High Priced Coal Scraps Old Plants

Modern Steam Power Plants Are Three Times More Efficient Than Older Types

We are possibly just as wasteful of coal as is the United States, where, according to V. H. Manning, Director of the United States Bureau of Mines, fully \$500, 000,000 were wasted last year, through inefficiency in use. Notwithstanding the higher efficiency rendered possible by the constant improvement of modern power equipment, the waste is increasing and the higher price of the commodity is subjecting the country to a still heavier penalty. Every pound wasted is that much less

into useful energy ready for distri- size elsewhere is being exploited Were it possible to inconsumed into power.-L.G.D.

Ontario Forestry (Continued from page 1)

rangers. the 986 rangers who do the actual patrolling and fire-fighting.

For the most part, the rangers work in pairs, travelling by canoe, and earrying their camp equipment and supplies with them. many cases to secure rangers. Much care has, however, been exercised to secure only competent men, and to weed out those who prove to be comes on the market. unfit for the arduous duties. chief rangers and the sub-chiefs are in constant personal touch with their men, and the staff is rapidly improving in efficiency and team-

Communication and transporta tion, both of prime importance, have been greatly improved. Some 915 miles of old trails and portages have been cleared out, and 60 miles of new trails and portages constructed. Thirty-one lookout towers, from 24 feet to 80 feet high, have been built, and 22 more are under construction. Thirteen diers. rangers' headquarters' cabins have valued at \$10,000, was burned up to be emulated.

been built, in addition to the re- in his box while the groom and his pair of old ones. About 45 miles wife and children were forced on of telephone line have been erected. their knees to watch the agonizing Five automobile trucks with fire- death of the noble animal. fighting equipment have been pro- the Germans realized that they vided for districts where settle- were making a mistake in destroy ment is under way and passable ing these valuable horses and began roads exist.

greatly reduce the amount of fire sums. loss in Ontario as it has already done in Quebec, British Columbia.

this year, in that the work of fire trucks, they have found the horse restricted to lands under license to nomical. Whether the development available to put into energy to win cut timber, or to forest reserves of the motor truck, which, and parks. On the whole, all comparatively recent years, did not In the modern, efficient power these are being given better pro-receive as much attention as that plants, 20 per cent of the heat in tection than ever before, but, in ad- of the passenger car, will be taken the coal consumed is converted into dition, protection is being furnish- up with energy enough to make it power, whereas in small power ed over large areas of unreserved sufficiently economical to superstations the efficiency frequently and unlicensed lands, containing sede the horse, I cannot say, drops below 10 per cent. It is enormous amounts of young forest heavy farm tractor is a thing of quite probable that, on the average, growth, which will now have an the past. The light farm tractor only about 5 or 6 per cent of the opportunity to reach merchantable energy of the coal is transformed size while timber of merchantable horse business is concerned, a man

Last year the area of land under something near the maximum now square miles. A fire tax of one attainable, about three times as cent per acre per year has been much energy would be available levied by the Government and for the productive industries of the should yield a revenue of upwards country. The increasing price of of \$110,000. To this the province NOW IS THE TIME TO eoal is causing many old, ineffi- adds a sufficient sum to bring the cient steam power plants to be re-placed by modern ones that con-about \$375,000. The province can vert a higher percentage of the fuel well afford this expenditure for the conservation of its forest resources, for last year the forest revenue amounted to \$1,335,320. This is a decrease of nearly \$200,000 from rangers, assisted by 31 sub-chief the previous year and is directly These men provide the attributable to the war. Under immediate field supervision over normal conditions, the annual forest revenue will average from \$1,-500,000 to \$2,000,000,-C.L.

THE FUTURE OF THE HORSE

As far as the light-legged horse general shortage of men, due to the is concerned, he is practically doomwar, has rendered it difficult in ed. The motor car has taken his place. Although still of some use in courtship, he will go out of business as soon as the self-guiding car

> For a number of years the heavy horse will be in demand. He is keenly in demand at the present time. Prices were never so high. After the war is over, there will be a great demand for them in the countries now ravaged by war.

I have in my possession an official publication from the Belgian Government giving many harrowing details as to what happened to the Belgian horses. The brood mares and foals running in the best lawns of employees at the varifields were slaughtered, being often used as targets by the German sol-One pure-bred stallion,

to ship them to Germany. The permit system of regulating sent their experts to select the best settlers' clearing fires has been put individuals, giving to the Belgians into effect in the Clay Belt and is working very well. Over 1,200 lie of France, payable at Paris. permits have been issued to date. These orders were in German and Its enforcement will no doubt were often for the most triffing

I have had interviews with representatives of all the large cart Nova Scotia and New Brunswick, age companies in our cities and A change of policy of prime im- they say that, so far as they have portance has been made effective gone in trying out the motor prevention and control is no longer much more satisfactory and ecohas come in to stay. So far as the can continue to breed heavy horses without any risk of market failure erease the average efficiency to license to cut timber was 15,712 for at least ten or fifteen years to come.-Dr. J. G. Rutherford, before the Western Canada Irrigation

SELECT SEED CORN

Now is the time to prepare for the selection of the seed corn. The world is crying for increased grain a result of strong and well-plans production. One of the least ex- effort. This is especially true pensive and easiest ways to help to research work, since when increase production is by the plant- organization charged with rout ing or sowing of the very best administration becomes short-lar quality of seed. Before cutting ed. the routine must receive at commences is the best time to select the ears of corn for seed.

Go into the field with a bag, and from the strong sturdy hills with exists for this purpose alone. large perfect ears, choose the best. Select more than you will require to plant your crop next year. Before planting time a second selection can be made of the very choicest of the ears already gathered. After being gathered, they should be carefully and thoroughly dried and stored in a dry place. Plan now to select in this manner and to have a proper place in which to store the seed .- F.C.N.

The Spanish River News and Safety Bulletin, published by the employees of the Spanish River Pulp and Paper Mills, Ltd., announces the award of prizes, ranging from \$5 to \$25, by the company for the best gardens and also for the ous mill centres. This, like the publication of the bright little house organ, is a mark of progress

Big Shortage of Trained Foresters

Forestry Work is Suffering from Lack of Experts

The most striking feature of the forestry situation in Canada to de is the extreme shortage of trace men available for the tech: work of forest administration : research. The forestry profes no less than others, has answthe call for overseas service, as high percentage of the grade foresters of the Dominion are engaged in Europe in the defe of the Empire.

This profession was only beg ning to get on its feet in Canand had, thus far, developed on a very small personnel in prope tion to the actual needs of country. The result of the hear enlistment has been that the vi ious forestry organizations has as to supervisory staff, been reduced practically to a skeleton basis, to ing to the utmost the efforts of few remaining technical men hold the ground already gained

Similarly, as in other deport ments of university work. forest schools have been large drained of under-graduates so the for years to come the normal me ber of graduates available to build up forestry organizations be sufficient to fill only a fraof the real need.

All this indicates that, for so years, we may anticipate that, to ing the country as a whole. terial progress in forestry will made with difficulty and only tion, and there is little opportun for development along research lines, unless a special organizat

Obviously, if continued prog in forestry is to take place in p portion to the need, a very spe and well-supported effort, suppo ed strongly by appropriate gove mental and private aid, must made. This applies to research. well as to additional facilities ! the training of men.

The Japanese are a nation fishermen, and their diet is prin pally fish. A hardier, healthing race does not exist.

Dr. C. MacLean Fraser, direc of the biological station at Nam mo, B.C., has been elected vis president of the Pacific Fisher Society.

The Japanese government iss insurance policies up to \$124. fe which no medical examination required.

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