which the substantial and somerrhat lofty farmhouse is bituated, overlooking an admirablo lamesca, e. About two lifths of the land is in permanent pasture A good part of the arable land was broken out of this pasture 20 or more yeas ago. Its present tenant has, we understand, lived all his life upon the farm, and certainly its crops, amd its herd and lock, the result of has management-for they are all home bred-do great credit to his judgment and his skilll. There are tw' sets of farm buildings-one $\mathbf{o}^{t}$ brick and wood an. slate amil thateh, inchulung larn and stabling, and several yards, and large aceommudation for cattle ; the other, newer and more systematically plamed, with yards and sheds and central double stalled cow-house. There are here also some escel lent cottages for the herdsman and the shepherd. herd of 45 cows were being milked as we walked round the building, having come into their stalls for the purpose, and receiving at the time a meal of chant, and cake, and bean and maizo meal. They are capital lot of large framed, unpedrgreed Short Horn cors, cenibiting quality as well as suze. They are kept for a butter dairy. We saw also an admirable lot of calves, a first-rite set of yearlings, and a stall more admiralle lot of (some 20 or 30 ) $\because$-years old heifers in the fields. Only the cow callers are kept, the others being sold early. A tlock of lang-woolled sheep (about 240 ewes) are in tho fields. A number of pigs are fattening in the sties (the skim milk beng available for them): and a rare lot of poultry of all kinds spread themselves over the home pasture.
What is there to feed all this stuch? Nut mach that we emuld sre unon the farm just now. Th grass fields are the only home resource, wi blate at present, and they are very bare - there are nu
cabbayces, no veteles, no secoul cut of duicr, and everything else 18 caten very bare : lut, sand oun guide, "our master don't make hisself unensy abutt that-they've got water haid on in cvery fieh, and what little grass there is is as good as hay." Add to this the artiticial feedmg twiee a day, and the cows are taken care of. And for the sheep, though there is a large extent of clover eaten barely dowa jnst now, some of the fields are unocenpied and getting rapidy freshened up with hast weck's rains; and certaimy there is no sign amywhere of any want of prosperons well.doing in any of the stock.
The land is laid out in large fields, from 20 to 40 acres apiece, amd the grain crops are magniticent We have nowhere seen better or nore oven whant, nor barley anywhere so good; the oat erop, ton, is first rate. And these great areas-io acres at a glance-are very strikng the as a very tractable or fertile. It has been drained; and very tractable or iertile. It has been draned; and
$a$ handsome tankard on the sideloward testifies to the fact that it was drained at the tenant's expense more than 20 years ago. Considerable purchases of artsficial manure are made for the mangels, kohl raln, Swedes and turnips, of which we saw one piece of 40 acres in various stages of growth. There is also a large arca in bare fallow which had been worked by hired steam power. Aud thus good tillage, artificaal manuring, and much enrichment of the home made manure by large quantitics of eake and meal bought for the diary stock, together produce the admirable results which this year's crops exinbit. Or the 10 farm horses by which the land is worked, we saw three poweriul suffolks, with ioals by their sides, 12
the ficld. The four course system for the most part rules the cultivation: (1), wheat; ( 2 ), fallow, or fallow crops ; (3), barley or oats; and (4), cloverwell suited, being taken occasionally in the last quarter ; there are no beans this year, however. We saw about 170 acres of wheat, barley and oats, 90 acres of fallow and fallow crops (more than half bare fallow) and some 70 acres of clover An immense produce of grain of 160 to 170 acres, such one-year old nutton as a flock of 240 heavy long-woolled ewes can yield, a quantity of pork and bacon, and the butter of 40 or 50 cows ;-this, with some store stock and some beef, of which, however, we did not obtain detailed infer mation, $2 s$ the produce of a square mile of generally stif clay soll upon the Duke"s estate; and for this, after long years of farm management-persistent, excellent, unpretentious, from thoyhood upwardsthe tenant of a guet, life-long home awakes to find humself the foremost farmer of tho five counties which thes year's district of the Sockety melures

A good field of corn is described by the Danzille Lnion, Indiana, whose chitor says: We found upon actual measurement that it wonld average eleven fect or over, many stallss being found thrteen feet high. We had to stand on the top of a 10 -ran fence to see over the field, and the tops of the cornscencd as level almost as water. We have seen many fields of corp this season, but none letter than this.

