

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

PRE-RELEASE TRIAL (168 539)

Catalogue No.: 125
This crop: Plant
Site: Prospect Section Darnall
House field
Altitude: 300'
Soil Series: Dwyka Williamson
Design: Random Block
Variety: See treatments
Fertilizer:
Supers 8.3% P 800 lb./acre
L.A.N. 20% N 300 lb./acre
M. Potash 50% K 200 lb./acre
15 : 0 : 15 800 lb./acre
Water regime: Dryland

Soil Analysis:

pH	p.p.m.			
	P	K	Ca	Mg
5.9	3	103	1460	330

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

Rainfall: 83.43"

Object: To test Pre-release varieties.

Treatments: 1. N51/539
2. N51/168
3. N:Co.376
4. N:Co.293

Results:

Variety	T.C.A.	Suc. %	T.S.A.	1	2	Rank	
				T.C.A.M.	lb. S.A.M.	1	2
539	37.4	12.60	4.71	1.626	409	2	3
168	32.6	14.50	4.73	1.417	411	4	2
376	37.2	12.20	4.54	1.617	394	3	4
293	47.3	12.20	5.77	2.056	501	1	1

Statistical results at Experiment Station

Conclusions: The poor yields of N:Co.376 on Dwyka should be noted, nevertheless neither N51/539 nor N51/168 showed any merit.

SOUTH AFRICAN SUGAR INDUSTRY

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PRE-RELEASE VARIETY TRIAL

Catalogue No: 125
This crop: 2nd Ratoon
Site: Prospect Estate, Darnall
 (House Field)
Altitude: 300'
Soil Series: Williamson
Design: Random Block
Variety: See treatments
Fertilizer: Not recorded
Water Regime: Dryland

Soil Analysis:

			ppm			
pH	OM%	Clay%	P	K	Ca	Mg
5.4	3.7	-	4	83	380	222

Age: 19 months (1/65 - 8/66)
Rainfall: 56.66"
Irrigation: Nil.

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.	A. T.C.A.M.	B. lbs S.A.M.	Rank	
						A	B
N.51/539	50.93	15.81	8.052	2.681	848	4	3
N.51/168	52.93	15.02	7.950	2.786	836	3	4
N:Co.376	56.93	14.67	8.352	2.996	880	2	2
N:Co.293	66.65	15.54	10.357	3.508	1090	1	1

S.E. = + 7.04
 C.V. = 12.3%

Treatment differences significant at 5%
 L.S.D. between treatments = 11.26 T.P.A. at 5%

Comments:

The unusually high yield of N:Co.293 eclipsed all other varieties including N:Co.376. Neither N.51/539 nor N.51/168 have shown merit in this trial.

29th November, 1966.