SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

FILTER CAKE X FURROW DEPTH TRIAL

Catalogue No.: 98
This crop: P 1R
Site: Hospital Tongaat
Altitude: 300'
Soil series: Clansthal
Design: Random Block
Variety: N:Co.382

Fertilizer:		N	P	K
P	L.A.N.	500		200
1R	L.A.N.	500	200	300

Water regime: Dryland

Soil Analysis:

	pH	OM%	Clay%
P	6.15	0 055	
1R	6.12	3.00	7.0

	p.p.m			
	--P	K	Ca	Mg
P	130	56	930	48
1R	145	85	280	47

Age: P 13 months July 1963-Aug. 1964
1R 10 months Aug. 1964-June 1965

Rainfall: P 42.13"
1R 30.42"

Object: To compare the effects of filter cake in the furrow and broadcast.

Treatments:
A Control
B Furrow depth 3'
C Fur-r-ow depth 3' + filter press 50 T.P.A.
D Furrow depth 1½' + filter press 50 T.P.A.
E Hoed in filter press 50 T.P.A.

Results:

Tons cane per acre

Treatments	Plant T.C.A.	1R T.C.A.
A Control	20.6	23.5
B Furrow Depth 3'	28.7	24.9
C Fur-r-ow depth 3' +	30.5	24.5
D Furrow depth 1½' +	28.8	27.0
E Hoed F.P. 50 TP	23.7	24.9

Sucrose % cane

Treatments	Plant T.C.A.	1R T.C.A.
A Control	13.3	12.7
B Furrow depth 3'	13.1	12.2
C Furrow depth 3'+	13.2	11.9
D Furrow depth 1½'+	12.8	12.4
E Hoed F.P. 50 TPA	13.2	12.3

Tons sucrose per acre

Treatments	Plant! T.C.A.	1R T.C.A.
A Control	2.74	2.98
B Furrow Depth 3'	3.76	3.05
C Furrow Depth 3' +	4.01	2.92
D Furrow depth 1½' +	3.68	3.34