

The World's Biggest Lumber Yard.

THE CANADIAN FORESTS AND HOW AMERICANS ARE TURNING THEM INTO BOARDS AND NEWSPAPERS

Enough Wood Pulp to Paper the Globe—A Visit to a Mill and Something About How Such Paper is Made—The Last of The White Pine—How Lumbering is Done—Big Government Forest Reserves.

(Special Correspondence of the Deseret News by Frank G. Carpenter.)
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OTTAWA—Imagine yourself seated in one of Telephone Bell's tetrahedral kites, flying over the biggest lumber yard of the world. I refer to the immense forest area of the Canadian dominion. It begins on the Atlantic and ends at the Pacific, stretching from east to west for more than 3,000 miles. Starting in Nova Scotia and New Brunswick, you look down on enough big trees to cover the state of Massachusetts. There are lumber mills working, and the proprietors of the London newspapers are putting up pulp mills there to supply the paper for the greatest reading constituency of Europe. Going westward we fly over the vast forests of Quebec, and into those of Ontario from where a great part of our white pine now comes. Here the forests extend from the shores of Lakes Superior and Huron northward to the Gulf of Hudson bay, and go on to the west, almost to the setting sun. They take in the Lake of the Woods region, and then switch to the north and skirt the wheat belt, until they lose themselves in the giant woods of the Rockies and the Pacific.

British Columbia has the same climate and vegetation as Washington and Oregon, and its trees are surpassed by none in the world. They are sometimes 40, 50 or 60 feet thick; a single log will load a car, and one tree cut into boards may make a train load. Timber, which will square two or three feet and make a log 60 feet long, is spoken of there as a tooth pick, and such tooth picks are exported as far as from Philadelphia to Detroit. It has red and yellow cedar, white and yellow pine, red fir, maple, and oak. It is one of the most valuable places of woods left on the North American continent.

THE WOODS ABOVE THE LAKES.

Flying back to the east, let us look for a moment at the woods beyond the Great Lakes. Above Lakes Superior and Huron is an extension of the forests we had in Wisconsin and Michigan. Fully one-third of the trees are more than 100 years old, and many have seen several centuries. They consist of white pine, birch and maple, and other hard woods with a strip of spruce at the north vast enough to make the wood pulp for the newspapers of generations to come. These woods are furnishing a large part of the white pine of the United States. Four million pine logs are floated down every year to this city of Ottawa, and other millions go to the Great Lakes and across to the United States. We charge duties of \$2 a thousand on all such lumber, but it comes in by the ship load.

AMERICAN LUMBERMEN IN CANADA.

Americans already own a big share of the lumber business here, and they are rapidly acquiring more. Many of the lumber camps are managed by our people. Connecticut axes cut down the forests, and mills, equipped with American machinery, are sawing the logs into boards for American houses. I have met many of our lumbermen here and have chatted with them about the business. One of the best posted is B. W. Arnold, who is largely associated with General Russell A. Alger in pine lands in Minnesota, and who has also large interests in British Columbia and Canada. He has saw mills along the Great Lakes, and ships pine and other lumber to the United States. In my chat I asked him about the wood which we are now getting from Canada. He replied:

"The United States imports all sorts of lumber from here. It gets considerable pine, red birch, balsam and spruce, but the most important of all is pine. Nearly all the white pine used east of the Ohio comes over the international boundary, and we also ship pine to the west central states. The most of the American pine has been cut off. We have some such forests left in Minnesota, but there is comparatively little in Maine, Michigan or Wisconsin."

CANADIAN PINE.

"How does the Canadian pine compare with ours?"

"It is not so good," replied Mr. Arnold. "What we are now cutting would have been classed as third grade lumber in the Michigan forests a few years ago. Indeed, I doubt if more than 10 per cent of what Canada is selling is up to the average pine that we sold 20 years ago. The best 10 per cent comes from trees which are about 300 years old, the next grade is from trees 150 years old, and the lower grades are younger and smaller. We are now cutting pines which give us 14 or 16-inch boards and some which give less. The logs are cut in 16-foot lengths."

"Is there much demand for white pine?"

"Yes, it is the aristocrat of the soft woods, and is in great demand, notwithstanding the high prices. We are now getting \$25 a thousand for it at

wholesale in New York. White pine was formerly used for everything. Our carpenters and builders have been working with it since the beginning, our tools are made of it, and for years our houses have been built of it. Therefore, every one wants it. It is especially valuable for shipping boxes. It is so clean and white that the stencils show plainly upon it, making the box a good advertisement for the shipper."

LUMBERING IN CANADA.

"How is the timber gotten out in Canada?"

"Much of it is cut in the woods in the

The timber is sold only when it is ripe.

If these arrangements are kept in force,

they will give Ontario a forest reserve

of 40,000,000 acres, which will, it is es-

timated, bring in \$30,000,000 a year.

