

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

PRE-RELEASE TRIAL (168, 539)

Catalogue No.: 124
This Crop: Plant.
Site: Holwood Section, Darnall,
Avenue West Field.
Altitude: 900'
Soil Series: T.M.S. Trevanian
Design: Latin Square.
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.				OM %
	P	K	Ca	Mg	
5.7	42	65	-	-	2.17

Age: 23 Months. (3/61 - 2/63).

Rainfall, this crop: 72.30"

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	45.2	14.18	6.41	1.965	557	2	2
N.51/168	42.9	14.09	6.39	1.865	555	4	3
N:Co.376	47.5	14.28	6.78	2.065	589	1	1
N:Co.293	45.1	14.07	6.35	1.960	552	3	4

Statistical Results - At Experiment Station.

Conclusions:

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

13th May, 1966.

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PRE-RELEASE TRIAL (168 - 539)

Catalogue No.: 124
This crop: 3rd Ratoon
Site: Holwood Kearsney Aven. West
Altitude: 900'
Soil series: T.M.S. Trevanian
Design: Latin square
Variety: See treatments
Fertilizer: 4 : 1 : 6 @ 1200 lbs/a.

Soil Analysis:

<u>pH</u>	<u>OM%</u>	<u>Clay %</u>
5.7	2.17	

p.p.m.

<u>P</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>
42	65	-	-

Age: 14 months (8/66 - 10/67)

Rainfall: 49.56"

Irrigation: Nil.

Water regime: Dryland.

Object: To test pre-release varieties.

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

Results:

Variety	T.C.A.	% Sucrose	T.S.A.	A		B		RANK	
				T.C.A.M.	Lbs. S.A.M.	Lbs. S.A.M.		A	B
N:Co.376	39.55	15.66	6.154	2.825	879			1	1
N.51/168	36.43	14.33	5.220	2.602	746			2	2
N:Co.293	32.17	15.50	4.986	2.298	712			3	3
N.51/539	29.74	16.18	4.812	2.124	687			4	4

S.E. = \pm 6.119

C.V. = 17.71%

Difference between treatments not statistically significant.

N:Co.376 has remained in first place with N.51/168 recovering to second place and N.51/539 falling to the lowest yield. N.B. high C.V.

30th October, 1968.