

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Cat No : 1710
 Project No :
 Code No : RVT(CH)5/86

Title : Released variety trial with N19 at Paddock

1. Particulars of project

		Soil analysis Date: 20/10/89 (End R2)					
This crop	: 2nd Ratoon	pH	OM %	Clay%	PDI	Nat-Cat 2	
Site	: Paddock	5,1	2,8	13			
Region	: Coastal Hinterland						ppm
Soil system	: Umzinto	P	K	Ca	Mg	Zn	Al
Soil form/series	: Longlands/Longlands	30	89	324	75	74,0	5
Design	: Random blocks	Age : 10,9 months					
Variety	: See treatments	Dates : 9/11/88 - 6/10/89					
Fertilizer/ Ameliorants	: N 164 P 32 K 164	Rainfall : 782				LTM : 1078 mm	
		Irrigation: Nil					

1988/89	N	D	J	F	M	A	M	J	J	A	S
Rainfall (mm)	77	137	38	297	18	147	7	38	1	1	21
LTM	114	112	113	222	147	55	28	32	30	54	171

2. Objectives

To assess the released variety, N19 for TMS soils of the coastal hinterland.

3. Treatments

- Varieties:
1. NCo376
 2. N12
 3. N16
 4. N19

4. Results

Second ratoon at 10,9 months

Variety	NCo376	N12	N16	N19	Mean	LSD 5%	CV %
Yield component							
Stalk data							
Population 000/ha	156	160	140	121	144		
Height (m)	137	131	141	154	141		
Eldana/100 stalks	0	0	0	0			
Yield data							
Purity	88,8	90,9	91,0	92,5	90,8		
ERS % cane	11,7	13,2	12,6	13,6	12,8		
Cane t/ha	80	78	78	75	78	7,2	8
Pol % cane	13,2	14,6	14,0	14,9	14,2	0,6	3
Suc t/ha	10,6	11,4	10,9	11,1	11,0	1,0	8
Yield Suc t/ha as percent of NCo376	100	108	103	105			

Comments

1. The crop was harvested at a young age (10,9 months) as the result of a runaway fire.

The months prior to harvest were very dry and cane quality and sucrose yield was generally high in the varieties. N12 yielded surprisingly well as this variety does not normally favour young harvesting.

The trial continues into the third ratoon.

RKmcI/cvp
14 June 1990