SHORT COMMUNICATION

PROBING BEHAVIOUR OF *NILAPARVATA LUGENS* (STAL.) ON RICE PLANT AS INFLUENCED BY POTASH APPLICATION

Swati Sharma,[1] Ashish Kumar Sharma[2] and Damini Thawait[3]

[1] Department Of Entomology IGKV, Raipur, [2] Department Of Entomology IGKV, Raipur
[3] Department Of Agronomy IGKV, Raipur
Email: sharmaswati2212@gmail.com

Abstract: Rice is an important cereal crop of the world which is known to be attacked by several insect pest during its different development stages out of these brown plant hopper *(Nilaparvata.lugens*) is an important insect pest of rice. The main approach for the management of this pest has been through the chemical methods which has resulted several problems; therefore the fertilizer components affecting the biophysical parameters of the host ultimately influencing the probing behaviour of BPH (*N.lugens*) was thrust point of investigation. In present study the major components of fertilizer viz., nitrogen was tested at 0, 40, 60, 100, 160, 220, 280, 340, 400 and 460 kg/ha and its impact on the probing behaviour of *N.lugens* was recorded. There was significant negative correlationship (r =0.99) between probe marks and nitrogen doses. The regression equations for probe marks in relation to different nitrogen levels applied was = 0.0324x + 4.9589.

Keywords: *Nilaparvata lugens*, paddy, probing behaviour, brown plant hopper

REFERANCES

Anonymous, (2003). Policies need to be farmers friendly. The Hindu survey of Indian Agriculture pp. 5-6.

Gangrade, G.A., Kaushik, U.K. Patidar, G.L., Shukla, B.C., Shrivastava, S.K., Deshmukh, P.D. and Pophaly, D.J. (1978). Insect-pest of summer paddy in India. *Int. Rice Res. Newsl*. 3(6): 16.

Kalode, M.B. (1974). Recent changes in relative pest status of rice insects and influenced by cultural, ecological and genetic factors. Paper presented at the international rice conference held at the IRRI, Manila, Philippines.

Kalode, M.B. (1976). Brown plant hopper rice and its control. *Indian Frmg*. 27 (5): 3-5.

Katyayan, Arun, (2004). Fundamentals of agriculture, kushal publications and distributors, Ed. III, pp 207-240.

Naito, A. (1964). Methods of detecting feeding mark of leaf and plant hopper and its application. *Plant Prot. Japan 18(12): 482-484*.

Oka, I.N. (1977). Cultural control of brown plant hopper, paper presented at the Brown plant hopper symposium held at the IRRI. Manila, Philippines 18-22 April 1977. pp. 1-28.