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AGRICULTURE.

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

CHAPTER XVI.

Suggestions as to improvements in the practice of individual farmers.

After what has been said in the preceding Chapters on

TUESDAY, OCTOBER 8, 1850.

the Province all at once What they do learn also they then used for enriching the manure or feeding stock .--will naturally doubt, until they have seen it actually ap- Hemp also is cultivated both for fibre and for the seed, plied to, and actually causing more profitable crops to grow which is also crushed and used as the seeds of the flax, upon the land. It is therefore by a system of trials that the sunflower and the poppy are. It is worthy of trial general confidence will be obtained in this or that method whether in some parts of the Province these crops could not of improvement. The distinction between the man who be profitably grown. desires to improve-to advance, which is a sort of condi- But among plants, the success of which in some parts of tion affecting all material things in North America at the the Province is less doubtful, I would particularly mention present time-and the man who is content to sit still, is the broom corn. This crop is extensively cultivated, that the first endeavours to acquire information, and having among other localities, in the valley of the Mohawk, in obtained an inkling of new knowledge-perfect or imper- North Western Now York, and is said to be a very profitfect-shews a disposition to make use of it-to make trials able crop. This valley is also celebrated for its growth of the subject of individual practice, it will be necessary for of the methods of advancement in his own walk, which the Indian corn. It is distinguished as a corn region in conme now to touch upon many things which would otherwise knowledge suggests. The maker of agricultural experi- trast with the rich wheat bearing country further west. I ments, therefore, is the man who is acquiring knowledge- infer therefore that those parts of New Brunswick which, By an improvement in practical agriculture, I understand is thinking how he can apply it most usefully to himself, like the County of Sunbury, are most adapted to the cula change in practice which shall enable the farmer to raise and is testing the opinions and recommendations he may ture of Indian corn, would be likely to grow also good larger or more valuable crops from the same extent of have heard or read, by the practical means which his farm crops of broom-corn. It is therefore deserving of more land than before, or to produce equal crops at a cheaper places in his hands. It is a favourable sign of the diffusion extensive trials than I believe have yet been made in New rate without permanent injury to his land. To the practi- of knowledge, and of the awakening of thought and dormant Brunswick. The tops of the seed stalks, which are gathercal man therefore, I wish to recommend nothing, which if intellect among the agricultural community of a country ed, are made into brooms, and from these the farmer's profit rightly performed, will not in my opinion be the means of when the habit of experimenting prudently and economically, is seen to diffuse itself among them. What I have said in my suggestions to agricultural The use of hme is recommended by many in the Pro- advantage in the feeding of stock. Societies in regard to draming-deep and subsoil plough vince of New Brunswick, and as I think with reason .ing-green manuring-the use of bones-the saving of The advancing man will therefore try lune on a small piece waste materials for the manufacture of manure-the cover- of his land, if he doubt its efficacy and his means are ing of manure from the action of the rains and snows in small. He will try it in various ways, applied at different the fold yard, and from the washing of the rains when laid times, to different crops, and in different soils, and the reupon the field-of the use of Eme-of ar earlier cutting sults will determine hun as to whether it would be proper a district. Good stock necessitates good feeding. Much of the grain crops-of improving the breeds of stock-of a or profitable to use it on a larger scale. Again, in many stock and good feeding produces much and rich manure. better housing of the cattle-of the growth and use of parts of North America, gypsum is extensively applied to Ample manuring enriches the soil, and causes it to produce green crops, linseed, and prepared food during the winter the land. Will it pay to use it on your farm in New months-of more diligent and more extended fall ploughing Brunswick? It has been occasionally so used, as the fol- hay, or roots, afford the materials for abundant feeding, and -of the value of agricultural journals and books-all this low replies to my queries show :is intended as special advice also to the individual farmer. Some years ago gypsum was employed to some extent Each man can exercise a far more direct and beneficial as a top dressing for grass land, and with good effect, but against improved breeds of stock. Thus Mr. Hubbard of influence-beneficial to himself and to the Province-over from some unexplained reason it is now laid aside. BOBERT GRAY, York. they are placed. The improving farmer indeed does good green crop fields. I find the oats and wheat raised on the shelter, and horses the same." I infer from these words of in two ways. He not only puts more money immediately potato land after this manure so far surpass our other crops, Mr. Hubbard, however, that he looks for the profit of his into his own pocket, but by the influence of his prudent that passers by remark the difference and enquire the farming, not to the stock he can keep, but to the hay he and successful example, he induces others around him to cause. The plaster abounds on the Tobique, and can be can sell off his faim. If so, he may continue to rear the follow I is steps, and to put more money into theirs also .- had in Fredericton for 15s. a ton. On the turnip land we hardy animals-which after all, are only old country stock Thus the agricultural improver-the judicious, not the hasty sowed the plaster broad cast, and then drilled it. For degenerated under the treatment they have received in the and imprudent one-is a most valuable member of society, potatoes we made the drill, sowed some guano or plaster Provinces-and to make a profit by his good hay; but his and it is for the best interests of the country to support, in the bottom, covered it over with a layer of earth, then land, like his stock, will degenerate in time, and it will planted the potatoes, covered them up, and then the plaster | cost his successors both skill and capital to bring it back There are only a few additional topics on which I think again. For the last 10 years we regularly use the plaster. again to its original productive condition. I am informed JAMES RANKIN, Carleton. sow one bushel per acre on the first of June ; I apply it to formeriy to have produce 1. 'The profit of good stock cono' cropping with grain or cutting with hay till the land is gravelly or light soils. I think it generally improves the sists, not only in the early maturity which they attain, and exhausted-a system hitherto so much followed in the crops to which it is applied about one third. HENRY HAYWOOD, King's. m nure by means of the hay and other produce of the farm, Brunswick, is also deserving of trial at the hands of the and be compelled to produce abundant crops for an indefishou'd be collected, husbanded, and applied as a top progressing agriculturist. It fails in many cases to prominite period of time. dressing in spring to the early grass. But where the duce good effects, though it as certainly does good in others. stu nps are already up, aud grain and root crops have been According to the practical men of Virginia and Pensylva- among the most experienced breeders and fatteners of stock rised upon the land, the barbarous custom of cutting for nia, it succeeds best on land that has been previously lim- as well as among theoretical writers, that an animal which hay, vear after year, without manure, ought to be for ever ed, or is naturally somewhat rich in lime. a band oned Such land, when in grass, may be pastured, With bones, likewise, in various forms, small beginnings in fact can be kept in condition upon less food than one if the u ght desirable, for three or four years -it may even may be made by way of experiment. And so with all the be allowed to remain in permanent pasture with an occa- the improved practices I have directly recommended s onal top dressing-but not more than one year's hay or indirectly alluded to, the really good and zealous and another for the rest of the world. ought to be cut, as a general rule, without the application farmer-the man who loves his art,-and wishes to of some fertilizing substance to its surface. When land advance it, it only for his own benefit, and on his as follows :-has already been exhausted by such treatment, the use of own farm-will from time to tume try them. honestly, fairly, and prudently, yet fully, and will thus keep constantly 2nd. The custom of leaving the land to cover itself with advancing in experience, and in the profitable culture of on the treatment of live stock in this country during the poor natural grass after the grain crop has been taken off, his land. There is indeed now scarcely any field so wide winter months, I beg to submit the following remarks :--should also be abandoned. It ought always to be laid as that of the experimental farmer-none so full of endless down with grass seeds where a naked fallow is not intend- novelties, which the active mind may investigate experied. I have indeed seen many cases where naked fields mentally, and always with a view to profit. Unlike the have shown the neglect of this most profitable practice of old stagnant art of farming, of which the principles were not understood, the art of this present time is guided by poorest and most ignorant portion of the rural population clear principles-is full of every new interest-is in a con-3rd. The adoption of a system of experimenting, pru- highly intellectual and active minds. 4th. In the preceding Chapters I have recommended the riments should fail-would not seriously affect his pocket, growth of flax to a certain extent for the purpose of prois the next point I would urge upon the practical man .- curing linseed as a food for the stock. and fibre for the north and west of the yard to break off the wind, the south It is a line of activity upon which he cannot too soon enter. winter's employment of the farmer's household. There are side being left open. There is a broad intervening space between the actual other crops which in particular localities the farmer may condition of New Brunswick Agriculture, and the condi- find it profitable to cultivate. The poppy and the sunflower much more comfortable (being entirely free from the cold) tion to which it might be brought by the judicious appli- which demand considerable heat to ripen them. are culti- than when they were in the former building, while a savcation of existing knowledge. But that knowledge cannot vated in French Flanders and elsewhere for the sake of ing of 20 per cent, is effected in the food, My cattie are

