



Information Sheet

3. VARIETIES

Variety N58

Parents: Q135 x 80M1212. Year of release 2015.

Selected at Gingindlovu research station from three trials at Gingindlovu area (coastal long cycle) and two trials at Kearsney area (coastal hinterland). Results are from the plant, first and second ratoon crops. Recommended for coastal long cycle on 18 month harvest cycle where the variety produced high cane and RV yields.

BEST FEATURES

Good general disease and eldana resistance. High cane and RV yields.

LIMITING FEATURES

Lodging, high fibre.

YIELD AND QUALITY

Tons RV	167% of N12, 150% of N39 in Coastal long cycle, 125% of N27, 99% of N39, 120% of N41 in Coastal Hinterland
Cane yield	142% of N12, 135% of N39 in Coastal long cycle 114% of N27, 100% of N39, 120% of N41 in Coastal Hinterland
RV content	120% of N12, 111% of N39 in coastal long cycle 108% of N27, 99% of N39, 99% of N41 in Coastal Hinterland
Fibre content	114% of NCo376, 113% of N39
Purity	Similar to N12 & N16, 101% N31
Yield and quality data from coastal and hinterland trials harvested on 14 – 18 month cycle.	

REACTION TO DISEASES AND PESTS

Smut	Intermediate resistant
Mosaic	Resistant
Brown Rust	Resistant
Tawny	Intermediate
Leaf scald	Resistant
Eldana	Resistant

AGRONOMIC CHARACTERISTICS

Germination	Good
Stalk Population	High (107% of N12)
Stalk Height	Tall (107% of N12)
Stalk Diameter	Average
Canopy	Good
Flowering	Average
Lodging	Average
Ratooning	Very good

MILLING CHARACTERISTICS

Colour	Similar to N39 and better than N12 and NCo376.
Processability	11% higher percolation, 11% lower density and 17 percent higher DRI than NCo376 indicating better milling and processing qualities than NCo376.

IDENTIFICATION GUIDE

Habit and General Appearance

N58 is a high population variety with medium to thick stalks, with an erect growing habit. It has a good canopy with fairly erect leaves (some bend near tip) of medium width. The crop residue is abundant and adhering very strongly.

Leaf

Blade: Medium width, dark green; chlorotic blotches are sometimes present, mainly on the midrib.

Sheath: Green sheath with distinctive purple patches and edges. No hairs.

Collar: Medium, dark green.

Auricle: Underlapping - short, lanceolate. Overlapping - small, deltoid.

Stalk

Internode

The internodes are long and cylindrical. They are yellow-green in colour and purple on exposure. The stalk can have a slight zigzag alignment.

Wax band: Narrow, not well defined.

Bud furrow: Slight; more pronounced with older internodes.

Node

Growth ring: Yellow green, raised.

Root band: Medium to wide; lighter colour than stalk; 3 rows of root primordia.

Sheath scar: Untidy.

Bud: Small, round with a tuft of hair at the apex; touch the growth ring.

Flange: Present, large - top half of bud.

