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

The Institute has copy available for may be bibliograph of the images in the significantly characteristics.	r filming. Fe phically uniq he reproduct	patures of this ue, which ma tion, or which	copy w y alter a i may	hich ny			L'Institut a microfilmé le meilleur exemplai lui a été possible de se procurer. Les détails exemplaire qui sont peut-être uniques du pobibliographique, qui peuvent modifier une ir reproduite, ou qui peuvent exiger une modidans la méthode normale de filmage sont inci-dessous.				détails de du poin r une ima e modific	e cet t de vue age cation		
Coloured converture	· -•						[			red pages/ de couleu				
Covers dam Couverture	aged/ endommagé	ee					[		-	damaged/ endomma	gées			
1	ored and/or l restaurée et/	laminated/ /ou pelliculée							_	restored a restaurées				
Cover title	missing/ couverture m	nanque							-	discoloure décolorées				
Coloured m	aps/ raphiques en	couleur							_	detached/ détachées				
1 1	•	than blue or late que bleue		re)						hrough/ parence				
1 1		illustrations/ ons en couleu	r					~ :		y of print é inégale c		ression		
11/1	other mater autres docu	•						1		uous pagi tion conti		,		
along interio	or margin/	shadows or o						,		es index(e rend un (d	- • •	ex		
	_	narge intérieu ng restoration								n header i e de l'en-t				
within the t	ext. Whenev d from filmi	ver possible, t	hese hav	16				- 1	•	age of issue titre de		son		
lors d'une re	estauration a e cela était p	pparaissent d oossible, ces p	ens le te	xte,					-	n of issue. le départ c		raison		
• • • • • • • • • • • • • • • • • • • •								4	Masthe Sénéri	sad/ que (pério	odiques)	de la li	vraison	
Additional of Commentain	comments:/ res suppléme	entaires:												
This item is filmed Ce document est f					sous.									
10X	14X		18X			;	22X	<del></del>	<del></del>	26)	x	<del></del>	30×	
12X		16X			20X				24X			28X		32

Wood-Workers', Manufacturers' and Millers' Gazette

TORONTO, CANADA, FEBRUARY, 1901

J TERMS,\$1.00 PER YEAR Single Copies, 10 Cents

HAS. D. DICKINSON & CO.

WOODSTOCK, N.B.

UPPER LEATHER TANNERS

Manufacturers of Larrigans, Shoe Packs and Moccasins.

# Patent

LACING LEATHER FOR BELTING

a J. McCready & Co., of Montreal, are the Sole Agents for the Provinces Mario, Manitoba, British Columbia, and the North-West Territories.

#### OTTAWA SAW THE 60. LIMITED

Middle Street, OTTAWA, ONT.

Sole Licensees for Canada for . . .

The best material for the manufacture of Highest Grade

### BAND, CANC AND CIRCULAR SAWS

There is only one Sanvik Swedish Steel Co., and we. are their Sole Agents for Canada.

P. M. FEENY, Manager.

For Stationary, Traction and Marine Boilers.

High and Low or Special Duty.

d for Illustrated Catalogue.

### DARLING BROTHERS

Rellance Works

XXI.

MONTREAL

Res and Works: Queen and Ottawa Streets, MONTREAL. ak Darling, Agent, Molsons Bank Building, Vancouver, B.C.

### MACHINISTS AND FOUNDERS. SAW MILL REPAIRS.

Sole Manufacturers of the-

EMING PATENT SAFETY COLLAR

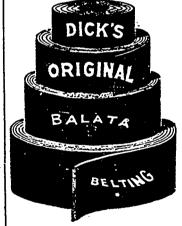
No Set Screws. Reliable.

Bridge St.

**OTTAWA** 

### THE STRONGEST BELT

In the World



Unrivalled for damp work.

Positively no stretching.

Do not be misled by imitations.

WRITE DIRECT TO SOLE AGENT:

J. S. YOUNG,

15 Hospital Street. MONTREAL

### LUMBER OPERATORS' NEEDS

SPRING 👡

Tents, all sizes. Our special non-absorbent duck, drills, etc. All sizes, and prompt execution of orders.

Overalls, Top Shirts, Sox, Short Driving Pants, Long Stockings, Hats, Underwear, Blankets, Tarpaulins, Axes, Moccasins, Driving Shoes and all other Lumbermen's Supplies.

### JAMES WOODS

WHOLESALE MANUFACTURER

64-66 OUEEN ST. - · OTTAWA, ONT.

THIS STAMP-

1.LGOODHUE&CO. DANVILLE, QUE

on LEATHER BELTING is a guarantee of a reliable article made by responsible people.

MANUFACTURERS OF

# CIRCULAR AND LONG SAWS

R. Burns Patent Handle



Patented June 26th, 1893

POSITIVELY THE STRONGEST AND MOST EASILY ADJUSTED HANDLE MADE



# No. I IRON FRAME OSCILLATING CAN SAW SASHES OF ALL WIDTHS

We manufacture a Complete Line of



### HIGH GRADE SAW-MILL MACHINERY

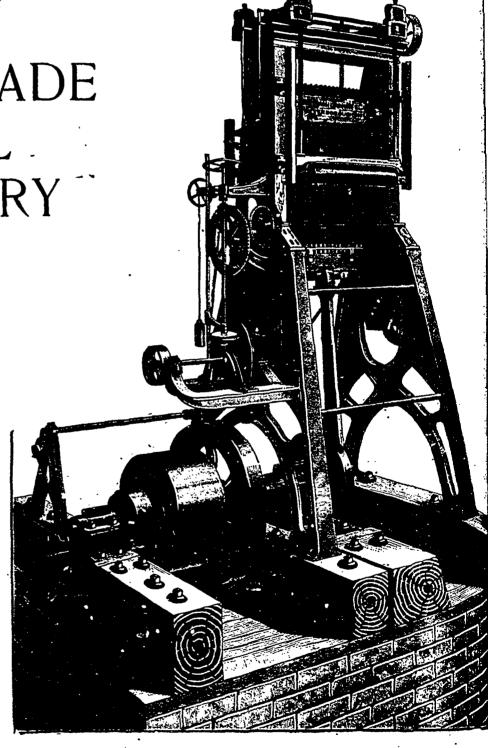
Prescott Band Mills
Perkins Shingle Mill Machinery
Covel's Tools for the care of
Saws
Engines, Boilers, Etc.

CATALOGUES ON APPLICATION



We are prepared to furnish plans, specifications, and build mills complete of any capacity, or to remodel old mills.

Write for prices, informing us what your requirements are.



The Wm. Hamilton Mfg. Co., Limited

Branch Office: VANCOUVER, B.C.

PETERBOROUGH, ON

o e e e E E E E e e e e e

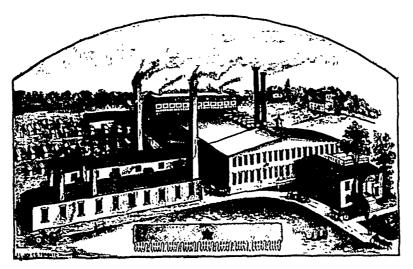
# MAPLE LEAF SAW WORKS



# Shurly & Dietrich GALT, ONT.

Manufacturers of

CIRCULAR SAWS
CANG SAWS
MILL SAWS
BAND SAWS
CROSS-CUT SAWS



Manufacturers of

HAND SAWS
BUCK SAWS
PLASTERING TROWELS
BUTCHER SAWS
STRAW KNIVES, &c.

#### GIVEN STURY CHILLING THE PROPERTY CHILD

GROUND THIN ON BACK

Save Labor

Save Guinming

Save Time

Save Files

### This Saw Stands Without a Rival

AND IS THE

PASTRST CUTTING SAW IN THE WORLD!

Its Superiority consists in its Excellent Temper. It is made of "Razor Steel," which is the finest ever used in the manufacture of Saws. We have the sole control of his steel. It is tempered by our secret process, which process gives a keener cutting edge and a toughness to be steel which no other process can approach.

### Maple Leaf Saw Set

MANUFACTURED BY

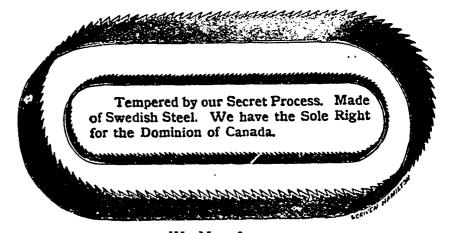
SHURLY & DIETRICH, Galt, Ont.

Directions.—Place the set on the point of tooth, as shown in the accompanying cut, and strike a very light blow with a tack hammer. If you require more set, file the tooth with more bevel.

If you follow directions you cannot make a mistake Be sure and not strike too hard a blow, and it will set the hardest saw. On receipt of 40 cents we will send one by mail.



We are the only manufacturers in the world who export Saws in large quantities to the United States.



We Manufacture

### HIGH GRADE BAND SAWS

of All Widths and Lengths.

These Saws are made of Refined Swedish Steel imported direct, and tempered by our Secret Process; for Fine Finish and Temper are not excelled.

# Northey Triplex Power Pump

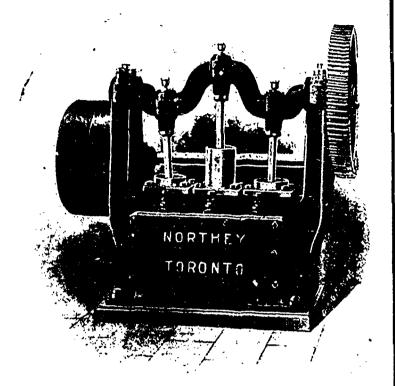
### FOR BOILER FEEDING **GENERAL PRESSURE PURPOSES**

In the Northey Triplex Power Pump we offer a machine put together with the skill brought by years of experience in pump building, and with full provision made for the varied demands likely to be made upon a pump of this character. A feature of value is that the three cranks are placed 120 degrees apart, thus giving a practically constant flow of water—minimizing strain on pump and economizing power. The pump can be readily repacked and taken up, and all details are carefully worked out. It can be conveniently operated by electricity, by water power, or by belt from engine. Different styles and sizes made to suit all duties.

WE ARE MANUFACTURERS OF OVER FIVE HUNDRED DIFFERENT STYLES AND VARIETIES OF STEAM AND POWER PUMPS FOR STATIONARY AND MARINE PURPOSES. WE INVITE ENQUIRIES FROM ENGINEERS, MINE SUPERINTENDENTS AND OTHERS FOR THEIR REQUIREMENTS IN OUR LINE. CATALOGUES AND SPECI-FICATIONS FURNISHED UPON REQUEST.

> We are also manufacturers of the Northey Gas and Gasoline Engine which has proved to be the handlest and most convenient power for small or intermittent power users in the market. Suitable for machine shops, pumping and electric light plants, etc. Write for illustrated descriptive booklet.

THE NORTHEY COMPANY, LIMITED



The Best that is on the Market

Try it and be Convinced.

### SYRACUSE SMELTING WORKS

MONTREAL and SYRACUSE

ARING BEFREIT And CHEAPER

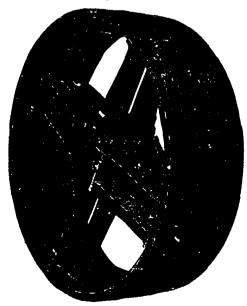
More Durable, Efficient and Chines for Beltings not Str.

More Durable, Leather Heat Does not Heat Does not Str.

More Durable, Leather Heat Does not Heat Does not Str.

More Durable, Leather Heat Does not Heat Do Does not Stratch Not affected by Damphess or Heat SATISFACTION GUARANTEEN DE Returned
Trial allowed of expense if unsatisfactory

Dodge Patent Independence Wood Split Pulley with Patent Standardized Bushing System.



FEBRUART, P

are now the reco nized 'STANDARD the world over.

We make them i Saw Mill Work,

Much handier, a be got quicker, a Cost Less than an other Pulley made.

Every Pulley Gur anteed.

SEND FOR CATALOGIE

SOLE MANUFACTURERS.

### Dodge Manufacturing Co. of Toronto, Limited

WORKS: Toronto Junction. Offices: 74 York Street, Toronto Ok

# T辈 CANADA LUMBERMAN

TORONTO, GANADA, FEBRUARY, 1901

TERMS,\$1.00 PER YEAR Single Copies, 10 Cents

### THE LUMBER TRADE OF 1900

bles Showing the Shipments from the Different Provinces.—Year of Satisfactory . Progress. High Freight Rates the Feature of Export Business.

OLLOWING our usual custom, a review of the lumber trade of the year 1900 is presented in this issue. By means of the a given, the extent of the lumber industry of Dominion may be estimated, while the tables of particular value as showing comparisons b previous years. Some advancement was de by the lumber industry during the year. volume of home consumption was as large in the previous year, while the exports to eign countries show a slight increase. The ements of lumber from British Columbia were 000,000 feet greater than in 1899, those of w Brunswick 70,000,000 feet greater, and of na Scotia 20,000,000 feet greater. From the vince of Quebec the exports were slightly less, although statistics covering the province of tario are not available, it is believed that the pments were about the same as in the preus year.

The output of lumber during the year exceeded production of 1899, and at the close of the son manufacturers and dealers held slightly ger stocks. The Presidential election in the ited States was a disturbing factor, causing a ing off in the demand from that country.

theyear, although towards the close there sassight depreciation in the price of hardods. The figures at which lumber was sold, were, show that there is a growing apprecianef lumber values, consequent upon the deased timber supply. This is especially true in pect to hardwoods, of which the supply has ome greatly dimunished.

Excessive freight and insurance rates and a ucity of tonnage from both the Pacific and antic coasts were features of the export trade. see charters were effected at the highest rates record, 62 shillings 6 pence being paid from atteal to London. Early in the year the export mand was very brisk, but towards the close British market became somewhat depressed. It is stock of export tumber held over at shipping its is greater than at the close of the previous

#### ONTARIO.

When the mills ... Ontario commenced operars last spring, the stock of unsold lumber held
dealers and man macturers had been reduced
very small properions. The active demand
ich characterize the trade of 1899 continued
ing the first had of last year, with lumber
res generally quare as high, and in some in-

stances higher. The probability of a weaker market as midsummer was approached was removed by the fire in the lumber district of Ottawa which occurred in April, and by which over 150,000,-000 feet of lumber, chiefly pine, was destroyed and thus taken out of the market. While more directly affecting the Ottawa district, the result of the fire was to cause manufacturer throughout the province to hold plices firmly, as it became evident that all the lumber manufactured was likely to be required for local and export pur-Sales of the most active grades of pine lumber were made at prices about one dollar per thousand higher than in 1899, and although some stocks were allowed to accumulate at the mills towards fall, there was no depreciation of values, and the year on the whole was characterized by high prices, especially for white and red pine. Presidential election in the United States was the cause of a temporary cessation in the demand from that quarter. Larger shipments were made from the Georgian Bay district to Michigan than ever before.

The quantity of lumber manufactured was equal to, if not greater, than in 1899. Many of the Georgian Bay mills were employed in sawing for firms which had in previous years rafted their logs to Michigan to be manufactured. The Ottawa Valley production of pine was slightly increased. While prices during the year were high, it is understood that the profits of lumbermen were no greater than in the previous year. This is due to the increased cost of production, brought about by the higher cost of labor and supplies and by high freights and insurance in transporation.

The early part of last year was phenomenal in the remarkable demand for hardwoods of all Prices were then the highest that have been known for years. Later in the season this demand fell away. Many of the hardwood lumbermen did not avail themselves of their early opportunities to sell, and consequently the stocks at the close of the year were rather heavy. the winter of 1899-1900 extreme prices were paid for hardwood logs, so that it was necessary to hold lumber for high figures. Beech lumber came into unusual dema 1 during the year in some localities. There was also a greater use of hemlock, which sold at \$9 per thousand at mills in western Ontario.

The shingle market did not seem to gain in strength in common with lumber. The white pine variety encountered severe competition from red cedars.

Lath was in fair demand, but the high price of \$3.75 for No. 1 white pine which ruled in the fall of 1899 did not hold. Towards the close of the year there was greater firmness.

On a conservative estimate the cut of the Ottawa and Ottawa Valley mills for 1900 will total 588,000,000 feet. This is an increase of 56,000,-000 feet over the cut of 1899. This may seem surprising, in view of the fact that fire played havoc with the Ottawa lumber interests. Lie Hull Lumber Co.'s mill was completely destroyed, but this company had the use of the Mason and Bronson & Weston mills at Ottawa and an Aylmer mill, the combined cut of which was greater than that in 1899 at the old mill. mill at the Chaudiere was only interfered with early in the season by the fire, though the standing supply of lumber was wiped out. As the mill was worked day and night till late in the season the cut was large. Gillies Bros., Braeside, also had a large cut at their mill, amounting to 30,000,000 feet. The cut at the other mills was about the same as in the past year. The Ottawa Valley production for two years is below:

#### OTTAWA VALLEY PRODUCTION.

Ottawa vallet i	RODUCTION.	
	1899 – Feet	190)—Feet.
J. R. Booth, Ottawa	125,000,000	125,000,000
Gilmour & Co., Trenton	25,000,000	25,000,000
Hull Lumber Co., Hull	25,000,000	35,000,000
McLachlin Bros., Amprior '. Hawkesbury Lumber Co.,	65,000,000	70,000,000
W. C. Edwards & Co., Rock-	50,000,000	45,000,000
land and New Edinburgh St. Anthony Lumber Company,	70,000,000	85,000,000
Whitney	43,000,000	12,000,000
Gillies Bros., Braeside	13,000,000	30,000,000
Gilmour & Hughson, Hull	30,000,000	35,000,000
R. & W. Conroy, Deschenes	(10,000,000	3,510001000
MillsPembroke Lumber Co., Pem-	3,000,000	• • • • • • • •
broke .	11,000,000	14,000,000
Ottawa Lumber Co., Calumet	10,000,000	8,000,000
Ross Bros., Buckingham	10,000,000	10,000,000
McLaren Estate, Buckingham	16,000,000	15,000,000
J. R. & J. Gillies, Arnprior	3,000,000	3,000,000
A. Hagar & Co., Plantaganet.	6,000,000	6,000,000
A. & P. White, Pembroke	5,000,000	5,000,000
Bailey Bros., Aylmer	8,000,000	4,000,000
McLaren & McLaurin, East		
Templeton	10,0000,00	6,000,000
G. H. Perley Co., Calumet	•••••	25,000,000
Total	532,000,000	588,000,000

#### QUEBEC.

Nearly every lumber manufacturer in Quebec catering to the local and United States markets reports a very satisfactory year's business. Particularly in the early months in the year was there am active demand from the United States, and as stocks became scarce prices were advanced. One manufacturer writes that the average prices of spruce and hemlock lumber were three dollars higher than in 1899. There was also an increased demand for hardwoods, and the season closed with stocks of lumber suitable for the United States market practically cleaned up. The higher prices offered by shippers to the United States was an inducement

to manufacturers to cut for that market rather than for Great Britain, and consequently the shipments to the latter country show a considerable falling off. Another drawback to the British trade was the high freight and insurance rates from the St. Lawrence. Owing to the Ottawa fire only about 40 per cent. of the shipments from the port of Montreal came under summer insurance rates, while 60 per cent. were under extreme autumn rates. The opening spring rates of freight ranged from 45 to 50 shillings, according to port of destination; summer and autumn rates ranged 60 shillings and upwards, as high as 75 shillings having been paid for special ports.

The trans-Atlantic shimpments from the port of Montreal were approximately 239,000,000 feet, a decrease of 50,000,000 feet as compared with the previous year. The following table shows the respective shipments of the different firms from the port of Montreal for two years:

	1899—Feet.	1900-Feet.
Watson & Todd	52,152,000	55,574,000
Dobell, Beckett & Co	54,852,000	39,429,408
W. & J. Sharples	52,166,308	37,735,855
R. Cox & Co	35,732,949	26,826,629
McArthur Bros	24,368,952	19,302,370
Charlemagne Lumber Co	19,079,315	16,135,965
J. Burstall & Co	26,887,315	14,843,496
Cox, Long & Co		6,643,931
McLaurin Bros	5,385,000	5,214,061
E. H. Lemay	5,934,000	4,339,925
D. Cream	1,268,840	955,526
Harold Kennedy	961,838	613,800
The Robert Reford Co., Ltd.	207,900	524,708
Imperial Lumber Co		289,020
Montreal Lumber Co		228,189
Sundry Shippers	9,876,804	3,328,537
Railways, etc		7,236,960
Total feet	288,826,512	239,222,380

Only one shipment of lumber was made to the River Plate, consisting of 463,765, the shippers being the Export Lumber Company.

