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PUBLISHED SEMI-MONTHLY.

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

VOL. 6.

PETERBOROUGH, ONT., FEBRUARY 1, 1886.

NO. 3.

NEW YORK CITY.

The Record and Guide in its annual review of the lumber trade for the year 1885 says:-The general lumber trade of this city has

been conducted in a quiet, undemonstrative manner during the past year, and at no time did business develop into quick, snappish form. To a portion of the operators this absence of flurry and excitement has been a source of aunoyance and complaint, as their ideas of trading are confined in the main to large sweeping sales and constant fluctuations on value as influenced by a speculative sentiment rather than by natural factors. Happily, however, with no chance to work the market, that class of tr t r has gradually disappeared, and the reports from the more conservative portion and majority of those engaged in handling the various kinds of lumber are by no means as uncheerful as might have been expected. Rates have certainly been low and margins narrow throughout, and that very feature was unoues tionably a strong att-action and material aid in drawing out and preserving a good consumptive demand. So that by careful nursing all good intentions of buyers in listening to and accept ing fair bids, and refusing to take advantage of evident and only momentary necessities of customers, dealers have made a great many sales of all sized invoices that will probably fully equal in the aggregate that of 1884, and it is a question if there is not really an excess. The only comparative record that can be reached, is that of the export trade; and here we find an incresss over the preceding year, notwithstanding constant and positive assertions during the season that the foreign trade was running be hind. These claims, however, were due in a measure to the "cutting up" of the export business among a larger number of dealers, and the additional opportunities offorded shippers by offerings direct from interior points; and those who were most hurt by the change seemed to think that business was losing ground. A change in method should also be allowed for in calculating upon the volume of local consumption, as a great many small dealers as well as to those who purchase direct from the produ-

at the turn of the year is doubtful, owing to the ers seen, to have simply taken about all the room for, partly on account of its comparative cheapness and partly in expectation of a coming good demand; while others fully with as much ability to purchase, and standing high in the matter of clear judgment, are carrying a smaller supply than usual-not because they consider the cost, but rather that they are uncertain and far from sangume regarding the fut to Taking fine and coarse together, however, we think there is a little more stuff in yard than a year ago, but less to fall back upon at near prima poins, such as Albany, etc.; and since the winter tariffs went into effect few, if any, rail offerings except at advanced figures Without the development of any unexpected disturbing element the chances for spring trade are good in this city, and excellent in Brooklyn, and uison its own natural merits the market, as a whole, is no doubt in better form than one year

WHITE PINES FOR LUMBER.

We have frequently referred to the desirability of appropriating many of the waste spots in the farming districts of New England and New York to the growth of white pine for lumber. No better disposition could be made of such spots. A correspondent of the Woon socket Patroit, taking a similar view of this manufacturers and contractors have been added subject, supposes in a practical way that we take a good standard growth of pines, say 150 cers or pretty closely thereto, and this supply trees to an acre, averaging at the end of forty is rarely taken into consideration where the years 250 feet each, board measure, making in exhaustive capacity of our market is in question fround numbers about 10,000 feet, thus average No means are available permitting oven a fair, ing 1,000 feet of lumber for each acre each year guess as to the proportions of leading grades of and on the procest land of the farm. The poor lumber used in compari in with former years; est land, he says, can be bought for \$6 an acre, but as a simple matter of surmise, hardwoods which is, perhaps, a high frice in some sections, have probably made a gain. Values have, but taken as a basis the interest and taxes f touched no lower points than in the preceding each acro would be about 32 outs per year; the timber which had been secured along side, our readers for an improvement in the prices of also without recovery on losses of 1884, seed about 85 per acro, cost of three quarts of recoved by the captain; at a cost to him of cations have been realized, as an advance of his has made a modification in the average, pine seed about; interest on this investment ac year, except in two or three instances; but cost of ploughing, harrowing and sowing the and this has made a modification in the average, pine seed about; interest on this investment 28 of cost on first hand parce's of which consumers cents per year for each acre, making 60 cents timber was sent alongside the vessel, and she without difficulty. We expect to find white-

make the range pretty wide at that; as the "go average of 15 cents more for each acre, we shall as you please" manner in which dealers conduct then have the extra cost for each year of each the business gives nearly every concern, great acro at 75 cents. So the thousand feet of lumbased on inspection, delivery, quantity, terms the risk of fire at 10 cents and all other losses Failures have come to disturb a portion of the ber on the stump. But such price lumber in trade, but disasters have not been heavy or this section is worth \$4.50 per 1,000 feet on the widespread, and the collections and settlements stump, so that the grower may estimate a profit naturally due at about this period are progress. of \$3.50 for each acre each year above the ining very well. The amount of stock on hand come of four per cent on his investment. The acre on this basis gives an income each year of uneven character of the accumulation. Some 29 per cent on the first investment. Even if of the principal and generally far-sighted deal, the croaker is allowed to call this a trick of figures, it certainly centains sufficient suggesstock they could by any possible means find tion to stimulate much thought upon the subject of growing pines on waste lands.

> Ordinary human nature does not like to peculiar, and in which the tew venture, are generally apt to yield larger income.

eights of an meh thick, rough-edged, and is per 1,000 feet, costing from \$2 to \$2.50 per 1,000 feet for the saw bill Many are the acres of wreteled bush pasture and stretches of sand flats, and even scrub oak lands, where a growth of pane might be started up, using a little labor and common sonso - Nannsacturer's Gazette.

AVERAGE ADJUSTMENT ON RAFT-ED TIMBER

The subjoined letter recently appeared in Lley l'a Shipping Garetter-

"Sir, -We beg to call the attention of your have reaped a fair share. For yard rates, per year above first cost for each acre, with the was filled up and came on to her destination wood retain its firm tone throughout the season.

owever, it has been a difficult matter to give exception of the rise of the taxes as the value with a full carge. It is the universal custom — Trader Trades Journal.

other than a nominal line of quotations, and of the land increased, and if this be sent at an at all North American timber ports, when ves sels lose timber from alongside while lostling, and it cannot be recovered, to supply them with more timber to fill up with, so that whether the or small, some different notion of valuation, bee cost 75 cents on the stump, or, putting in timber lost from alongside be recovered or not the vessel has always a sufficient supply of cargo of credit and other minor influences on which and liabilities at 15 cents, the total cost will to complete loading, and thus a full freight is there is an entire absence of uniform action. then be 81 per acre of 1,000 feet of pine luin- sarned. The shipowner, as far as his freight is concerned, has, therefore, no interest whatever in recovering the lost timber, and under these circumstances the timber is recovered for, and only for, the benefit of owners of cargo or underwriters thereon. Hitherto both merchants and underwriters on cargo have accepted this mode of adjustment, but we have now before us the following opinion of a leading firm of London average adjusters: 'We are of opinion that the freight on the cargo so salved, after having broken adrift from the ship, should contribute to the said expenses of salvage.' We ahead forty years, but in the nature of things | cannot but think that the view taken by these those kinds of business which are new and gentlemen is wrong, and wish to point out that the effect of that opinion, if brought into prictice, would be to make owners of ships, or About the seed The cones of pine are not underwriters on freight, hable for a proportion produced every year, and the grower must of expenses incurred solely for the benefit of watch his chance and may have to climb the the cargo, and it would, on becoming better trees after the cones, for they must be gather- known, further have the effect of discouraging med just before they open Then spread them the recovery of timber lost from alongside; for, on a tight floor or old sail cloth until fairly dry, as we have clearly shown, though timber is lost, when they will open and a sharp rap will jar, the vessel still gets a full carge, and, conseout the seed. If the trees come up too thick it | quently, loses no freight; but if the captain would be well to thin them out, and, perhaps, incurs expense in recovering timber, then to transplant a few on the vacant places or even according to the average adjuster's opinion just on a new piece of land, though transplanting is | quoted, he or his owners must claim on the a delicate piece of husiness. In eastern Mas- | underwriters on freight for a portion of same; suchusetts and Rhode Island most of the pine or, if the freight bo not insured, then bear the lumber is used for boxes and is usually saved loss thomselves. The captain will not, under thin, from five-eights of an inch to seven these circumstances, take any further trouble with timber that has gone adrift. In that case bringing now at the box mill from \$9 to \$11 the underwriters on cargo would become the Yours, &c., ufferers.

ALFRED DONELL & Co.

Whitewood

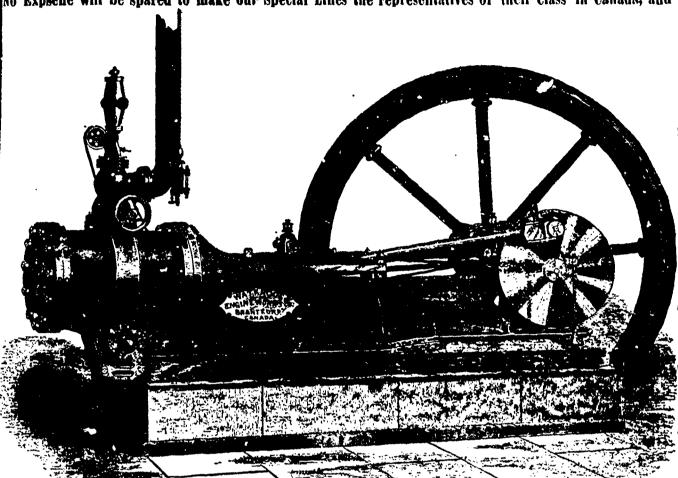
So far as Great Britain is concorned the domand for whitewood is principally, if not entirely, from Scotland, as buyers at the northeast ports profess themselves unable to pay the figures which can be obtained without difficulty from Scotch importers. The English firms. however, are quite willing to contract at a moderate advance on last year's rates, and they residers to the following facts. While a vessel will doubtless augment their offers still further was loading a cargo of pitch pine tumber from as soon as they become convinced that the rafts in a port of the Southern States of Ain. reports received from the Scotch and German erica, bad weather came on, and a quantity of markets are reliable. We have already prepared about £40, and the remainder was lost. More fully 5s, per standard has been established

