the future, and are looking forward to an increase in prices.

On Wednesday Messrs. James Smith & Co. offered by auction a cargo of Bathurst pine and spruce deals now landing, and a cargo of sawn pitch pine timber and planks about now due, together with sundry other parcels of wood

The attendance of buyers was very meagre and there was no bid for any portion of the deals in the former cargo, only a few spruce deal ends being sold at £5 7s. 6d., and pine deal ends at £5 per standard, and of the pitch pine cargo only about twelve lets found buyers at from 151d. to 171d. per foot.

GLASGOW.

The Timber Trades Journal of Nov. 10 says Transactions during the past week by public auction have been to a fair extent, as will be observed from the statement under noted. As the sale on the first inst. (Messis, Edmiston & Mitchells, brokers) a good company was met, and a large quantity of square timber and deals changed hands, a portion of the catalonge being exposed without reserve.

With reference to the American pine wood trade it is to be noted that stocks are certainly accumulating, and prices, over all are rather lower. Deck plank wood is not moving off so freely, as fower new shipbuilding contracts are being made now in this district.

On 1st Nov., at Greenock, Messrs. Edmiston

& Mitchells, brokers:-	
Quebeo waney boardwood-	Per cub ft
59 c ft av per log	ls Gd
Do yellow pine timber	
45 c ft av per log	18 4d & 18 4]d
Do red pine-	
_ 47 & 67 "	18 5d & 18 Gd
Do oak	0. 71
90	2s 5d
Do clm—	28 21
30 to 40 "	18 &l & 18 9d
Do sah—	15 54 & 15 54
35 "	2s 2d
19 "	ls 10d
Sawn pitch pine-	
35 c ft av per log	1s 3d
30 "	1s 2Jd
The following goods without	PARAMETER 1
Ziio toiloitiik kooda mimoda	icitive.—
Quebec wancy boardwood	
Quebec wancy boardwood 37 to 59 o it av per log	25 0]d to 25 2]d
Quebec wancy boardwood 37 to 69 o it av per log Quebec 3rd spruce deals	2s 0]d to 2s 2]d
Quebec wancy boardwood— 37 to £9 of t av per log Quebec 3rd spruce deals— 13 & 14 it 9×3	2s 0]d to 2s 2]d 10}d & 11d.
Quebec wancy boardwood— 37 to 69 o ft av per log Quebec 3rd spruce decis— 13 & 14 ft 9×3 10 " 11 " 9×3	2s 0]d to 2s 2]d 10}d & 11d. 9]d " 10d.
Quebec wancy boardwood— 37 to £9 o ft av per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 " 11 " 9×5 10 " 18 " 7/11×3	2s 0]d to 2s 2]d 10}d & 11d.
Quebec wancy boardwood— 37 to £9 of t av per log Quebec 3rd spruce deals— 13 & 16 ft 9×3 10 "11" 9×3 10 "18" 7/11×3 Do 3rd spruce deal ends—	2s 0]d to 2s 2]d 103d & 11d. 9]d " 10d. 8]d " 9d
Quebec wancy boardwood— 37 to 69 o ft av per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11" 9×3 10 "18" 7/11×3 Do 3rd spruce deal ends— 6 to .9 ft 6/9×3	2s 0]d to 2s 2]d 10}d & 11d. 9]d " 10d.
