



# Information Sheet

## 3. VARIETIES

### Variety N70

**Parents:** Unknown

*Selected at Pongola Research Station and tested at the advanced variety stage in two trials in the early season (one trial at Pongola Research Station and one trial at Mpumalanga Research Station), and three trials in the late season (one trial at Pongola Research Station, one trial at Mpumalanga Research Station and one trial on a grower co-operator farm). Results are from plant, first, second and third ratoon crops.*

*Recommended for late season planting and harvesting in irrigated regions on a 12 month cutting cycle.*

#### BEST FEATURES

High RV yields in irrigated late season trials.  
Good pest and disease ratings.  
Good mill processing characteristics.  
Acceptable colour.

#### LIMITING FEATURES

Thin stalks.  
Prone to lodging.  
Not recommended for early season.

#### YIELD AND QUALITY

Tons RV	107% of N25, 111% of N41, 111% of NCo376 in irrigated late season trials
Cane yield	105% of N25, 116% of N41, 105% of NCo376 in irrigated late season trials
RV content	104% of N25, 96% of N41, 107% of NCo376 in irrigated late season trials
Fibre content	111% of N25, 101% of N41, 102% of NCo376
Purity	105% of N25, 98% of N41, 104% of NCo376

Yield and quality data from irrigated late season trials where the variety is recommended for harvest on a 12 month cutting cycle.

#### REACTION TO DISEASES AND PESTS

Smut	Resistant
Mosaic	Resistant
Brown rust	Resistant
Tawny rust	Intermediate
Eldana	Resistant

#### AGRONOMIC CHARACTERISTICS

Germination	Good
Stalk Population	101% of N25
Stalk Height	109% of N25
Stalk diameter	91% of N25
Canopy	Fast
Flowering	High risk
Lodging	High risk
Ratooning	Good

#### MILLING CHARACTERISTICS

Colour	Acceptable colour. Similar to NCo376, lower than N41 and N25
Processability	Good. Percolation rate slightly higher than NCo376 Acceptable density. Slightly higher than NCo376 and N41

## IDENTIFICATION GUIDE

### Habit and General Appearance

Upright growth structure with erect and pointy leaves; poor canopy

### Leaf

**Blade:** Narrow to medium width; fairly erect with some red colouring on the midrib

**Sheath:** Medium adherence to the stalk; wax present with fine hairs but they fall off on older sheaths; older sheaths have some reddening

**Collar:** Not very distinct in colour; wide in size

**Auricle:** Long and underlapping; present on both sides but overlapping is short and broad

### Stalk

#### Internode:

Slight to moderate zigzag but more pronounced on more older or bottom internodes with cylindrical shape; yellow-green colour with purple tinge but dark green colour with purple tinge when exposed to the sun; tend to crack

**Wax Band:** Distinct and broad; heavily waxed except the growth band

**Bud Furrow:** Present

#### Node:

**Growth Ring:** Very distinct; darker in colour than the rest of the stalk; slightly raised and wide in width

**Root Band:** Very narrow and few; flat primordia within the root band

**Sheath scar:** Distinct; rough and raised

**Bud:** Oval shape and older ones are pointier on top; extended over the growth ring; has a red stripe on the middle

**Flange:** Very distinct; reddish in colour



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