

Address communications to Agronomist, 73 Adelaide St. West, Toronto

Catting Timber on Farm Woodlots. Many farm woodlots could be put in better shape by judicious thinning or by planting up the openings with valu-able species of trees or by both. In many woodlots the growth of timber is at a standstill, growth of the young-er trees being offset by decay of the older ones. In many woodlots faster growing and more valuable species.

growing and more valuable species A cubic foot of ice weighs about can be introduced to advantage. When-fifty-seven pounds, so in storing it is ever a woodlot is thinned or cut-over, customary to allow from Torty to unless the land is to be cleared for fifty cubic fest per ton for the mass farm crops and unless a new growth of ice. At least twelve inches must of trees come up within a couple of be left between the ice and the wall years from seed already in the ground of the building for insulation, unless or cast by other trees, planting should the ice house has permanently insul-be done in order to keep the woodlot ated walls and an unusually large productive. A good thrifty woodlot ated walls and an unusually large productive. A good thrifty woodlot space for insulation beneath and above will produce about two standard cords the ice. From these figures it is possible to calculate really the quantity of ice that any given ice house will hold.

which should be cut are those which are stunted, diseased, injured by insects, badly fire-scarred or dead; also inary work in preparing the ice field trees of inferior species, as large beech will be required before freezing weathwhich are crowding more valuable er sets in. It is therefore advisable ones, such as sugar maple, white ash, white oak, hickory, etc. Slow-growing trees which are crowding fast-growing ones should also be cut. Water for the ice supply should be entirely free from contam-ination or pollution. Ponds and slug-

crowns beneath which other trees can grow only very slowly, if at all. The cayed vegetable matter; which is al-beech is a tolerant tree. It will stand ways objectionable. They should light-demanding trees, such as bass-, ed. wood, black walnut, eim, black cherry, etc. The reason it occupies such a dominant position in the woodlots totrees were cut the beech remained; thus becoming the largest trees and shading or stunting others.

sold by contract, an estimate of the amount should be made and its value special fibre containers. determined before selling Bids should be secared from several reliable parts the ice house at a single cutting as Measles. be secared from several reliance the ice house at a single outline ice is if possible. It may be better to the thickness and quality of the ice and the thickness and quality of the ice and the timber.

After cutting, it is often desirable to plant up the openings with trees. Forest planting in itself is a good investment on poor soil and on areas, not suited to other crops, as well as for windbreaks and to hold shifting sand. The species to plant depends on the soil, and the objects which the owner has in mind. For forest planting in general a spacing of six by six feet, requiring approximately twelvo hundred trees to the acre is best.

Harvesting the Ice Crop.

Each year dairymen lose thousands of dollars from returned sour milk, poor butter, and low quality cheese. These losses are very largely due to improper cooling of the milk and cream on the farm. For good results milk and cream should be cooled to fifty degrees or lower and held there; and as this usually can best be done by the use of ice, dairymen should take advantage of any near-by lake or stream to obtain a supply of ice for next year.

ice-harvesting season fortun= ately comes at a time when there is the least work on the farm for men and teams, and consequently the actual money cost is usually not very

In some woodlots the beech are the gish streams usually have grass and largest trees present. They form heavy weeds growing in them, so that the ice harvested is likely to contain debeech is a tolerant tree. It will stand much shade and its proper position in the forest is as an under-storey to light domandius in the store is as an under-storey to

home.

child.

home, or a failure on the part of the

parent to recognize the fact that there

was anything seriously wrong with the

It may be well, therefore, to give a

few of the important symptoms by

which a parent can recognize the vari-

Measles.

days after the child has been exposed.