Quebec wancy boardwood— 37 to £9 of tav per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11" 9×3 10 "18" 7/11×3 Do 3rd spruce deal ends— 0 to .9 ft 6/9×3 Do, 4th spruce deals—	2s 0]d to 2s 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 7]d
Quebec wancy boardwood— 37 to 59 of tay per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11" 9×3 10 "18" 7/11×3 Do 3rd spruce deal ends— 0 to 0 ft 6/9×3 Do, 4th spruce deals— 12 ft 9×3	2s 0]d to 2s 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 7]d
Quebec wancy boardwood— 37 to £9 of it av per log Quebec 3rd spruce deals— 13 & 14 it 9×3 10 "11 " 9×3 10 "18 " 7/11×3 Do 3rd spruce deal ends— 6 to .9 it 6/9×3 Do, 4th spruce deals— 12 it 9×3 10 to 14 it 7/13×3	25 0]d to 25 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 73d 93d & 9]d
Quebec wancy boardwood— 37 to £9 of t av per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11" 9×3 10 "18" 7/11×3 Do 3rd spruce deal ends— 6 to 9 ft 6/9×3 Do, 4th spruce deals— 12 ft 9×3 10 to 14 ft 7/13×3 12" 6/9×3	2s 0]d to 2s 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 7]d
Quebec wancy boardwood— 37 to 69 of t av per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11 " 9×3 10 "18 " 7/11×3 Do 3rd spruce deal ends— 0 to .9 ft 6/9×3 Do. 4th spruce deals— 12 ft 9×3 10 to 14 ft 7/13×3 10 to 14 ft 7/13×3 Do, 4th spruce deal ends—	2s 0]d to 2s 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 73d 93d & 9]d 83d
Quebec wancy boardwood— 37 to £9 of t av jer log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11 "9×3 10 "18 "7/11×3 Do 3rd spruce deal ends— 6 to 9 ft 6/9×3 Do, 4th spruce deals— 12 ft 9×3 10 to 14 ft 7/13×3 12 "6/9×3 Do, 4th spruce deal ends— 6 to 8 ft 6/9×3	25 0]d to 25 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 73d 93d & 9]d
Quebec wancy boardwood— 37 to £9 of t av per log Quebec 3rd spruce deals— 13 & 14 it 9×3 10 "11 " 9×3 10 "18 " 7/11×3 Do 3rd spruce deal ends— 0 to 9 ft 6/9×3 Do, 4th spruce deal ends— 12 ft 0×3 10 to 14 it 7/13×3 12 " 6/9×3 Do, 4th spruce deal ends— 0 to 3 it 6/9×3 Do, 4th pruce deal ends— 0 to 3 it 6/9×3 Do 4th plne deals— 10 to 18 it 6/21×3	2s 0]d to 2s 2]d 103d & 11d. 9]d ** 10d. 8]d ** 9d 7d & 73d 93d & 9]d 83d
Quebec wancy boardwood— 37 to £9 of t av per log Quebec 3rd spruce deals— 13 & 14 ft 9×3 10 "11" 9×3 10 "18" 7/11×3 Do 3rd spruce deal ends— 0 to .9 ft 6/9×3 Do. 4th spruce deals— 12 ft 0×3 12 "6/9×3 Do. 4th spruce deal ends— 0 to 8 ft 6/9×3 Do. 4th spruce deal ends— 0 to 8 ft 6/9×3 Do. 4th plue deals— 0 to 10 ft 6/9×3 Do. 4th plue deals— 0 to 10 ft 6/9×3	2s 0jd to 2s 2jd 10jd & 11d. 9jd ** 10d. 8jd ** 9d 7d & 7jd 0jd & 0jd 8jd 7jd & 7jd