From ports east of Montreal, exclusive of Quebec, the following shipments were made:

	Feet.
Dobell, Beckett & Co	
W. & J. Sharples	41,601,780
McArthur Bros., Limited	12,946,959
J. Burstall & Co	7,919,143
Price Bros. & Co	60,000,000
King Bros. & Co	25,000,000
Total	159,621,214

This brings the total lumber shipments from Montreal and eastern ports to 484,307,339 feet. The two largest shippers were Dobell, Beckett & Company, with a total 136,582,740 feet, and W. & J. Sharples with 79,337,635 feet.

The returns from the port of Quebec show a considerable falling off in the export of square and waney timber and pine and spruce deals. annual timber trade circular of J. Bell Forsyth & Company reviews the timber trade of the port of Quebec in the following manner:

WHITE PINE.—Even with the diminished export, which is the lightest on record, the wintering stock has fallen far below that of any previous year since the trade was established. production will be small in spite of the advanced prices, and the sources of supply seem almost exhausted.

	Supply.	Export.	Stock.
1900 Square Waney	570,818 } 1,504,625 }	2.754,920	804,417 Square. 506,001 Waney.
1899 Square Waney		3,085,560	1,147,817 Square.

RED PINE.—The supply, export and wintering stock all show reduced figures. Canadian red pine deals being in good demand in the markets of the United Kingdom, the manufacture of this wood as timber will be exceedingly light this winter.

	Supply.		Export.		Stock.
1900	63,780		133,640		85,880
1899	159,977	• • • •	234,240	• • • •	142,078

OAK.—The export shows some falling off, but the light supply has left a very small stock on hand. The production will be very restricted this winter, and seems likely to cease altogether shortly, unless a very marked advance in price takes place.

Supply.			Export.	Stock.	
1900			779,040		303,413
1899	607,965	• • • •	877,320		615,520

ELM.--The marked advance in price has brought out a good supply, but the demand even at the increased figures has been so good as to leave a lighter stock than the moderate figures of last year.

•	Supply.	Export.	Stock.
1900		 682,600	 65,311
1899	472,889	 555,360	 100,373

Ash.—This wood continues in good demand at full prices, and although the advance in value has increased the production, the stock is again almost nominal.

	Supply.	Export.	Stock		
1900			84,880		2,211
1899	58,212		58,360		2,950

Birch.—The export has again been large, almost clearing stock. As business in this wood has been very unprofitable, the production will be much reduced.

	Supply.		Export.		Stock.
1900		• • • •	371,240	• • • •	11,486
1899	253,039		328,440	• • • •	3,331

PINE DEALS.—The advance in value noted last year has been maintained; the Ottawa mill cuttings having been disposed of at similar figures for next season's cut. Prices continue good in the United Kingdom, but the diminished consumption shows a necessity for caution. It must be remembered the following figures are for Quebec only, and represent a very small proportion of the deal trade.

	Supply.		Export.	Stock	
1900			233,540		15,720
1899	396,000	• • • •	353,000		66,003

SPRUCE DEALS .- Values have been maintained on this side of the Atlantic, but owing to the large supply of Baltic whitewood, a drop of price from the highest point has taken place in the United Kingdom, and the stock wintering there is greatly in excess of last year.

	Supply.		Export.		Stock.
1899		••••	4,965,468 6,563,000	••••	904,863 516,160

SAWN LUMBER. -- Shipments have been almost nil during the past season to the River Platte, that market having been unable to respond to the increased value recommended by the ship-

FREIGHTS.—Opened for steam at about fortyseven and sixpence for deals for Montreal liners, and steadily advanced, owing to the scarcity of tonnage, to seventy shillings. For steamers for Quebec timber cargoes eighty shillings for timber and fifty-five shillings for deals was paid in the spring. For sailing vessels loaded at Quebec, twenty-five shillings per load was paid for the Clyde in June.

It is interesting to compare current prices for timber with those ruling five years ago. The advance in the price of square pine timber is shown to have been about six cents per cubic foot, that in waney pine about four cents, red pine eight cents, ash six cents, while in elm the advance

had been fully fifteen cents per foot. Out and tamarac are selling at yout the same as five years ago.

#### THE MARITIME PROVINCES

Manufacturers of lumber in New Brees and Nova Scotia disposed 11 the greater per of their product at very utisfactory proc early in the year there was a very active for stock for shipment to Great Britains United States. Spruce deals which in 1891 at \$10 per thousand were freely contracted the early spring of last year at an advanced dollar over this price, while South American specifications were taken at \$11,50. prices of deals were higher, the margin de was no greater, owing to the increased on production and higher ocean freights. The ments to the United States, while active exthe year, decreased in the fall, and the total the port of St. John shows a decline in rai Clapboards were a drug upg \$347,048.59. market, and such sales as were made were ly of an unprofitable character. The cedar market was also depressed, the average st price being 25 to 50 cents lower than in d

The trans-Atlantic shipments from the time provinces were of large volume, Fron Brunswick they reached 489,000,000 feet, if is within 5,000,000 feet of the largest exert record, that in the year 1897. The expense chiefly to Great Britain; France and Spain about 9,000,000 feet each; Australia, 6,000 feet; and Italy a little over 1,000,000 feet.

Although accurate statistics are not avail it is believed that a fair estimate of the la exports from Nova Scotia would be 200,000 feet. The shipments to trans-Atlantic ports been given as 146,000,000 feet, showing a crease of 18,000,000 over the previous year. bably 20,000,000 feet was shipped to South American and about 10,000,000 feet to Cuba and the Indies. The principal shippers to SouthAme were E. D. Davidson & Sons, of Bridgers Dickie & McGrath, of Tusket; Parker, E & Co., of Yarmouth; Blackadar Bros., of mouth; S. P. Benjamin, of Wolfville; A Dickie, of Lower Stewiacke; and I. T. Free of Jordan River.

Below is given a table showing a compared statement of lumber shipped from St. John b United States in the years 1899 and 1900, i vision being made in the lumber manufact from New Brunswick logs and that from & logs:

EXPORTS OF ST. JOHN TO U.S.-1899.

NEW	PROVENIC	v marki	
Fi	nu Half Year.	Sec nd Half Year.	Is)
Long lumber	\$32,935.43	\$65,075.88	\$320
Laths	28,561.72	00,095.94	946
Shingles	23,283.75	41,957.87	65.44 17.34
Piling	4,327.40	13,263.32	173
Kilnwood	2,879.00	2,424.00	3,7
Staves	132.08	340.66	Ç
Pulp	•	54,615.29	SIÈ

\$92,119.38 \$243.772.96 \$355 MAINE LUMBER.

Long lumber\$	510.150.06	\$2-7, 377, 30	\$706
Laths	45.182.41	40,213.73	8
Shingles		19,978.47	
Clapboards	865.00	1,918.37	1
Stave:	•	196.94	
Shooks		681.50	
Planers		7,428.24	3

\$582,368.87 \$===,794.55 \$

Total....,\$674,488.25 \$613,567.51\$1,7945

February, 1901				T]
Sr. Jona Ex	PORTS	<b>—</b> 1900.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-
First   f Ye	ar. Sec	ond Half Ye		
aths 5 749.0		55,772.84 54,207.85	\$111,906.43	
in 586.6	14	9,652.46	21,539.10	
and pulm.		3,437 <b>.</b> 50	171,016.39 6,448.75	
de wood		16,554.75	18,157.25	
ares		533.70	769.24	
	21 \$2	20,867.86	\$442,794.07	
American	LUMB	ER.		
ub \$ 3-744.9	8 \$	33,899.81	\$ 66,644.79	
esber	<i>'</i> )	06,396.79 13,468.75	353,655.44 76,621.75	
inhunis.	ю	3,099.00	6,643.00	
1,648.1	·		1,648.12	
\$31, 148.7	5 \$18	36,864.35	\$505,213.10	
Total\$540.274.9	y6 \$40	07,732.21	\$948,007.17	
Grand total for 1867	••••		\$1,294,055.76 948,007.17	
Grand total for 1900				
Decrease in 190	o		\$346,048.59	
The export trade of th	e pr	ovince i	s carefully	
niewed by Hon. J. B.	Sno	wball in	his annual	
iramichi Wood Trade	Circui	lar, fron	which the	
youing details are extr	acted	:		
Advanced freight and	high i	insuranc	e rates had	
cortailing effect on fall	busi	ness, pr	oducers re-	
sing to ship without see	eing a	prospe	ct of realiz-	
ofirst cost; consequently	y wint	tering st	ocks at this	
ort are slightly larger t	than 1	ast yea	r and ship-	
ents proportionately les	ss.			
Shippers from this por	t are	e not al	ole to keep	
ace with the cheaper	produ	ctions	from Nova	
cotia and the Bay of Fu	ndv r	orts, as	the latter	
rgely escape the high s	tump	age taxo	es to which	
mbermen in the nort	hern	nortion	s of New	
runswick are subject;	and i	n view o	of the fact.	
so, that cheaper suppli	es an	d Jahor	are avail-	
ble for their operations.	cs an	u laboi	are avan-	
The stock of mercha	ntabl	o encue	and nine	
			ficial feet,	
				•
gainst 32,000,000   last 3 68–4,500,000   superfi			ooo,ooo in	
ainst 6,293,000 superfi				
BIPMENTS FROM MIRAMICHI TO 1900, IN			rkum 1891	
91-72,000,000 1895- 82,0	000,000	0 1899	-129,000,000	
92-93,000,000 1896-106,0			-122,000,000	
hj.8j,000,000 1897-102,0 hj.96,000,000 1898-113,0				
	No	_	Sup. ft, d als, ends, s antling,	
FE	essels.	Tons.	beards, etc.	
B. Soowball E. Neale	32 21	28,715 18,858	31,570,617 23,052,382	
. M. Mackay	15	17,100	22,528,463	
a. J. Ritchie	15 4	10,926 7,457	12,112,500 11,460,977	
ned Hutchison	9	7,602	8,083,213	
to Barchill & Sons	4 6	5,126 5,503	6,377,800 6,357,019	
ark, Skillings & Co	1	5,503 1,079	0,357,019	
pes A. Rundle	t	1,127		
	108	103,493	121,542,971	
Spolwood and shooks –Cl. 5 sep. feet; James A. Rundi	ark, S le, 1. 20	Killings & O3,O22 Sun	. co., 2,312,	
tti, 43,000; total. 3.1949,88	8 sup.	feet.		
DISTRIBUTION OF MIL	RAMICI	и Ѕнірмі		
	N۸		Sup. ft. deals, e ds, scantling,	
Country Ve	cz-sl-c	To: s.	boards, etc.	
eat Britain	65 37	66,557 32,673	81,505,563 36,380,110	
ance	37 2	32,673 1,001	901,000	
ainth America	2	1,552	1,358,000	
nca	I I	1,037 673	733,078 665,220	
Total	108	103,493	121,542,971	
Speedwood and showks -Gr	eat B		949,888 sup.	
L John N.B. Sumur vecom				
John, N.B., Shipments of Ports, Dec. 1-1, 1899	DEAL TO T	STO TRAD DEC. 1ST	NS-ATLANTIC 1000.	
	Sup. ft.	deals,		
orribett.	boards, and e	scantling '	l imber (tens). Birch. Pine.	
M. McKav.	158,2			
			4,716 71	
L. Gibson Ry. & Mig. Co. Jea. McKean. Other shippers.	34,18	33,243 36,849 35,332	834	