The child may come home from school

observant mother realizes that some-

thing is wrong. The child may com-

hoarse, hard cough, and some running

from the nose convince the mother

that the child has "caught cold." On

the following day the child's blood-

Mothers experienced in using a clin-

In some sections it is necessary to This may be done either by excavatday is because the timber has had little ing and diverting a stream into the value in the past and when the other excavation, or by constructing dams across low areas. In localities where very low temperatures prevail for several weeks at a time, and the sup-If a large amount of timber is to be ply of pure water is limited, blocks of

ice may be frozen in metal cans or in

will be more nearly uniform, and the necessary preparation for cutting and harvesting need not be made but once. In many instances, however, the size of the pond or stream is such that it is necessary to wait for a second crop in order to fill the ice house. The av-

erage farmer requires only a comparatively small quantity of ice, so that even a small harvesting surface will usually prove large enough, especially if ice is cut the second time. The square feet of surface required per ton when the ice is of different thicknesses shot, watery eyes will attract atten-

is shown in the following table. Size of cake is twenty-two by twenty-two

12

14

16

18

tion, and the experienced mother may then suspect measles. At this time inches a physician will usually be able to make a definite diagnosis, for on open-Square Feet of Ice Surface Required Per Ton of Ice. ing the child's mouth a careful look at the inner side of the cheek shows Number Cutting a few characteristic white-tipped red Thickness Cakes Space spots, the size of the head of a pin, of Required Required which are one of the signs of measles. Ice. Per Per Ton Inches Sqr. Ft. 105.4 Ton ical thermometer will find that the 31.3 child has some fever, reaching 100 de-20.9 70.2 grees or 101 degrees or more on the 15.6 52.6 second day. 10 12.5 42.1

10.4

8.9

7.8 6.9



How to Recognize the So-Called Children's Diseases

Under the term "children's diseases" germ of measles is present in the dis ve usually include measles, scarlet charges of the nose and throat even before the rash appears. In fact, just fever, diphtheria, chicken pox, whoop-ing cough and mumps. Prior to the before the rash appears. In here, just before the rash comes is probably the time when the discharges are most highly dangerous to other children. No child suffering with symptoms deeral introduction of vaccination smallpox was also one of the children's diseases, being just as prevalent then as measles and scarlet fever are now scribed above should be allowed to go

The children's diseases are readily to school or to mingle with other chilspread when children are brought todren. In all cases of doubt a physigether in large numbers, as in school cian should be called to decide or a poorly ventilated moving picture should be done. The danger of spread hall. It is natural that the classroom ing the disease to others disappear is often the means of spreading the soon after the appearance of the rash infection. This is especially likely so that in uncomplicated cases it is usually considered entirely safe to have the child return to school a week when there is no system of school medical inspection, and when parents have not been taught their responsiafter the rash first appeared. bilities in keeping infected children at Scarlet Fever.

Within a week-sometimes within Experience shows that in most intwo or three days-after your child stances in which children's diseases has been exposed to scarlet fever. if are contracted in school there had been failure to keep an infected child at

she is a susceptible person, you will hear her complain of sore throat Vomiting and fever accompany the sore throat, and from twelve to thirty six hours later a bright red rash will appear on her neck and chest. This spreads rapidly over the whole body

mother should attempt to handle s case alone. Deafness may result from scarlet fever, and it is not on unknown plain of feeling chilly and may even thing to have a child die suddenly from have a real shaking chill. At night the kidney disease after it was thought he irritation increases and the child is had entirely recovered from an attack feverish and restless. Sneezing, a of scarlet fever.

If your child has the above symp toms send for a competent physician who will guide you through the pitfalls of this disease. He will tell you that it is contagious from the very beginning until all discharges from the nose, throat and ears have ceased usually a period of about five week Desquamation, or peeling, generally begins about the eighth day, but the flakes and scales are not now looked upon as likely to be contagious. The patient himself, and anything (clothing, toys, upholstery, etc.), which have been contaminated by discharge from his mucous membranes are the chief infecting agents. Hence, the importance of keeping the patient and anything which he has used from coming Usually after two or three days of in contact with other children.

the symptoms described the rash ap-pears. This shows first behind the out of school about six weeks, but this, ears, on the neck, or at the roots of of course, depends upon the cessation

Unless We Are Well We Cannot Be Perfectly Happy or Perfectly Useful

utes. Since there are certain

lown to the lower teeth and th

Brush the inside of teeth and gume

rapidly and lightly with an up-and

For the lower teeth, hold the brus

in your flat, with your thumb lying across the back of the handle, tipping

Lastly, brush the teeth with an in-

and-out stroke on the surfaces which

You should have your own brush

After brushing, the mouth should be thoroughly rinsed with clear water.

