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#### FORESTRY AND ARBORICULTURE.

BRING THE POURTH CHAPTER OF THE REPORT OF THE ONTARIO AGRICULTURIAL COMMISSION.

agement, but, in connection with the topic they | some alarm, for, from the day that the first most the confidence of his brother agriculturists poncer settler entered Upper Canada until now, substantial yeonan. To the question, whether cultivation. been rashly, recklessly, wastefully, and it may anything had been done in this district in the mon basaid wantonly, going on. direction of replanting forest trees, he replied even be said wantonly, going on.

No one seems to have stopped to inquire into the relations which, particularly in such a chinate, the trees of the forest bore to the operations of the husbandman, affected the rain and snow fall, protected the crops, or served any other purpose than to supply fence rails or cordwood.

If the farmer who entered the country fifty or sixty years ago were told he might have secured for himself at this moment, in timber alone, an amount equal to the value of his farm at the highest given price, and that he could have obtained this without sensibly diminishing the area under cultivation, he might be incredulous. But there are, nevertheless, many districts where such an assertion would hold good, where a fortune which might have been saved has been split up into snake fences or sent whirling in clouds through the stove pipe.

Meantime, while men have toiled early and late to shelter themselves and their familiesand let us hope their cattle too-in comfortable buildings, and to provide the necessaries of life, they have depraved the "staff of life" of its natural and necessary shelter, and seen, time and again, perish before their very eyes, the wheat and clover on which have depended much of their prosperity.

Small blame, it is true, attaches to the pioneer in a wooded country if he does cut and slash at facts staring them in the face, our farmers who principalities.

hitherto exhibited, and see the true state of duty or purpose of the Commissioners to discuss all, with the single exception of the California affairs in the light of self-interest, not to say the relations of the Government to the lumber-redwood. self preservation.

in an almost surprised mannet.

"We do not think that we have reached the extent. miserable condition which requires us to face that difficulty yet. We have more bush than there is in many parts of the West.

But it happened that, just before, this same gentleman had told the Commissioners, that his crop of fall wheat had been saved from winter killing by what? by the accidental shelter afforded it, not by his own, but by his neighbor's bush. But for this the merest chance one of the best farmers in Ontario would not in all probability have had enough fall wheat to pay for the harvesting. And yet he almost scornfully repudiated the idea of planting a tree.

Nor is this all. Not only have the farmers of mre existed a valuable water power, but they have been, and still are, going on very fast with the destruction of their supply of fuel. Instances have come within the observation of the Comlast stick and are actually buying cordwood.

But there is hope yet. Ontario is not the seemed to them an illimitable extent of forest, remain. There are, in the settled counties of are practically to-day the owners of the remain principally of the elm, oak, ash, bickery, farm purposes. It is destined to be in future of with, probably, a gain rather than a less in the ing timbered lands of the Provinces in all the butternut, maple, beech, chestnut, paper, great importance in the growing of populars for value of the grain crups settled districts, are in a condition of profound birch, cherry, basswood, heinlock, cedar, tama- paper making. lethargy or innocent unconsciousness of the rack, cotton wood, ironwood, whitewood or "The trees that sprout best from the stock Preservation of standing Timber on Farms dangers they invite or the losses they incur. tully tree, willow where it has not been are the ashes, class, neplars, cottonwoods, The usual treatment of the standing timber.

men, or of the latter to the settler. They look In dealing with the large and very attractive How little idea of providing against the consultation solely as it affects the interests bilty of the timber by cutting at particular of the agriculturist, and through him the Commissioners have have, was well illustrated by an incident that try, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, and while, as may be pointed out, the alternative choice, and must cut in winter, and, are the alternative choice, and must cut in winter, and, are the alternative choice, and must cut in winter, and, are the alternative choice, and must cut in winter, and, are the alternative choice, and must cut in winter, and, are the alternative choice, and must cut in winter, and, are the alternative choice with a second content of the alternative choice with a second content of the alternative choice are the alternative choice with a second content of the alternative choice with a occurred during one of the early sittings of the cultivation of the pine and other conferous by preference, toward the approach of warm have now to discuss, they have to utter words; Commissioners. The witness before the Comparison to the concurraged on various grounds, it weather but before the sap starts, as at this or warming, perhaps oven to give expression to; missioners was a gentleman enjoying beyond is with the decidnous (generally known as hard), time alone will the stumps be in best condition wood) trees they are most largely concerned, so for sending up a vigorous crop of young shoots an admirable specimen of an intelligent and far as relates to the question of timber supply or The months of February, March, and first part

It is proposed, therefore, now to notico.

