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VOL. 3.

PETERBOROUGH, ONT., JULY 2, 1883.

NO. 13.

A HEMLOCK-BARK concern at East Templeton, Ottawa river region, has 100 men stripping bark, and intenda to get out 1,000 cords.

MR. E. B. EDDY, of Hull, will, it is stated shortly establish a paper pulp factory in that city on the site recently occupied by Batson & Currier. He expects to utilize in this way all the sawdust and refuse of his saw mill.

In one day Thomas Hall, with eighty hands, 75 Indians and five whites, put over the Chats slides and rapids a raft containing 170 cribs of white pine and other cribs, amounting in all to 206 cribs, which were raited and got off the same night. This is probably the biggest day's work of the kind on record.

THE Timber Trades Journal has the following paragraph on "Yellow Pine," being our "white pine .- This question of dryness is an important consideration in regard to yellow pine, fully seasoned wood being intrinsically of much value than stuff free-lly manufacmora tured. In Baltic goods, on the contrary, the fresher they are from the mills the more the trade here like them. Of course we do not mean to infer that green wood is as marketable as seasoned, but all deals are supposed to have undergone a process of drying before shipment.

The American Lumberman of New Orleans says :- "Squattersovereignty" is a persistent enemy to our magnificient pine forests, and its rule is overywhere found in the shape of thousands of trees girdled and left to decay around thriftless and abandoned homes, hundreds of which are found throughout the pine lands of the South. The vandals generally remain long enough to destroy what they can of what is valuable, and then move to some other section to repeat their work of devastation, an evil as far reaching and as pernicious in its effects as the forest fire. Both are evils which should as far a possible be cured by prompt and proper legislation.

THE London Timber Trades Journal of June 2nd, says :- It is satisfactory to record, that if the deliveries are on a moderate scale, so are the supplies that have to replace them. Twentyseven vessels only have to be recorded with timber goods in the port of London for the seven days ending with the 29th, or about 15 short of the number that put in appearance the last week of May, 1882. The next Board of Trade returns will be awaited with some curiosity by the leading importers at the chief centres of trade, and if they show that the same limited scale of supply has prevailed generally in the United Kingdom through the month of May as we had to chronicle in April, a better feeling may be expected to severt itself for the rost the season among buyers.

PROSPECTS IN ENGLAND

The Timber Trades Journal says. It has been shown in our columns, and corroborated been a great falling off in the importation of hing of the month of May, nor has there been any excess of importation since, and it is the sign that the trade is again moving shead. opinion of many that, however delayed, this backwardation will have to be made up before admitted-and it is cortianly very plausiblenothing is more likely than that the state of remunerating prices may compensate them for the absence of the usual demand on their stocks in the earlier months of the year.

By the tone of our correspondent in Sweden. we may reasonably assume that there will be some curtailment in the production at the sawmills over there, though whether this will be on a sufficiently large scale to appreciably affect f. o. b. values during the present season it is impossible to say without more data to go upon. With any improvement in the demand we fear the resol e to work short time, to which the Swedish shippers have seemingly agreed, would soon disappear, and stuff might be cut to more than meet the rovived requirements. But in any case a greater business is likely to be done shortly, if at no better prices, though with the consumption accelerated it is difficult to see how these can be kept from advancing.

We shall not expect to see much improve ment, however, till we hear of ships for charter being in more request, because the action of producers in limiting their manufacture will not stimulate the consumption unless a real revival of business takes place over the country in every direction. That the prospects of fall business are more encouraging may be traced to the fact of the present greatly reduced stocks here rather than to what they represent upon the other side, When once buyers begin to find they may be late in getting what they require, a tone will be given to the market which can hardly fail to render values firmer.

In the meantime the cutting trade that for the leading stocks little alteration has been excelled by any other wood. made on last week's prices. If anything, they are already hardening, but taken one with another we consider there is nothing to denote any unward inclination.

Common deals are sufficiently cheap to inplentiful enough to make buyers indifferent as, to fresh purchases except at a still futher reduction

at shipper's present holding values. So the specimens where the wind blows off the leaves. market stands, the buyer having rather the bost | In planting, to prevent monotony, it is well to by the Board of Trade returns, that there has self which the public sales here afford, if only gorgeous autumn hues of our forests are largely on a limited scale, induce him to import only foreign timber into this country up to the begin sparingly and to keep on the outskirts of the N. Y., on a cloudy fall casy in suburban home

is all that we can at present adduce in favor of kinds, each with its own poculiar autumn color, the season comes to an end. If this theory be an approaching upward movement in the trade; and some still green, but the rock maple outbut is an important fact, and is more to be relied on than a dozen rumours of short supplies markets will ere long begin again to favor the abroad, rivers running dry, or great orders going shippers abroad, and that a brisk fall trade at out Irom other countries to clear away the stocks that were intended for us.

SUGAR OR BOCK MAPLE.

The following paper on the Acer Sacchar inum, is by Jacob W. Manning, Reading, Mas sachuesetts :

This is in a broad sense an American tree, for it extends from the extreme eastern part of North America to the Eastern Rocky Moun tains, and from the highlands of the Gulf States to the watershed between the waters of the St. Lawrence and Hudson Bay. In all this territory it is found at frequent intervals on elesated land and along rivers, and is at home in all rocky formations.

This tree is often from three to five feet in diameter, and seventy to eighty feet high, large and straight enough to make ship-keels, growing naturally without any aid from man.

I measured a tree in Northampton, Ma that had been planted sixty years that was feet from the ground; even this is small compastures.

No other native plant growth produces such one would suppose was their vital fluid.

nction, ued as one of the best American trees. It is near thing our article to a close, we cannot reAs to best goods, these, though wanted, are thrifty, comparatively free from insects, and is fram from inviting our moneyed men to give not in such demand as to make dealers anxious sure to grow into a well balanced tree in nearly this subject the carnest attention it deserves, to supply themselves, and they continue to de-cline transactions except for immediate wants, yet grass will grow quite freely under single it more exhaustively and fully.

of it; the immense facilities for supplying him- intersperse other trees of different outline. The due to this maple. I witnessed at Newburg, market until he sees some outward and visible grounds, laid out by the lamented A. J. Downing, the very best effects in the varied hues The one favorable fact of a diminished supply taken on by this tree; interspersed among other shone them all .- Boston Traveller.

SHIPPING FOR TIMBER.

The New Orleans Times-Democrat complains of the scarcity of tonnage combining large carrying capacity with light draft. It says:—"Our commerce with Mexico, Texas, British Honduras and South America is increasing yearly. More especially is this felt in lumber, but restricted to a class of vessels which are compelled to charge a rate of freight which exceeds in many cases more than one-third the cost of the lumber itself, delivered alongside; the mills can ship nothing but the choicest article, leaving on their hands the cheaper grades and offal. This necessarily entails a higher price being charged for the lumber, and, in consequence, the purchaser is deterred from ordering more than he barely needs. But once let the rate of freight, by employment of the right class of vessels, bo reduced; lot the mills once be able to lay down the whole cut of the log at the point of delivery, then they in turn can afford to cut cheaper and thus attract orders. The volume of business, it is safe to predict, would be more than double eleven feet six inches in circumference, three what it is now. Mill owners in the South are, as a rule, hampered for capital, and need all of pared with some natural trees seen in old, their means for the development of their business, and cannot afford to embark in a business The wood is close grained and solid, and one which is separate and distinct from their own. the handsomest of all light colored woods | Yet so severely is the want of this class of tonfor furniture and house finish. The bird's-eye, nage folt that some of our largest mill owners curly and branched maple veneers that make along the Gulf coast are building vessels of such a rich and varied finish are made from it, their own, with a view of making themselves It is almost the only wood used in the manufact independent of chance and the exactions of ture of boot and shoe lasts, for which a surpris- ship brokers. Another feature in connection ingly large amount is used, and in many other with this business is the fact, that, could the industries where a solid and close-grained, but different ports to the south of us, which have now done keeps quoted prices very low, though hight wood, is necessary. As fuel it is but little, but 7 or 8 feet of water on their bars, rely upon a sufficiency of cheap and light draft tonnage, trade would be stimulated to an extent delicious syrup as the rock maple. A sugar never known before. In return for our yellow orchard is a valuable addition to a farm; oven pine and other products, regions of the valuable our street and lawn trees can be tapped without woods of the topics, mahogany, cedar, fustic, etc. injury; they appear to grow as finely and live would be opened up, and vessels which now in a duce sales, but stocks of this description are as long as those not robbed of their sap, which imajority of cases roturn empty, would be guaranteed good freights back. The field is a As a street lawn or park tree it is justly val. | promising one, and while, for lack of space, we

LUMBER FIELDS.

The aggregate results of the logging operations in the Minnesota and Wisconsin woods reveal the stupendous magnitude of the northwestern lumber interests in a light which will probably astonish persons most familiar with the subject. The total cut of the two states exceeds 4,000,000,000 feet. The mind will be betterable to grasp this unwieldy number when it is understood that it represents the trees growing on 1,250 square miles, or about 35 townships of land. In the classification of districts, the great Chippowa valley region of Wisconsin is easily first, with 1,000,000,000 feet on the Chippewa, Eau Claire, and their tributaries. The Mississippi above Minneapolis comes next with 600,000,000 feet. The Wisconsin river returns 441,000,000, the Duluth district 297,000,-000, and the Black river 228,000,000. streams on the west shore of Lake Michigan, grouped together for convenience, show a cut of 785,000,000 feet. On the different railroads it. Wisconsin and Minnesota, between 500,000,000 and 600,000,000 feet were cut. The cut is by far the greatest in the history of the northwest.

There is a great truth to which this enormous growth in the logging interest in the northwest points. The swift and surprising development of the country west of the Mississippi river has created a greater revolution in the lumber business than in any other interest that supplies its various demands. Within the last few years the enormous demand from the west has revolutionized the lumber trade in its sources, its methods, its channels and its markets. This year's investigation reveals clearly the fact, more vaguely understood before, that the destination of nearly all the lumber cut in Wisconsin and Minnesota is the treeless prairies and magically-up-springing new cities of Dakota, Montana, Nebraska, Iowa, and even the more southern states. Chicago, once the lumber market of the whole west, gets now only a fraction of the enormous product of Wisconsin and Minnesota, and the magnet of the western demand attracts the lumber from the cheap water routes of the lakes to the westward railroad lines. Nearly all the lumber cut on the shores of Lake Superior goes west by the Northern Pacific. Wisconsin Central carries a little to Milwaukee, though much of the traffic by that line is diverted by the westward lines it crosses. The great lumber centres of the Chippewa, Black and Wisconsin valleys are drained by the Omaha and Milwaukee and St Paul to the west and southwest. Even the lumber on the west shore of Lake Michigan, within easy reach of cheap water transit to Chicago, chooses instead a circuitous route by the Chicago & Northwestern road across Wisconsin, Minnesota and Iowa to the omnivorous western prairies. The once all-absorbing lumber trade of Chicago is reduced to the handling of so much of the Michigan product as is required for western consumption.

.The stimulus of the western demand has changed the methods of lumber production and transit, as well as the direction of the market. The present or prospective exhaustion of the richest and most convenient tracts on the margins of navigable streams, while the demand is annually increasing, compels a resort to new sources and a more careful gleaning of old. During last winter many tracts were cut for the second or third time. Higher prices and an eager market made it profitable to return to second class timber, windfalls and smaller growth, neglected in former years. So far as this tendency leads to a cleaner and more economical reaping of the pine harvest, it is to be commended. It may work harm, however, by causing the destruction of half-grown trees, which contain the promise and potency of the future timber supply. A still more important change in the methods and sources of lumber production is the adoption of means of reaching rich tracts remote from the channels of navigable streams. To an extent not generally understood, the railroads are taking the place of rivers as a means of transit of the product, even from its first source. Hundreds of millions of feet of logs are taken to market every year that hever float for a mile on the waters of rivers. Railroads are penetrating the lumber

sin, the Chippewa Valley, the Wisconsin Central, the Northwestern on the Michigan shore, whose sole or main business is the transportation of lumber cut on their lines, hauled to mills at their stations, cawed into beards and leaded into cars without ever seeing a raft or a boom. In many places narrow guage roads are built from the main lines into remute tracts, to onlarge the field from which supplies may be drawn. This change of method adds a large percentage to the available supply, and hastens by as much the rate of exhaustion of the forests.

The question of the prospective exhaustion of the pine timber of the northwest will suggest itself to every thoughtful person. There is no question that the time is swiftly approaching when the forests of Minnesota and Wisconsin will no longer answer to the annual demands made upon them, nor that the day is hastened by the extravagant and destructive methods of production, happily less common now than a few years ago. A pine forest is a thing of slow growth, and those of Wisconsin and Minnesota are definitely limited, though still of vast extent. They cannot indefinitely endure the stripping of the available timber from 1,250 square miles per year. The period of exhaustion of the northwestern forests has been the subject of speculation. It is vaguely put at ten years, but there s-no data to justify such exact computation. The demand is variable, and there is no means of estimating what the supply may become under changed conditions. Poorer and less accessible timber will be made available by improved methods, and the pine lands remaining will probably be made to go much farther than the same quantity in former years. But the certain fact that the forests are destroyed much more rapidly than they are replaced with new growth, makes their exhaustion only a question of time. There are few virgin tracts left now. The loggers are already invading the Red Lake and Vermillion districts in Minnesota, and the railroads have penetrated to the hitherto intact forcets above and between the heads of navigable streams in Wisconsin. Whother ten or twenty years hence, the exhaustion of the northwestern lumber supply is near enough to suggest the most careful husbanding of the resources that remain, and to emphasize the blind and mad folly of a lumber tariff that preserves the forests of our neighbors and puts a premium upon the destruction of our own. St. Paul Pioneer Press.

TREES AGAIN.

One of the vagaries of the free-traders is the publication of a pamphlet_intended to show that the only way to check the destruction of forest trees in the United States is to abolish the duty on foreign lumber; and a scientific periodical, which ought to know better, remarks in commending the argument that the timber duty offers "a direct encouragement to a continued course of ruin." The forests are recklessly destroyed because the people have no adequate sense of their value; and the way to check the destruction, say these economists, is to reduce their value by introducing Canadian timber at a low price. To state their position is to show its absurdity.

If we are not to check the destruction of forests until we have pursuaded people to cease cutting our trees into planks and shingles, and to buy their building material abroad, we may as well abandon the expectation of a change. The abuses to which we ought to direct our attention are reckless waste in wood-cutting, wanton or careless devastation by fire, and the wholesale destruction of forests not for the use of the timber but merely to get rid of it. All these evils, except possible the second, would be aggravated by the repeal of the lumber duty. It is a common practice all over the country to waste the woods in such a manner as to wreak the greatest possible ruin for the least possible result. The axemen who are cutting fuel leave all the fallen trees and broken boughs, and bring down the fresh ones, of which, moreover, they take only the best parts; or they sweep away the young and old growths together, destroying all chance of a renewal of the forest. Perhaps only a few miles away another gang are stripping hemlock bark for the tanneries, and

use, are left to rot on the ground. As the woodman will only chop in the easiest way, without regard to economy, so the householder will burn nothing but the best firewood, without reflecting upon the cost which he will ultimately have to pay for his extravagance.

Forest fires, which are more frequently the result of criminal recklessness than of accident. ought to be the subject of penal legislation, But closely connected with the frequency of these disasters is the widespread sentiment that woods are like weeds, the natural enemies of the settler which must be exterminated to make way for civilization. There are regions of the United States where the owners of timber offer it gratis to anybody who will cut it and haul it away. Under this system the best parts of the best trees are taken for fuel and the rest is burned on the spot, the fires of course often spreading over miles of valuable standing timber. Thus, in order to hasten the clearing of a few acres for the plough, the isndholder destrovs one of the most important elements in the productiveness not only of his own farm but of the whole country around. His case is like that of the thriftless cultivator who exhausts his fields by excessive and improper cropping, ruining his future for the sake of a few hundreds of bushels in the present: And the man who wantonly lays waste a forest in worse than the man who exhausts a farm, because the injury is not confined to himself and his heirs but is spread far and wide.

The State will sconer or later find itself forced to consider how it can prevent people from cutting down their own trees. But before any such radical reform as this is attempted we must sultivate the "sentiment of trees," in which a large part of our population seem to be strangely deficient. No important public measure can be carried out until public opinion demands it; and although this question of the preservation of forests is attracting more and more attention every year, there is a huge mass of indifference and ignorance which will long resist any change. To this formidable inert opposition, journalists and economists must patiently address themselves.—N. Y. Trionne.

LUMBER RAPTS

The lumber merchants of Hannibal, Me., employ a novel method of removing lumber from rafts in the Mississippi to their yards. This is usually done by towing the "strings" of which the rafts are composed alongside the shore. The lumber is then washed off by the use of buckets and brooms, and loaded by hand upon wagons which convey it to its proper place for piling in the yards. This method, it will be noticed, necessitates a large amount of manual labor and the occupation of considerable river front in order to handle a large amount of lumber in the season.

The new method calls in the use of the railroad and is operated as follows:-A track is laid along the edge of the water, extending even beyond the low water line. This is heavily ballasted with rock, so that water running over it will have no effect in moving it out of place or floating the ties. At ordinary stages of water, therefore, there is a depth of several feet over the river end of this track. The lumber-raft which it is desired to land is then broken into its "strings," one of which is floated over the line of submerged track and kept in place by a line of guide piles driven for that purpose. This string is again divided into the various cribs composing it, which vary somewhat according to the size of lumber. A train of low, strong flatcars, built for the purpose, is then run down from the shore, so that one or more of them are under the cribs of the lumber-raft. These cars are of such size that each will take in the length of the crib.

change in the methods and sources of lumber production is the adoption of means of reaching rich tracts remote from the channels of navigable streams. To an extent not generally understood, the railroads are taking the product, even from its first source. Hundreds of millions of feet of logs are taken to market every year of feet of logs are taken to market every year that hover float for a mile on the waters of the maked trunks, instead of being turned to they can be. At the yards the lumber is quick it imber, and the proximate exhaustion of the acrib is moored over a car, and the movement of the movement of the train away from the water by an engine and the forests, the time having probably acrib is moored over a car, and the movement of the train away from the water by an engine arrived when the economy and necessity exists floats the crib also ashore. When in such a mainer as to wreak the greatest possible ruin for the least possible of the train away from the water by an engine floate the train away from the water by an engine floate the train away from the water by an engine of the train away from the water by an engine floats the crib also ashore. When in such a million when the economy and necessity exists floats the crib also ashore. When in such a million arrived when the economy and necessity exists floats the crib is moored over a car, and the movement of the train away from the water by an engine floats the crib is moored over a car, and the movement of the train away from the water by an engine floater that it is carried all the fallen trees and broken boughs, and broken boughs and in seal that it is crib is moored over a car, and the movement of the train away from the water by an engine floater that it is crib is moored over a car, and the movement of the train away from the water by an engine floater that it is crib is mo

ly washed off with a hose while being unload.

