

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

NEMATODE TRIAL NO. 2

Catalogue No.: 73  
This Crop: P, 1R, 2R.  
Site: Norsworthy, Mwawine.  
Altitude: 300'  
Soil Series: Clansthal  
Design: Random Block  
Variety: N:Co.376  
Fertilizer: N      P      K  
P Amm. Nit. 600   -      400  
1R Amm. Nit. 600   -      400  
2R Urea            400   -      250  
Water Regime: Dryland.

Soil Analysis:

	pH	OM%	Clay%
P	6.61	1.10	-
1R	-	-	-
2R	6.20	0.61	-

p.p.m.

	P	K	Ca	Mg
P	395	108	124	-
1R	-	-	-	-
2R	350	212	448	159

Age: P 19 months - April '58 - Oct. '59  
1R 24 months - Oct. '59 - Oct. '61  
2R 19 months - Oct. '61 - June '63

Rainfall: P - 49.47"  
1R - 87.53"  
2R - 63.05"

Object: To compare different soil fumigants each at two levels, with a control.

Treatments:

	<u>LOW</u>	<u>HIGH</u>
A = 2.25 E.D.B. @	30 G.P.A.	60 G.P.A.
B = 4.5 E.D.B. @	15 G.P.A.	30 G.P.A.
C = Shell "DD" @	25 G.P.A.	50 G.P.A.
D = Nemagon @	10 G.P.A.	20 G.P.A.
E = Control	Nil	Nil

Results:

TREATMENT	PLANT CANE			1ST RATOON			2ND RATOON		
	T.C.A.	% SUCROSE	T.S.A.	T.C.A.	% SUCROSE	T.S.A.	T.C.A.	% SUCROSE	T.S.A.
A : Low	43.3	12.45	5.39	63.5	14.13	8.97	22.6	12.56	2.84
High	54.0	12.10	6.53	68.1	14.09	9.60	23.1	12.54	2.90
B : Low	57.6	12.15	7.00	76.2	14.06	10.71	25.6	12.75	3.26
High	54.2	12.13	6.57	69.9	14.29	9.99	29.4	12.65	3.72
C : Low	43.8	12.93	5.66	52.9	14.29	7.56	21.3	13.49	2.87
High	48.1	12.60	6.06	58.7	14.15	8.31	22.5	13.14	2.96
D : Low	47.6	12.40	5.90	61.7	14.14	8.72	19.8	12.57	2.49
High	48.3	12.49	6.03	61.5	14.48	8.91	35.4	12.25	4.34
E : Control	48.3	12.36	5.97	52.3	14.09	7.37	23.9	12.84	3.07