

SOUTH AFRICAN SUGAR INDUSTRY  
AGRONOMISTS' ASSOCIATION.

WEEDING EXPERIMENT.

Catalogue No.: 12  
This Crop: 2R  
Site: Dixon House, Tongaat.  
Altitude: 200'  
Soil Series: Fernwood  
Design: Random Block  
Variety: N:Co.339  
Fertilizer: N      P      K  
Urea            450      -      -  
Water Regime: Irrigated vs.  
                                 Dry Land.

Soil Analysis:

| pH     | OM%  | Clay% |
|--------|------|-------|
| 5.53   | 1.47 | -     |
| p.p.m. |      |       |

| P   | K   | Ca | Mg  |
|-----|-----|----|-----|
| 209 | 154 | -  | 992 |

Age: 26 mths. June 1960 - Aug. 1962

Rainfall: 83.48"

Irrigation: 11.5"

Object: To study the effects of different weeding frequencies on crop yield under irrigated and dryland conditions.

Treatments: W0 = Weekly weeding  
                  W1 = Monthly weeding  
                  W2 = Two Monthly weeding

Results:

| Treatments | T.C.A. |      | Sucrose % |       | T.S.A. |      |
|------------|--------|------|-----------|-------|--------|------|
|            | Irr.   | Dry  | Irr.      | Dry   | Irr.   | Dry  |
| W0         | 40.8   | 38.2 | 14.27     | 14.29 | 5.82   | 5.46 |
| W1         | 41.6   | 41.7 | 14.20     | 14.38 | 5.91   | 6.00 |
| W2         | 37.2   | 42.3 | 14.37     | 14.44 | 5.35   | 6.11 |