The advantages claimed by this manner of handling lumber are many. There is less obstruction of valuable river front by lumberrafts; cheaper ground can be used for the number yards, as they can be away from the river; the saving in manual labor and teaming is very large, and, lastly, the saving in time is an important item. It is claimed in Hannibal that last year was the first that saw the whole supply of lumber out of the water before winter set in, and this was only possible through use of the method we have described.—Railway Review.

EXHAUSTED FORESTS.

The following letter has appeared in the Montreal Gazette:—

SIR,—I observe, in the Gazette, an article referring to the drive of logs on the Connecticut, river, containing 90,000,000 feet, as an evidence that the forests of the east are not completely exhausted, and inferring that years after the time at present alletted by statisticians extracts of similar import may be expected from Michigan papers, and that in the estimates of standing pine no calculation is made for the natural growth of trees, etc.

That the forests of the cast are completely exhausted has hardly been claimed, but no better evidence of their scant condition as regards. pine could be furnished than on this enormous river, draining such a vast extent of country. which not many years ago was covered by magnificent pine forests, hardly a stick of pine is to be found in the whole 90,000,000, and to obtain this amount of apruce, most of which is to supply mills in Massachusetts and Connecticut, the lumbermen were compelled to go to the headwaters of this river in New Hampshire, within gunshot of the Canadian line, even getting some of it from Canada; in fact, four-fifths of it from the region of the Connecticut lake a section of the country that would not have been in the States at all but for the generosity of Lord Ashburton, who, with that liberality proverbial with those dealing with the property of others, presented it to the United States rather than have any unpleasantness with his friend Webster, for a projection eastward of the northerly line bounding Vermont and Canada would cut off nearly the whole of it.

If this Connecticut river spruce drive of 90,000,000, 40,000,000 of which are old logs, proves anything, it is rather that the eastern states are pretty near the end of their supply, not of pine only, but also of spruce."

W. LITTLE,

TIMBER .TREATING PROCESSES.

At the National Exposition of Railway Appliances the American Society of Civil Engineers has a large display of specimens of different kinds of wood treated by various processes for divers purposes, in which are included many curiosities, The collection is the result of the labors of a committee appointed to investigate the subject of timber preservation. The conclusions arrived at, after corresponding with 350 persons, examining 104 patents, and collecting a fund of general in formation, are that out of innumerable methods of preserving timber but few are, practical, and only three can be relied upon to prolong the life of wood exposed to the elements, namely: kyanizing, burnettizing, and creosoting. In Europe these methods have passed beyond the domain of experiment, and there produce great economical results. In this country the cheapness of timber has been the principal obstacle to wood preservation, the cost of injecting making the price of cheap woods too high, and consumers have preferred letting the wood rot and renewing it. The committee believe that this condition of affairs is fast being removed by the enhancement in the price of timber, and the proximate exhaustion of the more available forests, the time having probably arrived when the economy and necessity exists in many parts of the country for treating wood against decay in exposed situations. The selection of the proper method to be used depends upon the proposed subsequent exposure of the timber-dry, wet, marine worms, etc.-and the. amount of material which the value of the unprepared timber admits of being expended upon

dry soil, and generally for wood exposed to the weather, but not to constant moisture, kyanizing-steeping the timber in a solution of corrosive sublimate-may be relied upon. Hemloc' was exhibited that was exposed for 40 years at Fort Ontario, Oswego, N. Y., and various kinds of timber that were exposed for 20 years at Lowell, in a sandy soil; while the samples of spruce, from the gate-boxes of the Lowell water works, exposed in various soils for ten years, exhibit the effect of various degrees of moisture, and show that kyanized timber should be kept dry. Kyanizing costs about \$6 per thousand feet, board measure. Under favorable circumstances it may be relied on to double or cuadruple the life of the more perishable woods. Where and when it will pay to use this method will depend upon the price of the timber and its subsequent exposure.

Burnettizing consists in injecting the timber with a solution of chloride of zinc. It cannot be done successfully unless the wood is first sensoned, either naturally or artificially, to deprive it of moisture, and make room for the solution. This is forced in under pressure in closed cylinders, and is liable to wash out subsequently from the outer layers of the timber, unless retained in some way. For cross-ties, and for timber exposed to weather and moisture, but not in very wet situations, burnettizing is probably, in view of the present price of timber, the most economical method to use. It costs, if well done, about \$5 per thousand feet, board measure, or some 20 to 25 cents a tie. It can be done for even less, but the result is not likely to be satisfactory. The hemlock and maple ties exhibited, which have been in use 15 years on the Lehigh & Susquehanna railroad, and the oak tie, 17 years in use on the Eric railway, show the results which may be accomplished. In Germany brunettized fir and beech ties average from 15 to 18 years in the track, and this method has there become the favorite for ties, after extensive trial of all the others. This process should by preference be applied to the cheaper and more open-grained woods. It does not answer so well for bridge ties and timber, as burnettized timber is apt to check and split when dry and exposed to the sun. It will probably not pay to 1 mettize ties where white oak, or other equally lurable woods, can be obtained at 40 or 45 wars a tie, but a recent investigation upon one of the eastern trunk lines, about 1,000 miles long, has established the probability that, with white oak ties at 62 cents each, an annual economy of \$250,000 may be expected by burnettizing the hemlock, instead of laying down the oak unprepared.

Creosoting consists in injecting the timber with hot creosots oil under pressure. The mode of application, and necessity for sessoning, are much the same as for burnettizing. For timber in very wet situations, or exposed to marine worms, the best method to use is that of creosoting. It is the most effective, but also the most costly of the various processes. When well done, it costs from \$12 to \$20 per thousand feet, board measure, or from 50 to 60 cents a tie. It is the favorite method used in England, and is there materially cheaper than here, in consequence of the losser price of the oil. The English ties exhibited have been from 20 to 22 years in use, and show perfect preservation. Ties and timber crossoted in this country are also shown, but have not had so long an exposure. It is probable they would be thrown out of service, by being cut into by the rail, long before they would decay. Where it will pay to use this process, depends upon a number of local circumstances and prices, which cannot well be enumerated here. It is very good, but costly. There are other substances, such as pyrolignite of iron and sulphate of corper, which have proved fairly effective in preserving timber, but European experience seems to favor most burnettizing and credeoting. The sections of tics exhibited from the Wabsah line, and from that of New York, Pennsylvania & Ohio, were prepared by a modification of the sulphate of copper process. The original patents on all the effective processes have long since expired. There are several patented modifications and modes of application, some valuable, and some modes of application, some valuable, and some otherwise, which are still in force. It cannot be too strongly insisted upon, that to be effective the work must be well done. The sap or moisting with unqualified satisfaction."

ture must be getten out of the timber, and a sufficient amount of antiseptic put in. If the solution exceeds a certain strongth, the wood is rendered brittle and inclastic, so that both skill and honesty are required to accomplish success. -Northwestern Lumberman.

CUMBERLAND MOUNTAIN TIMBER.

A correspondent of a southern journal has made a tour over the Cumberland mountains, and tells about the timber he saw. In Monroe county chorry is very abundant, ranging from two to six fact in diameter at the butt, and 60 feet to the first limb. It is difficult to get out and will have to be hauled from one to sixteen miles, and then floated down to a mill site. The benches are not smooth but rocky and rugged. The standing cherry in this county is estimated at from 10,000,000 to 16,000,000 feet. It can be bought very cheap, and the correspondent is of the opinion that a man with money and pluck could make a fortune out of it.

In McMinn, Polk, Bradley, Hamilton, Marion. Franklin and Lincoln counties there is a heavy growth of timber, but little cherry and pine, and these counties have some good logging streams. The poplar is very fine, and most of it is accessible at a reasonable cost. The hickory is straight, long-bodied, free from knots and tough. Franklin county is one of the best of this range, both for choice timber and the ease with which it can be marketed. The mountains in this county are less rocky than in the others, and the benches not so steep, with good points for road-bods. There is hickory enough on a tract of 6,000 acres to pay the state dobt, if worked up into awl handles and sold at one cent each On this tract there are estimated to be 15,000,000 feet of poplar, and it can be bought for \$4,000. There is, however, a question as to the title, as there is too much of the land.

One man was cutting butternut and walnut to fence his 10-acre lot, and ash trees, four feet in diameter, were deadened to give his crop sunshine. Small mills, with a capacity of from 2,000 to 4,000 feet per day should be used, as moving often is necessary. The most wonderful mill was found on Robinson creek, in Franklin county. It is very primitive. The mill is made entirely of wood, with the exception of the saws, and was built by George Keller, a 19-year old boy. The mill is driven by three turbine water wheels, all made of wood. The head-blocks are of wood, with wooden ratchets. The sawing is smooth, and the working of the mill would surprise the most credulous.

Mills are being put in operation all along the range of mountains, where a few years ago it was thought out of the question to handle logs In a short time the sombre stillness of this mighty forest, where now only the plaintive call of the lonely owl is heard, will be broken by the busy hum of many saw-mills. - Northwestern Lumberman.

Manitoba Shipbuilding.

The following from the Manitoba Free Press, of Winnipeg, shows considerable activity in vessel building among the lumbermen of the Canadian Northwest: The Couchiching, a double screw propeller, was launched May 24. She was built by John Short for the Rainy Lake Lumber Company, and is 93 feet in length over all, 18 feet beam, and 7½ feet deep of hold. Mr. Short has two more boats on the stocks. one for Garden & Short, to be 88 feet over all, 16 feet beam, and 61 feet donth; and the other for W. T. Gibbins, to be 60 feet over all, 12 feet beam, and six feet depth. The Winnipeg Lumber Company has also two boats on the stocks. One is to be 100 feet long, 20 feet beam, and 8 feet depth; the other is for a steam pleasure yacht 50 feet in length.

A MINISTER'S EVIDENCE.—The all prevalent malady of civilized life is Dyspepsis. Rev. W. E. Gifford, of Bothwell, was cured of Dyspepsia and liver complaint that rendered his life almost a burden. The cure was completed by three bottles of Burdock Blood Bitters.

ONE OF MANY .- Mr. R. W. Carmichael, Chemist and Druggist, of Belleville, writes as

Established 1874.



Established 1874.

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Ask for NORMAN'S ELECTRIC BELTS and you will be safe against imposition,

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Head band I got for my wife has almost cured her of nouralgia. Yours truly,

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

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MILLS! SAW

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Pole Roads are Cheap, Durable and Speedily built. The Cars can be built 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 V. ashes, 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.

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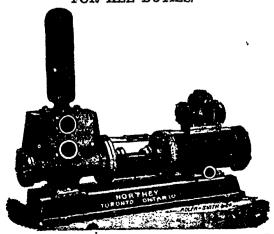
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Combined Steam Fire Pumps and Boiler Feed Pumps for Saw Eills, Etc., a Specialty.

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THE PRESERVATION OF FORESTS AND THEIR ECONOMIC RESULTS.

If any Canadian were asked whether it w desirable thing to preserve old forests and cultivate new ones, he would without a doubt assent. Strange to say, everybody would agree with him, and yet when we come to apply the pro position with some very practical test, as many votes are found objecting to what ever is advanced to conserve of our forests. Last year an attempt was made in Montreal to awaken public interest by holding a Forestry Congress, which was addressed by many able men, including the ex-Prime Minister of Quebec and the American Commissioner of Agriculture. The instruction which the Congress diffused was valuable and was disseminated over a large area of the country. Whether it will accomplish anything more than the planting of a few thousand trees may be doubted. The subject is becoming seri ous, and mere individual effort will not be sufficient to meet the requirements of the case Whatever improvements have been introduced, and however much manufacturers may oconomise their use of wood, the fact remains that the resources of the country's forests are yearly becoming less. Hitherto the doctrine of private property in land and all that pertains to it has been charished here and in the United States with a vengeance. It does not seem to have occurred to our legislators that there were other claims upon them than mere socialistic or communistic ones, which merited attention. The theory and practice of all European legislation has long been based on the principle that the State is but the trustee for unborn generations of the human race. There are all sorts of limitations restricting thouse of land and its products in France, Germany, Russia and England. Among these are the Agricultural, Mining and Forest laws. The object of these laws is to ensure the largest aggregate production, and to reduce waste to the very smallest limits. The cutting of wood is regulated in such a manner that the area and quantity of wood of forests nover becomes less, but rather shows a tendency to increase. The teaching of forestry as a subject of education, is practised just as ongineering and chemistry are. Not only so, but France, Germany, Russia and Switzerland have separate schools where forestry is the chief subject of study. In all of these countries, there are, of course, State Forests, without which complete instruction would not be practicable. achools form a part of a department of forestry presided over by a State Commissioner. The teaching is conducted in intimate connection with the forests. As no statistics are at hand it is impossible to form any correct estimate of the value of the work done by these schools, the number of students turned out, or the precise character of the effect which these schools have had on the conservation of European forests.

We, however, are still young, and our future is all before us; forest land is yet abundant in all the provinces of the Dominion. It is not a very serious matter to urge the appropriation of a sufficient number of acres of forest as a state reserve for the teaching of forestry, and the oreation of a fund for its support. Now, there is no need of dolug anything in the way of money doles, as a vote of about four townships, on a block of woodland of twelve miles square, would meet all the requirements of the case. An establishment might be begun for twenty students, which would steadily expand to one hundred. Taking the capitalized value of the 92,160 acres at as many dollars, the endowment would be nearly equal to one thousand dollars per head on a hundred students. Worked on the plan of a high timber productive forcet, an area equal to 600 acres could be cropped annual ly. As fast as the wood was harvested the bare places would be resown for a new crop. Several systems might be adopted by which the relative merits of each plan could be practically tested.
Although the land would not perhaps need to be kept under crop for a longer period than 150 years, many portions could be cultivated so as to yield a crop in periods varying from 35 to 120 years. In the course of a generation every part of the plantation would exhibit new crops under growth, and a convention hold in a tent in such a forest would speak with an authority greater than any institutions of a restriction on the just rights of any. The soil are about to be crowned with success, and that lof the log-drivers of the St. Croix and its tribe-

smaller character thousands of miles away over oceans. Boys at the forest school would see trees in all stages of growth from one to one hundred and fifty years; they would see operations for keeping the land clean, and the upgrowing crop of trees vigorous, analogous in overy respect to the weeding of farm crops. Not only so, they would learn to bear their part in the work, and when in after life they found themselves engaged as lumber merchants or farmers, they would know how to crop and plant land, so as to avoid waste, and increase the revenue of their country. What farm of 100 acros is there that would not be better for having upon it at least four per cent. of wood land which might become the preparatory training ground of the future forester? The value of such little scraps of wood on a prairie soil is great, apart from any direct commercial result from sales of wood. In the hot summer suns cattle love shade; and their influence in the storm and the wind is none less valuable; In the older Canadian settlements a very large percentage of the agricultural land is wooded. and all that is necessary is to preserve by replanting and judicious cutting what romains.

What is needed most is a forest law for every province, for regulating the cutting of timber Every lumborman should be required to hold a license to cut under well defined conditions of cropping and replanting. The law need not be vexations either in letter or spirit, but just and liberal in all its provisions. There are even new ample woodlands in Canada, but at the present rate of slaughter they could not romain to us long. Five years' experience would develop an immense amount of interest in the new system. The forests of Quebeco might be made to yield a revenue large enough to emancipate her from the enormous burden of debt she carries. In India the revenue in 1870 from forests was £357,000, giving a not income of £52,000, or 148 per cent. In 1880 it was £545,000, with a net revenue of £215,000; that is, the revenue had increased 50 per cent., while the charges increased to only eight per cent. India has 9.820,000 acres of state forest reserved, 2,493,000 acres of which are protected from fire, and from cattle and sheep grazing. They are now in a condition to reproduce themselves under the natural system.

Australia is fully alive to the importance of the subject, for ten years ago an act was passed authorizing the payment of £2 per scre to land owners in certain districts of South Australia to form plantations of trees. In 1875 a Forest Board was constituted, and certain districts of the colony were formerly defined as forest reserves. In 1878 a Forest Act was passed, and a Conservator of Forests was appointed. Last year a quarter of a million trees were planted out, and the forest revenue amounted to £6.51? -of which £1,380 was for timber sold—sgainst an expenditure of £6,200. A profit of only £317 is not to be sneered at; it is something that a department of State should pay its way. India did not move in the matter-till 1867, and it is only ten years ago that legislation was attempted in South Australia, a colony one eighth the population of Ontario. Not only do the Forest Department in each case pay their way, but manage to make a revenue. Any one visiting Baden-Baden cannot fail to be struck with the great beauty of the valleys of the Oos and the Murg, and the forests in the immediate neighborhood, which furnish asplendid example of the successful working of forest culture as carried out in Germany. As an example of private forests, which are managed in much the same way, those of Prince Furstenburg, near Rippoldsau, may be mentioned.

Our neighbors the American are waking up to the importance of this matter, and in 1881 Dr. Hough visited the forest schools of Europe, with a view to establishing a similar institution on this side of the Atlantic. We are accustomed to flatter ourselves that we are shead of the Americans in educational matters and also in public spirit. The Americans have never very seriously disputed the claim, but if the fore country of Canada allows them to take the lead in this matter the claim will certainly not be strengthened. Under any judicious system of management the annual yield of Canadian woods can be increased without any actual

of a country is not for a generation, nor for a the solution of the important problem of the theory and practice of all systematic manager ment in Europe is that the annual yield of the forest should represent the earning of the yea only, and not any portion of the capital. Canadian Manufacturer.

THE MIDLAND AND LUMBER.

The Orillia Packett says that at a special meeting of the Town Council, held on Frida ovening, June 8th, the Mayor road the follow ing letter he had received from Mr. Cox, ma ager of the Midland Railway :--"We have bee in communication with the Messra R. & G Strickland in reference to the removal of the Bradford Mills to some point on the Midland. We have suggested to them Orillia, and they have pointed out to us difficulty in bringing logs from the Black River to Lake Couchiching over the Portage Company's tramway. If this difficulty were removed Mr. Strickland says all their timber on the Black River, about 150 million feet, could be brought to Orillia, which would be the best point to manufacture at. They suggest that the town of Orillia, and our selves ought to take steps to connect Lake St. John with Lake Couchiching, by a canal, which would at once open a water highway for all the productions of the forest on those waters, which are reported to be very extensive. It seems to me that the idea is a good one, and it is strange that Orillia has not taken action in the matter before, instead of allowing all the forest produced to go past them, by way of the Severn River to Georgian Bay; and Muskoka River to Gravenhurst. Mossra Strickland think, to necomplish this end the outlay would not exceed \$30,000. My object in writing is that if you think it advisable, I would meet a committee of your Council, and would invite the Messrs. Strickland to attend, who are now the holders of the Dominion Bank limits, Thompson Smith limits and Hilliard limits, which are all tributary to the Black River, and if the mill was moved to Orillia they would pay out annually from fifty to sixty thousand dollers, and give employment to a large number of men.

