# Wood using Trades and Raw Material

Serious Situation in United States Due to Depletion of Eastern Forests

A report recently issued by the United States Forest Service shows that over two-thirds of the original forest area of that country has been culled, cut-over or burned are left to-day There 137,000,000 acres of virgin timber. 112,000,000 aeres of culled and second-growth timber large enough for sawing, 133,000,000 acres partially stocked with smaller growth, and 81,000,000 acres of forest land of all sorts, which contains about 2,214 billion feet of timber of merchantable sizes. Three-fifths of the timber originally in the United States is gone. Cutting is taking place each year at more than four times the rate of the annual growth. Even the trees too small for the sawmill, but upon which the future lumber supplies depend. are being cut three and a half times as fast as they are being produced.

The report shows that the use of wood cannot be appreciably reduced without serious injury to the agriculture, the home building and the manufactures of the United States. The per capita use of lumber cannot be reduced to onehalf or one-third the present amount if the resources of the country are to be developed and its industries maintained. great bulk of the wood required must be grown at home, since large increases in lumber imports are not possible at reasonable

The original pine forests of the Lake States, estimated at 350 gasolene. billion feet, are now reduced to since 1892, been reduced from 9 orate. billion.

feet of timber to 139 billion feet.

One-half of the timber remaining fire. in the continental United States is in Washington, Oregon and California, and 61 per cent of it lies west of the Great Plains. It is estimated that, within the next decade, the shortage of nearer Central States to increase their on the streets where hydro wires annual consumption of western are strung under the superintendlumber by 11½ billion board feet.

The depletion of timber in the United States has not resulted Society have as their chief plants-primarily from the use of the man, Mr. R. V. Smith, formerly forests, but from their devastation. This is the result of forest fires and don, who is an expert along this of methods of cutting which de-line. The trimming is being done stroy or prevent new timber in a sane manner. That part

growth.

Forest Service is advocating con- the wires is paid for by the Hydro certed action by the Federal and Commission, and the balance of State governments and by the land the work to make the tree symmetowners. The prevention of further rical is paid for by the City devastation of the forests, through protection from fire and insects these two municipal bodies and by regulation of the methods commendable.

of cutting, is strongly advocated. The responsibility of the land owner is emphasized, in addition to the undoubted responsibilities of the various governments. The policy advocated aims toward timber production on somewhat the same footing as in France and Scandinavia, as an established national practice. This calls for a core of public forests, governmental instruction and example, as well as encouragement in methods of protection and taxation, and a re-sponsibility recognized by forest owners to keep their lands productive.

This programme is meeting with a rapidly increasing measure of support on the part of the many large industries dependent upon the forest for their raw material. as well as from public-spirited organizations and individuals throughout the country.

The forests of Canada have, for the most part, not yet suffered so severely from devastation as those in the United States, but losses from fire have, nevertheless, been severe, and the productivity of the land is being constantly decreased through lack of regulation of cutting methods calculated to perpetuate the forest through wise use. Clyde Leavitt.

Gasolene fumes came in contact with a lighted lantern. buildings destroyed, loss, \$250,000.

Gasolene is dangerous. It is one of the most rapidly volatilizing fluids. One pint of gasolene will impregnate 200 feet of air and make it explosive.

Many serious fires have been started from the careless use of

Gasolene should only be used less than 8 billion feet. The out- in the open air, and clothes, after put of sawmills in the region being cleaned with it, should be bordering the Great Lakes has, hung outside to allow it to evap-It should always be kept billion board feet of lumber to one in tightly closed metal cans, never in glass bottles or jars. The virgin pine forests of the latter are liable to breakage and Southern States have been deplet the consequent freeing of the ted from a stand of 650 billion dangerous fumes when open flame may ignite them and cause a serious

### TAKE CARE OF ITS TREES

The Hydro-Electric Commission and the Parks Department of the City of St. Thomas have timber will compel the Eastern and placed the trimming of the trees ency of the Horticultural Society. The St. Thomas Horticultural superintendent of Parks of Lonof the work on the tree that it is To remedy this situation, the necessary to remove to protect

# **Forestry Conference** at London, England

Delegates from all parts of Empire Discuss Utilization of Resources

The holding of the Imperial Forestry Conference at London, England, from July 7th to 26th, will constitute a landmark in the development of forestry throughout the British Empire. Strong delegations were present from the United Kingdom and from the various colonies, dependencies and dominions, including Canada. The discussions were held strictly to the subject in hand and were based upon reports carefully prepared in advance showing, for each portion of the Empire, the extent and character of forest resources, their relation to the rate of exploitation. present and prospective, and the status of the administration and of the policy and procedure governing the utilization of these resources.

