Fradaully drain. so that it rams over and entirely through the mass. From six monthes to one year may be wecessury fully to incorporate the materiats, but whon read. 1 wit of thas mamer, mined with comman barn yard manare, will coutain more rich regetable sabsounce than the satme weiblit of orilinary gaunu. Its aficls mag hot le su criblentas the gaane ia the first crop. hat its action will he increasingly numife tedia edocoding crips. is a general rule, sanall graitus, buh as wheat, rye, vato and barley, require a less concentrath mature than potatues and g.arden vegetablen generally; sou can therefore vary by mixing with a light manure.

## How to Make Shingles.

Suncifes, the must cummua materal used for roofmog in this country, are yearly becoming searcer and costlier. The greater cost of habour, and the expense of luag tranportition fiom the nuw ramole furests where the nomber from what they wre made in large quantities abounds, are the chief consey of these enhamed prices. One of the heabicot items in buiding at the present time, is the revfing materi.a, and mang an outbuidang is permated to reman for jears wath at leahy roof, to the detriment of the frame and thoors, and frumently to the damage by wat of crops stored therein. because the owner has not the means to spare from other uses, or shrinks from incurring the expense necessary to procure a now covering let these same farmers may hare in their furest, or can procure at small cumparative cost of their neighoours, a sufieient amount of suitable tumber to mahe all the shangles they reyure. A rery fiow trees -sometimes a single one, or two at most-will furnish enough roofing for an ordinary barn or shed. And if one hnurs how, the shingles may be made by the farmer and his min in the chop during hat weather in the winter and epring onl be will unt forl the expense
The iaricties of timber adaptul to mahing shingles are fers. I wood is reguired that will split easy and true, and one also that when exposed to the weather on thr building will not warp from its place or "curl" up. The durability of the timber is a secondary consideratiun - shingles vear ont more than they rot-and the varieties which would be least subject to these clanges, might, for good reasons, not be at all suitable for rootlng purposes. Pine is doubtless the best, but hemlock, cedar and chestnut are excellent. The treesshould not have passeditheir prime when out, but should ber vigarons in growith and sound at the heart, so that fle wod will not be "brash"
The first work to be done when we commence shinglemaking is to get ont the holls Sawthetrunk of the tree with a cross-cut saw intn sections, each one of the length you inteat to make the shingles. Sixteen inclars is snficint lengtr for any casy splitting wood, and if it be tough or "brashy," twelve will do. The shorter the shingle, the less space you can lay to the weather, and the more time and nails it will take to make them into a roor These sections of the trunk may then be set on end and split into bolts.

a section yor mativo smigale nolts.
The numbered lines in the cugraving show the place and urder in which the section ehould bo split. No. 1 divides it through the centre, No. 2 quarters it; No. 3 tahes off the heart blocli, and No. 1 finishes the shingle loolts. If the tree is large, howerer, so
that llese bolts are wath thata it is practicable to make the slingles, they can bo further subdirided. The splitting may be done rapidly with the axe and a light manl, draming the axe first carcfully nlong the longest lines, and tapping it lightly with the manl, until the block is " cheched," when a blur or two un the axe placed in the centre, will open it as desired The bark should next be removed from the bolts, and they should be piled under cover so that the sun and wind will not "season chech" them.
Haviag the bolts in the slop, next proceed to split them into rough shingles with the mallet and froe.


## wilene the hoit shocid me silit.

The engraving stows the proper way of splattong a bolt. liirst, split it at the line, $A$; thes should take off a piece thick enough for four shiagles. Dext divide thas piece through the centre as shown b,g the line $B$; the preces are then each wate enough fur two shangles. These are spitt through the mudule, which finishes them. If you undertake to eplit of each shnngle separately from the sule of the bolt, they will almost invariably "run out," and the timber be wasted.
A large-sized sharing-knife, and a shaving horse or bench. are neoessary to shate and complete the shingles.


The froe is formed of a heary steel blade, eight or ton inchea long, and tro wide, having a dull cdge, and a landle a foot long, and projecting from one end of the blade at right angles with it. When the blade is driven into the bolt and partially splits it, the handle can be forced orer to one side with the hand,
or by a blow from the mallet, and the lererage force thus cxerted, splits of the shingle. In this operation, skill and practice in the art come most into use If the check or split runs out, the shingle will be too short, and therefore worthless, and the timber wasted. The operator must clange his blocl; end for end. as circumstances require, and work carefully. Threeeighths of an inch is the proper thickness for the shingles.


## ghayla benci and smife.

Shave the but-end ot the shingle first; this will require but a stroke or two, as it is already of the desired thickness if properly split. Next edge the slingle on the right or Iefl hand side, as most convenient, taking off. when you mect it. all of the sap rood Change rads of the shingle, share hoth sides, thinning it gradually from the butend to the top, straighten the other edge, and it is finished. 1 smart workman will split out and share one thousand in a day.

