

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Post-release variety trial

Catalogue No: 163  
This crop: P and 1R.  
Site: Perrins section, Umkomaas  
Altitude: 300'  
Soil series: Waldene  
Design: Random block, 5 replications  
Varieties: See treatments  
Fertilizer:

N	P	K
172	52	260

Water regime: Dryland

Soil Analysis: No samples taken

Age: P 20 mths. (11/56 - 7/58)  
 1R 24 mths. (7/58 - 7/60)

Rainfall: P  
 1R

Object: To compare the yields of seven released varieties.

Treatments: N:Co.'s 292, 293, 310, 334, 339, 376, 382.

Results:

	Plant			1st. Ratoon		
	T.C.A.	Suc. %	T.S.A.	T.C.A.	Suc. %	T.S.A.
N:Co.292	49.0	16.17	7.89	41.5	14.87	6.16
293	51.2	15.66	8.01	41.1	15.43	6.38
310	49.8	17.05	8.48	46.6	17.20	8.01
334	42.6	17.53	7.44	34.5	16.38	5.65
339	55.0	15.93	8.80	46.1	16.49	7.59
376	63.8	16.96	10.82	55.1	16.83	9.29
382	69.3	15.31	10.58	51.4	15.32	7.84
Mean	54.4	16.37	8.86	45.2	-	7.27
S.E. single plot	± 7.27		±1.30	±5.86		±0.93
L.S.D. (0.05)	9.49		1.70	7.65		1.21
(0.01)	12.86		2.31	10.36		1.64
C.V. %	13.4		14.7	13.0		1.28

9th May, 1966.

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Released Variety Trial

<u>Catalogue No.:</u> 163	<u>Soil Analysis:</u> No samples taken
<u>This crop:</u> Plant	<u>Age:</u> 20 mths. (11/56 - 7/58)
<u>Site:</u> Perrins section, Umkomaas	<u>Rainfall:</u> 74.84"
<u>Altitude:</u> 300'	
<u>Soil series:</u> Waldene	
<u>Design:</u> Random block, 5 reps.	
<u>Varieties:</u> See treatments	
<u>Fertilizer:</u> N       P       K	
172    50    260	
<u>Water regime:</u> Dryland.	

Object: To compare the yields of seven released varieties.

Treatments: N:Co.'s 292, 293, 310, 334, 339, 376, 382.

Results:

Variety	T.C.A.	Suc. %	T.S.A.
N:Co.292	49.0	16.17	7.89
293	51.2	15.66	8.01
310	49.8	17.05	8.48
334	42.6	17.53	7.44
339	55.0	15.93	8.80
376	63.8	16.96	10.82
382	69.3	15.31	10.58
Mean	54.4	16.37	8.86
L.S.D. (0.05)	9.49	-	1.70
(0.01)	12.86	-	2.31

26th May, 1966.

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Released Variety Trial

Catalogue No.: 163  
This crop: 1st Ratoon  
Site: Perrins section, Umkomaas  
Altitude: 300'  
Soil series: Waldene  
Design: Random block, 5 repl.  
Varieties: See treatments.  
Fertilizer: Not recorded  
Water regime: Dryland.

Soil Analysis: No samples taken.

Age: 24 mths. (7/58 - 6/60)

Rainfall: 61.45"

Object: To compare the yields of seven released varieties.

Treatments: N:Co.'s 292, 293, 310, 334, 339, 376, 382.

Results:

Variety	T.C.A.	Suc. %	T.S.A.
N:Co.292	41.5	14.87	6.16
293	41.1	15.43	6.38
310	46.6	17.20	8.01
334	34.5	16.38	5.65
339	46.1	16.49	7.59
376	55.1	16.83	9.29
382	51.4	15.32	7.84
L.S.D. (0.05)	7.65	-	1.21
(0.01)	10.36	-	1.64

26th May, 1966.