His Worship said he had been speaking o the matter to Mr. Scadding, had told him the mills would be larger than those of the Longford Lumber Company; Orillia would also be made the distributing points for the shantics. In reply to Councillor Miller, he said the Council could grant no aid beyond the corpor ation limits; but the Council had power to remit taxes for ten years, and, with the sanction of the freeholders, of granting a bonus. Councillor Jupp said the Railway was interested in the matter. The Reeve did not care who was interested, so long as it was for the benefit of the town. He would not vote bonus for anything; but favoured appointing a committee to confer with the applicants as to what encouragement might be given them. It would not be for Mr. Tait to remit taxes to a new enterprise and continue to tax him. Councillor Thompson said the new mill would not interfere with the home market of Mr. Tait, except for slabs, and the latter could not meet the demand for them. It would be better to receive their proposel, before discussing what could be given. Councillors Miller and Mainer thought it would be preferable to have them meet the whole Council, but the other members thought the smaller the committee the better. On the motion of Councillor Thompson and the Reeve, the Mayor was requested to name a committee and communicate their action to Mr. Cox. Worship named the Reeve, Councillors Miller. McKay, Thompson, and himself.

BI-PRODUCTS OF LUMBER MILLS.

The Canadian Manufacturer says:

"To Messra. H. B. Rathbun & Sons, of Descronto, belongs the credit of being the first, in Canada at least, of practically solving the problem of how to utilize the waste from saw mills, and turn the refuse into bi-products that have a marketable value. They have establish. ed chemical works adjacent to their mills, and we give a condensed account of the visit of a correspondent of the Napanee Bearer to the works :- "It is now admitted these experiments

contury, but for all that are yet unborn. The utilization of waste material has at length been reached. It has been demonstrated that from the sawdust of the big mill can be extracted scotte acid, wood alcohol and tar: that the charcoal can be disposed of for the manufacture of gunpowder, and that as a bi-product, sufficient illuminating gas of an excellent quality can be produced to light the village and its factories. The chemical works are new being enlarged for this purpose, an excavation is being made for a gas-holder and mains, and it is expected that the whole will be in operation early in August This department is under superintendence, and the whole of the experiments have been conducted by Goorge Walker, formerly of New York," The article on "Bi-products," to be found on front page, treats of many mora in stances in which so-called refuse matter is capable of utilization, and the subject is on vell worthy of consideration."

> "Lumber mills have many bi-products which rid to wasto for want of some cheap and ready mode of converting them into useful and salcable articles. Such are sawdust and shavings. It may be confidently predicted that in the near future uses will be found for all the surplus shavings and sawdust now made. It is only a year or so since car wheels were made of paper mache, and why may not sawdust be so changed by mechanical and chemical manipulation as to become equally useful. A few years ago a great cry was raised at Minneapolis on account of the accumulation of sawdust. Notwithstanding that much has been used for packing, stable bodding and other absorbant purposes, there is a large quantity yet to be utilized. Converted into charcoal by the addition of sulphuric acid. it would be a valuable accessory to the farmer's stable manure heap, as tending to convert the free ammonia of the litter in sulphate, and the charcoal itself has a decided value as a fertil.

THE MINNESOTA SITUATION.

Sr. PAUL, Minn., June 4.-The logging sity. ation has not materially changed during the last week for the drivers, and prospects have grown worse rather than better, but the lumbermen do not yet despair of getting some of the logs out that are now reported heng up. The logs are pretty sure to come out of the Rum river, except those on the West Branch and Hillman Branch. The West Branch logs have moved down only about six miles, but heavy rains will bring them all right. The logs are reported hung up on the Willow, at Prairie, Platte and Swan rivers. The local mill owners liable to be most incommoded by the prevailing situation being Morriman, Barrows & Co., and Camp & Walker. The logs which have got out into the main river are moving slowly. jam fully four miles long is reported at Aitkin, and another quite unusual is reported at Grand Rapids. There are probably 80,000,000 to 100, 000,000 of the whole cut of 500,000,000 that stand a chance of not getting out. There is no apprehension, however, that the crop will not be ample for every demand of the mills. The cut was an unusually large one, and for the present some of the lumbermen are willing that the logs shall be hung up. The sawing season commenced fully three weeks later than a year ago, and even with the aid of three new mills two of the three thoroughly equipped and capacious mills, the season's cut of lumber does not promise to be larger than a year ago. Logs in the drives tributary to Duluth are hung up still Before the water grew so low a few millions got out, as follows: On the Nemadji, 5,000,000 to 10,000,000; on the south shore streams, 500,000; on the St. Louis below the rapids, 5,000,000; above the rapids, none. About 15,000,000 have been towed to mills from the north and south shore camps, and more will follow. About 17,-500,000 feet are hung up. Advices from the Chippowa River, in Wisconsin, say the general outlook for the drives is about the same as in former years, if anything a trifle better. Most of the drives on the tributaries are hung up, except on the Yellow river, where they are doing fair work and have the run down to within sixty miles of the mouth. There is a lack of water on the Deer Tail, Brule, and north and south forks of the Flambeau. Several

taries are undoubtedly hung up for the want of water, and unless there is considerable rain they cannot possibly reach the boom. At present there have been about 125,000,000 feet received in the boom from Pokegema, Groundhouse, Lower Keitle river, Sand Creek, Chicoq Brook, Main St. Croix, and the south fork of the Olam. The Namekagon, Moose, Snake and Orotty Brook logs are running in more or less numbers. Lumberman's Gazette.

NOTES ON WARPED WOOD.

It is very often found that wood which in the board or plank is perfectly straight, or appears to beso, will twist and wind in every conceivable manner when cut up into long, narrow lengths, or cross-cut into short, broad panels. When wood is "winding," the only remedy, says Amateur Mechanics, is to plane off the high corners and make it true by reducing the thickness but if it be simply cast (one side hollow and the other round), the defect may be easily got over. If the man, by working on some other portion of his job, can let the defective pieces stand for a day or two, then by placing the wood "hollow side" down on a plane surface, or by putting two such boards one on the top of the other, with the hollow sides facing each other, the wood will draw straight without any more trouble. It is always best, when possible, to work wood in its natural state, as even if the tendency to cast be overcome previous to working it, there is always the probability of its returning to its normal condition. Some men when pressed for time, heat the round side on the stove. This does indeed make the wood miraight, but there is a great risk of opening and splitting under this toasting treatment, and this Biability is very much increased if the wood be at all shaky. If required the wood can at once be straightened without this risk, by damping the hollow side with water, when the expansion of the fibre on that side pulls it straight. It sometimes happens that a piece of wood of some considerable width, such as a carcase qui or a wardrobe panel, has to be reduced from ? inch to hinch thickness. If this superfluous wood be all taken off one side, that side will become hollow, whereas if it be taken off equally on both sides the wood remains as before. In veneering panels, etc., it is always best to voneer on the outside, that is the side opposite the heart side, the reason for this being that vencer is apt to swell with glue being laid on, and must therefore contract after it is fixed. As the heart side has always a decided tendency to curl, the two forces counteract each other, and the wood remains the same. For this reason, it is always best to inlay on the outside.

CULTIVATION OF TIMBER.

We take the following from the Builder:-."How fatal are the results which attend care less indifference on this point is singlarly shown by what has followed in Italy on the disforesting of the once well-wooded peninsula. Not alone have the recent terrible inundations in the north of Italy been directly traced to this cause but the fatal aria cattira, the poisonous breath of the marsh lands, which has within twenty years or so invaded almost every province of the reninsula, now reigns supreme, driving from the once fertile plains thousands of the unhappy inhabitants. Here we see the direct influence of false economy in this one direction. When we consider, in addition, that Italy could undoubtedly, by proper management, grow a large portion of the timber which at present she has to import, we see another direction in which a false sconomy has impoverished and impoverishes an already poor nation. England, with out having reached this sad cosition, cannot be raid to be beyond blame. There exists in our country many a broad stretch of land which, by the action of science, might be rendered productive, and at the same time beautiful. The growth of timber is not of a nature to tempt the speculative demands of modern private initiative; it is for this reason that it behoves the Government, or at least, local authorities, to take up the question. They, at least, standing virtually independent of the consideration of immediate gain, are the only fit instruments by which such work can be done; but the system once set in order, the returns, it is evident, will out the world. Price 25 cents a bottle, out having reached this sad position, cannot be raid to be beyond blame. There exists in our

be no less regular, even more so than from the ordinary sources of profit. A close study of the matter—an enquiry into the admirable methods adopted on the continent, in France, in Belgium, and in Germany-would form an interesting subject of enquiry either for some Government commission or for some privately appoint ed body. The question is one of something more than passing interest. Whence are we to obtain our supply of timber? Nature unaided will soon come to be able to satisfy our demands; but we have here another of the many instances where science intelligently directed can solve the difficulty, and thus once again be of the utmost service to the world, not alone practi-cally, but resthetically."

REMARKABLE VIADUCTS.

What will be the highest viaduct in the New World is the one new being made (and near completion) for the New York, Lake Erie & Western Railroad over the Kinzua Creek, four miles from Alton, in McKcan county, at a height of 2,100 feet above the sea level. This work, designed by Messrs. Barnes & Pugsley, will have a total length of 2,031 feet between the abutments, and a height of 301 feet between the level of the rail and the bed of the river. The line is supported on twenty straight piers of wrought iron work, 61 feet apart. The construction requires nearly 4,000,000 pounds of iron, and 7,000 yards of masonry, and the cost is about \$300,000. This bridge, exceeding by sixty feet in height the Niagara Suspension Bridge, and by forty-five feet the Portgage railroad bridge, was recently stated by the Scientific American to be "the highest in the world." But this title rightly belongs to the railway viaduct of Garabit, in France, now being erected over a river. The locality is in the department of Cantal. This bridge, planned by MM. Banby & Boyer, and constructed by M. Eiffel, has a total length of 565 metress (say 1,880 feet) and near the middle of the great centre arch (which is the most remakable feature) the height from the bed of the river to the rail is 124 metress, or 413 feet. A good idea of the height is given in La Nature, where it is shown that Notre Dame with the Vendome colum placed on the top of its towers would clear the arch. The visduct was begun in 1881, and it is to be completed next year. It is estimated to cost about 3,000,000 francs.

Two Cribs Broken Up,

MONTREAL, June 12.—In the gale yesterday afternoon, two cribs of Messrs. Calvin & Son's rafts were just descending the Lachine Rapids, and it was only with the greatest exertion the rafts were navigated through the dangerous channels of the rapids. On arriving opposite Nun's Island, however, the wind increased in force and most of the cribs comprising the rafts were blown considerably out of their course, several nearly going ashore on St. Helen's Is-land. Two of the cribs became unmanageable just above the Victoria bridge and swinging with the current were thrown against the piers of the bridge and broken up. The crash each time is said by the raftsmen to have been tremendous, all of the timbers being separated, and the men, of whom there were about a dozen on each crib were thrown into the water and had a hard struggle for their lives before being rescued.

WHAT EVERY PRESON SHOULD KNOW.—The grand outlets of disease from the system are the Skin, the Bowels, and the Kidneys. Burdock Blood Bitters is the most safe, pleasant, and effectual purifier and health restoring tonic in the world. Trial bottles 10 cents.

Advice to Mothers.

The American Hotel, BARRIE, ONT.

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BATES REASONABLE, CENTRAL LOCATION, FREE BUS TO AND FROM ALL TRAINS. Errory accommodation for Commercial and LUMBERMEN.

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POSITIVELY CURED.

All sufferers from this disease that are anxious to be cured should try Br. Kisamer's Celebrated Communication Pawders. These powders are the only preparation known that will cure consumption and all diseases of the Threat and Lungs indeed, so atrong is our faith in them, and also to convince you that they are no humbur, we will forward to every sufferer, by mail, post paid, a Free Trial Box.

We don't want your money until you are perfectly satisfied of their curative powers. If your lifelis worth saving, don't delay in giving these Powders a trial, as they will surely cure you.

Price for large box \$3.00, sent to any part of the United States or Canada, by mail, on receipt of price.

ÀSH & ROBBINS.

poople are always on the lookest for chances to increase their earnings, 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 g. 1s to work for us right in their owa localities. Any one can do the work properly from the first start. The business will pay more than ten times ordinary wages. Expensive of the further ordinary wages. Expensive of the further ordinary wages. Expensive of the work, or only your spare moments. Full information and all that is needed sent free. Address Stikson & Co., Portland, Naine,

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Unlocks all the clogged avenues of the Bowels, Kidneys and Liver. carrying oil gradually without weakening the system, all the impurities, and foul humors of the secretions; at the same time Correcting Acidity of the Stomach, curing Biliousness, Dyspepsia, Headaches, Dizziness, Heartburn, Constipation, Dryness of the Skin, Dropsy, Dimness of Vision, Jaundice. Salt Rheum, Erysipelas, Scrofuls, Fintering of the Heart, Nervousness and General Debility; all these and many other similar Complaints yield to the happy influence of BURDOCK BLOOD BITTERS.

Samula Bo' less 10c: Resular size \$1.

Sample Bo' les 10c; Regular size \$1. For sale by all dealers.

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BREAKFAST. ... 144

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the name of the COMMUNICATIONS INTEREST THE CONTROL OF THE CONTROL

The CANADA-LUMBERMAN is filed at the Offices of MESERS, SAMUEL DEACON & Co., 154 Leadenhall Street, London, England, who also receive advertisements and subscriptions for this paper.

PETERBOROUGH, Ont. JULY 2, 1883.

RECENTLY 8,000 codar logs were seized by the United States officials, at Newport, Arkansas, on the charge of having been cut from government land.

THE Erie Car Works, at Erie, Pa., have one of the largest stocks of seasoned lumber on hand ever collected in this country, and are now very busy turning out cars on orders.

THE automatic fire "prinkler is becoming very popular among furniture manufacturers and other wood-workers in the United States. The Grand Rapids, Mich., furniture factories are reported to be equipping themselves with the

THE Brandon correspondent of the Winnipeg Commercial of June 19th says :- Owing to the difficulty in driving logs down the river from the limits, Leacock's saw mill is still idle. For the same reason Mr. Grigg is not pushing his mill forward as rapidly as he would have done.

THE scarcity of timber at Darien is becoming a very serious matter with those manufacturers who have contracts and are obliged to meet the extreme prices demanded for that which offers. There have been sales at prices equivalent to \$20 for 1,200 feet average, a figure not before touched in years.

THE accumulation of sawdust in St. John river, New Brunswick, has become so serious a matter that it threatens to obstruct navigation for large vessels passing up to Fredericton, and a local paper calls upon the authorities to en force the law against allowing dust from the mills to fall into the stream.

THE Wood-Worker says :- The band saw mill is evidently the mill of the future where valuable hardwoods are to be cut. Even now the novelty of this style of mill has almost worn off, and they are being set up in nearly every part of the country. That this mill is looked upon as the coming mill is evidenced by the fact that there are not less than half a dozen prominent machinery builders who have recently brought them out, or are preparing to.

A written in an exchange is correct when he says that: "In buying wood-working machinery, the very best rule for guidance is that old one 'the best is the cheapest.' It don't pay to buy cheap materials or cheap workmanship, and cheap machines generally mean both of these. Cheapness is apt to prove an expensive investment in the long run."

THE Bobcaygeon Independent of June 22nd, says .-The first drive of the season has passed through, under the command of Mr. Frank Bell. The drive contains 28,000 logs, which were cut in the township of Anson and the neighborhood of Minden. Mr. Bell is noted for his quick runs, and is this year two weeks carlier than usual.

THE N. Y. Timber Trades Review says :- At Chapman's shovel handle factory, Oxford, Me., they turn out about 150 dozen handles per day when in full blast; use all the ash they can get -from 150,000 to 300,000 feet a year. All their handles have gone to the same man for fifteen years, Jones, of Gananoque, Ontario. They saw out about 400,000 shingles this sesson.

During the last few years a number Mobile, Ala, saw mills have gone into the box making business, or rather, have made it a branch of their business. This branch has increased to enormous proportions; so that now it gives work to several hundred men. The boxes are chiefly for the shipment of early vegetables and

FURSTENFELD, Germany, boasts of the oldest tree in that country. It is a huge Linden, behoved to be 1,000 years old, growing at the back of the village church, in the midst of the tombs of two centuries. Its trunk is fully fifteen feet in diameter, and its twisted branch satretch out far and wide, seemingly covering the entire inclosure. It is still growing, and is one of the sights of that section of Germany.

Some of the loggers in white cedar timber on South Slouth, Coos county, Oregon, have adopted a new mode of getting the timber to market. The logs are hewn into square pieces from six to twenty feet in length and not less than six by six inches, in the woods, and hauled to the landing where they ship them up the bay on lighters and thence to San Francisco. They receive \$20 per thousand feet for these pieces on the wharf at Empire.

A STURGEON Bay, Wis., paper says that Chicago commission men, who buy railroad ties in Door county, are getting very particular as to how ties are made. They will not receive any, even on contract, that are not eight feet long' six inches face and sawed at both ends; otherwise they are culled. One shipper who had 4,-000 ties to deliver on contract was obliged to set men to sawing off the ends at a cost of two cents each stick-something that he did not expect when the contract was made.

THE Winnipeg Commercial of June 19, says: The saw mills have not much more than fairly got to work, and as the demand is lighter than was anticipated they are not running so strong as they otherwise would. An immense amount of lumber is reported as on the way to this market, via Port Arthur, which will tend to make business in the lumber line quicter. The furniture factories are kept going pretty well. There cannot be said to be any particlar rush, but still a healthy trade is being done.

THE cases in which plug tobacco is packed are made almost entirely of sycamore. This wood is valuable for this purpose, as it will not impart any smell or taste to the tobacco and as it will not absorb moisture readily. This appears to be about the only use which can be made of sycamore lumber, which has the very serious defect of warping badly. Were it not for this, it would be a valuable wood for many purposes, as the lumber is large and clear of knots, and there are very large amounts of it in Ohio, Indiana and Kentucky. Perhaps, in the future, some sure method of so treating lumber that it will not warp will be devised, but until then then sycamore will be useless for building purposes.

