

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Pre-Release Trial (216).

Catalogue No.: 135  
This Crop: Plant  
Site: Westbrook Section, N.E.L.  
 Mt. Moriah  
Altitude: 400'  
Soil Series: Dolerite (Shortlands)  
Design: Random block  
Variety: See treatments  
Fertilizer: 3:15:3 1,000 lbs.  
 15:0:15 1,200 lbs.  
Water Regime: Furrow Irrigation

Soil Analysis:

pH	OM %	ppm	
		P	K
6.5	4.36	14	179

Age: 20 months (1/62 - 8/63)

Rainfall, this crop: 56.47"

Object: To test Pre-release varieties.

Treatments:

1. N.53/216
2. N:Co.382
3. N:Co.376
4. N:Co.310

Results:

Variety	T.C.A.	Suc. %	T.S.A.	1 T.C.A.M.	2 Lbs. S.A.M.	Rank	
						1	2
216	60.97	16.24	9.90	3.048	990	4	3
382	69.44	14.16	9.83	3.472	983	2	4
376	71.54	14.88	10.65	3.577	1065	1	1
310	64.60	15.90	10.27	3.230	1027	3	2

10th May, 1966.

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Pre-Release Trial (216)

Catalogue No.: 135  
This Crop: 1st Ratoon.  
Site: Westbrook section, N.E.L.  
Mt. Moriah  
Altitude: 400'  
Soil Series: Dolerite (Shortlands)  
Design: Random block  
Variety: See treatments  
Fertilizer: 10:5:15 1,200 lbs.  
Water Regime: Furrow irrigation

Soil Analysis:

<u>pH</u>	<u>OM %</u>	<u>ppm</u>	
		<u>P</u>	<u>K</u>
6.5	4.36	14	179

Age: 13 months (8/63 - 10/64)

Rainfall, this crop: 33.60"

Object: To test Pre-release varieties.

Treatments:

1. N.53/216
2. N:Co.382
3. N:Co.376
4. N:Co.310

Results:

Variety	T.C.A.	Suc.%	T.S.A.	1 T.C.A.M.	2 Lbs. S.A.M.	Rank	
						1	2
216	51.04	14.95	7.63	3.926	1174	3	3
382	56.92	13.83	7.87	4.378	1210	2	2
376	66.03	13.60	8.98	5.079	1382	1	1
310	48.75	15.32	7.46	3.750	1148	4	4

10th May, 1966.

SOUTH AFRICAN SUGAR INDUSTRY

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PRE-RELEASE VARIETY TRIAL

Catalogue No.: 135  
This Crop: 2nd Ratoon  
Site: Westbrook Sect. N.E.L.  
(Mt. Moriah)  
Altitude: 400'  
Soil Series: Shortlands  
Design: 4 x 4 Latin Square  
Variety: See treatments  
Fertilizer: 4 : 1 : 6 1200lbs/A  
Water Regime: Dryland

Soil Analysis:  
pH OM% Clay % p.p.m.  
P K Ca Mg  
Age: 22 months (10/64 - 8/66)  
Rainfall: 58.52"  
Irrigation: Nil.

Object: To test pre-release varieties.

Treatments: 1. N:Co.382  
2. N:Co.376  
3. N.53/216  
4. N:Co.310

Results:

Variety	T.C.A.	% Sucrose	T.S.A.	A T.C.A.M.	B Lbs S.A.M.	Rank	
						A	B
N:Co.382	84.37	15.55	13.119	3.835	1192	1	1
N:Co.376	82.84	14.79	12.252	3.765	1114	2	2
N.53/216	76.33	15.51	11.839	3.469	1076	4	4
N:Co.310	76.93	15.40	11.847	3.497	1078	3	3

S.E. =  $\pm$  4.683

C.V. = 5.845%

Difference between treatments not statistically significant.

Comments:

A poor performance of N53/216 was recorded in both the plant and 1st Ratoon crop of this trial and is now evident in the 2nd Ratoon.

29th November, 1966.