- 1. The management on cleared farms of the
- 2. The economic uses of the several varieties of timber.
- 3. The market value of various woods.
- 4. The age of trees maturing, and conditions in which they are merchantable.
- 5. Tree planting including choice of trees, methods, and cost.
- belts in fields and orchards.
- 7. The planting of trees and shrubs for orna mental purposes.

### doppiecs.

Ontario destroyed property of fabulous value, young timber from the stumps of a former rather than injurious to the future crop. They in the clearing process; not only have they growth, is discussed in Dr. F. B. Hough's very should not cover more than a twentieth, or at denuded their lands of necessary protection, able report of 1877 to the United States Bureau, most a sixteentle, part of the whole surface not only have they dried up their streams, and of Agriculture. Some of the information given, same stocks will be weakened by repeated of Agriculture. Some of the information given same stocks will be weakened by repeated cut left dry ditches in many places to mark where by Dr. Hough under this head will be of practiciting, care should be taken to secure new risets cal interest in the present connection. Dr. 1 from time to time, and one means of doing this Hough says :-

"The coppice is a growth of timber of various duct is to be applied.

"This mode of cultivation is in great favor

"The coppies of short period produces hop

"The trees that sprout best from the stock Preservation of Standing Timber on Farms Still there is time even yet on many farms in wholly destroyed the walnut; and in addition willows, chestnut, linden, mountain ash, maples, on a farm, unless cleared to be used as a serve, not a few of the countries, for waste to be pre-to this the pines, balsams and spraces, in great sycamore, burches, alders, and hazel. The beach or where it consists wholly of sugar maples, in cented, danger averted, and money saved, if variety. And all these have now a recognized will reproduce but slightly, except in very unscientific and wasteful to the last degree. Its men will only shake off the apathy they have a place in the markets of the world. It is not the favourable conditions, and the counters not at a final disappearance to looked up a as inclinally,

"Whatever may be the effect upon the dura of April are generally best for this labor.

"In cutting, with the view of reproduction, the stumps should be left low, and the topbush, usually from five to twenty acres in sloping and smooth, so as not to admit water. It is sometimes the practice to dress off the stump in a convex form with an adze, taking especial care not to separate the bark from the trunk It is along this line of union, between the wood and the bark, that the young shoots start, and if separated they will not sprout.

"In the cutting of coppies woods it is often the practice to leave a certain number of choice 6. The construction of wind-breaks or shelter trees of the more valuable kinds to grow to full maturity, and thus acquire a much greater relative value than if out small. These reserves may be kept through two or three periods or 'revolutions.' They influence the joung growth by their cover and shade, and when properly The subject of coppies, or the cultivation of distributed may be, on the whole, beneficial is to bend down the tops of some of the sproutand bury them partly in the soil, by which deciduous kinds, from the stumps of a former means new roots will in some species form, and missioners, where men who took up bush land growth, and is usually cut before maturity, at when fairly established they may be separated thirty years ago have so thriftlessly managed intervals of from ten to forty years, according from the stock. Such spould be held their timber, that to day they have used the to circumstances and the uses to which the pro- down by hooked stakes, and the tops kept in position by a piece of sod."

It will be seen from the foregoing how im all obstructions somewhat ruthlessly. The early only country that has had to face the situation for the growth of firewood, and the smaller portant a source of wood supply and of income settlers in Upper Canada often found them; in this respect, and is to day, thanks to her wood used in various industries, and is the two in many cases, the gradual and judicious selves in circumstances almost desperate. They prodigious forest wealth, better off than many, means by which tanning materials are often removal of the larger trees, and the careful and had neither roads, nor markets for timber if If some choice woods are nearly exhausted, produced from the oak, where reliance is neces, intelligent cultivation of a second growth many they preserved it, and, surrounded by what many others of high marketable value still sarily had upon this means for supplies.

Him clearing up land a strip or belt become. If in clearing up land a strip or belt of timber were left on the north and west sidethey naturally took small account of what Ontario, and altogether exclusive of free grant poles, and the stakes and vine props so much of every ten or twenty acred to, and intelligently might be the state of things in the days of their territory, containing every variety of timber used in vine growing countries, and in many handled in the way suggested, not only would a grandchildren or their groat-grandchildren. But used for economical purposes, forests as exten parts of this country may be able to supply, very excellent wind break be maintained, but it is surprising to see that, even with the bare sive in area as some not unimportant. European, with but little care beyond protection, the the farm would yield two or pe annually in The woods of Ontario consist, fencing insterial and other woods required for place of one, with very little loss of space and