PEASE.

The Pea crop is of great importance to the Canadian farmer-the climate of the country being remarkably well adapted for the growth of pease.

The soil to which pease are the most appropriate, are sandy loam mixed with calcureous particles, these soils are abundant throughout all British North America. It is a subject worthy of remark, that some variety of pease require one description of soil, and others require a soil of a very different character,-for instance, the grey species are best adapted to: the strong soils, and the white to the drier and lighter ones. Wherever salcareous earths abound, large crops of the best qualities of pease are grown. A light dressing of shell marl or lime, is ever found to forward a crop. The best preparation for land for this crop, on those soils suitable for their culture, is thorough deep ploughing in autumn, and without any further labour, the seed should be sown the latter part of April, or first of May, at the rate of three bushels per acre, then harrowed in and rolled No seed is more difficult to cover than pease; in all cases where it is doubtful that the seed could not be completely covered with the harrow and roller alone, we would recommend that they should be ploughed in lightly, and afterwards harrowed singly, and rolled. In most cases, where the land has been ploughed in the autumn, to a much greater depth than usual, that is to say, when two or three inches of the subsoil have been brought up to the surface and exposed to the action of the winter frosts and snows, the ploughing in of the seed will be found to pay 100 per cent. for the labour expanded in the operation. On the land we cultivate, we would expect, in an average of cases, from the foregoing management, not less than 40 bushels of pease per acre.

If barn yard manure be applied to the soil in the spring of the year, it will occasion the crop to run to haulm, and proportionably lessen the product of grain.

We have much confidence in recommending the cultivation of pease on an extensive scale, it is the best possible food for stock, and is likely to be an extensive article for expert. It is almost needless for us to state to our intelligent readers, that pease, like clover, draw their sustenance very largely from the atmosphere, and comparatively, even to a much greater extent, than from the

In preparing ground for fall wheat, a much less objectionable plan than making naked summerfallows, would be found to consist of sowing wheat after pease. This system has been practised from time immemorial, but the manner in which it has been generally performed, is equally as objectionable as the naked fallows. When wheat is intended to be sown after pease, the manute which is usually applied to naked summer-fallows, should be reserved for the pea crop, and apould be spread on the ground in autumn, at the rate of about ten tons per acre, and should be ploughed in to the depth of, at least, nine inches,-the land should be made into six yard ridges, and completely cross-furrowed, so that the ground would be dry in the spring, at the earliest possible period.

The seed of some short-vined variety should be sown at the rate of three bushels per acre, ploughed in very lightly, harrowed and rolled, as recommended in the foregoing remarks. If the crop be

been in the habit of making his naked summer fallow, it might be harvested with a horse and rake, similar to the plan usually practised in collecting hay with a horse. One man will pull four acres per'day with all case, although a portion of the crop might be thus left on the ground, still a provident cultivator would auffer no loss by this means, as his stock of fattening and store swine would gather them off the ground in time for sowing wheat.

In ploughing the ground for wheat, it should be done to the full depth that it was previously ploughed in the autumn, and the manure which had been ploughed to such a great depth, will be in a proper state for imparting strength and vigour to the young wheat plants, without entailing the disease of rust, which is generally brought about by the plan generally practised in this country, of heavily dressing naked fallows with unfermented barn-yard manure. If the furrow for wheat be ploughed to the full depth recommended, say nine inches, and the ground immediately harrowed and ribbed, and the seed of an approved variety be sown broadcast, at the rate of two bushels per acre, and harrowed in lengthwise singly, and the furrows and cross-furrows be cleaned out with a plough to the full depth,-we would expect from such management a much greater crop, than from a naked fallow. Those of our readers who desire to grow an average crop of forty bushels per acre, throughout their entire wheat crop, would do well to try the plan we have recommended, or some other equally as good, and in the spring of the year, top-dress the young plants with fresh house ashes, at the rate of eight or ten bushels per acro, and which should be harrowed in with a pair of light seed harrows. If the harrow teeth be very long, or are likely to injure the plants, fine branches of trees, or brush may be intervoven in the harrow. The object to be gained by harrowing is, the pulverization of the may be as readily broken by harrowing the ground to the depth of two inches as four.

