



Earlier and enhanced flowering in mango with potassium nitrate sprays

Paclobutrazol (PBZ) was applied to different mango cultivars to induce flowering, but cv. Khiewsaewoy (KSW) was less responsive to PBZ and therefore potassium nitrate sprays were included in an experiment in Thailand. Three year old trees received soil applied PBZ at 6 g a.i./tree in July 1986, followed by 2,5% KNO₃ sprays 4, 6, 8 or 10 weeks after the PBZ treatment. The potassium nitrate sprays applied 8 or 10 weeks after PBZ application resulted in earlier and improved flowering during the off-season.

Treatment	Yield (MT/ha)	Fruits per plant	Fruit weight (g)	Blossom end rot incidence (%)
Control	12 c	76 c	60 c	20 c
10 ⁻⁴ mM AG ₃	17 bc	80 b	78 bc	18 ab
10 ⁻⁸ mM AG ₃	22 a	97 a	111 a	18 ab
6 mM KNO ₃	17 bc	83 b	85 bc	9 cd
8 mM KNO ₃	22 a	97 a	112 a	3 d
10 ⁻⁴ mM AG ₃ + 6 mM KNO ₃	18 b	90 ab	88 b	15 bc
10 ⁻⁴ mM AG ₃ + 8 mM KNO ₃	18 b	91 ab	94 ab	11 c
10 ⁻⁸ mM AG ₃ + 6 mM KNO ₃	23 a	95 ab	101 ab	15 bc
10 ⁻⁸ mM AG ₃ + 8 mM KNO ₃	24 a	100 a	130 a	10 c