

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Filter cake x molasses trial

Catalogue No: 71
 This crop: P, 1R, 2R.
 Site: Lot 17, Mwavine
 Altitude: 300'
 Soil series: Clansthal
 Design: Random block
 Variety: N.Co. 339
 Fertilizer: N P K
 P A N 400 300
 1R Urea 400 300
 2R Urea 300 200
 Water Regime: Dryland

Soil Analysis:

	<u>pH</u>	<u>OM %</u>	<u>Clay%</u>				
P							
1R	6.09	1.02					
2R	6.18	1.17					
				<u>ppm</u>			
	P	K	Ca	Mg			
P							
1R	20	75	1780	517			
2R	51	123	2010	201			
<u>Age:</u>	P - 25M Oct. 1958-Nov. 1960						
	1R - 11M Nov. 1960-Oct. 1961						
	2R - 20M Oct. 1961-June 1963						
<u>Rainfall:</u>	p-67.84" R1-5L 06" R2-60.23"						

Object:

To compare the effects of filter cake and molasses, alone and in combination, with a control.

Treatments:

- X Control
- A = Molasses 1,500 G.P.A.
- B = Filter Press 40 T.P.A.
- C = Molasses 1,500 G.P.A. + Filter press 40 T.P.A.
- (L) The whole area received molasses and filter press before ploughing in last crop.
- (ii) Site sterilised with 25 G.P.A. of 2.25 E.D.B. on 9th October 1958.

Results:

Treatments	T.e.A.			Sucrose % Cane			T.S.A.		
	Plant	1R.	2R.	Plant	1R.	2R.	Plant	1R.	2R
X Control	70.3	29.5	20.0	14.7	14.2	14.6	10.31	4.18	2.93
A Molasses 1,500 G.P.A.	77.3	37.6	26.1	14.5	14.2	14.6	11.21	5.33	3.77
B Filter Press 40 T.P.A.	73.9	33.4	21.1	14.4	14.3	14.5	10.62	4.77	13.06
C Mol. 1,500 G.P.A. + Filter Press 40 TPA	76.6	33.7	30.9	14.5	14.3	14.0	11.07	4.82	14.34