## How I Killed Thistles.

The thistles evidently did not suspect my atentions until the latter part of July or Crst of August. Nothing unusual had occurred till that time. The ground-a elover sod-was ploughed in the spring, but that was only what is always done for a corn crop. It was a Iondoner, 1 thme, who objected to farmmg-that "land was alwoys naturally wrong side up, and had to be turned before a crop trould grow," Then the field was inagged, cultivated, rolled and marked out m the usual way, and fimally planted on the 2sth of May. In all this there was nothing uncommnn-nothing indeed that the thistles really objected to The field was ploughed so carly that the young growth had not commenced, and though the plongh dill cut some roots in tro, it only replanted them in mellow soil for a more rigorons growth than befure A week after planting, the field was gone over with Thomas's smoothing harrow ; but that also had no reference to the thistle. If the roots were sending up new shoots, the fine tilth of the soil would make them to grow all the faster. Even the first cultivation, both ways, ame the handhoeng, were not expected to kill the thistles Farmers gneraliy do as much as that, and yet selhon, if tere, mahe much lieadway m thas directionThere was no re,sun why thas should prove an exception. If the routs sulfered a shght check, it was sure to be made up by the long breathang spell commencing at hayng tume and contmued thongh the remainder of the season. Most farmers drop tho hoe then, and what with harvesting and preparing ground for wheat, they never take it up again. Naw a thastle left in mellow, rech ground at early haying tume, will often ripen its sced before frost comes to cut it down. It will spread at the root ame io ready to choke the nest year's crop of oats or barley, and be rampant agan in the wheat the year after.
So it was at harvest time that $]$ begm the real empangn aganst the thastles. The clover sod was rotting and the thistle roots were showing effects in their unusual vigor. The cultivator was run eneh rav through the rows, cutting wit everythung except in the hill. Then every weed of any kimd was earefully pulled from among the corn, and those between the rows cut up by a hoe. Aiter this two more dressugs with a cultivator at intervals of one week apat. My neighbors advised me to watt a little longer, as "the thistles were not ap yet;" but I was determmed that they never should get up. By this tme the corn formed a dense mass of foliage, completcly shading the ground, and the stalks were so bent and twisted that firther horse cultivation was impossible. Just then the barley had to be got m and I waited a whole week after the last enltivation I then went through with a sharp hoe, cutting out every thistle as deep as the hoe would reach in mellow ground, and where the hoe could not go I used the thumb and finger. Taken thus young thastles are a very harmless weed, as they have no thorns worth speaking of, but they do stain the fingers badly. I went over the field onee after that, ending under the crossed and twisted cornstalks. But there were few thistles. Keeping them under ground so long, together with the dense mass of coliage above them was too much, and they never recovered. The corn was followed by barley and that by wheat, and not a thistle was to be seen in either crop excepting close to a stone fence on one sude of the field.
Now for summing up the cost and results of the operation The fich was one of the most weedy on the farm; yet it was cleaned in one season, at a cost of two cultivations cach way and two hand.hocings more than every farmer gives. These came at a season of the year when labor is most expensive; but estimating it at its highest, it did not cost me $\$ 6$ per acre, or say $\$ 50$ for the nine acres in the ficld. Thus would include pay at $\$ 1$ per day for an old mare to do the cultivating, while if not so used said mare would be m pasture duing nothang. I am surc I made sio worth more of corn than 1 shonld if I had not tried to kill the thistles. The second hand-hoeug and pulling the wecds from the halls more than pand the rost It cance just as the curn was carmg, and made the ears fill beticr if not grow longer. At rast snmecthing caused an unusual mumber of stalks
to produce two cals, I lad it to lilling thastles The only loss was the usual stolen crop of pumpkins, which I ded not phant that year because 1 expected to cultivate later than is common, but the pumpkun crop grown in this way, lile everythug else that is stolen, always costs more than it is worth.