THE Northicestern Lumberman says :- The most cheerful notes come from Ohio, Indiana and the new Northwest. In the two olderstates there is an era of improvement in town and country, and new buildings are requiring a large amount of lumber. There are exceptions to this general rule, to be sure, but generally Ohio and Indiana are very prosperous. The progress of new settlements in western Minnesots, Dakota, western Iowa and Nebraska is calling for a heavy volume of lumber, and the Wisconsin and Minnesota lumbormen are reaping the advantage of it, to a greater extent than the trade hero. The railroad mills in Wisconsin are particularly busy supplying the western demand.

THE Halifax New Era says :- The market during the week has been quiet and slack in all kinds of lumber. There have been very few arrivals and no exports except a few thousand feet to the West Indies as deck leads. No new orders have been received and there is apparently no demand in any market. Prices are weak at our quotations and unless some change in the demand speedily transpires prices must decline especially for the lower grades for which this market has become a general rendezvous, owing to the fact that we have no official inspector or surveyor of lumber. In consequence we are the recipients of such lumber and shingles as other markets would reject. We are convinced that it would be to the advantage of the public if some rule were established by which our lumber interests—no unimportant item in our revenue-should be placed under proper mansgement

In reference to the statement, in our Toronto correspondence in last issue, that lumber for Parkdale, carried by the Midland Railway, was charged \$5.00 per car load, extra, by the G. T. R. R. and C. V. R. R., and that serious delays occurred between Toronto and Parkdale, it is gratiying to learn that as soon as Mr. White, traffic manager of the Midland Railway became aware of the state of affairs he proceeded to Toronto, and made arrangements which will enable dealers in Parkdale to receive lumber, etc., over any portion of the Midland system at the same price per car load as dealers do in Toronto. As far as the excess referred to of loading over the standard weight per car load is concerned, shippers should abide by the acknowledged and contract standard. The management of the Midland Railway has never been considered shabby in this matter, where only a few hundred feet extra were concerned, but when the excess swells over a thousand feet, it becomes too much of a burden to be carried without challenge. Shippers must admit that there should be a limit somewhere. As to the question of the rate from Midland to Toronto those interested should interview the Midland Railway authorities and state their case.

SIMCOR, ONT.

To the Editor of the Canada Lumberman.

SIR,-The lumber trade in this county is booming, and we are sawing five millions, be sides supplying 50,000 white oak railway ties to the Great Western division of the Grand Trunk. London, St. Thomas, Woodstock and Toronto take most of our lumber. Toronto takes hardwood, and we send long pine and oak bill stuff to Buffalo. There are still twenty to twentyfive millions per year made in this county, but a few years will exhaust it. The small second growth, eight to fifteen inches on the stump is being cut now.

Yours, &c.,

A. McCALL. Simcoe, Ont., June 22, 1883.

MILL REFUSE.

It will be remembered that some months ago the village of Plattsburg, N. Y., brought a suit in the New York state supreme court to enjoin Chauncy and Benton Turner, owners of a large mill at that place, from allowing sawdust to fall into the Saranac river. It was charged in the complaint that the mouth of the river, which was once a clear stream, was choked with say: dust, which generated a foul gas, arrested the outflow of sewago, and befouled the river within the corporate limits, thus endangering health. The referee has decided that the plaintiff is entitled to a decroe, perpetually restraining and the pine, and the dried grass feed a future con-

enjoining the defendants, their agents, etc., from suffering or permitting to fall into said river at their mill any sawdust or refuse matter, and judgment was accordingly directed in favor of the plaintiff with coats. The Turners will, therefore, hereafter have to provide themselves with a refuse burner, or, what would be better, with a chemical works attachment, like Rath. bun & Sons, of Deseronto, Ont., by which the refuse could be convorted into articles of commerce at a profit.-Northwestern Lumberman.

WERE THE PLAINS ONCE TIMBEREED? This has been a question of no little speculation and comment, and we now come forward with additional "points" on the subject. Last week we were out with a survey party in town 27-2 east. The land was undulating, composed of gravelly loam with a noticeable admixture of clay. The numerous brooks had clay banks with stony and gravelly bottoms. Timber beech, sugar, maple, and large hemlocks, with an occasional birch, white ash, ironwood, etc. Forty-four years ago the United States survey found the same land "third rate, timbered with poplar, birch, hemlock, etc." Three-fourth of the monuments erected by the United States survey were upon poplars from 6 to 10 inches in diameter. In a straight run of five miles we found but one poplar, and that was a gigantic dry stub nearly thirty inches in diameter. We imply from this that the character of the timber has changed with the past forty years, and now we will prove it. (1) The beeches and maples are young,-averaging not more than 8 or 10 inches in diameter in this particular locality. (2) The hemlocks are of monstrous size; -36 inches and over. (3) All the large hemlocks are either hollow or very shaky, while very many are dead. (4) Brooks 4 links wide and larger were found where none existed 44 years ago. (5) Further to the north and upon the same soil with a decided admixture of clay, we found a plain covered with a dense growth of poplar and birch with some Norway pine and spruce pine, all of not more than five years growth, with some soit maple, cherry and iron wood sprouts. A few young spruce pines yet seemed to hold nominal possession, while the blackened stubs of the once gigantic white and yellow pine give the remainder of the history written by fire. (6) The spruce pine will withstand a considerable amount of fire without injury, as attested everywhere by their blackened and charred trunks and green tops. Fire seems absolutely necessary for the germination of its seeds, which by the hundreds of bushels lie in the soil of the plains until' a fire sweeps over it at the proper season of the year, when the trees spring up in abundance. We have seen places so thickly covered with spruce pines not more than three feet high that at a short distance it resembles a field of wheat.

What, then, is the history of the plain which we saw covered with poplar and birch? Many years ago it was a forest. Within the last 15 years the land has been denuded of timber by frequent fires.

What will be its future? Should fire not interfere, the poplar and birches will grow in 75 years to forest trees, the maple, seh and ironwood sprouts will grow likewise and become more

Poplar almost invariably dies at the end of this time, and birch is always crowded out and killed by other timber except in spots peculiar ly adopted to its growth. In 50 years more the maple, beech, linden, etc., will have gained the ascendancy, and for the next two hundred years we will see a magnificent forest, where was once a parched and barren plain. It has taken hundreds of years to make this change, but it has nevertheless taken place.

Suppose that at irregular intervals of from two to ten years fire continues to sweep over this place. It licks from the hills the scanty deposit of molud from the falling leaves, and digs deep into the peaty soil of the swamps.

Death and desolation seem to reign supreme, but the spruce raises its head defiantly and thrives amid such scenes. The stumps of the charred caks send up shrubby sprouts that struggle on until the next fire lays them low. The resin dropped from the trunk and limbs of

The potash and other soluble flagration. clements left in the form of ashes are washed away by the passing shower, and under the of fire the vegetable elements of plant nutrition disappear, and a waste is left covered sparingly with spruce pine, while stunted moss ineffectually ondeavors to hide the barron soil, and prepare the way for higher forms of vegetation. Although a greater portion of the so called plains of northern Michigan is covered by a thick sward of hardy grass and herbs, we have seen knolls of hard clay as well as light sand covered with scarcely anything but this moss, showing that the character of the earthy or mineral portion of the soil has nothing to do with this condition. The reclaiming and successful cultivation of a large share of the plains is no longer an experiment but an established fact, but from what we have noted above it follows that every square foot even of the poorest of this once supposed desort will become of service to the agriculturist, and that at no distant day .- Oscoda County Mail.

CINCHONA CULTURE IN GUATRMALA.

President Barrios of Guatemala has made arrangements to try the experiment of cultivating the cinchona tree, and Mr. W. J. Forsyth, a planter of Ceylon, who has ridden a thousand miles through Central America, exploring the country to discover the best site for the plantation, is now in this city on his return to East India to select the seed for 5,000,000 trees. :Speaking on the subject, Mr. Forsyth said: "The rapid increase in the number of uses to which the bark of the cinchona tree is put, not only for the manufacture of quinine and an ingredient in the substitute for hops, but for various commercial purposes, induced President Barris to try this experiment. Although the cinchons tree is not a native of India, but was introduced there in 1879 by the celebrated botanist Clement Markham, at the instance of the British Government, the culture was so profitable that not only has the original investment of £150,000 been repaid, but the trees have been valued at £1,000,000. There are many varieties of the cinchona. One is the Legeriana calisaya, which is rich in alkaloid. Another variety is the officinalis, the bark of which is known as crown bark. Other varities are condamanca and the succirubra. The last named is rather . larger than the others and more robust and of quicker growth, but not so rich in alkaloid though it yields plenty of bark. These barks are generally known to commerce as Peruvian bark, though not cultivated in Peru nor grown there to any great extent. The trees are planted from three to four feet apart, the mature in about six years.

There are three methods of treatment in cultivation. One is by thinning out, or selecting the largest trees to be retained. Another is by coppicing, which is simply cutting the tree down tto a stump and permitting the shoots to grow, At the harvest the shoots are cut off. The third method is called the Melver system, and consists an taking the bank from a part of the matured tree and mossing over the stripped place until the bark is renewed. If the mossing is carefully done the back will renew itself continually. The bark is sold at 2s to 13s a pound, and is sold readily, for the supply has never yet been too

"The cinchona tree requires a tropical climate and a plentiful rainfall. It would not grow in the United States, but can be cultivated in Mexico. The trees require careful cultivation. President Barris gave me every faculty to explore the country, and he has great hopes of the success of the experiment in utilizing the vast amount of soil in Central America not now under cultivation. They raise coffee there for export, but their methods of cultivation are Fortunately the deseases of the coffee plant which make the culture so precarious in India do not appear in Central America."

NEW USES FOR WOOD.

It does not seem safe nor wise, now, to de clare any kind of tree worthless. Even the despised basswood and cottonwood trees have become valuable. It may be, the so called goodfor nothing sage bush, which covers the bad lands of the western states and territories will be found to possess some valuable properties, A paper ball can now be made so solid that lass

and then it will be elevated to a place among the now valuable trees. "Late inventions and discoveries have revealed the fact that the finant polish and strongest household furniture can be made out of paper. It can be pressed so hard that no instrument short of a diamond can scratch it—and it can be given the finest shados in imitation of wood, and produced cheaper than walnut, mahogany or ebony. And late discoveries in paper-making established the fact that cottonwood makes the whitest and atrongest fibre pulp yet manufactured out of wood. There are vast quantities of pulp imported, and some newspaper men are clamoring for it being done free of duty. Paper mills in Delaware, Pennsylvania, and other northern states are shipping thousands of cords of noular wood from Chowan river in North Carolina, one mill in Delaware contracting for 30,000 cords. This is costly, and shows conclusively that our rich lands, where cottonwood grows so luxuriantly and of which in many cases the black walnut has been denuded to make furniture in England, may yet become profitable fields to raise and manufacture paper furniture, car wheels, and houses. Something has to take the place of pine, walnut and cherry in house-building and ornamental wood-work, and the probability now is that the cottonwood is the coming tree. It is easier propagated, a more rapid grower, is exempt from enemies and parasites, and is a native almost everywhere. Forestrymen have troubled themselves about the future timber to supply the industrial pur-The best of car-wheels are made of paper, which stand the weather and wear longer than iron, and are less liable to accidents from breaking. If they will stand in this most difficult trial, paper can certainly be used in almost any place. And if it can best be made of cottonwood pulp, who doubts that this abused and derided tree is bound to come to the front and yet become one of the most popular timbers for tree cultivation."-Iowa State Register.

Woods life in Maine.

Says the Bangor Whig:-"An interesting souvenir comes from the lumber woods of the north, in the form of a communication written very lengthy on a fine sheet of birch bark, and incased in an envelope composed of the same material. The letter is dated Mattamiscontis, No. 2, range 7, about 15 miles from any settlement, in a lumber camp where Mr. John Mc-Gregor has a crew of men engaged in cutting spool wood for his factory. The writer gives some idea of how men live in a lumber camp: "Our camp is huilt of rough logs of poplar, laid up on the sides about four feet, and running up to a pitch in the centre of about 10 feet. The roof is covered with cedar splints four feet long and laid the same as shingles, making a very good covering, though not very tight. The floor is made of poles laid on the ground. We have two stoves, one a large heater, three feet long, and the other a cooking stove. For sleep. ing apartments we have a berth made the length of the camp, which is 19t feet, and accommodates 14 men. In front of this and on a range with the stove is the 'deacon neat,' of the same length as the camp. Our living consists of pork and beans, bread and cookies, ginger bread and old-fashioned doughnuts, dried apples, beef, codfish, mackerel, tea, and molasses. breakfast we have pork and beans hot from the oven, with ginger-bread, cookies, and tea. For dinner, which is eaten in the woods, we have beans, doughnuts and bread, with tea, and occasionally beef. For supper we have codfish or mackerel and potatoes, with fried pork. We get any amount of fresh perch and pickarel We close by the camp, in Mattamiscontis lake. Firh forms a prominent item in our diet."

THE PAPER CRANK.

The Northwestern Lumberman says :- The paper crank seems more energetic with the approach of warm weather. In the direction of paper there is nothing that he is not anxious to do except to tell the truth. He carries his theo. ries to a ridiculous extreme, often failing to temper them with practicability. The paper tie man, who claims so much for his own hobby, is quoted as remarking :-

"Almost anything can now be made of paper.

nothing can indent it but a diamond tool. Car wheels are now made of paper. Its strength is attonishing. You can suspend 339 pounds from a Bank of England note and it will not part. Bath-tubs, pots, plates, knives, forks, cooking stoves, printing-presses, steam engines and chimneys are made of paper nowadays, and there is absolutely no limit to the uses to which it may be put."

A part of this statement any observant reader would be ready to admit, but the rest of it is sheer nonsense. Car wheels are not made of paper, but paper is an element of their construction. It is sandwiched between iron plates, and enclosed with a tire, being also securely bolted in position. It is not a wheel-it is the filling. The mythology about paper stoves, printing-presses, steam engines, ad libitum, may be thrilling literature, but the paper crank can-not produce the originals. The Lumberman never expects to be printed on a paste-board press, nor to eat bread baked in a papier mache oven. To construct a non-explosive steam boiler out of paper plate is also a refreshing suggestion. Probably the chemical combination of paper with other materials will result in producing a large number of articles that will have a practical utility, but the range of that utility must be limited to something. It is not at all likely that paper can be made an entire substitute for wood, iron, atone, coal, and other minerals, but this is a claim by no means too aspiring for the paper crank to make.

MONTREAL ROTES.

The Gazette of June 22nd says .- As regards the local trade, we have not much to report during the week, the only change of importance being the advance of 50c. per M in laths, sales having been made at \$2 on account of the improved demand and scarcity of stocks. A moderate trade only is reported in hard and soft wood. Very little dry wood is now to be had, and the now supplies being green there is scarcely any call for it. As regards the export trade, the shipments of deals from this port have already been about double those of the corresponding period of last year. There is very little doing in lumber on River Plate account. In freights a small vessel has been chartered at 67s. 6d. for East of England coast.

The Creat Northwest.

The great increase in travel to the Northwest, has forced the "Famous Albert Les Route" to put upon its line magnificent dining cars, in which passengers will be served meals second in quality to no first-class hotel, for the small sum of seventy-five cents each.

The Chicago, Rock Island & Pacific Railway, which controls this route, has always maintained a reputation, for giving travellers first-class meals on its dining cars, and in putting on this line the same class of cars, it fills a want that the travelling public will appreciate.

"The Albert Lea Route," is carrying a very large share of the Northwestern travel, and, although early in the season, has commenced to sell tourists' tickets to the various pleasure resorts in a volume sufficiently large to guarantee an immense summer traffic.

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Correspondence Invited.

TO LEASE.

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 lease water power on the most favorable terms, or would erect buildings of any size suitable for factories.

R. & G. STRICKLAND

LAKEFIELD, ONT.

ROCK ELM WANTED.

A Few Car Loads of good ROOK ELM, out into 11, 2, 21 and 3 inches thick, 12ft. length prefered

DUFRESNE & JODOIN, Lumber Dealers, 493, St. Joseph Street, Montreal.

A RARE CHANCE!

Valuable Steam Saw-Mill

FOR SALE.

The Waba Creek Steam Saw Mills, situated on the The Waba Creek Steam Saw Mills, situated on the Madawaska River, one mile from Armyrior. Capacity of Mill, Fifty Thousand Feet of Luminer per Elevations. Capacity of Mill, Fifty Thousand Feet of Luminer per Rivershours. Capacity of Booming Pond, Thirty Thousand Loge. Has Sidings through piling Grounds connected with main line of Canada Pacific Raliway. The Mill is in good repair, having only run a short time, and is well found in all appliances required to run it to the above capacity. There is also a good water power connected with it from the Waba Creek, and good stabiling, Barn, Boarding House, and other buildings. For information, price and terms, apply to Johns Robertson, 581, Seignaurs Street, Montreal, or to James McCuan, Arnprior, who will show intending purchasers the whole property, or to

ALEX. FLECK, Ottawa.

SAW MILLS

TIMBER LIMITS

Logs, Lumber, Store Goods, &c FOR SALE

In the District of Algoma, Ont.

Eighty-Five Square Miles (54,400 Acros) of Limits, Good Pine, First-Class Water Power, Large New Water Mill, Steam Mill, Store and Dwellings.

Canada Pacific Railway now running through part of the property.

For full particulars address:-

WILLIAMS & MURRAY, GODERICH, ONT.



BARRON'S UMBER DRYER

J. J. CURRAN, Inventor. CURRAN & WOLFF, Proprietors for the U.S. 39 & 41, Franklin Street, Chicago.

A. F. BARRON,

Patentee and Builder for the Dominion of Canada.

Office, 9, Corn Exchange, MONTREAL,

Send for descriptive Pamphlet containing list of particle using this Dry Kiln in the United States.

Dyers built and in working order by the following Companies:

James Shearer, Montreal: James Crossen, (car builder), Cobourg, Ont.; Canada Pacific R.R.; Perth, Ont.; Kingaton, Ont.; Pike & Richardson (Coopenge Co.), Chatham, Ont.; and in course of construction, Grand Trunk R.R., London, Ont.; Staining, Schnoor & Co., Staves and Heading, Wallaceburg, Ont.

WORWEST AN BUILDING.

