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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.)

fly usually deposits its eggs.

and in many more from the rust.

c. The floating of the seed, immersing it and stirring it market?

the heavy and sound ones ;-and

d. The steeping of this heavier grain in salt and water

lime or burned gypsum.

shores of the Bay of Funday, where fogs and mists prevail, back? it is most subject to the attacks of this pest—upon the river islands, and along the intervals which skirt so many of the North American streams—in the neighbourhood of cedar between Saint John and Shediac, it is stated that "the But if the comparative productiveness of the soil of New Brunswick.

Oswego.

In Mr. Wilkinson's concluding Report on the But if the comparative productiveness of the soil of New Brunswick. swams, and around the borders of boggy carriboo plains, " wheat crop was formerly certain and abundant in the Brunswick, as represented in a preceding part of this reand the edges of mershy lakes,—the rust most frequently "valley of the Kennebeccasis. It was sufficient not merely port (Tables IV. and V.) be correct, and if the rate of wages appears, is most feared, and is most destructive. It is con- "for the producers, but a large surplus was annually sent given in Tables XXXVII. and XXXIX. are to be dependbecause while the insect destroys only the grain, the "descriptions imported. The soil now refuses to bring cessfully with the United States farmers, and to drive them The only known remedies or palliations are-

a. Early sowing, with the view of having the wheat "bas taken place." nearly ripe before the season of the most fatal mists and

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be attended with like good effects.

throughout Northern America, and the consequent gradual Province. But like the wheat midge and the rust, this inretrocession of the wheat exporting regions of the shores of fection has not been special to New Brunswick, among the the produce markets may be improved-labour may be the great western lakes, and to the western territories of American Provinces, and States; not can it be considered profitably employed by all who desire to farm more largely the United States, is important enough to merit a much a valid cause for dissatisfaction with his own homestead, -emigration from the Province, so far as it is to be regretmore length ned discussion than I should be justified in or a reason why the New Brunswick farmer should forsake ted, may cease—the wheat midge, the rust, and the potato is troducing here. There is one phase of this question it, and flee to other countries in search of more fertile disease may all disappear: The circumstances of the farhowever, which is important to this Province briefly to fields. consider. I shall draw my illustration of it from the Province of Lower Canada.

three years 1827, 1831 and 1844, ie nectively

ance jeans	Town, Took and	TOTT, AC POCULA	Cly. c.
aviguar dia	ds 9/1827.001 9	1831.	1844. od
Wheat,	2,931,240	3,404,756	942.835
Oats,	2,341,529	3.142,874	7,237,753
Indian Co	rn, 383,150	339,633	141,008
Buckwhea	at, 121,397	109,050	374.809
Barley,	363,117	394,795	1,195,456
THE RESERVE OF THE PARTY OF THE	AND RESIDENCE OF THE PARTY OF T	THE RESIDENCE OF THE PARTY OF T	CONTRACTOR OF THE PROPERTY OF

From this Table it will be seen-

buckwheat had even diminished one sixth. This implies coming even to the poorest of these suffering settlers. that during those years the wheat and oat crops were the HIL. The want of protection from foreign competition. most profitable, but that some unpublished influence was I allude to this as an alledged cause of depression to their attention to oats, in comparison with wheat, somewhat tion having been specially called to it by one or two of

I am not aware of the publication of any agricultural "legislation." b The use of varieties of grain and seed brought from statistics of the States of the Union which exhibit so indistricts in which the insect has hither o been unknown - teresting a series of changes as this. How much agricul- been able to learn, they are owing-The use of seed from affected localities has no doubt been tural distress-how much disappointment and loss of crops pening west mines

plant from Canada? Is it the ruinous husbandry of the II these evils be overcome, enough of Spring wheat at least or in water containing in solution certain quantities of. French Canadian which has so exhausted his land that it may be grown to supply the home market.

now produce so much wheat as formerly, and that the regulations, the adoption of which could not fail to produce b. General arterial drainage of swamps and marshes, and raising of wheat has ceased to be certain for profitable in an effort very unfavourable to the North American Colonics special thorough drainage of low and wet lands upon which many of the older States of the American Union. The far at a time when they are complaining so loudly of the illiwater rests, or where mists in the summer evenings are the above extract is correct. But the crops of 1849 have beral tariff of the United States, and of the twenty per prone to settle. Such draining, even on the margins of shewn that the soil of the Kennebeccasis still possesses the cent. duty levied by them on the agricultural productions rivers, will often be found efficient; but I cannot from ex | power of "bringing this crop to maturity." Whatever may of Canada, New Brunswick and Nova Scotia. perience say how far the injurious action of mists from the be the case in Lower Canada therefore, (if the midge and Of the various circumstances I have considered in the Bay of Funday would be mollified by such improvements. the rust can be conquered) there is still hope, when sea- present and the preceding chapters, several have no doubt I can only infer, that as in all circumstances mists collect sons favour and the husbandey is properly adapted to the had much influence in rendering the agricultural body less and settle most heavily and most frequently on the coldest | soils, that New Brunswick may recover from the depression | prosperous, the agricultural interest less influential, and and comparatively on the wettest spots, the probability is under which its wheat crop has during the last few years the agricultural capabilities of the soil less appreciated in that such treatment of the land along the bay shores would been labouring. What the agricultural adaptions are, New Brunswick, than under more favourable conditions which the present condition of the soils demand, will be they would undoubtedly have been. But it will be seen c. The introduction of more hardy varieties of wheat, or adverted to in a subsequent part of this Report.

