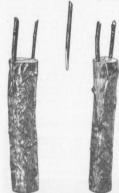
for this operation are a budding knife, grafting knife, saw, shears, a large knife for splitting and a mallet. Root knife for splitting and a mallet. Root knife for splitting is always done during the knife for some first splitting is always done during the first splitting is always for splitting the first splitting the first splitting the first splitting to the first splitting to the first splitting to the first splitting the first split

Farm that, by waxing them over, we get a larger percentage to grow. In the crown graft, the stock is left in the ground undisturbed and the work is done the latter end of April and the early part of May. To have a success in cherries, this should be done as soon as the snow is gone in the spring.

done as soon as the snow is gone in the spring.

The operation of top grafting is mearly the same as crown grafting only it is done on branches of trees and sometimes on trunks, if they are not too large, at the height desired. In top grafting it is better not to cut off too many branches in one year as well weaken the tree too much and the tree is and to die. It generally the tree is and to die. It generally it will weaken the tree too much and the tree is apt to die. It generally



An Example of Cleft Grafting

takes from three to four years to get a new top on a fairly good sized tree. In top grafting the cleft graft is used. illustration).

(See the illustration).

The following recipe is used for making grafting wax: Resin, 4 parts; all by becawax, 2 parts; tallow will be weight. A little mora tallow will not hurt. Another wax resummended is: 2½ lbs. of rosin; ½ lb. of becawax, 10 oz. of boiled paint oil. This is the better wax for outdoors.

## A Dangerous Pest

L. Caesar, Ontario Agricultural Col-lege, Guelph.

lege, Guelph.

During this coming season fruitgrowers of the Niagara district from
Hamilton to Niagara-on-the-Lake are
threatened with serious injury to their
threatened with serious injury to their
cherry, plum and peach trees through
the attacks of a very small black beetle about one twelfth of an inch long,
commonly known as the Shet-hole
Borer, Fruit Bark Beetle, or Pin
Borer. Under normal conditions it
confines its attacks to dead or dying
trees. When it become seasively
numerous, however, it has the dangersous habit of attacking perfectly healthy trees.

When healthy trees are attacked by When healthy trees are attacked by the beetles, gum masses aoon form over the holes bored by the insects through the bark. Very similar gum exuda-tions are caused by fungous diseases, such as Brown Rot. It say, how-wer, to tell whether the gum has been caused by the beetles or not. When-ever such is the case a round shot-like hole will be seen in the bark when the gum has been removed.

the gum had been removed.

The object of the beetle in attacking healthy. The object of the beetle in attacking healthy the service of the beetle in the service of the because is only in dead or dying trees that they can lay their eggs and produce offspring. This fact gives the clue to away and practicable removed, especially when we know that they pass the winter chiefly in the grub stage, twelf when the bark of the dead or dying twelf when the service of the servic

## THE REMEDY

Cut down and burn before April all dead and dying fruit trees of every kind and prus off dead branches. It is all important to off dead branches. It is all important before the should not be left in the old branches abould not be beetles would still on them. If this suggests were a stated upon by the fruit-provers as the stated upon by the fruit-provers as the stated upon by the fruit-prover as the stated upon the all danger to orchards from this peet will be removed. Each fruit-grown should in his own interests not only look after his own orchard but do his best to get his neighbor to do like-wise, because the insects will fly or a considerable distance from one or-chard to another.

chard to another.

Trees with cum masses on them

Trees with the end so badly weakend down unless the end so badly weakend that they are in the to breed
where the gum is exuding, become of the
whole the down the substitute of the end
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Growing Tomatoes for Cannery Louis P. Hubbs, Prince Edward Co., Ont.

Whether tomatoes are to be grown for home use or for the canning factory it is desirable that they commence to ripen their fruit early in the season, to avoid the early frosts which we so often have in this country. The first thing necessary to the production of a large crop is the securing of alarge well-grown plants at the proper time for transplanting, which in this locality is the last three or four days of May or the first three or four days in June. To secure these plants the seed should be sown the stewek in March in a hotbed that is well protected from the cold winds.

