# **MINERALS FOR YOUNG STOCK**

BY CHARLES A. MATTHEWS.

tain calcium and phosphorus in quan-tities sufficient for normal require-For hogs a mixture composed of 45 sufficient for normal require-

with very good effect. Perennias like April-May. Phiox subtract varieties, many forms of garden plants, require well drained good soil. That is to key. May-July. Dianthus (pinks), Mrs. say, where one may expect a satis-Sinkins, white, nine inches, June-July. many forms of garden plants, require well drained good soil. That is to say, where one may expect a satisfactory crop of potatoes, perennials will usually do well. In preparing for a perennial border, well rotted manure should be deeply dug in. As the plants are to remain where planted for several years, a good supply of manure is needed from the beginning of manure is needed from the chicks are run
It

plants should be used for the back. In the fall or spring. The personnal should not be closer than should as the class of the case of the

Animal autrition studies indicate that a deficiency of certain mineral elements in the feed of pregnant females is largely responsible for various ailments among the young of our farm animals.

This is said to be particularly true in sections around the Great Lakes. There it often happens that the young of horses, cattle, hogs and sheep are born dead, or weak and hairless or nearly hairless, as a result of goitre. Goitre also occasionally develops in the young after birth.

This is attributable to a deficiency of iodine in the feed or drinking water of the dam during pregnancy, or of the young during earliest developments.

The mineral is a birth the young and need not be expensive. All

ment.

The minerals in which the ordinary feed is most likely to be deficient are calcium, phosphorus, sodium, chlorine, and iodine. Nonleguminous forage is particularly apt to be deficient in these minerals, especially when grown on acid soils.

Forage and pasture crops grown on lime soils are generally found to contain calcium and phosphorus in quantum and phosphorus in quantum and phosphorus.

Mineral mixtures are easily made up and need not be expensive. All use the part of suggested:

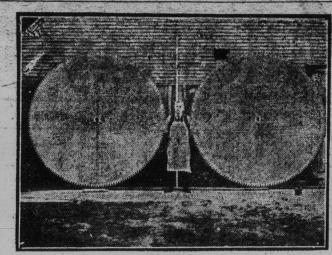
A mixture of equal parts of ground limestone and salt will furnish calcium but will be deficient in phosphorus. A mixture of equal parts of steamed bone meal and salt will supply both calcium and phosphorus.

ments. Leguminous roughage also parts of ground limestone, 45 parts of usually contains satisfactory quantities of both calcium and phosphorus. tankage is said to give excellent re-

The planting of the border is important. The tallest growing kinds of plants should be used for the back. In the fall or spring. The perennial

which should form the front edge of the border, should be about fifteen inches from Line No. 3, and nine inches from the grass or the walk which it skirts. This row should consist of edging plants of quite dwarf nature, arranged in clumps of considerable size. In the planting it is not necessary to adhere to a straight line for the different rows. These should be sufficiently irregular as to take away all appearance of rows in the border. In the choosing of plants questions to be considered are hardiness, time of flowering, duration of flowering, and color. There are endless kinds and varieties of perennial plants from which to choose. Mr. H. J. Moore, a well-known landscape horticulturist, has recommended to the Ontario Horticultural Societies a suitable list, having reference to colors, hardiness and time of flowering, and flowering, and a flowering, and plants from a specific plants of the cow. Without her milk chilars are runs low.—F. O. Lowden, and reference to colors, hardiness and time of flowering, and plants from a specific plants are an another chance with the danda. On the other hand, if he poss the peg into the gurchi, player takes his place.

But tip cat is not the east to strike with "danda." "Elavis and the stack to



Henry Disston, of Toronto, has just completed what are claimed to be the two largest saws ever made in the British Empire, measuring

### Plums From Stones.

Growers of plums will find a deal of Lord God in Paradise, valuable information in the recently published bulletin on "Plum Culture," Bless the little gardens by the Dominion Horticulturist, which can be obtained by applying to the Publications Branch of the Dept. of Agriculture, Ottawa. Of special interest is a chapter on "Seeding Varieties," which indicates that no part of the country read by without players of the country read by without players. farm ration.

