

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

METHODS OF WEED CONTROL X VARIETIES

Catalogue No.: 167  
This crop: Plant  
Site: Stony Hill, Powerscourt  
Altitude: 2500'  
Soil series: Inanda  
Design: Split plot x 5 replications  
Varieties: Co.331, N:Co.293,  
N:Co.339  
Fertilizer: Not recorded

Soil Analysis: No samples taken

Age: 23 months (11/56 - 10/58)

Water regime: Dryland

Rainfall: 81.46"

Object: To compare herbicides with hand weeding and a combination of the two for 3 varieties.

- Treatments:
1. Herbicides only  
5/11/56 : 16 pts. MCPA/ac., pre emergence  
30/11/56: 20 lb. TCA/ac., pre emergence  
5/2/57 : 10 lb. Dalapon + 5 pts.  
MCPA/ac., pre emergence
  2. No herbicides - plots kept clean by hand weeding.
  3. Herbicides + hand weeding  
30/11/56 : 15 lb. TCA + 5 pts.  
MCPA/ac.  
5/2/57 : 5 lb. Dalapon + 5 pts.  
MCPA/ac.

All plots scarified from 3/57 onwards.

Results:

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Treatment	T.C.A.	Suc. %	T.S.A.
1	69.5	14.0	9.78
2	74.8	13.8	10.33
3	68.0	13.9	9.44
L.S.D. (0.05)	2.50	-	0.47
(0.01)	3.39	-	0.64

SOUTH AFRICAN SUGAR INDUSTRY

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Varieties x Trash management

Catalogue No.: 167                      Soil Analysis: No samples taken  
This crop: 1st Ratoon  
Site: Stoney Hill, Powerscourt        Age: 24 mths. (10/58 - 10/60)  
Altitude: 2,500'  
Soil series: Inanda                      Rainfall: 68.98"  
Design: Split plot, 5 replications  
Varieties: Co.331, N:Co.293, 339  
Fertilizer: Not recorded  
Water regime: Dryland

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Object:

To compare three varieties under three methods of trash management.

Treatments: Co.331  
                  N:Co.293  
                  N:Co.339

Results:

Variety	T.C.A.	Suc. %	T.S.A.
Co.331	34.7	14.3	4.96
N:Co.293	52.4	16.0	8.37
N:Co.339	51.6	14.9	7.68
S.E. single (Whole) plot	5.24		0.787
S.E. Variety Mean	2.34		0.352
L.S.D. (0.05)	7.6		1.15
(0.01)	11.1		1.67
C.V. %	11.3		11.2

9th March, 1966.