

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Pre-release N.53/216 Variety Trial.

Catalogue No: 170
This Crop: 1st Ratoon
Site: Waterbosch Section D2(W)
 Doornkop Sugar Co.
Altitude: 1,600 ft.
Soil Series: Trevanian
Design: 4 x 4 Latin Square
Variety: Various
Fertilizer: R1 - 120 N; 0 P;
 and 100 K.
Water Regime: Dryland

Soil Analysis:

pH OM % Clay%
 5.6 3.4

ppm

P	K	Ca	Mg
1.76+	298	1887	483

Age: R1 - 13 months 10/63 - 10/64
 P - 20 months 1/62 - 10/63

Rainfall: R1 - 36.58 P - 55.62

Object:

To compare N.53/216 with the released varieties N.50/211, N:Co.376 and N:Co.293.

Treatments: N:Co.293, N:Co.376, N.50/211, N.53/216

Results:

Crop	1st Ratoon				Plant			
	Variety	T.C.A.	Suc.%	T.S.A.	TSA as % N:Co.293	T.C.A.	Suc.%	T.S.A.
N:Co.293	31.42	14.51	4.56	100	63.46	15.66	9.94	100
N:Co.376	40.97	14.35	5.88	129	66.15	14.43	9.57	96
N.50/211	42.24	14.84	6.27	138	69.67	14.83	10.33	104
N.53/216	35.76	14.79	5.29	116	55.21	15.39	8.50	86

Comments:

Although N.53/216 has improved its position in 1st Ratoon in relation to N:Co.293, it still appears inferior to N:Co.376 and N.50/211.

16th May, 1966.