MONTERAL LUMBER TRADE. Magent. Henderson, McKenzie & Co., shid	l ~	· Auto	0.045.14	7 Lake Superior
		Bootla	8,835.16 23,183. 8	7 Lake Superior
brokers, of Montreal, have favored the CANADA		Lake Huron	16,284. 1	10 Toronto 7,574.25 26 Wm. Owen 500,516
LUNRHRMAN with an interesting statement	- "	Carthaginian	2,991.00	11 Camdon 23,962.59 80 G. M. Stanwood 393,752
showing the shipments of lumber made from		Erl King	6,780.33	18 Eri King
Montreal during the past season. The details	**	Quebec Dominion	23,677.18 7,481.24	d tellion and the state of the
are minute, but the statement is so interesting	6	Coronilla	88,485.00	13 Grassbrooks
to the trade that we give it in full.	44	Carthaginian	1,643.00	14 Aviona 12,772.00 14 Jag Kitchin 416,224
TO THE UNITED KINGDOM.	*	Circaselan	11,294.00	16 West Cumberland 81,624.00 " Anna 551,11
The following is a statement of the deal and	, ,	Titania Oregon	19,461.38	" Fexas
lumber shipments from the port of Montreal	и ви	Achilla F	18,074. 6	18 Lake Huron
during the season of 1885;		Lake Winnipeg	9,449.25	20 Coroau
Dais. Vessel. Que. Side. May 14 28 Sarmatian		Regiue	91,661. 9	Nov. 3 New Brunswick
16 Polynesian 15,982.13	10	Romeo	66,913.00	Quebec Standards
\$1 Carthaginian 3,040.40	11 11 DE	Cynthia	12,488.44 20,883.00	The monthly shipments were as follows:— May
" Sarnia 32,236. 2		Siberian	14,033.00	June 180 160 20 From the lower St. Dawrence ports to the
Lake Winnipeg 4,153.51 Titania	12	Sardinian	8,156.00	July
92 Carmona	14	Ontario	7,143. 6	Anonat 750 778 93 Date. Vestel. Feet.
\$\$ Coresu	er Is de	Sarnia	21,673.17 14,065.00	Santambar 922 025 Ag "une 11 Alinie C. Disguire 110,000
" 3ristol 11.520.00		Lake Champlain	6,608.17	October
\$6 Lake Huron 6,842.48		Rota	15,048.45	November 201,090, 9 0 Transidad 968 000
# Goean King		Norwegian	7,095.00	A total of 5,200,555 15 Quebec standards, or 10 Hollingsides 505 600
98 Parislan 23,417.15	21 22	Sarmatian	4,860.00	69,007,407 feet. Ins total forwarded by steam
27 Polina 6,265.00	44	Cocan King	5,904.00 15,287 21	448 0/00/000/27 BARE BEEL DY MAIL 100/020/30] 41 Tone 000 000
28 Norwegian 10,412,00	**	Capulet	59,010.00	atds. The deal shipments to the United Kingdom Sept. 5 Our Annie
" Oxenholms	44	Montreal	16,881. 7	were made by the following firms:—
" Sootland 17,218.41	2 7	Buenos Ayreau	10,445.00	Quebeo Sids. Atlanta
39 Toronto 24,901.22	41	ParislanFernholms	8,934.40 68,474.00	R. R. Doball & Co
" Cynthia 12,715.00	44	Carmona	38,823.18	John Burstall & Co 715,321.00 Oct. 28 Alice Roy 520,000
\$0 Aylona	44	Barcelona	10,744.54	Bryant, Powis & Bryant 596,226. 1 Total
June 2 Somerset 5,780.00	44	Texas	1,991.52	Robt. Cox & Co
4 Hanoverlan 9,406,00	28	Toronto	15,278.26 5,950.44	Other small shipments 158,526.40 The quantity of pine shipped was 28,519,543
48,700,28	31	Escolona.	20,532.21	Total
EAUGERURIO 1/108/138	Sept. 2	Oxenholme	21,264.00	The following is a statement of the shipments Spars, 688, small towage, 526,828 pieces.
" Montroal	4	Scotland	27,875.00	from Montreal to the United Kingdom during A shipment of 402,599 feet was made on the
6 Glenmorven 93,230.00	 5	Canadian	3,779.00	the years mentioned:— Aspotogan for the west coast of South America.
" Eri King 3,458,00		Juliet	4,248.00 12,594.52	1880
" G.nadian 3,491.00	44	Lake Huron	21,422.25	1881 15 539,207 From Montreal 96 868 149
8 Dracona	44	Brooklyn	15,979. 5	1802 00,014,878 4 Towar St. Lawrence 4.870 000
10 Lake Manitoba 4,078. 4	8	Nova rootlan	9,713.00	1683
11 Grecien 22,515.00	11	Cencordia	9,940,10	1884
" Miniarippi 15,866. \$	15	Carthaginian	11,960.54 12,052.00	1885
12 Barden T(wer 9,572.00	10	Lucerne	8,856.00	The following were the shipments during the Feet.
13 Jeranou	18	Benhope	26,141.00	season from Pierreville: 1880
16 Dominion 2,909.98	44	Mayo	32 255,38	Date. Vessel. Standards 1881
19 BK Occident 7,240.11	**	Samla	22,885,25 5,933.45	July 11 SS Benbrack. 20.745 36 1882
** 88 Devon	19	Cynthia	3,744.00	31 Lauderdale
31 Brocklyn	20	Dominion		Sept. 5 Juliet
. 36 Finebury	22	Siberian	17,209.00	Oct. 24 Maharajah
Polynesian 230,00	23	Benone	16,698.00	A total of 143,820,155 standards, or 3,955,050 RECAPITULATION.
11 Quebec 22,116.12	26	Ontario	7,29-1.63 2,176 00	feet board measure. The total shipments from Montreal Harbor
d Lake Kepigon 3,741.24	"	Colina	14,361.44	The following were the shipments from and Pierreville to the United Kingdom, and
26 Parisian	44	Murciano	41,276.46	Pierreville to the United Kingdom for the years from Montreal and lowe. At Lawrence ports to
29 Lake Huron 6,386. 2	14		8,016.40	mentioned: ithe River Platte, west coast and Australia
		Batavia		Autority Die Tarate
20 Lake Winnipeg 6,388.41	25 **	Montreal	7,322.36	Quebec Side. Feet. Word:— Quebec Side.
** BK Echo 15,115.19	25 26 29	Montreal	7,322.36 8, 33 3.22	1882 79 775.46 = 2,193,835 Quebec Stds.
** BK Echo 15,115.19 July 2 8.3 Polynesian 3.264.00	26 29 Oct. 1 BK	Montreal	7,322.36	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.366.00 ** Sarnia 24,636.19	26 29 Oct. 1 BK	Montreal Lake Champlain Norwegian Nore Lake Superior	7,322.36 8,339.22 852.00 12,609.34 19,226.00	1882
** BK Echo 15,115.19 July 2 8.3 Polynesian 3.264.00	26 29 Oct. 1 BK " 88 2	Montreal Lake Champiain Norwegian Nore Lake Superior Parisian	7,322.36 8,333.22 652.00 12,609.34 19,226.03 8,076,00	1882
** BK Echo. 15,115.19 July 2 8.J Polynesian 3.264.00 ** Sarnia 24,638.19 ** Ontario 14,793.51 ** Titania 7,200.18 ** Amethyst 33,122.48	26 29 Oct. 1 BK	Montreal Lake Champiain Norwegian Nore Lake Superior Parisian Celtic Monarch	7,322.36 8,333.22 652.00 12,609.34 19,726.09 8,076,00 20,376.00	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Sarnia 24,698.19 ** Ontario 147.00.51 ** Titania 7,200.18 ** Amethyst 33,122.48 ** Cirosesian 4,706.00	26 29 Oct. 1 BK " 88 2 3	Montreal Lake Champiain Norwegian Nore Lake Superior Parisian	7,322.36 8,333.22 652.00 12,609.34 19,226.03 8,076,00	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Sarnia 24,686.19 ** Ontario 14,793.51 ** Titania 7,200.18 ** Amethyst 33,122.48 ** Cirosesian 4,706.00 ** Cynthia 6,572.00	26 29 Oct. 1 BK " 88 2 3 " 4 5	Montreal Lake Champiain Norwegian Norwegian Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto	7,322.96 8,333.22 652.00 12,609.34 19,726.03 8,075,00 29,376.00 1,963.35 27,083.62 12,463.46	1882 79 775.46 = 2,193,835 River Platte 181 770.43
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Barnia 24,638.19 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 32,122.48 ** Circaesian 4,706.00 ** Toronto 5,751.48 ** Eiginahirs 55,850.22	26 29 Oct. 1 BK " 88 2 3	Montreal Lake Champiain Norwegian Norwegian Lake Superior Parisian Celtio Monarch Dracona Bammwall Toronto Buenos Ayreau	7,322.36 8,333.22 652.00 12,600.34 19,716.03 6,076,00 90,376.00 57,063.52 17,063.62 12,463.46 2,088.00	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Sarnia 24,638.19 ** Ontario 14,793.51 ** Titania 7,200.18 ** Amethyst 32,122.48 ** Circaesian 4,706.00 ** Toronto 5,751.03 ** Titania 55,830.22 ** Eiginahir 55,830.22	28 29 Oct. 1 BK " 88 2 3 " 4 6	Montreal Lake Champiain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwill Toronto Buenos Ayreau Titania	7,322.36 8,333.22 652.00 12,600.34 10,216.03 8,076,00 90,376.00 1,063.52 27,063.62 12,463.46 2,068.00 17,971.17	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Sarnia 24,636.19 ** Ontario 147.00.51 ** Titania 7,200.18 ** Amethyst 33,122.48 ** Circaegian 4,706.00 ** Toronto 5,751.48 ** Eiginabir 55,850.22 ** Eiginabir 4,863.00 ** Oosan King 10,183.11	28 29 Oct. 1 BK " 88 2 3 " 4 5 7	Montreal Lake Champiain Norwegian Norwegian Lake Superior Parisian Ceitie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas	7,322.36 8,333.22 652.00 12,600.34 19,716.03 6,076,00 90,376.00 57,063.52 17,063.62 12,463.46 2,088.00	1882
** BK Echo, 15,115.19 July 2 8.J Polymenian 3.264.00 ** Sarnia 24,698.19 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaesian 4,706.00 ** Cynthia 6,572.00 ** Toronto 5,751.43 ** Elginshir: 55,850.22 ** Elginshir: 10,183.11 ** Oosan King 10,183.11 ** Bristol 5,124.00	29 Oct. 1 BK " 88 2 3 " 4 5 7	Montreal Lake Champiain Norwegian Norwegian Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buence Ayreau Titania Enrique Texas Coreau	7,322.36 8,333.22 652.00 12,609.34 19,716.00 90,376.00 1,963.35 27,063.45 12,463.46 2,088.00 17,971.17 47,870. 1 8,038.60 7,451.0	1882
** BK Echo. 15,115.19 July 2 8.J Polynesian 3.264.00 ** Sarnia 24,638.119 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaesian 4,706.00 ** Cynthia 5,751.63 ** Toronto 5,751.63 ** Eiginahir 55,830.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 5,124.00 11 Lake Champlain 6,067.39	29 Oct. 1 BK " 88 2 3 " 4 5 7 " 9	Montreal Lake Champiain Norwegian Norwegian Lake Superior Parisian Celtio Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Ocean King	7,322.36 8,333.22 552.00 12,609.34 19,226.03 8,076,00 90,376.00 1,963.35 27,063.62 2,068.00 17,971.17 47,870. 1 8,058.60 24,243.00	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Sarnia 24,636.19 ** Ontario 14,793.51 ** Titania 7,200.18 ** Amethyst 33,122.48 ** Circaegian 4,706.00 ** Toronto 5,751.48 ** Eiginahir 55,850.22 ** Eiginahir 4,883.00 ** Oosan King 10,183.11 ** Bristol 6,124.00 II Lake Champlain 6,687.30 II Lake Champlain 6,687.30 12 Montreal 15,237.10 15 Buence Ayree 8,739.00	29 Oct. 1 BK " 88 2 3 " 4 5 7	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Corsau Cosan King Brooklyn	7,322.36 8,333.22 12,509.34 19,726.03 8,075,00 90,376.00 1,963.35 27,083.52 12,463.46 2,088.60 17,971.17 47,870. 1 8,038.60 7,451.0 24,243,00 10,204.17	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.864.00 ** Sarnia 24,636.19 ** Ontario. 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaegian 4,706.00 ** Toronto 5,751.00 ** Toronto 5,751.00 ** Elginahir 55,850.22 ** Elginahir 4,883.00 ** Oosan King 10,183.11 ** Bristol 6,124.00 II Lake Champlain 6,687.32 18 Montreal 15,237.10 15 Busnos Ayres 8,789.00 ** Texas 3,876.42	29 Oct. 1 BK 4 88 2 3 4 5 7 4 10	Montreal Lake Champiain Norwegian Norwegian Lake Superior Parisian Celtio Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Ocean King	7,322.36 8,333.22 652.00 12,509.34 19,226.03 8,076,00 90,376.00 90,376.00 17,083.65 12,463.46 2,083.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243,00 10,204.17 9,187.54	1882
** BK Echo. 15,115.19 July 2 8.J Polynesian 3.264.00 ** Sarnia 24,638.119 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaesian 4,706.00 ** Cynthia 5,751.63 ** Toronto 5,751.63 ** Eiginahir 55,850.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 6,124.00 11 Lake Champlain 6,067.39 12 Montreal 15,237.10 15 Bueno Ayres 8,789.00 ** Texas 3,876.42 ** Lake Superior 12,804.27	29 Oct. 1 BK " 88 2 3 " 4 5 7 " 10 10 " 12 " 14 16	Montreal Lake Champiain Norwegian Norwegian Norwegian Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buence Ayreau Titania Enrique Texas Coreau Cocan King Brooklyn Lake Nepigon Giecian Ovagon	7,322.36 8,333.22 12,509.34 19,726.03 8,075,00 90,376.00 1,963.35 27,083.52 12,463.46 2,088.60 17,971.17 47,870. 1 8,038.60 7,451.0 24,243,00 10,204.17	1882
** BK Echo. 15,115.19 July 2 8.J Polynesian 3.264.00 ** Sarnia 24,638.118 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaesian 4,706.00 ** Toynthia 55,751.43 ** Elginahir 55,850.22 ** Elginahir 10,183.11 ** Bristol 6,124.00 ** Ocean King 10,183.11 ** Bristol 6,067.39 ** Buence Ayree 8,789.00 ** Taxas 3,876.42 ** Lake Superior 12,804.27 ** Lake Superior 12,804.27 ** Lake Buparior 12,804.27	29 Oct. 1 BK	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Triania Enrique Texas Coreau Cosan King Brooklyn Lake Nepigon Guecian Coyseon Lake Huros	7,322.36 8,333.22 12,509.34 19,726.03 8,075,00 90,376.00 1,963.35 27,083.52 12,463.46 2,088.60 7,451.0 4,245,00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.05	1882
** BK Echo. 15,115.19 July 2 8.J Polynesian 3.264.00 ** Sarnia 24,638.119 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaesian 4,706.00 ** Cynthia 5,751.63 ** Toronto 5,751.63 ** Eiginahir 55,850.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 6,124.00 11 Lake Champlain 6,067.39 12 Montreal 15,237.10 15 Bueno Ayres 8,789.00 ** Texas 3,876.42 ** Lake Superior 12,804.27	29 Oct. 1 BK " 88 2 3 " 4 5 7 " 10 10 " 12 " 14 16	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Ocean King Brooklyn Lake Nepigon Giecian Ovegon Lake Huros Concordia	7,322.36 8,333.22 652.00 12,509.34 19,226.03 8,076,00 90,376.00 1,963.35 27,083.65 12,463,46 2,083.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.05 16,118.24	1882
** BK Echo. 15,115.19 July 2 8.J Polymenian 2.4(980,19 ** Sermia 24(980,19 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaedian 4,706.00 ** Toronto 5,751.43 ** Elginahir: 55,850.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 6,124.00 II Lake Champlain 6,087.29 18 Montreal 15,237.10 15 Buenos Ayres 3,876.42 ** Lake Superior 12,804.27 18 BK Hafraford 16,269.00 17 88 Oxenholme 11,155.29 18 Carmona 225,728.00 20 Spotland 18,912.44	29 Oct. 1 BK " 88 2 3 " 4 6 7 " 10 " 12 " 12 " 14 16 " 19	Montreal Lake Champiain Norwegian Norwegian Norwegian Lake Superior Parisian Ceitie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Cocan King Brooklyn Lake Nepigon Guscian Oyagon Lake Huros Concordia Gienrath	7,322.36 8,333.22 552.00 12,609.34 19,226.03 8,076,00 90,376.00 1,083.55 12,463.45 2,088.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.7	1882
** BK Echo. 15,115.19 July 2 8.J Polynesian 2.4(380,19 ** Sarnia 24(380,19 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaedian 4,706.00 ** Toynthia 55,751.43 ** Elginshir: 55,850.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 5,124.00 II Lake Champlain 6,087.33 18 Montreal 15,287.10 15 Buenos Ayres 8,789.00 ** Taxas 3,876.42 ** Lake Superior 12,804.27 18 BK Hatrword 16,269.00 17 88 Oxenholme 12,155.29 18 Carmona 28,728.00 20 Spotland 18,912.45 21 Economa 17,900.00	29 Oct. 1 BK	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Coreau Cocan King Brocklyn Lake Nepigon Giecian Covegon Lake Huros Concordia Gienrath Oxenholms Dominion	7,322.36 8,333.22 652.00 12,509.34 19,226.03 8,076,00 90,376.00 1,963.35 27,083.65 12,463,46 2,083.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.05 16,118.24	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 3.264.00 ** Sarnia 24,638.119 \$ Ontario 14,793.51 ** Titania 7,300.18 & Amethyst 32,122.48 ** Circaesian 4,706.00 ** Cynthia 6,572.00 ** Toronto 5,761.48 ** Eiginahir 55,250.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 6,124.00 II Lake Champlain 6,087.39 Bontreal 15,237.10 15 Buence Ayree 8,789.00 ** Texas 3,876.43 ** Lake Superior 12,804.27 IS BK Hafrajord 10,269.00 17 88 Oxenholme 10,155.29 18 Carmona 22,728.00 30 Scotland 11,912.45 21 Eccolona 17,096.00 22 Sourcest 4,715.00	29 Oct. 1 BK 2 88 2 3 4 6 6 7 10 10 11 12 11 11 11 11 11 11 11 11 11 11 11	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Coean King Brooklyn Lake Nepigon Guecian Ovagon Lake Huros Concordia Glenrath Oxenholms Dominion Carthaginian	7,322.36 8,333.22 12,609.34 10,226.03 8,076,00 20,376.00 1,903.35 27,083.65 12,463.46 2,083.00 17,971.17 47,870. 1 8,038.60 7,451.0 24,243.00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.05 16,118.24 37,907.00 19,455.00	1882
## BK Echo	29 Oct. 1 BK # 88 2 3 * * * * * * * * * * * * * * * * * *	Montreal Lake Champiain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayresu Titania Enrique Texas Coreau Ocean King Brooklyn Lake Nepigon Giscian Oyagon Lake Huros Concordia Glenrath Oxenholms Dominion Carthaginian Cynthia	7,322.36 8,333.22 652.00 12,509.34 19,226.03 8,076,00 90,376.00 1,083.65 12,463.46 2,083.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243.00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.05 16,118.24 87,867.00 19,455.00 1,104.25 20 18,165.24	1882
** BK Echo. 15,115.19 July 2 8.3 Polynesian 2.4,638.19 ** Ontario 14,793.51 ** Titania 7,300.18 ** Amethyst 33,122.48 ** Circaesian 4,706.00 ** Toronto 5,761.48 ** Eiginahir 55,830.22 18 Sardinian 4,883.00 ** Ocean King 10,183.11 ** Bristol 6,124.00 11 Lake Champlain 6,067.29 12 Montreal 15,237.10 15 Buence Ayree 8,789.00 ** Texas 3,876,42 ** Lake Superior 12,804.27 18 BK Hafraford 10,269.00 17 88 Oxenholme 10,155.29 18 Carmona 22,728.00 20 Sociland 12,912.45 21 Eccalona 17,080.00 22 Somerset 4,715.00 23 Parisian 9,038.00 24 BK Merritt 19,643.00	29 Oct. 1 BK 2 88 2 3 4 6 6 7 10 10 11 12 11 11 11 11 11 11 11 11 11 11 11	Montreal Lake Champiain Norwegian Norwegian Norwegian Lake Superior Parisian Celtie Monarch Dracona Eammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Cocau Cocau Hing Brocklyn Lake Nepigon Guecian Oyagon Lake Huros Concordia Glenrath Oxenholms Dominion Carthaginian Cynthia Barcelona	7,322.36 8,333.22 652.00 12,609.34 19,726.02 8,076,00 90,376.00 1,063.55 12,463.45 2,088.00 17,971.17 47,870. 1 8,058.50 7,451.0 94,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,055.05 16,118.24 37,867.00 10,455.00 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25	1882
## BK Echo	29 Oct. 1 BK # 88 2 3 4 6 5 7 # 10 10 11 12 # 14 16 # # 21 # # 23 # # 1 23	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Coreau Cocan King Brocklyn Lake Nepigon Glecian Congen Lake Huros Concordia Glenrath Oxenholms Dominion Carthaginian Cynthia Barcalona Sarnia	7,322.36 8,333.22 12,609.34 19,726.02 8,076,00 90,376.00 1,963.35 27,068.62 12,463.46 2,068.60 7,451.0 24,249,00 10,204.17 9,167.54 8,618.00 10,204.13 14,035.05 16,118.24 37,867.00 19,455.00 11,104.25 252.00 18,165.00 11,104.25 252.00 18,165.00 11,104.25 252.00 18,165.00 11,104.25 252.00 18,165.00 11,104.25 252.00	1882
## BK Echo	29 Oct. 1 BK # 88 2 3 4 6 7 7 11 10 10 11 12 11 12 11 11 12 11 11 11 11 11 11	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayresu Titania. Enrique Texas Coreau Cocan King Brooklyn Lake Nepigon Giscian Oyagon Lake Huros Comoordia Glenrath Oxenholms Dominion Carthaginian Cynthia Barcelona Sarnia. Lake Winnipeg Sardinian	7,322.36 8,333.22 652.00 12,609.34 19,726.02 8,076,00 90,376.00 1,063.55 12,463.45 2,088.00 17,971.17 47,870. 1 8,058.50 7,451.0 94,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,055.05 16,118.24 37,867.00 10,455.00 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25 11,104.25	1882
## BK Echo. 15,115.19 July 2 8.J Polymenian 2.4(980,19 ## Sarnia 24(980,19 ## Ontario 14,793.51 ## Titania 7,300.18 ## Amethyst 33,122.48 ## Circaedian 4,706.00 ## Toronto 5,751.43 ## Elginahire 55,850.22 ## Bardinian 4,883.00 ## Ocean King 10,183.11 ## Bristol 6,124.00 ## I Lake Champlain 6,087.29 ## Montreal 15,287.10 ## Taxas 3,876,42 ## Lake Superior 12,804.27 ## BR Hafraford 16,299.00 ## Taxas 3,876,42 ## Lake Superior 12,804.27 ## Elginahire 12,909.00 ## Taxas 3,876,42 ## Lake Superior 12,804.27 ## BR Hafraford 16,299.00 ## Taxas 3,876,42 ## Lake Superior 17,999.00 ## Taxas 3,976,42 ## Carmona 22,728.00 ## Taxas 3,876,42 ## Taxas 3,876,42 ## Lake Superior 17,999.00 ## Taxas 3,876,42 ## Taxa	29 Oct. 1 BK # 88 2 3 4 6 7 7 # 10 10 11 12 # 14 16 # # 19 # # # 23 # # 24 27 29	Montreal Lake Champiain Norwegian Norwegian Nore Lake Superior Parisian Ceitie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Cocan King Brooklyn Lake Nepigon Guscian Oyagon Lake Huros Concordia Gienrath Oxenholms Dominion Carthaginian Cynthia Barcalona Sarula Lake Winnipeg Sard Mining Bardlina Sarula Lake Winnipeg Sard Mining Sard Mining Bardlinan Soctland	7,322.36 8,333.22 652.00 12,609.34 19,226.03 8,076,00 90,376.00 1,033.35 27,083.62 12,463.45 2,083.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.00 13,019.37 14,035.00 11,104.25 27,867.00 10,455.00 11,104.25 9,431.47 12,595.00 13,995.00	1882
## BK Echo	29 Oct. 1 BK # 88 2 3 4 6 5 7 10 10 11 12 11 11 12 11 11 12 11 11 12 11 11	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Coreau Cocan King Brocklyn Lake Nepigon Glecian Congen Lake Huros Concordia Glenrath Corental Conthia Barolona Sarnia Lake Winnipeg Sardinian Sootland Colina Colina Colina Colina	7,322.36 8,333.22 12,509.34 19,726.03 8,076,00 90,376.00 1,963.35 27,083.62 12,463.46 2,088.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 10,108.24 37,867.00 11,104.25 252.00 262	1882
## BK Echo	29 Oct. 1 BK # 88 2 3 4 6 7 7 # 10 10 11 12 # 14 16 # # 19 # # # 23 # # 24 27 29	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Corsau Cosan King Brooklyn Lake Nepigon Guecian Coyagon Lake Huros Concordia Glenrath Oxenhol me Dominion Carthaginian Cynthia Barcalona Barcalona Sarnia Lake Winnipeg Sardinian Scotland Colina Colina Colina Pensher	7,322.36 8,333.22 12,609.34 19,226.03 8,076,00 29,376.00 1,903.35 27,083.62 12,463.45 2,083.00 17,971.17 47,870. 1 8,038.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 13,019.37 14,035.05 16,118.24 37,907.00 12,455.00 14,165.26 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32 10,217.32	1882
## BK Echo. 15,115.19 July 2 8.3 Polynesian 3.264.00 ## Barnia 24,638.119 ## Ontario 14,793.51 ## Titania 7,200.18 ## Amethyst 32,122.48 ## Circaesian 4,706.00 ## Toronto 5,751.48 ## Eiginahirs 55,830.22 ## Eiginahirs 55,830.22 ## Bristol 10,183.11 ## Bristol 6,087.39 ## Montreal 15,287.10 ## Harmord 15,287.10 ## Buence Ayres 3,876.43 ## Lake Superior 12,804.27 ## BK Harmord 16,090.00 ## Texas 3,876.43 ## Lake Superior 12,804.27 ## BK Harmord 16,209.00 ## Texas 3,876.43 ## Lake Superior 12,804.27 ## BK Harmord 16,209.00 ## Texas 3,876.43 ## BK Harmord 17,090.00 ## Garth 34,757.11 ## BR Somenset 4,715.00 ## Garth 34,757.11 ## BR Harmord 18,643.00 ## BLake Nepigon 4,967.43 ## BERGEN TOWER 7,197.30 ## BERGEN TOWER 7,197.30 ## BERGEN TOWER 7,197.30 ## BERGEN TOWER 7,190.00 ## BERGEN TOWER 3,100.00 ## Grecian 5,582.00	29 Oct. 1 BK # 88 2 3 4 6 5 7 10 10 11 12 11 11 12 11 11 12 11 11 12 11 11	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Coreau Cocan King Brocklyn Lake Nepigon Glecian Congen Lake Huros Concordia Glenrath Corental Conthia Barolona Sarnia Lake Winnipeg Sardinian Sootland Colina Colina Colina Colina	7,322.36 8,333.22 12,509.34 19,726.03 8,076,00 90,376.00 1,963.35 27,083.62 12,463.46 2,088.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 10,108.24 37,867.00 11,104.25 252.00 262	1882
## BK Echo. 15,115.19 July 2 8.J Polymenian 2.4(980,19 Sarnia 24(980,19 S Onkarlo 14,793.51 Titania 7,300.18 Amethyst 33,122.48 Circaedian 4,706.00 Toronto 5,751.48 Toronto 5,751.48 Eliginahiro 55,850.22 Eliginahiro 55,850.22 Eliginahiro 6,087.20 Coon King 10,183.11 Bristol 6,124.00 Li Lake Champlain 6,087.20 Bristol 5,124.00 Li Buence Ayree 3,878.00 Traxas 3,876,42 Lake Superior 12,804.27 Lake Buence Ayree 12,788.00 Traxas 3,876,42 Lake Superior 12,804.27 Lake Superior 12,804.27 Lake Superior 17,909.00 Sociland 18,912.48 Eliginahiro 9,038.00 Eliginahiro 19,643.00 Eliginahiro 19,643.00 Eliginahiro 19,038.00 Eliginahiro 19,700.00 Eliginahiro 19,700.00 Eliginahiro 19,700.00 Eliginahiro 19,700.00	29 Oct. 1 BK # 88 2 3 4 6 6 7 # 10 10 10 # 12 2 # 14 16 # 17 9 9 30 31 1 2 17 2 18 18 18 18 18 18 18 18 18 18 18 18 18	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Coean King Brocklyn Lake Nepigon Guetian Condona Lake Huros Concordia Glenrath Oxenholms Dominion Carthaginian Cynthia Barcalona Sarnia Lake Winnipeg Sardinian Scotland Colina Pensher Lake Champlain Montreal Wandrahus	7,322.36 8,333.22 12,509.34 19,726.03 8,076,00 90,376.00 11,963.35 27,068.62 12,463.46 2,068.60 7,451.0 10,704.17 9,167.54 8,618.00 10,204.17 9,167.54 8,618.00 10,455.00 11,06.25 252.00 11,104.25 252.00 11,104.25 10,217.32 9,431.47 12,595.40 4,607.00 13,098.00 6,763.45 31,104.00 12,251.3 8,572.45 31,104.00 12,251.3 8,572.45	1882
## BK Echo. 15,115.19 July 2 8.J Polynesian 3.264.00 ## Sarnia 24,638.118 ## Ontario 14,793.51 ## Titania 7,300.18 ## Amethyst 33,122.48 ## Circassian 4,706.00 ## Cynthia 5,761.43 ## Elginshire 55,850.22 ## Elginshire 55,850.22 ## Elginshire 55,850.22 ## Coean King 10,183.11 ## Bristol 6,125.00 ## Ocean King 15,237.10 ## Bristol 15,237.10 ## Bristol 6,067.33 ## Hontreal 15,237.10 ## Buence Ayres 3,878.00 ## Taxas 3,876.42 ## Loke Superior 12,804.27 ## BK Hafraford 16,269.00 ## BK Hafraford 16,269.00 ## B Oxenholme 12,155.29 ## Carmona 228,728.00 ## Sociland 13,912.45 ## Ecolona 17,908.00 ## Farisian 9,038.00 ## BK Merritt 18,643.00 ## BARS Nerigon 4,067.42 ## Barden Towar 7,197.30 ## Barden Towar 7,197.30 ## Barden Towar 7,197.30 ## Barden Towar 3,100.00 ## Seandinavian 3,100.00 ## Seandinavian 3,100.00 ## SE BK All 9,700.00	29 Oct. 1 BK 2 3 3 4 6 6 7 10 10 11 12 11	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Coean King Brooklyn Lake Nepigon Guecian Coyagon Lake Huros Concordia Glenrath Oxenhol me Dominion Carthaginian Cynthia Barcalona Sardia Sardian Sardian Collina Collina Collina Collina Collina Pensher Lake Champlain Montreal Wandrahm Newnastle City	7,322.36 8,333.22 12,609.34 19,226.03 8,076,00 29,376.00 1,903.35 27,083.62 12,463.45 2,083.00 17,971.17 47,870. 1 8,038.60 7,451.0 24,243,00 10,204.17 9,167.54 8,618.00 10,204.17 9,167.54 8,618.00 11,035.05 16,118.24 37,907.00 14,165.26 10,217.32	1882 79 775. 46 = 2,193,835 1883 92,655.17 = 2,548,020 1884 142,989.00 = 3,932,702 1885 143,820. 1 = 3 955,050 FROM THE ST. LAWRENCE TO THE PLATTE. The following is a statement of the lumber shipments from Montreal to the River Platte during the season of 1885:— Date. Vessel. Pect. June 11 Eulle. 231,550 22 Glosming 1,186 211 Sokoto 764,083 24 Kate Harding 505,667 39 Peacomaker 558,376 31 Hamingla 418,665 7 Osterra 430,569 17 Vibilia 418,446 18 Rondo 655,927 11 Vibilia 419,444 13 Maggic Dart 333,007 16 G. W. Halle 333,007 18 Galena 329,357 18 Galena 339,007 18 Gatyaburg 819,564 18 Fronter & Sisters 655,316 Aug. 4 Leine 725,734 6 Trust 405,367 10 Thomas Fietcher 435,762 11 Henry A. Scichfield 505,761 11 Rose of Sharon. 275,031 22 Raiph R Peake 589,030 15 Galena 275,731 26 Raiph R Peake 589,030 17 Cupid 515,208 18 Steam to United Kingdom 3 206 629.28 Sail do. do. 1817 To.48 13 Mex re Platte 1139 801.31 4 West Coast S. A. 14,639.53 4 West Coast S. A. 14,639.53 4 West Coast S. A. 14,639.53 4 Australia 14035 00 Total 405 do. 1917 To.48 4 West Coast S. A. 14,639.53 4 West Coast S. A. 14,639.53 4 Australia 14035 00 Total 405 do. 0. 1817 To.48 4 West Coast S. A. 14,639.53 4 Australia 14035 00 Total 405 do. 1917 To.48 4 Australia 14035 00 Total 405 do. 0. 1817 To.48 4 Australia 14035 00 Total 405 do. 0. 1817 To.48 4 Australia 14035 00 Total 405 do. 0. 1817 To.48 4 Leine 150,503 4 The total shipments of phosphates from Montreal have been as follows:— 1889
## BK Echo.	29 Oct. 1 BK # 88 2 3 4 6 6 7 # 10 10 10 # 12 2 # 14 16 # 17 9 9 30 31 1 2 17 2 18 18 18 18 18 18 18 18 18 18 18 18 18	Montreal Lake Champlain Norwegian Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayresu Titania Enrique Texas Coreau Ocean King Brooklyn Lake Nepigon Guecian Ovagon Lake Huros Concordia Glenrath Oxenholms Dominion Carthaginian Cynthia Barcelona Sarnia Lake Winnipeg Sardinian Scotland Colina Pensher Lake Champlain Montreal Wandrahm Newcastle City Norwegian	7,322.36 8,333.20 12,609.34 10,226.03 8,076,00 90,376.00 90,376.00 17,971.17 47,870. 1 8,038.60 7,451.0 24,243,00 10,204.17 9,187.54 8,618.00 13,019.37 14,035.05 16,118.24 37,967.00 10,455.00 11,504.25 252.00 18,165.26 10,217.32 9,431.47 14,505.05 10,217.32 9,431.47 14,505.05 15,281.47 12,595.40 4,607.00 13,095.00 5,763.40 12,251. 3 8,572.45 3,000.00 15,283.00 2,880.00	1882
## BK Echo. 15,115.19 July 2 8.J Polymenian 2.4(980,18 Sarnia 24(980,18 S Onkarlo 14,793.51 Titania 7,300.18 & Amethyst 33,122.48 **Circaedian 4,706.00 7 Cynthis 6,572.00 **Toronto 5,751.43 **Elginshire 55,850.22 18 Sardinian 4,883.00 **Oosa King 10,183.11 **Bristol 6,124.00 11 Lake Champlain 6,087.29 12 Montreal 15,287.10 15 Buence Ayree 3,878.00 **Texas 3,876,42 **Lake Superior 12,804.27 16 BK Hafraford 16,269.00 17 88 Oxenholme 19,155.29 18 Carmona 22,728.00 20 Spoijanid 18,912.44 21 Ecolona 17,080.00 22 Somerset 4,715.00 **Garth 34,757.11 23 Parisian 9,038.00 24 BK Merritt 19,643.00 **S Lake Nepigon 4,967.42 **Barden Towar 7,197.30 **Bississippi 8,730.00 25 Storm Queen 50,020.43 **Ashbrooke 35,780.00 26 BK Ali 9,700.00 27 Sominson 14,070.27 28 BK Ali 9,700.00 28 BK Ali 9,700.00 29 BK Johann 14,070.27 20 SS Dominion 1,740.21 **Paruian 2,138.60	29	Montreal Lake Champlain Norwegian Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayresu Titania Enrique Texas Coreau Cocan King Brooklyn Lake Nepigon Giscian Oyagon Lake Huros Concordia Gienrath Ogenholms Dominion Carthaginian Cynthia Barcalona Sarnia Lake Winnipeg Sardinian Scotland Colina Pensher Lake Champlain Montreal Wandrahus Newastle City Norwegian Minerva	7,322.36 8,333.22 652.00 12,609.34 19,226.03 8,076,00 90,376.00 1,033.35 77,083.62 12,463.46 2,083.00 17,971.17 47,870. 1 8,058.60 7,451.0 24,243.00 10,204.17 9,187.54 8,618.00 13,019.37 14,035.05 16,118.24 8,618.00 19,455.00 10,217.32 9,431.47 12,595.40 4,607.00 13,095.00 6,763.45 31,104.00 12,251.0 38,572.45 31,104.00 12,251.0 12,251.0 12,251.0 12,251.0 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00	1882
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## BK Echo. 15,115.19 July 2 8.J Polymenian 2.4(980,18 Sarnia 24(980,18 S Onkarlo 14,793.51 Titania 7,300.18 & Amethyst 33,122.48 **Circaedian 4,706.00 7 Cynthis 6,572.00 **Toronto 5,751.43 **Elginshire 55,850.22 18 Sardinian 4,883.00 **Oosa King 10,183.11 **Bristol 6,124.00 11 Lake Champlain 6,087.29 12 Montreal 15,287.10 15 Buence Ayree 3,878.00 **Texas 3,876,42 **Lake Superior 12,804.27 16 BK Hafraford 16,269.00 17 88 Oxenholme 19,155.29 18 Carmona 22,728.00 20 Spoijanid 18,912.44 21 Ecolona 17,080.00 22 Somerset 4,715.00 **Garth 34,757.11 23 Parisian 9,038.00 24 BK Merritt 19,643.00 **S Lake Nepigon 4,967.42 **Barden Towar 7,197.30 **Bississippi 8,730.00 25 Storm Queen 50,020.43 **Ashbrooke 35,780.00 26 BK Ali 9,700.00 27 Sominson 14,070.27 28 BK Ali 9,700.00 28 BK Ali 9,700.00 29 BK Johann 14,070.27 20 SS Dominion 1,740.21 **Paruian 2,138.60	29	Montreal Lake Champlain Norwegian Nore Lake Superior Parisian Celtie Monarch Dracona Bammwall Toronto Buenos Ayreau Titania Enrique Texas Coreau Cocan King Brocklyn Lake Nepigon Guedian Congent Comman Condian Glenrath Corent Corphia Barcelona Sarnia Lake Winnipeg Sardinian Sardinian Sernia Colina Pensher Lake Champlain Wandrahu Newessile City Norwegian Minerya Escalona	7,322.36 8,333.22 650.03 19,726.03 90,376.00 90,376.00 1,963.35 27,083.62 12,463.46 2,088.60 7,451.0 10,204.17 9,167.54 8,618.00 10,204.17 9,167.54 8,618.00 10,204.17 9,167.54 16,118.24 37,867.00 11,04.25 252.00 11,104.25 10,217.32 9,431.47 12,595.40 4,607.00 13,019.00 13,019.00 12,251.3 8,572,45 31,104.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 13,285.00 14,285.00 15,285.00	1882 79 775.46 = 2,193,835 1883 92 655.17 = 2,548,020 1884 142,989.00 = 3,932,702 1885 143,820 1 = 3955,030 FROM THE ST. LAWRENCE TO THE PLATTE. The following is a statement of the lumber shipments from Montreal to the River Platte during the season of 1885 :-

