

25

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

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2 x 2 x 2 NPK FACTORIAL

Catalogue NO.: 56  
This crop: 1st Ratoon  
Site: 149 Sputu Road, Sinembe.  
Altitude: 600'  
Soil series: Cartref (T.M.S.)  
Design: 2 x 2 x 2 NPK 3 reps.  
Variety: N.50/211  
Fertilizer: See below  
Water regime: Dryland

Soil Analysis:

	<u>pH</u>	<u>OM%</u>	<u>Clay%</u>
1R	5.98	1.48	
	<u>p.p.m.</u>		
	<u>P</u>	<u>K</u>	<u>Ca</u>
1R	48	65	1309
			<u>Mg</u>
			33

Age: 1R Dec. 1962 - Jan. 1964 =  
14 mths.

Rainfall: 1R 47.56"

Object: To compare 2 levels of N fertilization in a first ratoon crop.

Fertilizer: Plant & 1R

(Urea)	N <sub>1</sub> : 92	lbs. N/ac.
	N <sub>2</sub> : 184	"
(Super Phos.)	P <sub>1</sub> : 24.9	lbs. P
	P <sub>2</sub> : 49.8	"
(Mur. of Pot)	K <sub>1</sub> : 100	lbs. K
	K <sub>2</sub> : 200	"

Treatment:

1b N/ac.

	<u>Plant</u>	<u>1R</u>
N <sub>1</sub>	92	92
N <sub>2</sub>	184	184

Results:

	Treatment	T.C.A.	Suc. %	T.S.A.
1st Ratoon	N <sub>1</sub>	32.6	12.77	4.16
	N <sub>2</sub>	30.4	13.01	3.96

Note: Plant crop accidentally destroyed by fire.

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Soil Analysis:

pH    OM%    Clay%  
 1R 5.98 1.48

P.p.p.m.  
 P    K    Ca    Mg  
 1R 48    65    1309    33

Age: 1R Dec. 1962 - Jan. 1964 =  
 14 mths.

Rainfall: 1R 47.56"

Object: To compare 2 levels of K fertilization.

Treatments:

Plant & 1R

K<sub>1</sub> : 100 lb K/ac.

K<sub>2</sub> : 200        "

Results:

Treatment	T.C.A.	Suc. %	T.S.A.
1R K <sub>1</sub>	31.1	12.85	3.99
1R K <sub>2</sub>	31.9	12.93	4.13

Note: Plant crop accidentally destroyed by fire.