On 6th Nov., at Glasgow, Messra. Edmiston & Mitchells offered some States black walnut. and sold a few lots (av. square 157 in.) at 3s. 10d. to 4s. 3d. per cubic foot.

LONDON.

The Timber Trades Journal of Nov. 10, says: The tone of the timber market is undoubtedly bolder than it was a short time ago. People give a favorable opinion of the future without fear of being heard with ancers or met with smiles, for the belief is becoming pretty general that affairs are mostly on the mend. If they do not actually advance, the time for making concessions in prices has evidently passed, and those who hold good stocks can sooner or later depend on getting their price, if they do not look too high.

No attempts on the Stock Exchange seem to succeed in making money dearer, and when this latter commedity is cheap trade ought to flourish. Neither is there any excess of imported timber as yet in the country to make its weight folt. The supply has been plentiful, but so have the deliveries to the consumers, and few scazons have perhaps shown a steadier demand throughout than that which is now hastening to its close. There has been a good deal of bad business doing among builders, and the suspension of some large firms has stayed the hands of \$75,000. The other losses are unknown.

many smaller ones, which reflected unfavorably on the timber merchants, but there has been s much good and legitimate business done that the other was only a drag on the wheels of the

THE AUSTRALIAN TRADE.

Messrs. N. Roberts & Co.'s report on the timber trade of Molbourne, just received, under date September the 19th, says :- Timber continues very dull, and we have no hope of au improvement unless shipments should prove to be very moderate indeed.

The arrivals of flooring boards have been excessive, and as importers show no inclination to hold, prices are declining. Red deals .- Imports "nil." The cargo ex Monarch, which has been in store for six months, was sold on 10 inst. by auction, at an average of 5d, per foot 933, and to day several parcels of deals ex London vessels were sold at an average of 4d, per foot 9x3. Russian deals ox Noel a few were sold at 5 5-16d. for deal sizes, and 4 5-8d. for battens. As the stocks in hand are very large the prospect for cargoes arriving is not a good one. Spruce deals.-Imports, 3,453 pieces. The parcel ox Scottish Prince from Boston was sold at from 43d, to 4d, per foot 9x3, ox Freeman from Boston, deals 11x3 fetching 4gd, to 4 1 16d. The bilding for 9x3 being only 31d, they were withdrawn from sale.

Under date Sydney, August 23rd, the report says :- The unsatisfactory position of Scotch and Baltic timber, reported for some time past still continues, and the sales during the month are unimportant. In American timber there is a good demand for redwood, both rough and dressed. On July 25th, at auction, the following prices were realized :- Spruce deals, 3x9 to 11, 12s. 9d. por 100 ft.; white lining, t. g. & b., 6x2, 10s,; Baltie, t. & g., 6x2, 13s., 8x2, 13s., chamfered weatherboards, 6s. 6d.; red Baltic doors 6 ft. 6x2 ft., 6x1\frac{1}{4}, s. m., 6s. 9d., 6 ft., 6x2 ft., 6x1\frac{1}{4}, s., f. ft., 6x2 ft., 6x1\frac{1}{4}, m., 9s. 3d. On the 1st inst. Baltic deals sold at 13s. 6d. to 17s. 6d.; spruce deals, 10s. 6d. to 10s. 9d.: white Baltic flooring, 11x6, t. & g., 20s. On the 8th mst., t. g. & b. white lining, 6x\frac{1}{2}, 10s.; white laths, 6 ft., 4s. 3d., 4\frac{1}{2} ft. 3s. 9d.; Baltic deals, 7x3 13s. 3d., 8x3 13s.

QUEBEC CULLERS' OFFICE.

The following is a comparative statement of Timber, Masts, Bowsprits, Spars, Staves, &c. measured and culled to Nov. 23:-

	1881.	1882.	1833.
Waney White Pine	3,065,274	3,101,618	3,781,742
White Pinc		7,901,005	7,405,523
Red Pine		1,156,859	193,111
Oak		1,313,109	1,016,322
Elm	1,027,070	714,549	300,631
Ash		310,760	203,448
Basswood		1,471	2,241
Butternut	3,033	2,639	1,118
Tamarac		51,975	37,736
Birch & Maple	161,774	200,061	133,503
Masts	51pcs	33 pes	—pcs
Spars	— pcs	61 pes	— pcs
Std. Staves		564.0.0,22	GS0.4.8.26
W. I. Staves		1429.6,2.7	663,3.3,21
Brl. Staves		80,8.3.6	115,7,0,15
James Patton,			

Supervisor of Cullers. Quebec, Nov. 23.

RAFTS ARRIVED.

The Chronicle gives the following list of rafts, etc., arrived at Quebec:

Nov. 15 .- Price Bres. & Co., pine lumber, Town Wharf.

O. Latour (2), white pine, &c., Cap Rouge. B. C. L. & T Co., white pine, &c St. fichael's cove

S. J. Bennett, deals, &c., Mill cove. Cook & Bros., white pine, &c., St. Michael's

J. J. Calvin & Co. (2), oak, &c., sundry

Stokes & Son, staves, Bowen's covo. Price Bros. & Co., deals, Trois Saumons, Ross Bros., deals, Montreal.

Lumber Yards on Fire.

