

Effect of non-edible oils on population buildup of acarid mite, *Tyrophagus putrescentiae* Schrank on stored groundnut

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ABSTRACT

The effects of different non-edibles oils were tested in terms of population build-up of acarid mite, *T. putrescentiae* at 30, 60 and 90 days interval. The mite population, 30 days after treatment was noticed in control (331.00 mites). In *Neem* oil treated groundnut at 0.50 ml/kg, 1.00 ml/kg and 2.00 ml/kg concentrations, and the population was 164.33, 103.33 and 85.67 mites. Further, 60 days after treatment, the maximum mite population was noticed in case of untreated control (814.87 mites). In *Neem* oil and eucalyptus oil treated groundnut seeds at 0.50 ml/kg, 1.00 ml/kg and 2.00 ml/kg concentration, the mite population was zero. Likewise, 90 days after mixing of different oils in groundnut seeds, the maximum mite population was recorded in control (1055.67 mites). In *Neem* oil treated groundnut seeds, the mite population was zero and it was also zero in case of eucalyptus oil treated groundnut seeds at all the three concentrations. Among all the non-edible oils treated groundnut seeds, the mite population was highest in alsii oil at 0.50 ml/kg concentration (867.17 mites).

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