Role of nutrients by apple growth stage

Bud Burst - Start of Flowering



- Nitrogen, Potassium and Magnesium promote strong early growth of new plant tissues and maximum tree productivity
- Phosphorus maximize root development and flower cluster formation
- Calcium boost root and leaf growth and high yields
- Boron maximize pollination and strong flower development
- Manganese to maximize tissue growth
- Zinc to optimize bud burst and early leaf development

Fruit Set - Fruitlet





- Nitrogen in reduced amounts to maintain fruit fill
- Potassium minimize fruit disorders
- Phosphorus fruit set and development
- Calcium maintain good fruit quality and minimize fruit disorders
- Magnesium for reduced fruit drop
- Boron improve fruit set

Fruit Fill - Maturity



• Nitrogen – in reduced amounts to maintain fruit fill and high sugars (excess can lead to rots and quality deterioration)

- Potassium maximize fruit weight, TSS levels in the fruit and minimize disorders and sunscald (but at levels that don't compete with calcium)
- Calcium maintain good fruit firmness and storage quality
- Manganese alongside Phosphorus will promote fruit coloration

Post Harvest



- Nitrogen and Potassium boost reserves for next season's early growth
- Phosphorus maximize bud development and early rooting and new tissue growth in the following spring
- Calcium maintain high levels in the tree
- Magnesium, Boron, and Zinc replenish reserves and strengthen new buds