same track and turns up tho under sod, which is shovalled out also, then the ploughs go on to the next trench and open It in the samo mannor, then buth of thoye trenches are ready for work; the tirst plough goes along the first trench, and turns the surfuce sod into tho bottom of the trenchos; the next plough follows and turns up the under sod or subsoil on the top of the surface sod, then on to the next trunch the same way, until the whole is finished; then apply some lime, which is harrowed in provious to tho next plough. ing in Murch, if you intend it for a green crop. You are to remark that this ope. ration would not answer unless your ground is thorough.drained, or in a dry state.

Turnips were the first crop taken off the piece of ground I managed in this way after thorough-draining it. The average crop was about 45 tons, whereas the other piece of the field was not more than 20 tons, after getting the same com. plement of lime, and also of manure: lime at the rate of 40 barrels to the acre, and about 40 tons of good farm. yard ma. nure.

I have no doubt but this plan would answer for parsnips or carrots; it does remarkably well for mangel or beet; the largest I ever raised was in a few drills in this piece of ground, which was at the rate of 80 tons the acre. Its subsoll was a retentive clay, and the surface sod was nearly a mas: of couch.grass.

I am a great udvocate for your paper. which is a sheet-anchor for the Irish far. mers.-Yours, \&c., J. M•Cormice, Cas. tlebellingham, Sept. 30, 1847.

From the Furmers' Gazelle. NA: URE'S PLEA.
thoughts and fragnents for immediate consideration.
Sir,-The trongesi argument that man can use in persuading his fellow man to pursue a proper system of agri-culture-such as the natural habits of the various products of the farm, the soil and the seasons require-is supplied by nature. Certain circumstances exist : these should be duly and minutely noted; certain results are, or are endeavoured to be produced, the proper means for effecting Which are, too often, too generally unthought of, and neglected.

- Many circumstances combine to blight the farmer's hopes, a knowledge of which is most important. The good physician when called on, endeavours to ascertain the previous habits, pursuits, and constitutional affections of his patient, and the peculiarities and advantages, or defects of climate, and then prescribes. So the egricultural physician should study the habits and requirements of agricultural plants, and the circumstances and conditions that conduce to health, before he presumes to give advice on the treatment of agiricultural maladies, and subject to his interest and his will-in the manu. facture of food-the elements of nature.
If inanimate creatures, the products of
tho farm, were imbued with life, reason, and speech. such as pertain to man, wo should hear them enprese thoir reasomable demands-their grievances and bad burbaric trentment, in something of the following soliloquising strain:-"Man, intended lord of nil cremtion, nwake!arise from tho slumber in which, from apathy and indolence, you have indulared for ages. Woare thy creatures, called into existonce by thy Creator and burs, for thy pleasure, profit, and supporl; but mark you this, nad note it well, engravo it on yous memory, so that time nor cir. cumstances can never efface nor blot it out,-we have not, unaided, tho power of self-reproduction ; the duty of providing tho conditions necessary thereto rests with you; and we, like giateful servants, will perform our allotted dutics faithfully, if you do yours, and repay theo amply for all thy labours; but neglect to provide our proper dues, such as mature intended we should receive, and, by our stunted growth, you will be punished for your penurious treatment of us, and we will show, and convince you, that wo are not to be neglected with impunity."

A rich harvest has been reaped, sufficient, so far as abundant produce on the ground under crop can avail, to compen. sate for the past ycar's fumine, although it is miserably incficient to meet the exi. gencics of the times. Such inight act as a stimulus and inducement to energetic exertion for the future, but there is a too palpatle neglect of preparing vigorously for the next year's agricultural campaign. Irue, I observed the plough in several fields employed in timely duty, providang partially, for the beneficinl effects that arise from atmospheric influence on new. ly-turned soil; but how? The narrow ridge, and shallow, thin furrow are as prevalent as if, with the former, it were possible to plough deeply, and not tramp and consolidato the turned surface, or that draining and deep cultivation were terms, the meaning of w'..ch has yet to be determined. The mode of cultt if green crops is equally objectionable. The drills are all too close, and the grond is crusted and hard, so that, if nature had adapted the bulbs for expanding and forcing back the solid, unflinching soil, and the roots to penetrate, withoul assistance, through innumerable obstructions in search of food, thero might be good crops, Afterculture, or maintaining the ground in a loose, pulverized state, without which there must be deficient crops, has been sadly neglected; romedy for the present crop is now all but out of the question; the season of vegetation, even of the Swedish turnip, is on the ove of being numbered with the past. The ensuing crop need not, should not, be left to struggle with unnecessary obstructions, and now there is not a moment to loose in forc. ing on with the preparation of the ground. Even now part of a glorious season has been lost by those who have not yet commenced to plough or trench their ground. It should bo horne in mind, that, as soon
as tho harvest, or a portion of it, is re. moved, at overy conveniont time, the state of tho weather permitting, tho pro. paration of the ground for the next erop should havo precedenco of every other work-the saving of the remninder of tho harvest alono excepted.

Nnture is decisive in pointing out the proper seed time. We have the dormant senson, when she is, or should be, at rest, and wo have the season of spring, or ger. mination, when she bursts the bonds of the scemingly non-existent state of the seed, and ushors it into its fast.flecting reproduction age. Wheat alone except: ed, which, by right, which should havo twelve months to vegetate, mature, and ripen; our principal food crops require from six to eight months; but often one, two, or thice months of the vegetive son. son aro allowed to elapes before the seed is committed to its reproductive bed, and the blighted crop and unripened grain tell with vengeance that nature's laws were violated; hence the sluggard who neg. lects timely cultivation, camnot expect good crops. He must allow nnture to direct as to the proper time, and he should remember that he can only accomplish timely sowing by preparing the ground in proper season also. Often the plough is set to work in spring, when the seed time has arrived. This should not occur agan.

Only that the practice is still persevered in, it might now seem unnecessary to insist on deep cultivation, the benefits to be derived therefrom are so generally admitted, but the use and application of manure are less understond.

When tracing out the growth of plants by their roots, I have often observed the young tender fibre to contract with fermenting manure or putrecent matter, to become disensed, and to permaturely decay, and this in general, I believe, ultimately resulted in an additional set of branch fibres sticking out of the decayed one. I have speculated on the fact, and I feel stronly inclined to the opinion, although I have not had any experiment from which to decide the point, that using too fresh manure, and putting it directly under the seed, tend to produce the disease or defect in turnips described as " fingers and toes." We know it has the effect on carrots, and from their construction, being tap-rooted, they should be less liable to such a phennmenon than turnips.Strong or fermenting manure under the seed, and in direct contact with the roots of plants, I have long reprobated, and compared it to giving strong drink or strong stimulating food to infants.

I have not space here to enter on a discussion of this important question: I can only state, that reason, nature, my observations, and some ferv experiments, with the concurrent testimony of many of my most experienced correspondents, decide. that the manure, as soon as possible after it is made, should be ploughed or trench. ed into the ground and allowed to ferment in it before seed-time. I can only refer at presont to one great and paramount

