

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

UREA X AMMONIUM SULPHATE TRIAL

Catalogue No.:25  
 This crop: 3rd Ratoon  
 Site: Theunissen, Inyaninga  
 Altitude: 300'  
 Soil series: Windermere  
 Design: Random Block  
 Variety: Co.331  
 Fertilizer: N P K  
           3R See 120 200  
           Treatments

Soil Analysis: pH OM% Clay%  
                   Nil  
                   p.p.m.  
                   P K Ca Mg  
                   Nil  
 Age: 12 months Oct. 1960 - Oct. 1961  
 Rainfall: 49.28"

Object: To compare urea and ammonium sulphate, each at two levels of N, with a control without nitrogen.

- Treatments: Control - No nitrogen  
 Urea - 100 lb. N per acre  
 Urea - 200 lb. N per acre  
 S/A - 100 lb. N per acre  
 S/A - 200 lb. N per acre

Results:

	Tons cane per acre			
	3rd. Ratoon			
	0 lb.N	100 lb.N	200 lb.N	Mean
S/A	-	37.7	42.0	39.9
Urea	-	34.8	43.7	39.3
Mean	24.3	36.3	42.9	-

	Sucrose % cane			
	3rd Ratoon			
	0 lb.N	100 lb.N	200 lb.N	Mean
S/A	-	14.8	14.6	14.7
Urea	-	14.7	14.9	14.8
Mean	14.7	14.8	14.8	-

	Tons sucrose per acre			
	3rd Ratoon			
	0 lb.N	100 lb.N	200 lb.N	Mean
S/A	-	5.58	6.16	5.87
Urea	-	5.12	6.24	5.68
Mean	3.57	5.35	6.20	-