

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

NITROGEN AND POTASH TIMING

Catalogue No: 110
This Crop: Plant
Site: Holwood Section,
 Darnall Maqulo Field
Altitude: 900'
Soil Series: Cartref/Trevanian
Design: Latin Square 4 x 4
Variety: N:Co.376
Fertilizer: Total Fert. Applic.
 150 lbs. N., 88 lbs.
 P., 150 lbs. K.
Rainfall this
Crop: 46.57"
Water Regime: Dry land

Soil Analysis:

P.P.M.					
p.H.	O.M.%	P.	K.	Ca.	Mg.
4.8	-	10	42	510	180

Age: 19 Months (4/63 - 11/64)

Object: To evaluate time of N & K application in plant cane.

<u>Treatments:</u>					Lbs./Acre		
					N.	P.	K.
1.	P	in Furrow @ planting			-	88	-
2.	P + N	" " " "			50	88	-
3.	P + K	" " " "			-	88	75
4.	P + N + K	" " " "			50	88	75

Results:

Treatment	T.C.A.	% Sucrose	T.S.A.	A		Rank	
				T.C.A.M.	B Lbs. S.A.M.	A	B
1	63.15	13.72	8.664	3.323	912	3	2
2	65.29	14.15	9.238	3.426	972	1	1
3	64.56	12.85	8.295	3.397	873	2	3
4	56.98	14.21	8.096	2.998	852	4	4

S.E. = \pm 4.27
 C.V. = 6.8%

Difference between treatments not statistically significant.

Comment:

No clear trend can be drawn from this experiment as to whether Nitrogen or Potash applied at planting increases yields.

26th November, 1966.