ABSTRACT

During Kharif season in the year 2004 an experiment was carried out to know the effects of various plants growth regulators on sex expression and yield in sponge gourd Cv. ‘Pusa Chikni’. Two sprays of plant growth regulators were done at 2nd and 4th leaf stages. The lowest number of male flowers (230.0), the highest number of female flowers (44.0) and lowest male: female sex ratio (1:5.26) was observed in Ethrel 300 ppm treatment. The yield characters such as fruit length (25.95 cm) and diameter (16.50 cm) were observed maximum in treatment Ethrel 300 ppm. Similarly, maximum fruit yield 23.90 t/ha was also observed in Ethrel 300 ppm.

Key words: Bio-regulators, Etheral, CCC, Sex reversion