Hormone Activity of a Date Palm

As the palm approaches maturity, levels of ABA accumulate and the crown becomes dominant.

After harvest, the roots transport Cytokinins to the crown. The crown then produces ethylene and buds begin to form.

Since these new buds do not have high levels of IAA, they differentiate into vegetative buds.

The actively growing roots demand more IAA for cell division. They transport more cytokinin to the crown and force out more vegetative buds in order to receive more IAA.

When CKY: IAA ratio is high, buds are vegetative. When IAA: CKY increases, buds become reproductive.

As more vegetative growth is developed, more IAA moves to the crown. When the buds increase to a certain amount, buds become reproductive.

The productive bud period is short. The excessive level of IAA will feed back to the leaves and cause ABA to form free sugar transfer.

The higher levels of ABA after flowering will cause IAA to decrease. This will limit cell division and cell sizing of the fruitlets.

IAA levels must be kept higher during the fruitlet cell division period.

ABA levels must be controlled so that fruitlets have time for cell division and cell sizing.

Magnesium is necessary to run the pumps in order to move sugar.

All Palms are treated with high rates of boron and Magnesium.

"This Is The Functions Of Stoller Program For Date Palm Trees"

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