Our contemporary, the Builder, recently gave an interestering article on the Norwegian atyle of building, from which we quote the following extracts: "Having soen other countries of a more advanced culture than their own," says the writer, Mr. P. Lowzow, "the taste for the beautiful was comparatively early awakened, resulting in a desire to give shape and form to their thoughts and ideas, which was must successfully carried out in the well-known and characteristic art of Norwegian wood-carving. Owing to the imperfect implements and tools of that age, the granite was too hard and difficult a material for building and ornamental purposos, and the large forests had to render the necessary material instead. In the time of the Vikings Norway could scarcely boast of any Their dwalling were plain, architecture. generally consisting of but one large room with an earthen floor, in the middle of which they built a rude fireplace, and made a hole in the roof to allow the smoke to escape. It was their rhips that they first attempted to beautify with ornaments, and here their fancy had free Beone.

"After the introduction of Christianity, about the year 1,000, a more developed state of society was established. The first church was built in A. D. 996 of timber, on the same spot where now stands the celebrated Trondhjems Cathedral. During the long struggle between Christainity and heathenism, no progress was made in the building of churches, and the second church was not finished until 1,050. This church was, however, built of stone. About this time Norwegian wood-carving made considerable progress, and many of the timber churches were decorated with ornaments of this kind. In these early wooden churches the walls were constructed by the timber being raised on its ends; 'lio outsides was covered with deals to protect the inmates against the great The nave was supported by wooden pillars, and rose considerably above the side

"Of these ancient and interesting structures there are still a few preserved, of which the churches in Borgund and Hittordal are well known to tourists in Norway. At the same time, considerable progress was made in the architecture of dwelling houses, &c. Each building had its separate use. The number of rooms increased, and they were now provided with wooden floors. It is only within the last century or two that two storied houses have come into use, and are new rapidly supplanting the old ones. During the last centuries little or no attention has been paid to the ancient Norweginn architecture in the construction of new houses; but it is a pleasure to report that during the last thirty or forty years a great revival has taken place. Many Norwegian architects have done great service in re-introducing the old Norwegian style, in which many new buildings have now been built and decorated, and Norway will again respect and appreciate its old timber architecture.

"In considering the later and more modern architecture, we must strictly distinguish between the town and the country. In the town the houses are built on the system of flats, and are usually either three or four stores high. Brick is now by law the material for building in town, and nearly all the houses are plastered with cement as a protection against cold and rain. The last fifty years have also developed a stucco architecture, which gives the brown streets and the houses a bright and clean appearance. But in the country tumber archaecture is still used for churches and dwelling houses. The plan of the residence is, as a rule, simple. In the middle of the house a lobby or small hall is arranged, which forms the means of communication between the rooms arranged around this. As the price of timber is cheap, and rates of wages low, we bud, as a rule, that the houses are built larger than required for actual uso. Easy access is obtained between the different rooms through doors leading direct from one room to another to avoid the cold air in the lobby. Thus a suite of rooms is obtained. which is found to be very convenient and comtortable. Carpets are seldom used, but the floors are painted and varnished, wainscoting is

covered with deals, which is painted or covered The ornamentation and with painted canvas. decoration of the houses outside are obtained through the projecting head-pieces of beams, the projecting roofs, and the elegant open verancaha.

"The present design of a Norwegian modern timber-house presents a large and more than usually comfortably arranged residence in the country. One now is in course of erection at Osterdalen will form the main building in a large group of houses. The floor will be fitted with English tiles to harmonize with the high wainscoting and the painted ceiling. In one of the broken corners of the large parlour is an open fireplace for use in the mild weather in the spring, and in the other a stove for the severe cold in the winter. Wainscoting of wood is arranged here as in the other rooms, and the ceilings are of ornamental woodwork. In the dining-room the side-board is constructed in the wall, which has a small opening through which the dulies are passed direct from the sitchon.

"The house is entirely built of 7 in. timber, outside and inside, covered by deals to resist the cold, which a well-built timber house fully does. The floor beams of the first floor project, after old Norwegian custom, 12 in. out over the ground floor, and support the upper walls. Through this, variation and ornamentation are produced in the elevation, giving the exterior a striking appearance. The high pointed arches of the verandahs under the projecting roofs assist also in this and thus depth and a fine variety of light and shade are obtained. As a rule, the Norwegian timber houses are light and eligant, and produce by their warm and bright color an attractive appearance. At the same time, they are strong and cheap. The price of the timber is low, and the rates of wages are low, so it is possible even for people not so well off to inhabit a good and handsome house. For this reason," says Mr. Lowzow, "I recommend these timber houses for use in England, to have the houses built in Norway and sent here by steamer, where they can be easily re-erected. The total cost of a timberhouse will favorably compare with the cost of a brick house, besides being a much more healthy and comfortable abode."

SWEDEN.

The Stockholm correspondent of the Timber Trades Journal writing on June 2nd, says :-The weather still continues favourable for the loading of the spring fleet, and the first batch of ships, with a few steamers, have already sailed, and as winds have been favorable for good passages, vessels will be commencing to drop in rapidly on your side by the time this reaches your readers. An average tonnage of ships seemed to have arrived at Skutskar, Sundswall and the Angerman River, but the arrivals to date at Geffe, Soderhamn and Hudikswall districts are considerably under the tonnage of last season. The diminution in large steamer cargoes to London, Hull, &c., accounts for the reduction in tonnage.

I mentioned a month ago that a reduction of 20 per cent. in the number of logs cut last winter in the Sundswall and Hernosand districts, as compared with the output of the two previous seasons, was the generally received opinion of the producers, and from further inquines made have no reason to alter the figure given, which, in my opinion, is within the mark. I have also had reports from the Gefie district, to the effect that the diminution in the get of logs last winter, as compared, to winter 1881-82, is equal to a total of 13,000 standards of sawn wood in the case of the large companies alone. while a reduction of 30 per cent, in the case of the smaller concerns is well under the reality. I hope to give you the result of observations in the Ljusne and Soderhamn districts in a subsequent letter.

Floating operations have been prosecuted with a fair amount of success during the last three weeks, but complaints are now rife of want of water in the smaller streams, and without being a passimist, it is quite clear that the present season will be a much worse one than the last in a "floating" sense. It is asserted that the reserve of snow on the mountains is

coast last winter, and consequently that the so-called "fell flood" will be less in volume and of shorter duration than usual. Be this as it may, there is little doubt but that the certainty of a smaller supply of logs than last year, in conjunction with the late spring, has already exercised a curbing influence on the production, which will, in all probability, be some 70,000 standards under 1882 for the district north of Dal River.

At the late meeting of the Hudikawalls Travaru Aktiobolag, a dividend of 10 per cent. was declared for 1882, and a considerable amount carried to reserve. The position of the concern in question has much improved of late years and it now takes a high rank amongst similar establishments. The profits a most of the other large haw-mill companies in Sweden care last year vdry satisfactory, and altogether at was one of the best seasons the trade have had, This year the result will be much less favorable. not only for producers, but for the middlemen, both on your side and this. At least one English firm of the latter description speculated very heavily last autumn.

A SAWYER ON SAWS.

Having served in the capacity of sawyer for a number of years, says J. G. Kinder, in the Attisan, of Cincinnati, I have naturally arrived at certain conclusions, some of them at vanance with those generally accepted. First, I have no use for end-play in a saw-mandrel - would like for some one to give a good reason why he considers end-play of any use. I have no use for a slotted saw. No one contends that a slotted saw will make better lumber than a solid saw, if the latter is cool. I have no use for a hot saw. When it gets hot, be ser put the slot in the filer-that is where the trouble lies. I have no use for inserted tootned saws. Have seen a good many fancy kinds of saws, and from the immense quantity of profanity they have caused to be thrown on an unprotected atmosphere, I get my solution of the cause of the great cyclones in the west in recent years; and I am pretty certain that it is some now wrinkle that I have not heard of that is causing, in pretty much the same way, high waters. Wiggins' storms, etc.

I have no theories to advance against their use. I only feel that a solid toothed saw is good enough for me; and there is no tool made on earth, to my eye, that is as pleasant to look at as a circular saw with that keen, whistling cut, wading through big knotty logs, and standing up to the work like a giant. Every sawyer, I presume, has certain little peculiar ways of managing saws. I have only one crotchet of my own that I will make particular mention of, and I will give your readers the benefit of it, provided, by trying it, they will find it a benefit.

It is pretty clear to me that, no matter how true a saw will run when sharp, you can not always keep them just that sharp, and they are inclined to waver to one side or the other, and this tendency must be overcome with the guides. Now, I file my saw with a very slight inclination to the board; in running, the saw bears slightly but invariably to the inside guide pin. As the saw gets duller, it may incline to cut the board slightly scant. By screwing up the inside guide this tendency will be overcome; and if the saw becomes very dull it may heat at rim, which is a very good sign to file. Now if the saw, instead of having tendency to the board, was inclined to the log, as it became duller, the outside guide pin must be screwed up to overcome this tendency as in the other case, but with the most serious consequences: because you are only forcing the edge of saw temporarilv. out of its true line, and not the collar or middle of the saw, as there is only about ne-sixteenth of an inch clearance for log past centre of saw. And if, in order to make the saw stand up to the work, you have guided the edge oneeighth of an inch out of its true place, it brings the log right against the saw. About this time you will see some blue smoke coming out of the cut, be sending a man to the poud after water to cool the saw, and in a short time will find that some artist has painted in fast colors several little patches of sky-blue scenery all around the collar of saw; after which comes

claim it takes very little science to run a true saw. But when you have a kinked saw, from heating at the column or otherwise, then it does take a scienced hand to control it, there is no rule I known of to control an untruc saw. only the general one for a filer to put a kink in his filling to suit the kink in his saw. The better plan would be to have both saw and sawyer hammered.

SAWDUST.

Mention was made in these columns recently of cork brick, which are light, strong and soundproof. The American Architect suggests that a similar concrete might be made of sawdust, and if the sawdust could be furnished cheaply (in Boston) it is of opinion that such a concrete would probably find an extensive application, desiening floors and partitions, casing water pipes and furring brick walls. If sawdust costs too much for concrete in Boston, it certainly does not at northwestern lumber producing points; and the cost of transportation of sawdust brick would not be heavy. It is somewhat remarkable that sawdust has not been put to some general use. Some attempts have been made, but one by one the experiments have dropped out of sight. A year and a half age, or thereabouts, a gentleman began the construction of a machine in this city for the compression of sawdust into fuel, railway ties, &c. The machine worked satisfactorily, but all at once nothing was heard of the invention or the inventor. Whither they have flown is unknown. Other attempts to make sawdust into fuel have been made, but after a flourish of patent rights on the processes, and a good deal of loud talking the schemes have amounted to nothing, so far as supplying fuel is concerned. It is a pity that so much of the timber that the millions of saws chew up should lie and rot. The mill men are crying that it be removed from their sight. It is generally the biggest white elephant they have on their hands. Senator Invalla. who professes to believe that there is not enough timber in the country to furnish fuel for its inhabitants to exceed fifteen years, ought to go right to work and invent a way to burn sawdust. If he is particularly interested in the protection of our forests such an achievement would amount to a great deal more than awashy talk. If he would do this he would at least get a reputation of being practical, something that his talk about the exhaustion of our forests would never lead one to suspect. The timber yearly converted into sawdust in the United States would make not less than 2,000,000,000 feet of lumber. To make this amount of lumber would require 15,384,615 logs six feet long and 16 inches in diameter. If these logs were placed end to end, they would reach from Boston to San Francisco 13½ times. In other words, the sawdust made in the United States every year, if in logs, would build a solid log fence across America from east to west 18 feet high. That certainly would be a good deal of a wood pile. Now let the men who are feverish because in a few years they expect we will have no timber from which to cut lumber, to say nothing about fuel, in 10 or 15 years, go to work and utilize this sawdust, if they want their names handed down to future generations as public benefactors,-Nort. vestern Lumberman.

THE AUSTRALIAN TRADE.

Mesers. Gemmell, Tuckett, & Co.'s report, dated Melbourne, April 11th, says:-Since last issue the Easter holidays have intervened, causing a check to business, but notwithstanding this deliveries from the storeyards continue unabated for actual consumption. Dealers report un excellent demand for all descriptions of building materials, and certainly the result of late harvest and splendid prospects of the pastoral and other staple-interests of the colony fully warrant the belief that the demand will continue during the balance of the current year at least.

American lumber: At the sales ex Grandee, S. F. Hersey, &c., prices realized are in advance or late rates. Stocks held by the trade are light, and we look for an advance at future sales. We quote for Michigan clear pine, £20 15s. to £16 2s. &d.; Canada do., 11 to 4 inch, £12.7a, 6d. to £17 10a; w. p. shelving, £9 to arranged in the best rooms, and the walls are much less in proportion than what fell on the time for the scientific filer to step in, for I E11 15s.; w. p. ceiling 27 5s. to £9 12s. 6d.;

per m. feet super according to quality. Norwegian and Scotch flooring: At the sales of cargocs ex Zenobia, Marco Polo, &c., rates realuzed are somewhat in advance of those obtained last month, and we look for further improvement shortly. We quote for 6x1; red t. and g., 10a, 9d, to 11s.; Gx14 white, 10s, 6d, to 10s, 9d.; 6x red, 9s.; 6x white, 8s. 9d. to 9s.; 6x red, 7s. 6d.; 6x2 white, 7s. 6d.; 6x8 red beaded, 7s. Gd. to 7s. 3d.; Gxg white do., Gs. 9d. to Gs. Gd.; Gri red do., 5s. 9d.; Gri white do., 5s. 9d.; 4out red and white weather boards, 5s. 9d. to 6s. per 100 feet lineal.

Messrs C. S. Ross & Co. say -- A fair amount of business has been done since last report in nearly every line of building materials, and prices generally have slightly advanced. The deliveries from the yards for wnsumption have fallen off, and the trade report a smaller business than that done for the previous twelve months. Money for building operations can be obtained at reasonable rates, but the demand for tenements is not so active, and speculative building has declined. The store in store yards is very heavy, and a large portion will o. in hand to meet the shipments iron ine partie of the coming season. The recent arrivals have been the Andors, Brenhilds, Loch Ness, Eivion, Essex, Sikh, Marsala, Siren, and Hornby Castle, from the United Kingdom, with flooring laths, &c. Janadis, from Frederickstad', and Callao, from Soderhamn, with red deals, flooring, doors, laths, &c., and others.

OTTAWA VALLEY NOTES.

Mr. Thomas Mackie's square timber made on the South River and Sturgeon last winter, was safely t wed over Lake Nipissing to the C. P. R. siding for loading. in all there will be about 5,000 pieces, nearly two thousand of which is board timber. It was expected that the first train load of this timber would leave the siding on Wednesday last for Papineville where it will be unloaded and rafted up, Mr. Mackie having now a gang of men at that point. It is expected that should cars be supplied, two hundred pieces could be loaded per day. The general average of the whole cut will be about sixty feet.

It is said that the Scotch Syndicate intend driving the timber loose to the Des Jacobims, where it will be rafted up. Messrs. W. R. Thistle and O. Sills have a large number of logs on Centre and Carty Creek, Pettowawa, which cannot be got out this sesson owing to low water.

The saw logs are beginning to come down at a more lively rate.

Yesterday the steamer C. O. Kelly passed down with a large tow.

So far this season no less than five men have been drowned in the Black river alone. Of these, one was in the employ of Mesers. Fraser & McCoshen, one in the employ of J. R. Booth, one in the employ of Mr. Murray, and one in the employ of Hamilton Bros.

Mr. James C. Armstrong, manager for Barnet & Mackay, has arrived at Eganville. He reports that Messrs. Barnet & Mackay's drive will be there in about ten days if the weather is favorable.

Captain Young's drive commenced running out into the Ottawa at the mouth of the Pettewawa several days ago.

Perley & Pattee's drive on Chalk river has arrrived at Burned Bridge.

Mr. John Rowan is getting out all his drive-He had over 20,000 turned into the main Schyan last week .- Pembroke Observer, June 8th.

MONTREAL NOTES.

The Gazette of June 15th, says :- The local demand has been fair although not equal to that of a year ago, when it was exceptionally There is not much lumber arriving, which is rather a favorable feature than other wise, as stocks in the city are already large. The only American inquiry reported is for ash. Laths are steady at last week's rates, and it is thought they have reached bottom, although they are still 10 to 12c. per M. above prices ruling a year ago. There has been an advance in the price of pine lath in Boston, where they have sold up to \$2.50@2.75 per M. The export trade is commencing to show more activity, and we hear of charters being made to load lumber on the prospects. -N. Y. Lumber Trade Review. | must be considered satisfactory.

for the River Platte, of the barque Wolfe, 940 tons, at \$14.50, and the Peter Crerar, 628 tons, at \$15.50. There is a brisk export movement in deals. Two ships have just been chartered for London at 67s. 6d. The Decdarus is load ded with deals for Swanses and the Polstjernan with deals for Hull. The vessels Wimmers, Cupid, August, Leffler, Latons, Carla and Lorna Doone are new leading. The following vessels have been chartered to lead at Montreal Soy, Guelph, Murlet, Tiviot and the Bolivia to load at Three Rivers. Contracts have been given out for the construction of the new basins to be built above the present one, for the accom modation of the lumber, cordwood and coal interests. The work will be pushed forward with despatch, as improved facilities for meeting the increasing business of the port in the lines referred to are greatly needed.

STANDING PINE.

When the amount of standing white pine timber in the country is considered in connection with the annual production or lumber, it becomes apparent that without an unforseen, unexpected and disastrous business panio amounting to a veritble cyclone in its baneful influence, unsettling all values, there can be but very little prospect of any further decline in the price of white pine lumber, either in the near future or thereafter. The supply of standing timber is gradually and swiftly being reduced, and the domand is rapidly and constantly on the increase, while the capacity and number of mills keeps full pace with the demand. The effect of this increased demand and constantly decreasing supply is perceptible in the enhanced value of pine stumpage within the past few years. Standing timber which could have been purchased in Michigan less than a decade ago for \$2 per thousand would to-day command from \$5 to \$7; and when we consider tuat a very material portion of it has changed hands at the latter price, within the time specified, it becomes apparent that any material reduction in the price of lumber must involve serious loss to the holders thereof, to which they would not be very liable to submit, as withholding the same from the market for a time, involves no expense further than the taxes on the lands, and such action must inevitably, by the action of the inexorable law of supply and demend, re-establish prices. Only one conclusion can therefore be arrived at in a consideration of this question, and that is, that the price of white pine lumber must be maintained. -Lumberman's Gazette.

NORTHWEST TIMBER LANDS.

Information is to hand going to show that the Canadian Northwest is going to experience a boom soon in the sale of timber land. A large number of American buyers have recently invaded that section with capital, and are making selections of the best tracts that are more sasy of access.

