

rolling, very much remedies the evil in grass lands,-that as the natural shelter is cleared away. strength.

01

orm you

by the severely

n away,

ectfully

ysician

s of the

'nsend's

prepara

M. D,

nsend's

ts, have Extracts

shaped

vertise-

ded.

tock.

tember

etween

demand

ling the

him, or ly, lots

eton, in. uldings

Laving

upreme

W,

RIFF.

on, by

ith the

Twelve

ore the

at the

nonths,

less at

uare of

sertion

spence

Gent ()

BERRY AND Colve Vil

D' all's colo

t'arig, Off I Cash Pate Car

8. 100 197 m. M.

2 . 820021 Cae an

i her sind

434 34.

er st.

can be prevented.

unavailing remedies have been tried to prevent it.

Only two methods can be depended upon, as likely to be officatious in lessening the effects of the alternate frosts and and diminishes the Farmer's profits. thaws

ling in Spring, recommended by Mr. Farmer of Charlotte stock. The crops of hay are not complained of where the given to cattle singly. County, and practised with so much advantage in the old land is properly treated, but the long winter of 6 1-2 months, Nor is the good conferred upon the farmer by large which apply also to other cases similar to the present.

cleared section of the country is exposed to certain cold or it will be most useful in this place to draw Your Excelprevailing winds, which scarcely any where fail every now | lency's attention.

farmer's crops.

forests refuse to withstand the winds to which they have of not only exhausting the land, and finally of making in There can be no question that extreme cold, if animals are been unaccustomed, when the trees which sheltered them much more expensive to cultivate, but also of making it exposed to it, must be injurious to their health, and must have been cut down, as I understand is very generally the necessary to devote a much larger portion of the cleared interfere with the farmer's profit in keeping them. But if case, then plantations should be made across the course of surface to the production of food for the cattle, than under cattle are properly sheltered and fed, this cold in itself the prevailing or most injurious winds. It will surprise more reasonable management would be required. Let the ought to produce no other effect; than simply to cause the persons who have no experience as to the effects of such farmer cease to cut his grass so frequently from the same consumpton of a quantity of food per day, somewhat larger shelter, to see how very much good is produced by it - fields without giving them any manure, and he will reap than under a milder atmosphere would be required. As Not only are the stock kept warm, which feed in pastures more from each when he does out them. When the grain however the climate of the Province might exercise, beso protected, but the herbage and all the other crops are crop is reaped the land should always be sown down with sides this, some special evil influence upon cattle, which a remarkably benefitted by it. I know of one formerly un- grass seed instead of being left as it so frequently is in stranger to its winters could not anticipate, I have thought sheltered locality in the north of England, not exposed to some districts, to cover itself with any wild grasses or it right to consult the practical men of the Province, and a wide valley, the grass upon which, for pasture, was raised of stumps upon new land prevents its being ploughed, after subject :- Effect of the winter upon stock. from 5s. to 40s. an acre of yearly rent, solely by the plant- two or three years, let it be pastured only till the roots can Whoever travels through New Brunswick will every now extent, so long as it must be cut for hay. This top dress- are not generally subject to disease. D. B. STEVENS; Saint John: and then come to spots where a very little previous expe- ing might be easily effected. on new land, if the manute: do at han ented to ch

the more brief summer, yet we may, I think, fairly conclude | ings in winter could do." (Mr. Gray.) The inability to grow winter grain is not unfrequent in that there is nothing in the length of the winter which cultivation.

On the farms of New Brunswick, wood is to a certain soever he may complain, there is no possibility of shortenextent considered a nuisance which it is desirable to get ing the period during which his stock must be fed in the time during which the stock must be tended and fed in the rid of, and hence it has almost every where been cut down house ; that his only resource is to adopt his system of house, the profit of the farmer, by improvements in his preindiscriminately, and few attempts have been made to pie- husbandry so as to raise the largest possible amount of sent system of cultivation and of feeding, may be increased serve or plant belts or clumps of trees, which in Great food for his stock from the smallest breadth of land; and in a degree equal to what, with his present system of ma-Britain are everywhere found so necessary for the purpose lastly, that the very climate he complains of affords him nagement, would follow from an actual shortening of the of shelter. The consequence of this is, that almost every some special facilities for doing so. To these latter points winter.

and then in producing evidently injurious effects upon the First. As to the growth of hay, upon which all kinds of as well as to the fundamental interest of the Province. stock have hitherto been fed almost exclusively, the prac-Another way in which, according to some, the winter is Against these winds it is very desirable that shelter tice of mowing the grass land year after year, for ten to hurtful to the interest of the New Brunswick farmer, is the should be preserved. If belts or clumps of the original twelve or even twenty years in succession, is a sure way directly injurious effect which it produces upon his stock.

