INFLUENCE OF FORESTS UPON STREAMS.

The Roffrarian Watchman says .- The above , is the topic of one of the sections of a very interesting report upon forestry, prepared by Dr. F. B. Hough, under the direction of the United collects the facts in support of his line of argument from a variety of sources, and we shall here avail ouselves of his labourious industry and make use of his examples to show the "influence of forests upon streams." "Mr. James Brown, of Storling, Scotland, a standard authority upon forestry " (runs the report), "in moisture, says :- 'I have frequently been surprised to find (on examining woods which had been planted some ten or twelve years, all the land under which had been considered dry at the time the plantation was made) wet spots, spreading wider and wider every year, and some of them even beginning to throw out runs of water; thus proving that under the shade of the trees the larger portion of the moisture of the land is retained, and therefore accumulates in spote, according to the nature of the sub-The reference is made to a volume, enti-Eled " Influence des Forets sur les Climats et les Sources," and published at Montpelier in the year 1874, which contains an account of certain observations prosecuted by one M. Jules Maistre de Villeneuvette during a period of 18 months in a wooded basin and in one that had been cleared, but other wise similar in soil and conditions. The former, with an area of seven hundred and seventy hectares, delivered one hundred and ten litres of water very regularly: the other, with 6.786 hectares, had a drainage of only ten or twelve litres a second, and was very irregular. He found the temperature in the open field at least 10° C. above that in woods. He noticed that, in the southern region, the cultivation of cereals is becoming more uncertain and less profitable, and that the injuries by the Phyllozera upon the vine roots were more destructive." Then the report enlists in its service Mr. R. U. Piper, from whose work on the "Trees of America" the following extracts is made by way of illustrating the return of water "Within by restoring the woodland shade: about one half-mile of my residence there is a pond upon which mills have been standing for a long time, dating back, I believe, to the first settlement of the town. These have been kept in constant operation until within about twenty or thirty years, when the supply of water be The pend oves its existance to a gan to fail. stream which has its source in the bills which stratch some miles to the south. Within the time mentioned these hills, which were cluthed with a dense forest, have been almost entirely stripped of trees, and to the wonder and loss of the mill owners, the water in the pond has failed, except in the season of freshets, and, what was never heard of before, the stream itself has been entirely dry. Within the last ten years a new growth of trees has sprung up on most of the land formerly occupied by the old forest, and now the water runs all through the year, notwithstanding the droughts of the last for years. Next a fact is montioned in connection with the Ohio River. About 1871-72, runs the report, ' the waters sank lower than had been known belore, and at Smith & Ferry, where the Fourist wanta line crosses, a ledge of rocks was land base that had not been seen before by the presum inhabitants. On this our face, from fifty to one numerou lect and several hundred saids long, inscriptions have been made, such as are ascribed to a race which densely populated the country before the advent of the recent Indian tribes. It is possible to con jecture that the clearing of forests by an scricultuminaco may have brought about the condition now existing, a long interval of neglocued culture and forest growth having since intervened." Nino years ago at a meeting of the International Congress of Land and Forest Culturists hald in Vienna, it was shown that the Rhine, the Elbe, and the Oder were all shallower than they had been in the past, and is was pointed - ut that this was directly traccable to the destruction of locois . And our last ox tract shall be from a payor read before the Royal

the author cites Palestine, Persia, Greece, Sicily and Spain, which countries are suffering on ac count of the devastation of their . rosts. To this list may be added a portion of southern Russia, where one hundred and fifty or two States commissioner of agriculture. Lr. Hough hundred years ago there existed large forests, now changed into naked plains where the bills are without water, and the population is forced to settle in the valleys. We may also montion the Volga and the Dnieper in Southern Russia, where the fores a around their sources have been cleared to such an extent that in the middle and lower portions, where these two rivers, so imspeaking of the effect of tree planting upon, portant to the commerce of Russia, pass through a wholly cleared country, the high water reaches points never before attained when the upper forests were standing. Every one knows of the changes made yearly in the bods of these rivers by the floods, and the consequent inconvenience and oven danger which these occasion to navigation. The fact is also generally known that the deep gu'fs which in summer and winter are without water, become wild torrents after heavy rains, and in the melting of snows in spring, carrying with them acres of the finest soil. We believe that these evils would have appeared in less degree if the country adjoining these rivers had not been cleared of its woods." Nor does our author in this section of his report fail to insist upon and to illustrate how the cutting away of forests touds to produce great irregularity in the rain fall and to bring about torrential rains, which run off-the surface of the ground from their very impetuosity, and carry with them the best of the soil. As coal is brought more and more into ordinary and general use in this country, and the consequent necessity to burn wood as fuel is lessened, we may hope to see some restoration of the forests and of the seasons to something of the regularity observed in regard to them for some years after the land ing of the British settlers.

