Code : NT 1 ETv1/86/P
Cat. No.: 1614

TITLE : Nematicides on a sandy clay loam soil

1. PARTICULARS OF THE PROJECT:

This crop : :Plant		Soil analysis :	Date : 24/7/86

Soil analysis :   Date : 24/7/86

This crop : :Plant

Site :   :Mhlati Block 2

Region :   :Northern irrigated

Soil system :Komatipoort

Soil form : :Shortlands

Design   :Randomised block 6 reps

Variety   :N14

Fertilizer/ : N   P   K
Ameliorants 150   15   90
       kg/ha

pH	O.M.%	Clay %	P.D.I.
7,60	1,45	24	–

ppm

P	K	Ca	Mg	Zn	Al
>80	107	1350	830	–	–

Age : 12,2mths   Dates : 24/7/86 –
                                31/7/87

Rainfall : 443mm

Irrigation : 1680mm

2. OBJECTIVES :

To determine whether irrigated cane grown in soils with a clay content greater than 10% responds to the application of nematicides.

3. TREATMENTS :

1. Control A – no nematicide
2. Control B – no nematicide
3. Temik at 20kg ha^{-1}
*4. Temik 10kg ha^{-1} + 10kg ha^{-1}
5. Curaterr at 30kg ha^{-1}
*   2nd application 8 weeks after planting

Note on treatments.

The second application of Temik was applied over the emerging cane rows.

4.   RESULTS :

Treatments	Cane tha^{-1}	Suc %c	Suc tha^{-1}	Stalk pop$_1$ (x1000ha-^{1}) at 5,5mths	Stalk lengths (cm) at 5,5mths
Control A	111	14,0	15,5	165	85
Control B	113	13,5	15,3	162	85
Temik 20kg	125	13,8	17,3	174	101
Temik 10kg+10kg	130	-	-	169	100
Curaterr 30kg	126	-	-	158	90
MEAN	121			166	92
C.V. %	11,1				
LSD (P=0,05)*	18,0				
S.E.D.$\pm$	8,5				

COMMENTS

*   Growth measurements 5,5 months after planting showed small respon-
    ses to Temik. No growth measurements were done at harvesting
    because of lodging.

*   The response of 18 t c ha-^{1} from the split application is statis-
    tically significant (P=0,05). It is possible that the split appli-
    cations of Temik to plant cane may produce better responses under
    irrigated conditions. See NT3 (Cat. No.   ).

*   Responses to Temik and Curaterr applied as single treatments were
    similar (ns).

RAD/lp
2/12/87