

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Code: NT20/79/R3

Cat. No.: 1209

TITLE: Temik applied to ratoon cane at different times of the year (Illovo).

1. Particulars of the project

This crop : Third ratoon  
Site : Illovo Sugar Co  
Region : South Coast  
Soil system : Berea  
Soil form : Middle Ecca  
Series : Recent sand  
Design : Randomised block  
Variety : N55/805  
Fertilizer : N    P    K  
Top dressing : 140    0    140

Soil analysis: Date: pre treatment

<u>pH</u>	<u>O.M.%</u>	<u>Clay %</u>	<u>P.D.I.</u>
6,00	-	5	0,68

ppm

<u>P</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>	<u>Zn</u>	<u>Al</u>
780	77	629	63	-	-

Age: 17,5 months    Dates: 3.5.1979-15.10.1980

Irrigation: Nil    L.T.M.: 1190

<u>Rainfall</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>
964	16	2	180	51	56	86	58

<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>
110	106	29	35	34	18	12	4	24

<u>Sep</u>	<u>Oct</u>
142	3

2. Objectives

To carry out a series of trials in four different regions to compare the effects of Temik applied at different times of the year on ratoon crops treated on different occasions after harvesting.

3. Treatments

Control: No Temik

To: Temik 20 kg/ha applied at harvest

T1: Temik 20 kg/ha applied 1-2 months after harvesting

T2: Temik 20 kg/ha applied 3-4 months after harvesting

Dates of treatment	Trial I	Trial II
T0	3. 5.79	6. 9.79
T1	5. 7.79	11.10.79
T2	6. 9.79	15.11.79

4. Results

Trial I

Treatments	Cane t/ha	Ers % cane	Ers t/ha	Stalk length (cm)	Population x10 <sup>-3</sup>
Control	61	14,7	9,0	152	121
T0	62	14,3	8,9	148	123
T1	69	14,6	10,1	157	128
T2	57	14,6	8,4	149	113
Mean	62	14,6	9,1	151	121
L.S.D. (0,05)	15,2	1,02	2,4		20,2
C.V. %	17,7	5,1	19,1		12,1
Trial II					
Control	48	13,0	6,3	121	116
T0	45	12,2	5,6	123	112
T1	46	12,5	5,8	116	111
T2	43	13,0	5,6	117	109
Mean	46	12,7	5,8	119	112
L.S.D (0,05)	13,5	11,5	2,1		18,7
C.V. %	21,4	6,5	2,6		12,1

5. Comments

The soil is derived more from Ecca Shale than aeolian sand and is not the situation unfortunately where responses to nematicides are likely to occur.

The severe drought resulted in poor yields.

This trial has been terminated.