

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Released variety trial

<u>Catalogue No.:</u> 165	<u>Soil Analysis:</u> No samples taken
<u>This crop:</u> Plant	<u>Age:</u> 25 mths. (9/56 - 10/58)
<u>Site:</u> Mr. Meyer's farm, Wartburg	<u>Rainfall:</u> 86.35"
<u>Altitude:</u> 2500'	
<u>Soil series:</u> Trevanian	
<u>Design:</u> Random block, 5 replications	
<u>Varieties:</u> See treatments	
<u>Fertilizer:</u> N P K	
120 50 100	
<u>Water regime:</u> Dryland	

Object: To compare yields of eight released varieties

Treatments: Co.331, N:Co.'s 292, 293, 310, 334, 339, 376, 382

Results:

Variety	T.C.A.	Suc. %	T.S.A.
Co.331	67.1	14.92	10.00
N:Co.292	69.3	14.64	10.16
293	80.6	16.82	13.56
310	57.8	17.58	10.20
334	44.4	16.28	7.29
339	80.2	15.29	12.24
376	78.7	15.73	12.30
382	82.9	14.71	13.40
L.S.D. (0.05)	16.87	-	2.78
(0.01)	22.75	-	3.76

26th May, 1966.

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Released variety trial

<u>Catalogue No.:</u> 165	<u>Soil Analysis:</u> No samples taken
<u>This crop:</u> 1st Ratoon	
<u>Site:</u> Mr. Meyer's farm, Wartburg.	<u>Age:</u> 24 mths. (10/58 - 11/60)
<u>Altitude:</u> 2500'	<u>Rainfall:</u> 73.18"
<u>Soil series:</u> Trevanian	
<u>Design:</u> Random block, 5 replications	
<u>Varieties:</u> See treatments	
<u>Fertilizer:</u> Not recorded	
<u>Water regime:</u> Dryland.	

Object: To compare yields of eight released varieties.

Treatments: Co.331, N:Co.'s 292, 293, 310, 334, 339, 376, 382.

Results:

Variety	T.C.A.	Suc. %	T.S.A.
Co.331	40.9	15.04	6.19
N:Co.292	52.8	14.40	7.52
293	51.7	15.99	8.30
310	34.8	16.32	5.68
334	32.3	15.02	4.83
339	56.0	16.85	9.42
376	53.1	16.00	8.53
382	53.5	15.28	8.20
Mean	46.9	-	7.33
S.E. Single plot	±9.62	-	±1.59
L.S.D. (0.05)	12.46	-	2.06
(0.01)	16.81	-	2.78
C.V. %	21.7	-	20.5

26th May, 1966.

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Released variety trial.

Catalogue No.: 165
This crop: 2nd Ratoon
Site: Mr. Meyer's farm, Wartburg.
Altitude: 2,500'
Soil series: Trevanian
Design: Random block, 5 reps.
Varieties: See treatments
Fertilizer: Not recorded
Water regime: Dryland.

Soil Analysis: No samples taken.

Age: 25 months (11/60 - 12/62)

Rainfall: 76.65"

Object: To compare yields of eight released varieties.

Treatments: Co.331, N:Co.'s 292, 293, 310, 334, 339, 376, 382.

Results:

Variety	T.C.A.	Suc. %	T.S.A.
Co.331	36.4	15.36	5.59
N:Co.292	34.8	15.07	5.24
293	47.1	16.10	7.58
310	41.9	16.04	6.72
334	23.9	15.79	3.77
339	38.0	14.93	5.67
376	46.0	15.54	7.15
382	48.1	14.23	6.84
Mean	39.5	15.37	6.07
S.E. single plot	± 8.38	-	±1.31
LSD (0.05)	10.86	-	1.69
(0.01)	14.65	-	2.28
CV %	21.2	-	21.6