SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

PRE-RELEASE TRIAL (53/216, 52/219)

Catalogue No: 140 This crop: Plant

Site: Tugela Section Darnall

Blackhill field

Altitude: 300'

Soil series: Red sands Clansthal

Design: Latin Square
Variety: See treatments

Fertilizer: Supers 8.3% P 800 lb./ac.

15:0:15 600 lb./ac.

15:0:15 600 lb./ac.

Water regime: Dryland

Soil Analysis:

р.р.м. pH P K Ca Mg 5.6 VH 50 500 160

Age: 23 months (1/62 - 12/63

Rainfall: 79.70"

Object: To test pre-release varieties.

Treatments: 1. N:Co.376

2. N:Co.293

3. N53/216 (Samson)

4. N52/219 (Salute)

Results:

Variety	T.C.A.	Suc. %	T.S.A.	1 2		Rank	
				T.C.A.M.	Lb./8.A.M.	1	2
376	69.50			2.994		1	
293	66.15	Spoi	lt	2.850		. 2	
53/216	47.73	Samp	le	2.056		4	
52/219	61.99			2.671		3	

Due to mixed samples for suc. % cane only the tons cane per acre results will be presented.

Conclusions: Note the relative poor performance of N53/216.

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PRE-RELEASE TRIAL (53/216, 52/219)

Catalogue No: 140

This crop: 2nd Ratoon

Site: Tugela Darnall Black Hill Field

Altitude: 100'

Soil Series: Poor Clansthal sand

Design: 4 x 4 Latin Sq. Variety: See Treatments

Fertilizer: 10:5:15 at 1200 lbs/a

Water regime: Dryland.

Soil analysis:

p.p.m.

pH OM% Clay% P K Ca Mg 5.0 - - VH 92 360 485

Age: 18 months (1/65 - 7/66)

Rainfall:

Irrigation: Nil

Object: To test pre-release varieties against released varieties.

Treatments:

1. N:Co.376

2. N:Co.293

3. N.53/216

4. N.52/219

Results:

Wasai a haa	T.C.A.	0′ C	m	A	B Lbs S.A.M.	Rank	
Variety		% Sucrose	T.S.A.	T.C.A.M.		A	В
N:Co.376	59.23	14.07	8.334	3.291	926	1	1
N:Co.293	14.78	13.25	1.958	0.821	218	4	4
N.53/216	21.31	14.73	3.139	1.184	348	2	3
N.52/219	26.39	14.22	3.753	1.466	418	3	2

S.E. = $\frac{1}{2}$ 6.69 C.V.% = 21.9

Treatment differences significant at 1% and 5% L.S.D. between treatments = 11.57 T.P.A. at 5%

= 17.53 T.P.A. at 1%

Comments:

The soil variation within the experiment was noticeable which has contributed to the very high coefficient of variance. The very poor performance of N.53/216 should be noted in comparison with N:Co.376.