

SOUTH AFRICAN SUGAR INDUSTRY  
AGRONOMISTS' ASSOCIATION

MANURE TRIAL.

Catalogue No.: 77  
This Crop: P, IR, 2R  
Site: Karuppen, Hwawine.  
Altitude: 300'  
Soil Series: Clansthal  
Design: Random Block  
Variety: N:Co.382  
Fertilizer: N P K  
P Urea 200 300 200  
IR L.A.N. 300 300 200  
2R L.A.N. 500 300 200  
Water Regime: Dryland.

Soil Analysis:

	<u>pH</u>	<u>OM%</u>	<u>Clay%</u>
P	5.52	0.70	
1R	5.58	0.55	
2R	6.22	0.74	

*p.p.m.*

	<u>P</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>
P	43	84	1196	690
1R	38	66	426	24
2R	67	97	215	49

Age: P 18 months - Nov. '61 - May '63  
IR 14 months - May '63 - July '64  
2R 14 months - July '64 - Sept. '65

Rainfall: P - 59.63"  
IR - 25.74"  
2R - 40.99"

Object: To compare different organic manurial treatments with a control.

Treatments: PLANT - 1ST RATOON

A = Control  
B = Pig Effluent 2 Inches  
C = " " 4 "  
D = " " 6 "

E = Cattle Manure 5 T.P.A.  
F = " " 10 "  
G = " " 20 "  
H = Molasses 1000 G.P.A. )  
Filter Press 40 T.P.A.)

Results:

TREATMENTS	PLANT CANE			1ST RATOON		
	T.C.A.	% SUCROSE	T.S.A.	T.C.A.	% SUCROSE	T.S.A.
A	58.5	14.42	8.42	27.1	14.01	3.80
B	57.2	14.18	8.13	36.3	14.23	5.17
C	59.1	14.19	8.39	41.0	14.03	5.75
D	55.8	14.46	8.05	43.2	13.96	6.03
E	55.4	14.59	8.10	36.2	14.12	5.11
F	59.1	14.35	8.51	35.9	14.04	5.04
G	58.0	14.27	8.29	33.0	14.05	4.64
H	54.3	13.98	7.59	38.6	14.38	5.55

Treatments: 2ND RATOON

1 = Control  
2 = Pig Weed  
3 = Pig Weed, Weeded.

Results:

TREATMENT	T.C.A.	% SUCROSE	T.S.A.
	31.7	12.25	1.01