

Competitive studies of insecticides for the control of sucking pests in urdbean (*Vigna mungo*) in relation to yield

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ARTICLE INFO

Received : 01.09.2015

Revised : 17.09.2015

Accepted : 29.09.2015

KEY WORDS :

Vigna mungo, A set of pesticides,
Sprayer, Hand glass, Weight box

ABSTRACT

A study was conducted during the *Kharif* season of 2012 and 2013 for knowing the competitive study of insecticides as foliar application for the control of sucking pests such as jassid, thrips and whitefly in urdbean in relation to yield gap. Population of thrips, jassid and white fly were recorded with crop age and found that the population of all the three pest increased with increase the crop age up to reproductive stage 4.06 jassid/6 leaves, 6.32/6 leaves thrips and 9.54 whitefly/6 plants, respectively at 48 days after sowing. Reproductive stage was more vulnerable than vegetative and maturity stage. Among the treatments against jassid, imidacloprid was found more effective (1.14 jassid/6 leaves) Followed by thiamethoxam (1.15) and acetamiprid (2.24) in the year 2012. However same result was noted in the year 2013 in case of above used insecticides. Imidacloprid significantly showed better effect to control the thrips (1.34 and 0.95/6 leaves in 2012 and 2013, respectively). In case of whiteflies, thiamethoxam gave significantly good control (2.11 in 2012 and 2.69 in 2013/6 plants) followed by imidacloprid and acetamiprid during both the seasons. Highest population of all the three sucking pests was noted in control plot. Significantly maximum yield in 2012 was found in imidacloprid treated plot (11.33q/ha) followed by thiamethaxam (10.88q/ha) and acetamiprid (10.77q/ha) in comparison to trizophos (9.55q/ha) and monocrotophos (8.55q/ha). However, malathian and chloropyriphos had least effect on increase the yield. Only 5.22q/ha yield was found in control plot. In the year 2013, thiamehaxam gave better results in increasing the yield (11.93q/ha) than other tested insecticides.

How to view point the article : Sharma, Shlokeshwar R. and Singh, Dhermendra Prakash (2015). Competitive studies of insecticides for the control of sucking pests in urdbean (*Vigna mungo*) in relation to yield. *Internat. J. Plant Protec.*, **8**(2) : 393-396.

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