## The Real Benefit of Machinery

Those who depict so elonuently the pleasmes of modern farming by maclinery, draw moro on their magimation than thoir experionce, I have tried it, and whila I do not despair, I is often discouraged. 1 haro a machino with which 1 can, and do, tum the frimistone, cut fodier, thrash, grind the grain, frive the cider mill, gatr Food in tho log with a dme axw, ar cord wood witha circu +5 saw. This it will do. and do well, but oh, tho care or keeping all these thags in order nat gettins them to work well. I have a polato planker, that it one operation marks ont the rows, cuts the polatoes, drops tho as:s, cowns hiem up, and rolls the ground. $N$ iso one that drills thetro acfes of corn nal beans in a day, and does the work well. Wo lave cultivatom that leavo rery litlo to be tone with hanilhoes. lie have mowimg machines and reapers that learo litho to be desired in this direction. The tedhing machine shakes out the hay as well as it ean be tone by haminant tire times ns fast, the wooden revolving sake palls it into wiml-rows, a piteling machino attached to tho back ond of a waggon will, curey the lay on to the load, and a steel foothed sulky mke makes all clean. Then nt the barn wo inload with a horso fork, and the firmer can git in the shade smoking the pipe of contentment as he witnesses the operntion. Then we have a machine for milking cotts, and another to work the butter, while, if 5on make checse, the American yats und presses make tho labour mere chill's play, compared with the old Cheshire system. I havonot tricd hese hast named machines, hut 1 hase little soubt that they work as well as some of the others I hare named. The grain binder, too, I lave fanh enongh to believe witl soon be attached to erery reaper, and hen with it steam phongh and a goon potato dicger, won' farmers lave an easy fime $\begin{gathered}\text { Not a hit of it. }\end{gathered}$ If these things would run themselves ; if they never got ont of repair ; if they limi no disposition to lic ronnd loose, but wonld put themselres up, then inheed we shonid be th genalemen of leisure. ${ }^{25}$ Int this will nerer be. Ifo can change ons work, but
we can nerer get rid or it. if we do not work with we can nerer get rid of it. If we to not work with aur musles, we mask with our brains. And the oncouraging feature of this age of iurention is not that these + linhour saving machines do the work so much cheaper, as that they change the chanacter of the labour reguired in agriculture. They lessen hackloreaking drubery, and increase mental nctivity: A firmer who nses a good deal of monehinery cannot be dull and stuphl. It will make a man of him. I axpeet great lhings from the youmg famers of inaerca. There is everrthing to encourage them: soil, clinsate, social position, politieal intluence. The lesting of the country is in their hands. Dint hey must not expect to live lives of case and haxury Ifrains ratber than muscies will be required in tho ner condition of our agriculture. Machimery will stimnato mental actirity. athe encourago the growth of that rare grace, batience '-llurris, in am. Aori= zulurist.

## Smut in Whent.

Tas prevailing opinion nmong Eiropean writers is, that srout in wheat is caused by an insect-an enelfike worm-which is said to be in the seed-whert when sown, and by the moisture communicated to the seed in the earth the insect is casabled to burst lb: walls of its prison, and, cseaping, rises to the sufface and secures a lodgment between the leaves of the proving plant, near the centre-as the grain whera it begims to derclop. It then worlis its way to the head of the growing wheat mud makes its entrance into the embryo grain, which destroys the matural derelopment of the wheat and eauses tho disensed ransformation which we call smut.
In the Ohto agricultural report for $185{ }^{\prime \prime}$, the nbie and efficient secretary, J. \#x. Clippart, harnished an article with eareral illustrations, giving the natural listory of tho insect and its uffect upon tho wheat plant. The hels given were chielty alcrived from tho whserrations of 1stitish mud continential Faropean writers, and it may be considered presumplive in us to allempt to conlrovert such distimguished sutharity. But we will, noverheless, renturo the opinion that how worms found in the disensed grains aro ruther the effect than the couso of the disense. All diseased bodies, whether anmal or vegetabic, ara subject to peculiar kinds of parasites. Tho discnsed stato of tho subjoct firmishes the requisito conditions for the propargation and dovelopment of tho insect. Wo auow this to be the ciso in thonsanais of instances, and judging from analogy it may be so in tho enso under consideration. The insect is denominated the Anguitlula Fritica.
In the Journal ale Agriculure Praclique, M. Moningue, who draws lis information from a Froneh maturalist, who lias giren tho subject much atteatior,
gives the following as the menns most eficient to prevent its increase. It matters loss whether thu in sect is the cause or the ffect of the disease provilet heremedy is effectund.

