

Any farmer can get advice about the kind of trees for his woodlot which are best suited to the district in which he lives by writing to the

Dominion or Provincial Forest Service.

by large numbers of trees dying. The trees die gradually from the top down. Studies by officers of the Division of Entomology, Dominion Department of Agriculture, show that the trees in question are infested by the bronze birch borer which generally prefers to work on old and weakened trees. The immediate problem, therefore, is to cut as much as possible of the injured birch before it dies, taking the most valuable and the most severely injured trees or stands first. It will often be found that trees which appear dead in the distance are still fit for salvage.. The log is fit for veneer or other uses until the stem begins to die and the "shot-hole borers" start to make holes directly into the wood. Just as soon as this happens, the birch is fit only for fuel and soon loses its value for any purpose.

Efforts are being made by the

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Although Foot and Mouth disease of live stock has never occurred in Canada, this has been due principally to the stringent precautions adopted by the Canadian Government through the Health of Animals Division, Dominion Department of Agriculture. The means of infection, however, particularly in time of war, are so many and the spread of the disease so rapid and disastrous that there is a greater need for farmers and stockowners to exercise special care and to know what to do in the case of suspected outbreak. To this end Dr. A. E. Cameron, Veterinary Director of Canada, has written a bulletin on the subject, No 737 entitled "Foot and Mouth Disease", a copy of which may be obtained by writing to the Publicity and Extension Division of the Department at Ottawa.

In spite of experienced officials veterinarians, and others whose work is concerned with excluding serious diseases from Canada, constant danger exists of infection gaining entrance by obscure means. Foot and Mouth disease is not confined to cattle only. It attacks swine, sheep, and other ruminants. There is no conclusive evidence that horses and poultry contract the disease, but (as showing the scrupulous care taken in Canada of excluding any disease and especially of Foot and Mouth, the feet of horses or other animals allowed entry by special permit are carefully cleaned and disinfected before the animals are allowed to land in Canada, and any bedding or fodder accompanying them is burned.

No ruminant or swine is allowed to be imported from districts or countries in which Foot and Mouth disease exists. Also animal products, such as, hides, wool, horns, hoofs, bones, and the flesh of food animals as well as manure, hay, straw, fodder used in connection with animals from those countries, are refused entry. In cases where fodder has been used for packing merchandise, entry may be allowed when accompanied by a certificate signed by an authorized official. Clothes and boots of immigrants from farms in infected countries are examined, also small packages by mail or by hand in which hay or straw may be used for packing. Migratory birds carrying contaminated dirt may be a cause of infection. Full details of the disease, with recommendations to farmers and stockowners, are given in the bulletin.

To obtain the maximum amount of feed nutrients, hay should be cut at the proper stage of maturity. Cutting at comparatively early stages of maturity is recommended, and where there is a shortage of labour it should be very early if the cutting is to be completed before the last part of the hay crop has become over-ripe, says P. O. Ripley, Field Husbandry Division, Central Experimental Farm, Ottawa. Tests and experiments have disclosed that the yield of dry matter in alfalfa increases consistently from the time the buds appear on the crop until it is about 50 per cent in bloom. The protein in the crop decreases considerably as the plants mature. It has been found that alfalfa cut when the buds were appearing contained about 24.7 per cent protein, and in full bloom, only about 20 per cent. On the other hand, fibre which is comparatively indigestible, increases from about 25 per cent at the time the buds are appearing to 30 per cent when in full bloom. Calcium decreases from 1.88 per cent at buds appearing stage to 1.73

at full bloom. The phosphorus content decreases from 37 per cent at buds appearing to 24 per cent at full bloom. Similarly, red clover cut in the bud stage contains about 17.8 per cent of protein, and in approximately full bloom only 15.4 per cent. The phosphorus decreases from .32 per cent in the bud stage to about .25 per cent when in full bloom. Timothy just after heading contains 10.8 per cent protein, and when in full bloom only 7.5 per cent. The phosphorus in timothy when just headed out is approximately 25 per cent, and in full bloom about 18 per cent.

