vantage, but they profer to import their gram seeds from year to year, we required, from the beat English houses in the trade, rather than grow any themeelves, for they have no land nor time to apare in growing a few buahels of seed, when they can buy to much more advantage in Britain. The average cont of the beat grase seed in Britain seldom gnes beyond 1s. to 1s. 6d. sterling per pound at retail, and for our dealera to charge 75 c . to $\$ 1$ per pound for the mame noed is simply prohibitory.

## Drying Hay and Grain by Artificial Меади.

In our last isue we published extracts from a letter which had been written by Mr. Robert Neilson, of Halewood, Liverpont, Eogland, on this subject It is a rery interesting one, and will bear further discussion, not so much because it is likely to be much used in Canada, as because opens a new field for enquiry in ngricultural matters. We all know that when bay is put together in the stack in too green or too wet a state it will heat greally, and in some cases burn or char all the centre of the stack black. Most of our old country readers will recollect hayricks in this state, which shows so plainly when the slack is cut down in halves by the cut. ting knife used for that purpose in the old country. All must bave remarked, too,tbat the outside portious of such ricks aro perfectly good. It used to be said that when the hay was not actually reduced to charcoal or a cinder that it was excellent food for fatting cattle. When the dampness bas not been sufficicut to cause this com'mustion, but has been too great, the hay is mouldy and dusty, but it is alwass dry.

All prudent farmers in Eagland, in a damp or catching time construct their richs and stacks, and even the mows in the barn, with one or more chimney boles made by embed. ding a large basket-: here called a "Willy" -in the stack, building the hay in tight round it , and lifting it as often as the hay came near the top. Others use large sacks stuffed with straw to make the holes or chimneys, as Mr. Neilson did, and where these precantions were taken the stacks and mows were considered as safe from over. beating.

Itis, therefore, clear that there is a point up to which the natural heating of the bay, straw, \&e., is of good service, and is most useful in drying the hay, fre. Beyond that point, over-dampness produces mischief. If, therefore, In packing wet or green wheatsheaves into the stack or barn, care is talken to leave interstices between the sheaves by packing them across in several places so as to leave chimaeys, no harm would happen from over-heating. paricularly if in building the stack or mow proper channels were left at the botlom to theme chimneys so as to en. sure a good supply of air below. The heated
ai, in the chimneys wonld then rise, and be replaced by the fresh air coming in under and through the passages len for that purpose, and a lhorough ventilation would be secured.

Tbe same principl. is mate nse of in the storing of grain in largo clevators- the grain becomes slighty warm. and considurable evaporation lukus place-the bins of grain are at this puint lut down through tbe sponts to the elevating machinery and elevated, and a new bin filled. By the time this is accom pliabed another bin ia readry to be operated upon, and thus the entire grain is dried with its own natural beat, and finally rendered fit for shipment, while the same grain. if shipped before this process had taken place, would have beun totally apoiled. Fverything pus Logether in large manpos houls more or lesa, and in hay, de., this natural phenomenon can. with judgment, be turnell to a most use$f_{\text {ill }}$ account.

## Experiments with Superphosphate of Lime.

Mr. Lgman Call, of East Durbam, sends a short acemun of s.ine experinen: with superphosphase of lime on rarions cropy. He applied this mannre to portions of a field of potaloes, leaving ruws unmanured to note the difierence. The quantity used was about one barrel to an acre, and it was applied in the hills, about a lable-spoonfit to each hill. The matured portion uxhibited a markels superiotity over the other in rigour of stalk during the period of growth, and at harrest yielded one-third more than the unmanured rows. In experimenting with the same ferilizer on meadows, be comes to the conclusion that a barrel of superpbusphate will increase the hay crop by as much as a ton to the acre. On wheat he found less marked advan. tages, and belieres that salt is preferable in this case, uding about two aml a balf bushels of salt to the acre.

## Early Rose Rotting. <br> (To the Editor.)

S(R,-A great deal lass appeared in the public papers, in those duroted to genersl news as well as thuse confined to agricultare, and cognate topica. concerning the good quality and great producliveness of the Early Rose polats. It is therefore all the more necessary that information af a different character concerning the new variely should not be withheld. It bas not appeared from any public statement which I have seen that this potato was liable to rot. My experience, therefore, as it bears on this point, may not be withont valuc. 1 planted this spring fonr pounds of these potatoes, which I treated in all rerpecis the same as some Farly Good. rich pl ated alongside of them. When taken up about a month ago, 1 roughly eatimated the quantity at foar bushels, and on trial
found them to be of firyt rate quality. The Early Goodrich yielded, I thought, a little better, bilt wert not so good in quality. Wiben first dug I found a very few rotten ones amonest the Ealy Rose, whioh were left on the ground, and onlg those apparently sound were put in the cellar, on a largh shelf, spread out so that thuy weru not moru than six inches deep. Afier a time I discovered thet thare wore more sbowing signs of rotling, and about a week since I had them picked over, when there were abont three pailfuls fonnd to be more or leas decayed and putrid. The Eariy Goourich were not iaken up till some lime after the Early Rose; more were found to be: solten at the time of dig. ging, but fewer luwe decayed in the cellur. Both puricties have rutted much worse than the Gurnet Chili. Inded, I cannot eay that [ have seen a siagle one of that variety roten out of about ten busbels.
To those who may be desirouts of trging their luck in an attempt to produce new and improved varieties from the seed, it may be of use to know that very nice plante may ofien be found in the spring on ground where polatocs have dropped their seedballs the previous fall, and that these can readily be transplanted. I have this season raised from such plants a number of potatoes three inches in lingtb, and a few ecent larger. Some wore allowed to remain botween the rows of ield cariots, where they came up, and even under these unfavourable condilions produced tubers of a fuir sizo.
W. O. K.

Whitby, Oct. 21, 1869.

## Trosty Lande.

One of the greatest peculiarities about Canadian Jands is the liability to local frosts, and these frosts are so exceedingly local as to be puzzling in-the extreme. If a farm, after being cleared up, proves to be frosty, the sooner the owner sells it and goes to another, the better. It may, and most likely will, amend in a few years, but in the meaulime the owner will bave spent and wasted time on it to a poor purpose, which, if apeut on a good place, would pay for the freebold. It is donbtless hardi for any man, after he has gone through the hard labour of cleparing up a place, to abandon it; but he had belter do so than remain, if it proves to be frosty.

There aro many reasons given for this scourge, and an endless divorsity of opinion. but all agree that the only profitable nee which can be made of a frosty place is to get it down intopasture, and depend on the dairy and grazing for returns.
Some persons blaune the black mucky soil which is so predominant in some places; others say that it is owing to the place being too flat and level and in the neighbourhood of swamps. But whatever the roison is, it is clear that it is ouly a matter of ene or two degrecs of lieat by the thermomelor which makes the difrerence belween a place that is frosty and ane that is not. Parhapy the mont

