



Information Sheet

13. VARIETIES

13.45 Variety N60

Parents: 99F2204 x N25.

Selected at Pongola Research Station and tested in the advanced variety selection stage in two early season trials at Pongola and Mpumalanga Research Stations and three late season trials at Pongola Research Station, Pongola off-station trial and Mhlati off-station trial in Mpumalanga from 2010 to 2014. Results are from the plant, first, second and third ratoon crops.

Recommended for mid to late season harvesting on a 12 month harvesting cycle. Recommended for the southern irrigated regions (Umfolози, Felixton, Amatikulu, North and South Coast and Sezela) because of the Intermediate rating for smut.

BEST FEATURES

Good general disease resistance. High cane and RV yields in late season.

LIMITING FEATURES

Low fibre. Intermediate rating for smut and intermediate susceptible rating for eldana.

YIELD AND QUALITY

Tons RV	108% of N25 in early season; 110% of N25 in late season
Cane yield	97% of N25 in early season; 103% of N25 in late season
RV content	111% of N25 in early season, 106% of N25 in late season
Fibre content	96% of N25; 88% of NCo376
Purity	102% of N25, 96% of N41

Yield and quality data from irrigated early and late season trials on 12 month cycle.

REACTION TO DISEASES AND PESTS

Smut	Intermediate
Mosaic	Intermediate resistant
Rust	Resistant
Leaf scald	Resistant
Eldana	Intermediate susceptible

AGRONOMIC CHARACTERISTICS

Germination	Good
Stalk Population	High (similar to N25)
Stalk Height	Tall (101% of N25)
Stalk diameter	Average (103% of N25)
Canopy	Very good
Flowering	Average
Lodging	Low to average
Ratooning	Good

MILLING CHARACTERISTICS

Colour	115% of NCo376; 83% of N25
Processability	4% higher percolation than NCo376; 27% higher percolation than N25. 7% higher density than NCo376; 21% lower density than N25.

N60 has similar processability to NCo376 and much better than N25.

IDENTIFICATION GUIDE

HABITAT AND GENERAL APPEARANCE

A high yielding variety with high RV yields in the late season. It has high stalk population with average stalk diameter. It is a variety that germinates and canopies well with narrow width and upright leaves erect and bending near the tip.

LEAF

Blade: Narrow width and upright leaves erect leaves bending near the tip

Sheath: Yellow Green in colour and is profusely hairy. Brown edges with purple blotches

Collar: Narrow and has a brownish colour

Auricle: Long lanceolate, overlapping leaf and it present only on one side with a beard

STALK

Internodes

Tumescent shape and have green orange colour but green when exposed to sun with a weak zig-zag alignment.

Wax Band: Very distinct

Bud Furrow: Absent

Node

Growth Ring: Slightly darker colour than the rest of the stalk in young stalks but same colour as the stalk in older stalks.

Root Band: Same colour as the rest of the stalk with almost well aligned rows of root primordia. The root primordia protrude and are bumpy in older nodes but flat in new nodes

Sheath scar: Protruding and untidy

Bud: Relatively small buds round shaped that are within the growth ring

Flange: Not very big



Compiled by Marvellous Zhou (*Senior Plant Breeder*)
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