

POULTRY

O.A.C. No. 144 Oat.

Home Education

the fase of the collar should be cleaned off and the surface which comes into actual contact with the surface which fallow as a successful in the work and painful to the content into actual contact with the surface with the sur

construction is laying the concrete in two floors somewhat in the same manner as sidewalks are usually con-50 cents for postal cards."—F. R.

structed. A thickness of floor is put

to crack if too much cement is

two hundred plants and trees.

in and a surface coat of richer material, usually one of cement to two of sand, mixed wet, is piaced on top. It is then leveled by means of the two-by-four used as a screed, and a wood-property of the most methodical and efficient farmers of our acquaintance. cient farmers of our acquaintance.

or float for leveling.

It is generally advisable to use the steel trowel very sparingly on the sturface as it has a tendency to pull toward the surface and to produce a very smooth surface which is also likely to crack if too much cement is which he marks down any suggestiment for the surface which is also with him a memorandum book in which he marks down any suggestiment for the surface which is also with him a memorandum book in which he marks down any suggestiment.

likely to crack if too much cement is drawn to the surface. Where concrete floors are used in the stalls for animals, it is advisable to keep plenty of bedding in the stalls.

Cork floors or creosoted wood block floors 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. H. M.

Common Clay for a Force.

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Common Clay for a Forge.

I have noticed small cast-iron forges in farm workshops about the country, and have observed that very gen few of the hearths are provided with the clay coating that should be maintained for the preservation of the least favorable condition to do it.

With a vocation which must meet the many requirements and conditions that farming must, some help of this kind is needed, at least, for the average farmer. For it too frequently happens that we are called upon to do the most serious thinking when we are in the least favorable condition to do it.

We, therefore, suggest to our many

forge and insurance against fire.

Fire clay is, of course, recommended by the manufacturers for this purpose, but common clay, if it is for

ed by the manufacturers for this purpose, but common clay, 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 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 opening.

After applying, the clay should be allowed to dry naturally for a day or allowed to dry naturally for a day or

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. At the best producers. They should be slow, steady heat for two hours will usually suffice to give the clay a brick-hard finish.—G. E. H.

Every man is a potential felon, and Sugar is found in the sap of nearly most of us have already committed we hundred plants and trees. | misdemeanors.—Ms J. A. R. Cairns.



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.

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 worthless, but this may be due entirely to some other cause.

owing tissues of stock, and scion wet or

has proved entirely successful. The that if damage has been done there scions are made three or four inches will be ample time to collect a supply longer than the girdle and large portions of growing tissues are exposed have been girdled down to the roots the by cuts at each end of the injured will be necessary in cutting the scion section. Usually it is advisable to cut the lower end of the scion first, the girdled portion on these particular than the provided response to the provided respo removed and, following the outline, in the tree about the time the hirst the bark is cut through into the wood. If the grafting is being done at the proper time the little piece of bark peels readily.

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 heart out. tissue. The scion is then put in place and held while the other end is bent over against the bark at the upper side of the girdle. This should be done to get a better idea of the correct plane on which the top cut should be made. The cut surface of the scion should fit flat on the exposed stock.

When the scion is ready for insertion it should be nailed at the bottom first. In order to hold the middle por-

tion 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 bridge be bowed out half or three-guarters of an inch. If this is not come to square root he is there.

by to some other cause.

There are a few essentials in connection with the operation of bridge grafting that must be adhered to inorder to insure success. The underlying principle in all forms of grafting principle in all forms of grafting the same—that is, the cambium, should be careful not to keep them too meet any enterly the same of stock, and scion water any eller them to the keep them too meet any eller them. must come in contact with each other wood may be allowed to remain in the must come in contact with each other wood may be allowed to remain in the or growth cannot result. The cambium is a single layer of cells between three weeks before the grafting is to the bark and the wood, and it is this be done. Vigorous one-year-old water tissue of a scion that must come in sprouts or sucker growths from hardy contact with the same tissue on the varieties such as McIntosh, Duchess, trunk of a girdled tree before the Wealthy, Snow, Spy, or the like, make aft can possibly unite and grow.

HERE'S THE SURE-FIRE METHOD.

WERLIN, Show, Spy, or the like, make the very best scion wood. During early spring young orchards should be look-HERE'S THE SURE-FIRE METHOD. spring young orchards should be look.

Here is the simple method which ed over carefully for mice injury so has proved entirely successful. The that if damage has been done there

and place it in position on the trunk trees.

Just below the girdle, where it is out. For best results grafting should be lined on the bark. The scion is then delayed until a very little green shows removed and, following the outline, in the tree about the time the first