



Information Sheet

Variety N21

Introduction

Recommended for rainfed regions on poorer soils where stress and eldana is a problem.

Best features

Very good eldana resistance. Good yields on poorer soils where stress and eldana is a problem. Better performance when clay content is above 12%. Suitable for shallow soils and hilltops. High N use efficiency indicating lower rate of N can be applied

Limiting features

Severe lodging is a problem with this variety. Very hard stalks due to high fibre content which make harvesting difficult. Poor payloads achieved due to lodging. Must not plant on light textured and Dwyka tillite soils from May to July. Ratooning can be variable. Highly susceptible to nematodes. Initial observations are that this variety is susceptible to thrips damage.

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, 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	

N21 Identification Guide

Habit and General Appearance

A tall, low population variety with an erect, dark green canopy that has a spiky appearance.

Leaf

Blade: Narrow, erect and dark green with small chlorotic blotches sometimes on the midrib. At the base of the leaf, where it joins the sheath, there is usually a chlorotic yellowish area, mainly on the midrib and particularly in older leaves.

Sheath: Green, with purplish-red blotches sometimes on the younger sheaths; long soft hairs present. Trash clings tightly.

Collar: Narrow, yellowish.

Auricle: Fairly short, broad and rounded at tip.

Stalk

Internode

Appearance: Light yellowish-green with a lot of white wax overlay. Medium in thickness, slightly staggered. The stalk is hard.

Wax band: Indistinct in young internodes, but can be fairly distinct in older internodes.

Bud furrow: Slight.

Node

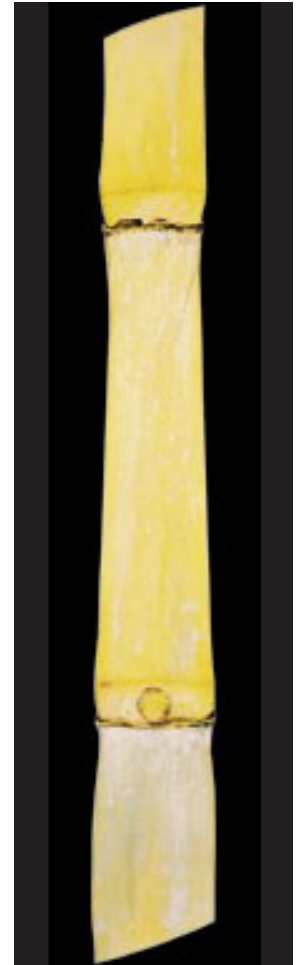
Growth ring: Yellowish-green, protruding slightly.

Root band: Medium in width, yellowish, similar to the internode. Root primordia similar in colour to growth ring.

Sheath scar: Fairly neat.

Bud: Small to medium, more or less circular.

Flange: Very narrow.



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