No farmer is oxcusable for haring thistles on land that has been in corn. Killing them costs nothing but the use of $\$ \bar{j}$ or $\$ 0$ extra labor per acre, from July till the crop of corn can be harvested and sohd and every cent repaid. But this is not the whole or rreatest advantage. The land is cleaner for all iuture crops. Millions of weed seeds are stimulated to growth by the unusual thoroughness of cultivation, and these are got rid of forever. Frequent stirring of the ground breaks the crust which forms on the surface, and makes the soll absolutely more fertile than it would have been. I got ten bushels per acre more of barley than I would if the corn had not been cleaned of thistles. I am sure 1 got nt least five bushels per acre more of wheat. And the field still shows the good effects, and is worth at least $\$ 10$ to $\$ 20$ per acre more than if sovered rith thistles. So then for the use of \$0 for three months, I got a return almost immedintely of the capital, hwidends of 100 to 200 per cent. ior two years, and the capital is ummpared amd capable of yiedding equal dividends for ycars to come. Can anything pay better than this? -Cor. Country Gealleman.

## Cloaning Carrot Seed.

Gather the heads when fully upe and thresh them with a flail before the stems are brittle enough to crumble or break up. Rake these stems from the seeds, then put the secils in some vut of the way phace until dry, coll, freczang weather mathe water. By threshang the seed with a lian when frozen dry; the fuzz ean be separated from it by ruaning it through a fanning-mill. The sced, and : any fine dust, will fall through the whent sercen into the screen-bor. The seed that goes over the screen can be threshed again. After the seed has once passed through the wheat screen it can be separated from the fine dust by putting a grass-seed seve (or any sieve too fine to allow the carrot seed to go through) in the phace of the wheat screen. The fine dirt, to heavy to be blown out, will now go through this fino sieve into the screen-box, and the clean seed will rass over. Two men will thresh and rlean 300 to 500 puands of sced in a day. Ur nf you wish to prepare your seed for manhet thus fall, you can do so by drying it a day or two in the hot sun after separatung it from the stems as before recommended When thoronghly dried in the sum it can be threshed and eleaned as readily as when frozen; but it ean only be done when the atmosphere is very dry. 1 frequently see mquirics, how to clean cucumber and tomato seeds? When the crommbers are fully ripe. but still suand, cut them into halves, give each half a sudden squeeze rith the hand, and nearly every seed will be forced from the cucumber. Tomatoes may be left till very soft and the whole jammed nup fine, or they may be rubbed over a sieve coarse enough to allow the seeds and juice to pass through into a tub Let the pulp and seed (either cucumber or tomato) stand in a barrel from one to four days, accordng to the weather, to sweat just enough to allow the pulp to separate from the seced. The whole can then be washed through several waters, and the secid dried. Care must be taken not to let it sweat long enough to injure the vitality of the seed. - Cor. N.Y. Tribuze.

It has been suows that at the Michgan Agricultural College a single bushcl of plaster added a full ton of hay to the yield of an acre of ground in the five, most of it in the four mowings that followedtwo crops being taken off the ground each of the two years succeeding the sowing of the plaster
Keering Old Potatoes.-Potatocs, to be good, should never be exposed to the light, but be kept 11 as dark a place as possible. After they begn to sprout in the spring they should be taken up from the boms or heaps amd ho kept in bexes or barrels. If you have a few barrels saved out for family use, instead of pieking them over and spreadmg them cvery fow weeks, put them moto enough harrels so that you can casily turn them from one to another. Have one extra barrel, and once every weele turn them all out from one harrel to annther This kecps them moving so often that the sprouts camnt grow enough to do much harm The sprouts which come out tron the potato use up the nourishment it contams, and leave it soft, watery, and insipid. By treatung them as preposed above, they may be kept ma condition for the tabie severni werks longer than
by sproutug them, aud at the same time save a deal of work.

