

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

PRE-RELEASE TRIAL (168, 539)

Catalogue No.: 123.
This Crop: Plant.
Site: Sprowston Section, Darnall,
Whitfield Field.
Altitude: 1300'
Soil Series: Dolerite Sprintz.
Design: Random Block.
Variety: See treatments.
Fertilizer:

Supers 8.3% P 800
L.A.N. 20% N 300
M. Potash 50% K 200
15 : 0 : 15 800

Water Regime: Dryland.

Soil Analysis:

pH p.p.m.
P K Ca Mg
3.9 11 84 200 350

Age: 23 months (3/61 - 2/63)

Rainfall, this crop: 84.86"

Object: To test pre-release varieties.

Treatments: 1. N.51/539.
2. N.51/168.
3. N:Co.376.
4. N:Co.293.

Results:

Variety	T.C.A.	% Sucrose	T.S.A.	T.C.A.M.	Lbs. S.A.M.	Rank	
						1	2
N.51/539	35.8	14.67	5.25	1.556	456	3	3
N.51/168	35.2	15.02	5.29	1.530	460	4	2
N:Co.376	43.9	13.32	5.85	1.908	508	1	1
N:Co.293	36.9	-	-	1.604	-	2	4

Statistical Results - At Experiment Station.

Conclusions:

N.51/539 and N.51/168 showed no improvement over N:Co.376.

13th May, 1966.

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PRE-RELEASE TRIAL (168/539)

<p><u>Catalogue No:</u> 123 <u>This Crop:</u> 2nd Ratoon <u>Site:</u> Sprowston, Kearsney (Whitfield Field) <u>Altitude:</u> 1300' <u>Soil Series:</u> Sprintz <u>Design:</u> Random Block <u>Variety:</u> See Treatments <u>Fertilizer:</u> 15:0:15 800 lbs/ac <u>Water Regime:</u> Dry land</p>	<p><u>Soil Analysis:</u></p> <table border="1"> <thead> <tr> <th rowspan="2">pH</th> <th rowspan="2">OM%</th> <th rowspan="2">Clay%</th> <th colspan="4">p.p.m.</th> </tr> <tr> <th>P</th> <th>K</th> <th>Ca</th> <th>Mg</th> </tr> </thead> <tbody> <tr> <td>4.9</td> <td>7.28</td> <td>1</td> <td>10</td> <td>108</td> <td>300</td> <td>189</td> </tr> </tbody> </table> <p><u>Age:</u> 21 Months (9/64 - 7/66) <u>Rainfall:</u> 78.16" <u>Irrigation:</u> Nil</p>	pH	OM%	Clay%	p.p.m.				P	K	Ca	Mg	4.9	7.28	1	10	108	300	189
pH	OM%				Clay%	p.p.m.													
		P	K	Ca		Mg													
4.9	7.28	1	10	108	300	189													

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

- Treatments:
1. N.51/539
 2. N.51/168
 3. N:Co.376
 4. N:Co.293

Results:

Variety	T.C.A.	% Sucrose	T.S.A.	A T.C.A.M.	B lbs. S.A.M.	Rank	
						A	B
N.51/539	50.85	15.91	8.090	2.421	870	2	2
N.51/168	43.11	15.80	6.811	2.053	648	4	4
N:Co.376	73.53	13.91	10.228	3.501	974	1	1
N:Co.293	44.86	15.96	7.160	2.186	682	3	3

S.E. = \pm 9.16 Treatment differences significant at 5%
 C.V. = 17.2% L.S.D. between treatments = 5.79 T.P.A. at 5%

Comments: Adjacent trees affecting growth within the experiment has lead to a high coefficient of variation. Nevertheless yields clearly indicate that N:Co.376 is superior to all other varieties, with N.51/539 significantly better than N.51/168.

28th November, 1966