The timber of that country, or at least the portion of it fit for lumber manufacture, has as yet been very little drawn upon. Hitherto lumbering has been little more than a system of culling from the best districts within casy reach of Winnipeg. The lower portions of Lake Winnipeg were, until very lately, the only locality where operations were carried on to any extent, and these have only recently been supplemented by cutting in the Lake of Woods country. As yet the vest timber fields on the upper Lake Winnipeg, where the finest spruce limits in the Northwest are known to exist, are almost untouched, although the establishing of a more extensive system of navigation on that lake is all that is necessary to bring these timber lands within easy reach of the Manitoba lumber market. It can scarcely be expected, with the present system of rapid development and ever-increasing demand for lumber which is now going on in the Northwest, these timber resources will long remain untouched, and it is just possible that American capital and Ameri can enterprise will soon assist much in their development. A number of lumbermen from this side of the line have been visiting the section around Lake Winnipeg, and it is expected that regularly organized parties will soon explore the country in that neighborhood and report

Chips.

NINETT-THREE thousand acres of land were lanted with timber in Kansas last year.

THE low water this season in the streams around Rainy Lake and the Lake of the woods in the Debateable Territory, has very materially interfered with lumbering operations, and it is said will diminish this year's cut 30,000,000

The Kingston Whip of June 11th, says : Yesterday the biggest cut of timber for the season was accomplished at Gilmour's mill, Trenton. In ten hours 347,000 feet of lumber were cut, This is at the rate of 35,000 per hour.

An Ottawa despatch says that a considerable quantity of square timber is passing through the Chats and Chaudiere slides. It is somewhat above the average, and timber-men are under the impression that prices will be good this

A HANDSOME maple planted by the Prince of Wales in 1860, a Canadian oak planted by Prince Arthur in 1869, and a Scotch fir planted by Princess Louise in 1882, are among the attractions of the Horticultural Gardens at

Few people are aware, or even stop to think, how much lumber is consumed in car-building. It is estimated that there are 400,000 cars in the United States, and, as three thousand feet in round numbers are used in the construction of a car, it follows that the cars that are rolling around the country represent 1,200,000,000 feet of lumber.

CULTIVATION should at all times be given to young trees to keep them in healthy growth and free from weeds. Where they have been set in rows it is a good plan to plow a light furrow towards them at the end of the season, this is called laying them by, or putting them to bed; it protects them from heaving and provides for the outflow of surfs ter.

THE Monetary Times says that a company of Montreal gentlemen consisting of Messra. R. Hersey, M. Babcock, J. E. Rasin, W. F. Hutchins, E. R. Whitney and G. F. Cleavland, is being organized to engage in the manufacture of barrels, kegs, &c., under the corporate name of the Tomlinson Patent Barrel Company. The capital is to be \$100,000 in shares of \$100

THE Glasgow correspondent of the Timber Trades Journal of June 2nd, says that in the list of arrivals here for the week will be noted the first of this season's imports of Canadian deals, several shipments having arrived per steamers-altogether 45,250 pieces. Thire has been no auction sale yet of any of those ivesh arrivals. The yarding of them is going on busily meantime. The arrivals of spruce deals during May have been very heavy, amounting to 118,039 pieces, and the total since the beginning of the year is 192,555 pieces. Last year. at corresponding date, the total was 140,000 pieces.

SPEAKING of pitch pine, a correspondent of the Timber Trades Journal says :- " All alor 9 the west coast of France this class of wood goods is coming more and more into use. Not only for parqueting, but even for joinery and carpentry, it is rapidly finding favor. pitch pine flooring has one great advantage over that from the north of Europe, viz, greater durability, and being free from knots, it has a finer aspect. The price is about the same as that from the northern countries, and an improved consumption of this wood may be antic ipated. In Spain there is also a fair consumption of this class of wood goods."

THE Bristol correspondent of the Timber Trades Journal says that an auction sale of spruce deals (comprising about three cargoes) was held at Bristol on Wednesday, May 30th, by Messrs. Booth & Co., of Gloucester, Mr. Abraham Booth acting as auctioneer. The sale took place in the saleroom of Mesurs, King Bros., at Canon's Marsh. There was a large at endance of buyers, and every lot was sold. The competition was fully spirited, and the prices realized ranged from £6 17s. 6d. to £7 15s per standard, averaging all around a trifle over £7 2s. Cd. For lower port deals these prices

THE Selkirk Herald says .- Mr. G. H. Brad bury, general manager of the Northwestern Lumber Company, returned from Bul. Head Bay, Lake Winnipeg, on Wednesday last. While in Solkirk he called at the Herald office, and in reply to enquiries stated that a raft of logs, containing about 400,000 feet of lumber. was ready for towing across the lake, and that he expected the Colville would start out for that purpose in a day or two. Mr. Bradbury had a very rough experience on his way in. Ho came in a cance, and had to lay methoday after starting on account of the sec. When the lake was clear he resumed his journey and crossed the water in the storm of Tuesday, having a very exciting and dangerous toyage. Mr. Bradbury is looking well, and camp lite apparently agrees with him.

THE Keewatin correspondent of the Winnipeg Commercial save. The water is very low in the lakes, and all mill owners complain of the scarcity of power. Mr. Hall, or the Northwestern Telegraph Company, has been in town for the past week, looking for codar telegraph poles. The steamer N. Mosher, Captain Mc-Murdio has brought in three tows of logs and one tow of telegraph poles during the past week for the Keewatin Lumber Company, Mesers. Dick & Banning's drives, on Grassey and Pine rivers are lying up for the want of water, and will not come out this season, unless heavy rains come on during the summer. The steamer Lillio Macaulay, with a tow from Hungry Hall for Dick & Banning, was caught in a storm in the Grand Traverse and had to abandon the raft. The logs were all swept into Buffalo Bay, and are a dead less, as it would cost more than they are worth to collect them

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Market Reports.

From Our Own Correspo

JUNE 25 .- There is a good demand for laths which are scarce both in Ottawa and in this market, and the price has advanced about 50 cents per M, the quotation now being \$1.75@ \$2.00 with every probability of another rise is in good demand, and very shortly. scarce; den ule quality cannot be had under our outside quotation. There is not much dry wood in the maket just now, and there is not any demand for green. The general demand has not been good, and our quotations, though unchanged, are weak. Export trade is beginning to show rather more life. Two vessels are at present loading for the River Plate and a third is in port and will begin to load for that destination as soon as her cargo is discharged. We quote prices ex yard as follows :-

troducto briom or 3 mm m remember			
Pine, 1st quality, & M	\$3 5	00@40	00
P ne. 2nd " * M	ᅇ	00@26	600
Pine, shipping culls, W M	14	00@10	3 OO
Pine, 4th quality deals, & M	11	00@15	2 OO
Pine, mill cults, W M	10	00@19	2 00
Spruce, * M	10	00æ13	3 00
Flemiock M M	9	00.210	ນ
Ash, run of log culls out, & M	20	00(425	: 00
Ash, run of log culls out, WM	17	00/420	00
Oak, & M	40	000x50	00
Walnut WM	60	00 100	00
Cherry, W M		00@00	00
Butternut, & M		000040	00
Birch, 3 M	20	000426	00
Hard Maple, WM	25	00@30	00
Lath, WM	1	7500 2	: 00
Shingles, 1st, WM		00@ 0	
Shingles, 2nd, PM	2	50@ 0	00
POSTAUTA AND SUIPWINTS			

Shipping for South America has begun, although there have been no clearances as yet The last vessel taken up for the River Plate was at \$15.50. The rate to the United Kingdom is ateady at C7s. 6d. The shipments from this port since last report up to date have been as under: To Liverpool, SS Quebec, 7,838 pcs deals; SS Sarnia, 12,694 pcs deals; SS Parisian 12,225 pcs deals; Bk. Bolivia, 49,500 ft deals; Bk. Cupid 553,417 ft deals: To London, per SS York City, 11,057 pcs deals; Bk: Wimmins, 36,609 boards, 13,165 deals and 2,036 pcs deal ends. To Plymouth, Bk. Echo, 3,736 pine deals and 112 ends. To Swansea, Bk. Deodarus, 5,989 pcs deals. To Bristol, SS Somerset, 9,156 pes deals. To Cardiff, Bk. Casts, 10,818 pes white and red pine, 690 pcs white deals. To Hull, Bk. Latona, 12,213 pcs white deals and 739 pcs deal ends.

LITERPOOL MARKET.

Advices by last mail state that the market is sadly wanting in animation and for some articles prices are easier. Spruce deals have been sold at £7 2s, 6d. per std. ex quay, both by private bargain and by auction. American walnut was placed at 4s, 6d. to 6s. 9d. ex quay. Quebec square white pine 1s. 7d. to 2s. 5d. per cub. ft. Quebec red pine 1s. 3d. to 1s. 8d. Quebec 1st quality pine deals £21 to £22 per standard.

CORDWOOD.

There has been no improvement in the demand, but as the imports are still very limited, they are sufficient in the present state of business to keep prices about steady. Notwithstanding the enderver by the coal dealers to raise the price of that article it is still relatively cheaper than wood, which would require to fall considerably lower to induce people to purchase to any extent.

Long Maple	7 (00
Short "	6 1	ю
Long Birch		
Short "		
Long Beoch	6 (00
Short_"		
Lorg Tamarack	5 3	25

TORONTO.

From Our Own Correspondent.

JUNE 23.—The lumber trade from the yards and over the docks is extremely quiet at present, consequently there is little worthy of record to give you. The docks are piled up full with lumber, and a considerable quantity remains on cars waiting for shipment. So that unless shinments are soon made a large portion of the R. R. Company's rolling stock will be tied r. for want of sufficient room to pile it on the docks. The quantity of really good lumber coming forward is small compared with previous years, owing, doubtless, to two causes. First, the price offered by dealers on the other side for It is but little used. Roofs are of all varieties clear and picks will not induce holders of dry and styles. Tin is pretty freely used on flat private terms at lower figures. The tendency

stocks to send forward; secondly, owing to the late starting of the mills this sesson none of the new cut is yet in a fit condition to ship. The quantity going forward to Manitoba is not as large as was anticipated previous to the opening of the navigable season. The reason for this is not hard to define. Manitoba has become largely self-supplying; therefore, any lumber now sent from here has to compete with that manufactured on the spot. Still, in spite of this home competition, with rearonable freights through from the Georgian Bay a considerable quantity of lumber will find its way from there to the Northwest Territories.

The Midland and Grand Trunk Railway Co.s have so arranged matters between themselves so as to admit the shunting of cars to Parkdale without charge, as formerly, which will prove beneficial to all concerned, and if the former company would go a trifle farther while they have their hand in and give dealers somewhat lower rates from Midland to this city, it would not come amiss. Eight and a half cents per hundred weight for lumber for the distance travelled is considerably higher than it ought to be ; 7½ cents would be simple rates and at the same time confer quite a boon on dealers and consumers alike.

Although trade from the retail vards is dull there does not seem any tendency to cut on figures hitherto demanded. Shingles and lath are quite firm at former quotations. Manufacturers hold out stiffly for 2.35 per M. for 16 in shingles at the mill, so that it can easily be seen that \$3.00 per M is not out of the way at all when delivered from the yards.

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	44	st	ocks			14 0
Ια	untling	and 1	olet, up t	o 16 ft	••••••	14 0
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	**	41	46	38 ft		
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WINNIPEC.

From Our Own Correspondent.

JUNE 19.-Before quoting prices in the principal northwestern lumber market, a brief description of the building methods and the different kinds and grades of lumber would be in place.

The scantling frame is the usual style of construction for wooden buildings. This is set on a timber roundation, resting on oak posts sunk in the ground, stone being very costly. The sills of some houses are several thicknesses of plank laid flat on the prairie. The lower floor is always double dressed, sheeting is first laid upon its joists, on this is laid one thickness of tarred building paper which cuts of dampness and cold air currents from below. On this is laid the floor proper, usually of dressed pine I in. x 6 in. or 4 in. tongued and grooved. This would be considered thin in Ontario, but the wear on floors seems not quite so great here. the absence of grit in the soil no doubt accounting for it. Good average buildings have always a course of dressed sheeting on the outside of stude, then a course of plain building paper, then the siding 6 in. x 3 in. tongued and grooved similar to flooring except that the al _lder of the joint on tongued edge is entirely cut away in the form of a broad concave chamfer. This makes by far the best outside wall. It is solid. nest and tight, not penetrated by either rain or snow. The old fashioned thin siding and the perpendicular board and batten style are almost unknown here. There is a small quantity of re-sawed siding with thick and thin edge; its cheapness is its only recommendation.

and mansards. There is an American pressed iron slate or shingle which is used on the faces of mansard roofs, which appears to be neatly adapted to its purpose. A course of the usua tarred building paper is spread on the sheeting and upon it the shingles are generally laid.

In those mushroom towns that elevate their heads on the prairie in a season, if not in a night, there is a poor chance for the plasterer and painter. The inside walls, ceilings and partitions are of dressed lumber. The walls and ceilings are generally done with a kind called ship lap, about 6 in. x 7 in. Its name comes from the half lap joint with which it is made. The partitions are of narrow boards planed and beaded on each side with tongue and TOOVA.

The lumber sawed here is of the exact size, that is, a 10 in. board is just 10 in. wide and barely 1 in.thick. With regularly manufactured lumber in Ontario it would be 111 in. wide and 14 thick. That is what we sell to the Americans. When we buy from them in the Min neapolis or St. Paul market the bare size is all we look for and we do well to get it.

The extra dimensions of Untario siding and the odd foot of 13 feet lumber is about as good s wasted in this market.

The prices to builders here are as follow:

BOSTON.

Cotton, Wool and Iron of June 23, says :-Trade is of fair proportions and the range of general values keeps along pretty steadily. Eastern lumber is held at about previous prices, with a moderate finquiry. Western pine seems to hold it own. Southern pine shows rather a firmer undertone at the low prices ruling of late. Hardwoods are in fair demand for desirable selections, with no particular change in values.

Canada Pine.			
Selects, Dressed	8	00@30	00
Selects, Dressed	0	00@42	00
		000033	w
Dressed Shippers 2	7	00@29	00
Dressed Box 1	8	00/220	00
Sheathing, 1st quality 4	2	00@45	00
Sheathing, 1st quality	4	00(435	00

CHICAGO.

The Northwestern Lumberman of June 23rd, says :-The arrivals of cargoes r his port for the week ending on Wednesday were a little in excess of those of the week previous, numbering up to 252. A large proportion have also stopped at the sale docks. On Monday, always a great market day, when the wind has been favorable, there was a numerous fleet on the market, the cargoes going off rather slowly, but steadily. Big fleets followed on Tuesday and Wednesday, so that the market hardly had time to recover its wind, as it were, after its effort to unload the heavy offerings on Monday. The week thus far has been one of plethora, while buyers have been apathetic about taking hold. On Wednesday particularly, the market was very quiet, a limited number of buyers being in attendance, and the few present having a poor appetite for lumber. There were large offerings of shingles, which were neclected and weak. The tone of the market generally was characterized as 'soft" by both buyers and sellers, and inclined to sag fully 25 cents below last weeks figures, short piece stuff selling often at \$9.75 that last week brought \$10, desirable stock running 20 per cent. to 18 feet and upward, generally selling for \$10, with an occasional cargo containing 50 per cent. long stuff brought \$10.50. Long timbers continue to be a drug, and sell for \$11.50. Some cargoes of piece stuff, having an objectionable percentage of "spindling" lengths, have sold for \$9.50. The expression of the commission men and buyers being unanimous that the market was soft and aluggish, leads to the inference that the figures quoted are the top notch, and that some transactions may have taken place on

since Monday has been to give a slight advantage to the buyer.

Quotation are as follows:

Receipts of lumber, shingles, etc., for the week ending June 21, as reported by the Lumberman's Exchange:—

prom January 1, 1883, to June 21, 1883, includite. 10.214.000 218,907,000 STOCE ON HAND JUNE, 1. | 1833. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882. | 1882 270,317,965 91,607,700 20,658,679 2,198,415 77,962

ALBANY.

Quotations at the yards are as follows:

BUFFALO.

We quote cargo lots:-

	oswego, n. y.			
•	Min. manage			
ď	The block of the contract of t	100	COCKER	w
'	TJCKINGS	30	00928	00
•	Fine, common	20	00@25	00
	Three uppers	14	00@17	90
٠.	Culls	12	00215	00
ď	Mill run lots	19	00/222	00
	Sidings, selected, 1 inch.	34	006888	Óΰ
	1} inch	36	000040	ã
	Mill run, 1x10, 12 inch	10	00299	ã
1	selected	**	00244	7
ľ				
J	Strips, 1 said 11 Inch mill run	74	000010	**
1	culls	**	Wale	*
.	1x6 selectrd for clapboards	ä	WATE	×
	Ohinales TTY 70 lash wins	*	WGW.	w
1	Shingles, XXX, 18 inch, pine,XXX, 18 inch, cedar	•	www 4	20
1	Tath	3	mil 2	70
- 1	1ALD. ASSESSMENT AND ADDRESS OF THE PARTY OF	-	0000	50

TOKAWANDA.

CARGO LOTS-RAGINAW INSPECTION.

NEW YORK.

The New York Lumber Trade Review says : We would be most happy to report a favorable change in the condition of the general market had we the facts to back such a statement, but in the absence, we are obliged to chronicle the same position of affairs that we have reviewed. for some weeks past. The demand for the season is exceedingly slow and uncertain. An occasional bill will make its appearance on the market, but when it does a brisk competition is encouraged and the result is it goes low. The tone of the market continues easy, in the absence of the

usual summer trade. Prices are favorable to buyers, but this fact does not serve to stimulate interest, as purchases are only made in accordance with actual wants, and this line of policy laid down will not seemingly be overstopped.

Spruce has been received in more liberal quantities, and with some little iety to work off the increased stock, consignee. a been obliged to modify slightly their previous prices. Sales of ordinary random cargoes have been made at SI3, but at the close this quotation was considered rather low, as the market having been cleared, the inside price named for anything affort to arrive was \$13.50, while up to \$15.50 was asked for strictly desirable lots.

BORDEAUX.

The Timber Frades Journal says :- Some of your readers may be interested in knowing the present state of this market, but though I cannot write much of an encouraging nature, there is a better prospect from the fact of the splendid weather we are enjoying, which imparts new hopes for the near future, and promises a good harvest, which is much needed. The last few months have really been a period of entire stagnation, though the season did not open so very badly. Fair prices were paid by the leading firms, but, instead of being contented with the results thus obtained, the sellers continued to press their stocks, thus giving the smaller houses opportunity to buy at even cheaper prices, and causing the larger ones to lose confidence.

What has surprised the timber trade here has been the firmness on the part of the spruce shippers, or rather their unwillingness to accept the prices offered by the importers; but the former have gradually given way, and now offer to close business at something like 7s. less than their opening quotations, but which sum the buyers here are not even prepared to pay.