0	19 Minnie Carmichael 808,872
0	25 Mary I. Baker 647,805
5	26 Wm. Owen 500,516
4	80 G. M. Stanwood
0	8 Venice 530,321
0	10 Republic 002,273
0	12 Dora 745,185
0	14 Jas, Kitchin
4	" Icavus 354,108
9	" Peticodiac 682,001
0	28 Patagonia
5	Nov. 3 New Brunswick
5	Total
3	Equal to 962,383,21-65 Quebec standards.
0	From the lower St. Lawrence ports to the
o	River Platte:—
3	Date, Vessel, Feet,
8	June 17 Annie C. Maguire
В	29 Aukel Christian 260,000 July 3 Augusta 200,000
9	9 Ironsides 368 000
r	10 Hollingsides 595,600
3	Aug. 14 M. K. Campbell 347,000
3	" Iona 268,000
3	Sept. 5 Our Annie 304,000
	15 Amicus 350,000
	Aukuuk 505,000
0	" Arvak
0	
5	Total
0	Equal to 179,854.30-55 Quebec standards.
-	The quantity of pine shipped was 26,519,543 feet; spruce, 4,825,000 feet; total, 31,344,543.
6	Spars, 688, small towage, 526,828 pieces.
8	A shipment of 402,599 feet was made on the
B	Aspotogan for the west coast of South America.
	The following is a recapitulation:-
	Feet.
	From Montreal
	Total
į	For the years mentioned the shipments
е	were:—
	1880
8	1881 16,147,911
6	1882
2	1883
0	
3	1885
0	The total shipments from Montreal Harbor
	and Pierreville to the United Kingdom, and
	from Montreal and lows. St Lawrence ports to
1	the River Platte, west coset and Australia
ł	Were:-
5	Quebec Stds. By steam to United Kingdom3 208 629.28
D	Sail do. do 181 770.43
3	" River Platte1 139 801.31
0	" West Coast S. A 14,639.53
	44 Australia 14 053 00
	Total4,558,894.45
1	or 125,269,613 feet board measure.
١	PHOSPHATES.
٥	The total shipments of phosphates from
3	Montreal hars been as follows:
3	707s. 1880
7	1881
8	1882
7	1883
6	1884
7	1885
7	
6	In this climate it is of the greatest importance

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LIVERPOOL STOCK

tomparative Table showing Stock We take from the Timber Trades Journal the follows of Timber and Deals in Liverpool on Dec. Sist 1884 and loco, and also the Consumption for the month of Dec. 1834 and 1895 :-

	Slock, Dec. 31st. 1884.	Stock, Dec. Mat. 1985.	Consuraption for the month of Dec. 1884.	Consumption for the month of Dec. 1885.
Quebec Square Pine	. 200,000 14.	226,000 ft.	66.000 ft.	70,000 ft.
Waney Board		20,000 ·	4 000 "	8,000 "
st. John Pine	21,000	02,000	10,000 "	22,000
Other Ports Pine	66,000 "	20,000 "	8,000 "	10,000 "
Dad Pine	. 05,000	250,000 "	41,500 "	39,000 **
Pitch Pine, bown		610,000 "	91,000 **	84,000 "
Bawn	201,000	78,000 **	15,007 **	23,000 "
Plankforgory		64,000 **	H,000 **	21,000 "
Dantsic, &c., Fir		65,000 11	3,000	10,000 **
sweden and Norway Fir	A-10 000 11	239,000	24,000 "	45,000 **
Oak, Canadian and American		100,000 "	85,000 **	76,000 "
Panks	0.000.0	6.060 "	0,000 **	0.000 **
Baltic	* *****	35,000 11	7,007	10,000 ''
Kim		22,000 11	1,000 "	4,000 **
Ash	AAA 11	144,000 **	1 000,88	20,000 44
Birch		171,060 14	22,000 "	1.000 44
East India Teak	00.000	120,000 "	11,000 "	0,000 **
Groenheart	25,307 stds	20,500 stds.	0.000 stda.	0,000 atda
N. B. N. S. Spruoe Deals.	1.00111	741 "	4,139 **	3,15) "
Quebechine Doals & boards	5,281	6,038 ''	1,030 "	1,579 "
Do. Spruoc	0 500 14	4.105 "	401 **	418 11
Baltio Red Doals, &c		260 **	00 **	75 "
Heltio Boards	~ ~ ~ ~ * * * * * * * * * * * * * * * *	1,839 "	682 11	495 **

ATGERS.

