



Research Paper

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Effect of bioregulators and cow's urine on flower production in jasmine (*Jasminum sambac*)

■ A. SOBHANA

Author for correspondence :

A. SOBHANA

Cashew Research Station (K.A.U.),

Madakkathara, THRISSUR

(KERALA) INDIA

Email : sobhakau@yahoo.co.in

ABSTRACT : Jasmine buds and blossoms are used for preparing garlands, decorative purposes, religious offerings and perfumery industry. There is high demand for the flower in Kerala especially during festival seasons and special occasions and “bush jasmine” (*Jasminum sambac*) is grown by many farmers in the state. Usually flower production is highly reduced during cooler months, leading to a hike in the price which can be termed as “off season” in jasmine cultivation. Hence, any method to enhance the flower production will be much useful to farmers. A trial was conducted at Cashew Research Station, Kerala Agricultural University, Madakkathara, Thrissur during 2008 - 2011 to enhance flower production in bush jasmine, using bioregulators and cow's urine. One year old plants grown in pots were sprayed with paclobutrazol, cycocel, GA₃ and cow's urine at various concentrations at monthly intervals during February - May and observations on vegetative and floral characters were recorded. The study revealed that vegetative and floral characters were significantly improved by the application of GA₃, cow's urine and cycocel. Maximum flower yield was noticed in GA₃ 20 ppm followed by cycocel 1000 ppm. Lowest yield recorded was in paclobutrazol treated plants. Monthly flower yield was also improved by the application of cow's urine and bio regulators. In general, there was an increase in yield during April - May and October to December period indicating the favourable effect of the application of GA₃ and cycocel in enhancing flower production during the cooler months especially October, November and December, which in turn helps farmers to get high returns during the off season.

KEY WORDS : Jasmine, Cycocel, Paclobutrazol, GA₃, Cow's urine, Bioregulator

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