Toothpicks will not clean satisfac-torily between the teeth-it is much

the handle of the brush up and

lown rolling move

down rolling movement.

you use to chew the food.

and re-

Welfare of the Home

mportance of Good Footwear.

you must go through to clean them ef-fectively it is sensible to fall into the habit of doing them the same way every night. It is particularly at bed-time that they should receive the most thorough cleansing; if food is left in them over night, they will decay much more randely "Tell the women for me," said a pman doctor to the writer, "that but of the foot trouble and pain they affer comes from worn down or run-ver heels. The heels of their shoes ould be straightened every two

should be straightened every two weeks if necessary!" That would be "going some" for " some of us who live 'way out of bown with only bed roads and more or less indifferent or over-worked "menfolks" to connect us with repair shops. Oh, our poor feet! Oh, these faith-ful "understandings" that connect us with our earth-home! If we abused our even or our livers as we do our more rapidly. With the teeth nearly closed, place the brush inside the cheek on the upper gums, move in a circle, backward and ward and up, moving the brush gradu-ally toward the back teeth till all the teeth on that side have been brushed with a circular movement. This sho be done quickly and lightly, and peated several times. Brush both si our eyes or our livers as we do our

We are not all to blame, at first hand, for our crooked, twisted, dwarf-ed, half-helpless fest, on which we must stand and walk- and run many hours of each day, in order that the home roof may be kept intact over the heads of our dear ones. When our little feat housing a cross mains notice and the front teeth this way. There is nothing to be gained by brushing studght back and forth—that way you straight back and routh and he of a only touch the high spots. For the upper teeth, hold the brush with the bristles pointing upward, and the thumb on the back of the handle. little feet, lovely as rose petals nestled in the mother-hands that cherished them, those same mother-hands ignorantly cramped them into "pretty" shoes that were ill-shaped and 'too small. But they looked "cute" and-Baby's feet began to be deformed, that is de-formed, changed from the perfect chieffy the tuft on the end of the brush. Use a quick, light, up-and-down rolling mounts. foot form Mother Nature has ma Some of us had our feet spoiled by our parents' inability to buy correctly

shaped shoes for all the pairs of "understandings" that clustered ab the home hearth. Others of us, when we began to think about "style" forced

and should allow no one else to use it. Choose a smallish, rather stiff brush, with the bristles in tufts and our feet into cruel shoes, enduring pain for looks. Thousands upon thousands of women wear out their one any dentifrice which appeals to you. The gums, as well as the teeth them-selves, should be cleaned each time. shapely "best" shoes for every day housework and think they are econ omical and self-denying because they "grin and bear" nature's protest of

How to Use the Toothbrush.

better to use dental floss. Holding one end in each hand, rub it back and There is more to brushing the teeth than just wetting the brush, putting on a little tooth paste, giving the teeth al hasty "once over," and then rinsing off the paste. The teeth must forth between the teeth till all the food is loosened and removed, being very careful not to injure the gum tissues. Remember that four-fifths of the decay takes place either on the be brushed inside and outside and on the grinding surfaces. A thorough brushing will take at least two mintops or in between the teeth-the very parts that it is easiest to skight.

Salesmanship on the Farm.

