



A model for potassium nitrate-induced flowering of 'Carabao' mango

- It is generally accepted that nitrate salt application stimulates bud break. Presumably, there is a threshold for nitrogen concentration that, if exceeded, will allow the plant to flower
- Potassium nitrate probably acts by elevating nitrogen levels over a nitrogen threshold thereby synchronizing bud break from apices with existing floral initials. The signaling process is probably mediated by polyamines or ethylene.
- In addition, the role of potassium nitrate is related to increased production and translocation of sugars to the bud.
- General recommendation: 3 to 4 weekly sprays with potassium nitrate (3-4% w/v) to affect general terminal bud development, and to ensure intense and even flowering.