185 tons added during the year. This margin under ordinary circumstances, should have left four tonnage at the end of 1883 fully up to the standard of 1881, but our losses were enormous, to less than 40,873 tone of shipping being waitten off the books of St. John during the year. The result is that the port of St. John, which this time last year had 270,186 tons of shipping on its books, has now but 245,118 tons, a lower figure than we have reached since 1871. This partly due to the transfer to Liverpool of upwards of 20,000 of St. John shipping, including the whole Moren fleet, which, since the death of Mr. James H. Moran, has been registered in the name of his brother in Liverpool. It is mainly due to the difficulty of building wooden to the difficulty of building wooden to the profit, the increased cost of building being an element in producing this result.

The following statement shows the tonnage of this port at the end of each year since 1970, anclusive :--

1870	
1871	
1872	248,485
1873	247.227
1874	203,410
1575	270.762
1876	990 078
1870	970 818
1877	070 010
1878	270,010
1879	231,178
1880	275,897
1891	270,138
1882	
200211111111111111111111111111111111111	

BAND SAWS VS. CIRCULAR SAWS.

The question of the disadvantages of the cir-cular saw over the band saw has recently en-aged the attention of the Gorman industrial ournals. The objections urged to the circular The question of the disadvantages of the cirw are, that it is very dangerous to the worknen; requires greater power to drive it than any other kind; makes a much wider cut, prolucing more waste and yielding less product from a given amount of material. The only dvantage allowed by these papers to the cir-Scular saw is that it costs loss than the band gaw. The Mechanica' Association of Muchlkauson in its yearly report, advises that the pircular saw be abolished wherever it is practifally possible to do so, and in Germany this is possible in a great majority of cases.

This action towards the circular saw on the This ection towards the discretely practicable, and, indeed, a wise measure, in view of the rearcity of timber in that country, and he covery possible way. The band saw certainly possesses great advantages over the circular saw in the saving of raw material necessity of occiomizing its manufacture in copinion of persons who have used the band saw, amounting to fully twenty per cent. In fine woods, such as walnut, cherry, maple, ash, etc., this is an item worth looking after by our mill men, and it is well worth their while to consider whether the adoption of the hand saw for cutting such woods would not be a profitable in vestment. For the rapid cutting of the coarse and more plentiful timbers, as oak, pine and poplar, the circular saw, of course, will continue to be used, as, with our people, for a long time to come, rapid work, rather than economy of material, will be the great object in lumber manufacturing .- Southern Lumbermon

The Forests of Grand Isle, Vt.

The region of Grand Isle, Vt., is said to have suffered a depletion of half its forest timber in th past 30 years. Hundreds of acres of land have been cleared entirely of heavy timber and reduced to tillage or pasture, and the forests now standing have been thinged out and culled extensively. It is claimed there is hardly a farm that could replace its codar fonce from its own forests, and scarcely one with sufficient to rebuild its dwalling and out-buildings, while on many farms there is no timber for fuel. Little or no timber planting has been done. The island was at one time famous for its magnificient oaks, the stumps of many grand trunks still standing, and there is hardly a pine tree fit for a spar. Every farm once had a sugar orrhard, and now those are hardly any that can be worked. In fact, the oak, pine hemlock, tamarack, podar, and maple are practically ex-

BOOK-BINDING.

Our facilities for BOOK-PINDING enables us to execute every description of work as well as it can be done in the cities, and at current CITY PRICES.

Blank Books and Account Books of any size Ruled to any pattern desired, and bound in the most appropriate and durable manner.

Books taken out in parts, Bibles, Works of Art, Illustrated Works, Music Books, Magazines, Perodicals and Newspapers bound in any style desired.

Old Books, Albums, &c. Repaired and Rebound.

Maps, Pictures, &c. Mounted and Varnished.

Names Lettered in Gold Leaf on Presentation Books, Bibles, Purses, &c.

THREE FIRST PRIZES FOR BOOK-BINDING AT THE CENTRAL EXHIBITION.

${ TOKER \& Co. }$

Printers, Bookbinders, &c., PETERBOROUGH, Ont.

that the fo. ests were quite extensive. The few groves of second-growth cedar are being largely utilized for hop poles, which bring, standing, 2 or 3 cents each, but if left to grow about 20 years or so they would be worth about \$1 each for posts, telegraph poles, or ship knees.-Northwestern Lumberman.

GAS METERS AS HELPS TO FIRES.

