

Improving the yield of 'Chok Anan' (MA 224) mango with potassium nitrate foliar sprays

ABSTRACT

Unsynchronized flowering behavior and low fruit set are phenomenon that resulted in low production of mango fruit. The effects of a chemical inducing substance, potassium nitrate (KNO₃), on enhancement of flowering on the mango clone 'Chok Anan' (MA 224) and, ultimately, the fruit production were studied. Initially, 12-month-old and 5-year-old mango trees were sprayed with 1%, 2%, and 5% KNO₃. The 5-year-old mango trees showed earlier flowering and higher fruit set with 2% KNO₃ followed by 5% and 1% KNO₃. However, only 1% KNO₃ initiated flowering on young mango trees. In conclusion, the flowering response to KNO₃ depends on the age of tree.

Keyword: *Mangifera indica*; Low production; 'Chok Anan' clone; Potassium nitrate; Flowering