OSHROSH, Nov. 15. The lumber yards of Stanhiller, Arnos & Co., and A. D. Peck caught fire this evening, and a fire broke out in the Morgan block near by. The flances got beyond control, and the Mayor telegraphed to Fond du Lac for aid. It burned over a large territory and consumed a large amount of lumber, G W. Pratt's yard was consumed. Their loss is

WILLIAM COOK & SONS,

GLASGOW STEEL and FILE WORKS,

Manufacturers of Best Quality Steel, Files, Saws & Crucible Steel Castings. AGENTS FOR CANADA:-

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

JONES & SON, Wholesale Lumber & Timber Dealers

39 Broadway, NEW YORK.

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

And all other Kinds of HARDWOOD LUMBER.

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

J.S.MAYO

IMPORTER AND MANUFACTURER OF

MACHINE OILS

9 Common Street, Montreal.

AMERICAN LUBRICATING OILS A SPECIALTY.

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

LOWEST MARKET PRICES.

Canadian Timber Sales.

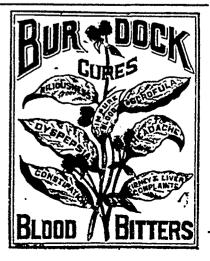
The Ottawa Citizen says :- One of the best sales in timber this season was that made recently by Messrs, Barnard & Mackay, of Pembroke, who disposed of a white pine raft consisting of 21,000 sticks to Dobell & Co., of Quebec at 291 cents per toot.

New Brauswick Lumber.

The St. John, N. B., News reports that the lumber harvest for the present season in that province will not exceed 225,009,000 feet, a falling off of fully 33h per cent. from the usual The total is made up as follows:--Upper St. John, 15,000,000; Aroostook, 40,000,000; Tobique, Meduxnakeng, and other streams, 25,-000,000; Nashwaak, 20,000,000; St. Croix, 15,-000,000; Bay of Fundy, 12,000,000; Miramichi; (northwest and southwest branches, 80,000,000; scattering lots on North Shore, 18,000,000.



copie srealways on the leokoub for chances to increase their carnings, and in time become wealthy; those who do not improve their opportunities remain in poverty. We offer a great chance to make money. We want many men, women, boys and girls to work for us right in their own localities. Any one can do the work properly from the first start. The business will pay more than ten times ordinary wages. Expensive outfit furnished free. No one who engages fails to make money rapidly. You can devote your whole time to the work, or only your spare moments. Full information and all that is needed sent free. Address Stixsox & Co., Portland, Yaine,





THOS. GRAHAM & Co.,

File Manufacturers

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150 FRONT STREET EAST TORONTO.

FILES FOR SALE.

FILES RE-CUT

F. E. DIXON & CO

MANUFACIURERS OF



70 King Street East, Toronto.

SPECIALTY:—Belting made from J. B. HOYT & Co's American Oak Tanned Leather.

EAGLE FOUNDRY!

GEORGE BRUSH

14 to 34 King and Queen Sts, MONTREAL,

MAKER OF

Steam Engines, Steam Boilers, Hoisting Engines, Steam Pumps,

OIRCULAR SAW MILLS, BARK MILLS, SHINGLE MILLS,

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

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

AND AGENT FOR

1322

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

Established 1874.



Established 1874.

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RELEIVE AND CURE

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

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

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

C. L. TILLEY, VATERVILLE, N.B.

Numerous of such testimentals 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.

NORMAN'S ELECTRO CURATIVE TRUSS is the best in the world. Guaranteed to held and be comfortable. Circular free. N.B.—Trusses for Eupture, best in America, and Electric Enterios always on hand at reasonable prices. 111/2

SAW MILLS!

Having POLE ROADS to their Timber keep up the Mill Stock and run the year round.

Pole Roads are Cheap, Durable and Speedily built. The Cars can be uilt by any handy man in a couple of days, and will carry 2,000 feet of Hardwood Logs at a Load, drawn by one Span of Horses.

The Wheels are adjustable on the Axles to accommodate themselves to any bend in the poles.

The Iron Work complete, including Bolts and Washes, with a diagram of Car, are supplied by the undersigned. Prices on Application.