ZZZ	DOMBERMA
Distribution of St. John, 1899, 70, 70	, N.B., SHIPMENTS, DEC. 1ST DEC. 1ST, 1900.
Ports.	Sup. R. deals, boards, scantling Timber (tons) and ends. Birch, Pine,
Avonmouth	2,186,782
Barrow Bristol Channel	
Belfast	
Bantry	506,065
Clare Castle	
Cork	
Dundalk	510,831
Drogheda	
Glasgow	
Grangemouth	685,575
Galway	
Liverpool	
London	17,454,919 125
Limerick Londonderry	
Larne	343,149
Manchester	29,098,915 622
Mersey, f.o Newcastle	
Newry	473,479
Preston	
Sligo West Hartlepool	877,524 1,204,439
Other British ports	5,629,360
France	
Spain	
Australia	4,552,891
Africa, Algerian Coast	3,115,694
Total	236,459,838 5,851 71
SHIPMENTS FROM ST. JOHN	TO TRANS-ATLANTIC PORTS
FOR THE PA	ST 10 YEARS. T tal sup. ft. Timber (tons)
	deals etc Birch. Pine.
1891	122,242,682 5,004
1892	146,529,309 10,200 156,653,334 5,294
1694	153,473,076 5,015
1895	126,449,706 8,374 324 167,249,707 9,892 128
	107.219.707 0.002 120
1896	
1897 1898	244,399,066 9,454 92 184,954,343 6,636 95
1897 1898 1899	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131
1897 1898 1899	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71
1897 1898	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71 New Brunswick Ports.
1897 1898 1899 1900 SHIPMENTS FROM OTHER MON	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71 New Brunswick Ports. CTON. Deals, scantling,
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro 3,204,623 sup ft.
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  000
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  pro
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  pro
1897 1898 1899 1900  SHIPMENTS FROM OTHER MON Shippers.  J. Nelson Smith, Hillsbor John L. Peck, Hillsbor W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  oro 3,204,623 sup ft.  1,905,000 " yell 14,814,043 "  11 6,505,329 " ell 1,042,535 " 6,486,258 "
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  oro 3,204,623 sup ft. 5, 1,905,000 " rell 14,814,043 " ll 6,505,329 " ell 1,042,535 " c 6,486,258 " d.361,656 "
1897 1898 1899 1900  SHIPMENTS FROM OTHER MON Shippers.  J. Nelson Smith, Hillsbor John L. Peck, Hillsbor W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  oro. 3,204,623 sup ft. 1,905,000 " yell. 14,814,043 " 11. 6,505,329 " ell. 1,042,535 " 6,486,258 " 4,361,656 " 3,190,000 "
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  oro 3,204,623 sup ft. 5, 1,905,000 "  rell 14,814,043 "  ll 6,505,329 " ell 1,042,535 " c 6,486,258 " d 4,361,656 " 3,190,000 " 41,509,444 "  OUSIE.
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  oro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  II. 6,505,329 "  rell. 1,042,535 "  4,361,656 "  3,190,000 "  41,509,444 "  OUSIE. 6,969,452 sup. ft.
1897 1898 1899 1900  SHIPMENTS FROM OTHER MON Shippers.  J. Nelson Smith, Hillsbor John L. Peck, Hillsbor W. M. MacKay, Hopew Geo. McKean, Hopewel Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey C. J. Willis, Harvey Total  DALHO Geo. Moffat & Co King Rros	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  Oro. 3,204,623 sup ft.  1,905,000 "  vell. 14,814,043 "  II. 6,505,329 "  ell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  OUSIE.  6,969,452 sup. ft.  6,720,711 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey. Total  DALHG Geo. Moffat & Co Price Bros. & Co Prescott Lumber Co	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  oro. 3,204,623 sup ft. 1,905,000 " yell. 14,814,043 " ll. 6,505,329 " yell. 1,042,535 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 4,361,656 " 3,190,000 " 41,509,444 " OUSIE. 6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 "
1897 1898 1899 1900  Shippers. J. Nelson Smith, Hillsborg W. M. MacKay, Hopew Geo. McKean, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey. Total  DALHG Geo. Moffat & Co King Rros Price Bros. & Co Prescott Lumber Co Nath. McNair	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft. 01. 14,814,043 " 11. 65,505,329 " 11. 64,86,258 " 11. 4361,656 " 11. 31,90,000 " 11. 509,444 " 11. 65,001 " 11. 63,001 " 11. 34,84950 " 11. 34,84950 " 11. 34,84950 "
1897 1898 1899 1900  SHIPMENTS FROM OTHER MON Shippers.  J. Nelson Smith, Hillsbor John L. Peck, Hillsbor W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey C. J. Willis, Harvey Total  DALHO Geo. Moffat & Co King Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Dutch	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  Oro. 3,204,623 sup ft. 1,905,000 "  vell. 14,814,043 "  II. 6,505,329 "  vell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  OUSIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey  Total  DALHO Geo. Moffat & Co King Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Dutch Geo. Montgomery	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft. 1,905,000 " 1,905,000 " 1,905,000 " 1,905,000 " 1,905,000 " 1,1,042,535 " 1,042,535 " 1,042,535 " 1,1,042,535 " 1,1,042,535 " 1,1,042,535 " 1,1,042,535 " 1,1,042,535 " 1,1,042,536 " 1,1,042,53
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewe W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey  Total  DALHO Geo. Moffat & Co King Rros Price Bros. & Co Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Dutch Geo. Montgomery Geo. Montgomery Wm. Currie & Co	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft. 1,905,000 " 1,905,000 " 1,1814,043 " 11. 6,505,329 " 11. 1042,535 " 1. 6,486,258 " 1. 4361,656 " 1. 3190,000 " 1. 41,509,444 "  0USIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsbor John L. Peck, Hillsboro W. M. Mackay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey C. J. Willis, Harvey  Total  DALHO Geo. Moffat & Co King Rros Price Bros. & Co	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  Oro. 3,204,623 sup ft. 1,905,000 "  vell. 14,814,043 " II. 6,505,329 "  vell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  OUSIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 "
1897 1898 1899 1900  Shippers. J. Nelson Smith, Hillsbord W. M. MacKay, Hopew Geo. McKean, Hopewed Thos. W. Ford, Hopewed W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey. Total  DALHG Geo. Moffat & Co King Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Montgomery Wm. Currie & Co Total  SHEI M. Wood & Son	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  II 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  31190,000 "  41,509,444 "  DUSIE.  6,969,452 sup, ft.  6,720,711 "  2,801,617 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  422,694 "  674,000 "  24,060,224 "  DIAC.  1,913,781 sup, ft.
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewed Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey  Total  DALHE Geo. Moffat & Co Ring Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Montgomery Wm. Currie & Co Total  SHEI M. Wood & Son T. B. Calhoun	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft. 01.905,000 "  vell. 14,814,043 "  11. 65,505,329 "  vell. 1,042,535 "  04,866,258 "  4,361,656 "  3,190,000 "  41,509,444 "  0USIE.  6,969,452 sup. ft. 6,720,711 "  2,801,617 "  3,484,950 "  1,398,001 "  1,180,276 "  387,523 "  422,694 "  674,000 "  24,060,224 "  DIAC.  1,913,781 sup. ft. 674,831 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsbord Money  Shippers.  J. Nelson Smith, Hillsbord W. M. Mackay, Hopew  Geo. McKean, Hopewed  Thos. W. Ford, Hopew  W. M. Mackay, Harvey  Geo. McKean, Harvey  C. J. Willis, Harvey  Total  DALHO  Geo. Moffat & Co  King Rros  Price Bros. & Co  Price Bros. & Co  Price Bros. & Co  Price Bros. & Co  Total  Shell  M. Wood & Son  T. B. Calhoun  C. J. Willis & Co  Total	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft. 1,905,000 " 1,905,000 " 1,905,000 " 1,905,000 " 1,905,000 " 1,905,000 " 1,1814,043 " 11. 6,505,329 " 1,1481,043 " 11. 042,535 " 1,4361,656 " 3,190,000 " 41,509,444 "  0USIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 " 24,060,224 "  DIAC.  1,913,781 sup. ft. 674,831 " 1,497,389 "
1897 1898 1899 1900  Shippers. J. Nelson Smith, Hillsbord W. M. MacKay, Hopew Geo. McKean, Hopewed Thos. W. Ford, Hopewed W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey.  Total  DALHG Geo. Moffat & Co King Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Montgomery Wm. Currie & Co Total  SHEI M. Wood & Son T. B. Calhoun C. J. Willis & Co Geo. McKean B. J. Smith	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  II. 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  422,694 "  DIAC.  1,913,781 sup. ft.  674,831 "  1,497,389 "  2,155,768 "  1,517,589 "
1897 1898 1899 1900  Shippers. J. Nelson Smith, Hillsborg W. M. MacKay, Hopew Geo. McKean, Hopewer Thos. W. Ford, Hopewer W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey. Total  DALHG Geo. Moffat & Co King Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Montgomery Wm. Currie & Co Total  SHEIM. Wood & Son T. B. Calhoun C. J. Willis & Co Geo. McKean B. J. Smith J. L. Black & Sons	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  II. 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  42,694 "  DIAC.  1,913,781 sup. ft.  674,831 "  674,831 "  1,497,389 "  1,151,7589 "  3,296,173 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. Mackay, Hopew Geo. McKean, Hopewe W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey  Total  DALHO Geo. Moffat & Co King Rros Price Bros. & Co	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft.  1,905,000 "  1,905,000 "  1,1814,043 "  11. 6,505,329 "  11. 6,486,258 "  4361,656 "  3,190,000 "  41,509,444 "  0USIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  3,484,950 "  1,398,001 "  1,398,001 "  1,180,276 "  387,523 "  422,694 "  674,000 "  24,060,224 "  0IAC.  1,913,781 sup. ft.  674,831 "  1,497,389 "  2,155,768 "  1,517,589 "  3,296,173 "  11,055,531 "
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  III. 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup, ft.  6,720,711 "  2,801,617 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  422,694 "  DIAC.  1,913,781 sup, ft.  674,831 "  1,497,389 "  2,155,768 "  1,517,589 "  3,296,173 "  VILLE.
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. Mackay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey  Total  DALHO Geo. Moffat & Co King Rros Price Bros. & Co Price Bros. & Co Price Bros. & Co Price Bros. & Co Total  BALHO Geo. Moffat & Co  Nath. McNair. G. J. Vaughan. Geo. Dutch Geo. Montgomery. Wm. Currie & Co Total  SHEI  M. Wood & Son C. J. Willis & Co. Geo. McKean B. J. Smith J. L. Black & Sons Total  SACKY M. Wood & Son C. J. Willis & Co C. J. Willis & Co  SACKY M. Wood & Son C. J. Willis & Co	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  NEW BRUNSWICK PORTS.  CTON.  Deals, scantling, ends and boards.  010. 3,204,623 sup ft.  1,905,000 11 1,905,000 11 1,1814,043 11 11.042,535 11 1,042,535 11 1,042,535 11 1,042,535 11 1,042,535 11 1,042,535 11 1,042,535 11 1,181,090 11 1,180,276 11 1,398,001 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,180,276 11 1,398,001 11 1,1913,781 sup. ft. 674,831 11 1,497,389 11 1,497,389 11 1,497,389 11 1,517,589 11 1,517
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  II. 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  42,694 "  DIAC.  1,913,781 sup. ft.  674,831 "  674,900 "  24,060,224 "  DIAC.  1,913,781 sup. ft.  674,831 "  1,497,389 "  2,155,768 "  1,517,589 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  2,839,285 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopewe W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey  Total  DALHE Geo. Moffat & Co Ring Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Mottgomery Wm. Currie & Co Total  SHEI M. Wood & Son C. J. Willis & Co Geo. McKean B. J. Smith J. L. Black & Sons Total  SACKY M. Wood & Son C. J. Willis & Co J. & C. Hickman Geo. McKean Geo. McKean  SACKY M. Wood & Son C. J. Willis & Co J. & C. Hickman Geo. McKean	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  000. 3,204,623 sup ft. 1,905,000 "  vell. 14,814,043 " ill. 6,505,329 " ell. 1,042,535 " 6,486,258 " 4,361,656 " 3,190,000 " 41,509,444 "  DUSIE. 6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 " 24,060,224 "  DIAC. 1,913,781 sup. ft. 674,831 " 1,497,389 " 2,155,768 " 1,517,589 " 3,296,173 " 11,055,531 "  VILLE. 2,306,330 sup. ft. 2,205,974 " 2,839,285 " 2,755,386 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. Mackay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopew W. M. Mackay, Harvey Geo. McKean, Harvey. C. J. Willis, Harvey Total  DALHE Geo. Moffat & Co Ring Rros Price Bros. & Co Prescott Lumber Co Nath. McNair. G. J. Vaughan Geo. Motton Geo. Motton Geo. Motton Shell M. Wood & Son Total  SHEI M. Wood & Son C. J. Willis & Co Geo. McKean B. J. Smith. J. L. Black & Sons Total  SACKY M. Wood & Son C. J. Willis & Co J. & C. Hickman Geo. McKean J. L. Black & Sons J. L. Black & Sons Arthur B. Fopp	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Oro. 3,204,623 sup ft. 1,905,000 "  vell. 14,814,043 " II. 6,505,329 " ell. 1,042,535 " 6,486,258 " 4,361,656 " 3,190,000 " 41,509,444 "  OUSIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 " 24,060,224 "  OIAC.  1,913,781 sup. ft. 674,831 " 1,497,389 " 2,155,768 " 1,517,589 " 3,296,173 " 11,055,531 "  VILLE. 2,306,330 sup. ft. 2,839,285 " 2,075,386 " 415,262 " 519,655 "
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopewe W. M. Mackay, Harvey Geo. McKean, Harvey.  C. J. Willis, Harvey  Total  DALHE Geo. Moffat & Co Ring Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Mottgomery Wm. Currie & Co Total  SHEI M. Wood & Son C. J. Willis & Co Geo. McKean B. J. Smith J. L. Black & Sons Total  SACKY M. Wood & Son C. J. Willis & Co J. & C. Hickman Geo. McKean J. L. Black & Sons Arthur B. Copp Total	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  vell. 14,814,043 " II. 6,505,329 " ell. 1,042,535 " 6,486,258 " 4,361,656 " 3,190,000 " 41,509,444 "  DUSIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 " 24,060,224 "  DIAC.  1,913,781 sup. ft. 674,831 " 1,497,389 " 2,155,768 " 1,517,589 " 3,296,173 " 11,055,531 "  VILLE.  2,306,330 sup. ft. 2,205,974 " 2,839,285 " 3,196,555 " 10,361,892 "
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Oro. 3,204,623 sup ft. 1,905,000 "  vell. 14,814,043 " II. 6,505,329 " ell. 1,042,535 " 6,486,258 " 4,361,656 " 3,190,000 " 41,509,444 "  OUSIE.  6,969,452 sup. ft. 6,720,711 " 2,801,617 " 3,484,950 " 1,398,001 " 1,180,276 " 387,523 " 422,694 " 674,000 " 24,060,224 "  OIAC.  1,913,781 sup. ft. 674,831 " 1,497,389 " 2,155,768 " 1,517,589 " 3,296,173 " 11,055,531 "  VILLE.  2,306,330 sup. ft. 2,205,974 " 2,839,285 " 2,075,386 " 415,262 " 519,655 " 10,361,892 "  SLLTON.
1897 1898 1899 1900  Shippers.  J. Nelson Smith, Hillsboro W. M. MacKay, Hopew Geo. McKean, Hopewe Thos. W. Ford, Hopewe W. M. Mackay, Harvey Geo. McKean, Harvey.  C. J. Willis, Harvey  Total  DALHE Geo. Moffat & Co Ring Rros Price Bros. & Co Prescott Lumber Co Nath. McNair G. J. Vaughan Geo. Mottgomery Wm. Currie & Co Total  SHEI M. Wood & Son C. J. Willis & Co Geo. McKean B. J. Smith J. L. Black & Sons Total  SACKY M. Wood & Son C. J. Willis & Co J. & C. Hickman Geo. McKean J. L. Black & Sons Arthur B. Copp Total	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  00. 3,204,623 sup ft. 01.905,000 "  vell. 14,814,043 " 11. 65,505,329 "  vell. 1,042,535 " 04,866,258 " 04,361,656 " 03,190,000 " 041,509,444 "  00USIE.  6,969,452 sup. ft. 6,720,711 " 02,801,617 " 03,484,950 " 1,398,001 " 1,180,276 " 347,523 " 422,694 " 01AC. 1,913,781 sup. ft. 674,000 " 024,060,224 " 01AC. 1,913,781 sup. ft. 674,831 " 1,497,389 " 24,060,224 " 01AC. 1,913,781 sup. ft. 674,831 " 1,497,389 " 21,557,589 " 3,296,173 " 11,055,531 "  VILLE. 2,306,330 sup. ft. 2,839,285 " 2,1075,386 " 415,262 " 519,655 " 10,361,892 "  SLLTON.  10,864,106 sup. ft.
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  III. 6,505,339 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup, ft.  6,720,711 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  422,694 "  DIAC.  1,913,781 sup, ft.  674,000 "  24,060,224 "  DIAC.  1,913,781 sup, ft.  674,831 "  422,694 "  674,000 "  24,060,224 "  DIAC.  1,913,781 sup, ft.  674,831 "  1,497,389 "  2,155,768 "  1,517,589 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup, ft.  2,205,974 "  2,839,285 "  415,262 "  519,655 "  10,361,892 "  ELLTON.  10,864,106 sup, ft.  5,962,458 "  4,141,581 "
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 "  III. 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  422,694 "  DIAC.  1,913,781 sup. ft.  674,831 "  422,694 "  DIAC.  1,913,781 sup. ft.  674,831 "  424,060,224 "  DIAC.  1,913,781 sup. ft.  674,831 "  422,694 "  51,517,589 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  2,839,285 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  2,839,285 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  5,962,458 "  4,141,581 "  20,968,145 "
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Dro. 3,204,623 sup ft.  1,905,000 "  vell. 14,814,043 " II. 6,505,329 "  cell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  DUSIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  3,484,950 "  1,180,276 "  387,523 "  422,694 "  674,000 "  24,060,224 "  DIAC.  1,913,781 sup. ft.  674,831 "  674,939 "  21,155,768 "  1,517,589 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  3,393,285 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  3,839,285 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  3,191,655 "  10,361,892 "  ELLTON.  10,864,106 sup. ft.  5,962,458 "  4,141,581 "  20,968,145 "  SD BUCTOUCHE.
1897	244,399,066 9,454 92 184,954,343 6,636 95 184,192,435 5,859 131 236,459,838 5,851 71  New Brunswick Ports.  CTON.  Deals, scantling, ends and boards.  Oro. 3,204,623 sup ft.  1,905,000 "  rell. 14,814,043 " II. 6,505,329 "  rell. 1,042,535 "  6,486,258 "  4,361,656 "  3,190,000 "  41,509,444 "  OUSIE.  6,969,452 sup. ft.  6,720,711 "  2,801,617 "  3,484,950 "  1,398,001 "  1,180,276 "  3,484,950 "  1,398,001 "  1,180,276 "  387,523 "  422,694 "  674,000 "  24,060,224 "  OIAC.  1,913,781 sup. ft.  674,831 "  1,497,389 "  2,155,768 "  1,517,589 "  3,296,173 "  11,055,531 "  VILLE.  2,306,330 sup. ft.  2,205,974 "  2,839,285 "  3,196,555 "  10,361,892 "  SLLTON.  10,864,106 sup. ft.  5,962,458 "  411,261 "  SND BUCTOUCHE.  Ducto. 3,151,000 sup. ft.

Total... 4,462,000 "

N	7
BATHURST	•
W. M. Mackay	16,094,485 sup. ft.
P. G. Mahoney	2,574,618 "
TOTAL TRANS. ATLANTIC SHIPMES	
1900, COMPARED W — 1900 ~	/ITH 1899. -
Ports.	Sup. ft. deals, etc.
St. John	
Moneton { Hillsboro	******
Shediac	
Dalhousic	24,060,224
Campbellton Bathurst	18,669,103
Richibucto and Buctouche	
Total	,
1899	Sup. ft. deals,
Ports. St. John	eic. 184,192,435
Miramichi	128,802,030
Moncton Hopewell	
Shediae	10,411,578
Campbellton	18,146,988
Richibucto and Buctouche	9,285,900
Sackville	. 0.5_0
The trans-Atlantic shipments fr	
Brunswick for the past ten years	
Sup feet. 1891 253,000,000 18	Sup. feet. 96 386,000,000
	98 494,000,000
	99 426,000,000
SHIPMENTS FROM NOVA	• •
Ports.	Sup. ft. deals, etc.
Halifax	64,117,000 30,389,360
Pugwash Hubbard's Cove	21,467,780
Liscomb	5,39 ,909
Ship Harbor	7,247,063
Sheet HarborYarmouth	7,219,000
Mahone Bay Total	
DISTRIBUTION BY PORTS OF HA	
Ports.	Sup. ft. deals, etc.
Bristol Belfast	4,992,000
Cardiff	484,000
Dundalk	
GlasgowHull	3,238,000
LondonLiverpool	9,305,000
Manchester	4,320,000
Maryport	828,000
Penarth Roads	1,465,000
Swansea	2,520,000 2,678,000
Continent of Europe  Total	9,117,000
The shipments of deals from No	
ports for the past ten years were:	
1891 78,603,742 18 1892 87,861,398 18	96123,116,389 97185,362.562
1803109.255,930 18	98148,239,804 99128,009,504
1895109,324,393	00146,294,110
BRITISH COL	UMBIA.
	<del> </del>

A moderate local demand for lumber was experienced by the manufacturers of British Columbia during the year, although the consumption for domestic purposes was not as great as in 1899. There was less activity in building and mining operations and consequently a falling off in the demand for lumber. The Manitoba and eastern trade compared favorably with the previous year, a feature of eastern orders being the call for large timber. Unfortunately, however, the consumption in Manitoba and the Territories is still partially supplied by United States manufacturers, the Dominion Government having as yet taken no action towards placing a duty on the United States product. British Columbia manufacturers report that the difficulty of obtaining raw material is steadily increasing; loggers demanded higher prices for logs, which reduced the profits of manufacturers.

If the domestic trade was not all that could be expected, the loss in this respect was more than offset by the increase of cargo shipments to foreign countries. It was a banner year in the export lumber business, the shipments being greatly in excess of any previous year. The total value of the lumber shipped from the province by vessel was \$767,121, as compared with \$432,151 in 1899 and \$406,001 in 1898. These figures show an increase of more than 53 per cent. A still greater volume of export business would have been done but for the lack of tonnage, it being found almost impossible in some instances to effect charters. Freight rates ruled very high, 92 shillings being paid from Vancouver to a South African port; 82 shillings to the United Kingdom; 63 shillings to Melbourne, Australia, and 62 shillings to west coast of South America. The quantity of lumber exported to foreign countries was 76,208,087 feet. The following table shows the point of shipment, destination, and value of the various cargoes:

<b></b>	FROM CHEMAINUS		8
Vessel.	Destination	Feet.	Value.
Hawaiian Isles	Melbourne	1,929,442	\$ 19,317
Glenalvon	London	1,872,368	16,231
Renee Rickmers.	U. K	1,820,956	17,149
Peru	Cork	1,800,382	16,203
Nymphe	U. K	1,628,202	17,556
Arethusa	Havre	1,554,967	15,796
Drummuir	Meibourne	1,508,649	14,165
Fort George	Syaney	1,505,895	14,342
J. B. Thomas	Adelaide	1,443,465	13,337
Glenesslin	Cape Town	1,425,972	12,206
Marion Chilcott.	Adelaide	1,400,652	14,001
Emilie	U. K	1,393,217	13,360
St. David	Delagoa Bay	1,212,871	12,934
Victorius	Sydney	1,201,460	11,640
St. James	Melbourne	1,198,984	12,519
J. B. Brown	Sycney	1,187,731	11,753
James Drummond	Sydney	1,164,711	12,185
Creedmoor .	U. K.	1,156,540	12,095
Silo	U. K	1,156,308	12,979
J. B. Brown	Melbourne	1,136,690	11,674
Elwell	Cape Town	1,099,524	10,026
Rufus E. Wood.	Adelaide	1,090,304	11,495
Great Admiral	Sydney	1,066,218	6,315
Republic	Melbourne	898,813	8,993
Lyman D. Foster	Australia	887,130	7,761
Antofagasta	Antofagasta	800,454	8,400
Hesper	Melbourne	790,059	6,893
Admiral Tegetthof	Antofagasta	706,024	8,081
Transit	Sydney	617,561	6,175
James H. Bruce	Sydney	592,228	2,650
Wrestler	Melbourne	574,631	5,179
Defender	Fiji	465,724	5,600
Corona	Santa Rosalia	76,701	1,330
T-4-1.		-0 -6- 0	C

Totals		38,365,833	\$370,340
FROM VANCOUVER.			
Vessel.	Pesti etion.	Feet.	Value.
Paul Rickmers	London	2,503,827	\$ 22,252
Lindfield	London	1,724,895	22,585
Bandani a	U. K	1,580,925	20,374
Wilhelp le.	South Africa	1,379,305	12,102
Star of 1 ce.	Sydney	1,180,293	10,240
Pallas.	Callais	1,141,275	17,174
Louisiana	Melbourne	1,109,949	9,665
Errol	U. K	1,069,195	9,099
Caesarea	U. K.,	1,031,450	9,200
Guy C. Goss	Philadelphia	1,030,625	16,861
Lakemba	Iquique	890,958	S, 166
Chas. F. Crocker	Sydney	880,405	8,762
Ivy	Shanghai	857,713	9,950
Atalanta	Callao	831,236	8,513
Fred J. Wood	Kobe.	786,205	8,923
Sonoma	Melbourne	720,732	6,794
Arnold	Newcastle, Eng.	632,617	10,516
Tartar	Hongkong	449,002	7,085
John D. Tallant	Guayaquil	327,995	6,400

Totals..... 20,138,612 \$224,661

	FROM MOODYVILL	.K.	
Yeuel.	Destination.	Peet.	Value.
Falls of Garry	Sydney	1,655,847	\$ 14,390
William H. Smith	Sydney	1,508,365	14,070
Marie.	London	1,312,375	13,611
Nixe	London	1,297,438	11,677
Sea King	Sydney	1,107,485	10,033
Adderly	Sydney	1,080,349	10,038
Senator	Callao	1,074,518	10,139
Altenr	Callao	992,307	9,090
Thistle	Fremantle	942,943	8,515
Condor	West Coast	892,658	9,018
Latona	Valparaiso	788,359	6,571
Bertha	Valparaiso	673,333	6,196
Rose	Geraldton	613,217	6,282
Garibaldı	Callao	410,075	
Elena.	Callao	351,198	3,301
Totals		14,700,467	\$132,931

#### FROM ESQUIMALT, PORT MOODY, COWICHAN, NEW WESTMINSTER AND VICTORIA.

Vesse'.	Destina i n	Feet	Value.
Onaway	Adelaide	687,353	\$ 6,900
John Smith	Nagasaki	673,447	10,987
Defiance	Sydney	659,003	2,240
Ellzabeth Nicholse	m, Shanghai	638,653	6,678
Expansion	Santa Rosalia .	132,011	2,681
Defiance	Santa Rosalia .	120,133	3,000
Olympia	Japan	63,975	1,275
Fred J. Wood	Santa Rosalia	14,440	3,178
A. J. West	Santa Rosalia .	14,160	2,250
Totals		3,003,175	\$ 39,189

The value of shipments to the different countries in comparison with the previous year is shown below:

•	1[9]	19 0.
Australia	\$152,329	\$298,323
United Kingdo a		222,887
South America	52,621	83,875
South Africa	58,563	47,268
China	113,348	23,713
Japan	24,284	21,185
United States	17,000	16,861
France		32,970
British India	29,306	
Fiji Islands		5,600
Mexico	. •	12,439
Totals	\$432,151	\$767,121

It will be observed that the shipments to China show a large falling off, while increased shipments were made to South America, Australia, and the United Kingdom. Those to Australia were approximately 32,000,000 feet, or double the previous year, and to the United Kingdom there were shipped 21,000,000 feet, as against no exports to that country in 1899. Notwithstanding the war in South Africa, the lumber shipments to that country show but a slight decrease. South America took about 9,000,000 feet

Seventy-six vessels were employed in carrying the lumber. Of these, 33 loaded at Chemainus, 19 at Vancouver, 15 at Moodyville and 9 at New Westminster. Below is given a summary showing the gain of each port:

From	1977 Lumber, F.	1899. Lember Ft.	Per Ce U
Chemainus	38,365,833 20,138,612	24,952,042	
Moodyville	14,700,467	12,553,087 9,615,655	52.9
Esquimalt, etc	3,003,175	2,620,180	14.6
Totals	. 76, 208, 087	49,740,964	53.2

British Columbia shingles were in fair demand throughout the year, but the production is too great for the limited market, and steps were taken towards the close of the year to curtail the output. The volume of business with eastern jobbers was about the same as in 1899. Towards the fall there was a slight weakness in the market, although few sales were made below the regular price list.

