

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

TIMES OF HARVEST III

Catalogue No.: 82
 This Crop: P, 1R, 2R, 3R.
 Site: Muckleneuk, Umhloti Valley
 Altitude: 400'
 Soil Series: Windermere, Fernwood
 Design: Random Block
 Variety: N.50/211
 Fertilizer: See Treatment.
 Water Regime: Dryland.

Soil Analysis:

	pH	OM%	Clay%
P	-	-	-
1R	5.27	2.15	15.9
2R	5.44	2.32	15.8
3R	5.71	3.70	17.9

p.p.m.

	P	K	Ca	Mg
P	-	-	-	-
1R	60	71	397	112
2R	69	108	378	156
3R	60	103	347	185

Age: 12 months: P - Oct. '62 - Oct. '63
 1R - Oct. '63 - ~~Sept.~~ '64
 2R - ~~Sept.~~ '64 - Oct. '65
 3R - Oct. '65 - Oct. '66
 18 months: P - Oct. '62 - May '64
 1R - May '64 - Oct. '65
 2R - Oct. '65 - May '67
 3R - - -
 24 months: P - Oct. '62 - Sept. '64
 1R - Sept. '64 - May '66
 2R - - -
 3R - - -

Rainfall: 12 months: P - 41.30
 1R - 31.90
 2R - 37.00
 3R - 34.42
 18 months: P - 67.10
 1R - 43.07
 2R - 58.33
 3R - -
 24 months: P - 73.20
 1R - 61.11
 2R - -
 3R - -

Object: To compare 12, 18 and 24 - month harvesting cycles.

Treatments:

AGE	P			1R			2R			3R		
	UREA	SUPERS	POTASH	L.A.N.	SUPERS	POTASH	L.A.N.	SUPERS	POTASH	UREA	D/SUPERS	POTASH
12 months	300	300	200	500	500	180	500	250	100	200	100	100
18 months	300	300	200	750	375	200	Urea 300	D/S 150	200	200	100	200
24 months	300	300	300	1000	500	200	Urea 500	D/S 200	300	-	-	-

Results:

AGE	P			1R			2R			3R		
	T.C.A.	% SUC.	T.S.A.	T.C.A.	% SUC.	T.S.A.	T.C.A.	% SUC.	T.S.A.	T.C.A.	% SUC.	T.S.A.
12 months	52.6	11.85	6.23	58.3	13.17	7.68	46.6	10.90	5.08	36.9	14.97	5.52
18 months	55.4	11.84	6.56	45.3	10.80	4.89	54.9	10.39	5.70	-	-	-
24 months	84.9	13.22	11.22	53.7	13.18	7.08	-	-	-	-	-	-