

INTERACTION BETWEEN MUNGBEAN, YELLOW MOSAIC VIRUS AND ROOT-KNOT NEMATODE ON GROWTH OF MUNGBEAN PLANTS

S. VARSHNEY, R.C. PANDEY, R.K. PANDAY, B.K. DWIVEDI AND V. SINGH*

Bioved Research and Communication Center, 103/42 M.L.N. Road, Allahabad, India

**Department of Genetics & Plant Breeding, Ch. Charan Singh University, Meerut, India*

Abstract

An experiment was conducted at Bioved Research Farm during 2003 to study the effect of interaction between mungbean yellow mosaic virus and *Meloidogyne incognita* on the growth of mungbean plants. The growth parameters viz., shoot length, root length, number of branches, Number of leaves, number of pods, rhizobium nodules, fresh shoot weight, fresh root weight, dry shoot weight, dry root weight, yield were reduced more in presence of both the pathogens than individual. Plant growth parameters, in combined inoculated plants were significantly different from the control and with the treatment with nematodes alone. However, they were at *par* with the treatment with virus alone. Number of galls, egg-masses and total nematode population in soil and roots were more, where plants were inoculated with nematode alone than that of combined inoculation, though they were at *par*. Maximum multiplication rate of nematode was recorded with nematode alone.