Canada has set aside a number of

national parks. In two of its Rocky

mountain reservations it has almost

as much as we have in all our national

parks, and in Ontario there are 7,000,000

acres of such reservations. The Yoho

park on the Pacific slope is 40 miles

long and 15 miles wide, and the Rocky

Mountain park, along the line of the

Canadian Pacific railroad, is 96 miles

long and 16 miles wide. The Algonquin

National park in central Ontario con-

tains twelve hundred thousand acres,

and northern Quebec has a national

The pulp comes out in the shape of

a cardboard two yards wide, rolled up

just like matting. A day's output of

the mechanical part of that mill alone

would carpet every sidewalk in Wash-

ington city, and leave enough to put

a clean coat on the chief highways of

Boston. It would, in fact make a car-

pet, six feet wide, 350 miles long, or

long enough to cover one track of the

Pennsylvania railroad from Washing-

ton to New York, and have the New

York Central from the latter city to

far beyond Albany. One year's output

of that mill, estimating 300 working

days to the year, would carpet a truck,

six feet wide, four times around the

world and across our continent and

back again.

ery was moved by water and the books

reilly floated in the running brooks

on their way to their readers.

The mills in which these logs are

ground are about eight feet high. Each

has a great grindstone in it, against

which the logs are pressed by ma-

chinery in such a way that they are

gradually pulverized as the stones

move around at the rate of 200 revo-

lutions per minute. As the wood

grinds off the dust falls down into the

water inside the mill, and when it

comes out it looks like chewed paper.

It is now wood pulp, and has only to

be purified and dried into a sort of a

cardboard before it is ready for the

market. I opened one of the mills

and took up a handful of the pulp.

made by a chemical process. In this

manufacture there is no grinding

whatever. The logs are cut into chips

and put into an enormous steel tank,

which is filled with sulphurous acid

and steam. This works on the wood

as the stomach works on food, and

finally digests it into a pulp. The dif-

ference between chemical pulp and

mechanical pulp is about the same as

the difference between short staple

cotton and long staple sea island cot-

ton. The chemical pulp has a longer

fiber and it makes a stronger paper.

The tank used for making chemical

pulp at Sault Ste. Marie is almost 100

feet high, and the most complete of

its kind in existence.

A large part of the wood pulp of

have overlooked the fact that many ob-

solete departments are still in full

swing. One section of the service after

swept by broadsides, and yet the an-

tiquated Pigeon Service—first instituted

by one Noah or Ark notoriety—still re-

have been made, through the press, and

privately, against keeping up this

branch of the service; yet the naval

board clings to it as if, wireless tele-

graphy were a mere figment of the im-

agination.

According to recent estimates, the

birds employed by the English navy for

carrier purposes, number no less than

1,000; and cost, approximately, some-

thing like \$15,000 a year to keep in

training. There are pigeons kept at

each of the four great naval ports—

Portsmouth, Chatham, Plymouth and

Pembroke—and besides these, birds are

installed at Malta and Gibraltar.

The training of these birds is car-

ried on with great care and the service

of many skilled officers—whose atten-

tion might be devoted to some more

up-to-date part of the service—men

appointed at each of the points men-

tioned to keep the service efficient.

Each bird has a pedigree and history

sheet, with a complete record of per-

formance. A great deal of "officer

work" is connected with the "pigeon

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A LOAD OF NEWSPAPERS IN EMBRYO.



SPRUCE LOGS CUT UP FOR PAPER.

Photographs Taken Specially for the Saturday News by Frank G. Carpenter.

winter and floated down the streams

to the saw mills along the railroad on

to the Great Lakes. The Ottawa river

takes down millions of feet yearly, and

nearly every stream of any size has

part in carrying the logs. Every

winter the lumbermen are chopping

away in the forests. They begin to

make roads for the new camps in July

or August, and then cut down the trees

In the dead of winter they haul the

logs over the snow to the streams. They

live in log cabins, in camps, and we

have a regular system of supplying

them with provisions. The work is

hard and we have trouble in getting

good labor. There is no eight-hour law,

and the men begin at 6 in the morning

and work until dark. Just now we are

hiring our men from Montreal. We

pay from \$25 to \$30 per month and board

for ordinary workmen, and more for

skilled men."

BIG LUMBERMEN OF NORTH AMERICA.

"Who owns the most of the timber

on this continent?"

"By far the greater part belongs to

the governments, although private par-

ties have millions of acres. The chief

lumberman of Canada is Booth of Otta-

wa, who is said to control more than

9,000 square miles of good timber lands.

The chief lumberman in the United

States is Warhouse, and old German,

who came into Minneapolis with a few

dollars and is now worth many mil-

lions. Warhouse had some credit; he

begin his career in the United States

by buying timber lands on long time.

As the lands rose in value he sold

enough to pay his interest, and went in

debt for more. His property doubled

and quadrupled and then doubled

again; and as a result Warhouse is

one of the world's richest men. He is

now in partnership with Helms, a well-

known lumber dealer of Chicago. War-

house and Helms have enormous tim-