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### Effect of some insecticides and botanicals on predatory ladybirds (Coleoptera:Coccinellidae) in cotton

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The study was carried out at Agriculture College Farm, ANCA, Warora to evaluate the effect of some insecticides & botanicals on pests of cotton & their subsequent effects on natural enemies like Predatory ladybird beetles. The departmental research trials were conducted during the year 2008-2009 and 2009-2010. The plot size was 10 × 5 m., with three replications in Randomized Block Design. The observations were recorded on 10 randomly selected plants in each plot. The numbers of predatory lady bird beetles on aphids in cotton field were counted and average was calculated. Among the different treatments NSKE at 5% (4.70 LBB/ plant), Neemark 5% (4.60 LBB/ plant), Dashparni ark 5% (4.50 LBB/ plant), Emamectin benzoate 5 SG (3.70 LBB/ plant) were observed. The predatory ladybird beetles population in insecticidal plots was found as Dimethoate 30 EC 0.03% (1.5 LBB/ plant), Acephate 75% sp 0.03% (0.70 LBB/ plant), Phosphamidon 40 Ec at 0.04% (0.60 LBB/ plant), Quinalphos 1.5% dust (0.50 LBB/ plant), Methyl parathion 2% dust (0.40 LBB/ plant). Results reveal that significantly more number of predatory ladybird beetles was observed in the plots with botanicals than insecticidal treatments.

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