

Description

Agronomic adaptability

Noi Mutin is well adapted for cultivation in Timor-Leste. The crops are planted either in rows or randomly spaced 75cm to 1 m apart with 1-3 seeds per hill. This maize variety produce high yields without using fertiliser, however yields will be higher if fertiliser is applied.



Storage

Evaluations during 2009-2011 illustrated that Noi Mutin is more resistant to weevil damage, similar to the average of local varieties when stored using traditional methods.

Disease, insect and pest reaction

Noi Mutin is resistant to downy mildew, weevil damage, maize rust and heavy wind. Noi Mutin is an open pollinated variety which farmers can continue to grow.

Yield and grain quality

Noi Mutin is an open pollinated variety with white grain which farmer can continue to plant it and considered to be soft by consumers in Timor-Leste.

Name	Noi Mutin	Local
Mean yield (t/ha) from 2007-2012	2.1	1.7
Yield advantage over local varieties in on farm demonstration trials (%)	43	-



Interested in getting seed?

Please contact the MAF Office in your district

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MAIZE VARIETY

NOI MUTIN



NOI MUTIN has:

- big cobs
- high yields
- a 25% yield advantage over local varieties in low and upland areas
- a soft texture
- a sweet taste

NOI MUTIN — INCREASING MAIZE PRODUCTION IN TIMOR-LESTE

Variety information

Release name	Noi Mutin
Year released	2012
Botanical name	<i>Zea Mays L.</i>
Suited environment	Upland and lowland areas within the territory
Evaluation name	POT CMU VAR12
Breeder	Central Mindanao University (CMU, Philippines)



Background

Maize is the main food crop in Timor-Leste and is relied on by farmers for food security. This variety was introduced from the Philippines in 2006 and was tested for adaptation in research centres. The variety released committee from MAF and farmer representatives approved Noi Mutin for release on 24 November 2011. Adaptation trials were continuing at farmer's field with results showing a 27% yield advantage over their local equivalents.

Description

Seed colour	White
Seed quality	Semi-flint (not hard)
Plant height at harvest	1.8 m
Time to flowering¹	65 – 75 days after planting
Time to harvest¹	105 – 119 days after planting
Yield (t/ha)²	2.1 t/ha
Noi Mutin yield from top 10% of OFDTs³	5 t/ha
Yield advantage over local varieties in OFDTs (%)	25%
Weevil resistance	Medium resistance

1. Faster at lower altitudes
2. Data collected from 389 on farm demonstration trials during 2009-2011
3. Produced by OFDT farmers in Timor-Leste



Impacts

Economic benefits

Maize is mainly grown for household consumption in Timor-Leste, however small amounts are also sold in local markets to generate income.



Social benefits

Cultivation of Noi Mutin will provide an alternative planting option for subsistence maize growers in Timor-Leste. Its higher yields and good eating qualities should help contribute to greater food security in the country.

Environmental benefits

Noi Mutin originated from the CMU breeding program using conventional breeding techniques. It is not a genetically modified organism (GMO). Noi Mutin will increase the diversity of the current genetic pool in Timor-Leste.