CONSERVATIVE FORESTRY.

A co. respondent of the Northwestern Lumber man speaking of a projected railroad says :- I montion this enterprise again particularly because it is the initiative that is bound to open up the Adirondace, timber region in a way it was never before. Other railroads will be built. The Adirondack Company's road, projected from Saratoga north through these wilds, and to strike the St. Lawrence at some point, is now under a management that is likely to carry the project to completion. It would be a pity if the western craze for cleaning up stumpage should ever got hold of the Adirondack woods, because the country is nearly worthless for agricultural purposes, and chould be everlastingly preserved for timber growing. The Racket river lumbermen are right in one thing, that of economizing their standing timber. Aybile a little more enterprise in developing the hard wood utilization and the hemlock wealth of the region would be commendable, there is but little doubt that the spruce is being handled wiseley by the present method. Be this as it may, when capital becomes interested in the Adirondack forests they will melt away like grain before the sickle of the reaping mackine, and the men who now advocate the "North subject of tree planting and suggestions "as Woods" for a state park will be sorry by and by thick as blackberries "have been advanced in that they did not persist in it more strongly, regard to the best methods to be adopted, and and persustently, The cutting away of the Admiddlek words would be a great damage to the prove remunerative because of quick growth surrounding country, no doubt, on account of and the value of timber. The government has the effect it would have on the streams of the jeven adopted measures to ensure timber growth than formerly, in the summer after the spring flush has passed off. Were the woods cleared up entirely, or much land denuded of trees, the effect would be to reduce the volume of water in the streams still more.

FOREST GROWING.

That the great prairies of the Canadian Northwest were at one time covered with forests has been proved beyond a doubt, and a discussion is now taking place all along the line concerning the possibility of repairing the ravages created by fire from heaven or the careless hand or the number. Gentlemen who, like U. S. fover, which has as yet received no consideration, Consul Taylor, have devoted much attention

necessities of the country by forest growing. It may be of service to farmers who intend to make experiments to know that the standard work upon the subject is "The Forester," a practical treatise on the planting, rearing and general management of forest trees. A fifth edition almost entirely re-written, has just been issued by Blackwood & Sons, the British publishers. The work is written by Mr. James Brown, Inspector of Woods and Foreste, Port Elgin, Ontario, assisted by his son, Mr. George E. Brown, forester, Cumloden, Newton Stewart, N. B. In a review of the edition, the Farmer's Gozette, an Irish Agricultural paper of high standing, says that there is no other book of its kind published in the English language so comprehensive and complete, so practical and so satisfying, or so calculated to meet the wants and requirements of all engaged or interested in planting or having to do with woodlands or goodland work, as is this valuable and gener ally recognized standard w. rk. The Gazette, in the course of its ably written review, has some thing to say of the value of tree planting to the farnier and gardener, for transcribing which to the columns of the Times from such a high authority no apology is needed. "In the improvement of farms, judicious tree planting as calculated to be of the highest service. In the reclamation and improvement of waste lands it is calculated to play an all-important part, and the attempt to improve such without planting to alford shelter, is sure to be a failure. knowledge of trees and planting should not, therefore, be ignored by the farmer. It is near ly as indispensible to the better class of warden. er sait is to the professional forester, the head gardener in places of moderate extent having mostly to combine the care of woods with his other duties."- Winnipey Times.

SEIZURE OF LOGS.

For a series of years there has been more or less dissatisfaction at the way the assessments have been made by the Tittabawassee Boom Company, and last week a suit in attachment was begun to test its validity. The Boom company, has been in the habit of requiring so much per M. feet for booming and rafting the logs, and at the close of the season of allowing a re bate to the owners of logs rafted. This has caused the dissatisfaction, some holding that the company had no right to fix the price of hand ling logs higher than was absolutely necessary. Edmond Hall, of Detroit, has a large quantity of logs in the river and refused to pay the regular assessment. He offered, however, to pay the amount of actual cost of booming, and tendered the same, which was refused, and the company also refused to deliver Hall's logs. To test his rights. Hall canted all his logs to be replevined, and perterday the sheriff was busy visiting the boom and taking Hall's logs into his The outcome of the suit will be watched with great interest, Edgett & Brooks are the attorneys for Hall, and John Moore for the boom company, Sayinaw Herald.

