the fore-feet; and they may be perfectly free from disease, and one fout smaller than the other is often congenital, and this neither predisposes to disease nor is an indication of any morbid condition, unless the animal is lame; or the inequality may be due to the shoor, or to a shoo having been lost.

Largo hoofs with prominent froge and rather flat soles, are generally found in moist countries, narrow small feet, with hard. dry horn, and rather diminutive frogs and concave soles (Fig. 2), are usually observed in dry climates with rocky or sandy รดปีย.

Black hoofs are composed of tougher horn than white ones: and the hoof which has not had the front and sides of the wall rasped by the sheer, or its texture damaged by oil or hoof o, itments, is generally smooth and shining. The fibres of the wall become obtiments, is generally smooth and the soil had been brought into proper seasons are short, there is no denying shining. The fibres of the wall become trim by the timely use of the plough, that, but the same rules for the ma-softer as they are deeper, until at last the harrow, and the grubber, the nagement of heavy land obtain in this when near the inner surface they are manure was received into a kindly country and under this climate, as ob when near the inner surface they are manure was received into a kindly country and under this climate, as ob quite soft and pith-like. Hence the repository, its elements were gradually tain in England and in Scotland, as great importance of preventing the freed from their, so to speak, inert con-thus : shoer from touching the front of the dition, their material fostered, and I it will pay you better to lie in bed, wall with his rasp. All he has to do when the moisture and the organic or as we used to say at home, to play with regard to the hoof, when shoeing acids had rendered them perfectly at skittles or nine-pins, than to touch it, is to reduce it properly, then fit a shoe to the size of the circumference the tiny radicles of the infant plant "" clung." How often have you seen

The Farm.

On the Preparation of Land for Hoed-crops.

A thoroughly practical farmer in England being asked the other day what was the best manure for the

root-crop, replied : good tillage. What he meant to say was, that successful root-growing depends, not so much upon the use of such or such a fortilisor, as upon a finely pulverised, moist soed-bed produced on land in good condition from provious good farming. Not that the man in question had any doubts as to the boneficial

ploughs his land, in the full, laying it well up in moderately wide ridges cross ploughs it. after harrowing, it the spring; drills it up into 24 inch drills; spreads the manure, splits the drills and rolls them down; sows 31 lbs of swedes to the acro, keeps the horse-hoe going from the moment the first sign of the rows is visible, singles the plants at ton inches hand hoes them deeply, and the affair is done.

Well, one of our readers may probably exclain this is easy enough on loose, kindry soil like the Sorel sand, but my farm is on a heavy clay, how can I manage to reduce the harsh. cloddy surface of such a soil in time effects of superphosphate, &c., but his for sowing a root crop? It is not imlong experience had taught him that possible or even difficult, we reply, it it was but too often that the bad you will go the right way to work. state of the land on which they were if you will be patient, and not try to east, in great measure invalidated muddle the land about at a season their powers of action ; whereas, when when it had far better be at rest. The

F10. 1.

of the wall, attach this by as faw nails without more trouble or delay than was when the season was getting on, land is may be consistent with security, absolutely necessary. I of this kind cut up into slivers, that, and rothing then remains but to elenct or turn down the ends of the nails t the face of the wall. The latter vation. Science, properly so called, all the powers of the harrow and the should pass in a straight line from the acknowledges this, but the false roller to disintegrate them ! coronet to the shoe, and not be chopped science, of which there is so much in "I don't hold with fall-ploughing," off in an unsightly, stumpy fashion the air of the present day, seems to between the clenches, as is so often the take it for granted that the crop decase, because the sheer will make the hoof fit a shoe which is too small.