In most buildings designed for multiple tenancy, like great spartment houses and the capacious office buildings which comprise so large a part of the business part of a city, it is customary to provide a separate gas meter for each room or suite of rooms. These meters are commonly placed in closets and out of the way corners, and are very apt to be surrounded with much combustible matter. The connections of meters with the gas pipes are usually, if not always, of lead, a metal that is easily fusible, and the solder with which the plates of the meter are joined together yields even more readily to heat. Let a fire break out in a building containing, as many buildings do, a score or more of these fragile fire feeders, and the hot air sweeping in advance of the fire will quickly melt the lead or solder. The outpouring gas fills the building with an explosive atmosphere which hastons the spread of the flames and keeps up an inexhaustible supply of fuel. Such burning as gas jets, sometimes of great size, are to be seen after almost every city fire, when nothing is left of a building but blackened and broken walls. The gas poured into burning buildings through such openings doubtless helps materially to account for the surprising auddenness with which many buildings have been swept by flames, and in all cases the outflow of gas must seriously counteract, if it does not altogether thwart, the efforts of the firemen. The remedy for this great evil is not so easy to point out. It is obvious that where a multitude of moters are to be distributed through a building they should be more securely incased and provided with infusible connections, or some cans should be devised whereby the gas supply shall be automatically shut off whenever the temperature rises so as to imperil the integrity of the meter. There should also be near the outer door and readily accessible to firemen, some means by which the connection of the house with the gas main in the street can be quickly closed. There is clearly an opportunity here for useful and profitable invention,

WOOD PULP.

astonishing results of the wood-pulping and In some sections an extra good start was secured, paper-making processes, lately introduced, is the | and everywhere the beginning was satisfactory. conversion of the whole of a sapling pine into The soft spell of the week before December paper, without any waste. In Massachusetts, rather discouraged some, but since that time it and others of the New England states, there are I has become much celder again and work is prelarge growths of these pines, which are too gressing rapidly. The profitable condition of small for box boards, and which will not pay lumber manufacturing during the last season for the cutting, in most localities, when used encourages the belief that a very large supply for firewood. These will average some six or of logs will be banked—perhaps larger than hausted, though at first blush it might seem leight inches at the butt, are smooth, and when error before, if conditions continue favourable.

JONES & SON,

Wholesale Lumber & Timber Dealers

39 Broadway, NEW YORK.

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

And all other Hinds of HARDWOOD LUMBER.

White and Yellow Pine Lumber and Timber.

Oak Ship Plank and Timber. Pine Deck Plank and Ship Stock Generally.

growing in clusters are quite tall. The limbs project in joints around the tree, leaving a space between them of from 12 to 24 inches of perfect stock. These trees are now out for paper stock, and trunks, limbs, bark and the needle-like leaves are all worked up by mechanical and chemical processes into roofing and other paper and paste board. It is said that the saving of the limbs and the bark of the tree now pays for the whole cost of the wood.

THE carpenters of the Northern Pacific rail road are building woodsheds in Idaho in order to have sufficient dry wood for the locomotives. The shed at Sand Point is 200 feet long by 75 feet wide and these at Camp Hope, Cabinet, Gravel Pitt 3, Rock Island, Trout and Beaver crocks are 30 by 150 feet. The wood to fill these sheds is already out.

THE Axtecs, before the conquest of Maxico by the Spaniards, recognized the value of trees to a country for the maintenance of moisture and the prometion of irrigation. Prescett, in his history, tel's us that their law contained soven penaltics against the destruction of the woods, which they domed necessary to secure the means of maintaining irrigating canals.

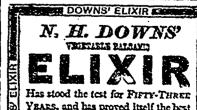
THE Buffalo Lumber World says :- From the The Lumberman's Gazette says: -One of the logging camps the news is generally favourable

Lumber Sale.

Mr. J. M. Irwin's auction sale of lumber at Nassau Mills on Wednesday was very successful, the large quantity offered being readily purchased at satisfactory prices. The competition was keen, there being several buyers from a distance, besides our local buildors and farmors, so the auctioneer Mr. C. Stapleton, was kepbusy with the hids.

THE Timber Trades Journal says :- The Germans appear determined that we shall not be helped by them to ruin our forests. A proposition has been laid before the German Senate to increase the duty on imported unmanufactured wood from 10 to 30 planice per 100 kilogram, and from 15 to 25 planice for nawn wood!

FORTUNATELY Valvular disease of the heart is not very common, its disturbed action may be due to indigestion, liver irregularities &c. A Stomach disturbed with wind, or indigestable food will cause pain and fluttering by crowding on the nerves of the heart. Burdock Blood Bitters will speedily remody all such difficulties.



YEARS, and has proved itself the best remedy known for the cure of Consumption, Coughs, Colds, Whooping Cough and all Lung Diseasesia found of old. Sold Everywhere. Prim 250 and \$1.00 ps. Bottle.

DOWNS' ELIXIR DE