## To provent tho Girding of Trees by Mice in Winter.

We find the followarg paper anong the Memoirs of the Mrasachusetts Agricultural Eociety. published in 1810 :-

## To the Hun. johis Lowell, Esq.

Sir,-The sery great destruction of fruit trees, occasioned by mico and mules, during the winters of the two or three last years, has made it an object of the utmost mimportance to discover the best means of preventmg the mischuef, or to invent a remedy for the evil, after it has taken place. So prodigrously have these pernicious vermin multplied of late, in some places, as to threaten the destruction ilot only of fruit trees, but also of forest trees, and the grass of our beest nowing fields. During the winter of 1808 and 1800 , they were known in some cases to attark a whole copse of small trees, leaving scarcely one ungirdled; and in many mowtag fields, to gutter almost the whole surface of the ground, for acres together, with their burrows and paths. Inscead of molesting muly the small trees in our orchards, as usual, they have of late completely girdled apple trees, in some instances, of nearly thrce feet in eircuinference, aad destroyed them.
As this miseher is seldom done but in the severity of winter, when these vermm are driven to the roots of the trees for shelier, and are deprived of their ordinary subsistence ly the frost and snow, the most effectual way to prevent their mujury is, in the month of Novemier, just before the winter sets ul, to clear away all the rubbish and furze from aroumd the roots of young trees, leaving the ground bare, and then to put a coat of dry ashes all around. The roots of the tree then affording them no shelter above ground, and they having a natural aversion to burrowng in ashes, they will be driven for shelter to some other place, and your trees will thereby, in a great measure, be preserved from ther mischef. The ashes also will abundanily conpensate you for the trouble and expenss, rausing your trees the year following to thrive and flourish exceedingly.
Another method of snme use is, in the early part of winter, after the first si ww , to Ehovel snow around the roots of the trees, and then tread it down hari, hy which it will freeze, and become sold hike kee, through which they cammot penetrate. But his methool is ly no means sure, as they will freguently burrow under the ,re, ant some cimes imure the roots underneath, and in the least thaw pass up and myure the trep.
But after the injury hes bien dnes, and your tres has bèen coinpletrely girdled, and all the bark eaten off rumud the tren to the hard-wood. 1 linow of but one remedy to pre. serve the tree alve, altbough many e eperiments have been tried. A tree girded in this manner, having no mpins of conveying the sap and nourshinent frin the roos up into the body and branchow above, must wither and die. The usual way is, anong farmers in such cases, to dig up the trees and set out new ones. Sometimes they are cut off and headad down below the place eaten, and new wood in length of tume, will shoor out and make a second tree.
But it occurred to me thit if any artificial way could be discovered to renew or make a conmunication of the cli.culating vessels of the lower sectuns ot uic bart and sap eaten off, wth the upper, so as to convey up the juices and nouribhucht frum the roots
into the branches, the trec murght be mate to into the branches,
hive and flourtsh.
Accordingly choosing a fine urifty tree about twelve inches in carcuminererce, as econ as the suow was of the ground in the apring, whuch had been completely girded by
the mice, and all tho bark eaten off all round to the hard-wood, more than four inches wide, liko a belt ; I took a sharp knifo and cenend the edges of tho lower and upper circlo of the barle eaten off; then took a acion from the treo, about the bigness of a pipe stem, and an inch longer at cach end than the space where the bark had been caten off around the troe, spht the scion longthwise, and shaved the spit side down, so as to fit to the body of the tree, being very careful not to disturb tho bark of the scion ; then cutting away the lower circle untul it camo to fresn bark, mado a perpendicular slit one unch down towards the reut of the tree, then crossed thes at the bottom with a horizontal slit, half an inch on each sude, as in budding; then gently peeled up the bark on each side,
and fitted the lower end of the scion in. and fitted the lower end of the scion in, ted the upper end of the scion into the fitted the upper end of the scion into the upper
circle of the bark eaten off, in all respects as 1 had done the lower. In this manner 1 placed six scions all round the body of the tree; then covered it over an inch or more thick with Forsaith's compostion, and hoed the dirt all round the roots of the tree to keep it moist.
Tho tree did not put cut its leaves so soon nor so vigorously at first, as the other trees; but by the middle of summer it fourished very well, and in the fall there was no apparest difference between it and the surrounding trees. It bore some fruit the last year, and is now covered with young frut and appears as healthy and flourishing as any tree in the garden.
In the fall of the year after this operation, I opened the roots of this tree, and tore amay the plaster, and to my suryrise, I found that four of the six scions had taken, and grown to the size of nearly an inch in diameter.The other two did not take, hy which meers the tree is a little gat on one sille. I lately opened the tree again, and have fouul that it will soon be covered with bark agann, except the side where the scions did nut take.
This experiment I have kuown to have been tried several times since with equal success. Mr. Isaac Davis, of Coxlury, a very intelligent and rospectable farmer, in
the spring of the year 1814 , treate- in the the spring of the year i8w, treatel in the same manner a larye apple-tree, of more
than twenty-seren inches in circunference, which had bsen eaten of all round for a space of more than four inches. The tree flourished, and bore fauit the last year, and is now colered with a great abuudance of fruit; and is extremely thrifty, having recently examined it for the purpooe of ascertainulg its present state. Mr. Davis made use of common clay mortar in his experiment, instead of Forsaith's composition, which he thiulk answer as good a purpose.
Knowing, sir, the interest you feel in every thing that tends to improvement in arriculture and husbandry, 1 have taken the liberty to address to you the foregoing experiments and observations, which, if in your opinon, should be deemed of public utility, you are requested to communicate in any manner you think most useful to society.
I am, with the highest respect,
Your most obdt and humble ser'vt,
LUTHER RICHARDSON.
Roxbury, Mass, June 10, 1810.
Live for Treses.-In planting and transplanting trees, the English pur a maall quantity of line in the hole, , mixed and incorporated wiih the mould. The effect is to give the trees a vigorous and healliy start.
to difee away rats.
Tar, or brodlime, laid in their haunts, will stick to theirffur, and cause tbeir departure. If a living rit be caught, and well rubbed or brushed over with tar and train oil, and afterwards put to cecape in the holes of othere,