These figures indicate the value of early cutting of the hay crop, and the general recommendation is that alfalfa should be cut when as nearly one-tenth in bloom as possible; red clover, just before full bloom; timothy, as soon as the crop is completely headed, and before there is too much bloom on the plant. Sweet clover should be cut for hay just as the buds are appearing.

Now is the time to get busy to control the potato beetle. No control means no potatoes and these are times when such a valuable food product as potatoes should not be wasted. Moreover after going to the expense of buying the seed and the energy put into the planting, it would be poor business to sacrifice the crop to the destructive potato beetle, says Alan G. Dustan, in charge of Vegetable Insect Investigations, Dominion Department of Agriculture.

The best and cheapest poison to use, he says, is calcium arsenate, at the rate of 1-12 to 2 pounds in 40 gallons of Bordeaux mixture (copper sulphate 4 lb., lime 4 lb., water 40 gallons). If the poison is used alone in water, add 2 to 3 pounds of hydrated lime to each 40 gallons. Should arsenate of lead or Paris green be preferred as a poison, 2 to 3 pounds of the former and 1-2 to 1 pound of the latter may be substituted for each 40 gallon barrel of spray.

Growers who prefer to apply the poison in powder form should use a dust composed of 1 part of calcium arsenate to 8 parts of hydrated lime. In dusting, best results will be secured if the application is made in the early morning, or late evening, when the vines are wet with dew and when the air is calm.

In spraying potatoes, the poison should always be mixed with Bordeaux as this material is not only a valuable fungicide but repels the attack of such destructive insects as flea beetles and leafhoppers. Two or three applications in a season should give sufficient protection from all insects, when applied thoroughly and at a time when the new damage first becomes evident in each case. In spraying cover both the upper and lower surfaces of the leaves and use plenty of material; when the plants are small 50 to 75 gallons per acre and when fully grown 100 to 120 gallons is not too much at each application.

When you wish to know what the weather is going to be, declares a certain authority, go out and select the smallest cloud you see. Keep your eye on it, and if it decreases and disappears it shows a state of the air that is sure to be followed by fine weather; but if it increases and takes you overcoat with you it signifies a storm. The clouds that are going away from home, for a long while, are sure to bring fine weather is not far off. The reason is this: When the air is becoming charged with electricity you will see every cloud attracting all lesser ones toward it until it gathers into a shower, and, on the contrary, when the fluid is passing off or dissolving itself, then a large cloud will be seen breaking into pieces and dissolving.

Let me but do my work from day
to day,
In field or forest—at the desk or
loom,
In roaring market place or tranquil
room;
Let me but find it in my heart to
saw,
When vagrant wishes beckon me
astray:
"This is my work; my blessing,
not my doom;
Of all who live, I am the one by
whom
This work can best be done in the
right way."—Henry Van Dyke

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Kadra Maysi
At dawn they changed the shore
patrol
I heard the bombers, far away,
Converging. But, I also heard
The song with which a mockingbird
Salutes the breaking day.

He sang, Against the saffron dawn,
His music rose and swelled and
spread
In silver fans—until its sound
Was merged and completely drowned
By motors overhead.

I lay and heard the bombers pass
And watched the frightened pigeons fly
From roofs. And then I heard a thrill
The mocking bird was singing still
A rival to defy.

He had not left the Banksia rose
Which holds his nest. He did not
cease
To sing. He sang more loud and high
In challenge to the roaring sky—
His hymn of joy and peace.

I keep nothing in my hand. All that I have, all that I gain, that is for the Church and for souls. If I live to be eighty I shall always be poor.—The Little Flower.

Think less, my friend,
Of what you get;
Think more of what you'll give,
And then with joy
You shall relate
This is the way to live.

It is a child's sweet face that is needed sometimes to dispel our heartaches. Its purity and sweetness permeate our natures and brighten our hopes.

Devout yet cheerful, active yet resigned,
Grant me, like thee whose heart knew
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