tion in the fiold, not ouly may much reliable informatian be elicited, but a good practical man will not often be at a loss in coming to a pretty antisfactory conclusion.

## Wheat Culture.

We gave some time aro some notices of the experiments of the Rev. Mr. Smith, of LovisWeodon, Northamptonshire, England, in cultivating whent on an adaptation of the 'Iullinn theory. The following exposition of the phan, which we take from the lrish Country Gentleman, will be found interesting:

## AN ADAP'RATION OF THE LOLS-VRED ON HUSBANDRY.

BY A. HALDY, SEEDGROWER.

Some time afo I advised farmers, allotters, and cottage gardeners, to grow wheat instead of the precarious potato, and, for true economy, to do so on the loois-Weedon principle. To render my advice the nore practicable, 1 would now show how this principle may be carried out with the ordinary appliances on other farms. But 1 must show brielly first, Mr. Smith's own system in operation and in its results.

At the outset of his farming, fifteen years argo, Mr. Smith had a fouracre field, which was in grass; this he pared and took of the land, then ploughed it the full depth of the 5 -inch staple for a crop of oats, followed by vetehes. After this came the first tripple-rowed wheat crop, with its wide intervais, which he dug one spade deep, bringing only a very few inches of yellow clay subsoll to the surface. The second year, these well-stirred intervals bore the wheat crop, and the stubble was dug in. And thus year after year, alternately, the same acre of land has had $a$ fallozo and $a$ wheat crop too. In the thind and fourth gears the spade went down a fow inches deeper, and so, gratuaily and rerularly, for four yeas more, till a depth of sixteen or eighteen inches was reached, when he stayed his hand, and after that was satisfied for the four following years with a single spit. Last year, however, he returned to the double spit, :und a fresh inch of clay. The digring, as may be seen, is now two spits deep; and after the pan was a little stirred, the staple, with the stub)ble, was returned upon it; the clods were shatfered, and the second spit, with its sprinhling of yellow clay, was gently laid uppermust, in such a form that the frost mi b ht be let right through the whole These high-ridse: intervals will be thus, during winter, higher than the tender wheat, protecting it aud checking the drifted snow.
The winter fallow over, he levels the ridges
with the horse-hoe, cleans the rows well, and th intervals, keoping tho surface of the later co stantly open, till the wheat is about to llowe Then will come a process peculiar to the plat and which meets a serious dificulty in our u certain climate. We, rotation farmers, har sometimes a heavy erop of wheat, from hig farmina, \&c.; but the wind and the ram, asi the present and many other soasons, we are terly helpless aganst, whilst Mr. Smith enjoys general lumunity from their evil effects. It Groad fillow intervals conble him to the a tur with the plough, to earth up his ieheat wit the mould loord. Immediately after this, th sime day it may be, follows mother of singul elliency in snelling the graia. II subsoils, wi "Sigma's Subsoiler," as deeply as he c:an, wi: two horses, in the centre of cach furrow ju made by the plough, and this closes the wo: till harvest.

The crop being carried, he makes preparati at once for sowing. He first lightly horse-ho and cleanses the furrows; then plourhs close the stubble, casting the carth back again in the centre. There are thus two furrows in en interval, and these he also subsoils, whicl lear the whole of the inad intended for the next er in a perfect hollow and pulverized condition: But though wheat loves a mellow bed, it loath a soft one. He therefore consolidates the s with a double clod-crusher, which takes beds at once, the horse walking on the stubl in the centre. This being done he waits t near the middle of September for the rains, if may be, to perfect the culture.
$J$ would be glad to have your close attenti while I now deseribe the sowing, because uf the accuracy of this process depends not o. the goodness and fulness of the crop, but. great pleasure of, perhaps, a daily inspection the truc lines, and even vegetation of this be tuful plant for ten months in the year.

All machinery for sowing, besides the sing hand dibble, he has long discarded. He reje wen "Sirma's" admirable planter-which hear is su ethicient-believing all to he comp: tively unsafe and inefficient; for, with the hi diblele, the right hand dibbling and the left di ping the grain, he can sec the seed deposit and he knows that it is there in its right pla and at the right depth. He is satisfied too, the rapidity with which the practised worh docs his waik. It is true, his work is mat out for him more accurately and quickly thas could do it himself. Another hand stretch. line nearly, but not quite in the centre, from end of the interval to the other. With a $L$ haud implement, invented by Sigma, which t three sruall muuld-boards, set at the requi destance apart, he now, guiding the m . mould-board by the linc, draws with ali mathematical truth three minute furrom: which the dibbler deposits the seed. And. the whole piece is completed, if the surfor dry enough, he covers over the seed, and $c$.