water, which freezes afterwards, or when the ground, be- the land from the fierce winds, and prevent the grass and rection, which it is the duty of the New Brunswick farmer fore being covered with snow, is subjected to a severe clover from being winter killed; it would assuage the to take, is the growth of green crops in much greater abunfrost, the grass in old pastures and meadows, and the clover severity of the winter both to the stock and to their masters, dance, and over a larger portion of his land, than he has in artificial grass fields, is liable to be thrown out and win- and it might ultimately, upon dry lands, restore the ability ever hitherto devoted to this purpose; and it is here that ter killed,-that for the same reason winter grain cannot of young winter wheat. The new settler knows that in the special adaption of the climate to which I have alluded be sown,-that this effect is less on dry and light lands his first cleared field, while still surrounded by wood, winter tells. The Tables of produce given in a preceding than on such as are wet or heavy, and that early Spring wheat grows well, and that its ability to do so decreases Chapter, have shown that in potatoes and turnips this Province greatly exceeds the present average produce of any when uncovered, the fine soil is sometimes drifted before On the whole, I think we must allow that though the of the other parts of North America, with which we have the winds in winter,-that the melting of the snows in period for out-door labour is shorter in New Brunswick- compared it. The quantity of crop thus reaped, confirms spring occasionally chills the soils, causes them to run to as it is in the Canadas, Maine, and in the Northern States the uniform testimony borne to myself personally, in all moss, and sometimes washes them and diminishes their -than in England, or in parts of Scotland, yet that the parts of the Province, as to the remarkable manner in action of winter upon the soil is such as materially to lessen which all root crops appear to thrive; and the frost The evils complained of here, except the last, which is the labour necessary to bring it into a proper state of tilth ; which appears to give annoyance in so many ways, is one doubtful, are experienced by New Brunswick in common and though we may not go so far is Mr. Gray, in regard of the agents by which this peculiar adaption to root crops with all the northern parts of America. They are only to the comparative amount of work which a pair of horses is brought about. It opens and pulverizes the soil, and occasional, however, and incidental, and to a certain degree under proper management may be made to perform during "renders it fitter for green crops than any number of plough-

This adaption to the growth of roots, enables the soil to some parts of Scotland, owing to a similar action of the ought-where nme is diligently employed, and its value is produce large crops, and these large crops go farther in frost, and the winter killing of the clover is very generally known-seriously to interfere with the progress of out-door the feeding of cattle, than the hay off the same quantity of complained of both in England and Scotland, and many operations, or materially to add to the expenses of arable land will do, even where it has been manured as I have above recommended.

2nd. As to the extent to which the Winter interferes with According to some, an acre of land in turnips will go three times as far as the same acre under hay. Crops vary We have seen that the harvests of New Brunswick are so much however, that no general rule can be established. These are, first, a thorough drainage of the land most not to be complained of; that in comparison with other It is certain only, that by feeding cattle partly with turnips subject to be winter killed or chilled in Spring, that the parts of North America, they are large. This secures a and partly with hay or other dry food, not only will the water may have a more speedy escape, and thus to a less sufficient supply of human food, but may not make equally same extent of land support more stock, but the same extent linger and freeze in it. The other is the early rol- sure that which is required for the healthy nourishment of weight of food will go farther than when either of the two is

country. Where land is in good heart, these two methods during which all animals must be kept in the house, makes green crops confined to the immediate influence upon the will often prevent the evils complained of; but for the oc- the New Brunswick farmer unable, with the same quantity cartle and upon the extent of land necessary to support casional scorching effects of the cold winds, which, like the of hay or other food, to support the same number of stock them; but the manure of a rich quality, which they are the north west winds in the neighbourhood of Saint Andrews, as the English farmer can. This evil the provincial farmer means of placing at the farmer's disposal, enables the same sweeps over the ground when naked, and appears actually expresses, by saying " that the winter eats up the Summer." extent of land to produce more corn than before, so that to burn up the grass, there is one other remedy, in regard In regard to this point it is important to bear in mind in a double sense he is benefitted by this culture. He to which I may here introduce a few general observations that the New Brunswick farmer is subject to this evil in employs less land than before in feeding his cattle, and he common with other parts of northern America; that how- grows more corn per acre on the remainder of his farm.

If therefore it be possible to shorten in fact the period of

I would press the above considerations upon the practical farmer, as vitally important to his own individual profit,

the sea breeze, but to the sweep of the wind coming down weeds that choose to spring up; and where the presence I have been favoured with the following opinions upon the 1. Where proper care is taken, as housing, &c., the effects ing of belts of trees so as to turn off the prevailing winds. be taken up, or let it be top dressed with manare to some of the long winter are not injurious. Cattle in this country,