## SOUTH AFRICAN SUGAR INDUSTRY

## AGRONOMISTS' ASSOCIATION

## PRE-RELEASE VARIETY TRIAL

Catalogue No: 119 This Crop: 3rd Ratoon	<u>Soil Analysis</u> :
<u>Site</u> : Cornubia Sect. N.E.L. (Massal Field)	ppm pH OM% Clay% P K Ca Mg
Soil Series: Clansthal sand Design: Random block Variety: See treatments Fertilizer: 4:1:6 1200 lbs/ac Water regime: Dryland	Age: 22 months (8/64 - 6/66) Rainfall: 60.72" Irrigation: Nil

Object:

To test pre-release varieties.

Treatments:	1.	N.51/539
	2.	N:Co.376
	3.	N.50/211
	4.	N.51/168

#### Results:

Vaniatu	шал	%		Λ. (	B. Lbs	Rank	
variety	1.0.A.	Sucrose	I''O'H'	T.C.A.M.	S.A.M.	А	В
N.51/539	52.39	14.77	7.738	2.381	704	4	3
N:Co.376	58.83	13.98	8.224	2.674	748	1	. 1
N.50/211	55.52	13.35	7.472	2.523	674	2	4
N.51/168	54.23	. 14.60	7.918	2.465	720	3	2

## Comments:

In the lst, 2nd and 3rd Ratoons N.51/168 has outyielded N.51/539 by a small margin, but  $\tilde{N}$ :Co.376 and N.50/211 were consistently better than these two new varieties.

29th November, 1966.

# SOUTH AFRICAN SUGAR INDUSTRY

# AGRONOMISTS' ASSOCIATION

# Pre-Release Trial (168, 539)

Catalogue No: 119	Soil	Analysis:		
This Crop: 2nd Ratoon			p.	p.m.
Site: Cornubia Section N.E.L.	pН	0.M.%	P.	К.
Massal Field				فللاد ويرجيهم والمحادث
Altitude: 400'	8.5	0.90	72	108
Soil Series: Recent sands Lytton				
Design: Random Block	Age:	10 months	(10/6)	3 - 8/64)
Variety: See treatments.				
Fertilizer: 10:5:15 1200 lbs.	Rainf	all, this	crop:	31.34"
Water Regime: Dryland.				

Object: To test pre-release varieties.

<u>Treatments</u> :	1. 2. 3. 4.	N.51/539 N.51/168 N:Co.376 N.50/211	(sabre) (saraband)

Results:

				l	2 Lbs.	Ra	nk
Variety	T.P.A.	Suc. %	T.S.A.	T.P.A.M.	S.A.M.	1	2
539	35.76	13.63	4.87	3.576	974	4	3
168	36.83	12.10	4.45	3.683	890	3	4
376	40.97	14.66	6.00	4.097	1200	1	1
211	37.10	14.22	5.27	3.710	1054	2	2

10th May, 1966.

#### SOUTH AFRICAN SUGAR INDUSTRY

#### AGRONOMISTS' ASSOCIATION

#### Pfe-Release Trial (168, 539)

Catalogue No: 119	Soil	Analysis:		
Site: Cornubia Section, N.E.L. Massal field	pH	<u>OM %</u>	P P	om K
Altitude: 400' Soil Series: Recent Sands, Lytton	8.3	0.91	35	68
Design: Random block Variety: See treatments	Age:	13 months	(9/62 -	10/63)
Fertilizer: 10:6:10 1,200 lbs. Water Regime: Dryland	Rainf	all, this c	rop: 4	15.85"

(Sabre)

(Saraband)

Object: To test pre-release varieties.

- Treatments:
- 1. N.51/539 2. N.51/168 3. N:Co.376 4. N.50/211

Results:

Varietr		% Sug		l	2 The	Rank	
varrety	1.F.A.	10 SUC.	T.D.H.	T.P.A.M.	S.A.M.	1	2
539	51.42	13.6	6.9	3.955	1062	4	4
168	57.19	13.3	7.6	4.399	1169	3	3
376	65.02	14.5	9.4	5.001	1446	1	1
211	59.44	15.4	9.1	4.572	1400	2	2

## N.51/539, N.51/168 Variety Trials

Both N.51/539 and N.51/168 gave comparable yields in both plant and ratoon results of trials at Mt. Edgecombe and Darnall. The average yields of all experiments and stages of growth were:

	T.C.A.M.	LBS. S.A.M.
N.51/539	3.533	1034
N.51/168	3.583	973

Neither variety shows any improvement over N:Co.376 or N.50/211.

In growth N.51/539 has a better stooling but thinner and shorter sticks, whereas N.51/168 has fewer but adequate number of thicker and better sticks.