

B-19 Effect of some selected insecticides and Gardenia bud extract against White flies, *Bemisia tabaci* (Gennadius) on brinjal

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The effectiveness of 4 synthetic insecticides (Dimethoate, Applaud, Decis, and Admire SL 200) and Gardenia bud extract (lakada) was studied against brinjal white fly *Bemisia tabaci* in the Agriculture Biology Laboratory, Eastern University.

It was found that all the insecticides and botanical Gardenia significantly increased ($p < 0.05$) the mortality of brinjal whitefly *Bemisia tabaci* over control. The insecticide Admire SL 200 showed significantly ($p < 0.05$) higher cumulative mortality of 83% compared to other insecticides. Gardenia bud extract was very effective against brinjal whitefly compared to Dimethoate, Decis, and Appaud. Therefore it could be considered as a suitable botanical insecticide to control *B. tabaci*.

It was also found that the recommended insecticides such as Dimethoate, Decis and Applaud failed to show significant mortality of brinjal whitefly *B. tabaci*.