"Like many of our most useful inventions," said a prominent auger maker recently, "the principle of the augor now in use all over the world was discovered by accident. In 1680 Benjamin Paugh, an Englishman, while watching some school boys endeavoring to bore a hole n the ground with a piece of iron barrel hoop, noticed that after the hole had been sunken some distance into the earth and the flexible motal of their improvised boring tool had become heated, it twisted and carried the dirt up to the sureace nicely, and he could not see why the same principle should not apply to wood. The invention of the auger was the result. The screw auger," he continued, "is an American invention, and was invented about 100 years ago by Thomas Garret, who lived in the vicinity of Oxford, in Chester County, this State, where most of the black augers are still made.

"Most of the bright tools are made down east, but one of the principal manufactories is in this city. The old-fashioned pod auger is still used in Germany and England.

"The single screw auger is also an American invention, and was first discovered by accident by a Philadelphian. It is the only auger that can be used to any satisfaction in very hard woods, where the double-screw augers become

domed."

Although every one is perfectly familiar with this common place tool, but comparatively few know the process of its manufacture. In making augers the iron which form the main or spiral part is welded into the steel of which the tip is made before forging. 'a ne bar is then put under hammers and forged into shape. It is then put into what is called a wringing machine and twisted up in a rough state into the spiral form, after which it is passed through crimpers, giving a uniformity of twist. The augers are next put through straightners and revolved, making them perfectly straight, when they are ready for putting on the head, which is the most delicate operation in their manufacture and requires the work of a skilled artizan, They are then subjected to a grinding out procoss, which consists of putting them through two rubber wheels to rough polish the twist.

The fitter-up then takes hold of them and lightons or fits; the head; then the filers file down and sharpen the heads, after which they pass through the hands of the polishers, where they are polished and hardened ready for mar ket.-Ex.

THE NEW YEAR AND THE OLD.

From a business standpoint the year which has just ended was notable principally as a period of recovery. Since January, 1885, values have been slowly rising. In many instances the progress made appears but slight, and still nearly overywhere along the line the advance is sufficiently marked to be obvious to the most superficial observer, and in some industries the improvement is very noticeable. At the present moment it is safe to say that the outlook is decidedly encouraging. All the conditions easential for a prosperous year are now at hand. It unsettled, but with this single exception the commercial and financial conditions now ruling are thoroughly satisfactory.

The improvement in the iron trade, regarded in business circles as an especially encouraging sign, has been followed by equally favorable changes in most of the other leading industries. The stock market is particularly active, and as regards the lumber trade the reports from every important centre of this industry are very satisfactory. In Maine the season closes with stocks well sold out at the mills, and every indication of a greatly increased demand with the opening of spring. In the Middle States the situation is on the whole quite as encouraging. In the South we find the mill-men, as a rule, fairly satisfied with the business of 1885, and confi dent of still better fortune in the present year. To those who are acquainted with the resources of the Southern States this confidence seems perfectly justifiable. From the great lumber regions of the Northwest, where the trade has been most depressed, the advices are all highly encouraging. A year ago the manufacturers were complaining that the increased production had not been followed by a demand to corres pond, and that stocks of lumber were accum ulating to an alarming extent. But during 1885 the production of lumber was greatly curtailed, while the demand through the year was much larger than was anticipated. The was much larger than was anticipated. result has been a large reduction in the stock now at hand as compared with that available a year ago. This combined with the certainty of a heavy demand in the spring and the favorable business conditions generally prevailing, has infused a hopeful feeling through all branches of the lumber industry of the Northwest.

There is in these circumstances nothing to warrant any extravagant anticipations as regards the business of 1886, but judging from present appearances, noting the abundance of money, the firmness in the stock market, the rising tendency in the prices of raw materials and manufactured goods and the increasing de mand for labor, it seems certain that 1886 will be, as regards the volume of business transweted and prices obtained, a great improvement on the year which has just expired .- Saw Mill

FORCE, POWER, AND WORK.

There exists in the minds of very many engineers with whom we come in contact but a very vague conception of the meaning attached to these three little words. Not so much does the difficulty appear to be in getting at a general sense of meaning for the words, as to separate the general idea conveyed into its factors, and to discorn clearly just what portion of this whole is meant by force, by power, and by work. Let us therefore consider each in their order, and study their composition and relation.

We all have a pretty good idea of what force is, but the difficulty appears to be to disconnect the idea of force with that of motion. We can easily appreciate the force of gravity when we see a weight falling to the earth, but it is

existing, after the body has reached the ground, tending over to draw it nearer the earth's centro whenever its support shall be taken from under it. Force is exerted by the magnet as much in holding a nail against its pole as in moving it up there. When the nail was in motion, or the body was falling to the earth, there was power developed. Power is the pro duct of force and space. If a magnet could lift a weight of one pound against the force of gravity through one foot, it would develop one foot pound of power. If the force of a cylinder full of team can push a piston against 110 pounds through three feet, it will develop 330 foot nounds of nower.

Now what is the difference between power and work. We k takes account of the time in which power is exerted. If the engine mentioned was 48 inches in streke it would have to make one revolution to move the load through three feet as above. Now suppose the engine to run 100 revolutions per minute we should have 110 pounds move through 300 feet in a minute, which would equal one horse power of work. If the engine runs at 50 revolutions per minute we should have only 150 feet per minute =16,500 foot pounds per minute-one-half a a horse power, and if it runs 200 revolutions per minute it would develop 66,000 foot nounds per minuto=two horse power of work. Work is the consumption of power and the horse power. the measure of work is the measure of the rate of its consumption of power. It is evident, therefore, that a machine, the resistance which it requires a certain force to overcome, its resistance twice the number of times in a given time, and that it is not the pounds of force which a machine is capable of exerting which qualify its consumption of power unless we take into account the distance through which this force is exerted. For instance, a test of the power required by a certain shop was unsatis factory to the man who owned the engine. He maintained that certain embossing presses consumed almost as much power in themselves as our instruments showed for the whole shop, and called our attention to the irresistible force with which the dies were pressed into their work. The press was a heavy one with a large fly wheel and a toggle joint with an enormous leverage. It was run at a moderate rate of speed and a man with a crank upon the fly wheel could easily have run the press at its usual rate and have exerted that enormous pressure upon the dies as many times a minute as when it was run by power. The force exerted was truly great, and would have measured a good many pounds, but the distance through which it was exerted, the depth of the impressions was a very small fraction of an inch smaller still of a foot, and when reduced to foot pounds of power amounted to but little, and this number of foot pounds was not repeated a sufficient number of times per minute to amount to much when reduced to horse power of work. It is surprising to see how much power is required by a small engine running at a high rate of speed. We have seen an emery wheel with out work being ground upon it absorb a full one-third of the power required by a good-sized machine shop, while the variation in the load afforded by stopping and starting a large planer was comparatively slight,-Boston Journal of Commerce.

RAISING OAK TREES.

During the last few years large quantities of corns have been taken from this country for the purpose of planting. White oak acorns are preferred, and they have been chiefly obtained in the State of Missouri. They are generally planted on sandy or broken land that is intend ed for pasturing sheep. In Great Britain sheep are accustomed to eat acorne, and it is considered profitable to mise them for sheep food. No arrety of oak has received much attention at the hands of the planters of fruit trees. They state that that the trees make a very slow growth and for this reason they prefer to plant trees that grow rapidly and furnish fuel and timber in a shorter time. A foreign writer suggests that oak may be raied to excellent advantage in connection with other varieties of trees that grow rapidly. He admits that oaks grow slowly while they are young, but states is true that the silver coinage question is still more difficult to comprehend the force as still that they increase in size rapidly when they are depression prevailing everywhere.

fifteen or twenty years old. If care is exercised they may be cut down so as not to mjure the young oaks. These trees being removed the young oaks will grow rapidly and com pletely occupy the ground. Oaks are easy to propagate, as the acorns can be obtained at small cost and are almost certain to germinate. Acorns are much easier to manage than large nuts like those produced on the hickory or pecan tree. They can be planted where it is desired to have them grow, or in nursery rows, from which the small trees may be taken up when they are at a suitable size to be transplaned. The wood is excellent for fuel, timber and post. -New Orleans Times.

ROOFS OF PAPER.

A roof pronounced superior to that of slate, because of its lightness and other advantagor, is now made of any fibrous pulp. From this material tiles of any shapo desired are formed by pressure under machinery, or any other method which may suggest itself. I'ressed into the designs wished for the pulp tiles are partially dried previous to being subjected to a water-proof solution. Thoroughly impregnated with the preparation to resist moisture they are baked to harden in them the water-proof mixture. After the baking the tiles are treated to a mixture imparting an enameled surface; to this is added a coating of sand, whereby the pulp is rendered proof against the action of heat or flame. By the use of different colored sands a variety of tints may be imparted to the tiles, which, after the application of the enamoling mixture and sands are baked a second time, after which they are ready for use. Desides the inherent lightness of pulp ties, which obviate the necessity of a heavy frame to support a weighty roof, the pulp tile, being tough and not brittle like state, is far less liable to be broken from blows, stones th.own upon them or human footsteps. Again, slate tiles cannot be laid compactly together on a roo', on account of their brittleness, which prevents their being drawn tightly together by nails. Through the fibrous pulp nails may be driven as close home as in shingles, thereby bending them closely to the bed and together without any possibility of lateral movement, or being blown away in a high wind, as slates loosely fastened on roofs so frequently are. Nails penetrate the pulp tiles more easily than rhingles, and lie closer together, being more elastic than wood.-Boton Journal of Commerce.

TEETH AND SPEED.

The kind of teeth and the speed of the saw should be determined by the hardness and gram of the wood, its greater or lesser freedom from moisture, from gummy or resinous matter, whether frozen or not, also its size. The harder and the smaller the more upright should be the teeth, and the less their velocity and rate of sawing. Pine, willow, and alder require large, acute and well-pitched teeth; oak, mahogany, and resewee I, need perpendicular teeth, close together: yellow and pitch pine and larch being gummy and resinous, require grease to clear tho blade: California redwood cuts like castern pine. It is generally concluded that for pine, pruce, and hemilock the teeth should be cut tangent to a circle half the saw's diameter. Cedar cuts best with a peg tooth of fine gauge, pitch and space. Mahogany, ash and English olm are best out with the gullet or mill tooth, of small space and nearly upright pitch. For maple, oak, and all timber known as hardwood swaged teeth answer. For hardwood in warm weather, Norway pine, and chestnut, teeth partly bent and partly swaged are often used. For water-soaked spruce and pine spring-set teeth are generally used .- Timber Trades

A SUMMARY of last years lumber business in Minneapolis, as given by the Pionecr-Press, shows a decrease in the mill cut over the previous year of about 120,000,000 feet, a decrease in the boom scale of about 14,000,000 feet, a decrease in receipts of about 13,000,000 feet, and a decrease in shipments of about 8,000,000 feet. The figures for ten years past, however, show a lar, increase in business, and the reduction of last year was only an incident of the governi

Chips.

VASSAR, Mich., has a new company engaged in the manufacture of wood paving blocks.

THERE is a mill being built at Tower, Minn., which is surrounded by pine enough to last forty years if cut at the rate of 100,000 feet a

NEW YORK City imports of lumber from the British Provinces in 1885 amounted to 58,305,420 feet. Of shingles 1,050,000 were

THE exports of lumber, exclusive of hardwoods, from the port of New York during 1885, amounted to 76,079,000 feet. The total value of the exports of wood and its product was **27.001.343.**

New Hampshine ships millions of fish barrel staves, made of sapling pine, to Michigan and other States bordering on the lakes. The resinour character of the wood commends it to the packers of fish for holding brine.

THE strength of the chestnutwood is to oak as 51 to 100. Cohesive force, according to Trodgold, is from 9,570 to 12,000; its specific gravity is 535 according to Tredgold, and 657 according to Rondelet; weight per cubic foot about 30.6 pounds.

The amount of lumber inspected in Boston during 1835 was 98,493,000 fe-t compared with 98,741,000 in 1884, and 119,000,000 in 1882. Western and Canada pine are no inspected, and a large amount of yellow pine and spruce goes directly to the yards at the mill inspec-

ABOUT 6 o'clock on the morning of the 13th inst, the saw mill belonging to Mr. Geo. Mc-Gregor, lot 31, con, 10, township of Hamilton, Ont, was discovered to be on fire. The mil with all the machinery and a large quantity of lumber were totally destroyed. No insurance. The fire was without doubt the work of an incendiary.

Mr. A. Hoppins, of the Rathbun Company, has purphased the entire cut of the Hinchinbrooke saw mill. It will measure 130,000 feet, and consists of pine, hemlock, basswood, oak, and ash. Mr. Hoppins will also purchase all the ties and fence posts between Kingston and Renfrew.

THE Lethbridge, N. W. T., News says: party of men came down from the N. W. C. & N. Co's. log camp in the mountains on Tuesday evening. They report that the largest drive ever made in this country will take place in the spring, and that the south fork of the Old Man's river will be full of logs for 15 miles. The logs are said to be best ever got out.

MESSES. J. A. J. Craig & Co., of Montreal, Quebec, have just fitted out one of the most extensive furniture factories in Canada. Mr. Craig has been for years in this business, and is one of the few men who have grown rich in manufacturing furniture. About a year ago he was burned out, but has concluded to try it

THE amount of lumber cut by the saw mills on the line of the Grand Rapids & Indiana railroad in Michigan in 1885 is reported as 240,404,203 feet, of which there was 152,275,478 feet on hand. The amount of shingles manufactured was 244,248,000, of which 38,250,000 were reported on hand at the close of the

A COMMON method of grafting is to make a transverse section in the stock and a vertical slit above it, and the bud is pushed upwards into its position; this method, we believe, if carefully done, rarely fails. As the sap descends by the bark the bud thus placed above the transverse section receives abundance. There are numerous other methods.

A LEGAL case which came up at Toronto on Jan. 18th is thus reported :- Re Rainy Lake Lumber Co.-J. D. Edgar for the Toronto General Trust Company moved on petition under 45 Vic., cap 23, sec. 43, for possession of properties embraced in mortgages to the applicants. J. R. Roaf for the company. W. A. Foster, Q. C, for shareholders and contribu-Motion suspended for one month, the

MOUNTAIN MAHOGANY

In Nevada there is a peculiar wood known as mountain mahogany. The tree does not grow large. A tree with a trunk a foot in diameter is much above the average. When dry the wood is about as hard as borwood, and being of a very fine grain might no doubt be used for the same purpose. It is of a rich, red color, and very heavy. When well seasoned it would be a fine material for the wood-carver. In the early days it was used in making boxes for for shafting, and in a few instances for shoes and dies in quartz battery. Used a fuel it creates intense heat. It burns with a blaze as long as ordinary wood would last, and then is found (almost unchanged in form) convert to a charcoal that lasts about twice as leng as ordinary wood. For fuel it stands much higher than any other kind of wood: indeed, a cord of it always brings the same price as a ton of coal. The only objection to it as a fuel is that it creates such an intense heat as to burn out stoves more rapidly than coal, however bad .-Exchange,

Ancient Saw Mills.

More than 300 years ago an English historial gave the following description of a saw mull: "The saw mill is driven with an upright wheel, and the water that maketh it go is gathered whole into a narrow trough, which deliverth the same water to the wheels. This wheel has a piece of timber put to the axle tree end, like the handle of a broch, and fastened to the end of a saw, which, being turned by the force of the water, hoisteth up and down the saw, that it continually eateth in, and the handle of the saw is kept in a rigall of wood from swerving. Also the timber lieth, as it were, upon a ladder, which is brought by little to the saw with another vice."

company to pay debenture holders within one month, if payment not made, order for possession to go. Costs out of estate.

Catarth-A New Treatment.

Catarth—A New Treatment.

Perhaps the most extraordinary that success has been achieved in modern science has been attained by the Dixon treatment for Catarth Out of 2,000 patients treated during the past six months, fally ninely percent, have been cured of this stubborn mulady. This is none the less startling when it is remembered that not five per cent, of the patients presenting themselves to the regular practitioner are benefited, while the patient medicines and other advertised cures never record a cure at all. Startling with the claim now generally believed by the most scientific men that the disease is due to the presence of living parasites in the tissue, Mr. Dixon at once adapted his cure to their extermination; this accomplished the Catarth is practically cured, and the permanency is un questioned, as cures effected by him forn years ago are cures still. No one elso has ever attempted to cure Catarth in this manner, and no other treatment has ever cured Catarth. The application of the remedy is simple and can be done at home, and the present season of the year is the most favorable for a speedy and permanent cure, the majority of cases being cured at one treatment. Sufferers should correspond with Messrs. A. H. DixNN & SON, 35 King street west, Toronto, Canada, and enclose a tamp for their treatise on Catarth. Montreat Start.

The American Hotel, BARRIE, ONT.

Collier St., Adjoining Market.

RATES REASONABLE, CENTRAL LOCATION, FREE BUS TO AND FROM ALL TRAINS.

EF Every accommodation for Commercial and LUMBERMEN. W. D. McDONALD, Proprietor.

