



# Information Sheet

2006

## 3. VARIETIES

### Variety N30

#### INTRODUCTION

**N**30 is suited to high potential soils and requires good irrigation management. Relative to other varieties N30 is best harvested in the early season. N30 has high purity and a high sucrose content, with a low fibre content and low cane yield. With these good traits N30 can be planted at some distance from the mill.

**Origin:** SASRI, South Africa

**Year of release:** 1997

**Variety Code:** 87F2383

**Parentage:** 77F0637 x 78F1025

#### CANE QUALITY & YIELD

**Tons RV:** Best yields obtained in the early season (111%N14, 111%N19) on good, well drained soils. Poor yields obtained on very sandy soils (68%N14, 79%N19).

**Cane yield:** Low (lower than N14, N19 & NCo376)

**RV content:** Very high (120%N14, 111%N19, 121%NCo376)

**Fibre content:** Low (95%N14, 94%N19, 91%NCo376)

**Purity:** High

**Fibre:sucrose ratio:** Low

**Non-sucrose:sucrose ratio:** Low

#### AGRONOMIC CHARACTERISTICS

**Germination (speed and reliability):** Moderate speed but reliable

**Stalk population (at harvest):** Medium: 107 000/ha

**Stalk mass (at harvest):** High

**Stalk height (at harvest):** Average

**Stalk elongation:** Moderate

**Canopy formation:** As rapid as N14

**Flowering:** Moderate

**Lodging:** Moderate/severe

**Ratooning ability (speed and reliability):** Moderate speed and reliable

#### REACTION TO DISEASES & PESTS

**Smut:** Resistant

**Mosaic:** Resistant

**RSD:** Susceptible

**Brown Rust:** Resistant

**Tawny Rust:** Unknown

**Leaf scald:** Resistant

**Red rot:** Susceptible

**Nematodes:** Highly susceptible

**Eldana:** Susceptible

#### REACTION TO WATER STRESS

**Growth during severe water stress:** Poor

**Recovery after water stress:** Poor

**Ratooning after drought:** Moderate

**Poorly drained soils:** Intolerant

**Salinity tolerance:** Unknown



Irrigated

**NUTRITION**

**Nitrogen use efficiency:** Moderate to low

**RIPENER RECOMMENDATIONS**

**Fusilade Forte:** Ground rigs (250 ml/ha), Aerial (275 ml/ha): Poor

**Ethephon (1.5 l/ha):** Yes

**Gallant Super:** No data

**Tandem (Ethephon + Fusilade Forte):** No data

**HARVESTING**

**Best months:** Apr-Jun

**BEST FEATURES**

*While N30 has a high sucrose content both early and late in the season it is best harvested early in the season. N30 yields extremely well on deep, well drained soils with good irrigation management. Good payloads are achieved with this variety.*

**LIMITING FEATURES**

*N30 has an open growth habit. It is susceptible to eldana and has been recorded with very high levels of eldana in the Northern Irrigated region. Do not age or carry over. It does not yield well on low potential soils and is not suitable for very sandy soils. This variety has light green to yellow leaves (genetic trait) and this must not be confused with a nitrogen deficiency. Susceptible to sugarcane yellow leaf virus, but yield loss limited if planted early season. Additional application of nitrogen will lead to severe eldana infestation.*



## Identification Guide

**HABIT AND GENERAL APPEARANCE**

Tall, with an open growth habit. Has a canopy of long leaves, giving a slightly droopy appearance. Leaves are yellowish-green in colour. Stalk population is fairly low.

**LEAF**

**Blade:** yellowish-green, long, width narrow to medium. Sometimes slight chlorotic blotching present.

**Sheath:** greenish, with reddish-orange blotches turning to dark brown in older sheaths. Long, fairly soft hairs present. Trash covers almost entire stalk, but comes away fairly easily when peeled.

**Collar:** medium to narrow, usually purple.

**Auricle:** none.

**STALK****Internode**

Yellowish to pale green, turning to dark purplish-green on exposure. Corky markings usually present. Long, medium diameter internodes, sometimes slightly staggered. Thin splits or cracks may occur.

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

**Bud furrow:** a slight furrow can usually be seen.

**Node**

**Growth ring:** light green to yellow, often flush with the internode.

**Root band:** medium width, slightly raised, yellow in colour.

**Sheath scar:** in young cane often has jagged edges, otherwise neat.

**Bud:** small, round, insignificant in appearance.

**Flange:** narrow, sometimes brownish on the top edge.