

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

Irrigation Experiment IV

Catalogue No.: 79
This crop: 1R
Site: Jackson, Umhloti Valley.
Altitude: 130'
Soil: M.E. Shale, Windermere.
Design: Random Block.
Variety: N.50/211
Fertilizer: LAN P K
 1R 1300 500 300

Soil Analysis:
 pH OM % Clay % P K Ca Mg
 1R. 5.28 2.95 23 165 1299 519
Age:
 1R. 11 mths. Aug. 1963 - July 1964.

Object:

Treatment:

F.C. = $\frac{1}{2}$ Inch irrigation when soil moisture deficit = $\frac{1}{2}$ inch.
WP1 = 1.5 " " " " " " " = 1.5 "
WP2 = 3.0 " " " " " " " = 3.0 "
WP3 = 4.5 " " " " " " " = 4.5 "

Results:

Tons Cane per Acre

Crop	F.C.	WP1	WP2	WP3
1R	43.1	43.7	34.3	35.1

Sucrose % Cane

Crop	F.C.	WP1	WP2	WP3
1R	11.6	12.0	11.4	12.2

Tons Sucrose per Acre

Crop	F.C.	WP1	WP2	WP3
1R	5.01	8.25	3.91	4.28

6th May, 1966.