Johnston's Fluid Beef



The nourishing, pelatable and warmin giving qualities of Johnston's Fluid Beef has caused this invaluable pregaration to before a favorite and fashionable beverage for the winter season. It is now obtainable on disught at the leading hotels and restaurants throughout the Domision

Wrought Iron Shanty Cook Stoves

The Best Article Ever Offered to the Trade.

librare much pleasure in drawing attention to my WROUGHTIRON COOKING STOVE, for Shanty, Hotel and Boarding House use. These agrees made of Heavy Sheet Iron, the top and lining of the fire-box being of Heavy Cast Metal and all the connecting parts of substantial Warrante Van Wark. The discontinuous of these Standards of the Stan parts of substantial Wrought Iron Work. The dimensions of these Stoves are as follows:

SINGLE OVEN STOVE

Top surface contains six le-inch holes, with ample room between, and one oven 20,221,219. Fire box takes 28-inch wood.

DOUBLE OVEN STOVE

The Double ()ven has a top surface containing tweive 10-inch pot boles, with two ovens, each 23 x 21 x 19. One fire-box of suitable size for area to be heated. Below will be found Testimonials from some of the leading Lumbermen, who have used my Wrought Iron Cook Stoyes since I commenced manufacturing them. They are the names of gentlemen who are well known and relinu'e, and will carry more weight than any recommendation of my own could do.

The Best Stove I have ever Used

Ретеквогосон, Мау 31, 1880.

ADAM HALL, Let, Peterborough. Dear Sir,—I have used your Wiought from Cooking Stove in our lumber. Ing operations since its introduction here, and have no healtation in saying that I profer it to any other. For durability, economy and efficiency, where a large number of men are employed, it is the best stove I have ever used. You can, with confidence, offer it to hotels, boarding houses and innbermen.

Yours truly, THOS. GEO. HAZLITT.

The Stove for Lumbermen.

PRYKRROKOUGH, June 1st 1880

ARAM HALL, Esq., l'eterborough. My Dear Sir,—We have used your Wrought Iron Cooking Stove and find it is very satisfactory for lumber operations, especially so on drives. We can recommend it highly.

Yours truly, J. M. IRWIN 4.

In addition to the above I can refer you to the following lumber thrms who use my Wrought Iron Range exclusively in their camps :-

THE GEORGIAN BAY LUMBER CO THE LONGFORD LUMBER CO	
MESSRS, GILMOUR & CO	Trenton and Ottaws
MESSRS, RATHBUN & CO. THE MUSKOKA LUMBER CO	

EVERY STOVE GUARANTEED.

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

ADAM HALL, Peterborough.

THE HENDERSON LUMBER CO. Limited.

DAVID II HENDERSON, President: NORMAN HENDERSON, Vice-President, CHAS, H. WALTERS, Sec-Trene Dealers in, and manufacturers of, Dimension and Bridge Timber. Sawn Lumber, Clapboards, Shingles and Lath. Packing Cases and Boxes a Specialty.

OFFICE, MILLS AND YARDS: 312 to 356 William Street, MONTREAL, and at ROXTON FALLS, P. Q.

RENEW YOUR SUBSCRIPTION TO

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LUMBER MERCHANTS

And Shipping Agents.

OSWEGO, N.Y.

J. T. LAMBERT,

Lumber and Commission Agent.

ORDERS FOR DIMENSIONS AND ALL OTHER KINDS AND GRADES OF

American Lumber

PROMPTLY ATTENDED TO.

Timber Limits and the Square Timber Trade a Specialty. Office, Wellington Street, OTTAWA. 1141



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THE RECOGNIZED HEIGHER FOR FARM AdVERTILEMENTS
And contains more of them than all other Canadian papers
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AT combined. I than 39,000 readers of the right class.
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MBERM

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All communications, orders and remittances should be addressed and made payable to The Petersorous Review Printing and Publishing Company (Limited), Peterborough, Ont.
Communications intended for insertion in the Canada Luissemans, must be accompanied by the name of the writer, not necessarily for publication, but as a granutes of good felits. Communications to insere insertion (if scoepted) in the following number, should be in the hands of the publishers a week before the dashe of the next issue.
The Canada Luissemann is filed at the Offices of Messas Savust Deacon & Co., 184 Leadenhall Street, Loodon, England, who also receive advertisements and subscriptions for this paper.

PETERBOROUGH, Ont. PEB. 1, 1886.

MICHICAN parties have recently bought s single birth on the Spanish River for a consider ation of \$120,000.

New buildings to the cost of \$2,300,000 were erected in Montreal, Ont, during the past

THE Kingston & Pembroke Railway Company has purchased the car works at Kingston, Ont. for \$20,000.

MOSES BALLAH, while chopping near Essen Centre, Ont., was instantly killed by a falling limb.

In some parts of northern Michigan cedar ties have advanced from 16 to 18 cents each, and posts from 5 to 6 cents.

A BELIABLE authority makes the statement that there will be six hundred miles of new railway completed in Missouri the present

EZRA RUST, of Saginaw, Mich., sold this week 30,000,000 feet of pine on Tobacco river to A. A. Brockway, of the same place for \$200,000.

Tue brig Adria, from St. John, N. B., for New York, with lumber, put into Vineyard Haven, January 13th, having lost part of her deck load in a heavy gale.

Gow & Majo shipped 1,100 tons of sawdust from Muskegon to South Chicago last year for terra cotta manufacture. Next year they propose to ship 100 tons a week.

THE boom in Muskegon river, above Newago broke loose lately and 500,000 feet of logs went down theriver. The logs belonged to the Newaygo Manufacturing Company, and will have to be sawed at Muskegon.

A big tree was recently cut at Moore & Tan ner's camp on the Au Sable riverr It was cut iuto a stick 108 feet long, which measured 27 inches at the top and contained 10,300 feet.

A round man named Addison, of Minden, had his thigh bone broken recently in one of the Parry Sound Lumbering Co.'s camps by a log rolling down from a skidway, over a sleigh, and striking him.

THE Emery Lumber Company of Bay City have about 15,000,000 feet of logs skidded on one of the branches of French River. The timber is said to be of superior quality and will be taken to Tawas for manufacture.

MESSUS Folsom & Arnold, of Bay City and Albany, are owners of very valuable timber on the Spanish river and have a raw mill at its mouth-the first mill there. Their cut the past season was about 12 000,000 feet, averaging about ten per cent. to uppers.

AMERICAN pitch pine appears to be as much a pet of the German revenue system as American hog products. Besides a duty of 30 per cent levied upon the importation of American pitch pine, the railroads of Germany, which are under governmental control, make an almost prohibitory discrimination against it. If any part of a car load is pitch pine the whole load is classed as such.

As much as it has been predicted that walnut would be hustled saide by other woods, says the Northwestern Lumberman, it is still in the ring as vigorous as ever. Good walnut lumber finds ready sale in any of the leading markets, and buyers from both home and foreign markets are busy looking it up. Any other wood that grows will have more than it bargained for if it at tempts to satisfactorily take its place.

Since the recent sale of newly offered berthe by the Crown Land Department, says a Toronto report, there has been greater activity in Algotimber sales than for years and the value of atumpage has considerably appreciated Transactions in limits appear to be on the basis of from \$1 to \$2 per thousand feet for white pine. In some cases the Algoma birch is a very valuable item, but account is rarely taken of the Norway or spruce in fixing values.

MIRAMIOHI,

J. B. Snowball's wood trade circular for the year 1885 has been received. It states that the depression which existed during 1884, and which was supposed to have reached bottom, has continued through the year 1885, now closed. The advisability of the Provincial Government continuing its present policy in regard to the tax on the timber supply is questioned. It is pointed out that while in 1884 the tax represented only about 20 cents per thousand superficial feet, it is now increased until the direct tax and land tax (the tax is levied in two forms) amount to \$1.40 per thousand superficial feet. The shipments from that port for the year show a falling off of 20 per cent from last year, and last year's was 27 per cent, less than the year 1883. The total shipments from the Province show a shortage of 12 per cent. There would have been a much greater reduction, says the circular, were it not for the excuraive quantity of Nova Scotia goods shipped from St. John this season, which passed as St. John production. Nova Scotia shipments, however, show an increase of 5,277 St. Peters burg standards, the figures being 40,221 stds. in 1885 against \$4.544 standards in 1884. The only ports in New Brunswick that show any increase are Sackville, Shediac and C xagne, all ports bordering on Nova Scotia.

The stock being wintered is estimated at 17,000,000 superficial feet, against 26,000,000 last year and 40,000,000 in 1883. The amount of work being done in the forests is small, much less than for many years past, and this with the very small stock being held over, will make next season's shipments show a still further reduction, which must continue as long as the present unremunerative prices prevail. The stock being wintered at St. John, and also

the new supply, are on a restricted scale, and consequently all are being held for improved prices.

The shipments for the past ten years from Miramichi, given in superficial feet, were as

	Sup. Ft.
1876	116 000,000
877	150,000,000
878 ;,,,,,,,,,,,,,,,,,,,,,,,,,,,	106,000,000
879	114,000,000
880	. 155,000,000
981	128,000,000
\$82	117.000.000
883	149,000,000
884	108,000,000
885:	87,000,000
The disturbed of At - Atom	4 - 1 1007

he distribution of the shipments in 1885 wa as follows:-To Great Britain, 47,239,692 sup. feet; Ireland, 24,984,538; France, 10,223,213; Australia, 1,534,672; Africa, 2,262,198; Italy, 1,005,715; tetal, 87,250,028.

The shipments from St. John to trans Atlan tic ports for the past 8 years were as follows:

Sup. ft. Deals. Birch. Piv

	Sup. Jt. Deals.	Biren.	zune.
1878	188,168,610	7,989	2,493
1879	153,279,357	11,548	3,237
1880	215,485,000	16,035	2,441
1831	210,281 730	5,134	1,734
1882	201,413,717	7 576	3,332
1883	181,517,932	11,778	3,883
1884	164,829,825	14 006	3,836
1885	152,543 026	13,769	3,686

Dalhousie and Campbellton, in 1885, shipped 13 796,950 super. feet deals, scantling and ends and 5,267 tons timber; Richibucto and Buctouche, 11,909 050 super. feet; Bathurst, 10, 160,242 feet. 29 tons birch and 588,140 pieces palings; Shediac, 5,797,035 super feet; Caraquet, 2,231,787 super. feet, 56 tons timber and 111,000 pieces palings; Sackville, 7,117,000 super, feet.

The total lumber shipment of New Brunswick in 1885, compared with 1884, was as follows:

,	1894.	1885.
No. of vessels	595	519
Tons		343,988
Sup. ft. deals, etc	333,191,893	291.747.383
Tons timber		

The shipments from Nova Scotia in 1885 were as follows:-No. of vessels, 172; tonnage, 92, 087; sup. feet deals, etc., 79,647,765; birch timber, 8,389; palings, 13,346. The shipments of deals from Nova Scotia to trans-Atlantic ports in the years mentioned were :-

1882	٠.	٠.	٠.	•	 		٠		 85,752,	,000
1883	٠.			٠,	 	 			 77,918	000
1884				٠.	 	 		•••	 69,159,	.000
									79,647,	

The shipments of deals, etc., given in superficial feet, from the Nova Scotia ports mentioned, were as follows:-Guysborough, 2,061,642; Shelbourne, 704,880; Pictou, 300,795; Yarmouth, 2,516,250; Paraboro, 31 383,000; Port Medway, 525,000; Margaret's Bay, 2 000 000; Amherst, 16,124,947; Halifax, 12,155,251; Ship Harbour, 1.500,000; Sheet Harbour, 6,000,000; Liscomb, 752,000; Bridgewater, 3,624,000.

THE PINE TREE OF KARASATE.

A few miles from Otsu, Jepan, is Karasate, a little point of land running into the lake, where a Shinto temple has stood for centuries. The thrine is covered by the arma [of a pine tree, whose trunk is more than four feet in circumference, and the branches, trained out on supports, cover over an acre of ground. Of all the wonders of this part of the world, this old nine tree of Karasate deserves a first mention, and one wanders amazed under the great canopy of long drawn out, interlading branches. and studies the intricate way in which the limbs of the sturdy old pine have been twisted, looped, tied and braided, as if they had been so many sticks of candy. The ends of the branch-

branches of the pine tree, half of the small boys and girls carried a smaller brother or sister on their backs. One dear bright-eyed little rascal capered about most bewitchingly, and hardly left my elbow. When I sat down he sat down and kicked his sandalled feet against me. He leaned over and read the same page of the guide book with me; discovered my watch, held it in his hand to hear it ticking, and made himself at home in the most betwiching, half-timid and polite way. The other children, drawn up in a silent array before us, wondered no less at the foreigners themselves than at the favor or audacity of their young companion.

When we finally rose I picked up a few cones and the empty shell of askin from which some locust had lately flown. A sweet shy little girl saw me doing it, and ran to gather more and present them with many bows, the head of her baby brother on her back bobbing and rolling around alarmingly as she did it. The present of a big copper cent made her bow more than ever, and in a second the whole troop of youngsters were off over the sand and up the tree hunting for cones and locust shell.-St. Lovis Globe-Demacrat.

LONDON TRADE OF 1885.

The annual circular of Simson & Mason, of London, says: Since the year 1881 the wood trade of the port of London has been most upsatisfactory, alike to shippers and importers. 1885 has closed, and resembles for the most part the previous years. All branches of industry throughout the country have continued depressed, and the wood trade has been in sympathy. Until there is a better tone in the general trade of this country it would appear that the wood trade is not likely to show much improvement. The recent fall-off in consumption is, in a large measure, due to the suspension of building operations in the metropolis and its suburbs; from this large and active source of consumption the demand has been for some months past gradually falling away. London has been overbuilt and requires some period of rest. Although there are no immediate signs of a better state of things, yet there is concurrent opinion that prices have seen their lowest and any change must be for the better. Money was made and lost during the spring of the year through a "war scare" which soon subsided, and this has been the only exception to the monotony of dullness which has characterized the past year. Freights have ruled exceedingly low from all ports, and some wood charters have been closed, perhaps, at a cheaper rate than over previously known.

The total import amount to 806,000 tons, being a reduction of 40 000 tons on 1884, and 30,000 below the average of the last five years. The total consumption, as indicated by the deliveries from the Surrey Commercial and Millwall Docks in sawn and planed wood, has been 205,050 Petersburg standards, sgainst 232,000 Petersburg standards in 1834 being a fall-off of 12 per cent. Compared with 1883, the fall-off is 13 per cent, with 1882 15 per cent, and with 1881 18 per cent. The fall-off as against last year equals about 500 Petersburg standards per week. Of hewn wood, excluding sleeps, the consumption, as indicated by the Surrey Commercial Dock deliveries has been a fair average one, amounting to 69,000 loads against 68,000 in 1884.

WHY WILL YOU cough when Shiloch's Unrewill give give immediate relief Price to ets 50 cts. and \$1. For sale by Ormond & Walsh druggists, Feterborough.

DR. OARSON'S STOMACH BITTERS will oure the worst forms of Dyspepsia, Indigestion, and all billious complaints. Large bottle, 60 cents. Ge to your druggist and get a bottle.

Advice to Methers.

many sticks of candy. The ends of the branches reach out over the water on either side, and a heavy stone wall on the lake front protects the venerable tree from ever being washed away by storms or floods. There is a tiny little box of a shrine up among the branches, and the pilgrims look strangely enough when they clap their hands loudly and stand with clasped palms, turning their faces up to the branches overhead.

All the small children in Karasate followed us about as we wandered under the guarded.

All the small children in Karasate followed us about as we wandered under the guarded.

All the small children in Karasate followed us about as we wandered under the guarded.

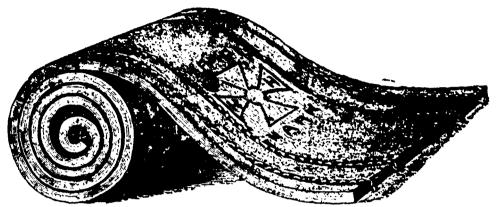
Ale you disturbed at hight and broken of your rest by a sick child students in get a bottle of Airs. Winslow's Boothing Byrup for children and custing teeth? If so, send at once and get a bottle of Airs. Winslow's Boothing Byrup for children and populity and custing its about as the sum and not continued to the test and best for sale by all draggists throughout the world Price St exists to bettle.

HARRIS, HEENAN & Co.

124 AND 126 QUEEN STREET,

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Patent Stitched-Steam Power Pressure Stretched-Oak Tanned



Hones 820 15th Nov. Montreal. ding the b Heeman & Heeman

The Best, therefore the Cheapest, Belt in the market. Replaces, when used, all others.

More Pliable and Durable, especially at the splices.

Stretches but little, always retains it original wid h. Superior for Cross or Double Belts.

Runs sraight and true, does not start at the laps. Single equals medium double.

25 per cent Stronger, 331 More Lasting, and 121 Heavier, than any other Leather Belt

BOARD OF TRADE RETURNS.

The following are the returns issued by the Board of Trade, for the month of Dec. 1885, and also for the 12 months ending Dec.,

1000, and and for the 12 months entit	ng Dec.,
1885:	
MONTH ENDED Slat DEC., 1885.	
Quantity.	
Timber (Heurn). Loads.	
Russia 6,346	12,857
Sweden and Norway 24,683	84,286
Germany 9,997	29,270
United States	22,958
British India 5,196	71,851
British North America	45,696
Other Countries 23,705	36,727
Total	253,178
Timber (Sawn or Split, Planed or Dressed).	
Russia 32,060	67,408
Sweden and Norway 44,948	101,549
British North America 66,510	151,5:7
Other Countries	58,799
Total160,719	
	369,303
Staves, (all sizes)	58,632
Mahogany (ton 2,283	19,020
Total of Hewn and Sawn 257,752	622,473
TWELVE MONTHS ENDED DEC. Slot, 18	e.
Timber (Hewn).	
Rumin	465,806
Sweden and Norway	758,826
Germany	693,247
United States	470,984
British India +2.528	676,724
British North America255,264	1,108,829
Other Ccuntries	557,760
Total	•
Timber (Sasen or Split.	4,032,115
Planed or Dressed).	
Rumia1,188,380	2,651,123
Sweden and Norway	3,602,247
British North America 996,374	2,487,629
Other Countries	996,602
Total	9,587,601
Staves (all sizes)124,374	688,971

SHILOH'S VITALIZER is what you nee or Constipation, Loss of appetite, Dissiness an all symptoms of Dyspepsia. Price 13 and 7 cents per bottle. For sale by Crmond & Walst druggists, Peterborough.

