

RESEARCH ARTICLE :

Monitoring of pesticide residues in brinjal samples collected from three different markets of Warangal district - 2015

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SUMMARY : The brinjal samples were collected from three different vegetable markets viz., Jangaon, Raghunathpally and Hanmakonda of Warangal district and analyzed for insecticide residues following the validated QuEChERS method, it was found that except methyl parathion all other organophosphate insecticides i.e., dimethoate, malathion, chlorpyrifos, profenophos, quinalphos and ethion were detected in either of the three markets or in all the three markets and similarly among synthetic pyrethroids except fenpropathrin and beta-cyfluthrin all other insecticides like lambda cyhalothrin, cypermethrin, deltamethrin and fenvalerate were detected in either of the three markets or in all the three markets. The common insecticides that were found in the brinjal samples of all the three markets are chlorpyrifos, profenophos, ethion, lambda cyhalothrin and cypermethrin and so these insecticides except chlorpyrifos were chosen for the decontamination studies of the crop that has been raised in students' farm as per good agricultural practices of PJTSAU.

KEY WORDS :

Monitoring,
Vegetable markets,
Brinjal samples,
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