the others, as they are ensily des thoyed in comparlson.
In considering this wed, I maty oh serve that 1 have heard mueh disens sion as to its destruction, but inve nut Fet met the barmer or experience, who has the larilhood to say that it is casily destroyed. I sowed it with somb fmportend grass seat, and after an ax mertence of over to yems with it. I ap broach the question with at dithdenc horn of defeat.
For after having many times thought I had them completely mastered, intother ploughing brought a fiesh lot to contend with. And until the theory wheh 1 lay down, and a method persued. accepting that theory as a basks. 1 do:bt the practleability of destroyng weads.

## JHE SMOTHPRING METHOD.

I cham that the general fiea that datisles (this fincludes the other weeds named) grow from the roots, that is. that an inverted daisy-root, coveral in, fin the groma. will grow again, is erro. hecons. On trial it will be fomm, that at daisy inverted, and covered up, is destroviet. It will also be found that the new growths are competely on the surface of the gromb, and not attached to the old root. Thls beine a further moot that they do not proced from the cild root.
l'receedlug on this basis, we will consider a meadow. The first object is, to prevent the weeds from seedins. To do this the grass must le cill about the middle oi June, fmmedlately phoghed, properly harrowed and seeded with long red clover. and orehard yrass, harrowed in. and rolled, ano untll the next ploughing. all the weals I have named except Rurdock and Daishos, will be immediately smothered by the clover. For the purpose of preventing the seeding of the daisies, it will be neessary that the crop be ent infore there is danger of shedding seed. or, of heads which may fall to the ctound being able to ripen the seed in the head. It is very obvions, that after one year of complete work of this kinul. or two years, the usual term of he of chover, that there will be no seed upon the surface of the gromm, and that unon the ploughing of the field all the roots will be smothered. excepting those that may grow up between the furrows. ilere again however, a complete sedin:is turned up by the plough, which must be proceded with as bofore, and, after another ploughing, If the work has been thoroughly done, the daisies will the completely destroyex. With this method there is no loss of the use of the land, and if the manure made from the crops, is made use of on the land it will be in ietter condilion than before the effort to destroy the daisies commenced. But for those who desire a sudden and complete destruction of weeds, there is nothing equal to the
sGMMER FADIOW METHOD
Propery done, with this methon they will be thoroughly eradicated in ane season.
Another method is the

## HOED-CROT MIMFIOD.

With this method, two successive hoot crops thoroughly cultivated, will des. troy weeds and seeds of all kinds. The use of the Harrow on potato lands, and on mellow land the horse rake for corn are areat helps in the early part of the season. And the drill harrow, and culturator later on, will be found excellent, and with very lltie hoe work on the dillis, the weeds will be effectually des. trused.

It will be observed, that in the ulforent methods, there is a differenee ith lengtli of time necessary to suceess.
The smmmer fillow requires one sear: with loss of a season's crop. Hoerl crops regutre two sears, without loss or crop. dind the Smothermi Meadow andhod, she yems whont loss of crop. The fallow and hoed erops are no dombt more effletent, but. In this irovince of datry farms the smotherins meadow method is more conrentent, and if falthfully carred out. quite effective.
It will also be observed, that aceording to the theory advanced, it is imposible to destroy the weds while erop. ming with grati, as the seeds of weets fall before the earllest gram ripros. Ind the fact also, that weds are often well adrancex in growth, before the crop is sown, espectaly is this true in molst seasons, and when the plourging has been done some months before.

## IUURDOCNE.

Du annount of euting will deatroy thiss voced unles the tap roor is cout seremat mohes below the surface. da old chisel of sood stae or speed, is a proper innelement for this. And for weeds of all kimuls anoms orain, a wery light, and hamd fmplement, is a Scotch reap mig hook, fastened io a handle about six feet lung, of sprace or other light woek. With this, a worker can by
 feet on cach side of him.

## THISTLES.

Where the system of continuous grain growing is mursued, this is a troublesome weerl. on account of its carly maturity. But after the first catting of them in a clover meadow, they will be lost sight of until the ceds are again plonghed ont.
One more point and I have done, There is not the slightest doubt that the theory 1 almance is correct. Soris there the least doubt that the methods I propose for the pracrice of that heory is successful. But It is also true, that one load of umroted mamere, made rrom ripe dalsy hay, and soatterev on a hied, will wreck the hope of years Aim don't forsct to jut that amber sour bonnet.

IHE MEST METHOD OF IMPROVING PASTURE.

There are so many conditions conneeted with thls matter, that a gemeral rule cannot le had down which would :answ
field
We will first consider the case of : tiell which is undergoing the system of a rutation of erons, or, which it is m tended to pasture, after it has been in ateadow for some time.
It is well known that there is not a surficiency of grass roots in at meadow to make a good pasiture. And the usual custom of shmply turning the sluct on the field, does not fulfil the imm pasture. And in such a case, the first thing done by the stock, in its chorts to get a bite of grass, is to man up the luibs of the root of the timnthy: autil some times they can be gather(m) lig the landalu.

Whint ALE TME REQUISITES TO cossmitute a good PASTGIE ?

A thick coathes of verdure. I am aware of the supposition that it is necessary to harrow in the secds sown in a nasture. It is not so at any time, and more particulaty on a meadow such as we are constdering.