Total of Hewn and Sawn...... 6,164,979 14,219,776

486,199

Mahogany (tons) 53.889

THE LUMBER TRADE. QUEBEC, Jan. 27.-Information from the

woods is to the effect that unusual activity prevails this winter in the pine lumbering districts of the province. The decline in the square timber trade is likely to become permanent from present indications, and the export trade in deals and dimension timber will probably increase in direct ratio to the decrease of the other. It is reported that the immense stock of sawn lumber at the Gatineau Mills' piling ground, Chesles, has been disposed of for Spring delivery. The firm operating these mills, Messre, Gilmour & Co." are except ionally busy on the Gatineau River this winter and will probably drive over 200,000 log; next spring. The firm has lat ly acquired the limit so long held by Mr. Willis Russell of this city, and may berhaps cut some pine there this season. The Kapabourga limit, formerly the property of Mesars. Benson, Cennet & Co, has also been bought by the Mesars. Gilmour. Mr. J. Mac-Laren is also actively engaged on the Eagle, Ignace and Dosert rivers, doing most of his business through jobbers. Messrs. Hamilton Bros. are doing rather more than usual on the Gatineau, and expect to drive from 80,000 to 90,000 logs of the finest quality and the largest size. They are busy as usual on the tributaries of the Grand or Ottawa river. All of this firm's timber will be cut at the Hawkesbury mitls sixty miles below Ottawa on the Ontario side of the river, and for the future will be taken to the seaports for exporation by barge, this plan having been found to have many advantages over rafting, which involved several handlings of the lumber, as well as the scouring of each board by machinery. On the Black and Colcunge rivers. Messrs. Gillis and others are doing a large winter's w rk. The sale of the old Bronson business for \$600,000 circles, and some doubt is expressed as to whether the immense limits above the Boscatong on the Gatineau which cover 900 square miles of country, are included in the purchase. So far little is known of the intentions of the new firm, which includes Mr. Stewart, late of New Brunswick,

and now of London, England, Mr. Bronson,

and some others not so well known to the trade. The Messrs. Greer Bros., of Montreal, have also purchased limits on the Gatineau, and will probably work them before long.

Morsford's Acid Phosphate

Very Satisfactory in Prestration.
Dr. P. P. Glimartin, Detroit, Mich., says: "I have found it very satisfactory in its effects, notably in the prestration attendant upon alcoholism."

The discovery of the instantaneous process of taking photographs has been quickly followed in the medical world by a perfect and instantaneous remedy for all soute schee and pains, as Neuralgia, Tootbache, Rheumatism, etc. This valuable remedy is called Fluid Lightning, and is only at 15 cents a bottle by John McKee, druggist.



WELLAND CANAL.

NOTICE TO CONTRACTORS.

SEALED TENDERS, addressed to the under-igned of and endorsed "Tender for Lock Gate Timber," will be received at this office until the arrival of the Eastern and Western Mails, on TUESDAY, the 9th day of FEBRUARY next, for the furnishing and delivering, on or before the 22nd day of June next, 1886, of Oak and Pine Timber, sawn to the dimensions required for increasing the height of the Lock Gates on the We'land Canal.

The timber must be of the quality described and of the dimensions stated in a printed bill which will be supplied on application, personally or by letter, at this office, where forms of tender can also be obtained. No payment will be made on the timber until it has been delivered at the place required on the Canal, nor until it has been examined and approved by an officer detailed to that service.

Contractors are requested to bear in mind that an accepted bank cheque for the sum of Seed must accompany each tender, which shall be forfeited if the party tendering declines to enter into a contract for supplying the timber at the rates and on the terms stated in the offer submitted.

The cheque thus seed in will be returned to the respective partic swhoes tenders are not accepted.

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

By order.

A. P. BRADLEY,
Secretary.

A. P. BRADLEY, Department of Railways and Cazale, } OMawa, 32nd January, 1886.

BAKING POWDER

The Peoples' Favorite.

Health is Wealth



A GIFT send 10 cents postare, will mail you free a royal able, sample box of good will put you in the way of some rorrer order at once, than anything else in all the time. Capital not restend to the rest of all area can live at home and we spare time, or all the time. Capital not rest with what your least y



CYLINDER LUBRICATION.

In former years it was the universal contons to lubricate the valves and evlinder of a steam engine with talk ov means of the old-fashionel cup with which every one is familiar. While tallow in either the crude or prepared state made a good lubricant for many kinds of work and machinery, it was very bad for steam valves or cylinders, not because it was a poor lubricant, for on the contrary it was as good as could be found in those days for the purpose; but the objection to it was the large percentage of soid it contained. Unloss great care and frequent cleaning of parts were observed they were ob served they were liable to severe corresion; the valve seats and cylinder would become so torroded or caten into by the deposits of acids that they have to be re-bored and re fitted; pis ton rods became spoiled and had to be replaced; piston springs deteriorated, and piston bolts would almost break in pieces at the slightest pressure of the wrench. Constant renairs on engines having duty to perform were the order of the day, incurring heavy expense and tedious delays. To overcome these serious objections and substitute a lubricant that would be as good for the intermediate steam chambers of the engine and obviate the objections to tallow was a problem the solving of which engaged the minds and attentions of chemists, oil manufacturers, engineers and mechanics alike.

The results of their efforts brought forth cylinder oils of various brands for the sole purpose of lubricating the internal parts of the engine containing steam. They also incidently brought forth numberless sight feed oil cups of several qualities. These oil cups were a thing of beauty and joy ferever. The engineer could take out his Waterbury watch and time the drops of oil to suit the duty of the engine, and the proprietor could figure to a nicety how much oil perday was used, and easily got at the cost per year. He did not have to run to the butcher's overy once in a while, only to find that some old lady had bought the last lot of tallow; he found when he first started the sight feed cup that the oil men sent enough sample caus gratus to keep hun in oil several months. The valve scate, cylinder springs, etc., would invariably present a smooth, even appearance upon examination and everything was levely for a time. The problem of lubricating the steam engine was solved and consequently every one was happy. After a thort time some observing engineers who utilized all their returns from steam heating coils and other sources. discovered that their boilers were not so clean as they had been previous to the use of oil. Caroful investigation proved the fact that the cylinder oil returned through the heater with the water. This was all right if it either made steam or was otherwise harmless, but such was not the case. The deposits of oil gradually increased to an alarming quantity and proved detrimental to the boiler.

It did not seem to form a very hard scale, in fact, it was of a soft, mushy consistency. This it seemdeposed to have a great affinity for the ends of the flues, especially the back end. keeping the heat and water apart and causing the flues to leak and gradually harden. I have just seem a large tubular boiler that was built by a first class concern whose name is a guaranteo of its quality, which was placed three years ago in charge of a good, careful engineer. That boller is now receiving a new sot of tubes. The ends next the back head were leaking and were so hard that when struck by a chisel it would fly like glass. I might add that the sediment around the tubes was considerably harder than anywhere else. The reason is obvious. The heater, which was of the plain tank style, was in about the same condition, and is being replaced by a new one of a kind that is guaranteed not only to heat but to deposit the sediment in the bottom and thence carry it out through the everflow. The total expense will not be less than five hundred dollars, a very large item to pay for this kind of experience. In connection with all this, a different brand of oylinder oil will be used, and if beneficial results follow it will be hard to determine whether they are caused by the change in heater or oil. A smiler case occurred not long since at a known besters that was intended to purify as creased within the last twelve months, there is has been shipped to Europe via New Orleans time.

well as heat the return, etc. After four years run new flues had to be put in and a large, new heater with all necessary connections was introduced, causing an outlay of at least twelve hundred dollars, all on account of the cylinder oil.

In another factory having a thirty-horse boiler, where at least two thirds the supply used is rain water the boiler is washed out very carefully every two weeks, and about two quarts of crude petroleum placed therein, and so far. (ono year's service), no trouble has occured, the scale of film found on cleaning the boiler being very thin and light. In another CHO where a certain brand of oil sans deed. was found that the piston moved hard, and the more oil it received the worse it became. Upon taking the cylinder head off, the cylinder was found to be coated with small, greasy, sticky pellets, from the size of a pin head upwards, The steam ports were clogged up with this interesting stuff that resembled greasy clay, After carefully wining out, a different brand of oil was introduced that very quickly cleaned out the ports and loosened out the piston rings until they ruttled about. This certainly show of a considerable difference in the two brands of oil. One would lubricate, and did not form the sticky pellets, and would allow the engine to work under much less pressure, while the other produced the opposite effect. As to the effect of the otherwise good oil on the boiler, I have not yet learned, but I presume it is much better,

Those few incidents that have come under my recent observation have demonstrated the fact that either there are very good and very bad oils for cylinder lubrication, c. that all of them have some foreign stuff used in their manufacture for clarifying, or that they have some radical defect that leaves us no better off than with the old oil and tallow cups. I and strongly inclined to the first theory, from the fact that I know of factories where a certain brand of oil was used constantly for a number of years, having the same kind of plant throughout, and using the same water from the city service, that upon repeated careful internal examination showed no deleterious effects. In view of all these facts, it is economy to buy any cylinder oil because its first cost is low? On the contrary, it is a strong illustration of the good old adage, "the best is the changest." No man running a steam plant can afford to use an inferior grade of cylinder oil, even if he gets it for nothing. He would have to receive a present of a great may barrels of the stuff to compensate for the expense of overhauling the whole plant overy three years, to say nothing of the delay, loss of business, etc. Oil manufactuters may not like this kind of talk, but if it hits any of them hard I would suggest that the remedy of the difficulty is in their own hands. There is no doubt that there is a few leading brands that will stand the test and perform good service, but it is equally patent that a large number of brands are worthless for their inten ded purpose, and positively harmful and dangerous. No one about to purchase any oil for the purpose, having a heater taking the returns to the boiler, should order until satisfactory ovidence has been given that it will not dement scale in the boiler, and perhaps it would not be amiss to demand a clean cylinder and other parts of the engine as a result of using said oil. -M. E. Chanic, in Lumber World.

WOOD AND METAL RAILWAY SLEEPERS.

Differences of opinion exist among engineers as to the relative value of wood and iron rail way sleepers. The common belief seems to be that both possess qualities that deserve consideration, and that while wood may advisedly be used in some localities, iron is better suited to others. It is mainly, however, a question of economy, and the cost of transithas to be taken into account in association with the price on the market and the relative durability of wood and iron. It is beyond doubt true that a partial feeling has recontly found expression in favor of iron or steel in England, while in Ger-A smiler case occurred not long since at a many, where timber is scarce, and the duty large factory having one of the leading well upon wood imported from abroad has been in-

probably good grounds for believing that metal deepers, notwithstanding the fact they are said to cause a vibration in the carriages highly annoying to passengers, may come into very general use. On this important point the Manchester Quardian recently published some highly interesting particulars gathered from a recent report presented by Herr Bucck, the General Secretary of the German Ironmasters' Association, to the members of that body. Thu experienced engineer observes that he regrets to find that, according to certain appearances, wooden sleepers appear again to be coming into favor in Germany, because the several governments seem desirous of favoring forestry. Centrary to the recommendations of prominent ongineers, beechwood sleepers have been laid down recently. Here Buck adversely criticises the disposition on the part of the Government to bestow special encouragement upon forestry in this way. The duties on timber imposed in 1879 have been raised this year, although the native growth is not sufficient to supply the requirements of Germany. According to a petition presented by the timber growers and merchantz to the Reichstag on the occasion of the discussion on the timber duties, it appears that 2,000,000 sleepers were laid to the eastern part of the empire last year, and that of this quantity one-third were metal sleepers. The German forests could only supply 15,000 oak sleepers Of the quantities submitted for tender during 1881-5, in the same part of the empire, German producers were only able to supply one 1,500 of oak, and 501 per cent. of pine. Should beechwood sleepers prove satisfactory, a sufficient supply may be obtained in the western part of the empire. But experiments with sleeners of this wood in France have not given satisfactory results. In favoring the employment of wooden sleepers, therefore, with a view to the oucouragement of German forestry, the German Government are simply promoting foreign timber-growing 'ndustry rather than the native metallurgical industry."

It may be taken for granted that so far as England is concerned selection will be determined upon principles of economy. If it can be shown upon incontrovertible evidence that iron or steel sleepers are cheaper in the long run than wood, they will assuredly come into general use. On the other hand, should the contrary be established, timber will remain in vogue. Competition between the two interests involved will have a tendency to reduce the price of both wood and metal, and, so far, rivalry will be attended with advantage to the community. They must, however, stand on their merits, and any attempt to foster a trade by protective measures will fail. It is proverb ial that there is neither favouritism or friendship in business. Now that the relative quailities of wood and metal are in course of being tested we believe that it will be found that the conditions under which timber sleepers can be obtained in England are of a nature to justify the expectation that they will still remain in use. - Timber.

OAK STAVES FOR EXPORT.

The manufacture of oak staves for export is quite an important industry, and there is a considerable amount of capital employed in it. Formerly nearly the whole of the staves for exportation to Europe were obtained from Canada and shipped via New York, but within the last ten years, in consequence of the exhaustion of the oak timber in that country, the trade has drifted southward, and it may be said now to exclusively a southern industry, as for several years past three parts of the whole quantity of stayes exported have been obtained from the States of Arkansas, Tennessco and Mississippi.

Large quantities of staves were obtained on the Cumberland and Tennessee rivers, but there is now no stave timber on those streams. The larger portion of the staves shipped in the last two or three years has been obtained from Arkansas and Mississippi swamps.

The new railroad running from Memphis through Arkansas to Kansas City, and from Memphis to Vicksburg and New Orleans, opens up a considerable timber country, and within the last two years a large quantity of staves over these roads. New Orleans is the principal market and shipping point for these staves, while Memphis is the centre of the manufacturing interest.

Large lots of staves are shipped as what is called "dunnage" in the steamers and other ships carrying cotton from New Orleans to Europe. By "dunnage" is meant the portion of the cargo which is heavy and will work with a light, such as cotton or, in other words, acts an a ballast.

The second secon

The staves for export are made of white oak or timber of the white oak family, such as cow, burr, overcup oak, etc. The timber mut be exceptionally good and large, at least 30 inches in diameter, long bodied and free from knots, crooks, wind shakes and shivers, and worm

The stave should be riven with the grain of the wood, setting the frow to run from the bark towards the heart, and splitting the stave to as near an equal thickness on both edges as poss. ible. In sapping great care must be taken to strike the axe in at the end of the stave, and naver in the middle, which is a very objectionable defect. A merchantable stave should be of nearly uniform thickness .- Southern Lum. berman.

BOXWOOD.

The boxwood boom seems to have spent it force, and the market has dropped in the year from \$10 to \$17 a ton, which is just \$3 below the low point it started from. This change comes from the loss of interest in skating rinks. and the consequent abandonment of roller-skate manufacture by some of the largest concerns, notably one in Newark, N. J., that made in 1884 160,000, and one in New York that up to last July had a two-year's business of 350,000 skates. The dissolution of the skating rink syndicate, that for e years has built rinks all over the country, surted them and then sold them to local enthusiasts has divided \$400,00) on its last years business, and has been the medium for sale of over 3,000,000 roller skates. The decline of this business is suggested by the fact that where Nosfolk County, Mass., had 15 rinks running last winter, it now has but five. New York's number has been reduced from 23 to eight, and Philadelphia from 13 to six, and those remaining are not liberally patronized. The abandonment of skating rinks has had some influence also over lumber, and is possibly to be in a large degree accountable for the apathy in prices, and their decline is nearly 30 per cent. since December 1884, while birch, which came into favor for rink floors in the summer of 1883, and jumped to \$55 a thousand for kiln dried choice stock, is back, like boxwood, to a lower point than whence it started. -Miss Val. Lumberman.

CRANKY MACHINES.

There are times when nearly all machines get cranky. The trouble is often a simple one, and is not infrequently owing to the machinist not knowing his business. But that is not always the case. The very best mechanic in the world gets hold of a nut that is difficult to crack. A machine, no matter of what kind, may work perfectly for months, and then one day zomething goes wrong with it. The machinist looks at it, examines it, and perhaps he oven takes it to pieces and puts it up again, but all of no avail; the machine remains like a balky horse. which nothing will make go. At last the machinist gets tired and goes home, sick of pottering with the troublesome thing. He comes to work the next day, perhaps having forgotten the provious trouble, touches a handle here and a wheel there, drops a little oil in a half dozen places, turns on the steam, and off she goes without a murmur as if nothing had ever happened. It cannot be explained by any one. The only conclusion to be drawn is that he omitted, on the occasion of the stoppage, those little necessary touches of handles, turning of wheels and droppings of oil.- Word and

To Clean Brass and Steel.

For brass: powder rottenstone, put it into a pint of water, add a teaspoonful of sulphuric acid, apply, then rub off and polish with whiting. For steel: emery powder mixed with turpen-

CARELESSNESS IN THE BOILBR-ROOM.

