

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Pre-release Variety Trial

Catalogue No.: 92
This crop: P, 1R.
Site: Boundary, Muckleneuk
Altitude: 300'
Soil: Windermere
Design: Random block
Variety: C.B.36/14, C.B.38/22,
H.50/211, N:Co.376.
Fertilizer: N P K
Plant : Urea 250 300 250
1 R. : LAN 1000 500 200

Soil Analysis:

	pH	OM %	Clay %	p.p.m.			
	P	-	-	P	K	Ca	Mg
1R	5.98	2.20	19.2	19	127	510	244

Age:

P = 16mths. Oct. 1962 - Feb. 1964
1R = 11 " Feb. 1964 - Jan. 1965

Rainfall:

P - 60.52"
1R - 24.19"

Object: To compare N:Co.376 and N.50/211 with two new varieties.

Results:

Item	Crop	CB. 36/14	CB. 38/22	N.50/211	N:Co.376
T.C.A.	P.	58.0	47.2	54.0	57.6
	1R.	71.9	44.8	68.0	71.7
Suc. %	P.	13.2	13.7	13.9	13.6
	1R.	11.3	11.4	10.4	11.6
T.S.A.	P.	7.66	6.48	7.51	7.85
	1R.	8.15	5.09	7.05	8.28

27th May, 1966.

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PRE-RELEASE VARIETY TRIAL.

Catalogue No: 92
This crop: 3rd Ratoon
Site: Boundary U.V. Est.
Altitude: 300 ft.
Soil series: Windermere
Design: Random block
Variety: CB 36/14, CB38/22,
 N50/211, N.Co376.
Fertilizer:
 Urea 200 lbs/a
 D/Supers 200 lbs/a
 Mur. of Potash 200 lbs/a
Water regime: Dry land

Soil Analysis:

	<u>pH</u>	<u>OM%</u>	<u>Clay%</u>
3R	5.33	2.63	20.7
	<u>p.p.m.</u>		
	<u>P</u>	<u>K</u>	<u>Ca</u> <u>Mg</u>
	20	179	789 266
<u>Age:</u>	16 mths	12/65	- 5/67
<u>Rainfall:</u>	48.06"		
<u>Irrigation:</u>	-		

Results:

VARIETIES	T.C.A.	% SUCROSE	T.S.A.
CB36/14	67.7	12.5	8.44
CB38/22	46.9	12.2	5.70
N50/211	62.6	12.7	7.93
N.Co 376	70.1	12.5	8.74
S.E. Single Yield		8.27	
C.V.		13.38%	
L.S.D. between treatments @ 5%		13.21	T.C.A.
L.S.D. @ 1%		18.98	T.C.A.

Comments:

The order in which the varieties are placed has been maintained for every crop harvested. CB.38/22 appears to be definitely unsuited to these conditions.