



Information Sheet

Variety N53

Introduction

Recommended for irrigated regions on a wide range of yield potential conditions and can be harvested throughout the season.

Best features

Short statured variety that produces moderate to high stalk population. Good yields have been achieved on heavy clay and high potential soils. Some tolerance to waterlogging. Can be harvested all year round but best yields achieved when harvested mid to late season. RV yields shown to improve with ratoons relative to other varieties. Good disease and pest resistance. Responds well to Fusilade ripener.

Limiting features

Can become water stressed during drought conditions when there are water restrictions. Lodging can be severe. Has a pale yellow colour that is not related to N-deficiency. Do not plant on gravel, rocky or shale soils. Under marginal growing conditions cane yield may be excessively reduced when applying Moddus as a chemical ripener despite good RV%. Do not apply "piggy back" ripener treatment. Flowering may be profuse in this variety.

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	

N53 Identification Guide

Habit and General Appearance

N53 is a high population variety with medium stalks, with an erect growing habit. The canopy is uniform and good, with curved leaves of medium to average width.

Leaf

Blade: Medium to average width. Overlapping leaf absent.

Sheath: Green sheath with purple blotches sometimes present. Hairs present.

Collar: Medium to wide, yellow-green collar.

Auricle: Under-lapping: very distinct, very long, lanceolate; broken off on older leaves.

Stalk

Internode

Appearance: The internodes are long and cylindrical. They are yellow-green in colour but darker-green on exposure. The internodes have abundant wax bloom on them. The stalk can have a slight zigzag alignment. Cracks are sometimes present.

Wax band: Medium width, not well defined.

Bud furrow: None

Node

Growth ring: Well defined, green.

Root band: Same colour as stalk, 2 rows of root primordia.

Sheath scar: Straight

Bud: Round and small to medium size. Generally within the root band.

Flange: Broad, all around the buds.



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