

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Filter cake trial

Catalogue No.: 9
This crop: P., IR.
Site: Monespere, Cranbrook.
Altitude: 600'
Soil series: Cartref
Design: Random block.
Variety: N:Co.376.
Fertilizer: N P K
P. A/N 450 150
IR. Urea 350 300 200
Water regime: Dryland.

Soil Analysis: pH OM % Clay %
P. 5.36 1.13
IR. 5.20 0.76
p.p.m.
P K Ca Mg
P. 15 26 660
IR. 10 37 370 223

Ilge:
P. 22 mths. Mar.1959 - Dec.1960.
IR. 18 mths. Dec.1960 - June,1962.
Rainfall:
P. 63.85"
IR. 59.31"

Object: To compare three levels of filter cake with a control.

Treatments: FO = No filter press
F1 = F. Press 8 T.P.A.
F2 = F. Press 16 T.P.A.
F3 = F. Press 24 T.P.A.

Results:

	T.C.A.		Sue. %		T.S.A.	
	p	TIR	P	IR	P	IR
FO = No filter press	54.8	52.4	14.1	14.3	7.72	7.51
F1 = F. Press 8 T.P.A.	54.7	48.1	14.1	14.3	7.74	6.88
F2 = F. Press 16 "	62.7	49.3	14.2	14.5	8.90	7.13
F3 = F. Press 24 "	58.1	47.8	14.2	14.3	8.22	6.85

6th June, 1966.

SOUTH AFRICAN SUGAR INDUSTRY
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MOLASSES + FILTER PRESS TRIAL.

<p><u>Catalogue No.:</u> 9 <u>This Crop:</u> P, IR <u>Site:</u> Monespere, Cranbrook. <u>Altitude:</u> 600' <u>Soil Series:</u> Cartref <u>Design:</u> Random Block <u>Variety:</u> N:Co.376 <u>Fertilizer:</u> N P K P ammo Nitrate 450 150 IR Urea 350 300 200 <u>Water Regime:</u> Dry Land.</p>	<p><u>Soil Analysis:</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;"><u>pH</u></td> <td style="text-align: center;"><u>OM%</u></td> <td style="text-align: center;"><u>Clay%</u></td> </tr> <tr> <td>P</td> <td style="text-align: center;">5.36</td> <td style="text-align: center;">1.13</td> <td></td> </tr> <tr> <td>IR</td> <td style="text-align: center;">5.40</td> <td style="text-align: center;">0.76</td> <td></td> </tr> <tr> <td></td> <td colspan="3" style="text-align: center;"><u>p. p. m.</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>P</u></td> <td style="text-align: center;"><u>K</u></td> <td style="text-align: center;"><u>Ca</u></td> </tr> <tr> <td>P</td> <td style="text-align: center;">58</td> <td style="text-align: center;">101</td> <td style="text-align: center;">132</td> </tr> <tr> <td>IR</td> <td style="text-align: center;">38</td> <td style="text-align: center;">154</td> <td style="text-align: center;">74</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;"><u>Mg</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">982</td> </tr> </table> <p><u>Age:</u> P 21 mths. = Mar. '59 - Dec. '60 IR 18 mths. = Dec. '60 - June '62</p> <p><u>Rainfall:</u> P = 61.56" IR = 46.27"</p>		<u>pH</u>	<u>OM%</u>	<u>Clay%</u>	P	5.36	1.13		IR	5.40	0.76			<u>p. p. m.</u>				<u>P</u>	<u>K</u>	<u>Ca</u>	P	58	101	132	IR	38	154	74				<u>Mg</u>				982
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Object: To measure the effects of different levels of molasses and filter cake,

Treatments:

M0 = No Molasses	FO = No Filter Press
M1 = Molasses 400 G.P.A.	F1 = Filter Press 8 T.P.A
M2 = " 800 "	F2 = " " 16 "
M3 = " 1200 "	F3 = " " 24 "

Results:

Treatments	PLANT CANE			1ST RATOON		
	T.C.A.	Sucrose %	T.S.A.	T.C.A.	Sucrose %	T.S.A.
M0	57.4	14.05	8.07	49.2	14.21	6.98
M1	57.7	14.14	8.17	49.1	14.27	7.02
M2	57.0	14.17	8.06	49.3	14.51	7.15
M3	58.2	14.23	8.29	50.0	14.46	7.22
FO	54.8	14.09	7.72	52.4	14.33	7.51
F1	54.7	14.14	7.74	48.1	14.31	6.88
F2	62.7	14.18	8.90	49.3	14.45	7.13
F3	58.1	14.18	8.22	47.8	14.34	6.85