

SOUTH AFRICAN SUGAR INDUSTRY
AGRONOMISTS' ASSOCIATION.

STERILISATION TRIAL WITH FILTER CAKE & MOLASSES.

Catalogue No.: 13
This Crop: P, 1R, 2R.
Site: Godden, Klipfontein.
Altitude: 300'
Soil Series: Clansthal
Design: Random Block
Variety: N:Co.376
Fertilizer: N P K
P A/N 300 - 250
1R Urea 400 - 300
2R Urea 400 - 600
 G.A.N. 800

Water Regime: Dry Land.

Soil Analysis:

	pH	OM%	Clay%
P	5.88	0.62	-
1R	5.87	0.62	-
2R	5.27	0.51	-

	p.p.m.			
	P	K	Ca	Mg
P	75	101	350	23
1R	69	101	-	25
2R	21	65	343	36

Age: P 23 mths. Dec. '58 - Nov. '60
 1R 27 mths. Nov. '60 - Feb. '63
 2R 16 mths. Feb. '63 - Jun. '64

Rainfall: P 61.21"
 1R 95.98"
 2R 46.52"

Object: To study the effects of two levels of a soil sterilant on cane yields on a Clansthal sand.

Treatments: S0 = Not sterilised.
 S1 = Sterilised with Field Machine @ 25 G.P.A. Shell "DD".
 S2 = Sterilised with Field Machine + Hand Pump @ 50 G.P.A. Shell "DD".

Results:

Treatments	T.C.A.			% Sucrose			T.S.A.		
	P	1R	2R	P	1R	2R	P	1R	2R
S0 - Not Sterilised	40.8	25.9	31.7	14.05	11.03	13.89	5.74	2.86	4.42
S1 - Sterilised 25 G.P.A.	39.6	25.0	32.6	14.17	11.55	14.11	5.61	2.92	4.61
S2 - Sterilised 50 G.P.A.	44.2	23.4	33.1	14.15	11.95	13.66	6.32	2.79	4.56