



The **LANDSCAPE**
DEPARTMENT
BY
CUSHING SMITH, M.L.A.



THE SORROWS OF GARDENING

Like most real achievements in life there can be no progress without some set-backs, without some obstacles in our path to spur us on, for having once started in the joys of having flowers we find insect enemies whose life cycle needs watchful attention. We early learn that gardening is an exact science as well as an art, which demands knowledge not only of soils, plants, care, and cultivation, but of entomology.

Fungous diseases also attack our plants, but disease requires a little different treatment than the eating or sucking insects. While the diseases and insects are many, with due care and attention paid to properly applied remedies the ravages can easily be checked and the plants retain their health.

The fungi are usually distinguished by the marks or spots on the leaves or stems, and by the shriveling or death of the parts affected. Inasmuch as the fungi are parasites they cling to and grow into the live leaves, and if not checked will always cause death. An example of fungous is the rust with which most of us are familiar on hollyhock leaves, which gives a reddish tinge to the underside of the leaves.

Among the insects damaging foliage and flowers are (1) those which eat the leaves, and (2) those which suck the juices. For the former a poison if sprayed on the leaves will kill the enemy, and on the latter will be sprayed the miscible oils or kerosene emulsion which covers the body of the insect and thus destroys them.

The best general fungicide is Bordeaux mixture, which is made up of copper sulfate and lime, and which can be purchased ready-mixed with only water to add to dilute it to the proper consistency. This when used on ornamental shrubs discolors the foliage badly, and it might be better on that account to use ammoniacal copper solution.

Among the sprays for leaf-eating insects the best known and most extensively used is arsenate of lead which can be applied in a strong mixture. It is used in combatting the elm-leaf beetle and other insects hard to poison. This poison comes in the form of either a paste or a powder. For currants, white hellebore either dusted or sprayed on the leaves will control.

A kerosene emulsion will kill the plant lice with which many of our tender plants are infested, and there are now on the market some miscible oils which act in themselves in much the same way, or which may be added to other poisonous sprays to make them cover the leaves and stick to the foliage better.

There is no more discouraging enemy than the borers which once started in trees such as the white birch will cause them to die at the top. The only way to kill these borers is to cut down the tree and burn it to prevent and check their spread to other trees nearby.

If fruit trees are on your lot they will need protection from many enemies, and three or four sprays seem essential each year. The codlin moth can be controlled by spraying just after the blossoms fall with Paris green or arsenate of lead, and again in seven or ten days later. Burlap bands on the trunk will catch many caterpillars and they may be killed during July. The oyster shell scale and the San Jose scale also attack hawthorns and other fruit trees, and often through the thorn-apples on the edge of the woodland an entire orchard will be infected. Kerosene emulsion or lime sulphur wash if applied in the fall and in the early spring will eventually destroy these insects which seem to spread with great rapidity.

The little red spider on the under side of the leaves in dry weather may be destroyed by syringing off with a fine hose nozzle. The same remedy may be applied to most of the diseases of roses. The green plant lice which work on the buds and the yellow leaf-hoppers which feed on the leaves can be destroyed by clear water or by whale-oil soap or kerosene emulsion. If water is

used it should be applied both night and morning. The rose-chaffer or beetle should be hand-picked or knocked off into a pan of kerosene.

Due to the more or less technical character of this subject it is well for the amateur gardener to employ someone whose experience fits him to give advice and who has proper equipment to apply the various sprays. New treatments for most pests are being constantly evolved and introduced by our state departments and by the experimental stations at the state university at Urbana. These agencies are always glad to cooperate with you in sending bulletins, and making recommendations for the control of various diseases and insect enemies.

Finally, remember that the control of insects and of fungous diseases rests with you or with your gardener, and that immediate remedies must be applied to check the spread of any of the enemies mentioned.

CUSHING SMITH,
Landscape Architect.

**NEW TOLOFF STUDIOS
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paring for sittings. The work rooms are in the rear.

The arrangements are perfect in every detail. The well chosen furnishings and pleasant atmosphere make the studio one of rare distinction. Glare, crudity and lack of the artistic so apparent in the studio of old have gone and in the delightful environment built up by Mr. Toloff the sitter relaxes, a sense of satisfaction and pleasure pervades, and there comes a feeling of ease which makes unnecessary the old time "smile" plese.

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