The outlook for 1900 is not altogether promising. The export demand is expected to keep up, but as the Government has discontinued the rebate on timber exported from the province there will be a smaller margin of profit in this

branch of the industry. The pe of the lunder men of the province is that ernment will impose a duration on United States.

Dominion General and Canadian by the Canadian by th

#### MANITOB .

There was considerable actuaty in the facture of lumber in Manitob. and the Territion in 1900, although the bulk of the consumption in these provinces is imported. The reported Department of Interior for the year ending je 30th last states that in Manroba the saw 2 were run to their fullest capacity, the outputs ing about 24,000,000 feet b.m., an increase 4,000,000 over the previous year. The outrain the Territories was 13,510,287 feet b.m., inch railway belt in British Columbia 29,684,003 km b.m., and in the Yukon Territory about 9,000,00 feet b.m. In addition to the lumber sold by mil owners in Manitoba, it is reported that no le than 132,669,083 feet of lumber was self Manitoba and at points as far west as Regin the bulk of which came from the mills at labe the Woods and Rainy River. Although h shipments from the United States still continuous large, there has been a falling-off as compan The number of is with last year's business. ber berths under license in Manitoba and in Territories is 171.

The anticipations of lumber dealers that a year would witness an exceptionally good a mand for lumber was not altogether realized The market after midsummer was inclined to quiet, and the practice of cutting prices was a dulged in to some extent, thus reducing the profits of the business. The prospects for the case ing season are of a satisfactory character, to hope of increased building operations in his peg and the provincial towns being a fact of feature.

#### ANOTHER FOREST RESERVE.

THE Ontario government has announced a creation of a forest reserve in the vicinity of the Temagami. The reserve embraces about the square miles of territory, equal to 1,4000 acres, surrounding Lakes Temagami and the Evelyn. The location of these lakes is the west of the Upper Ottawa river, in the district Nipissing. It is proposed by this reservation preserve the head waters of the chief river the Nipissing district; the timber on these best will also be preserved intact, and the nature that their abides will also have a safe resignate.

Until the government see fit to grant spin permission, no one will be allowed to cut the on this area, although there are said to be the on 5,000,000,000 feet of white pine. If, he ever, permission should be granted to cet timber, part of the plan will be to refores the cut over in order to keep a succession of king growths in the reserve. Rangers will be pointed to take precaution against the spratfire.

There were previously in existence in 0221 two smaller forest reserves, the in the for Addington and Frontenac counties, contains 80,000 acres, and the other on the point discending in Thunder Bay, Lake Superior, containing 45,000 acres.

#### AXE AND

Our readers will articulars of the are held annually i. ng to the Austral rought about the

#### W COMPETITIONS.

doubt be interested in some and saw competitions which asmania, an Island belonga federation. It will be Reessary first to r to the conditions which contests. The majority of habitants are eith settlers cutting out homes themselves, or a calearning a living by felling

these were sharpened to correct pitch prior to the day of the contest. The result was that a victory was gained for English axes by three points. Not so with the saws. Three American saw manufacturers and one English manufacturer entered, but the latter failed to come to the starting point and the award was given to the Atkins' saws, with the Simonds' saws second.

The above particulars and the accompanying



Fig. 1.—The Championship Match—Lying Blocks...

timber for saw mills, by splitting timber into post rails or palings, or by felling the scrubs by contract for the more wealthy class of settlers who are making clearings in the forests. of the settlers have but little education. best loved weapon is the axe. From their desire to excel in their work arose the Australasian Axemen's Association, formed for the purpose of demonstrating the skill to which the settlers in the colonies have attained with the axe and saw. Since June, 1891, annual contests have been held. The ninth of these was held last year.

For the championship of the world in standing block chopping, i.e., logs placed just as though the trees were still growing, there were about a dozen contenants, and the blocks were of strings bark, freshly cut, and trimmed to exactly 6 feet unches girth, the work of cutting being accomplished by the winner in 4 minutes and  $8\frac{1}{4}$ seconds.

A second event was the underhand championship chop, i.e., chopping through a log 6 feet 4 inches in girth whilst it was in a lying position such as is occupied by a tree when it has been felled. Another interesting event was the championship sawing match, the men to cut through a similar sized log, 6 feet 4 inches. This was accomplished by the winner in the marvellously quick time of 1 minute 49 seconds. In the double handed sawing match, one man on each end of saw, a log 2 inches in diameter was cut through

The most interesting features of the competition were the contests in axes and saws by international teams. These contests were inaugurated for the purpose of giving the manufacturers of Great Britain an opportunity to prove to the world that they could produce axes and saws equal to the tools made by the Americans, the latter having practically monopolized the trade of Australia in lateyears. The winning manufacturer in each case was to receive a gold medal. Each manufacturer who entered sent in his lot of axes or saws, and illustrations are taken from the Chicago Hardwood Record.

#### MERITS OF DIFFERENT SAWS.

The following opinions regarding the merits of different saws came to hand after our January number had gone to prese:

NANAIMO, B.C., Dec. 24th. - My views on the relative merits of the circular, band and gang saws are as follows: The circular will get out more tunber into the several kinds that the log is suited for, and with less care, but more waste, than the band. The band takes thickness, making the lumber more even in thickness than the band or circular saws. But I prefer the band saw for cutting 4" and up in thickness or dimension timber of any size, owing to the small waste in saw-dust. The twm circulars I consider the best-for slabbing small logs, but for no other sawing, as the waste in saw-dust is too great. The band saws cannot be beaten for getting the most good lumber out of a log.

RAT PORTAGE, Jan. 1st .- There is, as you know, much difference of opinion concerning saw mill machinery, and especially with regard to the different kinds of saws which should be used. I have arrived at the conclusion, after twenty years experience, that circular saws are a thing of the past, especially where logs are worth seven dollars per thousand or upwards; the waste in sawdust is altogether too great to allow of their being used successfully in competition with band saws. The band saw under all circumstances reduces the waste to about one-third, and where two-way cutting band saws are used the capacity of the band saw is greater than that of the circular, with very little extra expense for the running of it. Gang saws can be used successfully where mills of large capacity are required; for example, where a capacity of one hundred thousand feet of lumber per day or upwards is required, a gang may be used in connection with one or two band saws, but where smaller mills answer the requirements, I should say a band saw or a band saw and a band re-saw should be used. With a two-way cutting band unll and band re-saw workedin connection with it, nearly one hundred thousand feet of lumber per day can be produced with the greatest economy both as to labor and saving of the log, owing to the thinness of the plate of the band saw.

D. C. CAMERON.

Manager Rat Portage Lumber Co.

#### GRAPHITE AS A LUBRICANT.

GRAPHITE is a good lubricant when it can be placed and kept where it is needed. A shaft running in a graphite bushing is perfectly lubricated, and needs no oil or grease. Such a shaft will also run with very little friction. But, in ordinary bearings, the problem with graphite is to place it where the friction is. When oil is used, it will insinuate itself into a pretty small place between the bearing surfaces, and will flow readily through long and



Fig. 2:-THE SAWING MATCH IN FULL SWING.

less power and less kerf than the circular and has the same advantage that the circular has for picking lumber of different sizes and qualities out of the same log. It requires more care, but when filers become impressed with the fact that the mill will work even if they quit, the band will be the mill of the future. For quality and quantity without regard to the suitability of the log for the lumber cut, the gang takes the lead.

OTTAWA, ONT., Jan. 5th.-My experience goes to show that the gang or Wickes gate is the most desirable for the cutting of all kinds of lumber say 3" and under in crooked passages. With graphite, on the other hand, there is a pretty big problem as to how the stuff is to be gotten into a bearing. A powdered material cannot be made to flow like oil, no matter how it is tried, and there seems to be no means of using graphite except by mixing it with a liquid that shall act as a vehicle for the powdered material. By doing this the object of using graphite is largely lost sight of, for oil has to be used in the bearings as before. Before graphite will displace lubricating oil, there will have to be devised some means of blowing the substance into the bearings, and of keeping it there when once in the right place. When that is done, all hail to graphite.

#### THE

### Ganada Lumberman

MONTALY AND WEEKLY EDITIONS

PUBLISHED BY

#### The C. H. Mortimer Publishing Company of Toronto, Limited

CONFEDERATION LIFE BUILDING, TGRONTC

BRANCH OFFICE: IMPERIAL BUILDING, MONTREAL

The LUMBERHAN Weekly Edition is published every Wednesday, and the Monthly Edition on the 1st day of every month.

#### TERMS OF SUBSCRIPTION:

One Copy, Weekly and Monthly, One Year, in advance...... \$1.00 One Copy, Weekly and Monthly, Six Months, in advance.... .50 Foreign Subscriptions, \$2.00 a Year.

ADVERTISING RATES FURNISHED ON APPLICATION

THE CANADA LUMERRHAN is published in the interests of the lumber trade and allied industries throughout the Dominion, being the obly representative in Car..da of this foremost branch of the commerce of this country. It aims at giving full and timely information on all subjects touchin. these interests, discussing these topics editorially and inviting fr e discu sion by others.

fr e discu aton by others.

Especial pains are taken to secure the latest an? most trustworthy mare ket quotations fr m various joints throughout the w rld, so as to afford to the trave in Canada i formation an which it can rely in its operations.

Srecial correspondents in l-calities of importance p esent an accurato report n t only of prices and the rondition of the m.rk t, but also of other matters specially interesting to our readers. But correspondence is not only welcome, but is invited from all who have any information to communicate or subjects to discussivatelating to their ade or in anyway affecting it. Even a bea we may not be able to agree with the writers, we will give them a fair opportunity for free discussion as the less timeans of eliciting the truth. Any items of inter at are tarticularly requested, for even if not or great importance individually they contribute to a fund of information from which general results are obtained.

Adventisers will receive careful attention and libral treatment. We

from which general results are obtained.

Alventisers will receive careful attention and liberal treatment. We need not point out that for many the Canada Lumberman, with its special class of readers, is not only an exceptionally good medium for securing publicity, but is indispensable for those who would bring themselves before the notice of that class. Special attention is directed to "Wanted" and "For Salia" advertisements, which will be inserted in a conspicuous position at the uniform price of 15 cents per line for each insertion. Announcements of this character will be subject to a discount of 25 per cent, it ordered for four successive issues or longer.

Eubscribers will find the small amount they pay for the Canada Lumbergramman quite insignificant as compared with its value to them. There is not an individual in the trade, or specially interested in it, who should not be on our list, thus obtaining the present benefit and aiding and encouraging us to render it even more complete.

#### CANADIAN FORESTRY EXHIBIT AT THE GLASGOW EXHIBITION.

THE Canadian forestry exhibit at the Paris Exposition was one that did credit to Canada and to the Exposition commissioners under whose instructions it was got togéther, but it is understood that a larger and more complete exhibit will be sent to the Glasgow Exhibition, which is to open on May 1st of this year and continue until November. Everything that was shown at Paris, with the exception of a few manufactured articles which will be replaced by new material, will be on view at Glasgow, and an effort is being made by the Minister of Agriculture to secure additional material from Canadian producers and manufacturers.

The value of such exhibitions cannot be overestimated, and none of the objections made by manufacturers to exhibiting at Paris apply to Glasgow. Users of wood and articles manufactured from wood from all parts of the world will visit the exhibition, and Canadians who are interested in the manufacture of wood products can find no better advertisement for their products than will be afforded by this exhibition.

It is noteworthy that the international exhibition held at Glasgow in 1888 was attended by over six millions of people. It is only reasonable to suppose that at the forthcoming exhibition this number will be exceeded. The international character of the exhibition can best be shown by giving the names of the countries whose official support has been secured, in addition to the exhibits of the United Kingdom. They are:

Russia, Denmark, France, India, Australia, Japan, Morocco, Queensland, Mexico, British South Africa, Persia, South Australia and Canada. Canada is to have a special building, covering about 12,000 square feet, wherein to make exhibits.

#### MEANING OF BRITISH TERMS.

Two terms in general use in the British timber trade ate "f. o. b." and "c. i. f." The former is commonly used in this country, meaning, of course, the delivery of goods on board a ship, car or other appointed place. The latter term is seldom made use of by the lumber trade of Canada, excepting by shippers to foreign countries. We have occasionally been asked to give the meaning of the term, and our explanation has been that a contract made on a "c. i. f." basis would provide for the delivery of the goods at the port named, the costs of the merchandise in the country to which it is exported, treight to port of unloading, and in urance being paid. To illustrate, we will assume that an importer in Lon\_ don, England, enters into a contract with a Quebec shipper to supply a cargo of lumber at a certain price c. i. f. London. The shipper, therefore, becomes responsible for the delivery of the goods at that port, and for the payment of all costs, freight and insurance until that time.

Notwithstanding that this term has been in use many years by British timber merchants, there still seems to exist some ambiguity of meanin, as well as regarding the obligations which it places upon sellers and buyers. This is illustrated by a recent occurrence. A Manchester merchant purchased a quantity of goods in Calcutta, to be shipped to Larnaca, in Cyprus, the contract stating that cost, freight and insurance was to be borne by the shippers. Owing to the plague in India the authorities at Port Said. goods were to have been where the transferred to a steamer for Larnaca, would not allow them to be landed, and they were taken to London. They were put on board a steamer for the East Mediterranean, and after some further difficulties and a second trans-shipment reached their destination. The question naturally arose as to who should bear the extra cost of freight incurred by the incidents above mentioned. The seller contended that having put the goods on board at Calcutta in good condition and paid the insurance premium and freight to the proper destination, his responsibility ceased. The buyer, on the other hand, held that the acceptance of the c. i. f. terms imposed upon the shipper the responsibility of assuming all the actual expense incurred to the port of destination. The dispute was referred to arbitration, and the award was finally given in favor of the shipper, thus making it incumbent upon the buyer to assume the extra expense.

The decision in this case has not been generally accepted by the timber trade, many of whom are strongly of the opinion that the shipper, in agreeing on the c.i.f. terms, accepts the responsibility of just such accidents as the one in question. The difficulty was encountered before the shipper had finally completed his contract, and it would seem unfair to place the responsibility upon the importer, who, according to the contract, does not come into possession of the goods until delivered at the port called for.

THE PRESERVATION OF CANADIAN FORD

Until recently it could truly be saidther steps had been taken to preserve the for supply of the Dominion. The Federal Gorn ment apparently had not recognized the norm of providing for future needs in this respect, of the Provincial Governments, only that Ontario had shown a proper recognition de The recent action of the Out subject. Government in creating a fores reserve of 1,40 ooo acres in the vicinity of lake Temagen but following up the commendable policy establishing such reserves which was inaugura a few years ago.

It is a source of satisfaction to learn that the Dominion Government has now under consider tion the adoption of a system of forestry, & that an effort is to be made to provide an angle timber supply for Manitoba and the Temiton It is not generally known, as pointed out byte Dominion Superintendent of Forestry at a me ing in Toronto recently, that there are in & North-west, north of the prairie region, 1,18, 000 square miles of timber lands under the co trol of the Dominion Government. This is larger area than the combined territories of 0. tario, Quebec, Nova Scotia, Prince Educi Island, Manitoba and British Colombia of course much of this territory is north of the height of land, and as the streams flow north ward, the timber thereon can only be made and able by the construction of railways. Neverthe less, these forests are an asset of great rate and should as far as possible be preserved free

In the preservation of her timber Cama should profit by the experience of the older contries of Europe. Germany and France were among the first to apply scientific forestry, h 1740 Frederick the Great promulgated laws to gulating the cutting of timber in Germany. He established rotations of seventy years, and and prescribed methods of thinning so that the year and healthy growth of trees would be better go tected. He established forests under the ared wardens, forbade private owners on wastel cutting, and placed under the care of the State portion of the forests in Silesia. Let with the precautions, established at such an early day we find that in 1899 Germany imported 36,000. 000 cubic feet of timber, and forestry expens admit that the Empire will never be in a positor to supply her own market.

The total area of state forests in Francis 2,700,000 acres, which yield annually to the state a total of 96, 100,000 . ibic feet of timber, equivalent to nearly 46 cubic feet per acre d productive forest. The gross annual incomes £1,100,000, or about 10 shillings 6 pence perace The high trees are cut down at periods ranges from 120 to 150 years, the work being directed in a way that will insure natural re-forestation from the seeds that fall from the standing trex.

Great Britain, as is generally known, ps sesses no forests of any account. This is will demonstrated by the fact that last year here portations of hewn and sawn timber, not indiing manufactures of wood, reached in value \$125,000,000.

The United States has of late made marked advancement along the line of forestry, having established several important reserves. A bill's now before Congress providing for the purchase 000,000 acres of torest land in the States of inia, North and south Carolina, Georgia, and Tennes ee, and appropriating five on dollars for the purpose. The reserves it is the carolina to the purpose in the northern restern States.

the setting apart of forest reserves and the ption of a system of scientific forestry are stions which should at once be taken up by pominion and Previncial Governments. The posal to establish a forestry department in action with one or two of the leading unisities of the country is a step in the right stien.

#### EDITORIAL NOTES.

tis not unlikely that the Dominion Governstwill be petitioned to remove the duty on berage stock coming into Canada from the ted States. This duty is 25 per cent. on aufactured stock cooperage material in the gn being admitted free. The reason for this nement is claimed to be that the Canadian nulacturers of cooperage stock are unable to ply the local demand, and that it has been essary to import considerable material from ted States. It is by no means certain et the government would accede to this request asked to do so, as while it would result to the hantage of one or two large Canadian firms o have mills across the border, it might nously affect the smaller producers of cooperestock in Canada. It is at least fair to point t that such action is under consideration, and gie all who are likely to be affected an oppormit to place their views before the Govern-

Is the past more or less reliable estimates have enmade of the quantity of pine timber standing othe Crown lands of Ontario. The provincial simate of 1893 showed the quantity to be 26,-0,000,000 feet, of which 10,000,000,000 feet were electicense. The territory explored for the purescof this estimate did not include a large tract of contrinerth of the height of land. Of the other brieties of timber owned by the Crown no estithe has ever been made. The necessity of securgamore accurate statement of the Crown timber as been felt by the Government of the province prseme time. It was recently decided to make uplorations with a view to securing the necessary Esta and accompanying maps, showing the quantyand location of both pine and spruce timber, belatter now having a merchantable value that t did not possess at the time previous estimates reme made—due to the growth of the pulp indusrr in Canada. It is hoped that the plan of the Government will include also the collection of data exeming the hardwoods of the province. It squite a common thing to receive inquiries regarding the location of hardwood timber of certain varieties, but the imformation which it has been possible to impart has been a very uncertain chracter. If more accurate data were available st would greatly assist the Evelopment of the cardwood industry.

#### VESTERN PETAIL LUMBERMEN'S ASSO-CIATION.

Abborgh the date has not been definitely arranged, it serpected that the annual meeting of the Western Retail lumbermen's Association will be held in the city of Winnipeg on or about February 16th. Mr. Henry Byrnes, of Winnipeg, is president of the Association.

#### THE CULTIVATION OF FORESTS.

An Important Meeting in Toronto. Interesting Addresses and Valuable Suggestions Regarding Tree Planting.

A meeting under the joint auspices of the Canadian Institute and the Canadian Forestry Association was held in the Canadian Institute, Toronto, on Saturday evening, January 12th. The meeting was very largely attended by members of the Institute and persons specially interested in the subject of forestry. Mr. James Bain, jr., presided, and after a few opening remarks called upon Mr. E. Stewart, Superintendent of Forestry for the Dominion, to give an address. His remarks in full are given below:

FORESTRY AS IT RELATES TO LANDS UNDER THE CONTROL OF THE DOMINION GOVERNMENT.

