the properiy. I havo hoard your name mentivad by the farm hands in conversation. One sand you could not get men to remam with you. "Why," askel another, The roply was, that you expected too much worh for tow little monoy, and that you were continually blackguarding your men. By such a course, you gain nothing, amh losea great doal with good man. My plan is this. If a man does not do the work asoigned to him properly, I apeak to lam kindly, the the sme time giving him to understand that 1 ampoying him to work, and that it must le done, and that if he will not do at some person elso will. If he still perniste in not doing it, I at once tell hum hes acrices are no longer required. Do not stop to bandy worls with him. By doing so, you place yourself on an equal footing with him, and nothing pleases him better Above all, do not let the other men see that it gives you any annoyance. They will respect you the less, and your pratige al a farm manager is gone."
"That is all very well," continued neighbour $N$ ", "hat. if you had the trouble that I sometimes lizre, you rould not talle so favozably."
"I am surprised to hear you talk in that way," ] replied, "you that have your brother and nephew to assist you. I have no person to give mea helping hand on? mr more at the mercy of a poor class of men. IVery daywork I hare to pay swectly for, but withal I hope to fet see my poor farm desare a better ume.

## How He Raised Roots.

I rassed two arres of ruta-bagas as follons. I hat un the groand from my corn-stuble, and hated out trenth lisace of short barn-yard manure, epread it wer tuv wese
 dle of May, and m the mterval seraped the barn-yand, otten overy rain, and maxel the hug mante tean loads mome that, and had twenty-fire luads mure shurt manare, wat h
 and let at lie tull the lit of June ; phoughed agonn beam
deen. I now had a sonl fifteen inhes deep, with the deep. I now had a soll ifteen inches deep, with the manure well incorporated through the soil.
On the 5th day of June I Lack furrowed the promad. leaving room between the rows, so to speak, for a harse to Fralk. The rows or dralls stovi up, inout a foot lugh. then took a atick, an old broom-hanile, and mate a creasc
on the top of the drill about one and a half inches deep. On the top of the drill abuut one and a half inches deep. (there is no safety in sowing older seel) ; I then took one peck of wood ashes, sitted and put the three pmands od seed with the ashes, sifted the seed and anhes twe wr thre times so as to have them nell mixed ; then, with two boys and myself and a small tin pail, we took a pinch of the anhes and seed-about as large as a pinch of snuff-he treen the forefinger and thumb, and dropped each pmoch in the crease on the tup of the drill s.ay about whe mich. deep and six to eight inches apart. In each pinch thete were two to three seeds.
A small insect about the size of a flea, and resemblinn " very much, as at jumps libe the flea, does its worh oi muschef the first twenty-four hurs aiter the plants are ul For a remedy I took fresh hardwood charcoal pulvat ized fine, and sifted it through a timothy seed sieve, and put the sifted charcoal in a $\operatorname{tin}$ grater with a handle such as
painters use for shaking sand on fresh paint. I had three panters use for shaking sand on fresh paint. A had thiree a half; and just as soon as we could see the leaves emerg. ing through the ground, we went down the drill shaking or dusting the charcoal on the young plants, and the fleas few in every direction. This we repeated every momung, While the dew was on, till the second leaf was well de veloped, when the plant is out didanger. With two cornploughs every morning, while the dew was on, but never thile the dew was off, wo went through them and kept the ground raw. We then went to work thanning them morning for three weeks.
Wo harvested the two acres the middle of November, just before being frost.bound, and liave 1,G70 bushels, or, in other words, 100,200 pounds. Some of them weigh 20 pounds. We harvestedithem, leaving the tops on, anid cut them up, tops and all, with a cutting-machme; fed seventoen head of cattle on them all winter, and sold 100 bar rela of the smallest at $\$ 1.50$ per barrel. - Cur. New Ford Times.

Dasger ro Stock frov Girsest.-Most farmers know enough not to turn stock upun nenly-plastered grass-lamel, lat it is nut so gencrally kuown that Fatal ressites may follow suwh turnmg with A corresponient of the U. S. Depratment of agriculture mentions a case where some steck was turned upon a field on the same day on "hach it was pastaced, nul they all dicd
in a few hoturs. Tricre were no indications of "hoven"" in a few homes, Fincre were no indications of "hoven," the stack being in gond condition, and the sudiden death
was befieved to lre solcly the elfoct of the sulphate of lime.

