BROODING METHODS

(Experimental Farms Note) If less than 100 chicks are to be brooded the old natural means will answer: if more, the artificial means are to be prefer-

NUTURAL BROODING

Some hens never make good mothers If the sitting hen is not suitable, transfer some of the eggs before hatching to one that is, if you have her.

Free from lice: Treat the mother her for lice several times before the chicks several broods at a time, and double up the chicks, giving 15 to 18 to each hen.

Cooping: Small "A" coops to accommodate one family are good. Where hens agree, larger coops or colony houses may serve the purpose for several hens and their broods. Keep the broods away from the morning.

ARTIFICIAL BROODING

degrees under the hover. It should have good ventilation, no draughts, and it should be easily cleaned.

Individual brooders: So called out-door brooders are not always satisfactory, being too small and lacking ventilation. Indoor brooders are better, as the house accommodation can be made to suit conditions. Where there is too much wind or the lamp outside, try it inside the coop. of satisfaction. Cold brooders are satisfactory, if not used too early and the number of chicks is limited.

when even the best managed plant is is sown too late; and if the summer is short of brooder space, and emergency cool and wet the onions will not ripen and quarters have to be arranged. Some- will run to thicknecks. The seed should times the services of several broody hens can be utilized at such a time. This, however, cannot always be depended upon, mature while the warm weather continues and a lantern or a hot water bottle placed thus ensuring a thorough ripening and will sometimes help one over a hard place. development of bulbs, especially in places may also be used for this purpose, or one are set out instead of the seed being can resort to the cold brooder.

chicks, and especially when the chicks are harm in the onion plantation. Watering all same age, is the room or stove brooder the rows every four or five days with This is a small stove which burns coal hellebore and water, in the proportion of and is automatically regulated. For broad two ounces of hellebore to one gallon of ing on a fairly large scale, not too early in water, while the insects are most trouble the year, these brooder stoves are very some, will control them to a considerable actory. They can be placed in an extent. ordinary colony house that is used for other purposes during the rest of the year There are also stoves of this description which burn oil instead of coal. We have tried both kinds. The oil is quite satisfactory, except for the extra cost of fuel, Pipe brooders: For larger plants and earlier hatching the pipe brooder is probably the most satisfactory. It is more expensive to install, but the heat so regulated that the conditions are available. There are a number of systems of pipe brooders on the market, most of which

is not too great. CLEANLINESS ABOVE ALL THINGS In brooding, whether natural or arti-

quickly than lack of cleanliness. fed judiciously, should live. This year, found the most satisfactory. more than ever, care should be taken that the chicks which are hatched should be given every chance. Provide them with suitable brooding quarters, feed sparingly on dry feeds, and keep everything scrup- we'll get along fine."-Louisville Courier.

POINTS ON THE CULTIVATION OF TREATMENT OF FRUIT TREES SOME VEGETABLES MOST DIFFICULT TO GROW

(Experimental Farms Note)

Cauliflower, although one of the most plants, transplant them from the seed row, pot, or flat to a distance of about two inches apart each way as soon as possible should provide a temperature of 90 to 100 disc can be obtained from the Department of Agriculture, Ottawa. If the first plantof cauliflower is a failure, a second planting should be made, as cauliflowers are much easier to grow in late than in earlier summer, as the maggots are not so troublesome at that time and there is usually an abundant supply of moisture. If the soil in which cauliflowers are grow ing is dry, they will not head well, as they need lots of moisture and must be kept The indoor electric hover gives the best growing without a check from start to

The onion is another rather difficul vegetable to grow. It requires a long Emergency brooders: There are times season of growth, and very often the seed in a box and covered over with sacking curing of the bulbs. To hasten the Small coal-oil stoves and electric heaters where the season is short, young plants an resort to the cold brooder.