By E. STEWART, Dem rien Superintendert of Forestry.

In the few remarks that I shall make I purpose confining myself to forestry as it relates to Dominion territory as distinct from that of those Provinces which control their own land and the timber growing thereon.

According to the agreement entered into at the time of Confederation, each of the Provinces, namely, Ontario, Quebec, Nova Scotia and New Brunswick, retained the ownership of any ungranted lands within its limits, and when Prince Edward Island and British Columbia subsequently came in they did so on the same conditions. Shortly after the union the Federal Government became possessed of the Hudson's Bay Territory, a district of vast extent in the interior of the Continent, which now forms the Province of Manitoba and the North-West Territories, the latter being now divided into a number of territorial districts. Subsequent to this the Province of British Columbia handed over to the Dominion as her contribution for the building of the Canadian Pacific Railway through the Province, a tract of 20,000 square miles of great value for its timber along the line of the railway. This tract is forty miles in width each side of the track. So that the territory of which the Dominion was first owner embraced these great areas, with the exception of a small percentage retained by the Hudson's Bay Company, and though the aggregate of land and timber that has so far been granted by the Crown to private parties, corporations, etc., is very considerable, yet in a relative sense it is a mere trifle as compared with the total area.

Let us endeavor to obtain some idea of the total area of this territory. I shall first give a few figures which must be taken as only approximately correct, though it is believed that the errors will be in under-estimating, not in over-estimating, both the area of the land and the timber thereon. The total area of Dominion lands, including that owned by the Hudson's Bay Company and that of the railway belt in British Columbia, is estimated at 2,456,500 square miles. The total area of the five Eastern Provinces and British Columbia, less the railway belt, is 860,000 square miles. That is, the total area of the territory under Dominion control is about three times that which is owned and controlled by the Provinces.

But our subject is confined to the timber and not necessarily to the extent of land that either the Dominion or the Provinces possess, and it will be said that masmuch as we have included both the praine lands of the Dominion and the barren treeless areas of the far north in our calculation, it is of no value for our purpose. This is true enough, and we must now attempt to ascertain as nearly as possible the extent of that land which is not timbered and deduct the same from the total area.

The general impression of those whose only information is derived from a trip across the Continent on the Canadian Pacific Railway will be that most of the North-West consists of prairie land, and that after leaving Ontario on the east till we reach British Columbia on the west, there is no timber worthy of notice. Now, this is not incorrect so far as the country through which the railway runs is concerned, but we must remember that this railway traverses the full length of the prairie section of the country. If, however, the traveller, instead of continuing straight on along that line, would at almost any point within this prairie section turn at right angles and go north, he would not be able to proceed more than two hundred or three hundred miles at most from the

United States boundary before he would have left the prairie behind and entered what is known as our great northern or sub-arctic forest belt, which extends from there far north to the limit of tree growth.

This prame section may be roughly estimated at 250,000 square miles, and the treeless land of the far north at 1,000,000 square miles; and this taken from the total of 2,436,000 square miles will leave 1,186,000 square miles as the area of the timbered lands, or over 300,000 square miles more than the total area, both cleared and timbered, contained in the six Provinces above referred to.

It must not be inferred that this immense tract is a solid forest, but what is not covered by lakes or streams on the one hand, or is not too mountainous on the other, will be properly classed as wooded country, the prevailing species of the northern belt being the white and black spruce, tamarae, balsam fir, Banksian pine, poplar and birch. Of these the spruces are the most widely distributed, and considering the great number of uses to which wood pulp is now being applied, and that spruce is of all varieties the one best adapted for that purpose, it seems very probable that this tumber will in the future take the place so long held by the white ping,in this country as the chief variety sought after by the lumbermen. It should be borne in mind that a large part of this wooded area of the north is better fitted for the growth of timber than for any other purpose.

There is no one who has ever travelled through the woods of the Provinces of Quebec and Ontario, or in fact any of the Canadian provinces or territories, who has not been impressed with the immense destruction that has resulted in forest fires. It is not an extravagant estimate, but well within the mark, to place the proportion of pine trees destroyed by fire as compared with those cut by the lumbermen as ten to one, while the value of the timber which has thus gone up in smoke would be more than sufficient to pay our national debt. And this destruction will continue to render barren and worthless a large portion of that vast area above referred to as under the control of the Federal Government unless very great care and attention is bestowed on its preservation. In fact, the conditions existing in the northern region are such as to render forest fires most destructive. A large part of the country is rock with scarcely any soil covering, but covered with moss and also hanging from the branches of the coniferous trees are thick bunches of moss. In a dry time every particle of moisture is evaporated from the forest floor, the moss on the rocks and also that on the trees is as dry as tinder, while the gum on the trees helps to make a more lasting fire. With such conditions it is not difficult to imagine the immense destruction produced when a fire gets started in these woods. Now the question is, can anything be done to stop or even lessen the destruction from this cause.

The Royal Commission on Forestry in Ontario, appointed in 1897, in their reports say.

"While there have been even within recent years extensive and devastating fires, destroying large amounts of timber, the saving to the province effected by the system of fire-ranging adopted in 1886 has nevertheless been very great. During the course of their investigations, your commissioners had brought to their notice a great many instances in which incipient fires, that unchecked would have been disastious in their consequences, were successfully fought and suppressed by the rangers.

"Wherever the system has been employed by the various limit-holders, the results have been very marked. It is to be noted, however, that as the employment of fire-rangers is optional with limit-holders, some of them have failed to take advantage of the system, at the risk not only of their own limits but of those of their neighbors in addition.

Again in the Interior report we find the following:

"All unregulated fires must be strictly guarded against and prohibited. Every acre of forest lands under license, and all government lands in their immediate vicinity, or wherever prospectors or tourists are allowed to go, should be under the supervision of competent fire rangers, strictly under government control, and clothed with full power to call to their aid needful assistance to extinguish fires."

"Young growing trees too small to cut profitably and often neglected by licensees as of no value, should be zealously guarded as the source of future wealth, and all isolated pine trees or small groups of trees still living after a fire has passed over a district, should be taken care of as the parents of future forests."

Mr. W. C. Edwards, one of the leading lumbermen of

the Ottawa Valley, writes as follows: "Imperfect though the system of fire protection now in vogue in the Provinces of Ontario and Quebec may be, at the same time the result has been the saving of millions of dollars worth of timber to these provinces. Previous to the employment of fire rangers in the Province of Quebec, annual serious fires took place in the Ottawa region, destroying enormous quantities of timber. Since the adoption of the fire ranging system, there has not been, so far as I am aware, one very serious fire."

I may say that within the past year a system of forest fire guarding has been undertaken by the Dominion Government, differing in some respects from that adopted by the province, but it is believed that it is one well adapted for the purpose, and so far seems to work well. The plan is as follows: Forest fire rangers are selected from men residing in or near the district where they are to be employed. They are notified that they will be under the direction usually of the crown timber agent, regular forest ranger or homestead inspector for the land agency in which they are employed. When this supervising officer considers their services are required he notifies them to commence work, furnishes them with a copy of the Fire Act, a copy of general instructions defining their duties, and also with notices, for posting up and distributing warning, the public against the careless use of fire. Where horses can be used they are to supply themselves with them. Their remuneration in such case is \$3 per diem, which includes expenses for both man and horse. When the supervising officer considers it unnecessary for the ranger to continue the work he recalls him and instructs him to make out his account, which the former certifies to as correct, and on forwarding the same tothe department with a diary detailing how he was employed each day, the account is paid. By this system the ranger is employed only when his services are considered necessary, and in case the season is very wet he may not be employed during the whole season. Where there are timber limits under license within the area guarded the holders pay a proportionate amount of the cost, but the greater part of the country is still held by the crown and consequently the government bears the larger part of the cost of guarding it.

There is another point in this connection that properly belongs to the forestry branch which I desire briefly to notice. The country should be explored in advance of settlement, and such portions as are unsuited for agriculture, but which are adapted for the growth of timber, should be permanently set apart for that purpose and not even surveyed into farm lots. Again, as one of the great uses of the forest at the sources of rivers and streams is to hold back and regulate the even flow of the water much in the same way as a reservoir does for towns having a waterworks system, in no case should these districts be denuded of their forest covering, but retained for this, if for no other purpose.

Another duty devolving on those having charge of the forests is to regulate the cutting of the timber on tracts set apart for timber purposes. There is no reason why the element of growth should be disregarded, or why by a proper system of cutting a continuous supply should not be maintained, provided the fire can be kept out of the woods. The indiscriminate cutting of the young sapplings struggling to attain a sufficient size when they would be of value is a sin against nature and a crime against the community that should not be tolerated.

But I have dealt with only that portion of the subject that related to those districts on which there is a natural growth of timber, and I wish very briefly to refer to those areas of the North-West which are now devoid of tree growth, to those treeless plains where the many comforts and advantages which trees afford do not exist.

As this phase of the subject will be dealt upon by others well qualified to deal with it, I shall refer only to one or two points in connection with it. It is admitted by everyone that it would be of the greatest benefit to the prairie settler to have wind breaks and shelter belts of trees on his homestead. I will grant that there is a peculiar charm in viewing those great undulating meadows, especially when they are covered with flowers in the spring time, but there is also a dreary monotony akin to melancholy which becomes oppressive when its novelty is gone. The silence is unbroken. The old familiar bird songs are not there to cheer the pioneer settler in his oneliness, but instead he is oppressed with the almost constant wind which has no obstacle to break its force. In summer the cool shade which our woods afford, and in

winter the protection they render, are both denied to him. The advantages that belts of timber growing on the homestead confer on the prairie farmer are various. In addition to the beauty they bestow on the landscape and the comfort they afford to the settlers, they are of direct value in the shelter they provide for both man and beast, decreasing the quantity of fuel used in the dwellings in the winter and the amount of feed necessary for the stock. windbreaks they prevent the snow from drifting off the fields, leaving them so dry in spring as to be unable to withstand that scourge which the western farmer fears more than any other, the summer drouth. And this is not all; they are also a protection against the destructive dry, hot winds that blow so frequently over those parched Mr. S. A. Bedford, plains during the summer season. superintendent of the Experimental Farm at Brandon, in one of his reports says: "The last week of May and June were noticeable for very low temperatures and high windstorms which were very disastrous to the crop in ex-The benefits of hedges and shelter posed situations. belts are very clearly demonstrated at this time. grain growing on portions of the farm protected ever so slightly by a hedge or breakwind escaped injury from drifting soil, and when this was followed by severe frost the unbruised plants in the protected areas were not frozen, while the exposed grain was in many instances completely killed."

Our various governments have long recognized the wisdom of assisting the agriculturist, and it is believed that the whole aspect of our prairie country may be changed by the co-operation of the government with the farmers. It is beyond doubt that where grain can be raised, there also some varieties of forest trees can be successfully grown, and I may be permitted to state that it is expected that during the coming season a regular system of afforestation will be commenced by which the government will endeavor to do its part in co-operation with the set ters to bring about the desired results.

One feature of this work will be the instruction of the people regarding tree planting. It is well known that careless planting and want of attention after planting are frequently the cause of failure in growing trees, not only on the plains but nearer home, and I would like to make just one suggestion here, and that is that more attention might be profitably given to the subject of forestry in the schools of the country.

Now, it may be asked why we should come to the city of Toronto to discuss the forestry problem. You say it may be of interest to the lumberman or to the prairie farmer, but what interest can the towns and cities of Ontario have in the subject.

My reply to this is that there is no citizen of Canada, no matter whether he reside in the rural or urban districts. who should not be interested in the forestry of the country. It is well known that this province derives a very large proportion of its revenue from the timber growing on its public domain. So as citizens of the province you are directly interested in the management of the forests on the Crown lands of the province. Again, as previously pointed out, as citizens of Canada you are the possessors of vast forest wealth in the ungranted lands of the Dominion, but more than this, if you will but take a glance at the countries of the old world you will find that many large districts owe their decline to the ruthless destructions of their forests. The effects of over-denudation of the forests even in Ontario is now witnessed almost every spring in the disastrous floods that occur and which are becoming annually more and more frequent and destruc-

In the countries of Southern Europe bordering on the Mediterranean, in Spain, Italy, Greece, Turkey, and also in Northern Africa, there are large areas of barren waste, which in the middle ages were fruitful, cultivated valleys. This has been caused by the destruction of the forests and the consequent drying up of the country. So great is the influence of the forest that several writers attribute the decline of many of the nations of the earth to the aridity of the land, brought about by the wholesale depletion of the forests.

When all this is considered, I think we may ask you to urge your representatives in parliament to use their in fluence to promote a judicious system for the protection and management of the existing forests and for the encouragement of tree planting wherever such is desirable.

I may say in conclusion that within the past year, in order that those who felt an interest in this subject might most effectually exert their influence, a Canadian Forestry Association has been formed and . toing most work, and I would commend it to . . u as worth membership.

Prof. John Macoun, of the reological of Ottawa, who has for many rears been observer of forestry princip s, was the speaker. He opened his remarks by relating incident which occurred sixteen years ago he was invited to Rideau Hand by Lord downe, then Governor-Generan. Being the His Excellency what was the enief occipal Canadians, he replied that it was the destrof our forests. At that time, he said; this to be the sole aim of the people, but cook have changed. Prof. Macoun spoke extenditure with the prepared, and which may differ in detail for remarks of the speaker:

ON CLIMATIC CONDITIONS IN MANITOBA AND THE R WEST TERRITORIES, WITH SPECIAL REFERDOR
TO REFORESTING.

By Prof. John Macoun.

Three factors are always necessary in success growth or culture. These are heat, moisture addit Winter cold is injurious and in many cases is an able barrier to success, but is not prohibitive to refer Before seeking to referest any section of the confirst thing to be considered is the existing conditions secondly, those which pre-existed. The pre-enting ditions are those shown by an old forest. The species to replant are those found in such a forest the cutting away of the forests may cause and droughts, and if so care should be taken to reset these before planting is commenced.

I have heard it asserted that after a forest has burnt over the same species of trees will not cover ground again. This is only a seeming truth, at were said that they generally do not, it might be not the truth. Let us enquire why the same species is usually cover the ground after a forest fire. There doubtless many in the audience who have been in a firewood. From many of these firewood has been for thirty of forty years, and yet young major thirty of forty years, and yet young major cattle, and this forest being in all stages will coeffee untold generations, because what is taken from the is returned to it by the constant decay.

Should a fire run through these very woods, and young growth spring up, instead of maple or beed will find poplars and cherry predominating, and a north birch. A little thought will show that an burning of the seeds that is the drawback in the car maples. The same reasoning will apply to ever a The sole cause of this is the want of seeds. Pine for when burnt over are also spoken of as not misthemselves, but this also is a fallacy, except in the of repeated burnings where all the seeds are desira All woodsmen know that the seeds of conifers are: by ground squirrels and mice in old logs and an roots, and after one burning of the forest the seeds ge nate in myriads, and a close observer about the ma year after the fire will find seedling confers on every log and by every old stump, and this is one of them important factors in the reforesting of pine bads nature. The ground is then, covered by week and and trees which are of quick growth, and not a pices be seen, but within ten years after the fire the pineber to assert itself, and in 50 years we have a pine lost The whole of this is well shown along the Petro River and Catfish Lake in the Algonquin Park.

The reforesting of the prairie region is a different tion and needs more careful treatment. I will stale if facts and later draw a few conclusions from these in The beech ceases to grow before we reach largerior. Sugar maple ceases on McKay Mountain a miles from Port Arthur. Basswood comes up the River and extends westward to Morden. Overcome remains as a ferest tree for 200 miles and more with Winnipeg. Red or green ash was formerly absolute the Red River valley and extends westward to the fait the Dirt Hills, 400 miles west of Winnipeg. The fair river bottom tree—was found four years ago in

levalley, nor. of Regina, and is still a large eralley of the Red Deer river flowing into Lake

foregoing it was be seen that maple and beech ach Manitoba, and that basswood is sparingly that province. In the first prairie steppe. Elm, red or green sh, extend well across the second tope, but do not ascend to the third prairie framarack is coundant in a swamp near Branspuce is occasionally met with in the sandhills chilty.

yyans ago me Cypress Hills at their eastern recovered with fine aspen and balsam-poplar, ruce, and some canoe birch. On the western he hills where the elevation rose to over 3,500 feet relarge quantities of lodge pole pine, which is tin the Rocky Mountains. In the valley of the skatchewan there were many cottonwoods, and tend all the way up to the foothills in all the se. At Lethholdge two species of poplar are at are peculiar to that part of Alberta and Monthese are the only species of trees found on the hijesteppe.

eforesting of that part of Manntoba included in prairie steppe, with spruce, various species of lm, Manitoba maple, over-cup oak, tamarack, enash, will be a very simple matter, as all the posies of trees flourish there now. The chief ek in parts of Manitoba is the presence of sodiac superabundance in the soil, but local knowledge in overcome this difficulty.

ofafew hundred feet brings us to the second teppe, which with increased elevation becomes dless wooded and hence more difficult to reithforest. Much of the country between Bran-Indian Head, including Brandon Hills, the Oak istrict, around Fort Ellice, and south of Indian nd north to the Touchwood Hills, was within the ty years covered with heavy forests of aspen and poplar, with oak in the sandy tracts. This region soon become largely forest again, if care be okeep out fires and protect the young growth. miles west of Winnipeg there is no reason why ple land should not produce trees. Neither climate titude is against them, and if the trees of the y are used, with certain species of Russian poplar, an be no failure.

passing Moose Jaw, on the Canadian Pacific ly, we ascend to the third prairie steppe, and here ditions change at once. The rainfall is lighter healtitude has increased so much that fewer s are available and less ground is suited for preee culture. Owing to the light rainfall and certain arties of soil, trees would not succeed in many ns, but by the aid of windbreaks to catch the snow judiciously damming all the water courses, those dry up during the summer as well as those that manent water, large reservoirs of water could d that would irrigate considerable areas. On all of the Cypress Hills perennial streams descend to in, thiefly over gentle slopes, and these streams at little expense, be made to irrigate large areas atgraving, they would also serve to create a would change the climforest that er a large area and very much improve the country as far east as Regina. Enough water er this region, if only conserved, to reforest where ry and make farming profitable. It is only try to mention that in Alberta irrigation over realize begun, and besides the ploneer ditch at y, the St. Mary's canal from the boundary to idge will revolutionize an extensive district in m Alberta, and grain areas and forest belts will be ed all over this region.

ro Refore. The Prairie. The reforesting of ole country from Winnipeg to Moose Jaw is only a of detail. The are no climatic conditions to be mazed tree, seeds suitable for planting or growalt once be obtained in necessary quantities. It is purpose to gave advice in this matter, but only to the lines in which, in my opinion, success lies, eas of the constant which, in my opinion, success lies, alone should be used at the start is commended species and varieties be shanned. Withoba Maple (Negundo Aceroides), rood (Popules monolifera), Balsam Poplar (Populemmera), Aquin Poplar (Popules Tremuloides)—but trees by judicious sprinkling of known

hardy conifers, birches and Russian poplar, will be quite sufficient for all purposes.

The ground should be thoroughly prepared as if for a wheat crop and laid out in drills far enough apart to suit the person making the venture. Then seed of the species should be sown in the drills and covered. If poplar of any kind be planted, all that is necessary is to lay down in the drills pieces of wood fresh cut, or better still, the surface roots of the poplars found growing in the neighborhood, and cover them up. If the soil is fairly damp these billits or roots will soon throw up shoots and a quick and strong growth will follow. If four farmers having lots adjoining corners, a block of twenty acres would be grown in one locality, and these groups scattered over the country would add much to its beauty as well as to its fertility.

On the third prairie steppe most of the trees spoken of above would be available, but the poplar and spruce would be the surest. Where water is not constantly available no attempt should be made, except where the soil is constantly moist, as in the vicinity of springs or dams made for the purpose. As soon as nuclei are established, more can be added as the moisture increases owing to the accumulation of snow caused by the windbreaks at these points.

Windbreaks for the gathering of snow in the winter in the young plantations could be grown by the planting of tall growing corn for that purpose.

