



# Information Sheet

## 13. VARIETIES

### 13.29 Variety N44

Previously 91H0265. Parents N6 x 77F0790. Selected in the Midlands regions from trials at Bruyns Hill and Glenside. It is recommended that N44 be planted at high elevations (>600m) on a long harvest cycle (>20 months).

#### BEST FEATURES

N44 produces high RV yields on both high and average potential soils in the Midlands. The variety is a good competitor with N31 at high elevations on a long cutting cycle. It also has very good resistance to mosaic and rust, coupled with intermediate to good agronomic characteristics.

#### LIMITING FEATURES

N44 does not yield consistently on the coast on a 15-18 month cycle. It is rated susceptible to smut and intermediate susceptible to eldana, and is therefore recommended for higher altitudes. Has been observed to perform poorly on shallow soils.

#### YIELD AND QUALITY

Tons RV	High. 123% of N12, 116% of N16, 99% of N31
Cane yield	High. 128% of N12, 116% of N16, 97% of N31
RV content	Moderate. 96% of N12, 99% of N16, 102% of N31
Fibre content	Moderate. 102% of N12, 107% of N16, 93% of N31
Purity	Moderate. 100% of N12, 100% of N16, 101% of N31

The high cane yield and moderate RV content of N44 has resulted in very good RV yields attained at high elevations on a long harvest cycle (>20 months). Preliminary results indicate that higher RV yields are obtained relative to controls when harvested mid to late season.

#### REACTION TO DISEASES AND PESTS

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

N44 has better mosaic and rust resistance than most other midlands varieties. N44 has picked up maize streak virus and this will be monitored closely.

#### AGRONOMIC CHARACTERISTICS

Germination	Intermediate
Stalk Population	Intermediate low
Stalk Height	Intermediate
Canopy	Good
Flowering	Sparse
Lodging	Intermediate severe
Ratooning	Good

N44 has a reasonably low population of thick stalks with a fairly open growth habit. Lodging can be an issue at high tonnages.

#### MILLING CHARACTERISTICS

Colour	High
Pith:Fibre ratio (Low ratio is desirable)	Intermediate

N44 has a lower colour than N31, but higher pith:fibre ratio than N12 and N31.

October 2007

Copyright subsists in this work. No part of this work may be reproduced in any form or by any means without the publisher's written permission. Whilst every effort has been made to ensure that the information published in this work is accurate, SASRI takes no responsibility for any loss or damage suffered by any person as a result of the reliance upon the information contained herein.