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REPORT ON THE AGRICULTURAL CAPABILITIES OF THE PROVINCE OF NEW BRUNSWICK.

> RY J. F. W. JOHNSTON, F. R. S., S. L. & E. (Continued from our last.)

CHAPER XV.

Suggestions as to Improvements which may be promoted by the exertions of Agricultural Societies.

whom I have received much information. There is nothing Council of the Provincial Society.

countries of Europe. That they are often ill supported, ill services which in a few years he might render to the best layer of straw and filled in the earth; cost 2s 9d per rod. directed, and are sometimes found asleep at their posts, is interests of the agricultural community. not more true in the agricultural than in other walks of life, Besides this central Society, the formation and support I have had a good deal of experience in what is called and is no argument against their establishment, or their of local Societies in every County should be encouraged. French drainage, both for the purpose of cutting off springs claim to the general support of the country.

on which the special culture of each district, and the profits | vincial and of the County Societies, might be very usefully about 6 inches, then fill in and plough over. of its farmers depends. Through such a central council, expended. board or society, an impulse may be given, and a general Supposing these Societies to be organized something wisdom and discretion of the whole solves the doubts and might be especially directed; such asremoves the difficulties which lie in the way of those who Ist. The encouragement of a system of thorough drain- dig from 6 to 12 inches deep, which is sufficient to carry preside over the agricultural improvement of the several age, especially on the heavier soils of the Province.

of scientific agriculture throughout the Province were a road metal or hollow tiles of burned clay, and filling them Provincial Agricultural Society to be established—with up again to the level of the soil. such a constitution, and such a staff of officers as exhibit- On my first arrival in the Province, I was doubtful how on his sloping fields, and partly to bury the numerous stones entire community.

discussion before the Provincial Legislature.

extent to their control.

dericton, or elsewhere, it might be directed in part or in Province, very little has been done in making trials upon whole by the Council of this Provincial Society.

that apportioned to each of the County Societies had been practice, benefits and profits of thorough drainage:—
applied—what had been done in the College—what exerMy land is composed of various soils, all of which require sembly, and widely diffused throughout the Province.

ing of this Society-

Among other means by which, in consistency with our representative institutions, it might be made to combine the In several parts of the Province Agricultural Societies wisdom, zeal, and opinions of all, it might be provided that about 3 feet deep, 2 of which are filled with small stones exist, headed in general by active, zealcus, and intelligent the President and Secretary of each County Society should and then covered over; we have covered some with broad

they are inadequately supported by the general mass of the life and efficiency of the Society will depend upon this husbandry. farming population. The same complaints are made, more officer-knowing what the Agriculture of the Province is, or less loudly, in nearly all parts of the world—the cause what it may become, and how this improvement is to be great success where there was a great flow of water

As at present, they should receive grants in aid of their and removal of surface water, and consider it to be a pro-But it has in most countries been found desirable to unite funds from the Province, as they do now, only through the fitable improvement where there are many small stones to the best heads, the warmest zeal and the soundest discretion Provincial, to the Council of which they should report, as be taken off the land, (which is generally the case in wet of the whole agricultural community in a Central, National the central Society does to the Legislature. In more high lands in this ountry.) I have the drains dug 3 feet or Provincial Council, capable at once of embracing those limited districts, Farmer's Clubs with Agricultaral Libraries | deep, one foot wide at the bottom, the small stones put in large views which comprehend the good of the whole, and attached, would be eminently useful; and in encouraging the bottom, the larger ones in top, the whole of the stones of descending to, and minutely discussing the small details and aiding these, a portion of the funds both of the Pro- being about 18 inches deep, cover with fir bushes or straw

direction to the proceedings of County and Local Societies after the manner above described, there are numerous points water. I take the course of my drain with a little descent -an example is set, and advice given, and the general to which for the benefit of the Province, their attention across my field, ploughing it 4 feet wide, making the drain

parts of the country. The languid in remote districts are I have already spoken of arterial drainage by which main water, springs may be drained with deep narrow drains stimulated, the discouraged are cheered up to new efforts, outlets are provided—the system of thorough drainage is a filled with stones part way, and then with earth; but the and a unity and fixedness of purpose is imparted to the perfecting of the means for carrying off the surface water frost going so deep in this country disturbs the earth and little knots of willing men, who by council and example, which this primary drainage has begun. It consists essen- stones, so that in a few years covered drains are apt to get are laboaring in remote places to improve the art by which tially in establishing a system of ditches about 3 feet deep stopped. they live, and to elevate in the social scale the class to and 18 feet apart, over the entire field to be dried, at the bottom of which ditches a passage for water is left either none of the writers adopt methods such as our best English It would therefore, I think, promote the general advance by putting in 6 or 9 inches of stones broken of the size of and Scotch farmers would approve of.

of many of its heavier soils-of the climatic conditions of the purpose of carrying off the surface or rain water only. In regard to such a Society, I take the liberty of observ- this part of the Continent-especially of the mean annual Mr. Simonds both bring the stones too or party character, or are likely to become subjects of party land, much good is to be expected from the judicious intro- ought to be still further below that of the soil.

the efficiency or profit of this means of improvement.