Mr. R. F. Stupart, Director of the Meteorological Service of Toronto, followed with an address showing what part the chinook plays in forestry in Alberta. By means of some lantern views of weather maps he showed that the chinook has its main point of entry into the plains at a point near the international boundary. Its existence was a great barrier to tree growth. He pointed out that the difficulty of making the trees grow would be greater further west, and claimed that the rainfall and snow-fall was about the same in the prairie country as in the wooded country.

Mr. John Bertram said that he had no doubt as to the success of practical forestry. Forestry was no new thing, but had been practised by some lumbermen for a considerable time, and scientific men were now coming into line with practical observers. Fortunately, in Ontario the ownership of the land still remained with the Government, making it easier to apply forestry methods. He said that the State of Michigan was endeavoring to solve the problem of forestry, but under far less favorable circumstances than in Ontario. The area there fit for reforestation was about 4,000,000 acres, or 70 per cent There are a great many gravel ridges and sand flats, and after cutting the timber the lumburmen had abandoned the land and fires had wept over it. There are no trees for miles, making it difficult to reforest. Regarding the growth of trees, Mr. Bertram said that the pine usually occupied the higher land, and did not seed more frequently than every three or four years. The trees that have flying seeds would reforest most quickly. The problem was how far will pine seeds fly. That the pine tree would out-grow the other varieties could be proven by an examination of a forest sixty or seventy years old, where the hardwood trees would be found to be dead. Mr. Bertram commended the Ontario Government in its action in setting aside forest reserves, and hoped that further steps towards securing a permanent forest supply would be taken.

In reply to a question Prof. Macoun said that the gall louse was destroying spruce trees in the

.east, and that tamarac in Algonquin Park was suffering from the same cause.

Some remarks relating to the scientific side of forestry were made by Mr. Gilchrist, who advocated that greater success would be obtained in reforestation by planting smaller trees.

Nr. Arthur Harvey said that he did not believe that deforestation had any effect upon the climate, but the climate might affect the growing of trees. He instanced Ireland, England, Quebec and even Ontario, where the climate had not changed as a result of the cutting away of the forest. He said that it took a longer period of moisture to start pine seeds to grow than was the case with hardwoods.

Mr. E. C. Jeffries, in a few remarks, advocated the establishment of a school of forestry by the provincial university, and Prof. Doherty, of the Royal Agricultural College, Guelph, referred briefly to the diseases with which trees are threatened. As a means of destroying the gall louse he said that spraying had been resorted to with very doubtful results.

Mr. Thomas Southworth, chief forester for Ontario, pointed out that the work of reforestation was really only commenced. The point had now been reached where a considerable expenditure of money was necessary in order to make the forest reserves profitable. He referred to the forthcoming meeting of the Canadian Forestry Association and to the conference upon forestry to be held in Kingston.

Mr. Aubrey White, Assistant Commissioner of Crown Lands, was called upon, but owing to the late hour declined the invitation to address the meeting.

#### THE LUMBERING INDUSTRY IN CANADA.

THE Labour Gazette for December, issued by the Department of Labour of the Dominion government, contains a lengthy review of the lumbering industry in Canada, under the following divisions: 1, Canada's Forest Areas; 2, Regulations Governing Lumber; 3, The Export Trade; 4, Conditions Affecting Employers; 5, Lumbering Methods; 6, Conditions Affecting Workmen. The last chapter contains much information of an interesting character which has not been published heretofore. It is stated that reports from every quarter go to show that, looked at from a wage-earner's point of view, the present is probably the most favorable period in the history of the lumbering industry. Wages have increased materially; there is a strong and general demand for men, and the standard of living provided by the lumbering companies has been raised. In next issue we may publish some of the statistics given.

#### CORRECTION.

Some typographical errors occurred in the letter of Mr. J. D. Shier, on the relative merits of different saws, printed in last issue. Referring to the double band saw it was stated that "it will cut from ten to fifteen thousand feet in an hour more than a single band, and will not make shaky lumber." This should have read "it will cut from ten to fifteen thousand feet in a tour more than a single band and will not make snaky lumber," atour, of course, usually representing 10½ hours. A similar error occurred in Mr. Shier's reference to a gang saw, the word "hour" being printed instead of "tour."

### ANNUAL MEETING OF ONTARIO LUMBERMEN.

The annual meeting of the Lumbermen's Association of Ontario was held at McConkey's Restaurant, Toronto, on Tuesday, January 29th. The business session was preceded by a luncheon tendered by the President and Board of Management, which was of excellent character and much enjoyed. The chair was occupied by the president, Mr. John Waldie.

Those in attendance included: Messrs. John Waldie, Toronto, president; Hon. E. J. Davis, Commissioner of Crown Lands, Toronto; Aubrey White, Assistant Commissioner Toronto; D. Miller, Manager Merchants Bank, Toronto; Robert Watt, Wiarton, second vice-president; W.B. Tindall, Toronto, secretary; John Bertram, Toronto; W. A. Charlton, M. P. P., Toronto; N. Dyment, Barrie; W. T. Toner, Collingwood; R. Laidlaw, Toronto; George Thompson, Goderich; Hon. John Charlton, M. P., Lyndoch; Thomas Charlton, Tonawanda; R. Cook, South River; D. L. White jr., Midland; Mossom Boyd, Bobcaygeon; J. T. Conlon, Thorold; J. L. Hotchkiss, Victoria Harbor; C. Beck, Penetanguishene; A. A. Wright, Toronto; W. Laking, Hamilton.

At the conclusion of the luncheon the health of "The King" was proposed by the president and drunk, also that of the "Ontario Government." Responses to the latter toast were made by Hon. Mr. Davis and Mr. Aubrey White. Mr. Davis referred to the importance of the lumber industry. He said the history of the province owed much to the lumbermen. It must be recognized that the clause prohibiting the export of saw logs has been of great advantage to the province. When this legislation was enacted the time seemed to be fully ripe for such a step. Mr. Davis spoke briefly regarding the difficulties that were being encountered with settlers in districts where lumbermen were operating. He appealed to the lumbermen to assist the Government as far as possible in avoiding trouble with the settlers.

Mr. White also spoke of the obstacles that had arisen in regard to settlement. The interests of the lumbermen should not be sacrificed, but the opening up of the country was the paramount interest.

The toast of "The Lumbering Industry of Ontario" was proposed by Mr. Robert Watt. Hon. John Charlton, in responding, suggested that action should be taken by the association and by the lumber interests of Canada to secure the imposition of an import duty on United States lumber. He thought it was but proper that our Government should impose duties corresponding to those imposed by the United States. In 1899, he said, the importation of United States lumber amounted in value to \$3,000,000, while last year it was still greater.

The business of the meeting, was then commenced. The secretary read the minutes of the last meeting and the financial report, which were adopted.

The address of the president was then read, as follows:

#### PRESIDENT'S ADDRESS.

The Lumbermen's Association of Ontario, which meets to-day, is not an organization conducted on purely selfish lines, but rather one that looks forward to placing the industry of the manufacture of our forest products in a position to assist in the upbuilding of the whole country.

With this end in view, we organized and supported the movement which brought about legislation that all logs taken from lands under license from the Crown should be sawn in Canada, and it was one which has resulted in the greatest good to the greatest number. The workman's wage from the tree to the car has improved. Not a single machine shop from Ottawa to Sarnia but has had increased work supplied, giving reasonable profits divided amongst all trades, as mills which were rotting down are now employing men and using supplies and machinery.

The year 1899 was, and will continue to be, a banner year to lumbermen. The stock at the mills, the product of the low prices prevailing in 1898 and previous years for labor and supplies, gave a low cost, and the active demand and real scarcity forced prices to the highest point at the end of the year. When stock-taking arrived a year ago, the balance of profit was not only satisfactory to the operator, but to his banker who had looked upon the manufacturing conditions as endangering the trade with the United States. We are glad to say all those fears have passed away. The year 1900, while reasonably profitable, does not show such good results, owing to the enhanced cost of production and to a higher price for stumpage where this had to be purchased, but on the whole the result was satisfactory.

We enter the new year and a new century with a very limited stock of sawn lumber to meet the ever increasing local and foreign demand, and for the next six months, at least, there need be no drop in prices.

Owing to the advance in wages and supplies we need not look for a profit in the future such as the past two years has given us. Others are now sharing in the prosperity. Wages in the woods have advanced in two years from \$16.00 to \$26.00 a month, with board. This is 60% advance. Supplies have shared the general advance, and the farmer who pays more for his lumber to-day gets it back from the lumbermen in the higher prices current to-day for bacon, butter and horses.

To illustrate: A lumber company purchased two carloads—say 30 horses—in 1897 at any average of \$65.00 each. The same company bought two carloads—say 30 horses—within the past three months, and the average cost was \$135.00 per horse, and the woods foreman pronounced the purchase at the low price as the best horses.

Lumbermen have always been free distributors of money, and as another result of the manufacturing condition attached to the business, it has elevated the people of Ontario in the eyes of our neighbors and strengthened the sentiment of national self-rehance amongst our people. We must continue to insist that our Dominion Government shall adopt a tariff against lumber and all wood products entering into competition, remove them from the free list, and relieve the lumber industry from the unequal competition of lumber manufactured and freighted under more favorable conditions. To-day, labor, machinery and mill supplies are higher in Canada than in the United States, and when low transportation rates on lumber are given from the Southern States, we in Ontario are placed in competition with the cheap colored labor of the south; and lumbermen in New Ontario and British Columbia are at a disadvantage when competing with Oregon and Washington Territory for the trade of our Prairie Province. The advantages given and favors shown by the whole country to Manitoba while a young and struggling Province, are surely entitled to consideration, and that province now being of age, may fairly be asked to accept the general policy of the government equally with the other provinces.

Ontario industries are paying a million dollars a year by way of a duty on soft coal, which is a tax local in its application owing to distance from our coal mines, and this tax is either for revenue or the protection and advantage of the coal industry of Nova Scotia and Cape Breton. So that if Manitoba should pay a tax on a portion of her lumber consumption, it is only fair, and it is an eror to suppose that Manitoba alone would pay the duty on lumber, as to-day Ontario supports lumber as extensively as the west.

The railway facilities afforded to the lumon sade have not kept pace with the improvement for transportation in other directions. Old light capacity flat cars are too often all we get, and even those too frequently during our busiest season are largely withdrawn to be used for ballasting the roadbed of the railway, and the box cars are withdrawn for grain when that trade demands. We

would urge upon the railways the necesshere is for upon crease of their stock of large and hear flat cars.

The difference in freight rates char d between hard wood of the same value as pine and prove lumber, when the hardwood section urged this asso, ation to try tal get removed, has been accomplished. The Fright Agents' Association, with their usual a resight, san the unfairness (and their opportunity at same time), and they "raised the rate on pine." The have been, see the advance in lumber, relative advance in freights to that to-day contractors for the public works of Caul find it to their advantage to purchase hemlock in the United States, and for pine they largery use the rich pine of the south. Even in these good times lumbered not stand a freight rate of \$4.00 per V feet from mil to consumer, with prices of Canadian stronpage, laborated supplies brought into competition with cheap labor and stumpage in the Southern States. I wenty years agoits. Northern Railway carried lumber into Toronto at \$1.00 per M feet, and the old Midland Railway did the sameto Port Hope. To-day the average is wer \$2.00 pa H feet. Rates have been steadily advanced on lumbras well as other lines, and the tendency of railway manage ment in this new century, with the large accumulation wealth in few hands, used not for benefitting marked but in the absorbing of transportation companies, som to make those who are rich richer, by mcreasing frogti rates to the highest point the traffic will stand, will inthe end be met with an outburst of socialism, to the injurid all. We believe this can be averted in Canada ifee Dominion and Provincial governments step grantes subsidies to promoters for the purpose of building nd roads to open up the country. Let the governments, bet Provincial and Dominion, build and own the roadsthe same as the municipalities do the highways. Let tasportation companies operate on terms to be agreed upon, either by allowing a portion of the gross carings to go to the governments, or on some other terms to be adopted; in each case the people owning the red through their representative, will have a say. This will come, and whether through a Ross, a Whitney, a lame or the yet unknown, the man who has courage to adopt it will be considered a patriot and a statesman,

In this period of combines and monopolies this assention is to be congratulated that no effort has been made by them with a view to raise prices, but have contented themselves with the market price given them by the ordinary law of supply and demand.

We are pleased to notice that the Ontario Government have taken up the subject of perpetuating the whiteper lumber industry by a system of reforesting and bre ranging. Our own observations confirm those of the government officers, that pine follows pine, and where soil is good the growth of young pine is from 1½° to 3' increase in diameter in 10 years. These measurements were taken from trees 8 to 13 inches in diameter. We hope all lumbermen will heartly co-operate with the government by leaving all healthy young trees standing where too small for logs, instead of stripping the growd as some do.

The secretary presented the following statistical report:

#### STATISTICAL REPORT.

I beg to submit herewith the following ssatistical aformation, based upon the best replies received to circlar letter of January 12th, 1901:—

PRODUCTION—WHITE PINE LUMBER:

Total quantity madesail 100

The total production of mills in north-western Online, embracing all mills on Georgian Bay, northern dusing of Grand Trunk Railway to Callender, and C. P. R. North Bay to Rat Portage:

1899	351,000,000 £
Increase	125,000,000 £
The decrease in production of mills in Saginaw Valley and Lake Huron short of Michigan hitherto supplied by Canadian logs	92,282,000 £
Net increase	j2,718,000 €

entering into market usually supplied by mese mills.

The decrease of United States mills the northwise district of Michigan, Wisconsin and Minnesota, which competes in the same market for 1900, was 478,003,000 feet.

YOU ON HAND-WHIT . PINE LUMBER, PRINCIPALLY : 02 bird Dec. 31, 190 120,000,000 ft. 96,349,000 ft

Increase for ther
Office stock on han! ')-c. 31, 1905,
there was sold waiting delivery.... 92,109,000 ft. 124,240,000 ft. pic (exclusive of Rat Portage) was... 406,000,000 ft.

HECT OF THESE FIGURES ON PRICES:

Taking into consideration the large decrease in the cited States mills, and also the fact that the increase in eduction is offset by 'ie reduction of the output of Edgan mills hitherto pplied by Canadian logs, one arrally comes to the onclusion that workings of the resupply and demand should tend to a maintaining present prices firmly, it not an increase, particularly as Bildy that large domands on the source of supply and to will be mad from the English market.

COE OF 1901 :

ď

M

Ь

X

25

X.

ده

14

ιbe

ď

.

ᅶ

χì

the

rd

gs be

'nŽ

'n

ρţ

ıće

ted

lbe

œ

m.

Ċκ

cre

3\*

215

We

ιbe

=d

2)

œ.

lır

in

R,

zi.

laugard to the volum of next year's tride, the estimated production of 1901 is.... The production of 1900

501,000,000 ft. 476,000,000 ft. 25,900,000 ft.

Increase..... The following figures are given of the volume of trade in

DATH WESTERN MILES :

The highest year 564,222,802 feet. 1892, the production being

Stocks on hand. Production. Foi the years 1896 5,725,763,035 4,053,937,435 2,728,271,000 2,839,705,000 1899 1900 5,485,261,000 is regard to the hardwood trade, the information I

nerceived is imperfect and not full enough to compile by figures that would be a guide. W. B. TINDALL, Secretary.

Mr. Bertram complimented the president upon isableaddress, stating that he was particularly turested in his reference to the forestry prob-

m. It seemed to him that lumbermen should ake an interest in the perpetuation of their own usiness. His observations had convinced him atifa sufficient quantity of pine timber was ft standing to seed the country, pine would inanably grow, although the first growth was usally poplar and white birch. He urged his coneres to give attention to the preservation of the oung pine. He was also in favor of an import ply on United States lumber, contending that be conditions between the two countries should equalized, and that Canadian lumbermen hould be given fair play. Our lumbermen, he aid, were not afraid of competition, but they bould be allowed to sell their product in the mited States if the manufacturers there

tere allowed free entry into the Canadian market. Mr. Dyment said that he was strongly in favor laduty on the American preduct. He had build great difficulty in shipping lumber to the

Faited States at a profit. Mr. J. T. Conlon also spoke on the duty queson, urging the lumbermen to take a fair stand. lesald they were not asking it as a matter of medion, but as a matter of equal rights.

The suggestions in the president's address rerading forestry and an import duty on lumber to met the views of Mr. W. A. Charlton, I.P.P. He had been an observer of forestry atters, and was certain that pine would grow fer pine. The figurand white birch to which fr. Batram referred were peculiar to the north. n districts. On the Moose river he had and sufficient sin ill pine to reforest the land. kr. Charlton strongly urged the employmen of a reater number of fire rangers as an eductive cans of protect ; the forests.

Messrs. M. Boyd, Robert Watt, C. Beck, William Laking, W. T. Toner, and Hon. John Charlton also spoke in sympathy with the movement to secure an import duty on lumber. Charlton said that the justification of the policy is that it would be an advantage to the country and give us proper protection. He pointed out that Canada buys three times as much from the United States people as she sells to them.

Mr. Bertram said that heretofore the lumbermen had not been organized in Canada to cut hemlock bill stuff; it had been taken out by the farmers and cut at small local mills. The situation was changing. The lumbermen find that on their land they have large quantities of hemlock, and if the United States hemlock was kept out of the Canadian market, it would be found profitable for Canadian lumbermen to manufacture the hemlock on their berths.

The following resolution was then submitted to the meeting:

"Moved by Hon. John Charlt on, seconded by M. Boyd, that the address of the President be adopted by the Association and a copy forwarded to the Dominion and Provincial authorities and that the president be instructed to adopt such a course as he thinks fit to have a duty placed on lumber coming into Canada."

This resolution was unanimously adopted.

The election of officers resulted in the re-election Mr. John Waldie as president and Mr. James Scott as 1st vice-president. Mr. N. Dyment, of Barrie, was chosen as and vice-president, and the following as the executive committee: D.L. White, jr., Midland; John Bertram, Toronto; W. A. Charlton, Toronto; J. B. Miller, Toronto; Robt. Laidlaw, Toronto; C. Beck, Penetang; R. Watt, Wiarton; J. T. Conlon, Thorold.

The question of the number of hours which mill employees should work was brought up. On the south shore of the Georgian Bay it is ten and one-half hours, and on the north shore The opinion of the meeting was eleven hours. that it is a question which must be governed by local conditions.

Mr. J. L. Hotchkiss was introduced to the meeting as an American who had come to reside Mr. Hotchkiss has assumed the in Canada. management of the lumber interests of Pitts & Charlton at Victoria Harbor. He stated that the resolution which had been adopted in favor of an import duty on lumber was one which appealed to him as proper. He did not think that the interests of the inhabitants of Manitoba would suffer thereby, as there was an immense supply of timber tributary to the Rainy river which could be drawn upon.

Before adjourning the members were addressed by the president and secretary of the Canadian Manufacturers' Association, inviting the associa-The matter was tion to join that organization. left to the executive committee.

SOME USES FOR OLD FILES. - There are many uses to which old files can be put. A good flat scraper can be made from a flat file, a half round scraper from a half round file, and from a three cornered file a good centre scrape can be made for use in scraping centre of work in order to make them run true. Drill drifts, cutters for arbors, etc., can also be made. When it is desired to remove a pipe nipple that has been broken off close to the threads, grind the corners of a square file sharp and drive down into the broken nipple. Unless it is rusted in very tight, it can be unscrewed. Broken cap screws can be removed this way, first drilling in hole for the file.

#### THE USE OF EMERY WHEEL.

The following advice to users of emery wheels by one of the largest emery wheel headquarters will be of interest to many. Too great a variety of work should not be expected from one grade of wheel. If the amount of grinding will warrant it, several grades can be profitably employed, each carefully selected for its particular purpose. Wheels should be kept perfectly true and in balance. In order that they may not become in the least out of true an emery wheel dresser should be used to dress up the wheels a little each day, or as often as they require it.