TREE PLANTING.

A great deal has been said and written on the the kinds of trees that are the most likely to Already they carry less water on the prairies of the great west by accepting as remuneration for the land taken up by the settler an affidavit to the effect that he has a certain number of trees under cultivation on his land. While all these suggestions are worthy of consideration, and each may be possessed of considerable ment from its peculiar standpoint. yet there is ordinarily a serious impediment, so The young far as tree planting is concerned. trees before being planted cost quite a considerable sum of money, which very often puts them beyond the reach of the settler whose capital is generally his bare hands and plucky determination. There is one view of this subject, howand which appears quito feasible from a super-

ment," the principal duties of which shall be tree planting on the public domain. The trees thus planted would certainly enhance the value of the lands to a much greater extent than the cost, and would be annually increasing in value as the years massed by, and any person purposing settlement would very willingly pay the increased cost. This would also tut the lands within the reach of the settler who was devoid of capital, as he would thereby be enabled to attend strictly to the agricultural development of the land, and the surplus value of the crops, over and above what might be absolutely necessary for the support of himself and family, could be applied to the remuneration of the government for its investment. If a few of the millions of dollars annually equandored by the government in appropriations of a very doubtful character, to say the least, were expended in the direction indicated, it would tend very much to the solution of the problem which is bothering the brains of many of our best citizens, viz. forest production. Besides the climatic considerations involved are of inestimable value, and absolutely beyond the range of computation.-Lumberman's Gazette.

CANADA AND THE UNITED STATES.

The Chicago Northwestern Lumberman says: At the time a representation of Chicago. Inm. bormen appeared before the United States tariff commission at the Grand Pacific Hotel, this city, considerable was said about the low rate of wages in Canada as a reason why the lumbertariff should be abolished. Mr. Van Schaick alluded to it in strong terms, and asserted that there was so much difference between the cheaplabour of Canada and the comparatively high rate of wages in the States, that the removal of the duty on lumber would make it very hard, ifnot impossible, for the lumber producers of this country to compete with those of the Dominion. The argument would have been a strong one if it had any basis in fact. But the truth is that since the Manitoba boom began, labor in Canada has been neither plenty nor cheap. A representative of the Lumberman was lately in Ontario, and was informed by the best authority that the supply of labour was positively not equal to the demand in that province, and that eading industries have been considerably crippled the past season because of that fact. It was also stated that the operators in logging camps and mills have been unable readily to obtain all the help they have required this season. This scarcity of men has enhanced wages. which are nearly or quite double what they were two or three years ago. The truth is, a great industrial change has come over the Dominion, on account of the opening up of the new North West to settlement, and the building of the Ganada Pacific road, and it will not do hereafter to judge of the tariff or any other question affecting our relations with the Dominion by old time standards. The Canada of the future is to be sivery different thing from that of the past

Polished Woods,

Black woods have come into great demand, and are growing in : opularity. Ebony is im: tated and excelled by a charcoal polishing process, which of course adds to the demand for other woods than abony. Carefully selected worsh of close and compact grain are used, and carefully polished, a chemical process quite complicated being followed, and when finished the words have a dead black color, sharp, clear cut edges, smooth surface, and apparently the density of coony. The polished wood is held to be more serviceable than abony, and will not tarnish like gilding, or grow yellow like woods that are not so polished, while it is always a neat finish, agreeing happily with the other decorative elements.

THE construction of the branch of the Can ida Atlantic Railway to the Chaudiere lumber yards is being rapidly pushed forward.

A LONDON Druggist says. "during the nany years I have been in the drug business, I have never had a medicine that gave such genuary, 1876, and for which also we are indebted that no scrious obstacles stand in the way of to Dr. Hough's report, "As a warning example, ameliorating the climate and ministering to the this subject itself, through a "forestry departing of the subject itself, through a "forestry departing the climate and ministering to general section from a superindicate from a