The shingles should bo packed aray in tiers, lapping them as in the common bunches which we see for sale, and plank put on the top of the pile and weightcel down, so as to keep them in proper shape until seasoned.-ERural New Yorker.

## On Saving Mauure.

A correspondent of the Agriculural Gazefte speaks thas of the three ways in which alone manure is per fectly saved, viz. :-
lat. The plan now geneml over the better-farmed counties, of pluaghing in fresh manure on ths autumn stabble, in papparation for the succecding green crup. 2nd. The plan of liquefying the whole exisio fur distribation by steam power and iron pipage orer the land. Srd. The plan explained by Iord Kinnaird of having the manure made in covered court-yards. Ho testifics to the excellence of the third plan. Tho droppings and soiled litter of stall-fed cathe, nnd tho saute from the work-horse stable, are daily thrown into a walled and covered pit, care being taken that they are intermixed. A dozen feeding pigs aro kept in the pit; any looso litter there may be found lying about tugether with ruad scrupings and odds and ends of animal and regetable refuse, are thrown in ; the pigs mix and incorporate the wholo well together. lirom time to time liquid from the manure-tank is pumped in ; and thus we have generally a deposit of a cumsuderable quantity of well-made manure at hand, to supplement the dung heaps when they are xbausted.
These (the dung heaps) are managed on a ssstem whelt is effeacious. The manure is carted out as the buate becume full, and thrown out of the carts into a heap of 5 feet in height by 12 feet broad. As we advance in this building we follow with a cover to the tops and sides of clayey mould. This cover is at first about 6 inches thick. The still open side, to which weare adding, admits a small degree of atmosplieric action, which induces a gentle heat. When mospliaric action, Which indaces a gente heat when
the has gone on for three or four days, we add three to six inches more olay or soil, over which wo pour dilute urine. This keeps fermentation going on in the heap, the gases from which have to permeate the the clay ere they can reach the atmosphere, and the now well-known absorbtion of ammonia by aluminal earth, presentz any waste. Indeed, with manure taken from covered boxes, there will not be any escape of vapour from the clagey covering till the ditute urine is plentifully supplied; cren with the manure made in courts exposed to rain, there will be an escapo of nothing but of watery rapour; a less which is a gain, as there is less' weight afterwards to cart on the ground.
In ten days niter tho heap has been made, it will, if it has been properls attended to as above, be fit for using in bean or potato drills, veing eoft and nnctuous; it is cooked in its own steam. Should it not be required for a month or longer, all that is necessary is to give it a coat of sir inclues more clay or moild, and itstands ready to be cut up when wanted. I find this system to work exceedingly well. I am satisfied that from seventy loads of manure, carted out nad covered with thirly loals of clay, I have a larger store of fertilizing elements than I should hare from one hundred loads of similar manure carted out and trenched up in the old mode of ferment.
This cunserfatire power of clayey loam over the fugitire products of the rotting process in the dung heap, is a point of great agricultural importance ; and Wherever there is any collection of focal matter which it is desired at onco to save and disinfect, this is the best material to mix with it for the purpose.

Hay and Cors Shmaxage by Dryng. - The Genesec Firmer says :-The loss upon bay weighed July 20 th, when cured enough to put in the barn, and again February $20 t h$ las been ascertained to be 275 per cent. So that hay at $\$ 5$ a ton in the field, is equal to $\$ 20$ and upward when weighed from tha mow in winter. The weight of cols in a bushel of corn in Norember, ascertained to be 19 lbs , Was only 7 l lbs.
in May. The cost of grinding a bushel dry cobin May: The cost of grinding a bushel dry cobconnting handing, huuling, and miller's charge-is about 1c. a lb. Is the meal worth the mony? This is a question long debated, and the general decision has been in the affirmatire.
Seedno Wrmott Gram.-I saw in ono of the late Furmers an arlicle on seeding janil without sowing grain. I will tell you what I did seren gears ago last f.ull. Aftur I dug the potatoes-in October I think it was I smoothed the surface over with my hoe on a fers rods of ground, drew the tops away, sowed timothy secd and raked it in. It came up in the fall, and the next summer I cut a large swath from it I could see that it was better than where I had stocked with wheat, for a number of years. In tho fall of 18041 stocked another pieco down, bhich also did well, and last fall I sowed a small piece whero I had taken tho oats off, a part of which I ploughed und a part did not. It was on a loamy soil. Next spring I intend to sow a pieco to timothy and clorer, whero I had corn last aummer.-Neio England Iurmer.