We do not wish it to be understood that we strong clay lands much more efficacious, especially as the clover by system requires the greatest occety in the laying down the land with seeds, and also, in the ploughing of the sward, and depositing the seed wheat. It might, however, be observed, that so soon as the ridiculous notion of naked fallows can be exploded, both the sowing of wheat after pease, and on clover ley, may be introduced on the same farm, without interfering with a judicious system of rotation, or a well grounded method of farm management. For fear that it might be thought by some, that we were opposed to the plan of making naked summerfallows in every instance, we would observe, that there are cases when the practice is absolutely necessary,-those cases, however, are rare. We shall endeavour at an early period, to point our the instances where naked fallows could be made with advantage, and the character and manner of the substitutes, which we would recommend in its

To relieve the minds of our readers from any unnecessary suspense on this subject, we would as this time merely advert to the outlines of the system large, say to the extent that the cultivator had to be pursued. Without at all entering into detail, subject.

we would, however, observe, that circumstances may be such as will enable us to make a few remarks on portions of this important subject in another column.

A more extensive culture of potatoes, turnips, mangel wurtzel, carrots, parsalps, and other roots as field crops, will follow as soon as the plan of making naked fallows give way to the improved system, which we hope soon to see generally established. Those roots will, of course, require both a heavy dressing of manuro and extra attention in cultivation, and both of which the farmer will be able to apply to these crops under the new system. A farmer who cultivates 100 acres of land, should have, at least, ten acres planted with roots, to be followed in rotation through the farm with spring wheat and the cultivated grasses. On such a farm, ten acres of wheat might be sown upon a clover ley, and ten upon a pea stubble, prepared in the siyle recommended. As it is desirable that as much spring wheat should be sown as autumn, five acres of vetches, and a like quantity of rape should be sown each and every ear for summer soiling and for fattening sheep. The ground after these crops will only be required to be ploughed once in the autumn to fit it for spring wheat, as they thoroughly cleanse the ground from weeds if the seed be sown thick, as though it had been subjected to a fallowing operation.

A farmer cultivating 100 acres of arable land, might, each and every year, harvest 20 acres of fall, and a like quantity of spring wheat, without making a naked fallow once in 20 years; and, at the same time his soil would grow ricker and deeper, until at length it would become in appearance to a rich garden mould.

To arrive at this supposed zenith in agriculture, the cultivator must possess a sound intellect, and must so happily combine the hand and head labour system of pursuing the various departments of his complicated and dignified profession, that his farming operations will advance at all seasons of the year, in a methodical and business-like manner. There are so many influences at work, that in order to carry out experiments successfully, and in order to carry into operation a system of farm management, such as would keep up the virgin . qualities of our soil, and, at the same time, crest that is formed on the surface, and this crust remunerate liberally for the expenditure, a vast. amount of information is required, and such a farmer must be a close thinking, or far-seeing and sensible man. We occasionally meet with We do not wish it to be discretely of our time morchapping or agreeous that of clover, it is when conversing on agricultural topics in at a resparative crop for wheat, but at the same such company. The sole object of our ambition our men of this character, and if we spend one moment time we are persuaded, that it requires less care is to fuster a spirit for improvement among our time the latter in the management, and may be on agricultural friends, so that they may be enabled to successfully compete with foreigners in their own market, and also those in the markets of the Mother Country. By study and close application to business, the Canadian farmers may competen with the farmers of more genial climes in theraising of breudstoffs, and we fancy that if they study their own interests, they will make it as point to carry into practice, as far as practicable, the directions which we may give them monthly. Although we may have taken a wider latitudes than legitimately belongs to the cultivation of the variet; of grain which stands at the head of these-hurried remarks, still we hope they will prove acceptable and profitable to the generality, of ours readers. Before we close, we would remark that: there are cases when it would pay the faimer to: sow pease as argreen crop to be ploughed underfor wheat, and there are other times, when it might be advisable to convert them into dried have for the winter feeding of cattle, and there ares other times when it might answer a very excellent pulpose to sow a bushel of gypsum per acre on the peace, to give arrength and luxuriance to the haulm, and at other times it might answer a profitable end to feed them on the ground to swine; but as eoch of these points would require a separate article of itself, we would for the present draw our remuks to a close, simply by requesting the sensible portion of our subscribers to test the plans recommended on a scale as ciently extensive to satisfy their own minds on the