

## SOUTHERN

Legume species  Crop dry mass (t/ha)   
 Mill by-product  Rate (t/ha)

### Ameliorants

**Lime** Cation exchange capacity (CEC)  (Report) →  tonnes/ha (Table 1) Lime  
 Calcium (meq/100g)  (Report) →  tonnes/ha (Table 2) Lime  
 Ca contributions from mill by-products  t/ha (Table 6)

**Magnesium** (Mg) Amm-acet (meq/100g)  (Report) →  kg/ha (Table 3) Mg  
 Mg contributions from mill by-products  kg/ha (Table 6)

**Gypsum** ESP (%)  (Report) →  tonnes/ha (Table 4) Gypsum

**Silicate** Si (BSES)  (Report) Si (CaCl)  (Report) →  tonnes/ha (Table 5) Mud/ash

### Nitrogen (N)

Organic C (%)  (Report) N mineralisation index  (Table 7)  
 → Plant  kg/ha (Table 7) → Replant and ratoons  kg/ha (Table 7)

#### Contributions from legume crop

Year 1  kg/ha (Table 8)

#### N contributions from mill by-products

Year 1  kg/ha (Table 9)

Year 2  kg/ha (Table 9)

Year 3  kg/ha (Table 9)

### Phosphorus (P)

PBI  (Report) BSES P (mg/kg)  (Report) → Plant  kg/ha (Table 10)  
 → Ratoon  kg/ha (Table 10)

P contributions from mill by-products

(Table 11)

### Potassium (K)

Nitric K (meq/100g)  (Report) K (meq/100g)  (Report) → Plant  kg/ha (Table 12)  
 Amm-acet (meq/100g)  (Report) → Replant and ratoon  kg/ha (Table 12)  
 Soil texture  (Report) →  kg/ha (Table 12)

K contributions from mill by-products

Year 1  kg/ha (Table 13) Year 2  kg/ha (Table 13) Year 3  kg/ha (Table 13)

### Sulfur (S)

Sulfate S (mg/kg)  (Report) N mineralisation index  (same as for N) → Plant, replant and ratoon crops  kg/ha (Table 14)

S contributions from mill by-products

Year 1  kg/ha (Table 15) Year 2  kg/ha (Table 15) Year 3  kg/ha (Table 15)

### Copper (Cu)

Cu (DTPA) mg/kg  (Report) → Plant  kg/ha (Table 16)

### Zinc (Zn)

pH (water)  (Report) If pH <6.5 use Zn (BSES-HCl) mg/kg  (Report) → Plant  kg/ha (Table 17)  
 OR  
 If pH >6.5 use Zn (DTPA) mg/kg  (Report) →  kg/ha (Table 17)

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