places of sapulture for their dead babics; a hole was cut with a tomahish into tho hullow, tho body was then jushod im, and the hide filled with sticks, which was tho only monument them art coulit supply By the eettler tho hollow trunlis are nften sawed into lengths of from two to four feet, which r c then liho barrels without heads, and are ascil as "ash leaches," dog kennels, hen and goose nests, and many other of the requirements of a backwools farm In the fnrest, the hollow basewood affords shelter to wild animals, such as the bear, lynx, racoon, fisher, porcupine, and squirrel Basswood ranges from the Middle states to urth of the Kaskatchewan plains.

Xanthoxylum Americanum, Prickly Ash,-A prickly. shrub, from two to six fect high, of ungight, dense and graceful habit. The tlowers, whirh are yellowish green, appear with the leaves in spring This is one of our native shrubs, which might do well as a hedge; it grows very dease, the stems are rigid and tough; it holds the ground well, is not eaten by inserts nor domestic animals, stands cutting well, and the extreme sprays are not injured by the hardest frost. A spritnous mfusion of the bark of puckly ash has been used as a stimulant. as also the fresh juce of the ront : a deenction of the bark makes an excellent wash for foul ulecis. Conmon in Southern and Middle Ontaro.

## (To be continucd.)

## Cross-Drihing Grain.

A Cirmer in the nerghboring town of Henrietia is maik mg an mvoluntary but none the less intercsting experiment this season. In drilling his barley the first week in May. by mistake the orfices through whinh the gram was distributed were made the samo as for drilling wheat, thus sowing only a tutte nure than a bushel per acre instead of 2 or 2$\}$ bushels. Several rounds were drilled before the mistake was notreed, and instead of going back and resowing the than portuon, the field was drilled at the rato of one bushel peracre, and then cross-dralled with the same amount of seed. The result is a great success. A hittic superphosphate was drilled in the first day, and a heavy rain coming a it w they atter, the barky was soon up and growing vigoruasly Nus, June 21at, it is heading, and a better stand of barley I never siw. The ground is entirely fille.l, and yet every plant seens to have plenty of room. The barley is of the 6 -rowed varety, and pany of the heads are set fin seventy to ninety grans. The only danger is that the rank grow th may cause the straw to fall and not fill wall. Barring this, the chance is good for the largest yeld of barley on record. Where two or two and a half bushels of seed aredrilled in one drill mark, the plants erewl cath ther su as tu stunt there growth. This may', in alwat ige wa wry ruch land, thuagh of that I am doultial, but for poor soil cross-drilling with one-half the usual amount of seed cauh way must be mach proferahle Li, a int rald lad I shavid be anched to try cross-drilling, lut using ashes or German potash salts to stiffen the etrau no arry pwor land some well tested commernial mnume th. nh. 1 , if cath way, ganag the corp a dnubir irrseing With 150 Lts of superphosphate each way, at s4, prr ton, the cost of manuring a crop would still be less than $\$ 7$ per acre. Of course where epring graine are cross drilled, it is nut nurth while to sow grass seed. Eerrything cxup,t the most rampant weeds will be smothered by the laxariant growth of gran.
Mr Gon B Turry of Mentectin has fur years practised ing a good crop He sows nno hnshel per acre each way. Some other good farmers drag therr wheat fields across the drills, and thus displaves some of the grains and leaves them farther aprit They first tried dragging thear druled wheat from haviny the stulinle ratch in the drill tube and leave the grain unenverel To their surprise this dragged wheat stood the wroter better and gave a better yeld than that on lanil in letter tilth. They now crossArag wheat men on summer falluws, but I think cross. lrilling is every way preferable, an it leaves the seed inore evenly distrihuted
It is a mistake to suppere that winter grain is always better to be left in the furravy of a drull tube In cold,
dry wintere this rin y n f earth on either sule is a protec. dry wintera this ridyn nf earth on either sile is a protec-
tion ; but on limery sonle in a wre winter, like the last wiater was, water momine in the Irll furrous, amd frecang and tha 1 i 1 "pedily kill the plant In such winters it as
 the wheat is prepared for enther contingency. Half 4 in
the furrorss and half on the rudge. If the soll is rich and two bushels are sown per acre, elther halt tho sced 25 enough for a good crup. By cross drilug wiuter grain, especially and are prepared to stand the winter. (iood furmers are growing more and more curcful to get ther crops in the ground in the lest way, and either for spring or winter grain, 1 think the extra labor' in' cross-(rilling the sced will bo as well paid as any labor given in cultivating the crop. In the barley field first mentioned, 1 have littlo
doubt that on pix acres thero will be at least fifty bushele mose batley than there would have been if all the seed had been sown one way This is protty good pay for the abor of man and team with drill, for comething less than a day.-Cor. Cuuntry Gentleman.

