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THE BINGS OF TREES NO INDEX TO

recently made, that is calculated to upset a theory which has hitherto been accepted as furnishing an authentic rule for ascertaining the age of trees.

We take the following from the CANADA LUMBERHAN, a very well conducted paper, which seems to take particular care to keep its readers well posted up as to the state of timber Peterborough (capital of the county of that name, in Ontario), and claims to be "the only newspaper de-sted to the lumber and timber industries published in Canada."

"An interesting observation on tree rings is recorded by Professor Bachelart, in La Nature. During a visit to the ruins of Palenque, Merico, in '859, M Charnay caused all the trees that hid the facade of one of the pyramids of the palace to be cut down. On a second visit; in 1880, he cut the tress that had grown since 1859, and he remarked that all of them had a number of concentric circles greatly superior to their age. The oldest could only have been twentytwo years of age, but on a section of one of them he counted 250 circles; the tree was 60 to 65 ctm (about 2 English feet) in diameter shrub, eighteen months old at most, had 18 concontric circles."

"M. Charnay found the case repeated in overy species and in trees of all sizes. He concluded that in a hot and moist climate, where nature is never at rest, it may produce, not one circle a year, as with us, but one a month. The age of a monument has often been calculated from that of trees that have grown on its ruins. For Palenque, M Larainzar calculated 1,700 years, having counted 1,700 rings in a tree. M. Charnay's observations require the number to be cut down to 150 or 200 years, making a conwiderable difference-1,500 years. Prof. Bachelart asks whether M. Charnay took account of certain coloured rings which some tropical trees present in cross section, and which are to be dis tingushed from the annual circles."

If this be so-and it must be observed we have only one witness yet - the learned in ar boriculture, ancient and modern, have been at least doubtful, if not false, teachers. And if this deviation from the old rule is peculiar to "hot and moist climates," where shall we draw the line? There must be some intermediate stage of average barometrical temperature at which this perplexing change commences in the development of tree growth, or is the whole hypothesis imaginary, and no rule at all?

This important question cannot be allowed to Professor Bachelart, will have to be either con

THEIR AGE.

to call them, experts, is likely to result from it. country denuded of forests have occurred in the associated and experienced authorities when in Mauritius, in Jamaica, the Azeres, and, it may feet, when we confine country comments and it must be remembered recently made that is calculated to unset a struct us on the peculiarities of vegetable be also added, to a still more remarkable execut. Increase particular forms and it must be remembered and a still more remarkable execut. growth in the pages of our very useful contem in several of the smaller West India islands, that the importations for the year are not comporary, the Journal of Forestry, will doubtless. No souner had the forests of these places been pleted, and they are the figures will protake up the subject and sift to the bottom. destroyed than the springs and revulets ceased bably reach 65,000,000 feet. It seems almost impossible that two theories so to flow, the rainfall became arregular, and even Accepting these figures as representing the opposite to each other can both be true, and, if the deposition of dew was almost enemely check, lumber business of 1882, let us look ahead and

FORESTS AND CLIMATE.

A paper has been prepared by Dr. Schom burgk, the Director of the Botanical Gardens at Adelaide, on the influence of forests on climate. The object of the author is to prove that the destruction of forests usually has the effect of planting of trees broadcast over a country is one of the best metnods which can be adopted for ameliorating its climate and increasing the an nual fall of rain. It cannot, indeed, be pared that the climate of South Australia is altering for the worse in this respect. In fact, a com parison of the meteorological records will show that the annual average rainfall for the colony during the past ten years has been 21'1 inches, as compared with 201 inches for the previous ten years. The fact is, that in the agricultural districts of the colony, and especially in those which were not originally timbered, the bring ing of the land into cultivation has had the effect of slightly favouring the fall of rain. Plowed land attracts moisture to a much greater degree than unbroken soil. In considering the effect which the removal of the forests per se has in altering the climate in South Australia, the only direct test that could be taken from the records issued by the Government Astronomer is the experience of the neighborhood of Ade laide. If the time is divided which has elapsed since 1839, the year in which observations were commenced, into two periods, there is found for for the second one of 217 inches. It will thus

to unlearn all we have been taught about them: noteworthy circumstance that the rainfall rose, feet to which must be added 7,000,000 feet now were. - Architect.

WINNIPEG LUMBER INTEREST.

The Winnipeg Commercial of the 21st of Nov. used for building and such purposes," it goes on to say :-

"In local manufactures only one saw mill has has run steadily during the season, and its produring the present years 26,000,000.

