Sugar Research Australia

BURDEKIN

Legume species | Crop dry mass (t/ha)

Mill by-product | Rate (t/ha)

Ameliorants

Lime Calcium (meq/100g) (Report) → (Table 1) Lime tonnes/ha

Ca contributions from mill by-products (Table 5) t/ha

Magnesium (Mg) Amm-acet (meq/100g) (Report) → (Table 2) Mg kg/ha

Mg contributions from mill by-products (Table 5) kg/ha

Gypsum ESP (%) (Report) → (Table 3) Gypsum tonnes/ha

Silicate Si (BSES) (Report) Si (CaCl) (Report) → (Table 4) Mud/ash tonnes/ha

Nitrogen (N)

Organic C (%) (Report) DYP (Table 6) N mineralisation index (Table 6)

→ Plant (Table 6) kg/ha → Replant and ratoons (Table 6) kg/ha

Contributions from legume crop

Year 1 (Table 7) kg/ha

N contributions from mill by-products

Year 1 (Table 8) kg/ha *Year 2* (Table 8) kg/ha *Year 3* (Table 8) kg/ha

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Phosphorus (P)

PBI [ ] (Report)

BSES P (mg/kg) [ ] (Report) → Plant [ ] kg/ha (Table 9)

→ Ratoon [ ] kg/ha (Table 9)

P contributions from mill by-products

[ ] (Table 10)

Potassium (K)

Nitric K (meq/100g) [ ] (Report)

K (meq/100g) Amm-acet (meq/100g) [ ] (Report) → Plant [ ] kg/ha (Table 11)

Soil texture [ ] (Report)

→ Replant and ratoon [ ] kg/ha (Table 11)

K contributions from mill by-products

Year 1 [ ] kg/ha (Table 12)

Year 2 [ ] kg/ha (Table 12)

Year 3 [ ] kg/ha (Table 12)

Sulfur (S)

Sulfate S (mg/kg) [ ] (Report)

N mineralisation index [ ] (same as for N) → Plant, replant and ratoon crops [ ] kg/ha (Table 13)

S contributions from mill by-products

Year 1 [ ] kg/ha (Table 14)

Year 2 [ ] kg/ha (Table 14)

Year 3 [ ] kg/ha (Table 14)

Copper (Cu)

Cu (DTPA) mg/kg [ ] (Report)

→ Plant [ ] kg/ha (Table 15)

Zinc (Zn)

pH (water) [ ] (Report)

If pH <6.5 use Zn (BSES-HCl) mg/kg [ ] (Report) → Plant [ ] kg/ha (Table 16)

OR

If pH >6.5 use Zn (DTPA) mg/kg [ ] (Report) → [ ] kg/ha (Table 16)

*** Remember, deductions can be made for legumes (N) and mill by-products (N, P, K, S, Ca, Mg, Si).**