'Familiarity breeds contempt," is an old saying, says the Locomotor, and it is unfortunately true that it holds good in the boiler room. In this case it would be wise to add to the old say, "and contempt breeds trouble," for many accidents may be traced to the carelessness in management of boilers which naturally follows long connection with them Especially is this apt to be the case when the may has been so fortunate in his management of a boiler plant for a long time as to have had no serious trouble with it

It is customary with some mechanics to test new boilers, or old ones which have undergone repairs, by simply subjecting them to a high steam pressure. Why any intelligent person should do thus simply passes our comprehension if a boiler is known to be strong enough to sustain a certain pressure, there is no earthly reason to subject it to that pressure. If it is not absolutely cert in that it will sustain any given pressure, them it is the height of felly, and it incurs a risk that no man can afford to take, to apply that pressure in such a manner that, in the event of the boiler not proving strong enough to sustain it, an explosion will mexitably occur.

During the past year we have a record of at least three explosions, all attended by loss of life and great destruction of property, from this cause. The danger in such cases is usually greatly increased by caulking the seams, rivetheads, etc., where leaks exist while the beiler is under pressure.

Another dangerous practice is the caulking of joints in steam pipes while pressure is on. If pipes or fittings are corrolled, as they very frequently are in such cases, there is danger that the chisel or caulking tool may be driven through the pipe. In such a case the sudden escape of steam is more than hable to seriously scald the workman. Quite recently, in a neigh boring city, a workman vas so seriously scald ed in this manner that he died from his injuries The practice is a very dangerous one, and should never be allowed. Of a similar nature to the stove, and one which should be as strongly dis countenanced, is the practice of screwing up man hole, hand hole, and similar plates while boilers are under steam, to stop leakage. A great many accidents have been caused in this manner. A few years ago a battery of three horizontal tubular boilers were fired up, and on raising steam the joint of one of the man hole plates was found to leak quite badly. Instead of letting down the steam and repacking the joint, a wrench was applied, and the attempt was made to stop the leak by screwing up on the bolt. This proving insufficient, a long rece of pipe was slipped over the handle of the wrench, and more force applied. The immediate result was the fracture of the man-hole frame. the explosion of the boiler, the destruction of about \$10,000 worth of preperty, and the loss

Only a few months ago a similar accident occurred in a large city in one of the Middle States, but in this case the boiler was of the sectional type. A cap covering the end of one of the water tubes began to leak, and two men, armed with a 24-inch monkey-wrench, attempted to stop the leak by screwing up the nut on a f-inch bolt, with 100 pounds of steam on the boiler. Result: one man killed, and two others badly scalded.

Several bad accidents have also happened through the carelessness of men who have tried to take off man-hole and similar plates while boilers were under the steam. This may appear incredible, but it is nevertheless true. Only a short time ago one of our inspectors, while making quarterly visits in a neighboring city, entered a boiler-room, and found a man trying to remove a man-hole plate with 20 pounds of steam on the boiler. He had removed the nut from the bolt, and was trying to drop the plate (in this case the beiler was provided with an internal man-hole frame) into the boiler. He had just begun the job, and the plate, owing to the great pressure on it, had fortunately so fir resisted his efforts to dislodge it. It may be him it was, too,

A few months ago a very bad accident occurred in a rubber works, where two men attempt ex to remove the head from a vulcanizer before shutting off steam. These vessels consist of a cylindrical shell, and the goods to be vulcanized are put in at one end, and the opening closed by a circular plate or door, which is belted to a flange on the end of the cylinder. After the men had removed some of the bolts, the st am pressure proved to be too great for the remaining bolts to withstand, and the head was blown out with great force, billing them instantly, and damaging the building and machinery to a considerable extent.

This list of accidents might be continued almost indefinitely, but we think we have said enough to call the attention of those interested to the fact that too much care cannot be extricted in the management of steam apparatus of all kinds. Eternal vigilance is the price of safety, and it is much easier and more practical to avoid accidents by the constant exercise of the greatest care than it is to design the frequency when an explosion occurs.

THE LOGGING OUTLOOK.

In last week's issue of the Gazette we noted the apprehensions felt by the lumbermen on secount of the soft weather regarding the getting in of a stock of logs sufficient for next summers cutting A good deal of delay had been caused and estimators were discounting the stock 10 to 25 per cent off what is required, but a change has come over the spirit of their dreams. Freezing weather has been wafted from the boreal regions, and where snow has not fallen the freeze up has rendered the sprinklers available. There is no trouble about slipping in the logs now. Wisconsin is well supplied with snow-too well supplied, in fact, and in some portions of Minnesota and Michigan there .. enough to help very materially in the logging operations. Hay will be made while the sun shines (or doesn't shine) and logs will be rushed to the streams until the skidways are baro. By that time another thaw may occur. We are not quite ready yet to decide that this will not be an open winter. But one thing we are convinced of - and that is, the log crop will not be so much as 25 per cent. sho t of actual requirements. But there is time yet for an enforced curtailment. This polar wave may pass away and mild weather previal in We shall 'now more about it February.

Of operations in the Northwest the Lacrese Republican says:—

At a meeting of the Menomines River Boom Company, held at Marmette last week, at which were present Senator Sawyer, Jesse Spaulding, of Chicago, Congressman Stephenson and others, the members of the company did not appear to be at all alarmed as to the outcome. They will have with this year's cut and what was left over from last year, sufficient stock to keep them running all next season There are this season about 5,000 men at work on the Menominee and its tributaries. This year's cut was estimated at 372,000,000 feet, but it will fall below that amount. At the close of last season there was 70,000,000 feet on hand. which, together with the cut this winter will give about 400,000,000 feet for use next summer. The cut on the Peshtigo will amount to about

In the Eau Claire region the anxiety of lumbermen was relieved by the heavy full of snow which was general over the entire Northwest. The weather has proven so disastrous that it was thought several contractors would have to throw up their contracts owing to financial embarassments, but if favorable weather now sets in they will probably come out all right. The cut will be from 20 to 25 per cent, then at the estimate, which in round figures is 135,000,000 in the Chippewa district, making the total cut in that district, under the most favorable circumstances, between 450 000,000 and 500,000,000. There will be at the end of this week, between 3,000 and 3,500 men at work in the woods.

resisted his efforts to dislodge it. It may be Black River Falls lumbermen predict a short inferred that he had a pretty loud call to "get out in their region, even under the most favordown of that boiler," and very fortunate for able circumstances, and a consequent rise in him it was, too.

[Prices next spring.—Lumberman's Gazette,]



T. McAVITY & SONS,

ST. JOHN, N.B.

Rock Maple, 5 to 6 feet

in length, bored specially

to suit the pick. Prines

MANUFACTURED BY

on application.



MONTREAL, QUE.

GET YOUR STATIONERY SUPPLIES

THE "REVIEW" STATIONERY STORE

MARKET BLOOK, GEORGE STREET.

Noted for BEST QUALITY GOODS at LOW PRICES!

PAPER, ENVELOPES, PENS, INK and PENCILS,

And every house and office requisite aiways kept in stock, and sold retail in BOTH SMALL OR LARGE QUANTITIES.

ATA LIBERAL DIECOUNT will be allowed to Bankers, Lumbermon, Manufacturers, Clergymen, School Teachers. Towns hip Officers and others buying their Stationery in large quantities, and also to such buyers. ATE-time besylven and contracts made for pearly supplies at lowest sates.

Market Reports.

TORONTO.

From Our Own Correspondent

JAN. 25.-Business is now extremely quiet. and will remain so while the present severe weather continues, it will take some days in fact before the railroad companies will be able to do much shunting in the yards owing to the block of snow caused by the last storm. The want will not be soverely felt by dealers, as there is but little demand at the yards. The bulk of the lumber now selling is for factory use, 13 cut up and better being in fair demand and the supply limited. The bulk of that now selling is far from dry, so that the dry houses will be fully occupied until the new cut comes

Bill stuff is tending upward. All short stuff will now bring from 50 cents to \$1.00 per M more than for the past twelve months. The apleapid aleighing now enjoyed by the mill men will no doubt tend to check any further advance bowever, as there will be great exertions made to wecure a full stock of logs and their efforts hid fair to be crowned with success.

The railroad companies have again started their usual winter campaign of weighing car loads of lumber, and, as it is usual in such eases, the lower priced lumber has to take the brant. Hemlock seldom escapes the weigh master, and in some cases it becomes a question with the consignor or consignee, as the case may be, as to the advisability of taking delivery from the company, as the amount claimed for freight foots close up to the value of the lumber. Full satisfaction between shippers and the railroad companies will nover be arrived at until a lower tariff is made on such heavy and low-priced wood as hemlock. Wood dealers are granted special rates on inferior grades of wood for brick yard purposes, and why not grant the same to dealers in sawed hemlock, large quantities of which await manufacture if it can only be made and shipped at a profit. But at the present time with prices at \$2.00 per M below live bill stuff, it cannot be shipped if passed over weigh scales at 9 cents per hundred weight

There is no change in prices at the yards as yet, although it is quite clear dealers cannot afford to pay present figures and sell as formerly. The consequence is they will not carry more stock than absolutely necessary until it is

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AWATIO

From Our Own Correspondent.

Jan. 25 .- Reports from different quarters of the upper Ottawa give a most glowing description of the work being done in the woods. The recent thaw which was followed by a sharp frost and a snowfall made made in the bush just all that the lumbermen could reasonably require, and as a consequence the drawing is well forwarded. The ice on come of the great lakes to the north, however, is said to be anything but good, and the greatest precautions have to

be observed by those whose duty it is to forward supplies. Some time ago 15 teams were drowned on Kiffewa Lake while thus engaged. However, it may be said that causalities are very rare, in fact, considering the immense force of men engaged in the lumbering industry, this is a phenomenal year in that respect. Your correspondent had a conversation with one of the largest lumber merchants on the upper Ottaws a few days ago, and his remarks on the prospects of the trade for the coming season all pointed to a prosperous year. This goutleman expects to get to market three rafts of white pine out on Black River alone, and at least one hundred thousand logs. He says that in his long experience he never saw a more favorable year for work in the woods, and from the preeent depth of snow in the Black river country he anticipates a good flow of water in the apring In fact the same may be said of all the other steams in this district. The thaw which occured about New Years changed all the snow then on the ground into ice, making it a kind of reserve. The matter of water for getting logs out f the various streams on which they are deposited, is, as everyone acquainted with the business knows, of the first importance, and the cheerful prospects in this respect are most encouraging. Mr. E. B Eddy, one of the lumber kings of the Chaudiere, starts in a few days for an extended trip to Europe, and from thence to South America. It is known that Mr. Eddy undertakes the long journey more for business than pleasure, and hopes to be able to make arrangements whereby he can ship direct to the different markets in Europe and South America without any interference of the middleman. His trip will, it is expected, last over four months. Stocks at the Chaudiere yards may be said to be froze up for the winter, as there is nothing outside the local demands and that itself is but triffing.

ORIGAGO.

AT THE YARDS.

The Northwestern Lumberman of January 22nd says:-If orders for shipment had been plenty during the past week, but little could have been done on account of the continued stormy weather, with considerable snow Tuesday and Wednesday, making it difficult to load cars. But orders were few, so that the yard men were content to remain in their offices. The monotony of the current time is, however, being somewhat relieved by the inquiry that is awakening. Within the past week the general lumber trade has shown that it still lives and intends to do business for the year to come There are few yards that have not been called upon to make estimates on bills during the past week, and some of them have been heavy. As yet buyers appear to be in no haste about placing their orders, and it is quite likely that the majority of inquiries are merely to feel the market. Yet the season for atocking up in the southern part of the prairie states is near, and, judging from past years, lumber must begin to move in considerable volume during the next two or three weeks. It is generally conceded, likewise, that stocks in retail yards are unurua'ly low, which will necessitate early buying. Under the circumstances, there should be a fair movement of lumber by the middle of February, and undoubtedly there will be unless frequent snowstorms and very cold weather prevent.

When the demand for car strips is taken into consideration, January trade this year will exceed that of last. Buyers are still picking up all the clear white pine short flooring and Norway strips for car siding and decking they can find. In some instances cutting long strips to the required length has been resorted to. There appears to be no limit to this domand, nor will there be until all the available dry stock has been absorbed. Inquiry as to prices paid for such stuff is generally answered by a shrug, or wasive language, though it is insisted that it is bringing higher prices than a short time ago. In fact, there was no market for Norway strips last summer and early fall. Since all the car shops are busy, and some of them refusing orders unless at an advance in values, it can be safely assumed that car stuff will continue to sell and at stiff prices.

The late reduction of five cents a hundred on eastern freight rates has slightly stimulated

shipments in that direction. Dealers say that the reduction is too meagra to be of much benefit unless it leads to cuts and soft rates all around. Inquiries from various eastern points are coming in, and there is some shipping of small lots. The desultory trade that sets in to the eastward and southward in the winter time is for specialties, covers a wide range of territory and demand, and amounts to a considerable aggregate. Orders are received from Maine to Florida, and the dealer here seldom fail to respond with what is wanted. The demand in Pennsylvania, the two Virginias and Maryland, can be called heavy at certain seasons of the year, and is underestimated by the majority when considering the Chicago vard trade. One of the Twenty-second street houses lately filled an order for Portland, Me., and one for Cedar Keys, Fla. In the Portland bill was white pine piece stuff and cull fencing; the Florida order called for oak lumber. The reason why there is this widespread call on Chicago stocks is because it is known everywhere that an order sent here will be promptly filled. A man wanting a car load of specials finds it more convenient to order from a point where he knows the order will be attended to at once and filled than to try a near-by place, perhaps, at which he is estisfied that but a part of his bill can be made up, and probably with unsatisfactory lumber at that. While it is concoded by many dealers that the trade of this city may hereafter be reduced in volume by reason of a decline in the white rine supply and the competition of northern dustricts, it is claimed, and with reason, that this will remain a great market for well assorted and fine lumber as long as the accessible forests yield up their wealth of raw material. The position with reference to lake and rail transportation insures such a continuance.

The talk about prices is still strong. There is no reason why dry piece stuff, fencing, 12inch boards, and good atrips should sell for anything but firm prices. Values for the next 60 days will be more or less effected by the weather conditions, but dealers should not get 'rattled" because of dull trade during the winter. If the winter is unfavorable to shipments, and there is consequent delay about putting in spring stocks, it will only result in a greater rush later on, which would be favorable to stiff prices. Time flies fast, and a little patience, with a firm hold on values, will bring the trade through the winter in fine form But an attempt to force business out of season, and against adverse weather conditions, can only result in a weakening of values.

There is something of a breeze among the sash, door, and blind manufacturers about a shortness in the supply of thick lumber that enters their operations. It is said that the supply at Oskosh is meagre, and that buyers in Wisconsin are active in picking up lots at mill points throughout the state. This feature of demand may have some significance to the holders of thick lumber in the yards of this

Receipts of lumber and shingles, for the week ending Jan. 21st as reported from the Lumberman's Exchange:-RECEIPTS.
Lumber. Shingles

188 5	1,653,000	459,000
FROM JANUARY SAN, I, TO	94N. 21, 1NC	LUBITE.
	RECEIPTS.	
	Lumber.	Shingles.
1855	9,548,000 5, v 93,000	7,292,000 2,240,000
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Troy . iunalo and Pittaburgh.	250
Buspension Bridge	15c

Balamanca Black Rock	
Dunkirk	15c.
Toronto	

OSWEGO, N.Y.

From Our Own Correspondent No change in quotations. The demand has

improved some for past weeks; country yards are having to keep up an assortment. We do not look for a brisk trade during the winter.

BUFFALO.

	we quote cargo lota:—			
1	Uppers. Common Culls.	845	00@18	00
ı	Common	17	00018	50
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TONAWANDA.

CARGO LOTS-MICHIGAN INSPECTION.

Three uppers	\$12	00/244	Off
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ALBANY.

LONDON.

The Timber of Jan 16th says :- Flooring holds the chief place in the import list for the past week, although the arrivals altogether are within narrow compass and the reverse of im portant. In the Quebec sheds will be piled the two Fredrikstadt cargoes per Biscaya and Franz, the former of which contains some raleable lines of good quality yellow flooring of Pottersen's ahipment. The Millwall docks receive several consignments of yellow and white flooring by the Gothenburg and Chris tiania liners to the extent of about 50 000 pieces The St. Hilda just discharged in the Russian yard, brings a miscellaneous cargo of Hhlm stadt deals and battens of the HB brand wale, to complete the list, a Drontheim carge (the Victoria) of 260 standards destined for the Centre yard reports for Mesers Bryants' Lim. ited. The importation, although not heavy, is about an average for this period of the year, but we hear that several cargoes of flooring;

from Fredrikstadt and elsowhere, may be shortly expected to supplement our present stock in the quarters where it is weakest.

The almost impassable state of the roads, consequent upon the recent heavy fall of snow and the succeeding frosts, has seriously affected the returns made by the Surrey Commercial Dock Co. of the deliveries for last week, as the following comparative statement clearly shows

1886. 1885. 1884. Deals, etc. (stds) 1,409 Flooring " . . . 246 3,383 2.549 498 1,500 Timber (loads)...... 605

Mesars. Churchill & Sim's three days' auction Fach day has has been the event of the week. gathered a large assemblage of buyers, all of whom were evidently deeply interested in watching the result of this "trial" auction. The room, although seldom crowded, was always full, and seats near the front were not easy to get at any time during the course of the sale. The catalogue itself, comprising several lots of almost every description of deals and flooring, was peculiarly suited to test the range of values likely to hold during the spring, at least, of 1886.

So far as an improvement in prices is concerned, those who hoped for better things, it seems. have had to bear another disappointment. To look at this week's catalogue, and then back to those dealt with at the end of November, euables us to arrive at no other conclusion than that the market has been virtually unaffected by the entorced repose which everyone thought would be of such benefit to it. In the prices now under consideration we discover the least possible variation from the figures current in November: indeed, we may forget the break there has been in the auctions, and continue to trace the tendencies then observable as though we were taking up the thread of the discourse at only a week's, instead of a month's, interval. Battens and common deals are as weak as they ever were, while flooring in third quality shows a tendency to improvement that is not shared by seconds. There is, however, this gratifying feature about the figures made for best quality goods of all sorts, that a fairly good standard was uniformly made, as there were plenty of buyers for all that was offered. Flooring, as a general rule, commanded the best results.

