The Lumber Harvest

How the Forest Primeval of British Columbia is being converted to the Needs of the Farmers of the Prairie Provinces.



OOT, Toot!" shouted the don FOOT, Toot!" shouted the donkey engine. Immediately from 700 feet back in the woods a huge hundred foot log came crashing towards the "yard." Another donkey engine seized it and threw it upon a locomotive car. Soon the locomotive started down the grade to the mill with a full load and a few minutes later what was once a giant of the forest became a pile of boards for the construction of barns and houses. This scene is one of continuous entries.

the forest became a pile of boards for the construction of barns and houses. This scene is one of continuous enactment throughout the timber belt of British Columbia today. A few weeks ago the writer visited a large timber mill on the G.T.P. in northern British Columbia. Stretching over an area of 28 square miles is a crop of cedar, fir and spruce, from one to 200 years of age, that has never yet been violated by the hand of man. Here an army of 150 men were engaged in harvesting the bounty of Nature, so generously provided for the needs of man. A large mill was erected close to the railway track. A private railway line ran back into the timber and on either side of this track, for a distance of 700 feet the logs were being brought out to the milk.

Sawing and Yarding

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The lumber-harvesting operation is one of great fascination. The engineer pushes the private railway forward into the selected area. Next follow the sawing crews, three men to a crew, with half a dozen crews at work. Two of them operate the cross-cut saw, while the third man in each crew trims the logs ready for the mill. All day long the crash of falling trees reverberates through the mountainous district. There is something pathetic in watching these great forest giants that have withstood the storms of perhaps 200 years, rudely thrown to the earth, but it is a part of the scheme of civilization.

The sawing crews first select the finest and tailest tree as a "spar-tree" and fall all the other trees towards this spar-tree. Sawing crews under normal

conditions will fall from 40 to 50 trees

conditions will fall from 40 to 50 trees each per day.

Close after the sawyers come the yarding crews. A powerful donkey engine is set up close to the giant spar-tree. The top of the spar-tree is cut off or blown off with dynamite from 90 to 100 feet from the ground. At the top of this tree is attached a pulley through which a one-inch steel cable runs from the donkey engine. The steel cable is attached to the logs lying throughout the woods, by means of a "choker" and the donkey engine snakes the logs with great speed to the yard along side of the spar-tree. This method of yarding is known as the "bigg lead" system, and one donkey engine with a yarding crew of three men will bring to the yard, about 150 logs daily. Once the donkey engine starts to bring in a to the yard, about 150 logs daily. Once the donkey engine starts to bring in a log nothing can stand in its road. Trees of one foot in diameter that have not been worth cutting go down before the incoming logs like wheat before a hailstorm and the result is that little is left standing when the logs have all been yarded. Two donkey engines were

more, down the hill to the pond beside the mill. Here the logs were rolled off the car and down the skidway into the pond and the cars went back into the yards for further loads.

The logs as they arrive at the pond vary in length from 40 to 100 feet, which is too long either for the mill or for shipment. On the edge of the pond a steam drag saw lies in wait for the logs and cuts them in lengths convenient for the mill to handle. The drag saw does the work formerly requiring four mes and is able to keep up with the demand of the mill.

Once the logs are cut into proper

Once the logs are cut into proper lengths they are started towards the jack-ladder which snakes them up into the mill and on to the roll-way, from which they go to the saw.

The Power of Steam

Cutting is done by a band-saw 15 inches in width, 54 feet in length, propelled by a nine foot drive wheel and with teeth on both sides so as to cut with both the forward and backward movements of the carriage which holds

by him. It is then loaded into "hale buggies," which are ranged along as of the sorting table. Horses are in to draw these buggies out into the powers to draw these buggies out into the powers the lumber is piled waiting to shipment or for drying.

When ready for shipment the lumber goes to the dry-kiln, where it is few by steam heat at the rate of 50,000 few per 48 hours. Passing out of the per 48 hours. Passing out of the passes and from thence to the cars on the G.72 siding for transportation to the praction wherever it is needed.