This quest on of the wide failure of the wheat crop and very much retarded the agricultural progress of the agricultural exertion.

its most grievous form, would be only limited in its intrinsically the same. In this Province the Produce of wheat, oats, Indian Corn duration. Its severity has now, it is to be hoped, in a great this year in New Brunswick seems to hold out the promise most important plans and calculations. I dan MARKARO

a. That from 1827 to 1831 a gradual increase of the more or less steeped in their original poverty, and were wheat and out crops took plece, more in proportion in the unable therefore to endure the cruel vicissitudes of three oats than in the wheat however, while the Indian Corn, or four years of successive visitation. With the new buckwheat and barley were nearly stationary. That of hopes and new energies now awakening, better days are

already at work, inclining the French Canadians to turn New Brunswick agriculture, in consequence of my attenmore than formerly. Thus Mr. R. K. Gilbert, of b. But that from 1831 to 1844 a remarkable revolution Dorchester, writes-"If our farmers had the supplying of took place in the kind of cropping found most profitable in "our home markets with meats, bread-stuffs, and home pro-Lower Canada. The growth of oats increased from 3 to 7, "duce, without the prospect of competition with the United millions of bushels, while that of wheat diminished from "States, they could then calculate on increased sales, so 34 to 9 hundred thousand bushels. The growth of Indian "so as to pay labourers; but as it is now, they are paracorn also underwent a diminution similar to that of wheat "lyzed, and the circulating medium of the country is con-felling off from 339 to 141 thousand bushels. In the "stantly drained, and sent abroad to purchase articles a. Late sowing, by which the development of the young same period, buckwheat and barley both increased to three "which can be produced at home; and our lumberers eat grain is retarded until the season has passed at which the times their former growth. Is foreign produce, and are induced to do so by free trade

In regard to the imports of provisions, so far as I have

1. In the case of salt provisions, to the fact that the beef one of the causes which has contributed to its rapid spread __how many disheartened men and starving families __how raised in the Colony is of an inferior quality, over this Continent; while on the other hand, the intro- many mortgages, sales, and transfers of property will scarcely bear the salt, and cannot compete in quality duction of the variety called Black Sea wheat, is said to have preceded and accompanied so entire an alteration in for shipping purposes with the beef and pork produced in have in many places saved the wheat crop from the midge, the general direction of agricultural industry, and in the certain parts of the United States. The remedy for this kinds of produce the growers were able to send into importation is to improve the quality of the fat stock which lare intended for the purpose of curing.

in water, so as to separate the light affected grains from What is the cause of this great change? Is it the wheat 2. In the case of wheat, to the failure of this grain in New midge and the rust which have almost driven the wheat Brunswick, owing to the attacks of the midge and rust .-

nitrate of Soda, or saltpetre, or sulphate of copper, (ble can no longer supply the wants of the wheat crop, and 3. In the case of wheaten flour, to the extravagant habits vitriol,) and afterwards drying the steeped seed with slaked minister to its healthy growth? Or is it some unobserved of the lumberers, who have always been accustomed to alteration in the climate which has rendered the country superfine flour, and to the prejudice among other parties 2. The Rust is complained of as having been very des- unpropitious at once to the wheat, and to the Indian Corn? against flour manufactured in the Provincial unils. The tructive to the wheat crop in many parts of the Province, Has the culture of wheat been expelled forever from the care for this importation is to encourage more the conas well as in the Canadas and in the States. Along the shores of the Saint Lawrence, or can it again be brought sumption of out-meal and of buckwheat, until the growth of home wheat increases again, and to patronise the proespecially in the latter periods of the plants growth, when I do not dwell on these topics, but I return to the wheat vincial mills in preference to those of Rochester and

sidered a worse foe to the farmer even than the midge, "to market, in appearance and quality surpassing the best ed upon, this Province ought to be able to compete sucfungus mjures or destroys both straw and grain together. "this crop to miturity, just as it is found to do in the from its home markets. I believe that a little more skill, "older parts of the United States, where similar exhaustion energy and determination among the landholders of this Province, combined with a more hopeful spirit, would ren-It is certain that the banks of the Kennebeccasis do not der unnecessary the discussion even of restrictive fiscal

that all these circumstances are independent of and extrinsuch as from some peculiarity are less subject to be rusted. 3. The Potato Disease here, as elsewhere, has confess- sic to the natural capabilities of the soil itself, and that Of this kind is the Black Sea wheat, which has been found edly paralyzed the rural industry of many districts, greatly they do not in reality determine or permanently interfere to escape where other varieties were almost destroyed. | added to the other distresses, especially of the new settlers with the natural adaption of the Province as a field for

> mer would no doubt be improved by such changes, but the My own persuasion has long been, that this disease, in natural capabilities of the soil and Province would be still

Now whilst these varied circumstances have been acting and Buckwheat and barley, was as fellows, in each of the measure been allaged, and the produce of the potato crop as I have said, more or less injuriously upon the interests of the farmer, it has been very satisfactory to my own mind, of a well-founded renewal of that confidence in this root, and has disposed me to take upon the whole a less unfawhich has hitherto formed the basis of many of the farmer's vourable view of their evil influences-that the unanimous reply to all my inquiries in every part of the Province has In regard to the various maladies of the wheat and pofato been "that those who have confined themselves to their farmcrops, it is to be observed, that the reason why they have ing operations alone, and have been ordinarily skilful, indusso seriously affected New Brunswick, has been that so trious and prudent, have in no case failed to do well." In many of its inhabitants were new to the country, were still the midst, and in spite of these evils therefore, there is still