

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

FILTER CAKE VS. OTHER ORGANIC
AND INORGANIC FERTILIZERS

Catalogue No: 160

Soil Analysis: No samples taken

This crop: Plant

Site: Clipspruit section, Powers-
court

Altitude: 2500'

Soil series: Inanda

Design: Random Block, 6 replica-
tions

Variety: N:Co.293

Fertilizer: See treatments

AGE: 21 months (12/56 - 9/58)

Water regime: Dryland

Rainfall: 68:10^u

Object: filter cake with kraal manure, organic mixture and inorganic fertilizer.

Treatments: A: 1500 lb. organic (greenleaf) Mixture in furrow
B: 10 tons filter cake, 66 lb. N, 100 lb. K in furrow
66 lb. N, 100 lb. K top dress
C: 20 tons kraal manure, 300 lb. supers in furrow
66 lb. N top dress
D: 800 lb. supers, 66 lb. N, 100 lb. K in furrow
66 lb. N, 100 lb. K top dress

Results:

Treatment	T.C.A.	Suc. %I	T.S.«,
A	54.9	16.0	8.80
B	70.1	15.5	10.86
C	67.2	15.5	10.43
D	66.3	15.8	10.51
Mean	64.6		10.15
S.E. single plot	± 3.29		± 0.58
L.S.D. (0.05)	4.04		0.71
(0.01)	5.59		0.98
C.V. %	5.1		5.7

9th May, 1966.

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FILTER CAKE VS. OTHER ORGANIC
AND INORGANIC FERTILIZERS

<p><u>Catalogue No</u> : 160 <u>This crop</u>: 1st Ratoon <u>Site</u>: Klipspruit section, Powerscourt <u>Altitude</u>: 2500 ft <u>Soil series</u>: Inanda <u>Design</u>: Random Block, 6 replications <u>Variety</u>: N:Co.293 <u>Fertilizer</u>: See treatments <u>Water regime</u>: Dryland</p>	<p><u>Soil Analysis</u>: No samples taken Age: 24 months (9/58 - 9/60) Rainfall: 71.72"</p>
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Object: To compare residual effects of filter cake with superphosphate top dressings on other plant crop treatments.

Treatments:

- A 400 lb. supers, 92 lb. N, 200 lb. K
- B 92 lb. N, 200 lb. K
- C 200 lb. supers, 92 lb. N, 200 lb. K
- D 400 lb. supers, 92 lb. N, 200 lb. K

Results:

Treatment	T. C. A.	Suc. %	T. S. A.
A	43.8	16.2	7.11
B	53.7	16.1	8.65
C	50.9	16.2	8.27
D	48.0	16.1	7.74
Mean	49.1	16.2	7.94
S.E. single plot	± 4.24	-	± 0.75
L.S.D. (0.05)	5.22	-	0.92
(0.01)	7.22	-	-
C.V. %	8.7	-	9.5