Half Million Invested

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The mill and plant represents as a vestment of approximately \$300,000, a including the timber limit, appendix mately \$500,000, and is designed to paper everything necessary for the matruction of farm buildings with a struction of foors, and windows. To main mill is operated by three 130 here power return tubular boilers and Dutch-oven setting and a 350 home power twin engine. In addition to the planing mill there are two shingle meaning mill there are two shingle means the state of th power twin engine. In addition to the planing mill there are two shingle mechings cutting 35,000 shingles daily and a lath machine cutting 40,000 am daily. The planing mill has a capacity of 250 feet lineal per minute. In addition there is a moulder and a power-drine rip-saw. The planing mill has its on cover plant with a 120 because plant with a 120 because plant with a 120 because the planing mill has its on the planing mill has a power plant with a 120 because the planing mill has a capacity of the planing mill has a c power plant with a 130-horse-power boiler and a 150-horse-power automate engine.

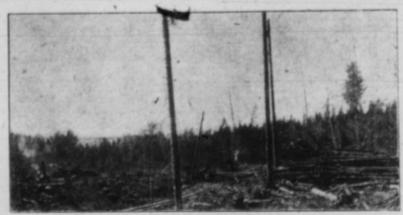
orrounding the mill are the home of the workmen, and the small ten is rapidly being developed in the bac of the woods. Electric light is po of the woods. Electric light is provided for operating the mill at sign and for the use of the town as we and a good sized general store is on ducted by the company for the cospecience of the employees.

Labor is Scarce

The greatest difficulty in the laste ing business today is to secure efficient labor. The war has taken away man thou-ands of experienced lumbers and lumbering is one of the skilled a dustries. The wages run from \$4.00 pe day for Chinese help to \$7.00 a days more for the foremen, but even the wages do not attract sufficient number of competent men to the work became they are not to be found today in Cas

Although the scenery is somethin which cannot be turned into dollars more cents in the lumbering business, yet is attractive and inspiring to the visits. It must also have its effect upon the workmen when sweltering in the bary are not so that they are not seen to be a few miles and the seen seen and the seen the seen seen the seen that the they can see only a few miles away is snow-capped peaks of the mountain It will at least remind them that is heat is only a passing phase and then will be plenty of long cold winter day ahead of them.

Note.—The timber plant described in the above article is that of the U.G.G. seemills Ltd., at Hutton, B.C., but is a describe of many other saw mills that are bevesting the timber crop of British Column today.



After the Trees are felled and cut into Logs a Donkey Engine hanls them together with cables. They are then carried on Log Trains to the Sawmills.

steadily engaged in yarding and others were in the course of installation.

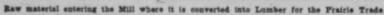
Hauling to Mill

the selected area. Next follow the sawing crews, three men to a crew, with half a dozen crews at work. Two of them operate the cross-cut saw, while the third man in each crew trims the logs ready for the mill. All day long the crash of falling trees reverberates through the mountainous district. There is something pathetic in watching these great forest giants that have withstood the storms of perhaps 200 years, rudely thrown to the earth, but it is a part of the scheme of civilization.

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the loga. Everything possible in the mill is done by machinery. The carriage stops in front of the pile of logs, a steam "kicker" throws the largest log with ease on to the carriage. A steam "nigger" pushes the log into its exact position and, believe me, it is some "nigger." It requires about one and three-quarter minutes to rip the largest logs into boards, while the smaller logs go through in about 45 seconds. From 10 to 12 seconds is all the time required to put a fresh log on to the carriage 10 to 12 seconds is all the time required to put a fresh log on to the carriage and start it running. As soon as the sawn lumber leaves the saw it is carried by "live rolls" to the edger, where the moving transfer conveys it along to the trimmer, after which it goes down the incline to the sorting table where the surveyor marks each piece as it passes







Another view of the same Mill with some of the finished product ready for shipp



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