The most important lines in the auction were the various Petersburg stocks, of which the bulk were battens. Archangel found fair favor Next in importance to the Petersburgs, come the shipments from the Finnish ports, which again comprise a long string of batten sizes. These may be dismissed with the remark that 7 in. and 8 in. fluctuated between £6, £6 5s., and Mi 10s., with other sizes in proportion.

Variety is essentially the crowning feature of the Swedish stocks, and in the prices realized we have grounds partly for satisfaction and partly for regret, although unfortunately the jatter is likely to be the predominating feeling. Fifth deals were apparently in sufficient request to save the price falling below £6 15s., at which a variety of marks found ready buyers. This, in itself, may not be much to say, but it is so far satisfactory in that, as will be remembered. not a few lots of this description were sold as low as £6 5s, in the December autions.

Spruce, pine and red pine we offered in larger quantities than usual, and with satisfactory results. Third Saguenay apruce, 3x9 in. 12 feets, at £6 15s., 11 feets at £6 10s and enris at 26 5s, show a much better result than do most of the Baltic white deals with which, to a great extent, it comes into competition. Third regular pine planks, Saguenay, at £315s., reads much like the autumn price; only we should have thought the present partial scarcity would have tempted buyers to pay a little more now that the supplies are closed against them for some time to come. The red pine deals submitted were chiefly in the lower qualities, and for them £6 10s was a fair value. We have soon many better parcels also than the Quebec firsts, of which the plank made £11 15a. The pitch pine deals, ex Telefoi, fetched some wretched prices, although the circumstance that they were a stowage lot and of very undesirable specification is accountable for a good deal.

A good result attended the sale of Oddessa oak boards, and also of the Fredrikstadt slating battens, in both cases a fair advance N. Y.

being established on last prices. Quebec birch, 16 inch to 18 inch, made 67s 6d, which seems to show that notwithstanding the recent heavy import, buyers are not deterred from paying a good price for fair quality wood.

Flooring, as we have remarked, has the reputation of being the best sold The freshly im ported cargo per Pickwick excited a keen competition, which is attributed as well to its fine condition as to the suitability of the dimensions to the requirements of the market at the present The few 2rds that were offered realized prices which confirm us in believing that this quality is to enjoy a slight temporary scarcity, accompanied by a good demand. One of the best pieces of the day was that made for the 3x7 inch 3rd yellow ox Pickwick, and although 7s for this lot may mayor of a lucky chance, it shows at least an auxiety to possess the lot on the part of many buyers present. Third \$x7 inch yellow matching-that old offender-war stimulated in one instance to an advance of Gi per square, after which f inch matching was quick to follow suit. Narrow matching, in some cases, improved slightly, but we do not lay much stress on this fact. Inch white went exceedingly well, 1sts making 8s 9d and 2nds 7s 9d, the latter figure being also secured by a lot of DDD. Almost all 1st yellow flooring and matching commanded good figures, and this not only in 7 inch but as well in 6 inch and 51 inch, which is more unusual. For the 1st ax7 inch and 3x7 inch, t g.b , ex Pickwick 8s was made, while the 12 inch scored 13e 3d, and the 1 inch 10s 3d. In Inch-2nds, although 7 inch and 6h fof which there were some good lines in the Pickwick) fell flat at 8s and 3d, there is ample cause for satisfaction that 1x6 inch AHA should secure 8s 3d. A precisely similar remark obtains in the case of the a inch 2nd yellow, Ge 9d for 6 inch and 6s 6d for 5h inch being much more inspiriting than 7s and 7s 3d for 7 inch. In white 3 inch, although there are only a tew lots to judge by, prices are also firm when let Christiania 63 inch can make 7s and 2nd 6 inch as much as 63 3d and 5s 6d. The last named is an excellent price, and falls also the cargo ex Pickwick. From the various odd lots of flooring submitted we select the 1x7 inch EA & Co. 3rd Dram, from Gs 6d as evidence of the improvement in 3rd quality, and the JD & Co 2x6 inch yellow flooring at 7e, with the fx7 inch white matching at 5z 9d, as instances of really good prices. The Kjorbreck 14x64 inch yellow also shows a considerable advance on the last price made.

WINNIPEG.

The Commercial says :- There is no improvement to note in this branch. Trade still holds in about the same inactive state as during the previous week, and no immediate improvement is considered likely for at least a few weeks to come, or anything like activity until a near approach to the time when building operations can again be resumed.

WOOD-WORKING PATENTS.

The following list of patents relating to the wood-working interests, granted by the United States Patent Office, January 12th, 1886, is specially reported by Franklyn H. Hough. solicitor of American and Foreign patents, 925 F. Street, N. W., Washingston, D. C.

331,330-Log turner-H. T. Basim, Decatur ville. Ohio.

354,324 - Plane-J. Woods, Columbia, Tenn. 334,175 - Saw guide, band - W. Kratzer, Allentown, Pa.

334,285-Saw mill feed mechanism-T. J. Reamy, Nashville, Tenn.

\$34,284-Saw mill head block-T. J. Reamy, Nashville, Tenn.

334,241-Saw tooth, insertible-A. Krieter, Columbus, Ohio,

334,303-Saw tooth, insertible-J. S. Swank & W. Dages, Big Tres, Cal. 334,297- Sawing machine-D. W. Smith,

Long Lake, Mich. 334,141-Sawing machine, circular-J. F. Welsh, Brooklyn, N. Y.

PATENTS ISSUED JAN. 19

334,538-Lathe-W. J. Muncaster, Cumberland, Maryland.

334 567-Saw-G. N. Clemson, Middletown,

334,664 -Saw mill feed carriage - G. M. MANAGEMENT OF BOILER FIRES. Hinkley, Milwaukee, Wis.

334,730- Saws, machine for jointing and dressing circular-C. Scoch, Truckee, Cal.

334,663-Sawing machine-G M. Hinkley, Milwaukee, Wis.

334,674-Sawing machine-S. P. Dress Pleasant Mount, Mo.

PATENTL ISSUED JAN. 26.

334,893 - Chuck, fathe-E. Pement Esmond. Dakota. 331 997 -Edger, gang-S. S. Vall & J. Solli

day. St. Louis, Mo. 335,090 - Hoop pole sawing machine -1'.

Powell, Williamsport, Pa 335 000-Hoop splitting machine H. Weit zel. Ithaca, Wis.

334 940-Lumber drier-ti. H. Derby, Somer rillo, Mass.

334,943 - Plane-A. Doll, Lena, Ill.

334 818-Saw guide, band S. Stephens & D B. Handson, Indianapolis, Ind.

331 785-Saw until band II Bennama, South Evanston, Ill.

334,515-Saw mill dog-J. B. Davis, Munroe ville, Ind.

THE Saginaw Courser sente mot a prominent lumberman of Ohio in that city last week and asked of the outlook for the lumber business, d was told that a rather better trade than was had last year was expected. The gentleman said in some parts the business had not been very satisfactory, especially in Ohio where the small yards had made but little during the past year. He said they were not stocking up much yet that in fact the heavy dealers in Cleveland and Toledo were not making an effort to sell as the believed prices must advance.

WANT A LUMBER EXCHANGE.

Agitation for the establishment of a lumber exchange in New York city is going forward. The Times notes the movement as follows : -

"One hundred and fifty firms carry on the lumber business in New York, and one of thom estimates the amount of capital invested at more than \$10,000,000. The persons who compose these firms are in the aggregate worth much more than three times this sum, and if the real lumber market of New York is not so large as Chicago's there is more wealth back of it. For years the New York bunber dealers have tried in vain to establish an exchange. The reason an exchange is desired by them is that by surveying and classifying a system of proper prices may be put upon lumber. Such a system of prices has been adopted in all the principal lumber markets of America except New York, where inspection is not standard, but private, each firm omploying its own agent. The lumbermen who want an exchange contend that with its influence for good a set of regulations alike just to the men in the south, west, and northwest as well as to the New York dealer to whom he sells, will be taken up and stood by. They want, as one of them said vesterday. regulations which will assure an inspection return properly verified, that it will carry with it evidence of the value of material needed at home and the certificates of both value and integrity that is needed abroad. As it is, how ever, all lumber depends absolutely on the inspector. If mistakes are made, there are some of the New York dealers who wish for a proper exchange to deal postice all around."

"The eastern editors of the Northwestern Lumberman published at Chicago, say that not s week passes that complaints are not received from shippers of hardwood to the New York There is no head or tail to the lummarket ber inspection here,' they say, 'and it is this lack of open and authorized inspection that is bringing the New York market into bad repute among mill men all over the country." element of the trade which opposes the exchange does so, it is asserted, on the ground that it is not necessary to the needs of the trade, and that, so far as the system of inspection is concerned, the reputation of the firm to which lumber is shipped should be sufficient authority for the honesty of its inspection, The committee which had the matter in charge yesterday adopted a constitution and by-laws. The Legislature will be asked to authorize lawful inspectors."

The Hartford Steam Boiler Inspection & Insurance company's bulletin has a timely and instructive artice, which exhibits in a striking manner the serious results which may follow the use of very good feed water when a strong course of practice is followed in the managem nt. The facts are as follows :

Five new boilers all burned and bagged inside of three weeks after they were first started up. The water used was of very good qualitymaking but little scale or sediment, and the the accidents were due entirely to the manner in which the fires were managed. The burns all o curred within a few inches of the front heads of the boilers, and all occurred at the same hour of the day, although on different days.

It was customary to bank the fires at noon. or rather to fill the furnace full of soft coal, and have the fire door open instead of closing the damper partially, to check the formation of steam. This allowed a current of cold air to enter above the fuel and impinge on the fire shoet. This, of course, would check the circ lation, and what little sediment the water held in suspension, and which would circulate with the water as long as steam being rapidly generated, would naturally be deposited on the bottom of the boiler near the front end,

Upon starting the works at one o'clock, it was the practice to run a slice bar through the thick layer of coal put on an hour or so before, and which had in the meantime become thoroughly coked, and break it up thoroughly, then close the fire door. This intense heat thus auddenly applied to the boiler burned the sediment on to the fire sheets before a brisk circulation of the water could be established, which would have gradually picked it up and prevent el any damage. But after it was once baked on the shell it could not be removed by the circulating water and the over-heating, bagging, and burning of the iron followed naturally in. a short time.

The bag, or pocket, shown in the illustration is about four inches deep, 15 inches broad at; the base, and at the lowest point the iron is thoroughly burned out. The thickness of the layer of acdiment on the interior is only about 1-16 of an inch. Upon careful examination by the company's inspector, a change in practice was made, and no further trouble has occurred for several years.

Another similar case occurred at about the same time in another locality, where, in a battery of 14 boilers, three of them "came down" at once. This latter case was due to the peculis method of "baking" the fires, and was stopped, as was the first one, by a change in practice.

Too much care can not be exercised in cases similar to the above in the method of firing the boilers. Fires should be started and steam raised gradually, that circulation may be estable lished in a proper manner. This will not only prevent such accidents as have been describer, but will also prevent undue strains on different portions of the shells, due to the differences of temperature. Many boilers have undoubtedly been ruined by injudicious firing, and the fault attributed to some defect in the boiler, when in reality none existed.

MOUNTAIN MAHOGANY

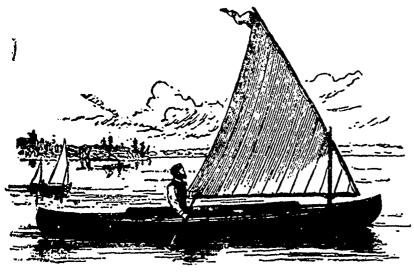
In Nevada there is a peculiar wood known as mountain inalogany. The tive does not grow large. A tree with a trunk a foot in diameter is much above the average. When dry the ! word is about as hard as boxwood, and being of a very fine grain might no doubt be used for the same puriose. It is of a rich, red colorand very heavy. When well seasoned it would? be a fine material for the wood-carver. In the early days it was used in making boxes for for shafting, and in a few instances for shoes and dies in quartz battery. Used a fuel it creates intense heat. It burns with a blaze as long as ordinary wood would last, and then is found (almost unchanged in ferm) convert to a charcoal that lasts about twice as long as ordinary wood. For fuel it stands much higher then any other kind of wood; indeed, a cord of .t. always brings the same price as a top of coal. The only objection to it as a fuel is that it, croates such an intense heat as to burn out stoves more rapidly than ceal, however bad,

The Ontario Canoe Co, Limited.

PETERBOROUGH, ONTARIO,

Manufacturers of all kinds of PLEASURE, FISHING and HUNTING

Patent Cedar Rib Canocs, Patent Longitudinal Rib Canoes, Basswood Canoes, Folding Canoes, Paddles, Oars, Tents, and all Canoe Fittings.



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MANUFACTURER OF

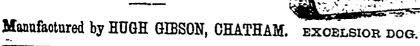
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Those Mildogs I guarantee to give satisfaction in every case. They will hold a frozen log as well as a soft one, for cutting Scantling, Square Timber, &c. These Dogs cannot be excelled, I sell them all on their own merits, give ten or fifteen days trial, and then, if not satisfactory, return them to my order, as I have no agents on the road this year, I will sell them at a reduced price. Send for Circular and price list.





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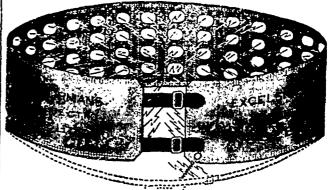
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SPINE BANDS. SHOULDER BANDS.

This Belt is the last improvement and the best yet developed Curative Appliance in the world for

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and all diseases of men, and is a grand remedy for Female Com plaints also. Cir oular and con

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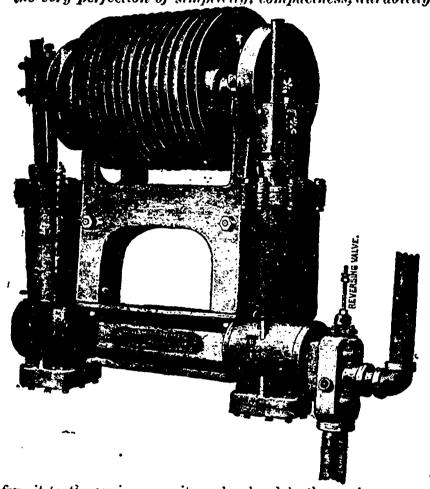
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The above engraving illustrates the Twin Engine, 10x16, for Rope Feed, for Saw Mill Carriages. The spool is 27 in. diameter, 30 in. face, is grooved 2 in. pitch for 11 in. rope. The shaft is steel, 41 in. diameter, with disk cranks. No connecting rods, eccentrics or valve rods to get loose and out of order. The ports are in the trunions, and worked by an oscilliation of the cylinders, and are held in their place in the downward motion by a steam cushion below. The sawyer's valve is a perfect balance, and by moving this valve the engine can be reversed, stopped or started almost instantaneously if necessary, as the sawyer has perfect control of it by his lever either to go fast or slow. Should the sawyer let go of his lever either by mistake or any other cause. it is balanced so that the valve will come to the centre and cut the steam off both cylinders and stop the feed. When standing, the lever is locked or fastended, so that is is impossible for it to The engine stands upright below the carriage, start off itself. and bolted to two upright beams, placed on the mill for the purpose. When a rack is preferred in place of the rope, we put on a steel wheel 30 in. in diameter, and the engine placed high enough to work into the rack on carriage bar, or if the beams come in the way, an idler wheel can be used between engine and rack segs; or, the engine can be placed at a distance and have a shaft

from it to the carriage; or it can be placed in the engine room, where it is under the control of the engineer for oiling, thence by shaft and pinion to carriage rack bars. These engines are well adapted for cutting long logs, or where the logs are mixed, the advantage of this feed will be apparent to mill men. When the carriages are used in two or more sections, the coupling and uncoup ling of each section is quick and simple.

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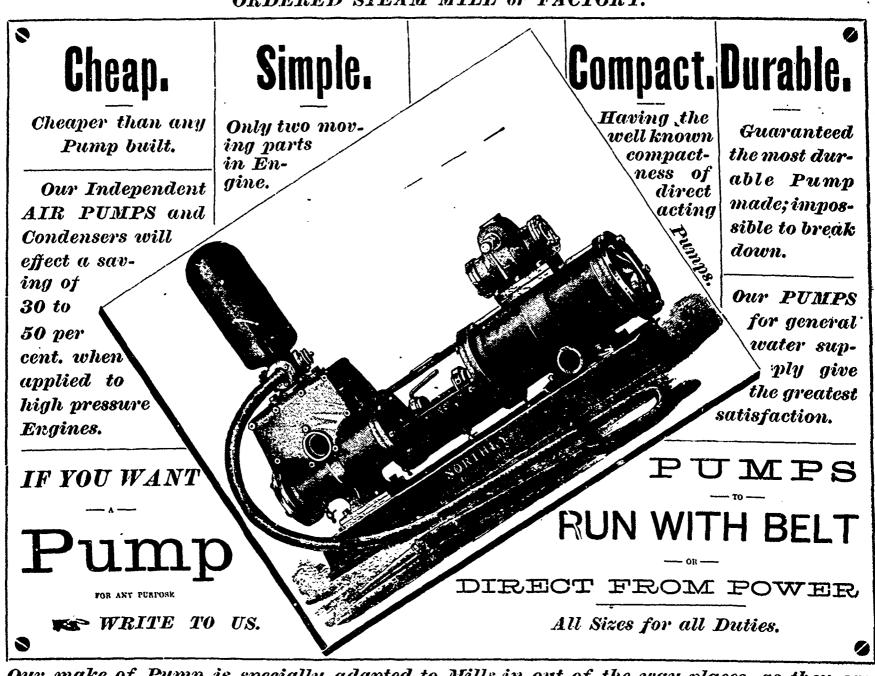
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