

bridge grafting, have saved for themselves many dollars' worth of fruit trees. Nevertheless, thousands of trees are allowed to die because the growers lack confidence in their ability to do the work. Some men, too, have the idea that a bridge-grafted tree always lags behind, is unproductive and sickly.* This is not the experience of the vast majority of growers who have done bridge grafting. Now and then a girdled tree which has been saved may become sickly and selves and sickly.* This is not the experience of the vast majority of growers who have done bridge grafting. Now and then a girdled tree which has been saved may become sickly and has been saved may become sickly and nailing in the scions.

Worthless, but this may be due entire

It is essential to success in bridge ly to some other cause.

and place it in position on the trunk just below the girdle, where it is outlined on the bark. The scion is then removed and, following the outline the tree about the time the first the bark is cut through into the wood. If the grafting is being done at the proper time the little piece of bark proper time the little piece of bark corresponding in size with the end of the scion will slip out readily, exposing a considerable portion of cambium tissue. The scion is then put in place and held while the other end is bent out. tissue. The scion is then put in place out.

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when the scion is ready for inser-then its factor is ready for inser-then its factor is ready for inserwhen the scion is ready for insertion it should be nailed at the bottom first. In order to hold the middle portion of the scion from coming close against the girdle, it may be necessary to use a wedge, between it and the trunk, when nailing in the top. It is very important that the scions of a series of a

Bridge grafting may seem like the done the pressure of the growing scoul operation and the amateur who will follow a few simple instructions should be as successful in the work as a man with experience.

Many instances might be cited where growers, inexperienced in bridge grafting, have saved for themetic before the pressure of the growing scion, analy force it to give way at the top or bottom. This bow also permits the tree to rock to and fro in heavy winds without danger of breaking the unions. The scions of a girdle should be placed about an inch and a half apart. If this is done it takes only three or four years for them to

grafting that scion wood be dormant nection with the operation of bridge grafting that must be adhered to in any time during late fall or winter and by keeping them in a cool cellar, buried in moist sand or sawdust. One lying principle in all forms of grafting is the same—that is, the cambium, or growing tissues of stock, and scion must come in contact with each other or growth cannot result. The cambium is a single layer of cells between the bark and the wood, and it is this tissue of a scion that must come in contact with the same tissue on the trunk of a girdled tree before the graft can possibly unite and grow.

HERE'S THE SURE-FIRE METHOD.

Here is the simple method which has proved entirely successful. The scions are made three or four inches longer than the girdle and large portions of growing tissues are exposed by cuts at each end of the injured section. Usually it is advisable to cut the lower end of the scion first, and place it in position on the trunk just below the girdle, where it is out-

is very important that the scions of a bridge be boxed out half or three-quarters of an inch. If this is not

POULTRY

Birds require more air than on animals and a poultry house my have dryness, light and ventilate. The ideal equipment for the sun farm flock would be one laying-hou and one brooder house. The brood house can be ten feet wide and the deep huilt on skids and this

spring, for the vitality of a flock is

O.A.C. No. 144 Oat.

O.A.C. No. 144 oat was obtain ad from the Siberian variety through nursery plant selection. This oat, which matures about the same time as the Banner, has a spreading head, white grain and less than the average per cent. of hull found in oats. The

The control of the property and the prop

poor .- Sir Ernest Pollock

Home Education

"The Child's First School is the Family"-Freebel."

到 "

I thank heaven that I was born poor.—Sir Ernest Pollock.

The plants should be set 12 to 15 inches apart, about 2½ to 3 inches ceep, with the hollow side of the striking gently and rapidly on the top of this two-by-four. It is then screeded, with a shovel. It is the shovel. It is then screeded, with a shovel. It is then screeded, with a shovel. It is t striking gently and rapidly on the top of this two-by-four. It may then be floated with a wooden trowel which gives an even surface and one which can be cleaned reasonably well. A more expensive method of floor construction is laying the concrete in

two floors somewhat in the same man-ner as sidewalks are usually con-structed. A thickness of floor is put in and a surface coat of richer ma terial, usually one of cement to two of sand, mixed wet, is placed on top. is then leveled by by-four used as a screed, and a wooden float for leveling.

It is generally advisable to use the steel trowel very sparingly on the surface as it has a tendency to pull toward the surface and to very smooth surface which is also likely to crack if too much cement is drawn to the surface. Where concrete floors are used in the stalls animals, it is advisable to keep plenty of bedding in the stalls.

Cork floors or creosoted wood block ors are someimes used for stalls. Perhaps the principal advantage is that these floors conduct less heat so that the animals are kept somewhat warmer. hese floors, are, however, more expensive than concrete.—H.

Common Clay for a Forge.

I have noticed small cast-iron forges in farm workshops about the country, and have observed that very few of the hearths are provided with the clay coating that should be main-tained for the preservation of the forge and insurance against fire.

Fire clay is, of course, recommended by the manufacturers for this pured by the manufacturers for this purpose, but common cley, if it is free from other substances, will serve the purpose. The clay should be moistened with water enough to make it plastic or puttylike in consistency, and a smooth coating applied over the a smooth coating applied over the surface of the hearth to the thickness of one inch at the least. Care should be observed that none of the clay is allowed to drop into the air-blast

After applying, the clay should be allowed to dry naturally for a day or two, according to weather conditions, after which a fire should be built in the forge to harden the coating. A slow, steady heat for two hours will usually suffice to give the clay a brick-hard finish.—G. E. H

Sugar is found in the sap of nearly two hundred plants and trees.



PACIFIC COAST FISHERIES TRADE WITH ORIENT

Number 1-Unloading fish by elevator at Port Alberni. Number 2-Captain R. B. Benett, skipper of the steamer Princess Ena, which has carried 12,000 tons of salt herring this season from Barclay Sound to Vancouver for trans-shipment to the Orient. Number 3—Canadian Pacific S.S. Princess Ena. Number 4—System of harvesting the herring. Number 5—Slinging fish from scow to dock. Number 6—Product in barrels ready for export.