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# FOREST PRESERVATION IN CANADA 

BI:
A. T. I)RUMM(NSI).

PRINTED IN ADVANCE OF TIE REPORT OF THE ANNUAL MEETING



## 

Band of the Provinces comprising the I manion of Camadia, werpting Manitoha, has control of its awn crown lames, amd hemee it is difient to serume one miform series of measures for the protertion of the timber upen these crown lams. Ciremmstanes are dillerent in rawh lrowince. In Bitish Cohmohia, the foresta are largely yot motwonde exepting along the lawitic Comst, amb there is thas the "ppormity still there of carefully comerving the forsts, so that they may he a continued source of revenue, instat of allowing fires and the lumberman's axe to have marestricted sway among them. between the Rocky Mountains and the bemmaries of ontario it is mather a question of how far forests are to be created, in the combtry is chadly open prairic. In Gutario and Quebee, along the streams which fall into the Georgian bay, and at the sources of the Ottawa, St. Maurice and other great rivers and their tributaries, there is still a considerable area of White and Rod Pine, bat the trees are of diminished size compared with the splembid trunks common on the Ottawa twenty years ago. The lumbermen are fast appoaching the northern limits of the growth of these trees. In Ontario, the provincial finances are in groot condition, amb the Govarment there, can, if it will, readily curtail its revenues from timber and timber limits, in order to prevent waste of its crown lands, and to preserve them in conlition to yied revemes to the Govermment and prolit to the lmbermen who may work them in years in the future. In the l'rovince of Quebee there is more diffienty in dealing with the question, as the Province has a very heary fumbed deht, the interest of which, in addition to ordinary expembiture, has had to be provited for, and as a consergenes every
 Nuw Bromswick has still some forrests of line aml spruer, but the area is, compared with the Ontario and ghebec forests, redatively small, whilst Novat sootia has, on the whole, hat little timber of seom morchatalde size left, and has corvesombingly less interest in the ghestion of forest peservation. The erown lands are muler Iominion rontrol only in Manitoha and the North-West Tomitories, and some steps lave been taken to preserve what timber exists there.

As is woll known, the system prevails in Camala of leasing from Sear to year linge areas of crown lamis mater the name of timber berths or timber limits, at ant ammal rental per splare mile. Thongh the lease is from year to yemr, yet hy custom it is maderstoed that as long as the rent is paid, the lessee may continue in possession indefinitely matil he has cut off all the timber he desires. Sometimes the holder is merely a speculator; at other times he is a lumberman, who is keeping the limits in reserve for future working, and thus, frequently, large morked areas are tied up from year to year by parties who have a puasi right to continne this maler the original lease. This makes it diffieult to apply new regulations to limits ahready under lease. Sections of comutry not yet muder lease-and consilerable new tracts have in Ontario been rendered aceessible by the Camaian Pacific Railway-are in a different position, and governments can readily lay down rules for their fature working as timber limits.

Germany, France, sweden and India have their forests cared for moder more or less stringent regulations, and even the smatl Province of Cape Colony in Sonth Africa has its Forestry Department, under Govermment control, and is doing a good work that should put us to shame. The forests there are being arrangel for scientific working, the fundamental principle being, the conservator says, that the cutting shall not exceed the growth. Why should we in America with a splendid heritage in the pine forests of Mane, Quebec, Ontario, Michigan and Wisconsin have been so prodigal and reckless, and have shown so little farsightedness, as to have gone on from year to year for half a century past allowing this heritage to be diminished glallually in value without even an attempt to prevent it! How often are we blind to the future! The Cape Colony Report for 1884 very well puts it that the policy shonld be pursued of setting our

 has an inbrest in the action which its moighburing state or l'rovine takes or neglacts to take on this question. Our sreat rivers haw oftern their fomatain heads, or the fomatan hads of their tributaries,
 Ereat lakes, or the seat, through other states or Provineres. Hawe mot those whose lands along the route are watored hy these rivers, the citios, towns and villages which are seathored ahong their hamks, and the publie which makes use of the stemmats and other cralt which
 waterways are not impared by the hurning or cutting anay of the forests at these fomatain heals? It is the province of every state to legrasate for itself, or to withhoh legishation, int in this comse, the neighbouring States have a cloar right to ask that theit waterways and water supplies shall not be impaired or ent off hy its neglect to provide proper legislation or proper oversight.

