

# fluid focus

product information



Fluid focus No. 0008

March 12, 2007

## High PK Ultra, the Solution to: Quality Crops = Quality Returns \$\$\$

*Does your fruit lack size? Do you want to raise your brix levels? Lack colour in your fruit? Do diseases seem to be attracted to your plants? Do you want to chase the best price by having high quality colour and size? Why would a phosphorus and potassium product be a good choice for a crop finisher?*



**18 % Phosphorus**

**37 % Potassium**

High PK Ultra is one of the highest phosphorus and potassium products on the market anywhere in the world.

- Phosphorus drives the energy transfer cycle during peak demand times flowering, fruit set, fruit fill and crop finishing
- High Potassium levels improve fruit sugar levels, fruit colour and shelf life
- Lack of Nitrogen makes High PK Ultra the ideal fruit crop finishing product
- The phosphorus and potassium work together and the high quantities help achieve faster and more effective results

### Why Phosphorus?

Phosphorus is an essential nutrient used for plant structure and biochemical reactions in plants, especially the creation of proteins and new cells. Plants require a ready supply of phosphorus at all stages of growth for photosynthesis, energy transfer (ATP cycle) and movement of carbohydrates. Adequate phosphorus levels present in the plant ensure that, photosynthetic mobilisation can be optimised to ensure developing fruit receive their nutritional requirements to prevent early shedding.



### Why Potassium?

Potassium is essential for metabolic processes that sustain plant growth and reproduction as well as playing a regulatory role in plants. Potassium is very important in the regulation of plant water use. Deficiencies of potassium will affect the physiology of a plant, disturbing the water efficiency, slowing growth and increasing respiration. Potassium is also important in helping with the plant resistance to diseases.





**Fleshy fruits and tuber crops have a high demand for potassium!!**



## Phosphorus & Potassium Work Together

Both phosphorus and potassium work together to drive plant growth. Their uptake by the plant is very much linked together. Water and light are taken into the plant in a process called photosynthesis which promotes growth, resulting in a demand for energy. The creation of energy in this process is through a transfer cycle (ATP cycle) which is driven by phosphorus. However, this cycle is limited by the amount of water in the plant, which is regulated by potassium. With increased levels of potassium, amounts of phosphorus will increase along with the activity of the energy transfer cycle resulting in increased cell growth.

The more energy a plant has, the greater the uptake of all nutrients from the soil nutrient pool. Therefore, applying High PK Ultra will rapidly increase levels of both of potassium and phosphorus and will result in larger fruit, increased crop vigour (through increased cell growth) and will prevent premature crop senescence.

High PK Ultra is compatible with a large range of products and can be applied to a wide range of crops including; avocados, bananas, brassicas, cereals, cotton, legumes potatoes, strawberries, tree crops, tomatoes, turf, vegetables, vines, ornamentals. Generally it is foliar applied but soil applications are also effective. Please check the label for rates or for further information contact your area manager or our agronomy team.

### Grower Testimony

Mr Phong Ta, Owner Manager of Choice Strawberries, in Carabooda, Western Australia.

High PK Ultra was used on Mr Phong Ta's Strawberries as part of his nutrient management program for the whole season. High PK Ultra was able to supply the crop at all growth stages with readily available phosphorus and potassium and was essential at fruit fill to increase berry size, colour, fruit flavour and to extend shelf life.

"I used High PK Ultra for 4 days out of seven applied alternately with calcium nitrate. I was very happy with the crop we produced. These products were applied with a Netafim injection system and made nutrient management simple and easy."



Mr Phong Ta, Choice Strawberries WA