Room or stove brooders: One of the bulbs also, where the warm season is best brooders for large quantities of short. Root maggots often do much

Except in the warmest parts of Canada melons require considerable care to en-sure the ripening of many of them. The them in position. After inserting, some and kept under glass until there are warm the scion, as it is here, or at the cambium nights in June or even July. Melons re- layer, where union takes place. As soon quire heat below and heat above, hence as the scions are all placed, the wound, the necessity of keeping the soil warm by especially about the ends of the scions having a good bed of manure. They will where inserted in the stock, is covered not succeed in cold soil even if the air with grafting wax. The ends are also at are satisfactory providing the bottom heat however, should be delayed until the ground is sufficiently warmed up so that back. The scions, if properly made and heavy watering will not cool it too much. inserted, should soon unite with the stock Brussels sprouts do not develop well in and then carry the sap to the top of the

ficial, absolute cleanliness must be observ- hot, dry weather and, unless the autumn tree. ed. Brooding quarters cannot be kept is a long one without severe frost, they too clean, and there is nothing that will are not satisfactory. It is important, kill off a bunch of young chicks more therefore, to plant varieties that will be most likely to develop where the season Healthy chicks, put into clean brooders, is short, and the dwarf ones have been

> "I am unworthy of you," he murmured Stick to that idea," said the girl, "and

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and road in every portion

of Canada. TEither mark

is the sure sign that all is

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WHICH HAVE BEEN INJURED BY MICE OR RABBITS

(Experimental Farms Note)

As mice or rabbits have, doubtlessly, delicious vegetables, is one of the hardest injured many trees in Canada during the bears an intimate relation to their producto grow in many parts of Canada. It past winter, the following information is tive capacity. Humus not only fulfils the damps off easily in the hot-bed, is often badly affected by root maggot, and badly affected by root maggot, and frequently does not head well. In raising badly girdled by mice or rabbits it usually wound is noticed, it is cleaned and covered with grafting wax or some paste, such Double up: Have the chicks come out after the seed germinates. This permits as sulphur, cowdung, and clay, and wrapa freer circulation of air between the ped with cloth to exclude air and prevent plants and makes the danger of damping the wood from drying out, there is a be considered the chief means employed off much less. Root maggots are bad possibility of saving the tree if the girdle nearly every year in many places in Can-ada and often prevent practically all the and returning through the inner bark in plants from heading. Eggs are laid on and returning through the inner bark in the ground near the plant which soon an elaborated condition will cause growth such as rye, buckwheat, rape, vetches, or the general flock. Move the coop frequently. Don't let the hen out when the chicks are small, and especially early in the ground near the plant which soon an elaborated condition will cause growth to be made all around the upper part of the ditions are conductive to its satisfactory growth—is generally to be preferred. By satisfact the morning the morn disc should be placed around each plant If, however, the wood becomes dry before close to the ground at the time of plant- the bandage is put on, the tree will almost ing. It will be too late otherwise. Full certainly die, although it may continue to variety both good and bad. Any brooder particulars in regard to the use of the grow throughout the season. When the should be headed back considerably to two feet across at the base.

together and form a new trunk, but two 100 pounds potash. sarily from the same tree, nor even the A good crop of clover from one acre if are made a little longer than the distance manure. between the cuts in order that when in- In the experiments referred to, 10 serting the ends into the cuts it will be warm season is too short. To overcome of the inside bark of the stock should rethis, melons should be started in hot-beds main in contact with the inside bark of above ground is warm. Melons require the same time bandaged with a piece of a plentiful supply of moisture in the soil sacking around the trunk to aid in keepto give the best reaults. Much watering, ing the scions in place and to exclude the air. The tree should then be well headed

> One of the most satisfactory methods of utilizing the badly girdled tree is to cut if off close to the ground and insert a scion of some good variety. This graft should grow at least three feet in height the first season and make a nice young

> A young tree may sometimes be saved when the girdling is well above the graft by cutting the tree back so as to remove all of the injured part. Under such conditions young trees will usually make new growth and the strongest shoot may be selected to form a new trunk and top for the tree. This method is not usually very satisfactory if the injury occurs more than two years after the tree has been

NEWOUNDLAND CALLS UP MEN

St. John's Nfld., April 27-The Legislature opened on the 23rd. At the preliminary sitting held at noon, Mr. William Higgins, member for St. John's East, was elected Speaker of the Assembly, succeeding Mr. John Goodison, member for Car-bonear, who accepted public office some

In the afternoon the Governor officiated. His Speech from the Throne announced bills for enacting selective conscription; extending the life of Parliament; and raising a local loan for war purposes. The conscription measure is based in its main principles on the Canadian measure, but renders all men from nineteen to forty, unmarried, or childless widowers, liable for military service save for certain limited exceptions.