be diffused among, cannot be acquired by the farmers of their seed, which are first crushed for oil, and the cake

has hitherto almost altogether been derived; but the seeds which are usually thrown away, may also be employed with

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six months d, unless at have naturally found a place in the present Chapter.

putting more money in his pocket.

his own practice, than Societies, however zealous they my be, can be expected to do over the district in which encourage, and honor him.

it necessary to address a few observations to the practical farmers of New Brunswick.

1st. I wou'd recommend the abandonment of the system Province. If while the stumps are still in the ground, the 1 and cannot be ploughed, and must be left in pasture-the bones is deserving of a careful trial.

5th. To one other topic I advert, because of its great practical importance, though already frequently noticed in this Report.

The improvement of the breed of stock is in one point of view the basis of the entire agricultural improvement of good crops; and these large crops again, whether of corn, for fold yards full of manure.

But in some parts of the Province there is a prejudice Burton, writes me-" The stock of the country will do better on what we farmers call stock hay and no shelter, I obtained ten tons of plaster of Paris and sowed in the than the English breed will on merchantable hay with that even the periodically flooded lands on the Saint John I have used gypsum, and have found it beneficial. I River no longer yield the crops of hav they are known the larger produce of beef they yield from the same amount of vegetable food, but in their furnishing also the means This substance, therefore, which is so abundant in New by which the land can be maintained in good condition,

As to the benefits of shelter, there is now no question is kept warm thrives better on the same quantity of food, which is exposed to the inclemency of the weather. In regard to this point, there is not one law for New Brunswick

On this point, Mr. Goodfellow, of Miramichi, writes me

" Fredericton. 29th November, 1849.

"SIR,-Having been requested to give you my opinion "When I first engaged in farming operations, I kept my cattle in a building similar to those used throughout this Province at the present time; but, about five years ago, I built a new barn on a side-hill ; I excavated an under story for my cattle. One side, and part of the ends, are under the ordinary level of the ground. The side facing the stant state of progression-and affords full employment for hollow is where the cattle enter the building, which is of frame work boarded and shingled. The building above is also boarded and shingled on the roof and sides. There is a yard in front of 45 feet square. A shed is built on the "Since I kept my cattle in this building, they appear

ch square of ent insertion n Sixpence.

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seeding, but it has generally been upon farms held by the of the Province.

dently, cautiously, and on such a scale as-if all his expe-