In mounting emery wheels never crowd them upon the arbor. Use flanges at least one-third the diameter of the wheel. Flanges should always be concaved and fitted with rubber washers between the flange and wheel. Have wheels slip easily on the arbor and screw flanges only tight enough to prevent wheels from slipping. Stands on which wheels are mounted should be heavy and strong, and solidly bolted to a firm foundation. Keep machine well oiled, so that arbor will not become heated, otherwise there is danger of wheels breaking from expansion of

Users of wheels are particularly cautioned not to run wheels on shaky machines, or on machines in which the arbors have become loose in the boxes from wear. See that rests are properly adjusted in relation to the wheel, otherwise accidents may occur owing to work being drawn between the wheel and the rest. Never run wheels at a higher speed than the maker recommends. Don't try to grind malleable iron with a wheel that was made for brass, as no one wheel can be made which will be just wright for grinding all kinds of metals.

To obtain the best results, emery and corundum wheels should he run at a surface speed of 5,500 feet per minute. Wheels, if run too fast, will heat the work and glaze, and if run too slowly will wear away rapidly and do but little work. The same speed should be maintained as the wheel wears down, and the speed of the spindle should be increased correspondingly as the diameter of the wheel is decreased. Where there is a different amount of grinding to warrant the use of more than one machine, this can be accomplished by transferring from the first or larger grinder to smaller ones as the wheels wear down, otherwise by means of cone pulleys.

#### SAVE YOUR OLD FILES.

The Globe File Mfg. Company, Port Hope, have recently added to their large manufactory a re-cutting department, which will enable them to re-cut and make equal to new promptly, files of any make or size at low prices. They have a special price list for this work which tion. The output of their factory is 600 dozen new files daily, which are shipped from Halifax, N. S., to Victoria, B. C. they will mail to any large consumer of files on applica-

The current (January) issue of the International Monthly, published at Burlington, Vt., is one of unusual interest. Emile Reich, of London, writes on "England at the Close of the XIX Century. He gives a comparative and most interesting study of the true status of Britain's interests, military and diplomatic. Bernard Bosanquet, of London, writes on "The English People": Notes on National Characteristics, the first of a most interesting series of papers on the national characteristics of the greater nations. Prof. Geikie, of Edinburgh, the geologist, describes "Mountain Structure and Its Origin." Dr. F. H. Williams, of Boston, writes on "The X Rays in Medicine," Herbert Putnam, Librarian of Congress, on "The Public Library in the United States."

# WOOD PULP ~© ©~ DEPARTMENT

COST OF PRODUCING SULPHITE PULP.

A meeting of the sulphite pulp manufacturers of Canada and the United States was held in Boston on December 28th last. Those present included Messrs. M. F. Mooney, of the St. John Sulphite Pulp Company, St. John, N. B.; P. V. Gascoigne, of the Laurentide Pulp Company, Grand Mere, Que.; and Chas. Riordan and George E. Challes, of the Riordan Pulp and Paper Mills. A question under discussion was the cost of producing sulphite pulp. Figures were submitted representing the cost of three sulphite pulp mills that were built in localities with advantages in the manufacturer's favor, and the figures went over \$10,000 per ton of production. Two of the mills cost \$300,000, and the daily production of each was 30 tons. An estimate is as follows: 21/4 cords of wood at \$6 per cord, \$13.50; coal, \$3; sulphur, \$3.30; lime, 70 cents; labor and salary in office, \$7; wear and tear, \$2.50. These figures are based on the cost for manufacturing a ton of pulp, and do not include insurance, interest, taxes, freight or commissions for selling pulp, and yet they show a total cost of \$30 per ton.

The Sulphite Pulp Manufacturers' Association represents a daily production of 650 tons of pulp, only 50 tons being made by manufacturers not represented in the Association.

#### INCREASED PRODUCTION OF SULPHITE PULP.

"A prominent sulphite manufacturer who has been collecting data concerning new sulphite mills now in course of construction, figures that there is going to be a surplus on hand in America by June, 1901," says the Paper Mill. "It is estimated that within the next six months there will come into the American market from new plants now building, and not counting the proposed increases in capacities of the mills at present engaged in making sulphite, 370 tons of sulphite pulp. This increased production is divided up as follows. Malone Paper Company, Malone, N.Y., 10 tons; Avalomink Paper Company, Minsi, Pa., 10, Jefferson Paper Company,

Carthage, N.Y., 30; Gould Paper Company, Lyons Falls, N.Y., 30; Traders' Paper Company, Lockport, N. Y., 20; Cushing Sulphite Fibre Company, St. John, New Brunswick, 50; J. Henry & Sons, Lincoln, Me., 30; St. Regis Paper Company, Great Bend, N.Y., 40.

"This list, representing 220 tons, shows the new plants which will be in operation by January, 1901. The St. Regis pulp is to be sold outside until April or May, when it is expected the paper mill will begin to run. But even then it is not expected that the paper mill will use all the sulphite product, and it is thought to be the intention of the St. Regis management to supply the felts mills and Taggart's plants with the surplus.

"Between January and June, 1901, the following plants will begin operations:—Sault Ste. Marie Pulp and Paper Company, Sault Ste. Marie, Ont., 60 tons; Bayliss Mill, Williamsport, Pa., 30 tons. To this list is to be added several new mills in the Fox River Valley, which some time between now and June 1 will add 60 tons to the grand total.

"There is little foreign sulphite imported today. Probably 10 tons a day would cover the amount coming in on contracts. During the boom last fall as high as 100 to 150 tons per day were imported.

"It is thought unlikely that even with a greatly increased consumption and the substitution of American pulp for the foreign article, that the domestic demand will be able to care for the increased production."

#### BEATING WOOD PULP.

Of all pulps wood is perhaps one of the most susceptible to altered manipulation in the beaters, though the chemical processes necessarily have much to do with its properties, says the Paper Maker (England). Sulphite pulp can be beaten to produce a paper exhibiting the high breaking strength of a rag paper, with an almost equal amount of expansion. This does not mean that the best rag papers can be equalled by sulphite,

but that experienced and careful beating vi materially affect the strength f the fibre. ht well known that wood pulp may be made tool and strong, or soft and porcus, capable of big used as a substitute more or ass for cotton a finen, and, on the other hand, for suitable the ten of esparto in the manufacture of art papers. The most striking point of difference between the pulp and sulphite is the resist are to crumpling. a very important quality. Sulphite pulp, on when exhibiting the highest possible breaks strain, is brittle and unable to withstand any n traordinary amount of friction. Ray pulp, or the contrary, is especially suitable for page which may have to put up with rough handler The brittleness of wood pulp cannot be grand modified by the beating, as it is determined in the chemical treatment, and it too much allow tion is given to making the pulp soft the strengt suffers accordingly. The question of adjustions of conditions thus becomes a very delicate or As far as the paper maker is concerned, & judgment is called into requisition to deaden the merits of various brands of pulp in order that the pulp most suitable for use may be g lected. A raw material consisting of fibres maximum length is easy to manipulate or to n duce to a given standard in the beater, while softer pulp is not so capable of alteration, & fibre being already shortened by the chemo process.

Whatever may be the ultimate use of there its manipulation in the beater must be carrie out intelligently. It should be a gradual m cess, the roll being let down on to the bedoler not all at once, but bit by bit, so that for the first half hour or more the engine acts as breaking machine. In this way the best qui ties of the pulp are brought out and the fibr are drawn properly. The roll can then be by ered as much as may be necessary to reduce to pulp to a right consistency. For fine printing the rate of beating is important, as a fast see gives the paper a mottled appearance, which highly undesirable in this class of paper, 2002 evil peculiar to wood pulp. Seeing that wo is now being used as a substitute for all sorar fibres, and that by careful treatment it may be imparted to it the qualities which at one in were thought to be the particular property other pulps, it follows that the operations beating cannot be effectively managed by a hard and fast routine, demanding, as it does, it highest skill in modifying the action of &

### HARDWOOD LUMBER

HOUSTON BROS. HOUSTON BROS. HOUSTON BROS. HOUSTON BROS.

### YELLOW PINE AND CYPRESS

Cairo, Ill. Memphis, Tenn. Bigbee, Miss. Columbus, Miss.

INQUIRIES SOLICITED

Address Main ffice

GEO. T. HOUSTON & CO.,

CHICAGO, ILL.,

13

lt's

1.24

12

183

Tk

354

ing-

eig

the

170

p. as

Na

lE<sub>2</sub>

1523

٩ħ

ngi

ning

nives to suit the p p on the one hand, and the aper on the other. There is no question that be marketable val. of a paper depends very agely upon the proper manipulation of the pulp the beater, in view of the fact that the ungth, handle and bulk of the finished article requalities best brought out by the beater man. It is obvious that . reless treatment at this stage of the manufacture cannot be put right by the machine man. - Its Paper Trade Journal.

#### PULP NOTES.

J. C. Wilson & Company are placing orders for achinery for their new pulp mill at St. Jerome, Que.

The Chicoutimi Puip Company will have about 6,000 arkeds of pulp ready for shipment to England early in be spring.

The Fraserville Puly Company, of Fraserville, Que., all seek incorporate at the coming session of the promanal legislature.

Itis stated on excellent authority that work on the paymed pulp mill at Grand Forks, B. C., will be comsenced early in the spring.

The Ollawa Power & Manufacturing Company are expeted to commence work in the spring on the building of a pulp mill on the company's property at the Chaudiere,

Mr. E. S. Jenison has been in consultation with American capitalists regarding the erection of pulp and paper mills at Port Arthur, the necessary power to be obtained from Kakabeka Falls.

The municipalities of Shipton and Danville, Que., on January 17th last granted a loan to Messrs. Angus & Whiteford, of Montreal, to asssist them in building a paper millon the Nicolet river, near the town of Danville.

Messs Crocker & Company, manufacturers of paper making machinery, of Pittsburg, Pa., are considering the stablishment of a branch in Canada. One of their re-

presentatives recently visited Sherbrooke, Que., in this connection.

The St. John andicate which has secured the Knight lumber property at Musquash, N. B., will erect a sulphite pulp mill and a paper mill, the latter for the manufacture of the higher grades of paper. Mr. H. H. McLean, of St. John, N. B., is acting for the company.

A meeting of the Keewatin Power Company was held in the city of Ottawa on January 10th, at which it was decided to proceed at once with the erection of pulp and paper mills at Rat Portage, Ont. The pulp mill will have a daily capacity of 100 tons, and the paper mill of 50 tons.

It has been necessary for pulp manufacturers in the northern and western part of New York state to secure a large part of their supply from Canada. This winter nearly 20,000 cords of spruce will be taken from the vicinity of Sherbrooke and Brompton Falls, Que. Of this 10,ooo cords will be required for the Freidenburgh Falls Company, 5,200 cords for the Treadwell Pulp & Paper Company, and 3,000 cords for the Plattsburg Paper Mill & Bag Company.

The plans for the pulp mills of the Belgo-Canadian Pulp Company are now complete and, provide for a plant with a daily capacity of 100 tons of ground wood pulp, 50 tons of bleached sulphite, and too tons of paper. product will all be shipped to Brussels, 50 tons of the ground wood pulp being about 45 per cent. dry and 50 tons 88 per cent. dry, in sheets 24 by 36 inches and o12 inch thick. The work under contract now, and to be in operation not later than June 1st, 1901, is the ground wood mill, 64 by 270 feet, two storeys high; boiler house, 50 by 64 feet, and shipping storehouse, 100 by 252 feet, one storey and basement, with two standard guage railroad tracks running through the centre, so the pulp can be loaded in the cars from one side and the paper from the The contract for the buildings was given to Mr. W. J. Hill, of Toronto, Ont., and that for the steel structural work and steel feeder to the Riter-Conley Manufacturing Co., Pittsburg, Pa., U.S.A. The special turbine wheels and feeder gates will be supplied by the Holyoke Machine Co., Holyoke, Mass.; the grinders, screens and

wet machines by the Friction Pulley and Machine Works, Sandy Hill, N.Y.: the drying machines by the Black & Clawson Co., Hamilton, Ohio, and the boilers and steel chimney by the Sterling Co., Chicago., Ill. The contract of Mr. A. C. Rice, consulting engineer of Worcester, Mass., with the Belgo-Canadian Pulp Co. is to take the natural conditions of the location, furnish all plans and specifications, place all contracts, and build modern mills in every respect, with a complete organization to operate them.



Has transferred the manufacturing part of its business to

### GANADIAN GENERAL ELECTRIC CO., LIMITED

Who will hereafter be glad to quote on all regular lines formerly made by . .

The Royal Electric Company

S. K. C.

ALTERNATING CURRENT APPARATUS

# THOROLD, ONT.

Hens, Estimates, Supervision and Contracts.

Many years' practical experience. References on application.

#### Mill Architect and Engineer

SPECIALTIES- PAPER, PULP AND SULPHITE PHERE MILLS, ÉLECTRIC TLANTS, SURVEYS AND IMPROVEMENTS OP WATER POWER.

### Wire Rope FOR **Alligator Boats**

AND ALL OTHER PURPOSES.

THE B. GREENING WIRE GO., LIMITED **Hamilton and Montreal** 

mm

JOHN BERTRAM & SONS DUNDAS, ONT.

MANUFACTURERS OF .

# PAPER MACHINERY

Cylinder Moulds Wet Machines

Cutters Dryers

THE above view shows one of the many styles of setting and case to which our

### PATENT TIRR

may be adapted. This plant was built for direct connection to Wood Pulp Grinders.

We invite correspondence from those contemplating the erection of Ground Wood Mills. Estimates submitted for complete equipments.

Let us have your address and we will send you a copy of our new 1900 Turbine Catalogue, also circulars of the Port Henry Grinder, etc.

### THE JENCKES MACHINE CO.

WWW Correspondence solicited \*\*\*\*

### THE NEWS

-A. J. Stepan is building a saw mill at Loring, Ont. -D. Cote, of Otterburn, Man., has recently purchased a portable saw mill.

-Josiah Keane, of Fesserton, Ont., intends converting his saw mill into a stave mill.

-J. D. Shier, of Bracebridge, Ont., is enlarging his planing mill and wood working factory.

—Drake & Mackon, lumber merchants, Innisfail, N. W. T., have dissolved partnership, H. Drake con-

-Peter Nadeau, of Port Daniel Centre, Que., has in view the erection of another saw and shingle mill at Grand River.

-The Conger Lumber Company, of Parry Sound, Ont., are building a new brick engine house and putting in another boiler.

-The Rathbun Company are said to be negotiating for the purchase of the saw mill near Bancroft, Ont., owned by the Flint Estate.

-It is the intention of McNab & Ryan, of Cranbrook, B. C., to establish a saw mill at Jaffray, with a capacity of about 20,000 feet per day.

-D. C. Cameron, president of the Rat Portage Lumber Company, states that his company have definitely decided to build a large saw mill in Winnipeg.

-The settlers of the Lake Temagami district, in Northern Ontario, are receiving \$2.25 to \$2.50 per cord for their pulp wood delivered at the banks of the Blanche river.

—Incorporation is being asked for "The St. Lawrence Lloyds," for the purpose of carrying on an ocean and inland marine insurance business in competition with the Lloyds of London, Eng.

-For the first ten months of the year 1900 the exports from the United States to Germany reached in value \$27,000,000. Of this lumber represented \$1,213,479, and timber and manufactured wood \$1,278,933.

—Dr. J. W. Good and P. W. Ireland, of Toronto, are interested in the Klondike Lumber and Fuel Co., now seeking incorporation. The head office will be in Winnipeg and the capital \$100,000.

-Pelford & Townsend, of Leduc, N. W. T., have established a saw mill on the south west side of the Con-

juring lake, 19 miles south west of Leduc. Lumber is being sold at the mill at \$14 per thousand.

-Mr. Finger, of the lumber firm of Finger, Arpin & Scott, of Port Arthur, Ont., was in Toronto recently on business with the Ontario Government. It is understood that his firm are seeking to acquire additional timber

—A new shingle cutting machine has been invented by Mr. Frank Johnstone, of the Pacific Coast Lumber Company, New Westminster, B.C. It is on a solid iron frame, with no woodwork attachments, as is the case with most of the shingle machines in use to day.

—The annual meeting of the National Wholesale Lumbermen's Association will be held in Pittsburg, Pa., on March 6th and 7th. The meeting promises to be an interesting one, as important questions affecting the lumber trade are to be brought up and discussed.

—The Ontario Government has decided to have a forestry exhibit at the forthcoming Pan-American Exposition at Buffalo. Special attention will be given to spruce suitable for pulp wood, and to hardwood for the manufacture of furniture. Mr. Thos. Southworth, clerk of forestry, visited Buffalo recently to make final arrange-

—Sir Henry Joly de Lotbiniere, Lieutenant-Governor of British Columbia, has procured and sown in Victoria seeds of hardwood trees not native to British Columbia, such as butternut, black walnut, white and green ash, red oak, etc. He states that in British Columbia they are well supplied with soft wood trees, but need the hardwood species.

wood species.

—The timber exports of England for the first ten months of 1900 had a total value of \$105,700,000, against \$92,500,000 for the same period of 1899, a gain of 14.3 per cent. The exports of lumber from the United States to England during the ten months show a gain of 41.4 per cent. over the previous year, while Canada increased her exports but 9.7 per cent.

her exports but 9.7 per cent.

—Ritchey & McDonald, of Makinak, Man., have purchased a saw mill plant from the Stuart-Arbuthnot Machinery Company, of Winnipeg, Man. The mill will have a capacity of about 30,000 feet per day. Manning & McClure, of Stonewall, Man., are putting in a saw mill plant in the Gimli district, Lake Winnipeg, having purchased the machinery from the same firm.

—Messrs John Nicholson and David Clark have purchased the veneer mill which for some time has been standing idle at Eugenia Falls, Ont. They will immediately put the mill in operation and manufacture veneers, heading blocks, staves, etc. Mr. Nicholson was for

thirty years in the employ of the Colmour Company of Trenton. Mr. Clark was also in the employ of the table firm for about nineteen years.

—Action has been commenced to decide the onsort of Deadman's Island, adjoining the sty of Vancous, and C. It will be remembered that The store Ludgate date at lease of the island from the Dominion government. on which to build a mill. After menced the provincial government put forth a diag the property involved, and as a rese operations toral building the mill ceased. The injunction still stands at now the matter of the title to the island is abortole adjudicated upon.

—The Pigeon River Lumber Company, compand a members of the firm of Arpin, Scott & Finger, of Gnal Rapids, Wis., have purchased the a mill and access ies of Graham, Horne & Company, of Fort William Or Company of the cutter winder of the control winder of the contro ies of Graham, Horne & Company. "Fort William Oz.
They have also taken over the enters winter cut of top
of Graham, Horne & Company and the tugs and obse
property of the Lake Superior Tug Company. Galas
Horne & Company retain their logging outfit, with boxs
and chains complete, and also the standing pac. It
is their intention to continue in business in Fort William
continuing their operations chiefly to work in the work.

confining their operations chiefly to work in the work.

—A dispatch from Grand Forks, 18 C., states that the largest body of timber in that section, and probably on of the most important in British Columbia, occupies the valley of the north fork of Kettle river, north of that en. Commencing at Cedar creek is a cedar belt which et tends for a distance of over fifty miles north in an about unbroken body. The cedar is interspersed with methantable tamarac and pine, and at the mouth of Franks creek the white pine commences. This is of the same variety as the Michigan pine, and is abundant in the river valley for fifteen miles above the mouth of Franks creek. creek.

An American syndicate, represented by F. J. B. Barnjum, have acquired large timber areas in Cap Breton, and have commenced preliminary work prepartory to the erection of a large pulp mill on the Northme, in Victoria county. The syndicate will be known as the North River Lumber & Pulp Company.

COVERING A SAND BELT.—Have good glue hot, un Louis Hurd, in the Blacksmith and Wheelwright, also have the belt a good stiff coat of glue, then put on plent of sand and set into the glue with a hand roller or hand ket and pack it down. Do about 2 feet at a time. Weat done hang up to dry for a day or more.

We are Importers and Manufeturers of strictly high-class

### AMERICAN BURNING AND LUBRICATING OILS, GREASES, ETC.

Havingino connection whatever with any monopoly, combination or trust. Prices and Samples cheerfully submitted.



