only attempts to introduce improvements much shorter than in England or Scot- with all the northern parts of America. approved by experience, in countries whose circumstances resemble those of our own. If it have a fault in this respect, it is that of not going sufficiently far in these directions in which the school aystems of all parts of this continent are now steadily advancing. As already stated, some of its details will require modification to adapt it to the growth of another year, but in its main provisions it is hoped that it will prove acceptable to the intelligence of the country and to a majority of the legislature.

REMARKS

On the Climate and Soil of Nova Scotia, in reference to their agricultural capabilities. [Continued from last number.]

Admitting, however, that the annual produce of the soil in Nova Scotia, will bear comparison with that of the best gram growing districts in America, our farmers may still be liable to some disadvantages from the nature of the climate, and especially from the length of the winter.

1. There may be a deficiency of time for farm work. Prof. Johnston on inquiring into this subject in relation to New Brunswick, finds that the average time of latest ploughing is the 17th November, and the average time of earliest sowing the 21st April. He infers from this that the average duration of summer, including under this term the working time of apring and autumn, is six months and twenty-two days. He then takes three mouths and 17 days as the average time required for the growth of spring grain, and calculates that the time for spring and autumn work before sowing and after reaping, is three months and three days. These numbers are equally applicable to Nova Scotia, taking the average between the earliest districts in the western counties and the latest parts of the eastern hills. On comparing these dates with those for western New York, Prof. Johnston finds; "1st that the winter in Western New York is 22 days shorter that that in New Brunswick; 2nd, that this shortness consists in the addition of 21 days to the open weather of fall and one day to the open weather of spring." To counterbalance this advantage, he finds that the New York farmer has a somewhat larger number of rainy days, which reduce his extra time in fall to between 10 and 15 days. These facts would indure us to conclude that the advantage in regard to open weather in New York and Upper Canada as compared with Nova Scotia, does not exceed 20 working days in the year, and this almost altogether in the fall. The farmers in those countries appear to have as much reason to complain of short springs as we have.

land. It must be remembered, however, that the number of rainy days in those countries is much greater than with us, and that the action of the frost on the sary there. It appears from the meteorological register of Mr. Poole, of the Albion Mines, that we have an average number of 114 days of rain and 60 of snow. This is edies have been tried to prevent it. greater than the number for New Brunswick as given by Johnston, but considerably less than that for most parts of Britain. On this subject Johnston remarks:

"The number of days during which rain impedes the operations of the British farmer is notoriously very great. In some Counties, which possess soils of a in another evil than that which attends the New Brunswick winter. It not only shortens the period during which the but it also makes it heavier or more difficult to do. Thus the farmer's expenses in Great Britain are considerably increased by the precarious nature of the climate he lives in.

operations of the farmer are less impeded present. by rain, and the disposable time he poseach."

winter is changeable, so that a thaw injurious effects upon the farmer's crops. comes on and fills the ground with water, them and diminishes their strength.

for out of door labour in Nova Scotia is rienced by New Brunswick in common down a wide valley, the grass upon which

They are only occasional, however, and incidental, and to a certain deg ce cannot be prevented.

The inability to grow winter grain is soil here tends to allow the farmer to dis- not unfrequent in some parts of Scotland. pense with the repeated ploughings neces- owing to a similar action of the frost, and the winter killing of the clover is very generally complained of both in England and Scotland, and many unavailing rem-

> Only two methods can be depended upon, as likely to be efficacious in lessening the effects of the alternate frosts and thaws.

These are, first, a thorough drainage of the land must subject to be winter killed or chilled in spring, that the water may have a more speedy escape, and thus peculiarly tenacious character, it brings to a less extent linger and freeze in it. The other is the early rolling in spring, recommended by Mr Farmer of Charlotte County, and practised with so much work of preparing the land can be done, advantage in the old country. Where land is in good heart, these two methods will often prevent the evils complained of but for the occasional scorching effects of the cold winds, which, like the north west winds in the neighborhood of Saint But in New Brunswick the climate is Andrews, sweeps over the ground when more steady and equable. Rains do not naked, and appears actually to burn up so constantly fall, and when they do des- the grass, there is one other remedy, in cend, the soils in most parts of the Proveregard to which I may here introduce a ince are so perous as readily to allow few general observations, which may them to pass through. Thus the out-door apply also to ther cases similar to the

On the farms of New Branswick, sesses, compared with that of the British wood is to a certain extent considered a farmer, is really not to be measured by nuisance which it is desirable to get rid the number of days at the disposal of of, and hence it has almost every where been cut down indis riminately, and few 2. The winter may exert injurious in- attempts have been in de to plant belts or fluences on grass lands, on stock and on clumps of trees, which in Great Britain the employment of labour, which may are every where fould necessary for the seriously diminish the Farmers' profits, purpose of shelter. The consequence of On the former of these subjects I quote this is, that almost every eleared section the following temarks from Johnston of the country is exposed to certain cold "The substance of the evils produced or prevailing winds, which scarcely fail upon grass land are-That when the every now and then in producing evidently

Against these winds it is very desirawhich freezes afterwards, or when the ble that shelter should be procured. If ground, before being covered with snow, belts or clumps of the original forests is subjected to a severe frost, the grass in refuse to withstand the winds to which uld pastures and meadows, and the clover they have been unaccustomed, when the in artificial grass lands, is liable to be trees which sheltered them have been cut thrown out and winter killed,-that for down, as I understand is very generally the same reason winter grain cannot be the case, then plantations should be made sown,-that this effect is less on dry and across the course of the prevailing or light lands than on such as are wet and most injurious winds. It will surprise heavy, and that early spring rolling very persons who have no experience as to the much remedies the evil in grass lands, - effect of such shelter, to see how much that when uncovered the fine soil is some- good is produced by it. Not only are the times drifted before the winds in winter, stock kept warm, which feed in pastures -that the melting of the snows in spring so protected, but the herbage and all tho occasionally chills the soils, causes them other crops are remarkably benefited by to run to moss, and sometimes washes it. I know of one formerly unsheltered locality in the north of England, not The evils complained of here, except exposed to the sweep of the sea breeze, There can be no doubt that the period the last, which is doubtful, are expe- but to the sweep of the wind coming