After farmers have formed their rganizations for the handling of the main products of the farm there still remains the problem of selling the small products, which in the aggregate amount to many dollars each year. The location of the farm, the class of products produced and the demands the trade must be constantly studied. The rapidly increasing fas tidiousness of the consumers is mak ing the marketing problem as regards vegetables, fruits, eggs, poultry and dairy products more complex every year. So exacting have many dealers and consumers become in their de mands for better goods that the pro-ducers must study their fancies, analyze them and translate them, so that they can apply them to the mar-keting of what they have to sell. To further complicate the selling problem there are many consumers who buy food primarily upon the testimony of the eye, which is pleased with form and color, rather than odor and flavor. market demands, and have them for sale at such times as people want to buy. The more favorable the com-hide near the barry of the places to bination of these circumstances, the brighter are the chances of success Take to market only the choicest goods and find a special market for the poorest stuff, thus making a name for your products. One can not change people's tastes. When a certain pro-duct is popular in the market it will sell quicker and higher than even a better product with which the consumers are not acquainted. One must familiarize and practicalize the teachings of art and psychology in the growing and preparing of these small products of the farm.

special attention to the selling end of the business. We believe that the farm would have greater attractions for women and children if they were encouraged to look after the market-ing of the small products, and given a reasonable share of the proceed use as they see fit.

Rabbits Injure Brambles.

We have found that it pays to we have yound that it pays to watch the blackberry canes during the winter and note if rabbits begin visiting the patch and eating them off during the night just about at the snow line. Of course, the fruit is borne on the wood produced during the previous year and if canes are cut down the quantity of berries produced is correspondingly reduced. If the rabbit visits are noticed early

in the winter they can be trapped be fore much injury is done. It is diffi-cult to protect blackberries in the way trees are protected because of the large number of canes. A poultry fence around the patch is one of the A poultry best protections. By keeping down

with the exception of the face, which usually escapes. By this time you will be pretty sure you have a well-developed case of scarlet fever on your hands, and the complications on your hands, and the This usually comes on about ten complications and after-effects of this disease may be so serious that no somewhat drowsy and irritable. An

great. The quantity of ice needed depends upon the number of cows milked, and



22 .5.7 19.1 When a small quantity of ice is to semble flea-bites. Within twenty-four be harvested, but few tools are requir- hours the rash is spread over the body ed, the following list contains those and the child looks' very much bethese tools are all that are necessary; additional ones, such as the horse plow

35.1

30.1

26.3

23.4

ice harvesting.

the hair, over the forchead. It ap- of all discharges from the nose, throat, pears as small dark-red spots, which ears and any glands which may have are at first few and scattered and re- broken down in the course of the disease.

A frequent means of spreading ed, the following list contains those and the child looks very much be-actually needed for harvesting ice on speckled and swollen. In from five to children who do not feel really ill, and a small scale: Two ice-saws, one hand- seven days the rash begins to fade and perhaps complain of nothing but a marker, one pulley and rope, two pairs within three or four days more has mild sore throat. But these cases are of ice tongs, two ice hooks, one point-ed bar, and one straight-edge. While faint mottling of the skin. Just as apt to be followed by ear and just as apt to be followed by ear and kidney troubles. Unfortunately, too, It is not the purpose of this article

to describe the various symptoms, a very severe case may be contracted additional ones, such as the horse plow to describe the various symptoms, a very better did one, and the mother er, and a calking bar, are convenient, ent cases of measles. Those who de-who sends her child to school with a and will help to expedite the work of sire such information should write to sore throat runs the risk of causing Dr. J. J. Middleton, Provincial Board some other child to suffer great harm Health, Parliament Bidgs., Toronto. and perhaps death. Keep your child at Careful studies have shown that the home when he has a sore throat. of Health, Parliament Bldgs., Toronto

ourr

When new cockerels are brough into a flock there is often considerable fighting. This can be avoided by purchasing all of the cockerels from the same flock and disposing of the old birds. Or hatching eggs can be purchased and the cockerels of the new blood raised with the home stock. The blood raised with the home stock. The per acre. At the same time the in-toe punch or leg bands will enable the owner to distinguish them. On free exceed one-half-ton. Such increases range the poorest fighters have a good chance to escape from the victors. But in a small laying-house the losers may be seriously injured by being driven about and frightened from the feed Loppers.