Fifth.—In return for these privileges, the Society should | The following quotations comprise all the information be bound to report every year to the Assembly how the tendered to me in answer to my queries regarding the exmoney granted to themselves had been expended—how perience of practical men in New Brunswick as to the

tions they had themse'ves made during the past year for draining-my drains are made 4 feet wide at the top and the progress of the Province-what the County Societies 3 feet at the bottom, and 4 feet deep. I fill the drain with had done-what they would recommend in aid of a more the stones taken from the land, choosing round stones one rapid progress-what new means they would desire-what foot in diameter for the sides, and stones a size larger for hinderances stood in their way, and how they were to be the cover, and then I fill in with 18 inches of the top, coverremoved. Such a report could not fail to be valuable, ing with brushes or straw, and levelling the soil over all. generally acceptable, and generally useful. It should The cost is one dollar per rod for labour, the stones are therefore be annually published at the expense of the As- free. The previous year to digging my land, I dig a drain across the head of the slope 6 feet wide at the top and 4 But two things are indispensible to the beneficial work- at the bottom, and make a vent on to the river; while digging I find out the sprouts, cutting a drain just above, and First .- It must have the general confidence of the Legis- | 1 un it into the main drain, I then level and blough the land lature and of the Province, and must exhibit no party bias. three times, which makes it in good order for a green crop. JOHN H. REID, York.

Our principal drains are open, the shorter ones are dug men, whom I have had much pleasure in meeting, and from be ex-officio members of the governing body or General flags extending across the ditch, to prevent the earth getting through and obstructing the water current at the botuncommon or peculiar to the country in the complaints I Second .- It must be provided with a zealous, energetic, tom. The result has been so highly satisfactory that we have heard expressed by the heads of these Societies, that skilful, experienced and discreet Secretary. The whole consider ourselves only beginning in this branch of good

I have taken off surface water by open drains with of advancing Agriculture being almost everywhere support- brought about. If a man possessing this knowledge, free have made underground drains through a swamp, having ed and promoted by the few. As the value of knowledge from prejudice, open to conviction, ready to comprehend cut off the Springs that fed the swamp, and have succeedto the practical farmer becomes more generally understood, the influence of circumstances in modifying principles and ed well. I cut drains 3 feet deep, no wider than necessaprobably this indifference in the masses will be overcome. rendering inexpedient generally useful modes of procedure ry for the workman to use his tools freely in. I piped the That Agricultural Societies are capable of doing much |-- if such a man could be found, who would willingly throw drains with stones drawn from the field in the form of a good, no one will deny who has attended to the results his heart into this matter-no reasonable sum which the triangle and filled smaller stones over the piping to within which have followed from their exertions in some of the Province could pay would approach the great value of the 18 inches of the surface, I covered the stones with a light ROBERT D. JAMES, York.

EDWARD SIMONDS, York. I drain wet land for the purpose of removing surface very slanting on each side until it comes to the pan, I then off the water-open drains are best to carry off surface ISRAEL PARENT, York.

The above opininions are all in favour of dramage, but

Mr. Reid's drains are too large and expensive; and are intended partly to drain the springs which show themselves ing no party bias of any kind, and regarding agricultural far it would be safe to recommend the introduction of this which overspread it. The same is the case with the drains improvement only as a means of promoting the good of all, method of improvement which has proved so successful in put in by Mr. James. They are such as may fitly be used should command the general confidence and support of the England. A careful consideration however of the nature to lay swamps dry, but could not profitably be inserted for

fall of rain, and the baking and parching effects of the near the surface. Twenty four inches is the smallest dis-First.—That it ought to be an entirely voluntary society, severe droughts of summer, which render a deeper available tance, where stones are employed, which ought to intervene supported mainly by its own funds, and having full power soil necessary to the verdant growth of the plants—toge- between the upper surface of the stones in the drain and to elect all its officers.

Indeed if Mr. Parent be correct as to the depth Second .- All topics of discussion should be prohibited of the Province; these considerations have satisfied me to which the frost will penetrate and disturb the materials at all its meetings, which are in any degree of a political that in North America, as well as in great Britain and Ire- of which the drain is made, the upper surface of the stones

Third.—It may fairly claim from the Legislature an Thorough drainage such as I have described, has not objection to covered drains which is put by Mr. Parent. annual grant in promotion of its general objects-and so hitherto been much practised in New Brunswick. Mr. and is one which is not without an apparently good founlong as the managing council possesses the confidence of Henry Cunard, upon his farm near Chatham, on the Mira- dation. The frost, when the land is uncovered with snow, the Legislature, the grants which are now annually made michi, has skilfully and completely dried some of his fields is observed to harden the soil to a depth even greater than to each of the County Societies ought to pass through the by this method, and as he assured me, with a reasonable three feet; but it does not follow from this that the matehands of the Central Society, and be subject to a certain expectation of profit. Others I believe in the same neigh- rials of a drain laid at that depth should be displaced so as bourhood,-for there are upon that river and its tributaries when the thaw returns to render the drain inefficient. I: Fourth.-In the event of a Central Agricultural School many excellent and zealous farmers,-have, I believe, have been told on the contrary, that drains only one foot or College being established in the neighbourhood of Fre- drained to a small extent; but generally throughout the in depth have continued unimpared even after the severest