Appl. Ent. & Phytopath.
Vol. 57. Nos : 1 & 2, Feb. 1990

Summary

WATER SENSITIVE PAPERS AND THEIR USE IN SPRAYER CALIBRATION IN IRAN

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Correct calibration of sprayer is considered very important in pest, weed and fungus control programme especially when using aircraft. This results in better control and less number of sprayings. It determines the size and density (No. /Cm^2) of droplets. It also shows how droplets may cover the surface of the sprayed plants. The chemical indicator BROMOPHENOL BLUE was used in the preparation of this water sensitive paper. It is a rigid paper with a coated surface with the above reagent. This paper is yellow and will be stained blue when the droplets fall on it. Just place some of the paper in the target area before spraying and collect it as soon as it becomes dry. Then check the droplet pattern either visually or by counting the number of droplets. Water sensitive paper can be used for checking spray distribution and droplet density from aerial and ground spray applications.

Overdosing would be a waste of material, furthermore, with herbicides it might result in crop damage and claims. and with insecticides underdosing might not kill the pest. So checking the spray pattern by using water sensitive paper when spraying is highly advsied .

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