The art of shoeing is simple enough when properly practised; it is the cruel manner in which the hoofs are to deal with that which ignorance has cattle, not by any means too well fed, despoiled. Shoeing need not, should and from the stables and cowhouses not be a necessary evil; but if pro- of the town of Sorel, in which, if the perly conducted it ought to confer animals are in no worse condition in benefit, and enable horses to live spring than they were when they corn or roots—has been cleaned in the longer and do much more service than went into winter-quarters, the owners fall and laid up in the early winter in if they were not shod. In fact, unshod are well satisfied; and of this he can good shape Spring arrives; the wind horses in moist climates and on arti- only secure enough to be able to and sun have thoroughly dried the ticial roads would be of little value to afford a very moderate dressing to surface, and the dust has begun to fly man. The horse's utility and strength each acre of the 20 he usually sows about : what shall our first operation

Good root-crops are hardly ever seen but in association with good cultipends entirely upon the use of this or that fertiliser. Were this accurately true, would our friend and pupil, Monsieur Guevremont, succeed growing such superb crops of swedes

when attacked by the sun, hardened into almost iron-like bands that defied all the powers of the harrow and the

another will say : neither do we, unless it is done where the land is in fit condition, and unless the furrows are laid up at the proper angle of 45°. A flat furrow, beaton flatter still by in the spring rains, is not in proper form to be attacked by the harrows, neither, cruel manner in which the boofs are as he secures every year on the poor when the water runs after the plough-only too often mutilated that causes Sorel sand? Not at all; all the manure man in the path just made by the it to be a difficult art. requiring skill he employs is derived from his own plough, is that the proper condition in which to work heavy, or, in fact, any

are multiplied a hundredfold by the with roots. iron rims attached to his feet by the skilful artisan, while his foothold may be rendered much more secure by this does just what every good farmer, in the former is apt to render it *deaf*, ference this makes on an acre of roots, appliance.

moisture necessary to start the young germs into life will have evapor-ated before the advent of seed-time: on heavy land, turning up the raw bottom of the fall-furrow will, in most cases, produce clods that will be found hard to reduce. Therefore, instead of cross-ploughing which would bury the fine surface brought about by the frost, we will do the work with the grubber or cultivator, and pass this invaluable implement over the land t vice, along and across. On heavy end, some clods, more or less in number, will be brought to the surface and these must be pulverised : by the harrow or the roller? Well, our idea is that, after the land has been allowed to remain drying for a few days, the passage of the roller will more surely break down the clods that if the harrow preceded the former implement. Most farmers who observe will have seen that when the harrows have brought clods away from their bed of earth, so that they lie on the very top of the soil, the subsequent passage of the roller over them only kneaus them down into the ground again. So we recommend rolling after the grubber and harrowing after the rolling. It will frequently be necessary to repeat all three operations, grubbing, rolling, harrowing, for, as we said at starting, "good tillage is the best manure for hocd-crops."

The land is now, or should be, fit to receive the seed, whether of maize. swedes, mangels or carrots. As all of you who grow hoed-crops are accustomed to sow them on drills, we will take that plan; and, first, what distance apart shall we choose for our drills? In Scotland, where the system was first invented the distance betwoon the drills was necessarily regu-Inted by the construction of the common plough, as, originally, there was no double-mouldboard plough such as those perfect implements we are fortunate enough to possess to-day. Every drill, therefore, had to be made by a bout of the common plough, and that implement, as usually constructed, made drills of 28 inches apart more perfectly than those at any other interval. But some thinker among the plough-makers hit upon the idea that if the lower side of the mould boards of the "earthing-up plough," as it was the.. called, were cut gradually away towards the extremities, it would be able to go deep enough to form a properly shaped drill, or rather to form at each passage two halves of two drills. Hence, by altering the widths of the mouldboards, we are now able to make drills of any desired width apart from 20 inches to 40 inches. A marking bar jointed to the beam, was subsequently added to this implement, which was the only thing wanted to make it complete. In spite of this im-proved tool, the distance between the drills still remains, in the majority of cases, 27 or 28 inches, whether requisite or not.

What should guide us in the choice of the distance between the drills? To our mind, two things: 1. the space required for the due expansion of the roots and leaves of the crop to be grown; 2 the space required for the passage of the horse-hoe between the rows of roots. It would be absurd to plant champion potatoes, the haulm of which frequently attains a length of from 40 to 50 inches, at the same dis tance apart as early roses, the haulm of which is not above half that length.

