## SOUTH AFRICAN SUGAR INDUSTRY AGRONOMISTS' ASSOCIATION

Code : NT26/79/R

Cat. No.: 1216

## CURATERR X PLACEMENT X HERBICIDES (EMPANGENI)

#### 1. Particulars of the project:

This crop	:	Ratoon			Soi	l a	naly:	sis:						
<u>Site</u>	:	Mr. R.(		oynton's ngeni	pŀ	<u> </u>	<u>(</u>	0.M.9	<u>4</u>	<u>C1a</u>	y %	<u>!</u>	P.D.	<u>I</u> .
Region	:	Zulular	nd		5,3	}		-		4	4		-	
Soil system	:	Berea							Di	pm				
Soil form/series	:	Fernwoo	bd	1	P		K	Ca		Mg		Zn		41
Design	:	Random	ised	block	17		83	3	1	14	(	3	•	4
<u>Variety</u>	:	N55/809	5		_					_		•		
Fertilizer	:	<u>N</u>	<u>P</u>	<u>K</u>	Age	<u>:</u> :	10,3	mon	ths	Dat	<u>es</u> :		)/79 7/80	to
19/11/79 top-dressed kg/ha	a	70,5	_	70,5	Rai	nfa	<u>11</u> : 1	703 r	nm	L.T	<u>.M</u> .:	1	033	mm
14/12/79	u	70,0		,0,0	0	N	D	<u>J</u>	F	M	A	M	<u>J</u>	J
top-dressed kg/ha	a	70,5	-	70,5	<u>5</u> 5	79	150	113	144	25	43	28	25	15

#### 2. Objectives:

To determine whether responses to Curaterr (10% G) are affected by its placement or by Sencor and diuron application.

#### 3. Treatments:

- 1. Control + Sencor and diuron.
- 2. Curaterr at 30 kg/ha (one side of row) + Sencor and diuron.
- 3. Curaterr at 30 kg/ha (one side of row) + Lasso and atrazine.
- 4. Curaterr at 30 kg/ha (both sides of row) + Lasso and atrazine.
- 5. Temik at 15 kg/ha + Lasso and atrazine.
- NOTE: Sencor and diuron were applied at the rate of 2,5 kg/ha + 2,5 kg/ha - volume sprayed was 247 l/ha.
  - $^{ullet}$  Lasso and atrazine were applied at 1,6 kg/ha + 1,25 kg/ha volumes sprayed were 240 l/ha and 189 l/ha.

## 4. Results:

# Growth characteristics at 3 monthly intervals

Treatment	Stalk p	opulatio	n x 10 <sup>-3</sup>	Height cm <sup>-1</sup>				
Age	3 mths	6 mths	9 mths	3 mths	6 mths	9 mths		
Control + S/D	268	200	162	32	118	146		
C30 one side + S/D	290	204	188	31	110	143		
C30 one side + L/A	264	200	188	33	115	132		
C30 both sides + L/A	290	204	186	34	118	150		
T20 one side + L/A	290	186	176	33	118	149		
MEAN	280	199	180	33	116	144		

### 5. Comments:

- The crop measurements do not reveal any significant responses to nematicides and therefore no assessment can be made as to the efficacy regarding the placement of Curaterr.
- Sencor and diuron did not interact with Curaterr in this situation. Reports of adverse effects from the use of Sencor and diuron in conjunction with Curaterr may be pertinent to plant cane only.

RD/HDN 23/2/1981