## Digging Ditches Economically.

A ditch is an open chamnel for conducting rater, while a drain consists of a subterrancous passago for water. When ditches are excavated with hand tools only, the work s laborious and the cost more erpirnsive than when teams and machinery can be employel to perform a part of the work. Many years ago, when wo were in the possession of a farm, much of which required draming, wo performed a large portion of this irksome iruigery by the aid of the team and the common plondh. Setting stakes fur the lane of the drain, the plough was run along this line, turnmg a furrow, which was then thrown back out of the way by hand with shovels. The plough was then put through back again down the drain, the near horse walking in the furrow; this loosened dirt was also thrown back. We found, however, that this opened the ditch rather too 'narrow, and in cutting one suce, proceeling in the same wey, allowed the off horse to walk back in the cleared furrow, which, if the plough is set for a narrow furrow in common ploughang, will cut about the right wath. The plonghing and clearing was continued (the near horse in the furrow) through three tumes more, when we found we could go no deeprer because the double whiffetree dragged on the ground.
The clovis was then rased above the top of the beam. and one horse put on, which by walking th the ditch draw the plough up and down once more, thus loosening the hard sonl abont one foot in depti. This work was done in less than half a day, and saved at least two-thinds the labor had it been dug by hand Our ground is fall of small stoue, mahing the use of a prek requisite, and increasing the worh of ditching to some extent above that of a simply clayey soll. After this experiment a long double whifletree was employed (any six feet in length), with a horse at each end. Then the subsonl plough was drawn by a chain three or four fect long, extendang from the whimetree to the plough. With a subsoll plough the earth could be broken up to tho depth of three feet. When laying small drain tile in a ditch, it is a nice job to get a level surface among the stone and over the occasional soft spots of sandy clay found along the bottom. When laying tile of any sizo we first place them within reach along the bank, and then, facing the head of the dram, stand upon each one, and with one foot stamp, it down until it will not rock or tip etther way. On ground free from stones the nurk is simple aul easy, but here pe often come to a spot where a stone of some size had to be remored to get a level bottom. Hero the thle will nothe firm without the hole is filled up with small stone and a liat one placed under the end of this tile, and the next one just low enuigh to loecp the waterwourse level. When the tile lies firm undcr our feet, as we stand upon at, we proceed to the next, and nut before. In the sandy bottom soft spots larger flat stones are illed in to kecp the conrse of tile to ite proper place, so that they map not sink into the mud and thus become obstructed. When theme soft sandy places are over two fect in length we lay in
sound board to keep the tales in the proper place.

As a covering for tile before putting on the dirt we have used straw, sinall stone and pieces of sod;'but it is only the larger cracks which noed anything, and sods are genpurposc. After shuvelhing in a fow inches of dirt, and trealing it down, the remander misy be filled in by a plough, with a long whiffetree, to allow one horse to walk cach side of the dram. Ur some use one horse to a plough and require the anmal to travel over the tile. But this hainlities to displacement of the tile and crushing tender
ones. Tho first dirt should be shovelled in the diteln by ones. Tho first dirt shiould be shovelled in the ditela by a man who will bo exceedungly carcful to avoid breaking , tile by aly lawd, the drain will reman serviceable for afoet to