All men liable are divided into four classes each covering five years of the twenty, and the youngest classes are to be called first. The first category is excted to yield one thousand men. The nly exemptions are men who have served in the Empire's naval or Allied military forces, clergymen, and those exempted under the Military Service Act.

THE MANURIAL VALUE OF CLOVER

(Experimental Farms Note)

The amount of semi-decomposed vege table matter or humus present in our cultivated soils-sandy and clay loamsbut furnishes also the essential medium dies if left untreated. If, as soon as the for the activities of the bacteria which liberates plant food in the soil. Further more, humus constitutes the chief natura source of the soil's nitrogen supply.

Applications of barnyard manure may in the maintenance of humus in the soil. clover disintegrates and aerates the lower soil layers and brings up therefrom plant food supplies unattainable by other more shallow rooted crops.

An additional advantage which clover, lessen the amount of transpiration of in common with all members of the moisture, as there will not be as much sap legume family, possesses, is that of its rise as if the tree were uninjured, and the ability to assimilate the free nitrogen of wood will thus dry out sooner than if it the soil atmosphere by means of minute were headed back. If the girdle is near bacterial organisms living and operating the ground, in addition to covering the in small nodules on its roots. Thus injured part with wax or cowdung and clover gathers the greater part of its clay, it is advisable to mound up the soil nitrogen from the air, and its phosphoric about the tree to cover the wound and acid, potash, and lime largely from soil thus help to prevent the wood from dry- depths beyond the reach of the roots of ing out. The mound should be up about ordinary crops, consequently enriching six inches above the wound and be about the surface soil with these constituents for the benefit of succeeding crops.

Girdled trees are frequently saved, and How does clover compare with manure more surely saved than by the above as a tertilizer? Barnyard manure of method, by connecting the upper and good average quality contains approxiower edges of the girdle with scions, mately 10 pounds nitrogen, 5 pounds which are inserted about an inch apart all phosphoric acid, and 10 pounds potash around the trunk. This is known as per ton. Therefore 10 tons of barnyard bridge grafting. The more scions that manure would furnish about 100 pounds are used the more quickly they will grow nitrogen, 50 pounds phosphoric acid, and

or three scions successfully grafted on a Experiments conducted at the Central small tree will carry enough sap to keep Experimental Farm. Ottawa, have shown the tree alive. A slanting cut is made at that a vigorous crop of clover will contain, each end of the wound in the uninjured at a moderate estimate, in its foliage and wood in which the ends of the scions are roots, from 100 to 150 pounds nitrogen, 30 to inserted. Strong, plump scions of to 45 pounds phosphoric acid, and 85 to the previous season's growth—not/neces-

same variety—cut a little longer than the it were turned under may, therefore, be distance between the slanting cuts, are deemed equal, in fertilizing value, to an made wedge-shaped at each end. They application of ten tons of barnyard

growth of clover depress the yield of slag, per acre, may be recommended. grain with which it was seeded

more after wheat with clover than after

With potatoes the results were equally striking. After wheat, barley, and oats with clover the increases were, respectively, 43 bushels, 20 pounds; 29 bushels, 40 pounds; and 24 bushels of potatoes, per acre, as compared with the yields from adjoining plots without clover.

The full benefits from clover will as a rule be noticeably persistent for several got very angry whenever I heard anybody

satisfactory growth of clover will be en-

was seeded down with various grain phosphatic fertilizer, designed to benefit crops, while adjoining plots were seeded both the grain and the clover, 300 pounds with grain alone. In no instance did the of superphosphate or 500 pounds of basic

Unleached wood ashes contain, on an In the following year, fodder corn average, from 4 to 6 per cent, of potash, (Leaming) produced 8 tons, 480 pounds, about 2 per cent. of phosphoric acid and from 20 to 30 per cent. of lime. They are wheat without clover. After barley and eminently suitable as a fertilizer for oats, increases of 11 tons, 1280 pounds, clover and, when procurable at a reasonand 5 tons, 1440 pounds, respectively, of able price, should be applied at the rate corn, per acre, were obtained on the of from 25 to 40 bushels (1000 to 1600) pounds) per acre.

> "So you got mad at him for kissing you?" "No; I got angry at him for bying he was sorry he did it, when I pretended I was angry."-Houston Post.

" How did you first learn that you loved me, sweetheart?" "I found that I calling you a brainless idiot."-Puck.

couraged by an application of, say, two Keep Minard's Liniment in the house



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