

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Variety Trial

Catalogue No.: 30
 This crop: P, 1R, 2R.
 Site: Ramugar, Inyaninga
 Altitude: 300'
 Soil: Waldene
 Design: Random Block
 Varieties: N:Co.310, N:Co.339,
 N:Co.334, N:Co.382,
 N:Co.376, N:Co.292,
 N:Co.293, Co.331.
 Fertiliser: N P K
 Plant - A/N 400 500 300 + 1200
 galls.
 molasses
 1R - Urea 450 500 300
 2R - Urea 400 400 250

Soil Analysis p.p.m.
 pH O.M.% Clay % P K Ca Mg
 P - - - - -
 1R 5.35 5.01 - 13 171 4130 1290
 2R 5.46 3.22 - 12 183 3470 726
Age:
 P - 24 mths. Oct. 1958 - Oct. 1960
 1R - 21 mths. Oct. 1960 - July 1962
 2R - 22 mths. July 1962 - May 1964
Rainfall: P 64.20"
 1R 78.07"
 2R 72.99"

Object: To compare the yields of eight released varieties.

Results:

| Item | Crop | N:Co.310 | N:Co.339 | N:Co.334 | N:Co.382 | N:Co.376 | N:Co.292 | N:Co.293 | Co. 331 |
|--------|------|----------|----------|----------|----------|----------|----------|----------|---------|
| T.C.A. | P | 56.9 | 66.8 | 66.2 | 70.2 | 69.3 | 54.3 | 68.0 | 50.9 |
| | 1R | 41.1 | 44.5 | 48.9 | 49.0 | 50.1 | 42.8 | 45.9 | 39.4 |
| | 2R | 40.1 | 48.0 | 51.6 | 55.8 | 59.9 | 41.5 | 54.1 | 44.2 |
| Suc. % | P | 15.1 | 14.5 | 14.8 | 14.3 | 14.0 | 14.5 | 14.5 | 13.8 |
| | 1R | 15.5 | 14.5 | 15.0 | 14.8 | 14.4 | 14.7 | 14.4 | 14.6 |
| | 2R | 15.1 | 14.3 | 14.4 | 14.3 | 14.3 | 14.2 | 14.5 | 13.5 |
| T.S.A. | P | 8.57 | 9.70 | 9.78 | 10.04 | 9.71 | 7.86 | 9.88 | 7.01 |
| | 1R | 6.36 | 6.48 | 7.33 | 7.25 | 7.24 | 6.29 | 6.61 | 5.76 |
| | 2R | 6.06 | 6.88 | 7.42 | 7.97 | 8.55 | 5.87 | 7.83 | 5.98 |

30th May, 1966.