



Information Sheet

13. VARIETIES

13.49 Variety N64

Parents: 75E0247 x MPU

Selected at Gingindlovu research station and tested at the advanced variety stage in two trials in coastal short cycle average potential soils (one trial at the Gingindlovu research station and one off-station farm), and three trials in the coastal short cycle high potential soils (two trials at the Empangeni research station and one trial at the off-station farm). Results are from the plant, first and second ratoon crops.

Recommended for coastal short cycle average and high potential regions only on a 12-14 month cutting cycle.

BEST FEATURES
Good eldana resistance. High RV yields in coastal short cycle high potential environments on a 12-14 months cutting cycle.

LIMITING FEATURES
Intermediate to smut and mosaic. Significantly higher colour values compared to N27 and N41.

YIELD AND QUALITY	
Tons RV	106% of N41, 128% of N27 in coastal short cycle high potential 100% of N41, 102% of N27 in coastal short cycle average potential
Cane yield	106% of N41, 117% of N27 in coastal short cycle high potential 98% of N41, 94% of N27 in coastal short cycle average potential
RV content	99% of N41, 107% of N27 in coastal short cycle high potential 102% of N41, 108% of N27 in coastal short cycle average potential
Fibre content	108% of N41 and N27
Purity	Similar to N41
Yield and quality data from coastal short cycle average and high potential where the variety is recommended for harvest on a 12 to 14 month cutting cycle.	

REACTION TO DISEASES AND PESTS	
Smut	Intermediate
Mosaic	Intermediate
Brown rust	Intermediate
Tawny rust	Intermediate
Leaf scald	Not observed
Eldana	Intermediate Resistant
Recommend roguing for smut	

AGRONOMIC CHARACTERISTICS	
Germination	Good
Stalk Population	99% of N41
Stalk Height	93% of N41
Stalk diameter	95% of N41
Canopy	Fast
Flowering	Low
Lodging	Prone to lodging
Ratooning	Good

MILLING CHARACTERISTICS	
Colour	Higher colour than NCo376 (+47%), N27 (+157%), N39 (+80%) and N41 (+73%)
Processability	Good processability values: Higher percolation than N27 (+17%) and N41 (+7%). Similar density to NCo376 (-1%). Lower density than N27 (-19%), N39 (-14%) and N41 (-11%).

IDENTIFICATION GUIDE

Habit and General Appearance

Upright growth structure; good canopy; average stalk diameter

Leaf

Blade: Narrow in width; erect and spiky; yellow markings on the midrib

Sheath: Loose adherence to the stalk; slight presence of wax; purple-brownish in colour; very short fine hairs present but not profuse

Collar: Distinct and purple in colour; different colour from the rest of the stalk; medium size

Auricle: No auricle

Stalk

Internode:

Medium to long internodes with cylindrical shape; moderate internodes are moderately staggered (moderate zig-zag alignment); purple colour; occasional presence of cracks

Wax band: Very narrow but distinct; not heavily waxy

Bud furrow: Very slight bud furrow present

Node:

Growth ring: Narrow root band; protruding; lighter in colour than the rest of the stalk

Root band: Primodia are slightly raised; lighter in colour with dark purple centre

Sheath scar: Distinct; relatively tidy

Bud: Oval shape; very small

Flange: Small and not very distinct



Compiled by Marvellous Zhou (Senior Plant Breeder)
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