

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

TRASH AND N.P.K. PLACEMENT

Catalogue No.: 111
This crop: Ratoon
Site: Kirkley Vale Sect. Darnall
 Melrose Field
Altitude: 1100'
Soil series: T.M.S. Trevanian
Design: Latin Square
Variety: N:Co.310
Fertilizer: 1000 12 : 8 : 16
Rainfall this crop: 61.17
Water regime: Dry land.

Soil Analysis: (Field F.A.S.)

pH.	P.	P.P.M.		Mg.
		K.	Ca.	
4.5	14	109	200	320

Age: 20 Months 3/63 - 12/64.

Object: To evaluate the deep application of fertilizer.

- Treatments:
1. Top dress on trash.
 2. Top dress after burning.
 3. Deep fertilizer application under trash.
 4. Deep fertilizer application after burning.

Results:

63/64

Treatment	T.C.A.	% Sucrose	T.S.A.	A		B		RANK	
				T.C.A.M.	Lbs. S.A.M.	A	B		
1	37.10	15.71	5.828	1.855	582	2	2		
2	30.70	16.07	4.933	1.535	493	4	4		
3	39.57	15.28	6.046	1.978	604	1	1		
4	31.29	16.29	5.097	1.564	509	3	3		

S.E. = 4.354
 C.V. = 12.56%

Difference between treatments not statistically significant.

Conclusions: The ratoon cane responded equally well to fertilizer applied over the trash as compared with placement under trash in contact with the soil. A response of 7 - 8 tons cane due to trashing should be noted.

29th October, 1968.