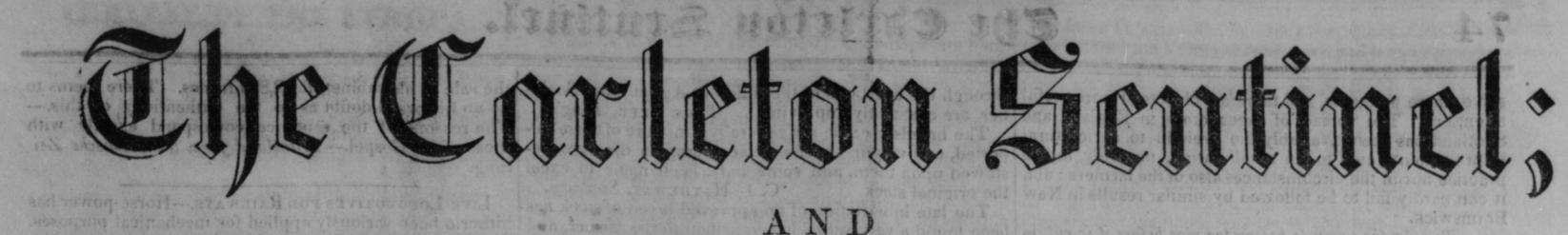
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# REPORT ON THE AGRICULTURAL CAPABILITIES OF THE PROVINCE OF NEW BRUNSWICK. BY J. F. W. JOHNSTON, F. R. S., S L. & E. (Continued from our last.)

## TUESDAY, AUGUST 27, 1850.

. "Sunbury and Queen's possess very fine productive and lessening the comfort of the farmer, and increasing hist extensive tracts of island and intervale land. This gives consumption of fuel. many of the inhabitants a decided advantage over those f. Waste of manure—How this waste, originating at first who, in other places have no such privelige; and although in the ready growth of crops without manure, becomes a there are in both these Counties many well conducted and habit of the farmer and his children, as appears from the debted for their success in farming to the natural fertility which I have quoted from Mr. Brown. of the soil, and to the overflowing of the River St. John, than to their own advancement in agricultural knowledge. First, by making him believe that manure may be safely Westmoriand and Albert posses, in like manner, very ex- wasted, and that it is the fault of the land if it does not protensive and valuable marshes, made by the tides of the bay duce good crops without manure ; and, Secondly, after his of Fundy, which, besides other produce, yield annually mind is disabused by instruction or experience upon this vast quantities of hag. This enables the inhabitants to point and he has begun to add something to his land, by keep large heards of cattle, and flocks of sheep, by means causing him to overlook or intentionally to pass by, many of which they have obtained the name of being the richest opportunities of collecting or saving manuring substances, farmers in the country. Unconnected with those marshes which though individually small in quantity are large in there are some good tarms ; but like the people of Sur bury the aggregate, and in the course of the year would add and Queen's, though some of them possess beautiful and considerably to the means of enriching his fields-thus, well cultivated farms, the greater part of them are more his liquid manure runs to waste; the rains wash his dung indebted to the natural fertility of the soil, and to the tide heaps in his stable yard, and too often the lesser heaps, waters of the Bay of Fundy, for their wealth and success, after they are laid out in the fields, and before they are than to their own skill and progress in agricultural im- ploughed in; his straw is not carefully saved and convertprovement." After these details of Mr. Brown, both as to the general various kinds, such as potato and turnip tops, the straw of mode of husbandry in the Colony, an as to the differences buckwheat and Indian Corn, the bones of his stock, the in skill and advancement which are visible in the practice scouring of his ditches, &c., are made comparatively little and in implements of the different Counties, in which I use of, if not entirely neglected. generally agree. I shall only add a few brief observations on the more essential defects visible in the mode of man-ging and manuring the land, and in the kind of crops grown which, even where regular manuring is practised, would upon it in successive years.

well cultivated farms, the bulk of the people are more in- history of the prevailing mode of clearing and settling land

This habit affects the practice of the farmer in two ways :

