

SOUTH AFRICAN SUGAR ASSOCIATION

AGRONOMISTS' ASSOCIATION

Code: NT24/79/P

Catalogue No.: 1207

TITLE: Nematicides x Varieties under irrigation (Glendale).

1. Particulars of the project

This crop : Plant  
Site : Glendale-Satan field  
Region : North Coast  
Soil system : River Valley  
Soil form/ : Weak alluvial sand  
Series : (TMS boulder beds)  
Design : Randomised block  
Variety : N8 and NCo 376  
Fertilizer/ : N P K Zn  
In furrow : 11 37 150 0,36  
Topdressing : 70 - 70

Soil analysis: Date: Pre-plant

<u>pH</u>	<u>O.M.%</u>	<u>Clay %</u>	<u>P.D.I.</u>
7,03	-	5	-

ppm

<u>P</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>	<u>Zn</u>	<u>Al</u>
51	67	572	125	2,4	-

Age: 12 months Dates: Oct 79 - Oct 80

Rainfall: 666,0 mm L.T.M.: 910,5

Irrigation: 38 mm gross on minimum 5 day cycle

<u>Rainfall:</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>
	69	36	73	58	35

<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>
40	39	21	0	4	17	221	53

2. Objectives

To determine the response of N8 and NCo 376 to nematicides in a weak sand when irrigated on a minimum 5 day cycle.

3. Treatments

1. Control
2. Temik (15G) 20 kg/ha
3. Temik (15G) 20 kg/ha
4. Curaterr (10%G) 30 kg/ha

Results

Treatment	Cane t/ha	Ers % cane	Ers t/ha	Stalk length (cm)	Stalk popu 10 <sup>-3</sup> /ha
<u>NCo 376</u>					
Control	79	11,5	9,2	157	171
Temik	76	11,4	8,7	159	182
Temik	79	11,6	9,2	166	190
Curaterr	70	11,6	8,0	157	183
Mean	76	11,5	8,8	160	182
C.V. %	23,1	5,5	23,6	13,2	9,1
L.S.D. (0.05)	24,2	0,87	2,85	28,9	22,7
<u>N8</u>					
Control	67	11,5	7,7	201	132
Temik	72	12,1	8,5	197	127
Temik	54	11,9	6,5	193	118
Curaterr	62	11,9	7,4	201	127
Mean	64	11,8	7,5	198	126
C.V. %	25,8	7,1	21,0	8,8	12,7
L.S.D. (0,05)	22,7	1,15	2,17	24,0	21,9

Comments

1. Irrigation was inadequate and the site was poorly drained, resulting in substantial variability and an unacceptable C.V. % in both trials.
2. For the above reasons the trials have unfortunately had to be discontinued.

RD/VJ  
27 November 1980