Calcium may be supplied in the form of high-grade ground limestone, bone meal, steamed bone meal, spent bone black, wood ashes, ground rockphosphate, acid phosphate, or slaked lime. Of these, high-grade ground lime and steamed bone meal are regarded as the wood as the supplied in the grain!

to some simple mineral mixture, or an addition of about 2 pounds of minerals to 100 pounds of dry concentrates. Iodide is not recommended as an ingredient of mineral mixtures for general use. It is not definitely known just how much iodide is required to prevent goitre in regions where it occurs. A dose of 2 granded as the word as the supplied in the country need be without plums of the country need be without plums of some kind and which can be easily cultivated. After remarking that while many fine kinds of plums are grown in Canada, there is always a possibility of getting something better, the bulletin goes on to say that in the colder parts of the country need be without plums of the country need be without plums of some kind and which can be easily cultivated. After remarking that while many fine kinds of plums are grown in Canada, there is always a possibility of getting something better, the bulletin goes on to say that in the colder parts of the country need be without plums of the country need be without plums of some kind and which can be easily cultivated. After remarking that while many fine kinds of plums are grown in Canada, there is always a possibility of getting something better, the bulletin goes on to say that in the colder parts of the country need be without plums of the country need be without plums of some kind and which can be easily cultivated. After remarking that while many fine kinds of plums are grown in Canada, there is always a possibility of getting something better, the bulletin goes on to say that in the colder parts of the country need be without plums of the countr bone black, wood ashes, ground rock phosphate, acid phosphate, or slaked lime. Of these, high-grade ground lime and steamed bone meal are regarded as the most desirable sources of calcium.

The bone meals and rock and acid phosphate are also sources of phosphate are also sour The bone meals and rock and acid phosphate are also sources of phosphorus, steamed bone meal being the form most preferred.

WHEN TO USE IODIDE.

Common salt will supply all the needs for both sodium and chlorine. Iodine may be supplied in the form of either potassium iodide or sodium

The bone meals and rock and acid phosphate are also sources of phosphorus, steamed bone meal being the form most preferred.

Larger quantities may be poisonous, so care should be exercised in administering iodide. A tablespoonful of a mixture composed of 1 ounce of iodide dissolved in 1 gallon of water will contain about 2 grains of iodide. This quantity may be sprinkled over or of either potassium iodide or sodium

Move the Colony H

One of the most common brooding chicks during the from soil infection, result to become dry. Stones can be kept over winter in boxes mixed with moist over winter in boxes mixed with moist but not wet sand. The process to

Fruit trees for use on the poultry farm are a wise investment. They fur-

Happy is the man or woman who has some one to believe in him or her.

## Grace for Gardens.

And the good green growing!

For the wonder of the seed, Wondering we praise you while

# Move the Colony House.

One of the most common losses in brooding chicks during the spring is from soil infection, resulting from coccidiosis, worms and digestive dis-

hook, of course."

# RHUBARB WITH VARIATIONS

Rhubarb, that good spring fruit our grandmothers set such store by, is one of the most valuable of plants for its spring tonic effects. Few housewives realize its possibilities as a dessert; they assign it to the sateepan without any attempt at further improvement, unless it is the making of a simple pie. The following ways will help to vary its use:

Boiled Rhubarb Pudding—To half a pound of chopped rhubarb add half a cup of finely chopped suet, five cups of sifted flour, two teaspoons of baking powder, one cup of sugar and enough milk to make a stiff batter; tie in a floured cloth and boil three and a half hours. Serve with hard sauce.

Rhubarb Dumplings—Stew rhubarb which has been cut into inch lengths in a little more than helf its woicht of the serve with are successive. When almost cold add one pint and the serve was a size of the serve were and cook until tender. Put in two cups of sugar and stir until dissolved, then strain through a fine sieve. When almost cold add one pint and the server was a size of the server was a si

which has been cut into inch lengths sieve. When almost cold add one pint in a little more than half its weight in of cream and more sugar if desired, in a little more than half its weight in sugar and just enough water to keep from burning. (It forms plenty of juice when it begins cooking.) Make a batter of two cups of flour, half a teaspoon of salt, two teaspoons of baking powder, a scant cup of sweet milk, and drop this into the boiling rhubarb by spoonful. Serve hot either with or without cream.