CARDIFF.

The Timber Trades Journal of June 9 says The timber market here remains far from astisfactory. As far as we can learn, very little has been done with the Baltic during the past week. Une lot of from 400 to 500 standards of deals has changed hands, but the exact price, although not yet disclosed, is not believed to point to any improvement. Steamer charterers are holding out strongly at 33s. 6d. from the lower Baltic ports. From Quebec there is slmost nothing being done. In the pitwood market overstocking seems to be still the order of the day. French and Scotch fir are selling freely at 17s. 6d. to 18s., which means a severe loss to the importers, when we say that prices at Bordeaux are maintained at about 14s., free on board.

LONDON.

We take the following from Messrs. Churchill and Sim's London circular of June 10th :- The stock of wood in the docks on the Sist May was -foreign deals and battens, 3,545,000 pieces, against 4,150,000 in 1882 and 3,767,000 in 1881; nine and spruce battens, 935,000 pieces, against 1,509,000 in 1882 and 1,681,000 in 1881; on the quays, 267,000 pieces, against 368,000 in 1882 and 259,000 in 1881; boards, 5,565,000 pieces, against 7,328,000 in 1882 and 4,483,000 in 1881; total, 10,312,000 pieces, against 13,155,000 pieces in 1882 and 10,190,000 pieces in 1881. The delivery from the docks from the lat of January has been to June 2, 1883-foreign deals and battens, 4,573,000 pieces; pine and apruce battens, 1,158,000 pieces; boards, 4,571,000 pieces; to June 3, 1882-foreign deals and battens, 4, 594,000 pieces; pine and spruce battens, 1,401,-000 pieces; boards 4,790,000 pieces; to June 4, 1881-foreign deals and battons, 4,852,000 pieces; pine and spruce battens, 1,563,000 pieces; boards, 4,435,000 pieces. Or in cubical contents to June 2, 1883—sawn wood, 84,696 P. S H; prepared boards, 15,265 P. S. H.; timber, 44,467 loads to June 3. 1882-sawn wood. 88.-773 P. S. H.; prepared board, 16,876 P. S. H.; timber, 40,211 loads; to June 4, 1881—sawn wood, 97,355 P. S. H.; prepared boards, 15,010 P. S. H. timber, 41,356 loads. The market in the past month has been lifeless, there having been but little demand either for the landed stock or for cargoes to arrive.

THE Timber Trades Journal of June 9, says:

be interesting from the fact of the catalogue including several parcels of Geffe deals of this eason's shipment from one of the leading mills over there, some of which are for absolute disposal, besides other clearing lots from this port of favorite brands. There are also several lots of deals, &c., from Dickson's ports for those who hold to the reputation this shipment has so long enjoyed. In respect to other descriptions, the Quebec pine, ex Red Jacket, without reserve, is likely to prove attractive, and in anticipation of the forthcoming shipments, which cannot be here for several weeks yet, ought to meet with plenty of bidding. heavy sales of Fredrikstadt flooring have apparently not diminished the confidence of sellers in the ability of the market to go on consuming, and several such cargoes are distributed over the pages of the catalogue in the usual market able sizes. Oak wainscot and sawn white oak planks as well figure amongst the unreserved lots, and a good assortment of pitch pine timber makes the sale altogether a specially attractive one, presenting an opportunity to the trade to suit themselves with almost every description they require.

LIVERPOOL

The Timber Trades Journal of June 9th says : -Trade remains in a quiet condition all round. and the quays and wharves wear an aspect the reverse of animated. This, however, is not un usual at this time of year, seeing that the import eason will soon be upon us, and many buyers refrain from putting their orders in the market until it has fairly commenced, and others are deterred from operating so late in the half-

The import for the past month, as we have reported from week to week, has been light. In pitch pine, both hewn and sawn, it is less than half the quantity imported in the corresponding month of last year, and the supplies of spruce also show a large decreasy when compared with the same period. The demand for these articles, however, appears to have diminished in like proportion, leaving the stocks of timber but little below those of last year, whilst the stocks of deals of all kinds, flooring, &c., are in

Prices continue low, and so long as the pres ent condition of trade continues they are likely to do so. On all sides we hear complaints of the unsatisfactory state of the building trade, and until it assumes a more healthy tone it is useless to look for any marked improvement.

GLASSOW.

The Timber Trades Journal of June 9, says: The wood market here does not give the indications of briskness that might be expected, looking at the activity that prevails in the shipbuilding trade and the improved condition of housebuilding shown by the advance of a halfpenny per hour given last month to the house On the contrary, it is rather dull for most descriptions of goods. There is an opening for birch and walnut logs, of which the market is comparatively bare. The large cargo of lower port birch that was recently brought to auction, as noted in the Journal of the 26th ult., is now all cleared out of first hands.

The public sale held at Greenock on the 31st was well attended. Of the goods offered, a large portion belong to a wrecked cargo (sold without reserve), and some portions were more or less damaged or chafed, so that the prices realized must not be taken for the market rate.

WASTE IN SAW DUST-

The Winnipeg Commercial says :- In the vast country extending from Lake Superior to the Rocky Mountains, in parts of which timber is plentiful, and in other sections of which fuel is carce, the question of utilizing the enormous quantities of acwdust produced in the lumber districts as a source of fuel supply is one deserving of attention. The immense lumber cut of our mills every season will produce a quantity of sawdust, which if it could be made subservient as fuel would go a considerable way towards solving the problem of how our western country is to be supplied. Upon this subject the Lumberman's Gazette of Bay City, Mich., mays:-"The timber converted into sawdust by

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.

portant consideration, and amounts annually to millions of feet, and any invention which would be successful in saving any considerable nortion of it and still compete in the amount of lumber produced would be a rich bonanza to the inventor, equal to an interest in the best flowing oil well or the richest silver mine in the country. Necessity is said to be the mother of invention. and as the forests disappear and timber becomes scarce, the necessity for economy becomes more and more apparent, and it is not beyond the range of possibility that great accomplishments in this direction are in store for the future."

SPEARING FOR TIMBER.

A new industry has recently been developed in Ireland-a sort of timber prospecting never dreamed of by our American pine hunters. It is a well known geological fact, says the Northwestern Lumberman, that immense tracts what are now bog lands in Ireland were once covered with forests of oak and pine, and that in cutting peat, immense trees of these varieties are found embedded in the earth at depths of ten, twenty and thirty feet, in many cases whole groves being found standing just as they grew. To find out the location of these miniature subterranean forests is now the speculative work in which some industrious Irishmen are engaged. The timber, when brought to the surface, is found to be perfectly sound, and the oak, which is as black as obony, is used extensively for ornaments of jewellery and fancy cabinet work, and sells at a high price. A recent visitor to the wild moor and mountain region of Donegal thus describes the way in which the seekers aftor burried forests operate. Two men, armed with steel rode about thirty feet long, traverse the bog, and by running their rods into the ground are able to ascertain where the trees are to be found. They work by what may be termed natural mathematics, and quickly determine the length of their prize, its approximate diameter, whether it is pine or oak, and is or is not a clumper-one of a company or clump. They fix on twenty or thirty feet square, and cross it with their searchers, say north and south, and then east and west, search it across each way, a stab to each foot or so, and in the course of a few minutes they know whether that area contains what they are looking for. The square lying next and next, and all near each other, are an scarched, and the discoveries, if any, marked for future action. The unproductive are also marked, to avoid future loss of labor. - Scientific American.

WOOD WORKING MACHINERY.

The question is often asked, will the machinery, especially wood working machinery, of one hundred years hence embody any special advantages not possessed by the most improved tools of to-day? In some particular tools there is undoubtly room for improvment, while in others perfection seems to have been attained. Many so called improvements are only such in name. and there are those who claim that the planing Mesers. Churchill & Sim's forthcoming sale will the circulars on the Saginaw river is a very im- machine for instance, is no better to-day than

ton years ago, and hence is not liable to be improved upon to any great extent. In saw mill machinery there is room for improvement, noticeably in the direction of closer economy in the production of lumber. As our timber becomes scarcer these improvements will gradually assiume shape.—Wood Worker.

Convincing Proof.

Having suffered from rheumatism for a long time I was induced to try your Arnica and Oil Liniment. The first application gave instant

Liniment. The first application gave instant relief, and now I am able to attend to buisness, thanks to your wonderful medicine.

I am yours truly,
W. H. DICRISON,
218 St. Constant St., Montreal.
To Henry, Johnsons & Lord, Montreal.
Araica and Oil Liniment is sold by all Drug gists.

A VOICE FROM THE UNITED STATES. - I have suffered for the last twenty years with Dyspepsia and Ceneral Debility, and tried many remedies, but with little success till I used Burdock Blood Bitters when relief was quick and perma-nent. A. Lough, Alpens, Michigan, U.S.

Health is Wealth.



DR. E. C. WEST'S NERVE AND BRAIN TREATMENT, a guaranteed specific for Hysteris, Dixinoses, Convolisions, Fits, Nervous Neurajia, Hosdache, Nervous Prostration caused by the use of alcohol or tobacco, wakefulness, Mantal Deprosion, Softening of the Brain, resulting in Insanity and leading to misery decay and death, Premature Old Age, and Spermatorr hose, saused by over-exertion of the brain, self-abuses or over-indulgence. One box will cure recent cases. Each box contains one month's treatment. One dollar a box, or six boxes for five dollar; sent by mail prepaid on receips of price. We guarantee six boxes to cure any case. With each order received by use for six boxes, accompanied with five dollars, we will send the purchaser our written guarantee to refund the money if the treatment does not effect a cure. Guarantee assessed only by ORMOND & WAISH, sole authorised Agents for Peterborough, Ont. JOHN C. WEST & CO., Sole Propietors, Teronto



MINNEAUTA LUMBERING.

Respecting the drives in Minnesots, the Missinippi Valley Lumberman gives the following information :

"The Prairie River logs have been abandoned probably for the year. There have been no logs got out of the Big Swan River drive so fur, and the water is low and falling. Unless heavy rains occur in a very few days it will also be deserted. The main upper Mississippi drive has commenced to run at Aitken; the jam at Pokes gama Falls having been broken, this drive will come in O. K. The lower Willow, including Quadno and Moose, are running into the Mississippi, and no fears are entertained but they will come. The upper Willow is coming hard and in sad need of rain to make the work easy. No logs out of Split Hand, but the boys are working like boavers to bring them. One drive on Sandy Lake can be had if it seems to be needed, but lower Prairie, Tamarac and Sandy rivers are all very low, many logs will be nung It is reported that some 18,000,000 or 20,000,000 feet of logs off the waters of Platte River are in Rice Lake, but upper Platte and Hillman drives are stuck. The main East branch of Rum River is safe on present water. The rear of main East branch drive is below Princeton and most of the logs are in Anoka boom. There is no news from the West branch drive, beyond the fact that a half crew are on the river working, but cannot get out unless there is heavy rains. The probabilities are that this drive will be hung up."

QUEBEC.

A correspondent on June 14, says:-This season of navigation has brought a considerable increase both in numbers and tonnage of shipping to our port as compared with last year, and business generally is good. One great drawback is the scarcity of skilled men to load the vessels, many of them having left the city. This large fleet is fast using up the stocks of square timber which our merchants wintered over at the several coves, and the new timber now on its way to this market will no doubt meet with ready sale at remunerative prices. Deals, have been slow of sale so far this season. although within the last few days two mill cuts of spruce have been disposed of. Joly's, of Lotbiniere, sold at \$41.75, \$26.75, \$24.75 and \$19.75, for firsts, seconds, thirds and fourths, respectively, f. o. b.

The Chronicle of June 15th, says :- Not withstanding that we have a large number of ships loading, our marchants are, generally speaking, well supplied, and do not show any inclination to purchase. One new Ottawa raft; belonging to Messrs. A. & P. White, has arrived, and two or three others are reported to be near at hand. We understand there has been morn enquiry for deals, owing to the large shipments which are being made, and the general opinion seems to be, that prices will be well maintained for the present.

HALIBURTON, ONT. ndent From Our Own Corre

SHINGLE AND LUMBER MILLS,-The new shingle mill of A. Sperry, of Peterborough, is now ready to run, and he has a lot of logs to start with. They were brought up the stream as there is no current. They are very fine logs for shingles. The mill is fitted up in first class style; the mill proper is 30x60 feet, two and a half storeys, an engine room 20x30 of one storey. A lean to to the main building about 12x30 for the drag saw, which is on the ground floor, where the logs are cut in blocks and split and taken up stairs by an endless chain. The lower floor of the mill consists of sawdust carriers, and all the shatting except one line of shaft is over head on the lean to that drives the two Perkin's patent shingle machines and the Covel saw sharpener, made by Wm. Hamilton, of Peterborough, which are on the second floor, also a circular saw for ties and lumber, a saw to trim the shingle block and foursaws for jointing shingles. The two shingle machines are of first class make, and are under the management of John Belleghem, of Peterborough, who has been with Mr. Sperry for a number of years. The jointing and packing machines are under the control of Messrs. H. said A. Dunn, of

to run as yet, as men of the right stamp are rather scarce, in fact what men are at work in the mill come from Peterborough. Haliburton may be proud of having such a mill in the village, a s it has increased the population by about forty people, young and old, and there must be still more, as it will take about 25 or 30 hands to run all the machinery in the mill. Haliburton is located on a very pretty lake called Head Lake on the north brauch of the Burnt River. At the north and of the village Mr. Irwin has a water saw mill, one circular saw, double edger and trimmers, which turns out over 30 M of lumber per day; and alongside we have a grist mill which does all the gristing for the surrounding country.

YOUNG'S POINT, ONT.

From Our Own Correspondent.

THE DRIVES.—Mr. Geo. Chalmer's drive urrived here on Thursday last, consisting of 30,000 peices. After sorting out here, the pine logo are to be driven down to Hilliard's mill to be cut into market lumber. The codar logs and ties will be cut at the saw mill here. Mr. P. Cassidy is foreman, and he has a good gang of men. The cook and cookery are second to none on the river for clealiness and good food.

THE DRIVES IN ERLS CREEK .- The two remaining drives in Eels Creek are getting on splendidly. Messrs. Ullyott & Saddler have a large number of saw logs and about 45 men. Mr. Barr foreman. Mr. Geo. Chalmers has a large quantity of saw logs and square timber: he has 20 men, A. Wynn, foreman. They have done well and expect to be at the mouth of the Creek, in Stony Lake, if all goes well, in about two weeks' time, when the two firms will assort out their respective logs. From what I can learn these two drives have made the best run that has been made on Eels Creek.

LARGE SAW LOG DRIVES .- Messrs. Rathbun & Son have three large drives lying here ready to run. This firm has a great quantity of stuff to pass through here this summer. They em by a great many men. Mr. Erwin, of Nassau Mills, has a large drive of saw logs, 18,000, and, 4.000 peices of square timber, ready to run over the dam here. Mr. Douglass is forman.

THE WATER.—The water is very high for this eason of the year and is still rising.

THE SAWLOO DRIVES.—Messrs. Ullvot & Sad dler's and Mr. Geo. Chalmers' respective drives of sawlogs and square timber arrived at the mouth of Eel's Creek, on Friday, June 15th. A. Wynn, foreman for Mr. Chalmers, has brought his sawlogs and square timber, a distance by water of 75 miles, and he has accomplished this inside of three weeks. Mr. Barr, foreman for Messra. Ullyot & Saddler, is also to be congratulated for his success. No doubt his employers will say he is a good man for this work, as he has driven nearly the same distance as Mr. Wynn. The two firms are now busy assorting their respective logs at the mouth of the creek in Stony Lake, where they will make a start for their saw-mills. Mr. Burke, foreman for Messrs. Ullyot & Saddler, is now reedy to run over here with 30,000 fine sawlogs for the Harwood steam saw mills. He has been detained here for a few days with head winds and by Messrs, Rathbun's drive which was alread of him.

SQUARE TIMBER .- Mr. Irwin, of the Nassau Mills, is going to have all his square timber that has been cut back of Haliburton, brought down those waters and shipped at Lakefield. In previous years he had it shipped at Lindsay.

WASTE IN SAWDUST.

The Winnipeg Commercial says :- In the vast country extending from Lake Superior to the Rocky Mountains, in parts of which timber is plentiful, and in other sections of which fuel is scarce, the question of utilizing the enormous quantities of sawdust produced in the lumber districts as a source of fuel supply is one deserving of attention. The immense lumber cut of our mills every season will produce a quantity of sawdust, which if it could be made subscryient as fuel would go a considerable way towards solving the problem of how our western country is to be supplied. Upon this subject the Lumberman's Gazette of Bay City, Mich., says: "The timber converted into sawdust by

to millions of feet, and any invention which would be successful in saving any considerable portion of it and still compote in the amount of lumber produced would be a rich bonanza to the inventor, equal to an interest in the best flowing oil well or the richest silver mine in the country. Necessity is said to be the mother of invention, and as the forcets isappear and timber becomes scarce, the necessity for economy becomes more and more apparent, and it is not beyond the range of possibility that great accomplishments in this direction are in store for the future.

LOST IN THE WOODS.

A very sad accident took place at St. Rose a fow days ago. One Joseph Dosjardins, a laborer of the place, left the village about a week ago for the woods, some five miles off, for the purpose of felling trees. He had been for some time absent, when the villagers, at the request of the family, instituted a search for him. After much trouble, the unfortunate man was found lying at the foot of a tree, with two large wounds on his head, and in an insensible condition. He seemed to be dead, but upon closer examination was found to have life in him. He was conveyed home with the greatest care, and is now in a very weak condition, and little hopes are entertained of complete recovery. When he regained consciousness, Desjardins told those around him that he had been felled to the ground by the falling of a tree upon him. On trying to reach home, he was exhausted by loss of blood and fell down at the foot of the tree were he was found. He remained there two days and two nights, exposed to a pouring rain during several hours, without food, and bleeding. He had heard the villagers calling him on the first day of the search, but was too weak to ariwer, Desjardins, as has already been said, is very poor, and has a family of five children

A YEAR WITHOUT A SUMMER.