Tho anthor, as a substitute for lime as usually op plicd, which ho says has no good effect upon the iving insect, recommends aciunlated water, composed of one part sulpluric seid lo a lundred nod afy parte of water, bu which the wheat is to be sicepat trenty-font homs, this he asserts will ehectually destros all the cmyuilhates conthined in tho geain. This process of prescriation is nember expensifo nor dificult to carry out, and lint tho germinating jro. werties of the grain are in no way injured by it.

It is aleo recommended that the oreentigs from disensed grain bo taken caro of so as not to find their way bacli to tho fiehas in the manura or othervise It shouth cither be burned, or, if cast to the forts or other firm stock, it rloonhl frgt be gubmitted to a empemiure suficient to destroy the life of tho insects.
We throw oat these hints for what they are worth hoping that they may lean to sueh oleservitiona as may famish oulitional light upon the subject.-fit man's Ilural W'orkd.

## Holping the Soil.

Tne goud farmer does this, Nature does not almags make p perfect soil-indeed butachlom. Then the furmer's aill comes in exedlenily. He is supposed to bo a man of understanding ; if not, ho bad batter be employed in something that he has capacity for. The means to lulp a soil aro not scant. What ground geaerally lacks is manure. Manure is the best one mpretient that con be appled, as it contains the principles of many olhew. it moistens soil ; it melprinciples of many onhers. If moistens soil; it mel-
lows it ; it drains it ; it guards it against frost and lows it ; it drains it ; it grards it against frost and
sun. It is for this reason that so much manuro is sum. It is for this reason that so much manure is
used, and, comparatirely litto else leople will do without it sub-soil phough, without ditching, wethout a mowing machine, withont even a horse mate; bnt they uso manure, more or less. It is well for the hand that this is so. Nature has mate some soils too wet for firmitg purposes-minought to mect her ent they were properly made. The farmer oned not be tuht that, to befp this soil, hu mast arain it. He then gets the undereloped richness. Pulrerizing it and stirring it lecply, so lisat de leat and air can get down, is another great thing. Theso are the main thingssimple, yer how lithe tone.

Nature gives you tho soil; you holp her, and sibe helps you in roturn-molps yon white you are doing it. She heeps your gromnd moist when you mellow it and she lets the air pass into it with its fertility which sle took from negligent barn-yards-and this fertility she leaves with the soil-so that the farmer and nature are helping cach other. Thus our farms are improved. How are ney deterioratedit By $3+91$ the opposite course-hy neglect. The more wedo for onr firms, the more nature will aid us; and thus he better will be our land. The trath is, weare onty helping nature at the best, and sho pays us for what we do for hor: the land is etill bers: she forever holds the title deod.-Colman's Rural Hork.

1tatsia Poratoes csmen Strantwo On a recent rip in the S. Clair Connty, Ille." sqys friend Colman of the Rnsal Horld and Valley Jurmer, "we asw hunireds of acres of lamd cosered with straw. The groind had been phoughed and harrowed and mark: ed off, and potatoes dropped, and then the wiole sitr-
faco corered abont six itiches deen with straw. The aco corered about six inches alees wilh straw. The
potatocs hare no further atiention tin digging time potatocs hare no further aliention till digging time When tro or three hamercel unshets per acre are obs soil cool and moist. The otraw is raked away in autuma, and there lio tho notatocs whito and clean The stran potatoes bring tho highest price in mar ket."

