SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

PRE-RELEASE CB VARIETY TRIAL

Catalogue No.: 175.

This Crop: Plant.

Site: Doornkop Section, Doornkop.

Altitude: 1,300 ft. Soil Series: Cartref.

Design: Random Block, 4 reps.

Variety: Various.

Fertiliser, lb.p.a.: 100N; 150K.

Water Regime: Dryland.

Soil Analysis:

 $p_{\bullet}p_{\bullet}m_{\bullet}$ \overline{P} K Ca Mg OM% рH 5.1 2.8 10 30 200

Age: P. 20 months. (11/62 - 7/64).

62.81"

Rainfall:

Object:

To compare CB.36/14 and CB.38/22 with the released varieties N:Co.293 and N:Co.376.

Treatments: N:Co.293, N:Co.376, CB.36/14, CB.38/22.

Results:

	Plant (20 months)				
Variety	Tons Cane p.a.	Sucrose % Cane	Tons Suc.	T.S.p.a. as % of N:Co.293	
N:Co.293	77•56	15.49	12.02	100	
CB. 36/14	71.61	14.46	10.36	86	
CB. 38/22	55.61	15.61	8.69	72	
N:Co.376	66.89	14.18	9.46	79	

13th May, 1966.

SOUTH AFRICAN SUGAR INDUSTRY

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PRE-RELEASE CB VARIETY TRIAL

<u>Catalogue No.:</u> 175. <u>This Crop:</u> lst Ratoon.

Site: Doornkop Section, Doornkop.

Altitude: 1,300 ft. Soil Series: Cartref.

Design: Random Block, 4 reps.

Variety: Various.

Fertiliser, lb.p.a.: 100N; 150K.

Water Regime: Dryland.

Soil Analysis:

p.p.m. Mg pН OM% K Ca 5.1 2.8 10 30 200

15 months. (7/64 - 11/65). Age: Rl.

Rainfall: 35.14"

Object:

To compare CB.36/14 and CB.38/22 with the released varieties N:Co.293 and N:Co.376.

Treatments:

N:Co.293, N:Co.376, CB.36/14, CB.38/22.

Results:

lst Ratoon						
Variety	Tons Cane p.a.	Sucrose % Cane	Tons Suc. p.a.	T.S.p.a. as % of N:Co.293		
N:Co.293	36.01	12.24	4.41	100		
CB. 36/14	28.32	12.13	3.44	78		
CB. 38/22	28.09	12.62	3·5 ⁴	80		
N:Co.376	22.56	11.90	2.68	61		

Comments:

- As with the plant cane results, N:Co.293 has yielded the highest in this trial.
- (2) CB. 38/22 enjoys second place with CB. 36/14, after the former variety's poor showing as plant cane.
- N:Co.376 and CB.38/22 appeared to suffer the most from drought effects but whereas N:Co.376's response and recovery following the Spring rains was poor, CB.38/22 responded exceptionally well.
- The placement of varieties as to Sucrose % Cane in 1st Ratoon is identical to that obtained in Plant Cane.

SOUTH AFRICAN SUGAR INDUSTRY AGRONOMISTS' ASSOCIATION

PRE-RELEASE C.B. VARIETY TRIAL.

Catalogue No.: 175

This Crop: 3rd Ratoon

Site: Doornkop Section, B13(Z)

Doornkop

Altitude: 1,300 ft. Soil series: Cartref

Design: Random block, 4 Reps.

Variety: Various

Fertilizer: 120N; 150K. Water Regime: Dryland.

Soil Analysis:

pH OM% P K Ca Mg
5.2 2.76 12 33 212 -

Age: R3: 11 months; 8/66 - 7/67.

Object:

To compare C.B. 36/14 and C.B. 38/22 with the released varieties N:Co.293 and N:Co.376.

Treatments:

C.B. 36/14 C.B. 38/22 N:Co. 293 N:Co. 376

Results:

VARIETIES	T.C.A.	s. % c.	T.S.A.
N:Co.293	44.9	12.6	5.62
C.B.36/14	37.2	14.0	5.19
C.B.38/22	33.5	13.4	4.49
N:Co.376	35.9	13.0	4.67
Mean	37.9	13.2	4.99
S.E. of Mean	2.23	0.26	0.280
L.S.D. (0.05)	7.1	0.8	0.90
(0.01)	10.2	1.2	1.29
C.V. %	11.7	3.9	11.2