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SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Weed exudate trial

Catalogue No.: 103.
This crop: Plant.
Site: Greenhouse, Tongaat.
Altitude: 300'
Soil Series: Shortlands, Clansthal.
Design: 3 treatments, 6 reps.
Variety: N:Co.376.
Fertilizer: Adequate.
Water regime: Irrigated.

Soil Analysis:

No record.

Age: 2 months (Spring, 1964).

Object: To attempt to measure the residual effects, if any, of two common weed species.

Treatments: Control : kept weed free for 6 months.
A : planted to Ubabe grass for 6 months
(*Panicum maximum*).
B : planted to Commelina for 6 months.

Results:

CLANSTHAL

	Germination Shoots/Drum	% of Control	Average Height/ Shoot Inches	% of Control	Aver. Weight/ Drums Grams	% of Control
Ubabe Grass	3.61	90%	8.08	75%	21.95	67%
Commelina	2.16	62%	6.17	57%	18.55	56%
Control	3.50	100%	10.79	100%	32.95	100%

SHORTLANDS.

	Germination Shoots/Drum	% of Control	Average Height/ Inches	% of Control	Aver. Weight/ Drums Grams	% of Control
Barbi Grass	2.00	86%	5.71	82%	15.10	89%
Pig Weed	0.67	29%	0.75	11%	1.21	7%
Control	2.33	100%	6.96	100%	16.97	100%

16th May, 1966.