Rhubarb Salad—In some menus a fruit salad takes the place of dessert. To prepare such a salad from rhubarb, soak three tablespoons of powder, a scant cup of sweet water until soft, then add two cups of billing water and stir until the gelatine is dissolved.—Stir in four tableman such as the salad from rhubarb by spoonful. Serve hot either with or without cream.

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ing dish, then a layer of bread crumbs (either white or brown bread),

cake as for strawberries or peaches, squares and serve on any kind of but use for the filling the following salad green with a mayonnaise dressbut use for the filling the following salad green with a mayormaise dress-mixture: Rhubarb which has been ing. A white salad dressing, excellent stewed and sweetened to taste and for this salad, is made by adding half mixed with chopped citron or candied orange peel. Garnish the top with a cup of whipped cream to the usual

orange peel. Garnish the top with whipped cream to the usual mayonnaise mixture (made with lemon instead of vinegar).

Rhubarb Jelly—Cook one pound of chopped rhubarb in a cup of water and one of sugar until tender. Have ready one tablespoon of gelatine soak-small pieces ten stalks of rhubarb, mix ed in half a cup of cold water, to it with four ounces of chopped raisins which has been added either four and six cups of water and let simmer tablespoons of lemon or orange juice for an hour. —Strain and add two and some of the grated rind of whichever fruit is used. Combine and pour with shaved ice.

with or without cream.

Rhubarb Betty—Place a layer of cooked rhubarb in a well buttered bak
of sugar.

Rubarb a square granite pan to

then a layer of bread crumbs Pour into a square granite pan to white or brown bread), the depth of about an inch and set on sprinkle with brown sugar and cinna-the ice to harden. When it begins to mon, and repeat until the dish is full. congeal add a pint of chopped rhu-Bake in a moderate oven until brown and serve with plain or whipped tender and sweetened slightly, and ream. one cup of chopped nuts. When cold Rhubarb Shortcake—Make a short- and hardened cut into three-inch

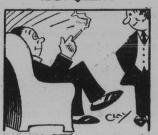
CLIPSE 6

### Preservation of Eggs.

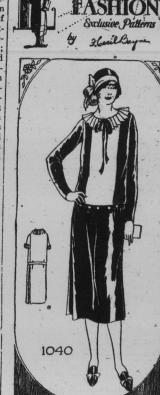
The Perennial Border.

Many owners of homes who hesitate to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time it would seem to take outly different to grow flowers on account of the time to grow flowers on the grow flowers on the grow flo It is not easy nor possible to cleanse this ground when the chicks are runmanure is needed from the beginning to assure fine bloom year after year. Bone meal lasts well in the soil and should be freely used when preparing for a perennial border. The width of the border will depend largely on the breadth of the lawn. It may vary from three to twelve feet.

Practically all of these plants can be grown from seed, when a year must be lost before bloom is secured. The seed is sown in rows as is the seed of annual flowers, transplanted and cultivated during the first year in readiness for planting out in the border in the autumn. The plants ped in boiling water and unwrapped turned out poorer than any.



Put Her Ring on the Hook "When a girl starts fishing for proposal what should I do?"



A FLATTERING AFTERNOON GOWN.

Navy blue twill or heavy silk interprets this delightfully fresh afternoon gown. The side plaits give a width to the narrow silhouette which is always welcomed by the active miss and small woman. There is a freshness about the grey set-in front of contrasting material, while the plaited frill about the neck and sleeves is always youth-ful and flattering to the small woman. Very attractive is this model, No. 1040, made in brilliant-colored tissue A city-bred girl married a young farmer. As her husband came into the ful when the dress is made of wash materials. Cut in sizes 34 to 42 inches bust. Size 38 requires 4% yards of 36-inch material.

HOW TO ORDER PATTERNS. Write your name and address plainly, giving number and size of such pass

terns as you want. Enclose 20c in mps or coin (coin preferred; wrap it carefully) for each number, and address your order to Pattern Dept., Wilson Publishing Co., 73 West Adelaide St., Toronto. Orders filled by return mail return mail.

# Rhubarb Custard.

For each egg use one cup of stewed rhubarb which has been put through a sieve. Add the rhubarb to the well beaten yolks, sweeten to taste, then beat in the whipped whites. Put the whole into a buttered baking dish and bake until firm and it shows signs of cracking. Serve when cold.

Elow up the stumps and stones, or you are likely to blow up when the weak hits one.