



# Information Sheet

## Variety N50

### Introduction

Recommended for wide range of soils in hinterland and midlands regions for harvesting older than 18 months.

### Best features

Very high cane yields. Hardy variety that has performed well under range of yield potential conditions. Good RV yields achieved on sandy soils. Early and late season variety. Very high stalk population. Good ratooning ability. Good resistance to mosaic.

### Limiting features

Not recommended for the annual harvesting on the coast due to very low RV content. Sensitive to hot water treatment. Severe sour rot has been observed in the midlands during dry periods. Not suitable for frost pockets in midlands. Susceptible to smut. Not suited to cooler, south or east facing slopes in Midlands. Avoid harvesting just before winter as stool mortality has been observed and ratooning can be negatively impacted.

### Yield & quality



The performance of a variety will vary under different conditions and levels of management. For refined yield and quality information, please consult the SASRI Variety Guide at [www.sasri.org.za/varietyguide](http://www.sasri.org.za/varietyguide), where you will be able to rank this variety against others of your choice based on your specific area, irrigation regime, cutting cycle, soil potential and time of harvest.

## Management Factors

EARLY SEASON HARVEST	YES	NO	
MID-SEASON HARVEST	YES	NO	
LATE SEASON HARVEST	YES	NO	
SUITABILITY FOR CARRYOVER	YES	NO	
SUITABILITY FOR FROST POCKETS	YES	NO	UNKNOWN

## Soil Potential

LOW POTENTIAL	YES	NO
AVERAGE POTENTIAL	YES	NO
HIGH POTENTIAL	YES	NO

## Agronomic Characteristics

GERMINATION ABILITY	FAST	MODERATE	SLOW	
CANOPY DEVELOPMENT	FAST	MODERATE	SLOW	
STALK POPULATION	HIGH	MODERATE	LOW	
STALK HEIGHT	TALL	MODERATE	SHORT	
FLOWERING	SPARSE	MODERATE	PROFUSE	
LODGING	ERECT	AVERAGE	SEVERE	
TOLERANCE TO WATER STRESS	GOOD	MODERATE	POOR	UNKNOWN
TOLERANCE TO WATER LOGGING	GOOD	MODERATE	POOR	UNKNOWN

## Response to Ripeners

ETHEPHON (and generics)	HIGHLY RECOMMENDED	RECOMMENDED	NOT RECOMMENDED	UNKNOWN
FUSILADE (and generics)	HIGHLY RECOMMENDED	RECOMMENDED	NOT RECOMMENDED	UNKNOWN
COMBO ETHEPHON + FUSILADE (and generics)	HIGHLY RECOMMENDED	RECOMMENDED	NOT RECOMMENDED	UNKNOWN
MODDUS	HIGHLY RECOMMENDED	RECOMMENDED	NOT RECOMMENDED	UNKNOWN
COMBO MODDUS + FUSILADE (and generics)	HIGHLY RECOMMENDED	RECOMMENDED	NOT RECOMMENDED	UNKNOWN

## Reaction to Pests & Diseases

SMUT	HIGHLY RESISTANT	RESISTANT	INTERMEDIATE RESISTANT	INTERMEDIATE	INTERMEDIATE SUSCEPTIBLE	SUSCEPTIBLE	HIGHLY SUSCEPTIBLE	
MOSAIC	HIGHLY RESISTANT	RESISTANT	INTERMEDIATE RESISTANT	INTERMEDIATE	INTERMEDIATE SUSCEPTIBLE	SUSCEPTIBLE	HIGHLY SUSCEPTIBLE	
BROWN RUST	HIGHLY RESISTANT	RESISTANT	INTERMEDIATE RESISTANT	INTERMEDIATE	INTERMEDIATE SUSCEPTIBLE	SUSCEPTIBLE	HIGHLY SUSCEPTIBLE	UNKNOWN
TAWNY RUST	HIGHLY RESISTANT	RESISTANT	INTERMEDIATE RESISTANT	INTERMEDIATE	INTERMEDIATE SUSCEPTIBLE	SUSCEPTIBLE	HIGHLY SUSCEPTIBLE	UNKNOWN
ELDANA	HIGHLY RESISTANT	RESISTANT	INTERMEDIATE RESISTANT	INTERMEDIATE	INTERMEDIATE SUSCEPTIBLE	SUSCEPTIBLE	HIGHLY SUSCEPTIBLE	
THRIPS LEAF DAMAGE	LESS	MODERATE	MORE	UNKNOWN				
YSA LEAF DAMAGE	LESS	MODERATE	MORE	UNKNOWN				

## Milling Characteristics

FIBRE CONTENT	VERY LOW	LOW	LOW TO MOD	MODERATE	MOD TO HIGH	HIGH	VERY HIGH
COLOUR	VERY LOW	LOW	ACCEPTABLE	HIGH	VERY HIGH		
PROCESSABILITY	VERY GOOD	GOOD	ACCEPTABLE	POOR	VERY POOR	UNKNOWN	

# N50 Identification Guide

## Habit and General Appearance

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Intermediate to high stalk population; good canopy; average thickness of stalks.

## Leaf

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**Blade:** Narrow to medium width at longitudinal midpoint; arched; small chlorotic blotches present on mid-rib; hairs present.

**Sheath:** Weak adherence to the stalk; green sheath, becoming darker on exposure; occasional pink flushes; sometimes red sheath with red blotches present; overlaying wax-coating of sheath; occasionally fine hairs present.

**Collar:** Medium to wide; purplish-green.

**Auricle:** Large, lanceolate auricle (fairly long and thin) on underlapping leaf; outer auricle is small and indistinct.

## Stalk

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### Internode

**Appearance:** Tumescient (barrel-shaped); absent to very weak zig-zag stalk alignment; creamy green internodes; cracks sometimes present; extremely waxy (wax overlay) on stalk.

**Wax band:** Fairly indistinct, not clearly defined.

**Bud furrow:** Present

### Node

**Growth ring:** Protrudes slightly but is indistinct in older internodes.

**Root band:** Indistinct; more than 2 rows of root primordia.

**Sheath scar:** Present

**Bud:** Small ovate buds (slightly pointed at tip of bud); younger buds are pinkish-red (looks similar to N12).

**Flange:** Hairs present on flange; medium; wraps almost all round the bud.



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