As to cost and utility of Pole Roads we will refer without permission to E. WATT, Gesto, P.O.; W. EDGAR, Kilroy, P.O.; DUNSTAN & IRWIN, Essex Centre, and JAMES NAILOR, Oil City, who are now running respectively 10, 8, 5 and 3 miles, and are stocked with our Cars.

C. NORSWORTHY & CO.,

ST. THOMAS, ONTARIO.

Patentees and Manufacturers of Moore's Improved Taper Cone Feed Saw Mills

MONTREAL AXE WORKS

MOCOCK & SON

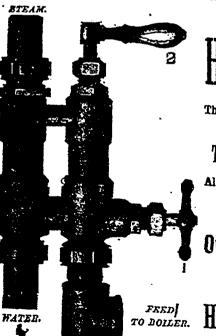
St. Gabriel Locks, - Montreal,

-Manufacturers of-

AXES and EDGE TOOLS

OF EVERY DESCRIPTION.

Old and Reliable, the Best Axes made in Canada.



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THE

Hancock Inspirator

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

THE INJECTOR PERFECTED!

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

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MONTREAL, P.Q., CANADA.

Manufacturers of Inspirators, Ejectors, and General Jet Apparatus.

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The William Hamilton Manufacturing Co'y

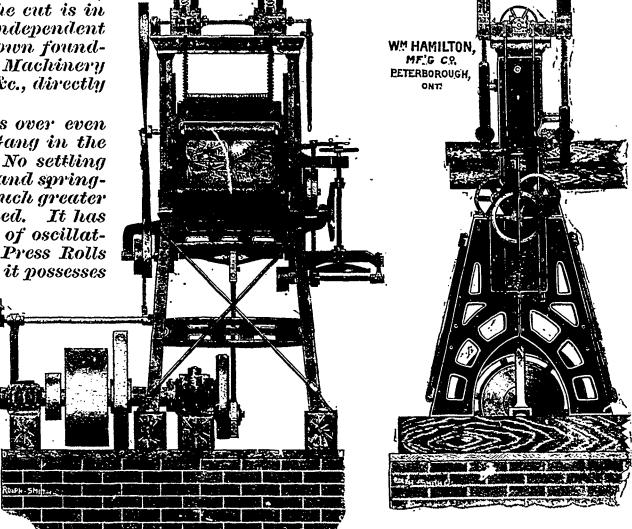
Saw Mills and General Machinery

PETERBOROUGH, - - - ONTARIO.

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

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

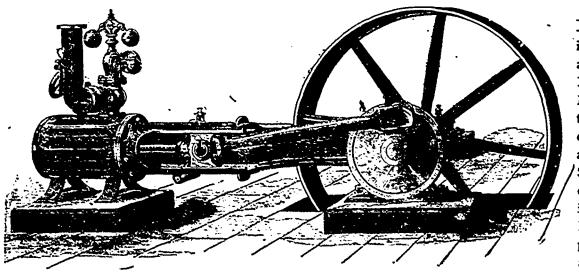
generally all the good features of best American Gangs, with heavier frame work and heavier shafting, all with a view to rapid, steady & correct working. A good look at one of these mussive machines satisfies the sawmill man that they are in every way capable of continuously performing heavy duty throughout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



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

-ALSO-

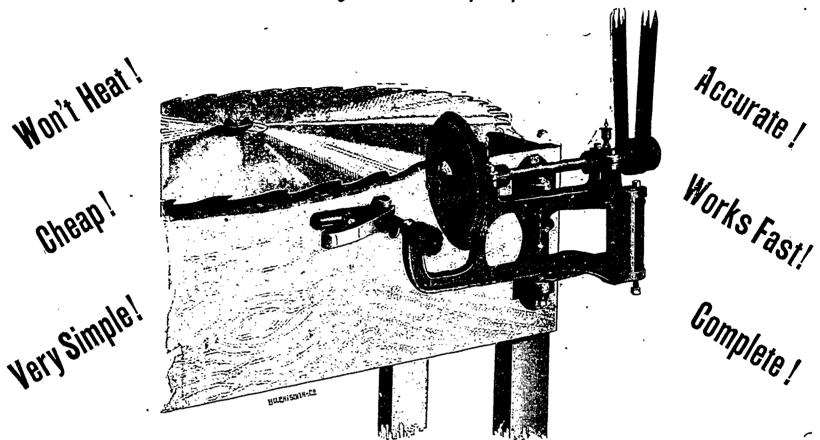
ENGINES AND BOILER



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

ROGERS' PATENT SAW GUMMER and SHARPENER

The Handiest Machine for these purposes ever Invented.



