



# Information Sheet

## 13. VARIETIES

### 13.28 Variety N43

Previously 95F3078. Parents 87F2721 x 87F2019. Selected in the Irrigated region from trials at Pongola, Komatipoort and Malelane. It is recommended that this variety be planted under high potential irrigated conditions and harvested late in the season on a 12-month cycle.

#### BEST FEATURES

N43 produces high RV yields from a moderate population of thick stalks, which tend to resist lodging more than other commercial varieties. Good payloads are achieved with this variety, especially when cut late in the season. A good competitor with N25, especially under high potential conditions.

#### LIMITING FEATURES

Smut may become a problem with this variety and should be monitored closely. N43 may suffer from eldana damage if carried over on the coast under stressed conditions.

#### YIELD AND QUALITY

Tons RV	Moderate to high. 107% of N19, 96% of N25
Cane yield	Moderate to high. 112% of N19, 96% of N25
RV content	Moderate. 96% of N19, 101% of N25
Fibre content	Moderate. 100% of N19, 113% of N25
Purity	Moderate. Similar to N19 and N25

RV yields of this variety have been very good on deep well-drained soils under high potential conditions. Lower RV yields are obtained on poorer, shallow soils. N43 is more suited to a late season harvest and will be a good complement to N19 when harvested at this time.

#### REACTION TO DISEASES AND PESTS

Smut	Susceptible
Mosaic	Intermediate resistant
Rust	Intermediate resistant
Leaf scald	Intermediate
Eldana	Intermediate susceptible

N43 is susceptible to smut, but has good mosaic and rust resistance. Thrips damage has been observed when planting between Oct-Dec. The ratoon crop is more tolerant to thrips.

#### AGRONOMIC CHARACTERISTICS

Germination	Rapid
Stalk Population	Intermediate
Stalk Height	Intermediate
Canopy	Good
Flowering	Sparse
Lodging	Intermediate
Ratooning	Good

N43 has a moderate population of thick, heavy stalks, which produces high cane yields. The variety will not lodge readily due to the moderate stalk height and straight stalks that will also give good payloads. Open growth habit at first, but becomes upright and canopies well.

#### MILLING CHARACTERISTICS

Colour	No data available
Pith: Fibre ratio (Low ratio is desirable)	No data available

## N43

Parentage: 87F2721 X 87F2019

### HABIT AND GENERAL APPEARANCE

The growth habit is slightly open with a medium population of stalks. The leaves are fairly erect of medium width. The older leaf sheaths or trash only partially cover the stalk.

### LEAF

**Blade:** fairly erect, medium in width, slightly arched in the top half of the leaf.

**Sheath:** lightish green, fairly waxy with purple blotches sometimes. Hairs rarely present. The trash can be peeled off easily.

**Collar:** medium to narrow, green yellow.

**Auricle:** long sometimes with a small one present on the other side.

### STALK

#### *Internode*

The internodes are medium length and thickness. They are yellow-green in colour but where exposed purplish. They also have a fair amount of wax on them. The stalk can have a slight zigzag alignment between the internodes. The internodes are concave - convex in shape.

**Wax band:** narrow to medium fairly distinct.

**Bud furrow:** none.

#### *Node*

**Growth ring:** bulges slightly.

**Root band:** medium to narrow in width, green-yellow in colour.

**Sheath scar:** neat.

**Bud:** fairly small and round, arises usually just above the sheath scar.

**Flange:** narrow to medium arises at the top half of the bud, usually does not reach the growth ring.



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