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Leaf scorching

Department of Agriculture, Western Australia

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to determine the longevity of sclerotia in trenched soil.

None of the remaining measures gave satisfactory control of the disease although some reduced its incidence significantly. Hand weeding appeared to be of value but was only necessary on untrrenched ground.

In the case of P.C.N.B., the time of its first application to the flowering crop, seemed to be of considerable importance. For instance, in experiments 2 and 5, some control was obtained by using it just as the apothecia began to emerge in great numbers. However, it had little effect upon disease incidence when the first application was made approximately one week after this stage (Experiment 3).

Of the spray materials evaluated, none gave sufficient control to warrant its recommendation.

ACKNOWLEDGMENTS

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REFERENCES

Brooks, A. N., 1940.—Abs. Phytopath. 30: 703.

LEAF SCORCHING

By PLANT PATHOLOGY BRANCH

DURING the summer months, leaves of many plants develop browning and scorching which progresses inwards from the leaf margin or downwards from the leaf tip. The affected parts become dry and brittle and may break away from the remaining green areas. Ornamental trees, shrubs and other plants, certain orchard trees and in fact a large number of species may be affected. Two plants which are very susceptible to this type of injury and are rarely seen without it are the loquat tree and the butterfly tree (Bauhinia).

CAUSES

The causes of leaf scorch are many and varied but generally it results from the failure of sufficient water and nutrients to reach the leaves concerned. This may seem to suggest that the plants have been underwatered. Often that is true but not always, because it sometimes happens that with abundant water supplies, scorching may occur and it is then that one or more of the following factors may have been responsible.

(1) Dry hot weather. This is common in summer in Western Australia and evaporation from leaves is often so rapid that the roots cannot replace the moisture loss quickly enough.

(2) Exposed windy situations. Constant exposure to drying winds causes excessive moisture loss from plants.

(3) Fertiliser “burn.” This is due to excessive amounts of fertiliser, especially if placed too close to the plant.

(4) Salt. Salty soils aggravate leaf scorching as also does the use of water with a high salt content.

(5) Inadequate nutrition. “Complete” fertiliser mixtures, e.g., containing sulphate of ammonia, superphosphate and potash are better than those containing only one of these components. Potash deficiency, for example often causes leaf scorch.

(6) Root injury due to implements.

(7) Poor root system. This may result from waterlogging.

(8) Root parasites.
CONTROL

(1) Liberal supplies of water are necessary in hot, dry weather.

(2) Situations sheltered from prevailing winds are preferred. Otherwise wind breaks should be provided.

(3) Artificial fertilisers should not be applied in excessive amounts or placed too close to the base of plants.

(4) Avoid soils or water with too high a salt content.

(5) Provide adequate nutrition by using "complete" fertilisers. Liberal supplies of potash in the mixture are often an advantage.

(6) Avoid unnecessary root injury with cultivating implements.

(7) Provide adequate drainage to prevent waterlogging.

(8) If fungi, eelworms or other root parasites are suspected, a special examination may have to be made before appropriate steps can be taken to correct the condition.
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