



Information Sheet

13. VARIETIES

13.52 Variety N67

Parents: 88E0520 x MP (Unknown male parents)

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

Recommended for planting on average and high potential soils on a shorter cutting cycle of 12 to 14 months in the coastal rainfed regions.

BEST FEATURES

Very high RV yields in coastal short cycle average and high potential environments on a 12 to 14 month cutting cycle. Good combination of high cane yield and high sucrose content. Good and stable ratooning ability.

LIMITING FEATURES

Intermediate eldana resistance. Not recommended for carry over. Integrated Pest Management practices recommended for effective eldana control. High density and low percolation rate for milling. Tawny rust has been observed on this variety.

YIELD AND QUALITY

Tons RV	130% of N27, 126% of N41, 106% of N58 on coastal short cycle high potential soils 119% of N41, 117% of N45, 111% of N58 on coastal short cycle average potential soils
Cane yield	115% of N27, 117% of N41, 99% of N58 on coastal short cycle high potential soils 115% of N41, 108% of N45, 107% of N58 on coastal short cycle average potential soils
RV content	106% of N27, 107% of N41, 108% of N58 on coastal short cycle high potential soils 103% of N41, 107% of N45, 104% of N58 on coastal short cycle average potential soils
Fibre content	101% of N41; 104% of N27
Purity	101% of N41; 102% of N27
Yield and quality data from coastal short cycle average and high potential soils where the variety is recommended for harvest on a 12 to 14 month cutting cycle.	

REACTION TO DISEASES AND PESTS

Smut	Intermediate resistant
Mosaic	Intermediate resistant
Brown rust	Intermediate resistant
Tawny rust	Intermediate
Eldana	Intermediate

AGRONOMIC CHARACTERISTICS

Germination	Good
Stalk Population	98% of N41
Stalk Height	96% of N41
Stalk diameter	113% of N41
Canopy	Fast
Flowering	Low
Lodging	low
Ratooning	Good

MILLING CHARACTERISTICS

Colour	Low colour value (< 10 000 ICUMSA), less than NCo376
Processability	Low percolation rate (= 0.9 m/min) and high density (> 300 kg/m ³).

IDENTIFICATION GUIDE

Habit and General Appearance

Upright growth structure; good canopy; broad leaves; vigorous structure; thick stalks

Leaf

Blade: Broad width leaves; bent leaves; no markings

Sheath: Medium adherence to the stalk, waxy; spiny short hairs present; green with dark purplish- tinge

Collar: Medium width size, brownish colour

Auricle: Present only on one side (underlapping side); small, flat and triangular

Stalk

Internode:

Conoidal shape (narrow at top of the internode, broad at the bottom of internode); light yellow in colour but dark yellow green when exposed to the sun; internodes are moderately staggered (moderate zig-zag alignment)

Wax Band: Narrow but distinct; medium waxed

Bud Furrow: Slight indentation not always present

Node:

Growth Ring: Protruding and distinct; darker colour in younger nodes but same colour as the rest of the stalk in older nodes

Root Band: Very narrow and flat; sparse primordia that are flat and indistinct

Sheath scar: Distinct; untidy (jagged); protruding

Bud: Round shape; medium size always within the root band

Flange: Medium and indistinct.



Compiled by Marvellous Zhou (Senior Plant Breeder)
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