Lumbering Season, 1884

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

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

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

JAS. HADDEN, Formead, says:—
"Your machine is all-2 expected."
CHAS. ANDERSON, Anton Mills, says.—
"I have given it a good trial, and am well pleased with it.
"I find it is one of the indispensables in a saw mill." *

ROBT. R. WEIR, Orillia, writes:—
"It works like a charm, and is very accurate in its work."

CRONE & PATTON, Hoc Roc Mills, Gravenhurst, says.
"The Rogers' Saw Gummer purchased from you gives" good satisfaction, * * it cannot be beat."

D. DAVIDSON, Pentanguisheno, writes:—
"We are well pleased with the Guamer."
W. W. BELDING, Wyevale, writes:—
"I have the Gummer running and it is giving good "satisfaction."

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Hart Emery Wheel Company, Limited - Hamilton, Ont.

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

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- 3. It furnishes complete and reliable quotations of prices of lumber in all the leading markets.
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TO ADVERTISERS.

. It has a circulation among saw mill owners, manufacturers, lumber and timber dealers and all classes connected with the timber business.

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-----CHEAPEST, BEST, MOST RELIABLE and ONLY TRUE MEDIUM-

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McLAUGHLIN Bros., Amprior, run two 60-in. Procke Bit Same, 800 revolutions per minuaon 6 to 10-inch feed. They use Steam Feed

No. 1 TOOTH.

With this Saw you have either a Bit Tooth Saw or ordinary Inserted Twoth Saw, with teeth two and a half inches long, both fit same socket and are interchangeable in a few minutes. These Bits require no gamining, and very little filing; are so firmly held that they will stand all necessary swaging, and can be worn down to dotted line shown in cut; they rest on lugs, saving the strain on the rim of the saw. For these reasons they will cut more and better imber at less cost than any other tooth.

EXTRA BITS (per 100) No. 1. \$9; No. 2,\$8.— (per 1000), No. 1, \$80, No. 2, \$70.

Two sets No. 1 Bits have cut 500 m. feet pine, in 60-inch saw, running 800 revolutions per minute, on 6-inch feed. E. E. Parsons, Amprior.

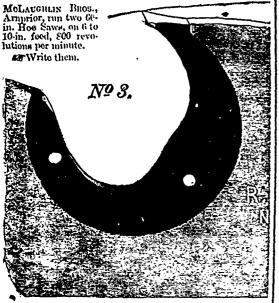
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We run 60 inch to 72 inch Solid Saws, as thin at center as 10 guage at rim—saving, over a 7 guage saw—1000 feet of lumber in every 25,000 cut.



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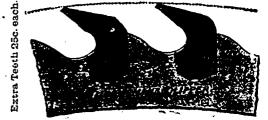


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Having special facilities for the manufacture of extra thin saws for board initis, we are prepared to receive orders for Circular Sawsas follows —54 inches in diameter, as thin as 12 guage at rim; and 11 at centre, 54 to 56; 11 guage at rim, 10 at centre, 66 to 72; 10 at rim, 9 at centre. Our unparelleds surcess with thin saws during past few years has induced us to recommend them to our customers. Our superior facilities are 1st, Evenness of Temper, 2nd, Perfect Accuracy in Thickness, Saw balances pericetly; 3rd, Property Eleminered, to have equal strain in all its parts and at same time run true. This department is under the special supervision of J. E. Emerson, who has had 30 years experience and is without doubt the most successful circular saw maker in the world.

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Can insert one tooth for every inch in diameter of Saw.



Designed specially for Thin Saws not thicker than 6 gauge at rini, or thinner than 15 guage at rim.

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EXPRESSLY FOR HEAVY FEED.



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