## Burning Lime without a Kiln.

The bencficinl effects of lime upon all sorts of hand amd ropsare now admitted. The use of lime is now known to conduce geatly to the increase of the yield of cercal crops, giving strongth and brightness to the straw and fool to the plant. Adied to this, its property of attrieting to itself all the moisture that may be present in the arr renders land to which it has beon appled able to stand Irouth to a much groater extont than can lani not so treated. The only place whero lime can easily be misapplied is to land where water lio constantly. It should never he put on suoh land until the same has been thoroughly drained.
Livery farmer to whom limestono is accessiblo can burn his own lime, be he so mindod, without a kiln. A Pennsylranis farmer gives through the New York Tribune, the following description of the way to do it:-Jme may be burned without a kiln, by laying a foundation of blocks of stone, covered in anch a manner at to make draft pasanges to the centre of a round heap of say 12 feet in diamcter. The form of the foundiation is shown in fig. 1 , and the


Fig. 1.
 ha fillues ate filled with dry kindlang-wood, a layer of wal slax 3 inches thick spread over the foundation, and a luy or of limestone 12 inches thich placed upon the elach: then a layer of slack, then limestone, and so on alturuatuly, antil a heap is made like that shown in fig. 2. Thes is conered with leaves, sods, or coarse manure and litter 12
anches thick, and then with earth for 6 or 8 inclies. In the centro of the heap, as it is built up, a chmmey about a fout in diamoter is left, and this is filled with kindling wood and slack.
When all is ready, the top of the chimncy beng leit open, the fuelis kindled. When well on fire, the chimney is closed by throwing limestone in it until filled, and then covering it with leaves or litter and earth. The fire is made to burn gently by regulating the draft-holes, which should be closed with pieces of limestone covered with earth, and only one or two kept partially open to draw the tire to the shde where it is wanted. In short. the tire


Fis:
sheuht be managen exactly as that of a charcoal pit, except that a greater heat is needed. As the pit smks down, earth and leaves, or litter should be thrown over the crachs, leat the fire become too strong.
In about a week the lime will be burned, when the draft. holes may be closed and the heap left too cool. Then the earth is raked off, and the partly-burned stone from the outaide laid on one aide for another pit, and the lumo may be romoved. By this method forty losis of lime ( 1,000 bushels) may be burned with six loads of coal-slack and one cord of wood. The lime thus obtained should ant cost over 5 or 6 centes a bushel.

## Growing Rutabagas Cheaply

J II IIendryx of Van Buren Co, Mich, writes to tho Michigan Farmer, giving his way of raising nitabagas. The chaef feature of his plan is the cheapness with wheh he chaims it can be carricd out. He annually raises from onc to three thousand bushels, and no crop has yet cost him for labor more than three cents per bushel. He chouses 2. 'high, dry, sandy loam-ohd soil or hat licat, conn ground, or potato ground, whel had heren well ciltinatal
the year before. If io had nether, ho woalit take the nearest and most mellow piece ho conhl sul, t
"I cover such soil, "he goes on," with the farest and bext

hatrow andenltirate at intervals, no matterhow often, whea the ground is in condition, being careful not to disturb the mamure, up to the last of June or the Cth day of Julg. Caltivato very shallow, draw a smoother ovor the surface made of two slabs about cight feot long, with a two by four scantling giniked on the flat sides, nay two fect from oach end, so as to leave the slabs about eight or teninches apart. Have the encls of the scantling run over on one edge, asy 15 inches, for hitching the team. Thas will cruak the lumper and leave the grounil perfectly amooth and in good comdition for tho aced. Drill in the seed wath hand seed drill in stragght rows three feet apart. l'ut in plenty of seed, and as soon as up, thin out so that no two planter will sband together. When the plants are past all danger, this
to twelve or fifteen mehes Keep clean by shallow culti. to twelve or fifteen inches, Keep clean by shallow culti.
vatug until last tıme through, then cultivato deep, and vatugg until last time through, then cultivato deep, and
the work is done till harvost. If the ground is well fitted, three times through is anflicient. If you can sow the seot just before a rain, the plante will appear rery quick. It io well to watch the weather for such a chance, but don't jlant carlier or later than the time above mentioned.'

