

Omnia E-Bulletin Sept/Oct 07



Omnia Products

Talking Avocado; with K-humate™ & Mega-Kel-P™

Nutriology and the Science of growing Avocados.

Nutriology is the study of nutrients, to produce crops at high yields and top quality in a sustainable way.

Avocados, like other orchard crops deplete nutrients through fruit and wood removal from the orchard and must be replaced in some way. Fertilizing N, P, and K is not enough to sustain a long term orchard and that is why old orchards start to die. In Omnia we have developed a comprehensive and encompassing approach to Nutrition. We address all the aspects of Nutrition making sure the tree is able to produce to its full potential. Omnia Soil testing and OmniSap technology is an invaluable part of managing top crops. An Omnia Agronomist will help you to identify and treat limiting factors in your orchards.

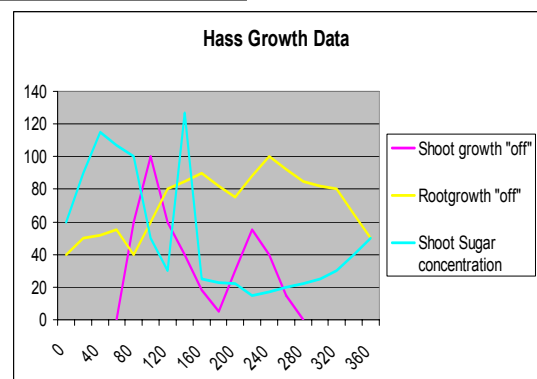
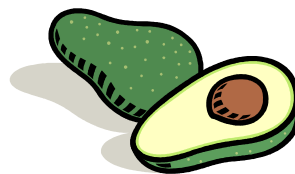
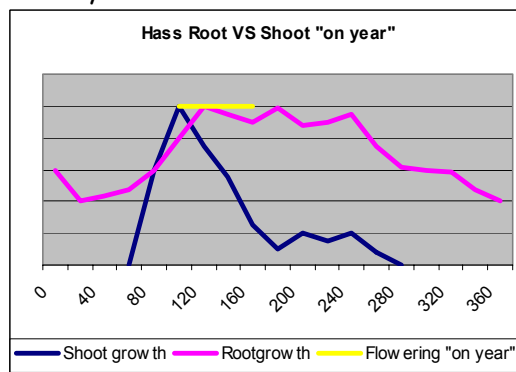
Avocado trees have very shallow and sensitive root systems. The management and growth of these roots are critical in good fruit production. Omnia products like Mega-Kel-P have specifically been designed to treat this phenomenon. Good nutrition is built on correcting soil structure and well balanced Cation ratios. It is of utmost importance that the grower gets an Omnia soil sample and gets his local Omnia representative to interpret the information.

Our high quality Australian made K-Humate 26 liquid humic acid has proven results for increasing nutrient efficiency, improved root growth, improved soil characteristics and is a good source of carbon and microbial food source. 20lts/ha K-Humate during September and October is the correct time for application.

One of the other common problems in avocado production is the rapid growth of new leaves that coincides with late fruit set. This triggers a fruit drop and leads to last years leaves dropping as well.

Fruit abscission mostly ceases after new leaves are fully expanded. The main source of carbon for young developing fruit is the previous season's leaves. This situation puts the current fruit at a disadvantage and reduces crop potential and fruit quality.

Omnia has proven productivity programs which address Energy Management, Energy Balance, Fruit Growth and Quality through continuous root development, stress management and increasing carbohydrate content.



Omnia Services ~ Sap/Soil Program

Soil sampling should be taken prior to planting for annual crops and before Spring in orchard crops, so that soil balances can be corrected.

It is an important time to take sap samples prior to fruit set to determine ideal levels of key elements like calcium, boron, phosphorous and trace elements.

Soil and OmniSap™ sampling kits can be obtained from Omnia agents or agronomists.

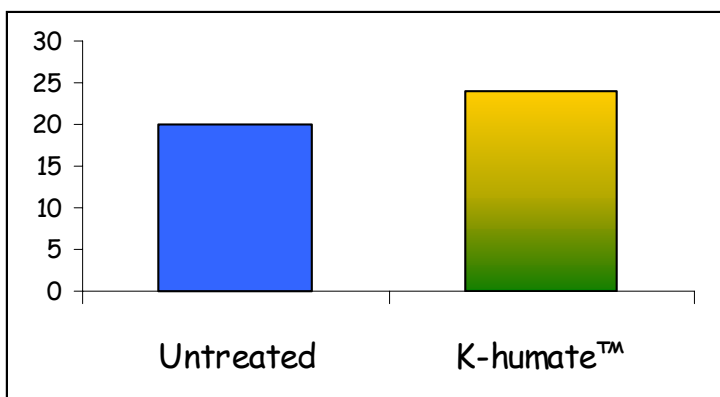
Omnia Trials ~ Sweet Corn ~Turning GREEN into GOLD!

K-humate[™] increased Sweet Corn yields by 20% for grower.

A replicated experiment was conducted to determine the response to varying application rates of *K-humate*[™]. Yield and leaf sap was measured to determine the effect on nutrient uptake by the sweet corn plant. The results obtained showed the application of 20 litres/ha of *K-humate*[™] gave the best results, which included:

- 20% higher corn yields
- lower aluminium levels in the leaf sap in the *K-humate*[™] treated sweet corn grown in acidic soil (pH of 5.6 in water),
- higher nitrogen, phosphorus, potassium, calcium, magnesium, sodium, copper, manganese and boron levels in the *K-humate*[™] treatment.

The effect of *K-humate*[™] on sweet corn root growth can also be clearly seen in another trial which shows that a more extensive root growth in the *K-humate*[™] treated sweet corn seedlings was evident about four weeks after germination, particularly in the fine root hairs. These results, explained the better nutrient uptake by the plants, confirmed by leaf sap analysis in the sweet corn.

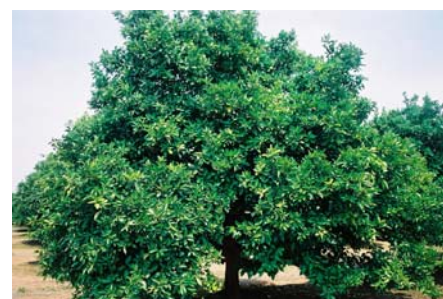


Omnia International Interest ~ Citrus Trial Experience

K-Humate[™] was applied at one application to a block the first year and the second year one half received a second application of *K-humate*[™].

All inputs in the block were the same since it is on one fertigation system so all the trees get the same water and fertilizer.

Fruit set was two weeks earlier in the citrus trees that received two *K-humate*[™] treatments compared to the others which received one *K-humate*[™] treatment.



Talk to us, it pays!



Omnia Specialities Australia Pty Ltd

ABN 85 102 717 019

Telephone +61-3-5133-9118 Facsimile +61-3-5133-9114

Website: www.australianhumates.com Email: info@omnia.net.au