# SPECIAL

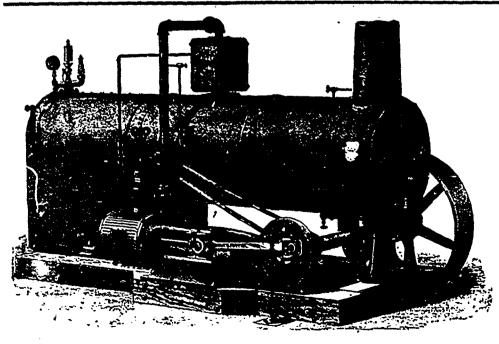
MOST RELIABLE BRANDS

Heavy "Peerless"- "R. R. R." Dynamo "Capitol" Cylinder - "Renown" Engine -

"Atlantic" Red—Summer and Winter Black-

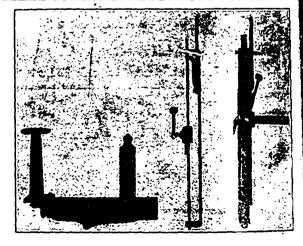
Cup Grease—Castor and Lard Oil—Cotton Waste

THE QUEEN GITY OIL GO., Limited Cor. King and Yonge Streets, TORONTO. SAMUEL ROGERS, President.



SEND FOR CATALOGUE AND PRICES. . .

ROBERT BELL,



Portable Saw Mill Engines We build all sizes from 12 to 100 H.P, similar to the cut, and also with the engine on top of the boiler, as preferred, on skids or wheels.

Saw Mills of all sizes Double Edger. Log Haul Up.

Trimmer. Live Rolls. All kinds of Saw Will Machinery Saw Mill Dogs. | auge Rollers White's Hand Swadge.

Circular Sers suitable for Band Circular Suss. Pulleys, Shafting, Hangers, Genng

Seaforth, Ganada.

#### PERSONAL

Many readers of F. LUMBERMAN will regret to learn of the recent sudd a death of Mrs. Ward, wife of Hon. J. K. Ward, of Mon scal.

Mr. D. C. Camer manager of the Rat Portage Lumber Company, has been elected Mayor of Rat Portage by acclamation for the ar 1901.

Mr. Alex. McCo. Goreman for the Pembroke Lumber Company, has accorded a position with Booth & Gordon as manager of their pull at Cache Bay, Ont.

Mr. T. Whaley to resigned as manager of the Whaley Lumber Company, of Huntsville, Ont., and will retire from active busined life, although continuing as presideal of the compan

Mr. Arthur D. Campbell has been appointed Canadian commercial agent of the Argentine Republic and Uraguay, to succeed Mr. D. W. Rennie, who resigned on account of ## health. Mr. Can pbell's headquarters will be at Buenos

The sympathy of many friends has been extended to Mr. J. W. Maitland, of Maitland, Rixon & Co., lumber merchants, Owen Sound, Ont., upon the death of his eldest son, Mr. F. B. Maitland, which occurred on January in his 21st year

Mr. J. C. Shook, formerly of Toronto, and lately of British Columbia, has been appointed manager of the Dickson Compans of Peterboro, as successor to the late T. G. Hazlett. Mr. Shook has had a large experience in the lumber business and is well qualified to assume the management of the important interests of the Dickson Company.

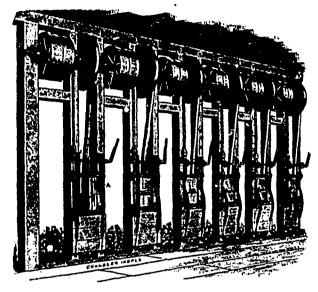
Mr. J. G. Scott, the well known lumberman, of New Mr. J. G. Scott. the well known immorthan, of New Westminster, while on a visit to eastern Capada recently recived a telegram advising him of his re-election by ac-damation as Mayor of New Westminster. This may be regarded as the highest possible testimonial to the value

of the public services which Mr. Scott has rendered to his adopted city.

Mr. James G. Maclaren, son of Mr. David Maclaren, lumberman, of Ottawa, arrived home from South Africa past month. At the outbreak of the war he was employed in the lumber district at Johannesburg for the Lingham-

Maclaren Trading Company, who also have lumber yards at Pretoria and Lorenzo Marquez. At Durban he enlisted in Methuen's Horse and served as a trooper for one year and eighteen days. Notwithstanding the dangerous duties in scouting and outpost work, Mr. Maclaren escapations.

### The Best Excelsior Machine in the World



When two or more knives are run with one belt, all must stop when the belt is stopped to set bits or from any other cause. Our Machine has a belt for each knife, hence but one knife stops at a time. This great advantage should not be overlooked by purchasers. Time is money. Our Machine cuts more excelsior in a given time than any other machine. Get our circulars and prices.

### Indianapolis **Excelsior Manufactory** INDIANAPOLIS, IND.

RE-OPENED FOR ORDERS

### DLYTH HANDLE & TOOL

BLYTH, ONT.

### Tool Handles

LUMBER CAMP SUPPLIES A SPECIALTY

White Rock Elm Farmshed to the Trade.

Caube on Application

E. LIVINGSTONE, Prop.

### S. HENDERSON

PARRSBORO, N. S.

Manufacturer of . . .

### LUMBERMEN'S SHOE PA'KS

#### OIL TAN LARRIGANS

One of the Largest Manufacturers of these goods in Canada . . . . .

ASK YOUR DEALER FOR THEM

Proc List on Application. Correspondence Solicited.

#### J. D. SHIER

### Lumber. Lath & Shingles BRACEBRIDGE, ONT.

RAILS For Logging Tramways, Switches, Btc.
New and Socond Hand.

### YARD LOCOMOTIVES

John J. Gartshore

83 Front St. West,

(Opposite Queen's Hetel, Teronto.)



### **OUR EXTRA** HAND-MADE

This Ax stands better in frosty weather than any axe made. . . . Send for sample. Can supply any nattern.

GAMPBELL BROS.

St. John, N.B.

FRANK DENTON, Q C. HFRB
• W. MULOCK BOULTBEE. HERBERT L DUNN.

#### DENTON, DUNN & BOULTBEE Barristers, Solicitors, Notaries, etc.

"Temple Building,"

Bay and Richmond Sts.

TORONTO



WATEROUS, BRANTFORD, CANADA.





ESTABLISHED 1849. CHARLES F. CLARK, JARED CHITTENDEN, President. Treasurer.

#### BRADSTREETS'

Offices Throughout the Civilized World

Offices Throughout the Civilized World

Executive Offices:

Nos. 346 and 328 Broadway, New York City, U.S.A

THE BRADSTREET COMPANY gathers information that reflects the financial condition and the controlling circumstances of every seeker of mercantile reedit. Its business may be defined as of the merchants, by the merchants, for the merchants. In procuring, ceritying and promulgating information, no effort is spared, and no reasonable expense considered too great, hat the results may justify its claim as an authority on all matters affecting commercial affairs and mercantile credit. Its offices and connections have been steadily extended, and it furnishes information concerning mercantile persons throughout the civilized world.

Subscriptions are based on the service furnished, and are available only by repatable wholesale, jobbing and manufacturing concerns, and by responsible and worthy financial, fiduciary and business corporations. Specific erms may be obtained by addressing the company at my of its offices. Correspondence invited.

THE BRADSTREETS COMPANY.

#### THE BRADSTREETS COMPANY.

OFFICES IN CANADA: Halifax N.S.; Hamilton, Ont.; London Ont.; Montreal, Que.; Ottawa, Ont.; Quebec, Que.; St. John, N.B.; Toronto, Ont.; Vanccuver, B.C.; Victoria, B.C.; Winnipeg, Man. THOS. C. IRVING, Gen. Man. Western Canada, Toronto.

JOHN A. FULTON, Gen. Man. Eastern Canada, Montreal.

Please mention the LUMBERMAN when corresponding with advertisers.

WE MANUFACTURE

### 闘語 FILES AND RASPS

eve. cut and size, for all classes of work. Rvery File Tested and Warranted Prices always right.



old Files re-cut in quantities at special low prices. Write for price list.

Whithouse, No. o Dizier St., Montreal, P.Q. | The Globe File Mig. Co., Port Hope, Ont.

The Leading European Lumber Paper

The Timber Trades Journal Published Weekly by WILLIAM RIDER & SON Ltd., 14 Bartholomew Close, LONDON, E. C.

- SUBSCRIPTION: \$5.00 PER ANNUM, POST FREE --

The "TIMBER TRADES JOURNAL" circulates in all European countries, the British Colonies, United Stales, &c. &c., and is a very reliable medium of publicity for all buyers and sellers of hardwoods.

· Sample Copies may be seen at the Office of THE CANADA LUMBERMAN



### CAMP SUPPLIES . . .

.We make a Specialty of Supplies for Lumber Camps.

H. P. ECKARDT & CO.

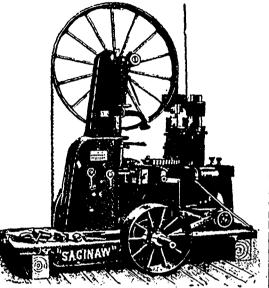
WHOLESALE GROCERS

Cor. Front and Scott St., TORONTO

**550** 

MERSHON BAND RE-SAWS

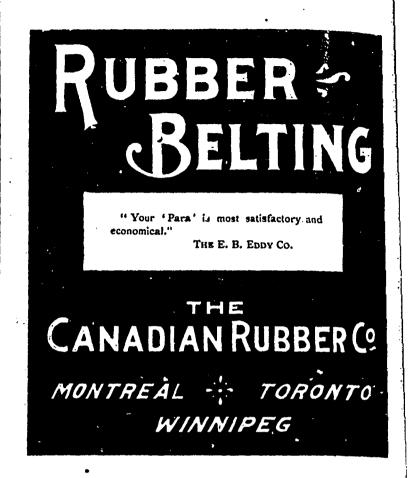
In Daily Use



SAGINAW BAND RE-SAW

Euy Direct and Get the GENUINE.

W. B. Mershon & Co. Saginaw, Michigan, U.S.A.



Please mention the CANADA LUMBERMAN when corresponding with adventisers.

The "McFarlane" Forged Steel Socket

# CANT DOGS

#### THE BEST MADE

Manufactured with Round and Duck Bill Dogs. The Handles used are all made from Selected Split Rock Maple.

Picks and Dogs are made from the best Cast Steel, being forged, hardened and tempered by experienced workmen; every one warranted.

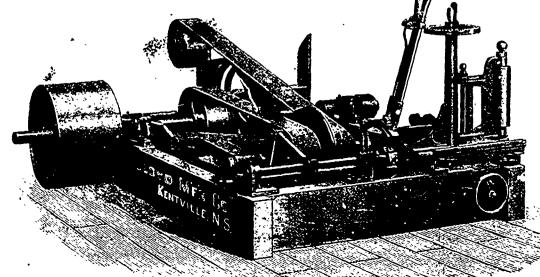
The Socket is forged steel and welded solid to the eye, making it far superior to the malleable bank.

MANUFACTURED ONLY BY

### The McFarlane-Neill Mfg. Go., Limited

Write for quotations on Cant Dogs and Handles.

ST. MARYS, York Co., New Brunswick, Canada



### Lloyd Manufacturing

Go'y

JOHN I. LLOYD, Proprietor.

### SAW MILL OUTFITS

Pulp Machinery, Belting, Etc.

OUR SPECIALTIES:

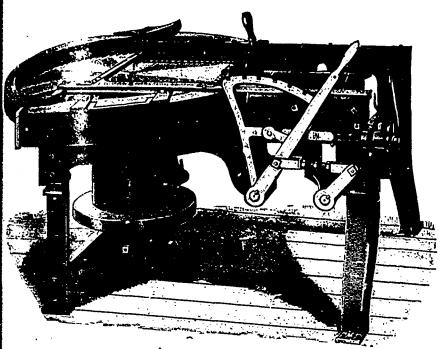
Band Saw Mill Machinery, Improved Rotary Saw Mills, with Green Mountain Dogs, Also Screw Post Dogs, Turbine Water-Wheels,

Power Feed Goog Edgers, Buzz and Surfa e Planers, Heading Roun cos, Stave Machines, Stave Joisles, Stave Planers.

KENTVILLE, N. 8

F. J. DRAKE'S PATENT

## SHINGLE MACHINERY



"DAUNTLESS" SHINGLE AND HEADING MACHINE. Capacity:—25,000 to 50,000 per day. Takes in the largest block -cuts the widest Shingle—and cuts up closer. Has the easiest and simplest adjustment. One screw adjusts for thick or thin Shingles or Heading. One screw adjusts either butt or point of Shingle at either end of block. Drop tilt drops from half inch to three inches, with ½ inch variations. Easiest working carriage, and strongest and most durable machine made.

Complete outfits at reduced prices.

Catalogues and Prices on application.

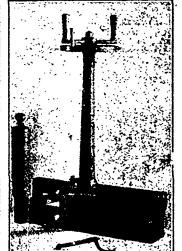
### F. J. DRAKE - Belleville, Ont.

THE-

### "IMPROVED LANE" PORTABLE SAW MILL

Embodies all of the Advance Features of the heavier sizes. It is Light, Rigid and Durable. The carriage excels for handling long timber—can't cut anything but parallel with it, unless

ycu want to.

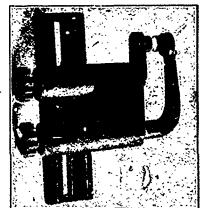


MPROVED FAIRHANKS ROLLER GAUGE

NOTICE this "Fairbanks" Roller Gauge, which is supplied with all Lane Mills. Can be used on any Mill. The same applies to the "Gurnsey" Saw Guide here illustrated.

We don't like to miss a chance of telling rater power owners about





GURNSEY SAW GUIDE.

They've never gone back on us, and are guaranteed equally faithful to all purchasers. The same catalogue that describes these Turbines, and gives their tabled powers under various heads, contains it teresting matter on Saw Mills, Lath and Shingle Mills, Pulleys, Gears, Hangers, Etc.

PRICES ON APPLICATION TO

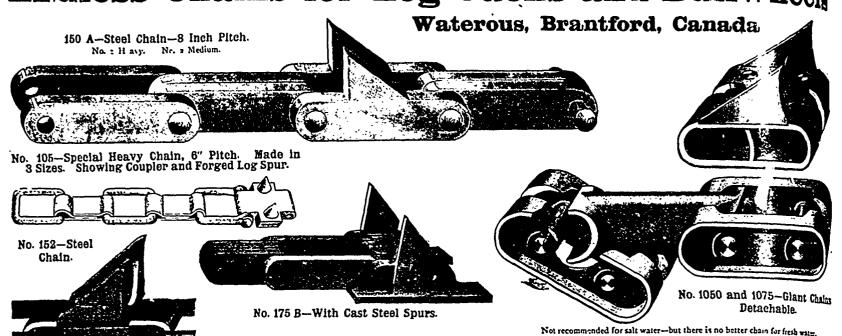
### MADISON WILLIAMS

H. E. Plant, Agent.
Common and Nagareth Sts. MONTREAL

SUCCESSOR TO PAXTON, TATE & CO.

PORT PERRY, ONT.





### Refuse and Sawdust Carrier Chains



Large Facilities.

No. 450-Spur Link. (Right and Left.)

WATEROUS

WATEROUS, BRANTFORD, CANADA

Prompt Delivery.

Send for Circulars and Prices

18



McEachren's\_\_\_

### ROGRESSIVE LUMBER DRY KILN

Our Heaters and Fans are Economical with Steam and Power, are Safe as a Fire Risk. Plans and specifications furnished with each apparatus.

Write for Prices and Particulars to

MACHREN HEATING & VENTILATING CO.

GALT, ONT

# Talismanic

# Belt\_Clinch

For the Manufacturer

Separate Dressing For Bach Beit.

WEST WEER ON WE'LL CLING TO"

Wesofict opportunity to compete against and DRESSING on the Market. . . . .

OH W. BOWDEN & CO., 67 Adelaide St. B.

### **TELEPHONES**

Send for our Illustrated Catalogue

### "UNIQUE" TELEPHONES

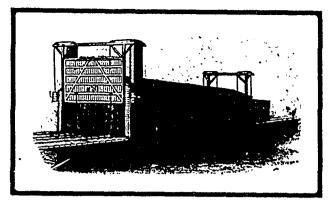
For Main Line and Warehouse Use.

Only Telephone made that does not get out of adjustment. Satisfaction guaranteed.
Sold outright at low prices. No exorbitant royalties.

SOLE MANUFACTURERS

JOHN STARR. SON & CO., LIMITED

P. O. Box 448, HALIFAX, N. S.



### **STANDARD DRY KILN**

If you want a dry kiln that will dry your stock perfectly, economically and satisfactorily, write us for full particulars about **THE STANDARD**. Many of our kilns are in use in Canada, and are giving better satisfaction than any other kiln on the market.

Write us about it. We can put you in a complete drying plant promptly, and you needn't accept it till we prove to you that it will do just what we claim for it.

ASK FOR BOOKLET

THE STANDARD DRY KILN CO. INDIANAPOLIS, IND., U.S.A.

### Dry Kiln Apparatus

-For Lumber and all Mill Products.

### Sawdust and Shaving Conveyors

-For Planing Mills.

### Galvanized Iron Piping and Fittings

-Made to Sizes Furnished Us on Prints or Sketches.

Write for particulars and prices to ...

GEO. W. REED & GO.,

785 Craig Street,

Montreal.

# SOMETHING SPECIAL

We direct your attention to the above illustration of our NEW PEAVEY. Its good points will at once be apparent to and appreciated by all practical lumbermen.

Note the improvement in the socket—a fin running from the base of the hook to point of socket. It is made of the very finest material, and is the most practical and up-to-date Peavey on the market.

MADE BY

JAMES WARNOCK & GO

GALT, ONT.

MANUFACTURERS OF AXES AND LUMBERING TOOLS.

### THE JAMES ROBERTSON CO., Limited.

Saws of All Description A Full Line of Mill & الاحداد Supplies, including Belting, Babbit Rubber and Leather carried in stock. Metal, &c., always Factories at Head Office: MONTREAL, 144 William St. TORONTO, MONTREAL and ST. JOHN, N. B CIRCULAR, CANC **ALL OUR SAWS** D MILL SAWS A FULLY WARRANTED SPECIALTY Orders promptly attended to. Satisfaction Guaranteed.

### Galt Machine Knife Works



**MACHINE KNIVES** 

OF EVERY DESCRIPTION

Woodworking Machines

. Send for Price List . .

Galt, Ont. PETER HAY

### Rice Lewis

## BAR IRON AND

FILES SAWS ROPE CHAIN AXES BOLTS HORSE SHOES, ETG.

Cor. King and Victoria St.

TORON!

Write For Prices

Every Lumberman wants it

35 cents buy

### Scribner's Lumber and L

BRIMFUL OF EVERY-DAY.

Address:

PRACTICAL INFORMATION

THE CANADA LUMBERMAN, Ton

SAVES TIME

SAVES MISTAKES

SAVES MON

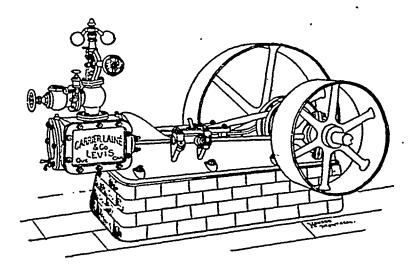
# EASY

But if that "3" represents Middlemen's commission on the Machinery you buy, you had better make a change and deal at headquarters.



No better Mill Machinery is made in Canada or elsewhere than that supplied "DIRECT" from our Machine Shops,

**Lowest Prices** 



### Portable and Stationary **Engines and Boilers**

CIRCULAR SAW MILL PLANTS GANG AND BAND SAW MILLS

SHINGLE MILLS, LATH MILLS

EDGERS, PLANERS and **BUTTERS** 

Modern Patterns in Every Line

Tools, Belting and upplies

We are equipped to build any special machine you may require.

IF YOU HAVE PLANT TO EXCHANGE GET OUR **ESTIMATES** 

GARRIER, LAINE & GO., LEVIS, QUE.

### USE THE FAMOUS .. PINK LUMBERING TOOLS

0

Duck Bill Peavies. Round Bill Peavies, Finest Duck Bill Winter Cant Hooks

Cant Hook Hapdles 1 Peavy Handles

By Car Load or Com

Pike Poles, Skidding Tongs, Boom Chains

PEMBROKE, ONT