

Incidence of leafhopper, *Amrasca devastans* (Distant) on Cotton under High Density Planting System (HDPS)

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ABSTRACT

An investigation was carried out to know the incidence and development of leafhopper, *Amrasca devastans* (Distant) under High Density Planting Systems (HDPS) of cotton during 2015 -2016 at the Regional Agricultural Research Station, Lam, Guntur, Andhra Pradesh. The results indicated that the plant density exerted positive affect on the incidence and development of cotton leafhopper, *Amrasca devastans* (Distant). The leafhopper population ranged from 1.60 to 18.27 per three leaves during the crop growth period. The lowest population of 1.60 leafhoppers per three leaves was recorded in the plots with 14814 plants ha⁻¹ at 93 Days After Sowing (DAS) and highest population of 18.27 leafhoppers per three leaves was recorded in the treatment where plant density was 111111 plants ha⁻¹ (HDPS) at 45 DAS. Plant density has affect on the overall mean population of leafhoppers as it was increased from 5.03 to 6.97 leafhoppers per three leaves as plant density increased from 14,814 plants ha⁻¹ to 1,11,110 plants ha⁻¹.

Key words: *Cotton, HDPS, Incidence, Leafhopper.*