

QUICKSOIL SAMPLING GUIDE

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ADDRESS 1/5 SCOTLAND ST:
BUNDABERG EAST
QLD 4670

POST SAMPLES TO: LOCKED BAG 3901
BUNDABERG
QLD 4670



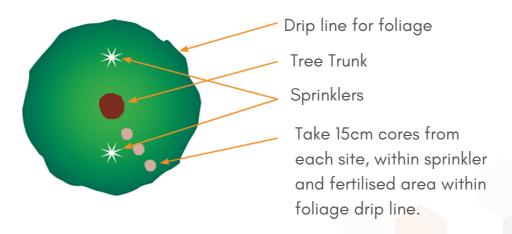




Quicksoil Tests

- EC BALANCE THE UPTAKE OF NUTRIENTS AND WATER
- pH AFFECTS AVAILABILITY OF NUTRIENTS
- NO3 FOR VEGETATIVE GROWTH AND YIELD
- Ca FOR CATION BALANCE AND QUALITY
- K FOR YIELD AND QUALITY
- Mg FOR SUGAR PRODUCTION
- Na TO ASSESS SALINITY
- CI TO ASSESS THE EFFECTS ON NITRATE AND TOXICITY

SAMPLING TREE CROPS UNDER TREE SPRINKLERS



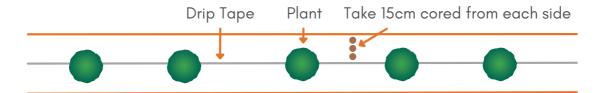
Sample at least 10 sites (30 cores) through the crop, mix very thoroughly, and send a 500g sub-sample to the laboratory.







ROW CROPS



Sample at least 10 sites (30 cores) through the crop, mix very thoroughly, and send a 500g sub-sample to the laboratory.

HOW TO SAMPLE

Sample 3 cores across the wetted root zone at 10 sites across the block to 15cm









WHY BALANCE NUTRIENTS IN THE ROOT ZONE

- Maintain consistent plant growth
- Optimise plant height
- Reduce rank vegetable growth
- Allow for even fruit setting
- Fill fruit evenly to improve internal quality
- Maintain availability of essentail nutrients
- Reduce effects of adverse weather on fruit

SUBMITTING SAMPLES

- Complete your Analysis Request Form online at: https://au.agpro.technology/Login
- Post your sample to:

Novum Lifesciences Locked Bag 3901 Bundaberg, QLD 4670







FRUIT QUALITY ISSUES

 Controlled filling of fruit reduces hollowness

 Increase the levels of calcium in the fruit walls

 Reduces splitting or soft fruit after/ during wet weather by maintaining EC levels













WHY BALANCE NUTRIENTS IN THE **ROOT ZONE?**

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• Optimise plant height

• Reduce rank vegetative growth

· Allow for even fruit setting

• Fill fruit evenly to improve internal quality

• Maintain availability of essential nutrients

• Reduce effects of adverse weather on

fruit











FACTORS AFFECTING ROOT GROWTH

- Physical structure, particle size, compaction
- Moisture content Salinity EC













EARLY GROWTH TO BUDDING

Underwatering

Poor growth

• Reduced uptake of nitrogen and calcium

• Reduced vine growth

Overwatering

• Leaching of base fertilizer

Increased susceptibility

to root diseases

 Lush vegetative growth and poor flowering

 Shallow root system

 Susceptibility to sudden wilt











FLOWERING TO EARLY FRUIT SET

Underwatering

Small vines

• Low nitrogen and calcium uptake

• Falling flowers and dropping of small fruit

Overwatering

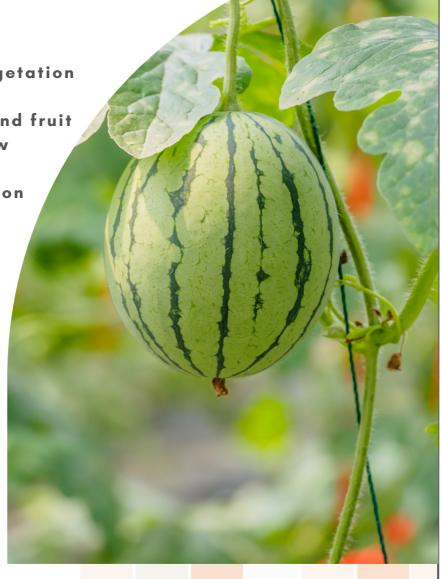
• Excessive vegetation growth

• Poor flower and fruit set due to low sugars

Poor pollination

 Shallow root system

 Increased disease risk











FRUIT SET TO FRUIT FILL

Underwatering

• Small fruit size

• Dropping small fruit

• Small vines

• Sunburn

Overwatering

• Poor fruit set

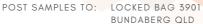
• Excessing vine growth

 Poor flesh structure due to low calcium

balance











MATURITY & HARVEST

Underwatering

• Small fruit size

Early maturity of young melons

Low yields

Overwatering

• Stem end break down

• Prone to ground rots

• Low sugars

• Slow to mature

· Soft fruit







