



Information Sheet

3. VARIETIES

Variety N71

Parents: 94F2195 x Unknown males

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 the irrigated regions on a 12 month cutting cycle.

BEST FEATURES

High RV yields in late season crops.
Good ratooning.
Resistant to smut and mosaic.
Low colour.
Acceptable milling characteristics.

LIMITING FEATURES

Susceptible to eldana, therefore **MUST NOT** be carried over. Not recommended for early season.

YIELD AND QUALITY

Tons RV	119% of N25, 121% of N41, 113% of N53 in irrigated late season trials
Cane yield	100% of N25, 118% of N41, 114% of N53 in irrigated late season trials
RV content	118% of N25, 102% of N41, 100% of N53 in irrigated late season trials
Fibre content	98% of N25, 94% of N41, 96% of N53
Purity	104% of N25, 97% of N41, 96% of N53
Yield and quality data from irrigated late season trials on a 12 month cutting cycle.	

REACTION TO DISEASES AND PESTS

Smut	Resistant
Mosaic	Resistant
Brown rust	Resistant
Tawny rust	Susceptible
Eldana	Susceptible
Susceptible to eldana. Not recommended for carryover. Not recommended for early season.	

AGRONOMIC CHARACTERISTICS

Germination	Good
Stalk Population	104% of N25
Stalk Height	102% of N25
Stalk diameter	98% of N25
Canopy	Good
Flowering	Low risk
Lodging	Average
Ratooning	Very good

MILLING CHARACTERISTICS

Colour	Good. Low colour. Similar to NCo376
Processability	Percolation rate slightly lower than NCo376, similar to N41 Acceptable density. Similar to NCo376, higher than N41

IDENTIFICATION GUIDE

Habit and General Appearance

Upright growth structure slightly open growth habit; good canopy; broad leaves; vigorous structure; thick stalks

Leaf

Blade: Medium to broad width; erect and pointy with yellow marks on the midrib

Sheath: Weak adherence to the stalk; heavily waxed with a slight purple tinge; short erect and sparse hairs present

Collar: Slightly broad and darker in colour

Auricle: Distinct; broad and flat; breaks off; there is a tuft/beard near the auricle on both sides

Stalk

Internode:

Heavily waxed, conoidal shaped; tends to crack and has some corky markings; light-yellow colour but dark green where exposed to sun

Wax Band: Distinct and heavily waxed than the rest of the stalk; broad/wide

Bud Furrow: Not present

Node:

Growth Ring: Distinct and very narrow root band; protruding

Root Band: Wide with more primordia (mostly 3 rows) and flat primordia

Sheath scar: Distinct; rough and protruding

Bud: Small, round and positioned within the root band

Flange: Distinct and wide



Compiled by Marvellous Zhou (Senior Plant Breeder)

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