One year before it is intended phachus the fied fin pasture, in the eanly sprine on a light show, brondeast one lb, eated of short rel clover, Alsilion clover, Orchatd grass or lucerne, and lied Top. I noukd also add White Clocer, but as it takes a couple or sears to the or mund arcomat, except for permament pastire, It does'at pay. In the following stime there will be a thick mass of teed. frowfigs between the roots of the matalow grass. There will then be an exeellent bisture, and a valuable mass of roots growing to make humus for the future crons.

## LMHROVING PERMANENG pastule.

A. permant pasture in this Province generally mems a held wanch camot be utilised as a grain, and mealow fiell. That is, it is stony, rocky, swaley, in the edge of the wood, and amongst logs and brush.
It is true that stock can plek grasa from amongst the stones, but as enen stone ocenples fust as much surface ugon which grass ourht to be growing the necessity of them belns pichexl of sis very evident.
The tirst thing to be done about the swales, is to get of the surface water. it is a fact, that stock do not reach math of the grass grown fin swales. It is equally true, that grasses of other. and better kinds, will not grow unth the surphas moisture is taken from the lamb. Ind even supposing that the stock is starved until it is glad to eat sisale grass: when it is eaten, it is not so nowishing as the tame grasses, as it tals not the qualities of grasses that abstract from the soll the minerals which are necessary to build up the ystem of an amimal. But immediately the surplus water is taken out of the soil. the air obtams ingress, the natural ancess of solubitisation goes on, (call it coltine If you will) the root abstracts. and the plant appropriates those quahities which are necessary for the buinding up of the amma, athl this comthumus process goes on, when all lise eondillons are fultilled.
lisually, the casiest way to take the water from a swale in a pasture, is to make a simple open diteh, with a piough, scraper, and shovels, wit! a surficlent widh at top to prevent the rige lemg broken in by the stock. It the dirt from thls, is scattered thimy. it will do no harm to the arass, but ather he a beuefit.
of course, maderdiathing with the is better than what 1 mopose, hut I an surgesting the best method, considerfirg the fact, that the majority of farm(is c:annot enter into the exponse enjecially whit masture. But very generalig, the mating of a smple surface Hinch, reclaims as much nond land, as the malinge an equal quantity of new ricared land. 'Ho illustrate : one swale, angleways across the entire width of my farm, part of it in permanent jas. ture, grew a forcst of willows, cattalls, and rushes, over part of wheh cattle never passed, and at man could only do so by stepping on the bumelies of the roots. About twenty-five years ago, I had a spade ditch made through it. This took the water from a suring near the upper end of the swale, and il two years after sowing with sects, I inad the best feed in the pasture, and it is the lest still, It is irregular in shape, on at stony, broken field, else it wouk make as nood a plece of meadow as there is on the farm.
Where are also, sometimes, patches of bush. and by the edge of the woods, erc., in whel there is grass, but for the want of sumlight it grows so tenderly
that the roots do not nustract the proPr mourtshment from the solf, nor can the follage derive from the atmosblere the molsture for the promotion of its growth, and it will be foumd that, like swale grass, stock do not relish grass grown la the shade.
The best month to cut Inush is In Tuls, lout it will always be fouml that the brst the to cut bushes in a pasture is When the axe is in hand, as the stoek will crop the shoots.
The enslest way to get rld of the brush, is, to lenve it where it is cut, the cattle will thim the leaves and durlng the next summer it will be dry and less than halr the lathom to plle it together. If it is swattering, the stock will get all the arass without its being plled at all. In carly sprlug, sow about equal quant llies of alsike, red top, and oreham grass on the swales, and low lying Hites, and on high land add one of the rescues and white clover, Insteal of :lsike. The judgment of the sower will come into play as to how much is reguired on the different parts of the bisture, some parts of it may reguine anly a small sprinkling of white clover the other grasses belug suffilently reiresented. And just here, in conclud. ing, let me emphasioe, that there is no basture feed, to make beef or butter; and of the best qualty. like white Cluver. (1)
As the lmprovement of pasture includes anything that can be done, not mily to limprove tse fed, but also anything that can be done to ameliorate the condition of the stock, and make the most of the feed,

## NCLIDDE SLIADE, AND FENCES

As to shade, even on some of otiserwise well manged farms, it is the usual method to allow trees and bushes to grow in pasture for the purpose of shade. Shale is required, but in that way, year after, year, a great ambunt of droppings are left there and around the fences, being entirely wasted. And womething ought to be done to make ase of the droppings to improve the masture. 'This can easily he done by a shed made with crotches, phanted in the ground, and upon these place poles :ind brush, open on three sldes. The South side being brushed up to prevent a draught, else the stock will not use it. Make it long, rather than wide, and on He poorest spot la the fleld. Skrane up the dromphss, and scatter aromad awny trom the shed. And change the situ:tion of the shed as required.

## JENCDS.

If there is any one thing outside of surd feal which tends to the improvement of the stock, and to at certain (xtent the improvement of the parture, it is a good fence. A herd of uneary cattle working towards a weak part of the fence, and a dog sending them back ont the scamper, does the pasture a great deal of harm, ami also certandy the c:atle. It is a well known fact, that :m mimal with a quiet, smiable, disposition unkes more milk or meat, on the s:ame amount of food, than one otherwise disposad.
And also, that for the time, bad fences will ruln the ambablity, and destroy the yuict of an otherwise tranquil herd.
There is nothing simpler, or more secture, than to stretch a maved wire on the top of the fence, between the bickets, several fuches alrove the fence, druting a staple into erery second or third pleket. This is better than an extrat
(1) A trilling dressing of hme will bring up white-clover almost any-where.-IEd.

