

SOUTH AFRICAN SUGAR INDUSTRY

AGRONOMISTS' ASSOCIATION

PRE-RELEASE TRIAL (36/14, 38/22)

Catalogue No.: 130  
This crop: Plant  
Site: Prospect Section Darnall  
House field  
Altitude: 300'  
Soil series: Dwyka Williamson  
Design: Latin Square  
Variety: See treatments  
Fertilizer:  
Supers 8.3% P 800 lb./acre  
15 : 0 : 15 600 lb/acre  
15 : 0 : 15 600 lb./acre  
Water regime: Dryland

Soil Analysis:

pH	p.p.m.			
	P	K	Ca	Mg
4.5	44	120	1460	440

Age: 22 months (11/62 - 7/64)

Rainfall: 86.63"

Object: To test Pre-release varieties

- Treatments:
1. C.B. 36/14
  2. C.B. 38/22
  3. N:Co.376
  4. N50/211

Results:

Variety	T.C.A.	Suc. %	T.S.A.	1	2	Rank	
				T.C.A.M.	lb. S.A.M.	1	2
36/14	50.90	13.83	7.04	2.313	604	1	1
38/22	38.26	15.99	6.12	1.739	556	4	3
376	47.80	13.53	6.47	2.172	588	3	2
50/211	47.89	13.83	6.47	2.176	588	2	2

S.E. =  $\pm$  4.51  
C.V. = 9.8 %

Conclusions: C.B. 36/14 proved to be the best variety with C.B. 38/22 following well behind. Note the relatively low yield of N:Co376 .

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PRE-RELEASE TRIAL (36/14, 38/22)

Catalogue No.: 130  
This crop: 1st Ratoon  
Site: Prospect Section Darnall  
House field  
Altitude: 300'  
Soil series: Dwyka Williamson  
Design: 4 x 4 Latin Square  
Variety: See treatments  
Fertilizer: 800 lb./ac. 15 : 0 : 15  
1st Ratoon  
Water regime: Dryland

Soil Analysis:

pH	p.p.m.			
	P	K	Ca	Mg
4.5	44	120	1460	440

Age: 16 months (7/64 - 12/65)

Rainfall: 52.16"

Object: To test Pre-release varieties

Treatments: 1. N50/211  
2. C.B. 36/14  
3. N:Co.376  
4. C.B. 38/22

Results:

Variety	T.C.A.	Suc. %	T.S.A.	1	2	Rank	
				T.C.A.M.	lb. S.A.M.	1	2
211	16.07	11.74	1.887	1.004	236	3	3
36/14	22.06	10.65	2.349	1.379	294	1	1
376	18.30	12.10	2.214	1.144	276	2	2
38/22	14.81	11.35	1.681	0.926	210	4	4

S.E. = 3.363  
C.V. = 18.88 %

Difference between treatments not statistically significant

Conclusions: Dry conditions during growth cycle depressed yields. Although C.B. 36/14 proved to be the best variety, variations between plots of all varieties were very noticeable.