

**INVESTIGATION ON COMPARATIVE EFFECTS OF SOME COTTON DEFOLIANTS ON  
THE POPULATION OF WHITE FLY**

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**Summary**

Increasing tendency to apply improved machines in harvesting the cotton yields, positive effects of defliants in shortening the period of harvest and prevention the decaying of the lower bolls especially at the end of the season and also the population reduction of the pests paticularly the sucking ones because of the precocious defoliation encouraged us to evaluate some other defoliant in comparison with Def, the only defoliant used nowadays. In this regard, the defoliant, Thidiazuron (Dropp %50 WP) and Dimethipin (Harvade 25F) have been tested along with Def in Semnan, Gorgan and Khorassan during two consecutive years. At the end the treatment (Def. %70 EC + Dropp %50 WP) at the rate of (2 L+ 200g) per hectare was found as the most effective defoliant in cotton plantation.

**Reference**

- MAZAHERI, A. and M. B. MADDAH 1968. Studies on the effectiveness of some cotton defoliant. Weeds Research, Lab. Varamin, Iran (unqwllished).
- MIRKAMALI, H. 1971. Primary fields trials on the time of application in cotton plantation. Weeds Research, Lal. Varamin, Iran. (unqwllishad).
- MEISTER, R. T., G. L. BERG, C. SINE, M. S. BOETTGER, T. QEVER, G. SCHILLING and E. D. WEIL 1985. Weed control Manual and Herbicide Guide. Ag. Consultant and Fieldman. 96-104. Willoughly, OH. 44094. USDA.

SEVERINO, F. A. and G. F. CORKINS 1983. An ultra low volume formulation of Dimethipin for cotton defoliant. Uniroyal Chemical, 74 Amity Road, Bethany Connecticut 10 th International Congress of Plant Protection 597. Brighthon. UK.

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