## Management of ropek.

In Europe, the Russuan pork bears a high price; and its quality is suppreed to bo owing to the piekle in which it is preservel. This is called the "Euprtess o. Russin's Brine," and is prepared as follows: Eoil in. gether over a gentle fire six pounds of common salt, (that in must coumuon l.so in Russia is rock salt), two pounds of powdered loaf sugar, three ounces of sal petre, and tirre gallons of eqring or p.re waier. Skimi it while boiling, and when qute culd, jower !t over the ineat, every part of 1 . hach must be covered with the brme. Simall pork will te sufficiently cured ha tuor or the dnys; hams intended tor dryng, mitwo weeks, unlers they are very large. This peckle may be used agan and agam, if it be fresh boiled up with a small addition to the mgredients.Before putting the meat into the brine, wash it in water, press out the blevd, and wipe it clean.
Prekling tubs should be larger at the bottom than at top, by which means when well packed, the pork will retam ats place unthl the last layer is exhausted. When the pork is cool, it may be cut ur, the hams and shoulders for bacon, and the rennamder saited. Cover the bottom of the tub or barrel with ruck salt, and on it phace a layer of meat, and so on till the tub is filled. Uso the salt liberally, and fill the barrel with strong brine, boiled and skimmed, and then cooled. The fullow ing necthod of preparmg hams and shoulders is a good one; as many who have tried it in sulbstance can testufy:
To ascertain the probable weight of tho meat to te prepared, "te tha number of the hams and slioulders. THen pack them with rock salt in a suitable tub or cask, being careful not to lay the flat sides in the large pieces upon each other, and fillug the iutervals with hiocks, jowls, \&e. To crery 30016 b. of meat, then take 20 lbs . of ruch salt, or Onondaga coarse salt, 1 lb or alt-petre, and 14 lbs. of brown sugar, us lici a gallon of good molasses, and as much water, (pure spring water is the best), at will cover the meat; put the whole in a clean vessel, boil and skim ; then set it aside to cool, and pour it on the meat till the whole is covered somo thres or four inches. Hams weighing from 12 to 15 lis. must lic in the pich le about five weeks; fiom 15 to 25 lbs . six weeks ; from 25 to 45 llbs. seven weeks. On taking them out, soak then in cold water two or threo hours to remove uls surface salt ; then wipe and dry then. It is a good plan in cutting up to talie of the feet and hocks with a saw instead of an axe, as it leaves a smooth surface, and no fractures for the lodgment of the fly. Some make only six pieces of a trimmed hog for salting; but it is more convefient then intended for domestic use, to have the side pork, as it is called, cut in small picces.
The goodness of hams and shoulders and their preservation, depends greatly on their smoking as well as salting. Owing to some misconstruction of the smoke-house, to the surface of the meat not being properly freed from the saline matter, or other causes, it not unfrequently happens that during the process of smoking, the meat is constantly moist, and imbibes a pyrolignerous acid taste and smell, destructive of its good qualities. The requisites of a smoke-house are, that it should be perfectly dry; not warmed by the fire that makes the smoke; so far from the fire that any vapour thrown off in the emole may be condensed before reachung the meat; so close as to exclude all flies, mice, \&co, and yet capable of ventilation and escape of smoke. The Westphalian hams are the most celebrated in Europe, principally cured at and exported from Hamburgh. The smoking of these is perfoumed in extensive chambers in the upper stories of high build-
cinge, some of for or fire tories ; and the

