

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Filter cake trial

Catalogue No: 75
This crop: P, 1R.
Site: Sparks, Klipfontein
Altitude: 300'
Soil series: Fernwood
Design: Random blocks.
Variety: N:Co.382
Fertilizer:

		N	P	K
P	Urea	250		250
Rl	LAN	500		250

Water Regime: Dryland

Soil Analysis:

	<u>pH</u>	<u>O.M.%</u>	<u>Clay%</u>
P			
1R	6.38	0.38	

ppm

	<u>P</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>
P				
1R	35	103	858	63

Age: P = 15M. Mar. 1962 June 1963
 1R = 16M. June 1963 - Oct. 1964
Rainfall: P - 47.58" 1R - 40.36"

Object:

To compare various levels of filter cake with control, and to study the effects of adding lime and molasses.

Treatments: 1 & 8= Control
 2 = Filter press 20 T.P.
 3 = Filter press 40 T.P.S,
 4 = Filter press 60 T.P.f.
 5 = Filter press 100 T.P.A.
 6 = Filter press 50 T.P.A. + lime 2 T.P.A.
 7 = Filter press 50 T.P.A. + Lime 2 T.P.A. + MoLaases 1000 G.P.A.
 9 = Observation.

Results:

Treatments	T.C.A.		Sue. % Cane		T.S.A.	
	P.	1R	P.	1R	P.	1R.
1 & 8 Control	40.9	23.2	13.7	11.2	5.58	3.29
2 Filter Press 20 T.P.A.	36.4	23.2	14.3	13.7	5.19	3.18
3 Filter Press 40 T.P.A.	42.0	22.0	14.0	14.7	5.89	3.23
4 Filter Press 60 T.P.A.	42.6	24.5	14.3	14.8	6.08	3.63
5 Filter Press 100 T.P.A.	37.7	24.1	14.0	14.2	5.26	3.42
6 F.P. 50 T.P.A. + Lime 2 T.P.A.	35.3	19.8	14.5	13.9	5.10	2.76
7 F. Press 50 T.P.A. + Lime 2 T.P.A. + Mol. 1,000 G.P.i.,	39.6	22.2	13.7	14.1	5.44	3.13
9 Observation	36.9	18.4	14.5	14.0	5.35	2.58