

SOUTH AFRICAN SUGAR INDUSTRY  
AGRONOMIST'S ASSOCIATION

E.D.B. STERILIZATION

Catalogue No.: 69  
This Crop: P, IR  
Site: Beach Road, Tongaat.  
Altitude: 200'  
Soil Series: Clansthal  
Design: Random Block  
Variety: N:Co.382  
Fertilizer: N P K  
 P Urea 225 330  
 IR Urea 400 250  
Water Regime: Dry Larid,

Soil Analysis:

	<u>pH</u>	<u>OM%</u>	<u>Clay%</u>
P	6.03	1.19	
IR	6.59	0.33	

p. p. m

	<u>p</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>
P	360	84	169	
IR	183	63	1419	38

Age: 15 months - April '60 - June '61  
 22 months - June '61 - May '63

Rainfall: P 54.73"  
 IR 69.62"

Object: To compare different soil sterilization treatments with a control.

Treatments: A = Control  
 B = E.D.B. 20 G.P.A.  
 C = E.D.B. 40 G.P.A.  
 D = E.D.B. 60 G.P.A.  
 E = E.D.B. 30 G.P.A. in Line  
 F = E.D.B. 40 G.P.A. + 30 T.P.A. Lime 50% Hoisture.

Results:

TREATMENTS	PLANT CANE			1ST RAPOON		
	T.C.A.	% SUCROSE	T.S.A.	T.C.I.	% SUCROSE	T.S.I.
A	31.8	12.88	4.10	17.7	12.48	2.24
B	53.7	11.70	6.29	24.8	12.17	3.03
C	53.5	11.52	6.16	20.8	12.30	2.58
D	49.2	12.03	5.92	21.5	11.93	2.54
E	54.4	11.53	6.29	22.3	11.94	2.67
F	54.1	11.36	6.13	25.2	11.06	2.78