



# Information Sheet

## 3. VARIETIES

### Variety N74

**Parents:** 96L1636 x unknown

*Selected at Bruyns Hill Research Station and tested at the advanced variety stage in three humic soils trials (one trial on Bruyns Hill Research Station and two trials on a grower co-operator farm), and three sandy soils trials (one trial on Glenside Research Station and two trials on grower co-operator farms) from 2013 to 2019. Results are from the plant, first and second ratoon crops.*

*Recommended for planting and harvesting in humic soils on a longer cutting cycle of 18 to 24 months.*

#### BEST FEATURES

High cane yield, high RV% and high tons RV.  
Good ratooning.  
Good disease resistance.  
Good eldana resistance.

#### LIMITING FEATURES

None

#### YIELD AND QUALITY

Tons RV	124% of N31, 118% of N12 in humic soils. 107% of N31, 113% of N12 in sandy soils.
Cane yield	106% of N31, 118% of N12 in humic soils. 97% of N31, 114% of N12 in sandy soils.
RV content	115% of N31, 100% of N12 in humic soils. 111% of N31, 99% of N12 in sandy soils.
Fibre content	104% of N31, 117% of N12.
Purity	104% of N31, 101% of N12.
High tons RV and cane yield in humic soils.	

#### REACTION TO DISEASES AND PESTS

Smut	Resistant
Mosaic	Resistant
Brown rust	Unknown
Tawny rust	Resistant
Eldana	Resistant

#### AGRONOMIC CHARACTERISTICS

Germination	Good
Stalk Population	80% of N12 and N31
Stalk Height	89% of N31, 133% of N12
Stalk diameter	125% of N31, 109% of N12
Canopy	Good
Flowering	Sparse
Lodging	Average
Ratooning	Good

#### MILLING CHARACTERISTICS

Colour	Once-off testing of a single sample suggests that the colour of this variety is higher than NCo376, N48, N52 and N62 but still below 10 000 IU.
Processability	Once-off testing of a single sample suggests that this variety has a slightly higher density than NCo376, similar to N52 and N62, and slightly lower than N48. Percolation rate was not significantly different from NCo376, N48, N52 and N62.

## IDENTIFICATION GUIDE

### Habit and General Appearance

Upright and densely populated thick stalks

### Leaf

**Blade:** Medium width, upright with droopy tips

**Sheath:** Strong adherence to the stalk, Reddish purple colour tint, heavily covered with wax, has profuse soft fine hairs

**Collar:** Indistinct, similar to the sheath in colour, medium in size

**Auricle:** Present and very distinct but only one side, long in size

### Stalk

Slight zigzag at the bottom, internodes are thick at the base and thinner in the middle. The stalk is heavily covered with wax.

#### *Internode:*

**Wax Band:** Thick wax layer but indistinct because it blends with the heavily waxed stalk

**Bud Furrow:** Present and long but not very deep

#### *Node:*

**Growth Ring:** Flat, similar colour to stalk colour, medium in size

**Root Band:** Few primordia, very flat in younger nodes and raised in older nodes

**Sheath scar:** Slightly raised with a clean detachment of the sheath

**Bud:** Oval in shape and is within the root band, older buds have a reddish purple colour stripe on the centre whereas younger buds have a slight indentation in the centre.

**Flange:** Distinct and thick



Compiled by Marvellous Zhou (Senior Plant Breeder)

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