Nest eggs are not necessary to Nest eggs are not necessary to is as follows: make hens lay, but sometimes they are of value in teaching the pullets 3-8-3 fertilizer there was an increase to lay in the proper place. This is especially true when trapnesting is of 3-8-3 there was an increase of five done and it is important to have near- tons per acre. The corn was well ly all the eggs laid in the nests and very few on the floor. Pullets are encouraged to lay in the nests and not on the floor if they always see a china egg in the nests. Eggs laid in the litter are often covered with straw and lost. They may be broken and eaten and help start the egg-eating habit.



Long time experiments in corn growing sections show material in-creases to be possible if fertilizer of high grade is applied in sufficient quantities. Four leading American Agricultural Experiment Station have shown it possible to increase corn yields by an average of 21.7 bushels if made on the average Ontario farm would be of enormous value. An interesting test in this regard was car-

close to the town of Winchester by Mr. A. Christie, the report of which is as follows:

ripened and well eared. An earlier report records the fact that "the beneficial effect of fertilizars could be distinctly noted. Each fertilized plot was taller and of a darker green color/

Five new school districts have bee formed in Saskatchewan.

There should be a good salesman on every farm if the best prices are to be obtained for the products. If the owner is not a good salesman, the wife or one of the children should be encouraged to look after the selling end of the business. One scarcely

realizes how many small things there are about the farm that can be turned into money, things which in themselves do not amount to so much, but which amount to a tidy sum in the aggregate. A young lady who had succeeded in paying off hundreds of dollars of debts left by her dead father told the writer that she had done it by having something to sell every week in the year, no matter how little it was.

The question of marketing the many small products of the farm is a serious one. Unless there is a good salesman

it can hardly be profitable, and if the salesman is an able-bodied man, whose being away from the farm means neg-

lect of the larger work, it is decidedly an open question. But such products as fruit, vegetables, poultry, eggs and dairy products can be profitably mar-keted by women and children. As they gradually become accustomed to the business they will be able to find a

cial success on the farm have devoted the loss.

will be less danger from the pests. We have noticed that the rabbits do

not eat red raspberry canes on our farm, while they will attack black berry canes but a few feet away. This seems to prove that the wild animals have considerable sense of taste and like to select their feed from among the best-liked plants.

Field mice do not seem to injure any of our berry canes although they have injured young trees in the near vicinity. If there is danger of the canes being injured by pests it pays to remove all of the old wood after the berry harvest and leave the new wood until the next spring. Then the canes can be thinned out and enough left to produce a profitable crop.

Now is the Time to-Be neighborly. Mend harness. Make snow-plow Study seed catalogues. Place orders for fertilizers. Get your bean-poles ready. Join the Better Sires campaign Get the ice house in shape for ice. Burn out the chimneys on a wet day. Keep the wood box filled to overlowing.

Co-operate with your neighbor in a business way.

Remove snow from currant and other shrub bushes to prevent breaking.

Cut down the grain for horses and force exercise so they won't become soft.

Wrap small trees with wood veneer heavy building paper or screen wire. Plan a windbreak for orchard, but don't plant red cedars near an apple orchard.

The care given to a colt during the profitable market for many things first year of its life largely decides which could be profitably produced on what sort of a horse he will be. He the farm. Farming as a business is should never be allowed to have even made up of little things, and those who have achieved the greatest finan-if once stunted he will never make up



Notice Bill's Bank Book

Bill and Dan worked the same amount of land and had the same labor and expense, except that Bill used Gunns "Shur Gain" fertilizer. They both planted good seed. Bill's fertilized crop came up first, looked better during the growing period, matured earlier, was har-wested first, produced a better yield and brought a bigger price on the early market.

The extra yield obtained by using "Shur Gain" fertilizer made the deference in the bank account.

Gupns "Shur Gain" fertilizer is sold throughout Ontario by repre-potatives who are farmers and are using "Bhur Gain" fertilizer bernselven, Every farm is a factory keep your "factory" running in maximum capacity.

GUNNS LIMITED, West Toronto. If there is not a "Shar Gain" représentative neur you, worte na regarding an aganag.

Martin Carlos Andreas (Martin Carlos Andreas)

ried on last summer in Dundas County,