But, as it is to be expected, the above remarks do not apply equally at the present moment to all parts of the Province. Differences of soil, skill and energy, and even diversities of blood, have gradually introduced marked differences also in the practice and produce of different districts. On this point also I introduce some observations handed to me by Mr. Brown, in preference to any of my own. They relate chiefly, it may be seen, to what may be called the externals of agriculture :---

" At the present time, the degree of skill manifested in farming, and the extent of progress made, are more owing to casual or accidental circumstances, than to the relative advantages or natural capabilities of the land in the different Counties. Foremost in agricultural improvement stands the County of Northumberland, where thirty years ago it was confidently affirmed, that as soon as the pine timber disappeared the inhabitants would disappear also. In Newcastle, Douglastown, Chatham, and Napan, in particular, the appearance of the fields, the ploughing, the implements of husbandry, stock, buildings, fences, &c, all is slightly done. The ploughing especially, is shallow, indicate an advancement in agricultural skill beyond what because it is in this way most quickly performed. is to be found in any other part of the Province.

"In the year 1846 fifteen thousand bushels of wheat were ground in the Chatham Mills, which had been grown County, the ploughing seldom exceeds three or four inches. in that quarter. These improvements had cheifly arisen

advantages superior to Northumberland; stand about equally the two Counties of Gloucester and Restigouche, flanked three or four inches of new soil, would renovate and restore already adverted, when considering the effects of the New by the bay of Chaleurs and the Restigouche river, and the worn out surface, and put the farmer in a condition for Brunswick winter upon stock, and the means of employing forty years ago deemed only a fit habitation for wild geese beginning a new and less exhausting mode of culture, the winter season profitably to the farmer. I shall in a and beasts of prey. In agricultural skill and improvements with the prospect of permanently retaining his land in subsequent chapter return to the subject of feeding. the inhabitants are very little behind those of Northumber- good condition. land; and the farm of Mr. Ferguson. at Bathurst, is one of The trench plough is deserving the attention of Agricul- must be prone to produce abundantly from the large returns the best managed in the Province. In these two Counties tural Societies, as applicable to the improvement of deep which the farmers expect and actually rob the soil of, after as well as those in Northumberland, the success has un- loams, according to this principle. In many other cases once manuring. I visited the farm of a most intelligent doubtedly arisen from the skill, experience and example where it would be unsafe at once to bring up the under gentleman, one of the best farmers of his neighbourhood, of old country farmers. There are many settlements of soil, because of its noxious qualities, the use of the sub-soil and I believe most desirous to improve, who informed me Acadian French in the County of Gloucester, and although plough, made light so as to follow in the furrow of the that after one dressing with mussel mud from the sea bank, they occupy some of the finest lands, and have held them common plough, would be eminenly beneficial both to the not far from his farm, he had taken one crop of potatoes or for a long time, they are very far behind their fellow sub- root and corn crops. jects of British origin in agricultural improvement.

the Counties of Charlotte and Saint John, may be ranked perfectly performed to a much greater extent than at pre- an application, a British rent-paying farmer would have togther. The town plat of Saint Andrews, and several of sent is generally the case. This autumn ploughing not been thankful and content, and in taking these he would the towns within that Parish, with several others in the only lessens the labours of the ensuing spring, and thus have been thought rather hard upon his land too. other Parishes, are not much behind those of Newcastle forwards the work at a pressing season, but it buries again b. The repeated succession of crops of grain is open to and Douglastown. The same may be said of many farms the manure of the potato fields, which the digging of the similar reprobation. In remote districts of Scotland and in the vicinity of Saint John, and a few in the other parts roots brings to the surface; it also exposes to the amelio- England the practice may be found still lingering, but it of the County. 'The soil of these two Counties is not ge- rating action of the frost and of the winter air, the under brings on ultimately a species of exhaustion which is exnerally so well adapted to farming pursuits as that of the soil which the plough has brought up. other two Counties. In Charlotte the progress of improve- c. Draining, by means of leading drains, called French c. The want of rotation of crops is evident wherever the ment is mainly attributable to the exertions of the Agri- drains in this Province, or by smaller drains, open or above mentioned practices of taking successive hay or

1st. The mode of managing and manuring the land.

a. Shallow ploughing .- It is a consequence of the want of sufficient strength upon a farm that the work in general

This observation is true of all countries.

