

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Variety Trial

Catalogue No.: 28
 This crop: P, 1R, 2R.
 Site: Jantoni-Cranbrook.
 Altitude: 600'
 Soil: Cartref
 Design: Random block.
 Varieties: N:Co.310, 293, 292, 339,
 382, 376, 334,
 Co.331.
 Fertiliser: N P K
 Plant Amm. Nitrate 450 800 340
 1st R " " 600 500 300
 2nd R Urea 450 500 300

Soil Analysis: p.p.m.
 pH. OM % Clay % P K Ca Mg
 P 5.91 0.86 - 18 32 - -
 1R - - - - - - -
 2R 5.03 0.96 - 32 38 560 -
 Age:
 P 23 mths. Nov. 1956 - Oct. 1958.
 1R 19 mths. Oct. 1958 - May 1960.
 2R 25 mths. May 1960 - June 1962.

Object: To compare the yields of eight released varieties.

Results:

Item	Crop	N:Co.310	N:Co.293	N:Co.292	N:Co.339	N:Co.382	N:Co.376	N:Co.334	Co.331
T.C.A.	P	34.6	41.5	25.0	35.8	37.3	47.7	40.8	31.4
	1R	30.8	46.6	22.9	39.9	53.0	46.6	45.7	35.1
	2R	23.0	30.9	23.3	29.0	36.6	38.1	35.1	32.9
Suc.%	P	15.5	15.3	13.8	15.4	13.7	14.8	15.7	13.6
	1R	13.6	12.4	13.0	13.6	13.3	12.8	12.8	11.1
	2R	14.6	14.0	14.4	14.5	14.2	14.4	14.5	13.6
T.S.A.	P	5.34	6.38	3.43	5.52	5.13	7.02	6.46	4.27
	1R	4.20	5.79	2.97	5.41	7.02	5.98	5.86	3.89
	2R	3.36	4.34	3.34	4.19	5.21	5.48	5.07	4.46

30th May, 1966.