

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

FILTER CAKE AND KRAAL MANURE

Catalogue No.: 159
This crop: Plant
Site: Klipspruit section, Powers-
 court
Altitude: 2500'
Soil Series: Inanda
Design: 3 X 3 factorial, 4 replica
 tions
Variety: N:Co.293
Fertilizer: N: 66 Ib./ac.
 See treatments
Water regime: Dryland

Soil Analysis: No samples taken

Age: 22months (1/57 - 11/58)
Rainfall: 75.75¹¹

Object: To determine the optimum combination of filter eake and kraal manure in an area deficient in P and K.

Treatments: FO - No filter cake K0 - No kraal manure
 F1 - 5 tons filter cake/ ac. K1 - 10 tons kraal manure/aC.
 F2 - 10 tons filter cake/ ac. K2 - 20 tons kraal manure/ ace

Results:

Treatment	T. C. A.	Sue. %	T. S. A.
Fa	52.3	14.1	7.38
F1	57.2	13.8	7.93
F2	59.2	13.5	8.01
Mean	56.2	13.8	7.77
S.E. single plot	± 4.95		+ 0.72
L.S.D. (0.05)	4.17		0.61
(0.01)	5.65		0.83
C.V. %	8.8		9.3

Comment: Response to filter cake is highly significantly linear for T.C.A.

9th My, 1966.

SOUTH AFRICAN SUGAR INDUSTRY
AGRONOMISTS' ASSOCIATION

FILTER CAKE vs. KRAAL MANURE

Catalogue No.	159	Soil Analysis	None
f.S.Z. Code	Expt o Plot 13		
This crop	2nd Ratoon		
Site	K/Spruit, P/Court	Age	25 months (11,60 - 12,62)
Altitude	2 500		
Soil Type	T.M.S. Ord,		
Design	Factorial 2 reps.		
Variety	NCo 293	Rainfall	None recorded
Fertilizer	See treatments		
Water Regime	Dryland		

Objecte: To test residual effects of treatments.

Treatments: As per plant crop

Results:

Tons cane per acre (Means)

	KMO	<u>KM</u>	KM2	Mean
FCO	37,6	28,6	31,9	32,7
FC1	24,6	35,0	36,5	29,0
FC2	30,7	39,1	30,7	33,5
Mean	30,9	31,3	33,0	31,7

No treatment had a significant effect on Sue. % Cane the mean sucrose % Cane being 15,30%

The C.V. % = 22,6% and hence no significant treatment responses.