Ontario and the United States, we have con- of lumber available for the Winnepeg market the first an average rainfall of 22 8 inches, and sulted the lumber dealers and manufacturers of in 1883 will not be less than 130,000,000 feet. be seen that, on the whole, the rainfall at the season reach 29,500,000 feet. The heavest are based upon carefully collected statustics, Adelaide is diminishing, though very slightly, importer of the twelve has a gross of 10,000,000, and are certainly not exaggerated. The lumber and perhaps the diminution in the amount of feet, and the lightest was 750,000 feet. The trade of a new city is one of the most reliable timber may have something to do with the amount imported by private parties we can only indexes to its prosperity, and with the forechange. Dr. Schomburgk, in searching for illustrations of the effect of trees on climate, goes applications applications at 3,000,000, which would bring challenge any city on the American continent, forther afield, and brings forward some striking the gross imports 3,000,000, which would bring in the universe, to show such unmissionable to the prosperity and with the continent, the gross imports of the season up to the prosperity. instances, in which it is evident that loss of for-sent date to 32,500,000 feet. In these figures we takente signs of rapid growth and developest means loss of rainfall, and vice versa. He do not include importations made by the Cana-ment." recalls how the Russians, by burning down dian Pacific Railway direct, and the aggregate romain in its present unsatisfactory state. The some of Transcaucation forests at the time of of these which have passed through Winnipog ABOUT 140,000,000 feet of logs were rafted the account given by M. Charnay, as recorded by the struggle with his Circassians, converted the must reach several million feet for building purposes at the Tonobscot boom. The logs country from a fertile land into a desert, simply poses, not to mention the millions or ties and railted at the Danger boom amount to 18,000,000 tradicted or confirmed; and a very pretty con: through the outling off of the supply of rain, other tough lumber. The total lumber trade forty

troversy among adopts, or, as is now the fashion Similar instances of rain having deserted a for Winnipe, for 1882, up to the present date,

there be found a connecting link between them, od. On the other hand, it is generally accepted, see what the prospects is for 1883. The local how shall we know to which side of it our speci a fact that Mehemet Ali increased the fortil dealers and manufacturers have arrangements men may belong! Hitherto these "concentric ity of Egypt enormously by planting trees. He made for getting out the following quantity of bertrade in the British Isles. It is published at circles "in trees were as religiously behaved in alone planted some 20,000,000 on the Detta, has logs during the present winter. For the use of Peterberrough (capital of the county of that as the revolutions of the planets. Are we now successors followed up the work, and it is a the mills of the city about 16,000,000 million from six to forty inches. Planting has also, it on hand, with which to commence operations as would seem, produced remarkable effects in early in spring as possible. Thus a total of 23,-France and Algiers. Extensive regions have 000,000 teet of logs will be at the disposal of been planted with gums and other trees, which, city manufacturers, which is within 3,00,000 ft for the most part, grew to about 30 feet or 40 of the capacity of their mills. There are seven feet in height, and it is noticed that the quanti- mills who have contracted their products for the ties of rain and dow which now fall on the ad- Winmpeg market for 1883, and the gross capacreducing the minfall, while, on the contrary, the jacent land are double what they formerly ity of these for the season is somewhere near 70.000.000 feet. Arrangements have been made to get out for these mills during the winter over 57,000,000 million feet, or within 13,000,000 feet of their capacity. These figures give a grand as an article on the extent of the local lumber total of 78,000,000 feet of lumber manufactured trade during the past season and its prospects in , in the North West, which will be available for the succeding one, in which, after warming its the Winnipeg market during 1883. Should the readers that its "figures only respresent sawed importations from the United States and Ontand dressed lumber, which has been or is being arm for that year show a corresponding increase over 1882, they would reach over 97,000,000 feet, which would raise the total lumber trade of Winnipeg for the coming year to 175,000,000 feet, or nearly three times as great as that of ducts since the opening of 1882, amount to 9, the present. There is reason to believe, how-000,000 feet, 1,000,000 of which was oak. Other ever, that the imports of 1883 will not increase two manufacturers who have only run for a as rapidly as local manufactures. The milling small portion of the season, have produced 4, capacity of the North West has made rapid 500,000 feet, making the total product 13,500, growth during the present year, and railway 000 feet. The lumber purchased at other mills communication has, and is still opening up lumin the North West and handled by parties in | per districts of the country which have nitherto Winnipeg figures, up to 12,500,000 feet making been closed to the Winnipeg market. Making the gross trade in domestic lumber for this city a liberal allowance for the gain which local monufacturers will make on imported goods In reaching figures on lumber imported from there is every reason to believe that the supply the city, and their aggregate importations for These figures seem almost fabulous, but they

ABOUT 140,000,000 feet of logs were rafted the