## Clawson Wheat.

Tho Clawson Wheat has becomo very popular, eays a rriter to the Boston Cullualur, as at has proved to bo a very large yielder, and standing the winter better than any other varnety. I had 44 bushels against 25 of the Dye and 26 of the Hed Chaff White Wheat, with the samo chance One of my neighbuts had 52 bushels per acre. Allen, one of our large farmors, had 40 acres which averaged him 40 busheln per acre, and he considers it the most profitable wheat to grow, as it is very harly and a large yielder There is a large demand for at wherever it. is known. The Hon. Geo. Geddes, of Syracuse, N. Y.,. writes of the Clawson Wheat to the N. Y. Tribune as follous. 'One of my friends harvestod 25 bushels of this. wheat to the acre, and that, too, in the same tioh and under the same conilitions that gave of the Diehl and of the Treadwell only 20 bushels to the acro. Another of my neighbours had a little over 30 bushels, against less than 20 of the Mediterrancan. These are men who aro willitg to mahe exact expenments, and test a new thang besido an old one, and learn whether tho new 18 any better than
the ohl, and they have sold their entiro crops. I know of the ohl, and they have sold their entire cruys. I know of
one man who, two years ago, prochred ono bushel of this varicty of wheat at a great cost, as seed, some of his friends thought, but thas sagele loushel of wheat has prolnced in increased zied and in ucratased price, more than S200 protit."

## Improvement of Grass Lands.

This has been a great scason for grass, and the coming autnmn will be most favorable for sowing the seeds, es. pecially where it is needed, in the bare and thin spots in our meadows and pastures. If the grass sown with the whent or oats is not thick enough, we may now sow the seeds upon tho stubble, and follow with a heary roller or light harrow. If this is attenied to at once, the moisture in the ground will secure for us a good "catch." If a little well-rotted farm-yard manure is spreal upon these thin places before the seeds are sown, we shall find it the most profitable use we can possibly make of such manure ; and if the ground is thin, such an application is really cssential, as, without it, we shall find it almost impossible to produce a good sod. Farmers who cut the second crop of clover for seed, will fird that the most protitable uso they can mako of thear clover straw and chafl whll be to spreal them upon these thun places in pastures and mesadows, or uren their fall wheat, where they have sown grass seeds. Fis application may be made at any time aiter the clover is threshed; and it will be foumd as benc-
fical the wheat as in thickening up the grass. fictal to the wheat as in thekening up the grass.
We iniod frequently urged the great importance
We iniod frequently urged the great importance of good pastures and meadows-that whle, in case of a gooi theck stand of grass and clover, we have the must satisfactory profits that can be derived from the soil, thin pastures and Inght meadows are most especially unprofitable, because We are bound to have with them than cattle, thin sheep, 'hin hones, and, ultimately, thin lands.' We, therefore, again urge upon our readers not to neglect the present most favornble opportunity to get their grass lands in order-in the highest and best. productive condition. Don't be afraid of wasting the seeds-sow enough-sow in every spot where grass is needed, and where the "stand" is not satibfactory, and ycu shall havo your reward. On the young grass and clover, in wheat or oats stubble, 100 lbs. of plaster, (gypsimm) to the acre may be sown, with great wanthese and profit, where a stronger growth is desirable. This is the cheapest fertiliser that can be used, and its application ahould not be neglected where the land is thin, and the grass requires stimulating food.-National Live Slock Journar.

## Sowing Olover on Grass.

Wishing to fertilize the undersoil of a pieco of sod without breaking it up, I triedithe experiment of sowing clover on it. The sod was a good one, covered with a good coat of aftermath in the fall. I gare it a thrick sceding, and rolled it down well, as early as the ground would permit. The clover soon came up and began to grow; but the grass threatened to smother it. I now passed the mower over it, cutting it close to give the clover a chanco; and to aid it farther, I sowed plaster. I fcared that the vigorous grass (timothy and other native grasses, the sod being an ald onc) would be too much for the young clover. But it grew and thackened, and under the influence of the where the the advantage of the grass, except on oue place where the grass was unusually thick and vigorous, After the plat, twenty four by thirty fret, had oltanned a few weeks' growth, it was mowed again, the clover deciledly predominatug, except on the part mentroned. Hero it secmed the clover would have to succumb, but it still redecidedly at the third cutting, the rest of the piece fur