The remedial measures which I would suggest with a view to the preservation and renewal of our forests are in some respects enpally applicable to the United States and to Camala.

The leases of timber areas I would restrict to detinite previols of five or at most seven years, and when the lease expired, the partionlar area covered by it should have a rest of say twenty-five years, to allow of the young trees attaining merchantable value. 'Thre effect of this would be to largely eheck speculation in timber limits, and would give anple time to bona firle lumbermen to get out all large sized timber. It should be incumbent on each lessee to show his bume fiules by erecting a mill within a given time either at or convenient to the limits, unless he has a special permit to work the limits for syare timber.

The timber limits themselves should te restricterl in size to about fifty splare miles. This is now done in Manitoba by the lominion Government. The parcelling out of the timber comatry into detinite, limited areas would enable each Govermment to more systematically carry out the system of altemate leases and rests for the forests.

The prodaction of suare timber should be discouraged, on account of the great waste of material in forming the square lor, and hecanse of the additional food for forest fires which this waste material creates.
 stmmp shomlal he pmishable ly a havy fine, whid would he basily colloctable at the mills when the drives of logs come down after the spring freshets. This would have the effect of preserving the younger trees matil they attained a merehantahle size.

The starting of forest tires should he mate eriminal. Nimeterntwentiethes of the forest fires are preventihle. There is we masm why camp lives should not be put ont, and the knowlerge that to allow then to spread was pmished hy imprisomment, womlal quickly make camp parties carefnl, more expecially if every member of carh party were mate responsible.

Not only in the forests whieh have been cut orer by the lambermen, hut wherever fires have swept through areas of crown lamls mot spectally suitahle or available for sethement, rasowing or replanting shomblake place. Where homed areas are left to themselves, trees of a less desimble kind almost invariably spring mp. How to eflect this resowing and replanting eoonomically is a question of some importance. It can be done in part by the forest bungers hereifter referred to, but, I think, that as a condition of every lease of timber limits, it shouh be made incmonent on the lessee either to pay a given sum per square mile of tervitory included in his lease towards the expenses of the Forestry I epartment of the Govermment, or that le shonld actually phant and care for a young tree for every tronk he fells. This wouh not be an expensive proceeding. It would involve the cultivation of one or perhaps two acres as a forest mursery, and the subsequent setting ont of the young trees, and to this might be addel the duty of collecting and sowing throngh the forest, of seeds of desimble kinds of trees. When it is remembered that each forester in Cape Colony is expecterl, without assistance, to ammally raise 40,000 young trees, and that his duties involve the tramsplanting of these to the burned and other districts within his section, it will he ohserved that the task thus proposed to be imposed on the American lumberman is not formidable.

Lastly, each Govermment, in the case of Provinces still possessing forest areas of importance, should organize a Forestry Department in comection with the manarement of its erown lands. The objects of the Department would be:

First. The general preservation of the forests from tires, and from deterioration by improper working.

Shermb. The replanting of the arown forests where burned or exhansterl.

Thior. The encomagement of tree-phanting by lame owners genarally, and the dissemination of information about trees and tree culture.

There should be a Superintembent of Woots and Forests, whose duties should be orgaization, grmeral supervision and frequent inspeetion. Chuler him would be forest rangers or foresters, who would have given districts in which they would reside, and for the orersight of which they would be responsible:-their duties being to prevent eneroachment by hmbemen on meased crown lands; to see that small trees were not ent ; to investigate the canse of every fire happroning within their districts, and punish the ernilty parties, for which purpose they shonlat have certan magisterial powers ; to rate in a small plantation yomg trees for replanting the burned districts ; and to wollect and sow the seds of lesirable kinds of trees. Each forester would probably require the ail of an assistant. The alministration of the department need not be expensive, and whilst the expense could be readily met by a small tax per square mile of timber limits inder lease, or per thousamb feet of humber sawn, or cubic feet of symare timber produced, the saving amually of timber trees from forest fires would alone pay the cost of the department for many years.

Montreal, Oet., 1885.

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