

# Evaluation of Different Neem Products Against *Aproaerema modicella* (Deventer) and *Spodoptera litura* (Fabricius) in Groundnut

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## ABSTRACT

Field studies were carried out to evaluate six different neem derivatives against major defoliator pests infesting groundnut viz., leaf miner, *Aproaerema modicella* (Deventer) and tobacco caterpillar, *Spodoptera litura* (Fabricius) during Rabi 2011-12 in comparison with an insecticidal check, Quinalphos 25EC. The results revealed that Quinalphos 25EC was found to be significantly superior to all other tested neem derivatives in suppressing *A. modicella* and *S. litura* larval population with a maximum mean per cent larval population reduction of 66.91 and 57.31, respectively over untreated check. Neem Seed Kernel Extract (NSKE) 5% was found to be the effective treatment among the different neem derivatives tested in suppressing the larval population of *A. modicella* (43.17%) followed by neemazal 10000ppm (33.23%), neem oil (31.56%), neem leaf extract 5% (31.24%) and nivaar 1500ppm (30.20%), respectively. Whereas, NSKE 5% was found to be superior in bringing down the larval population of *S. litura* (42.25%) followed by neem oil (31.87%), neem leaf extract 5% (28.85%), neemazal 10000ppm (27.26%) and nivaar 1500ppm (25.26%), respectively.

**Key words :** Groundnut, Leaf miner, Tobacco caterpillar, Neem derivatives.