Sugar Research Australia

WET TROPICS

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 t/ha (Table 4)

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

Mg contributions from mill by-products kg/ha (Table 4)

Silicate Si (BSES) (Report) Si (CaCl) (Report) → (Table 3) Mud/ash tonnes/ha

Nitrogen (N)

Organic C (%) (Report)

N mineralisation index (Table 5)

→ Plant kg/ha (Table 5)

→ Replant and ratoons kg/ha (Table 5)

Contributions from legume crop

Year 1 kg/ha (Table 6)

N contributions from mill by-products

Year 1 kg/ha (Table 7) *Year 2* kg/ha (Table 7) *Year 3* kg/ha (Table 7)

Phosphorus (P)

PBI (Report) BSES P (mg/kg) (Report)

→ Plant kg/ha (Table 8)

→ Ratoon kg/ha (Table 8)

P contributions from mill by-products (Table 9)

Potassium (K)

Nitric K (meq/100g) [ ] (Report) K (meq/100g) Amm-acet (meq/100g) [ ] (Report) → Plant [ ] kg/ha (Table 10)

Soil texture [ ] (Report) → Replant and ratoon [ ] kg/ha (Table 10)

K contributions from mill by-products

Year 1 [ ] kg/ha (Table 11) *Year 2* [ ] kg/ha (Table 11) *Year 3* [ ] kg/ha (Table 11)

Sulfur (S)

Sulfate S (mg/kg) [ ] (Report) N mineralisation index [ ] (same as for N) → Plant, replant and ratoon crops [ ] kg/ha (Table 12)

S contributions from mill by-products

Year 1 [ ] kg/ha (Table 13) *Year 2* [ ] kg/ha (Table 13) *Year 3* [ ] kg/ha (Table 13)

Copper (Cu)

Cu (DTPA) mg/kg [ ] (Report) → Plant [ ] kg/ha (Table 14)

Zinc (Zn)

pH (water) [ ] (Report)

If pH <6.5 use Zn (BSES-HCl) mg/kg [ ] (Report) → Plant [ ] kg/ha (Table 15)

OR

If pH >6.5 use Zn (DTPA) mg/kg [ ] (Report) → [ ] kg/ha (Table 15)

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