Between sessions of the conference, tours were arranged to representative forests in England, Scotland, and Wales, both natural and planted, in order that the delegates might become familiar with what has been done in the past and what is under way for the future, along forestry lines

The report of the United Kingdom, presented at the Conference. bears out the general assertion that democracies are notoriously backward with regard to forestry practice, at least until the pinch of necessity becomes sufficiently felt to stimulate the adoption of adequate measures looking to the re-establishment of a forest cover on lands chiefly valuable for that

While the British Isles were formerly heavily forested, clearing has progressed until it is estimated that to-day there is in all England, Scotland and Ireland only 5,180 square miles of forest, or 4.3 per cent of the land area. In England the percentage of forest to the total land area is 5.1, in Scotland 6.0, and in Ireland 1.5.

Approximately 470 square miles of timber land was cut over during the war, this comprising a large proportion of the mature coniferous timber in Great Britain.

As a consequence of this depletion, the United Kingdom has had to rely to a very large extent for its timber supplies upon imports from other countries. The shortage of shipping during the war, however, demonstrated conclusively the extreme undesirability of having to rely so completely upon foreign supplies.

As a result of careful consideration by the British Government, measures are now under way which will in the course of time. restore the United Kingdom to a more self-respecting position with Under the regard to forestry. Forestry Act of 1919, a Forestry Commission has been appointed for the United Kingdom, and an appropriation has been granted of period of ten years. This money shaft can be quickly isolated.

is to be used primarily for the purchase or leasing of land for afforestation, though other aspects of forestry work will receive attention. Large forest nurseries have been established, land is being acquired, and the programme is already well under way.

Resolutions were adopted by the Imperial Forestry Conference which should result in much more attention being given the vitally im portant matter of perpetuating the forests by wise use, in all parts of the Empire. It is expected that the next session of the Conference will be held in Canada in 1923. Clyde Leavitt.

## Metal Mines Need Better Ventilation

dany Fatalities Occur from Miner's Consumption—Neces-sity of Fire Control

That miner's consumption kills at least 1,000 metal miners annually in the United States and cause a loss of time aggregating millions of dollars, as well as suffering to miners and their families which cannot be estimated, and that this disease is in large measure preventable by proper ventilation, is the conclusion of Mr. D. Harrington, mining engineer, in a paper recently issued by the United States Bureau of Mines. generally accepted that coal miner are healthier than metal miners this fact is due to the greater attention paid to ventilation is coal mines.

Coal mine operators have seen the need of installing proper ventilation systems on account of the presence of explosive gases. metal mines, ventilation has not been so seriously regarded till the shortage of labour and the operation of the workmen's compensation acts directed attention thereto

The removal of the dusts injur ious to health as well as of noxious gases and the fumes of explosives and the reduction of high temper atures and humidity are the prin cipal reasons for efficient ventila ting of metal mines. Miner' consumption is largely caused by the presence of exceedingly fin The hard, sharp siliceous dust. insoluble particles cut and injur the lung tissue and render it mor or less inelastic. Heat prostration has also brought about fatalities is metal mines, which could hav been avoided by proper air circu lation. Inert gases, such as nitro gen and earbon dioxide, will some times accumulate, and it is imposs ble to remove these without fans Methane, or fire-damp, while no common, is not unknown in meta mines, and explosions of this ga have sometimes occurred.

A further reason for a prope ventilation system is the need fire control. All metal mine having timber underground shoul be equipped with fans so arrange that the air current can be versed at will and all shafts carry ing air should have doors so placed £3,500,000 for its operations for a at intersecting levels that any