

Studies on flowering behavior and its regulation in acid lime (*Citrus aurantifolia* Swingle) under foot hill condition of Arunachal Pradesh

Nadia Debbarma¹, B.N. Hazarika², S.R. Singh², Yamuna Pandey¹, Uzma Khatoon¹ and J.K. Kushwaha¹

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ABSTRACT : The investigation were carried out to study the flowering behavior and its regulation in acid lime (*Citrus aurantifolia* Swingle) under foot hill condition of Arunachal Pradesh in the Experimental Farm, Department of Fruit Science, College of Horticulture and Forestry, Central Agricultural University. Four year old uniform acid lime trees were selected for the experiment of flowering behavior and it revealed that, the acid lime bloom throughout the year but the main blooming period is December-February with lean period of June to August. Further in Acid Lime climatic factors creates variation in flushing and fruiting and most of the shoots, which bear flowers on lateral shoots and in the apical region of shoots. Flushing indicated flowering and its regulation through plant growth regulators and chemical revealed that treatment with GA₃ 100 ppm + Cycocel 1000ppm + KNO₃ 1 per cent in effective against induction of flushing and flowering in various agro-climatic conditions.

Key Words : Flowering behaviour, acid lime, plant growth regulator, chemicals, fruiting.