Too much care cannot be exercised

tected from the cold winds.

Too much care cannot be exercised in the selection of good seed. Sow the seed of drills about four inches apart, covering south half an inch deep and firm the soil well on top. As soon as the plant segment of the segm

MOVE TO COLD FRAMES

At about five weeks from the time of sowing the seed the plants should be ready to transplant to the cold frames. These cold frames. These cold frames prepared by placing about four incess of coarse horse manure in the bottom of the frame. Put on this at least five inches of good garden soil. Have this soil made very fine in the bed and be careful to place the soil at an even discount of the frame. The soil at an even five inches apart each way.

If the plants should be set about four the lies apart each way.

If the same and the first in the first plants should show signs of new growth in two risk days. As soon as the new first in since the first plants and the first plants should always and the first plants from the time of transplanting the cotton should be

taken off at least part of the day. Give plenty of water when necessary but do not water too often.

As it gets near the time to trans-

As it gets near the time to trans-plant to the field the plants should be left uncovered a longer time each day, and finally leaving them uncover-ed night and day if the weather does not get too cold. The water supply should be diminished a few days before transplanting in order that the plants may make a slow, stocky growth. The ideal plant is about four to five inches high and nearly as thick as a lead high and nearly as thick as a lead idea plant is about four to five inches high and nearly as thick as a lead pencil and of a good dark color. If handled this way the plants should start growth very quickly in the field. TRANSPLANTING

Great care should be taken in re-Great care should be taken in removing the plants from the cold frame in order to not break moving them to the field. The carrier or the field the plants can be set in the field without the field without plants can be set in the field without plants can the field without plants can the crop will be and more money made by getting the crop all ripe and depresed to the factory at a time when they are all wanted.

CULTIVATION

CULTIVATION

Cultivation should begin as soon as the plants are set. The early cultivation should be deep and close to the plants, but later it should be shallow in order not to injure the roots. The later the cultivation can be continued the later the cultivation can be continued the later the cultivation can be continued. later the cultivation can be continued the longer the picking season will last. When plants are the picking season will last. When plants are the plants are the plants are the plants are the well hilled up with a hoe, but looking seeds the plants are the plants get a good start. In getting the land ready for toma-tose it should be rich and well plowed in the fall. In the suring as soon as

toes it should be rich and well plowed in the fall. In the spring as soon as the land is dry enough to cultivate cover of this issue of Farm and Dairy well, it should be cultivated and kept may be found on page 11, at top of well stirred until it is time to set the liftst column.

plants in the field. In this way the land will be bound to be loose and moist and the continuous cultivating during the summer will keep the land moist. Early cultivation will also have a tendency to prevent the grubs from destroying the growing plants.

## A Hedge in One Year

A Hedge in One Year

T. McVittie, York Go., Ont.
It is easy to have a hedge from seed in one year. The mock cypress (Kochia scoparia) is the plant that will do it. It is a half-hardy annual and, of course, will have to be renewed every year. It will grow two or three feet in height and, if the plants are grown individually, four or five feet in circumference, forming compact bushes. It makes an effective and the semantial hedge. The small authornamental hedge. The small authornamental hedge. The small control of the semantial hedge is the semantial hedge of the semantial hedge is the semantial hedge of the semantial hedge is the semantial hedge of the semant

very often destroyed by overcrowding when planting.

To grow for pot culture, the seed may be sown in March, giving the same treatment as for balsam or other similar annuals. They should be given good drainage, if intended for potential to the control of the same they are constitued as a constituent warr along the as they are sometimes very slow in germinating.

germinating.

For outdoor culture the seed may be sown in April and the seedlings planted out about three feet for the period out about three feet for the period of May, taking care to be seed of water of the summer. The seed may be purchased from seedsmen that advertise in Farm and Dairy. in Farm and Dairy.



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