Soctces of Fans Maverw,-W. IK. White, of Sonth Vindsor, Conn., writing to the Bosion Cultwator on bo resources a farmer has from which to dme ferti izers for lis land asks : "Doss tha rewder make the most of lis resources? Is there nothing left that can ho conrerted into fertilizing moterin). Ilow is it with the hog-pen? Ls that well supplied with good materiat to mbsora tho ligina as wen as the ammomia? $A$ fre supply will tend to beep tho loge clean and firs nish a quantity of manure. Then there is a pripy, which is too frequently allowed to wasta itsammonia instead of nusorbents supplied to fix it. a tight fanit, into waich dry mach, plaster, loam, de. may bo iniroduced and mixed, will supply sorernl loads of poudrette, superior to mhat the marke affords
with litho labour. Tho bea-roost will supply several barrels of good guano, tho quality of which there is no question, when home-manufactured, by supply of
dry loam, plastor, sce, trith frenueni ovorhauling

## Stock texparturut.

## Summor Management of Shoop.

Suser are fery liable to fyrblom during the show cry and hot reather. They shouk, therefore, be carefully examined morning and erening, nnd any sheen thai appears to bo "struck " should ho caught and examined. If maggots are dereloped, they should be scrupnlously remored, and the part dressed with a lotion gently rubled into the roots or the wool. By dissolving twe ounces of corrosive sublimate in a quart of water, a rery usesul and appropriato totion for tho purpose is obtained.
Sheep are also much disturbed and annoyed by lies attacking their heads. If the akin is broken caps made of calico and dressed with pitch or swee dil and white hellefore ghonld be put on the head Leicesters-more especinlly the young rams-are subject to the attacks or theso industrious hittle pasts. A temporary sided crected in the feld not only pofects them from the glare and heat tof the sun, bat also in"n great degree mitigates tho attacks of Dies.

Sheep that were not dipped at the lime they were clipped, should now be bathod ina liquid preparation. Unless this essentinl precaution is observed they will 60 infested milh skin parasites. Lambs shoma be aimilarly treated. Unless they have been well care or they are mrolably now swarming with ticks.
There are varions specifes ndyertised for the destruction of sheep parasites. We beliere none to be bether than the preparation advertised in our columas by Mesars: Hugh Miller \& Co., Cheraists, of this cily. In preparing the bath, the careful flockmager will stody and minmtely follow the printed directions that accompany every package. After the sheen are bathed. they shonld be allowed to stamd in an onen ynul or other enclosure free of herbage of any kind to allow the liguid,-which is necessarity poisonous - Jo drip from their Reeces. We haro known in our aperience, several instances where numbers of sherp tave heen poisoned from neglectiog this simple precantion. No mmach of farmimg pays luetter than sheep mashandry; but in order to olitain the maxi num profit, good feeding and careful managenea are esseatially necessary.

## Show-Yard Abases,

We extuact from a recent issuc of The Farmer the ollorine practical suggestions on this important sulaject. They will amply repay an attealive perusal :"Or abuses, the most obrious is the overiveding of brealing stock intended for exhibition; and while it mmedate effects are open to crery obserter, of its altimato results we seldom hear much. Nany a fine heifer, howerer, has foumdered on her first eall, simply becauso she had been the fortuate winace in he section at previons Rayal Shows. Victory on such terms is dearly bought; and it has often oceurred te us that-oir congratalations to the owner should be deferred unth it is certain that his minning heifer ba successfully passed the ordeat of "qualification, Then. indeed, congratulations would be well timedn a double sense, too. considering the risk that bad ween run; wtereas these are often premature wisen ontered as the animal passes ont of the ring bearing he tokens of the judges' approval

Nor is the haneful fractico of overfeeding con incd to the female classes of our Show stock, or even ocatle Bulls, sheep, swine, and even horses, ar ed to such a degree that the animals are not nufre ghently put out of shapo altogether; and instead of being fit to produce their kinds, they are forced into more wadhing monsters, at which one may look with wonder, bat never with genaine admimation. $A$ true judge will frequenty derive much greater satistaction roun an iaspection of tho samo description of stock kept at home in a mataral state for breeding parposes han be will do from looking at those which carry of the lyonours of tho Show-yard.
" Yt is well kaowa that the evils of the system of orer fecling show stock of all kinds lave been frequently deplored, and strong representations made on the sub ect by breeders, and wy the agricultural press. Xet up to the latest show of breeding stock that was helin there was not the slightest symtom of improrement. It seems strange that the parties most interested in tho matter shonld be so much opposed to it. and yet that nothing is done to remedy the evil. The reason is simply this, over-feding las become a hashion, ane breders know very well that uuless they yield to they may keep their stock at home, for if thoy ven bured to shom their cattlo or sheep in the atate thes would be kept for lureeding, no one woald look a them.