During a cold spring like that which is just now drawing to an end, people generally console themselves with the reflection that the sun will eventually get the victory, and that summer will certainly come at last, though its coming may be delayed. Uncertain as the weather is the general features of the seasons recur with a regularity which warrants the confidence thus posed in the annual return of seed-time and harvest; but there are instances on record in which even the seasons seem to have lost their characteristic features, as if the ordinary laws of meteorology had been temporarily suspended. A remarkable case of this kind, and one which the long continued cold weather of this spring makes particularly interesting just now, is that of the year 1816, which has been called "the year without a summer." A communication printed in the Congregationalist gives the following summary of the weather of this remarkable

January and Feburary were mild; March was cold: April began warm, but ended in snow and ice. Ice formed an inch thick in May, and fields were planted over and over again till it was too late to replant. June was the coldest ever known in this latitude; frost and ice were common. Almost every green thing was killed; fruit nearly all destroyed. Snow fell to the depth of ten inches in Vermont, seven in Maine, three in the interior of New York, and also in Massachusetts. There was a few warm days. It was called a dry season. But little rain fell. The wind blew steadily from the north, cold and fierce. Mothers knit extra socks and mittens for their children in the spring, and woodpiles that usually disappeared during the warm spell in front of the houses were splendid. ly built up again. Planting and shivering were done together, and the farmers who worked out their taxes on the country reads were overcoats and mittens. In a town in Vermont a flock of sheep had been sent out as usual to their pasture. On the 17th of June a heavy mow fell in New England. The cold was intenae

A farmer who had a large field of corn in Tewskbury built fires round it at night to ward off the frost; many an evening he and his neighbors took turns watching them. He was rewarded with the only crop of corn in the Peterborough. The circular saw has not started the circulars on the Saginaw river is a very ineighborhood. Considerable damage was done

important consideration, and amounts annually in New Orleans in consequence of the rapid rise of the Mississippi River. Fears were entortained that the sun was cooling off, and throughout New England picnics were strictly prohibited.

July was accompanied with frost and ice. Indian corn was nearly all destroyed, some favourably situated fields escaped. August was more cheerless, if possible, than the summer months which preceded it. Ico was formed half an inch in thickness. Indian corn was so frozon that the greater part was cut down and dried for fodder, Almost every green thing was destroyed in this country and in Europe. On the 30th snow fell at Barnet, forty miles from London. Very little corn ripened in New England and the Middle States. Farmers supplied themselves from corn produced in 1815 for scea in the spring of 1817. It sold at from \$4 to \$5 per bushel.

September furnished about two weeks of the pleasantest weather of the season, but in the latter part of, the month ice formed an inch thick. October had more than its share of cold weather. November was cold and snowy. December was comfortable, and the winter following was mild. Very little vegetation was matured in the Eastern and Middle States. The sun's rave seemed to be destitute of heat during the summer, and nature was clad in a sable hue, and men exhibited no little anxiety concerning the future of this life.

The average price of flour during the year in the New York market was \$13 a barrel. The average price of wheat in England was 97 shillings per quarter. Bread riots occurred throughout Great Britain in 1817, in consequence of the high price of the staff of life.

Big Trees.

To give some idea of the magnitude to which some of the cypress trees attain, which are cut on the river above and brought to this market. I will state that two weeks since I surveyed a raft that came from Calhoun County (Louis Refoe), four logs of which were sawn from one tree and scaled as follows:

36 in. diameter, 16 feet long, 1.024 38 " 1,156 66 66 61 40 " ** 1,296 15 45 44 49 .6 44

Making a grand total of 4,920 feet-Doyes Rule. The top log was perfectly sound, and all of the best quality of white cypress, There was not a knot visible on the surface of any of them. The lowland forests contiguous to the river and tributaries abound in similar monsters, and it only requires capital and enterprise to unlock these tressures of wealth.-Apalachicola

On Thirty Days Trial.

On Thirty Days Trial.

The Voltaic Belt Co., Marshall, Mich., will send Dr. Dyo'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 abova.—N.B.—No risk is incurred, as thirty days' trial is allowed.

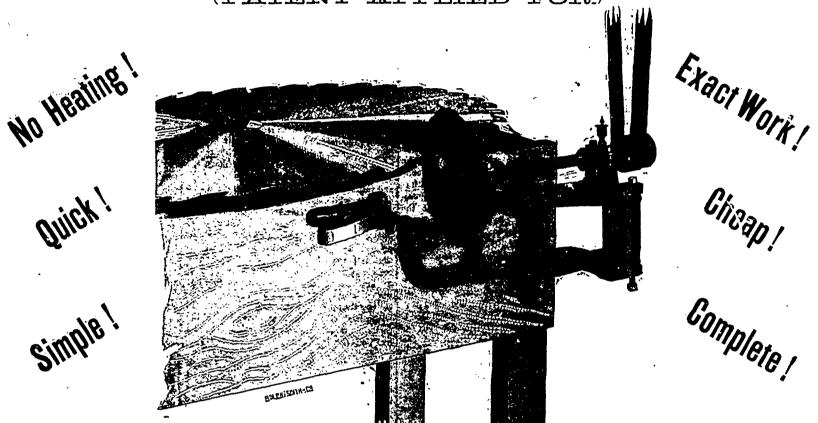


sentery, Cramps, Colio, Sea Sickness and Summer Complaint; also Cholera Infantum, and all. Complaints peculiar to children teeth-ing, and will be found equally beneficial for adults or children.

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POSITIVE STOPS! ADJUSTABLE GUIDE! Every Tooth made exactly alike!

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ROGERS' SAW GUMMER

Is Introduced to replace Burr Gummers, or Grindstones, or where Emery Wheels have been run in the usual way. Every Machine Guaranteed to work as represented or No Sale. It works EASILY; is so SIMPLE and COMPLETE that Sawyers can keep their Saws CONSTANTLY in FIRST-CLASS ORDER and thus LARGELY INCREASE the DAILY OUT-PUT.

Price Complete, with Countershaft

\$40.00.

HART EMERY WHEEL COMPANY, Limited

HAMILTON, CANADA.

Manufacturers of HART'S PATENT EMERY and CORUNDUM WHEELS.

NEW YORK LUMBER PREIGHTS.

The Ottawa Citizen of June 20, says :- It will be remembered that the American captains struck this spring for \$4 per thousand on lumber to New York and \$3.75 to Albany, to which the mill men had to accode, but very reluctant. ly, being 50c. per thousand more than they had calculated on. In order to conciliate the feeling and work harmoniously, it was unanimous ly resolved at a meeting of the boatmen held in the company's offices, 23 South street, New York, on Saturday, the 7th instant, to establish the following rates :-

Ottawa to Burlington and Whitehall \$2 25 Troy and Albany..... 3 50

New York 3 75 Twenty-five cents extra on strips to Albany and New York. This is acceptable to the Ottawa mill mon, and shows that the boatmen are desirous of doing what is right and do not wish to take advantage of their customers. The boatmon are thoroughly organized under a charter in New York State, and are styled the "Northern Boatmen's Transportation Company." The company comprises a carrying capacity of about five hundred (500) boats of about one hundred and fifty tons each. Their affairs are managed in New York by Mr. Geo. F. Hastinge, 23 South street, their agent in this city being Messrs. D. Murphy & Co.

It is most satisfactory that an amicable arrangement is arrived at between boatmen and lumbermen, and the association will now have the hearty good will of American men generally.

HANDLING LUMBER.

Hero is some good advice for saw mill men. It is furnished by a correspondent of the Southern Lumberman: When the lumber is taken from the saw by the off-bearer, never allow it to be thrown down, but lay it down carefully, and keep up this rule every time it is handled until placed in the car for shipment. When lumber is bulked down, always put each length down in separate piles, for instance, 10 feet lengths in one pile, 12 feet in another, and so on; this prevents splitting from exposure. When different lengths are piled together in a bulk as it comes from the mill, the result is that the ends of the longer boards crack, and thus the value of the lumber is reduced. Have your lumber properly trimmed before it leaves the mill, bad ends cut off square; vip out all hearts, oven if by so doing you get a three inch clear strip from each side. These strips are more valuable if clear and straight than the whole board with a bad heart in it, besides, you save the expense of handling so much surplus wood. Having your lumber properly trimmed and assorted as to lengths at the mills, keep it that way all the time while hauling, piling on sticks, hauling to cars and shipping, and never allow your men to handle fine lumber roughly, but in piling, loading on cars or waggon, hand the boards carefully from one to the other, and lay them down easily. You will make money by this, even if it requires one-third more men to do the work; the increased price that your lumber brings will pay all this extra expense and leave you a handsome margin besides.

BRAZING BAND SAWS.

The Hoyt & Bro. Manufacturing Co., of Aurora, Ill., gives the following directions for performing this operation.

File the ends of the band on opposite sides,

to form two wedged shaped ends, having a lap of say Linch long, which, when laid with their bevolled and filed sides together, shall form a good joint of the same thickness as blade. Now clamp the ends on a piece of board, with the back of the blade toward you, with the lap brought fair together. Cut a piece of "silver solder," large enough to cover the lap, lay it between the lapped portion with a little pulverized "borax." Now, having a piece cut out of your board, say three inches wide, directly under your lap, heat your soldering tongs to a bright cherry-red," and hold them pinched firmly on the lap until the solder flows freely from under the joint, then cool off the tongs and soldered portion of saw by pouring water upon the same, without relieving the pressure until nearly cold. Try a file on both sides the blade, and should it be harder than the other part of the blade, reby pressing the tongs upon the hard portion of the blade till partially heated, but not upon the lap, as it will weaken your joint. File off the solder and joint to the same thickness as other parts and the soldering of your band is completed.

COOPERAGE STUFF.

Handlers of cooperage stuff in this city comment seriously upon the character and quality of much of the staves, heading, etc., that is offered or shipped to this market. In many cases the manufacturers of the stuff do not understand their business sufficiently to turn out a product that is desirable or even available. Some owners of mills seem to imagine that if a lot of staves and heading is chopped out in a cheap way it is sufficient, and often they are not particular about the quality of the timber used. This is not generally the fact, but it is true to too great an extent. Instead of an indifference among users of packages as to the quality of the stuff to go into them, there is, on the contrary, a most rigid system of inspection applied. A Chicago commission man would not dare to send a car-load of stuff to a Minnesota consumer that did not come within the proper range as to quality, knowing too well that it would be useless, for the stock would be mercilessly culled. Before buying stocks of a producer to furnish to the trade catered to by Chicago operators, assurance is always wanted that the manufacturer knows what to send, and will turn that knowledge to proper account. Numerous inquiries regarding the placing of stocks are received in Chicago, to which little attention is paid, because the commission men-are-afraid to touch the product of a mill which they know nothing about. Improperly made stuff is dis. posed of by hook or crook, generally being supplied to local consumption, for there are apt to be coopers who are no more particular than the unskilled manufacturers of raw material. But at such a point as Minneapolis, to which a large amount of stock is annually shipped from Chicago, there is little demand for poor stuff. All this points to the necessity for the utmost care in studying the wants of consumers of cooperage material, and an earnest endeavor to meet those wants. When the market is dull inferior stuff has but little show, for if stock is wanted it is easy enough to get what is good.-Northwestern Lumberman.

RAFTS ARRIVED.

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

JUNE 14.—Henry Connolly, deals, Mill cove Thos. Duck, white pine, &c., sundry coves. A. Fraser & Co., timber. Clint's wharf. E. L. Kelsey, staves, Point-au-Pizeau. Jas. Gibson, jr., birch, South Quebec. John S. Murphy, elm, &c., Indian cove east. Wm. Simpson, birch, &c., Hadlow cove. A. & J. White, white pine, &c., St. Law

ance docks. Jos. Bolduc, deals, Mill cove.

JUNE 21.—Joseph Bolduc, deals, Mill cove. Malcolm McDougall, white pine, &c., St. Michael's cove.

Peter McLarcn, white pine, St. Lawrence Docks.

J. J. Calvin & Co., elm, &c., Point-au-Pizeau

J. J. Calvin & Co., oak, &c., sundry coves.
John McRae & Co., timber. Indian cove

D. C. Thompson, staves, Bridgewater cove. Flatt & Bradley and D. C. Thompson, staves, Bridgewater.covo.

Wm. Simpson, birch, Hadlow cove.

A. Fraser & Co., white pine, &c., Clint's

Hilliard & Dickson, pine, &c., St. Lawrence

LOGS AND LUMBER.

Last week the Lumberman contained an exact from the Tonawands, N. Y., Herald, that uttered a bitter complaint of the decline and threatening collapse of the saw-mill industry at that point, on account of the high cost of logs. The complaint alleged that the operators who raft logs from Lake Huron to Tonawanda havo squeezed the millmen to the point of bankruptcy by charging exorbitant prices for logaticliver-



and the remaining ones barely helding out,

while they are making nothing. In the Herald

of the succeeding issue a "timber" dealer, as

they there call the men who trade in logs, takes

issue with the complaint, and denies that the

high price of the raw material at Tonawanda is

the result of excessive value placed on it by the

dealors. He says that the reason why logs cost

nore in Tonawanda than formerly is because

they cost more at the stump. He cites the al-

leged fact that those mill owners who have un-

dertaken to get their own logs from the woods

and raft them to Tonawanda have made a fail-

ure of it, while those who have devoted their

care and capital exclusively to their mills have

succeeded. "The truth is," the timber dealer

proceeds to say, "the enormously increased

price of stumpage, amounting to over 400 per

cent. in the last few years, together with the ex-

cessive price of labor and supplies to carry on

the business, is what has embarrassed the tim-

ber trade, and not the excessive profits imposed

writer has well nigh quit the business for this

reason." So it seems that the trouble is thrown

back on the stump and the cost of labor and

supplies. It is the same that the Michigan

manufacturers complain of; the high price of

stumpage and labor, that oblige them to ask so

much for the product of their mills that there

is no margin left for the trade. It seems as if

either stumpage were too high or else assorted

lumber were too low. A just relative level will

have to be reached sometime in the very nature

of things .- Northwestern Lumberman.

And, he adds, "the

by the timber dealers."

THOS. GRAHAM & Co... File Manufacturers

🛂 .150 FRONT STREET EAST TORONTO.

FILES FOR SALE.

FILES RE-OUT.

ed across the lake, and the timber is for the saw mill of the company at Selkirk.

THE Timber Trades Journal of June 9, says: It would have been astonishing if the fine clear weather and strong northeast winds which have prevailed for the last ten days or so had not brought into London a numerous fleet from the Baltic, for, in fact, the early spring shipments may now be considered due, and these are some of them. Fifty-four timber vessels would sound large enough for any week of the year, but no week would be likely to bring in a greater number than this, because everything favored the arrival in good time of every Swedish sailing vessel that had got her loading by May 20th and some from Norway much later. The import season may be considered fully on now, and we must expect a longer list of arrivals than we have lately been accustomed to record.

THE Toronto Globe says :- In a paper by Mr. Charles Gibb on "Trees and Shrubs of Northern Europe and Asia," in which he records his observations on forestry and horticulture in the fruit growing areas of the Russian Empire, the author alludes to the lack of botanic gardens in Canada. These institutions are to be found throughout Europe, even in Russia and in most of the tropical and other colonies of England, for the interchange of botanical products growing in similar climates. "That this great Do. minion of Canada," he says, "which stretches from the Atlantic to the Pacific should be without a botanic garden or a series of such gardens is a fact without parallel in British colonial

VENEERS.

This may properly be called the age of veneers. At any rate the art of veneer making has been brought down to a fine point. As adept as the grainer is, his business has fallen into disrepute, and there are prospects that in the future there will be no great demand for him. Not many years ago pine was the leading finishing wood, but now, in the finer class of houses, it is crowded out. Hardwood for inside finishing is the thing, and ingenious man has studied the problem, how to make the finishing present the appearance of being solid hardwood without being so. This effort is not one of the most laudable, for at the present time the cost of hardwood lumber is so low that if a man builds for durability, he certainly ought to feel able, if able to build at all, to use solid lumber. But so long as he will not always, the veneer makers step in and supply him with a substitute. The perfection of veneers that are turned out is remarkable. It was not long ago that the kinds of veneers were few, but one by one the different woods have been added, until now they are numerous. The veneers are cut remarkably smooth, requiring but little finish brfore being oiled or varnished, and made as thin as a hundred and seventy-five to the inch .- Northwestern Lumber man.

Acress Lake Winnipeg.

The Winnipeg Times of June 19th says: George Bradbury, the general manager of the Northwest Lumbering Co. has just returned from a trip across Lake Winnipeg from Bull's Head. At this point a raft of 300,000 feet of square timber was taken in tow by the steamer Colville, and was carried safely across and was safely landed at Solkirk. The trip was made in four days, the greater part of the time being spent at the mouth of the Red River, the water being too low to get across the bar without heat your tongs a little, and draw the tempor od, several of the manufacturers having failed, | great difficulty. This is the first raft ever tow- leaves

not, life is sweeping by, go and dare before you die, something mighty and sublime leave behind to conquer time." 366 a week in your own town. 85 outh free. Norisk. Everything new. Capital not required. We will furnish you everything. Many are making fortunes. Ladies make as much as mon, and boys and girls make great pay. Reader, if you want business at which you can make great pay all the time, write for particulars to H. Hallery & Co., Portland, Maine.

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- 4. Its columns are filled with interesting reading matter, valuable alike to the land owner, manufacturer or dealer.
- 5. It costs only \$2.00 per year to have it sent, post-paid, to any address in Canada, and no land owner, lumber dealer, manufacturer or individual in any way connected with timber industries, can afford to do without it.

TO ADVERTISERS.

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

Examine the field, count the cost, and you will at once decide that the CANADA LUMBERMAN is the

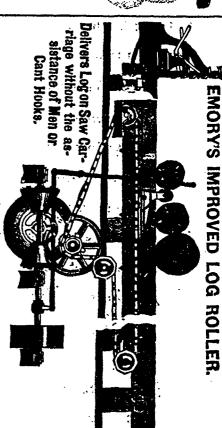
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for placing your goods or wares before the saw mill men and lumber and timber dealers of the Dominica.

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Ewart's Detachable Link Belting and Special Labor Saving Machines for Saw Mills





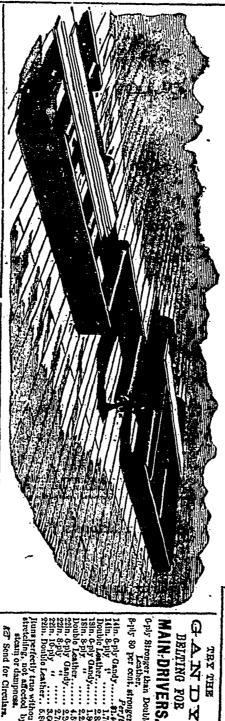
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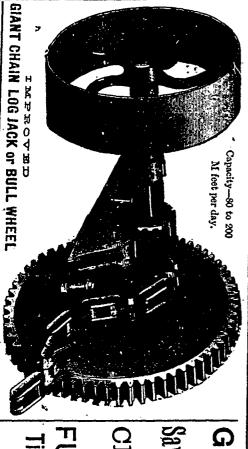
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