A Cheis Fratilizer.-A North Carolina correspondent says :-Many of our best planters use a compound cons.
pused of 60 pounds of sulphate of ammonia, 40 ponnde posed of 60 pounds of sulphate of ammonia, 40 ponnds
nitrate of soda, $\frac{1}{3}$ lushel of salt, , or0 pounde fine gronnd
bone, 250 pounds land plaster, 3 bushels of ashes, and 20 bone, 250 pounds land plaster, 3 bushels of athen, sud 20 bushels of stable-manure or rich earth. They apply the
above amount to 6 acres. Iabor in preparing included, it custs about $\$ 15$. It gives as good results as most of the commercial fertilizers costing s $501^{\text {cer ton }}$ t.

Water Consumed by as Acre of Wheat. -From the results of a ecries of olservations made in France it is cal. culated that a quantity of water equal to twelve inchos in depth upon the surface of an acre of ground passes throngh the leaves of a wheat crop of twenty five hushels, and is used $m$ the process of maturing the grain and straw This does not include the amount of wator which evaporates or drains from the soil; nor does it include any portion of the ranfall wheh occurs hetween harvest and seed time.Une third of the average raufall is requared for the transpration of the phant whem twenty-five bushels per acre is
obtained -and this tuelve inehes of rain, in weight, would amount to the enormons mass of of rain, in height wos to the aere.

Tunsing Cons,-Prof, Roberts, of the Cornell Uniceraty, made some experments in growing corn upon the Cullege farm last scason, the results of which are valuable. II phanted three plots of three-sixteenths of an acre each with corn, and thinned the hills in one loito three stalks, another to four stocks to a hill; the third was not thinned. The first plot yielded at the rate of 160 bushele, the second 125 lushels, and the third 106 bushels (of eara) te the acre. Mr lioherts states, as the result of many experimenta pricr to these, at the Iowa Agricultural College, that the heaviest crops of corn were made by growing three stalks to a hill, and that two stalks to a hill will produce more corn than five stalks. If every stalk produces an ear, and corn is planted three feet apart each way, there will be nearly 100 bushels of shelled grain per acre. To grow maximum cropu of corn then, it is only neceasary to grow one ear upon a stalk, and eari of such a size that a litudrod of them will make a bushel of grain.
A Wrinely about Corn-Plantino.-A correspondent of a western paper, who has for years been conducting experiments with corn, has arrived at a very valuable result. So far from replanting of corn boing
of hittle value, as is the common impreacion, he saju, it is of so much consequence he replants whether it is noeded or not-or rather, he plauts two or three weoks aftor the crop is planted a hill every fifteenth row each way. He say's: "If the weather becomes dry during the filling time, the ailk and taseels both become dry and dead. In this condition, if it should become soasonable, the silk roviven Then for want of pollen, the new silk is unable to fill the office for whinch it wran deaigned. The pollen from the 70 planted corn is then realy to supply the sulk, and the filling is completod." He says nearly all the abortive eare, 30
common in all corn crope, are caused by the want of pollen. and he has known ears to double their size in this second filling.

Forestalijing Cut-worms-Cut-wonns having done much damage last soeson and previouely, I was induced to kcop a record of my exporience with the pests. Two yeara 2 go I planted a piece of sod to corn. My corn came np even and looked very fine, but in three days there was scarcely a stalk left on the ground. I let it remain two weeks, then cultivated it, and planted it to beans. While pianting the beans I noticed the worms crawling away, and they attruched a prece of wheat adjomung, anil dontroyed a strip a roil wile along the elge. I camo to the conclusion that the worms must havo green food to sustain life. Lent year 1 tried four acros of mame sod, turning it over oarly before the grass had started much. I dragged it to bring up the roots and dry them. In a week I gave another Mruggng, wheh destroyed ot erythmi green. I then Thoy do but hitlo damago escept on newly turmed sod. Conn on such ground should be workei carly and often, and be lept cleam, so that worms and other insects haveno shelfer or fool. Gardens kept cleana aro lint little troubled with cut-vorms. Tino best reinedy is exponure and atarva-

