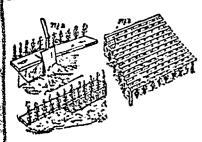
HOW TO RAISE EVERGREENS

The best possible time to plant ever-greens is in the spring when the ground has become warm and mellow, usually about corn planting time. Great care



batc

7. R

ON

av.

E STORY STORY

hrier Sept Kan

should be taken to have the ground in proper condition for planting, mellow soil that has been cultivated to some heed crop will do. Spade it deep, rake it fine and level, lay out beds 4 ft wide, drawing a garden line along each side, lay a board across the end of bed and cut a trench, as shown in the lower left-hand figure. Place the plants in the trench, filling in moist soil, and tramp firm.

Lay a board down and cut the next

the trench, filling in moist soil, and tramp firm.

Lay a board down and cut the next trench. Put in the next row the same as the previous one and proceed with the planting, and after shading the bed will appear as in the right-hand figure. If one, two or three-year seedlings are planted, they should be shaded as shown. While hoeing and weeding the plants, the shade may either be removed from the bed or raised. One, two and three-year evergreen seedlings should be planted 2 to 6 in apart in the row, according to age and size. In planting it is well to use a board from at o 10 in wide.

Keep free from weeds, the ground mellow, and the growth they will make will be surprising. After they have had yrs growth, plant where you want the shelter, have the soil in good, mellow condition, just as you would corn, her have them thoroughly and don't let a weed grow near them. The frames for shade are made of strips in? in and lath naited to them I in apart. If transplanted plants are used, the shading is not needed, a though a little straw or hay should be sprinkled over the tops to ishade them for a few days.—[D. Hill, Kane Co, Ill.

## TAPPING WORM-EATEN MAPLES

Whether or not to tap will depend upon circumstances of which the sugar maker is the best judge. Sugar is the reserve food of the tree stored last sea-

maker is the best judge. Sugar is the reserve food of the tree stored last reason to feed buds this coming spring. The amount of sugar taken from an ordinary maple tree by tapping is from 2 to 4 per cent of its total sugar content. This is so small a fraction as usually to cause no appreciable loss to the tree. But if the tree has been so badly eaten by worms during the past seasons as to have its life endangered it might be undesirable to make even this small drain, which would somewhat decrease the chances of life for the tree.

All the stored sugar was manufactured in the green leaves last season. If those leaves were eaten by worms there would be proportionately less sugar in the sap, and in case the damage to the foliage was really serious the sap will be of so low a quality as regards sugar content that it will not ray to tap the trees in any case. On, the other hand, if there is enough sugar present to make tapping profitable then there is enough so that the removal of the 2 to 4 per cent will not appreciably affect the tree. The safest way for one who is in doubt is to determine the quality of sap from his trees, selecting several representative trees and taking samples from these before tapping all. If the sap is of good quality be may safely tap. If, however, it is of poor quanty—that is, deficient in sugar—it will be both unsafe and unproblable to tap.—[Vt Exp Sta.

the upper neute angle of the triangle. Of course if the tree leans, the measuring apparatus must be given the same inclination.—[A. Faul, Denver, Mo.

Trees Properly Pruned, in which small and shaded growth in interior of top is cut away, are not so apt to be attacked by insect pests as those left to themselves. Shaded branches, like shaddless to be a transfer to the state of the state o themselves. Shaded branches, like shaded plants, being unable to perform assimilative processes perfectly, are, by the enfectied conditions thereby entailed, apt to become harboring places, from which armies of scales will sally forth whenever the physiological condition of the tree is for any reason deranged. For similar reasons, groves in which trees are adequately spaced are more immune than those in which they are crowded. It is almost impossible to lay too much stress upon the necessity for free circulation of air and the admission of sunlight.—[Prof H. A. Gossard, Fla Exper Sta.

The bulk of Wis and Mich lumber lands are owned by lumber kings. Economy in production is being practiced as nevel before. A few years ago a tree was not cut without it made one big or two smaller logs, now anything from 4 in up is used. Pine and hemlock are going fast and cedar is now being cut in large quantities. Gang saws cutting from 5 to 20 boards from a log at one time do rapid work. Band saws on wheels 8 to 10 ft in diameter are now in quite general use.

Yale university, New Haven, Ct, is to have a school of forestry. H. S. Graves, Yale '92, is dean. A large tract of land in Pike Co, Fa, will be used for practical demonstration.

## The Handy Mechanic.

## LAYING A DRAIN.

First of all, an ample outlet must be assured. Underdrains work wonders on wet land even if laid on a level, but same fall toward the outlet is to be desired if possible. A main drain must be located into which the laterals must

some fall toward the outlet is to be desired if possible. A main drain must be located into which the laterals must empty, where the is used. A 4-in main with 1½ to 2-in laterals will do excellent work, but a large volume of water might be better accommedated with a larger main. If there is no running brock on the land which must remain there and there is an inclination of the land in one direction the work can very easily be laid out as follows:

It is undesirable to have laterals empty direct into an open ditch or brook. If labor is cheap and tile high it will be economy to have laterals 4 ft deep and 40 ft apart, but if the conditions are reversed then laterals may be 3 ft deep and 30 ft apart. In digring drains the top or coarse material must be thrown on one side and the finer or lower stratum on the other. This latter material must always be put back in the drain first and never the coarse, which must be put on top. If soft places are found in the digging, these must be either dug out entire to hard bottom and some firm material as gravel filled in to maintain the proper grade and fall, or pieces of sharpened plank driven into the soft bottom at intervals and a board laid in the bottom on which the tile can be laid.

Begin to dig at the outlet and either dig the whole main first, putting in a length of lateral at intervals where these side drains will enter, taking care to stand up a narrow piece of board which will keep dirt from going into the drain and mark the exact spot where later work will begin, or complete the main only as far as where the improvement across the whole field. Use tile with collars every time. An excellent and serviceable drain, especially where there is much wet, is made by natling together 16-ft lengths of 6-in spruce fencing stuff laid upon a piece of board in the bottom of the drain to resemble the letter V inverted. This is one of the best drains, but the cost of the material ought to decide what to use.

The cost of draining must depend entirely upon elecumstances. It will no

the material oright to decide what to use.

The cost of draining must depend entirely upon circumstances. It will not cost far from \$40 p. a. The benefits to be gained would be like comparison to find the stake. The exact labeled of the tree should equal the distance from the tree to the stake, plus the hight of the stake was exactly even with

30)YS

We Set You Up in Business

We want boys for Agents in every town, to sell

## THE SATURDAY EVENING POST

(Of Philadelphia)

We will furnish you with ten copies the first weel. FREE OF CHARGE; you can then send us the wholesale price for as many as you find you can sell for the next week.

A handsomely printed and illustrated magazine, published weekly at



You can find many people who will be glad to patronize a bright boy, and will agree to buy of you every week if you deliver it regularly at the house, store or office.

¶You can build up a regular trade in a short time; permanent customers who will buy every week. You can in this way earn money without interfering with schoolduties, and be independent.

Send for Full **Particulars** 

Remember that THE SATURDAY EVENING POST is 171 years old; the oldest paper in the United States, cstablished in 1728 by Benjamin Franklin, and has the best writers of the world contributing to its columns. So popular that a hundred thousand new subsenbers were added to its list the past

Address, The Curtis Publishing Company Philadelphia, Pa.

them will in the trench as it is filled. Top rock must be knapped up very fine and left 1 in lower than the top of the ground. On this the rocks for the walk are laid and will not move by frost if properly done.—[W. A. Sharp, Greenbrier Co. W Vn.