In New Brunswick, according to Mr. Simonds of York

from the labour and skill of men bred to farming in the the system of husbandry followed in the Province is essen- This I believe is generally acknowledged; but the plea of mother country, and from the beneficial effect which their tially an exhausting system, but the practice of shallow

In very many cases a deeper ploughing, by bringing up

ed into manure : and animal and vegetable matters of

2nd. The kind of crops grown upon his land. As regards his crops, the New Brunswick farmer follows a system injure the land, and which is therefore condemned and avoided by all good farmers; but which, combined with the waste of manures, and neglect of manuring, is certain to entail an early exhaustion.

I mention particularly-

a. The repeated successive crops of hay which are taken year after year from the same fields.

This custom, which is characteristic of these North American Provinces, and has been naturally fallen into in consequence of the necessity of providing a large supply From the observations of Mr. Brown it will be seen that of winter food for the stock, is very injurious to the land. example has wrought in a portion of the native population. ploughing makes the exhaustion of the surface more rapid ever to cut hay off the same land year after year, without returning to it any manure; neither is it necessary to feed the stock altogether upon hay. To these points I have

turnips, one of wheat, and eight successive crops of hay, and b. Autumn ploughing-From the experience I have had he seemed to think that the land had used him ill in not "The soil, capabilities and agricultural advancement in of the New Brunswick Fall, might be advantageously and having given him more. For the first four crops from such

ceedingly difficult and expensive to repair.

cultural Society. In agricultural advancement, as indicat- covered, is in many localities much required before deeper grain crops prevail. But generally throughout the Proed by the ploughing, the implements of husbandry, stock, ploughing or sub-soiling can be advantageously or econo- vince the neglect of a proper and profitable rotation must be reckoned among the defects of the prevailing husbandry. The want of drainage, so universal over many of the old Wherever the system of regular and copious manuring countries of Europe, cannot be a matter of special reproach takes root as an indespensible means of melioration, a well to the farmers of the New World. It is rather to be re- considered rotation of crops must accompany it, if the full commended to them as a practice which all experience benefits of good manuring are to reward the farmer's labours. d. The small extent to which green crops are cultivated, tried, and which has also been found, and for this reason may be mentioned as a special defect in the agriculture of cultivated and productive-in all three of them settlers is, deserving of their especial consideration. I shall have a country, which by its climate and soils, seems well adapted to their growth. I believe that recent experience d. Imperfect cleaning of the land is another defect which is gradually spreading the conviction, that the cultivation his cattle better, and will thus be led to improve his breeds ing the fields and crops, as injurious to the stock, and as after the green crops, will make these grain crops them-

fences, buildings &c., Carleton, King's and York may all mically introduced.

be put in one class. Carleton has the best soil, King's the best market. The natural capabilities of the soil of both these Counties are very great. The buildings and fences in the Counties of King's and York, taken together, are better than those in the County of Carleton. In all three are to be found excellent farms, well managed, and well ing every attempted improvement an innovation.

resources, and contains many good farms, and some good farmers ; a considerable portion of the farmers are Acadiar but must on the whole be more economically farmed. French, who, like their brethren in other parts of the counury, and alow to adopt any of the modern improvements.

has shown to be productive of profit, wherever it has been occasion to return to this point hereafter.

"The other five Counties, wiz. Sunbury, Queen's, Kent. the stranger remarks in New Brunswick farming. If double of green crops is not only likely to succeed, but likely to Westmorland and Albert, do not differ materially in their labour applied to the cleaning and preparing of one acre be profitable also to the farmer and to the country in a make it produce a double crop, it must not only be plea- variety of ways. To raise them the farmer must prepare, santer to look upon than two acres half filled with weeds, must save, and must husband his manures; he must feed e. Neglect of shelter, I have already alluded to, as stary- of stock ; while the better harvests of grain he obtains