Source Seed Production of Maize in Timor Leste

Asep Setiawan, Simão.M. Belo, Rafael Feliciano, Dorilanda Lopes Agostinho Alves, Moises Sarmento, Andre Alves, Nelia Aniseto

Seeds of Life, Ministry of Agriculture and Fisheries, Republic Democratic of Timor Leste

Introduction

Variety SELE and Noi Mutin Sele was Released by MAF in 2007; This *Open* **Pollinated Variety (OPV) has Original name LYDMR and** was introduced from CIMMYT

Noi Mutin: Released by MAF in 2012. This open Pollinated variety with original name PO7 was **introduced from Philippines**



Fig. 1. Sele cobs



Fig. 2. Noi Mutin seeds

Method

- 1. Seed classes of source seed according to Timor Leste seed system is Breeder seed, Foundation seed and certified seed.
- 2. Nucleus Seed, Breeder seed and Foundation seed are produced in Research center of Loes and Betano by pure seed officers.
- 3. Production of *Nucleus* and *Breeder Seed*
 - Selection of best 200 cobs
 - Planting in Ear to Row (200 rows)
 - Female:Male Line = 3:1
 - Detasselling of tassel before silking
 - Selection of 200 cobs for Nucleus seed
 - Bulk harvest of the rest as Breeder seed



Fig 3. Female and Male line



Fig 4. Nucleus Seed

- 4. Production of Certified seed
 - FS is planted to produce Certified seed
 - Isolation distance min 200 m
 - Field inspection by seeds officers is done before planting at vegetative and close to harvest
 - -Cleaning and drying properly at seed warehouse





Fig. 5. Field Inspection Fig. 6. Seed Drying

Fig. 7. Seed Cleaning



Fig. 8. Seed packing



Fig. 9. Packed seed ready for distribution

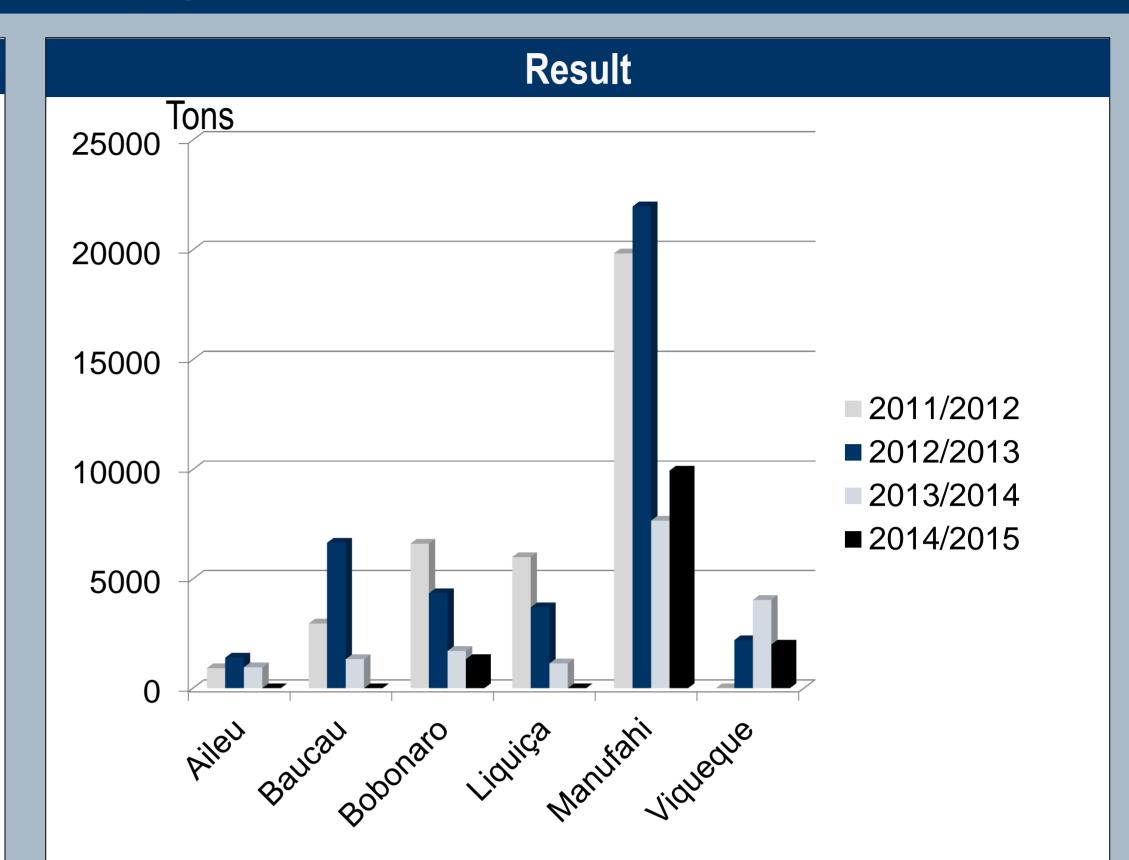


Fig.10. Certified seed production 2011 - 2015

According to National Seed Policy of Timor Leste, Certified seed production is produced to meet seed demand of commercial seed producers (CSPs) only. It is therefore since 2013/2014 less than 20t of seed is produced (Fig. 1). This amount is more than enough to meet maize seed demand of CSPs.

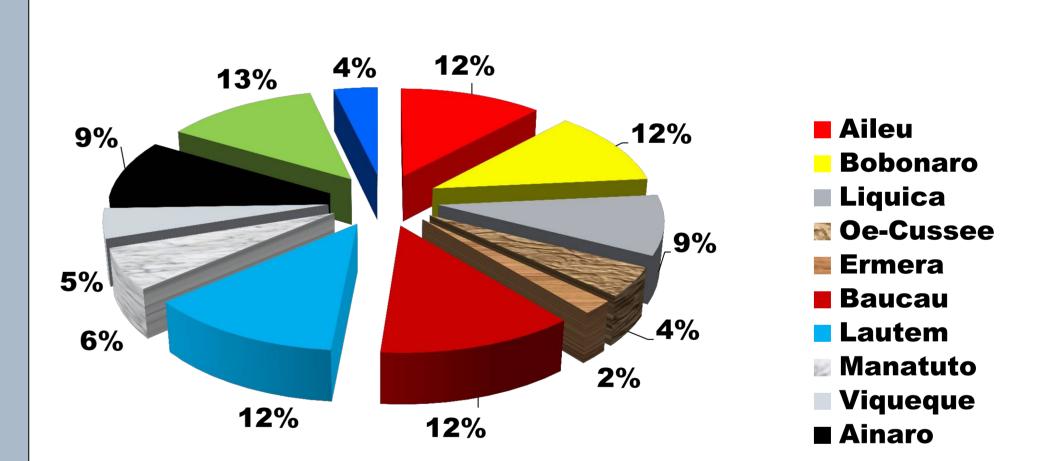


Fig. 11. Certified Seed distribution 2015

Tabel 2. Laboratory Standard of Source Seed in Timor Leste

Total distributed seed = 4854 kg

Klase Fini	Moisture content, max. (%)	Germination rate, min. (%)	Seed Purity, min (%)	Other variety admixture, max (%)	Other color seed, max. (%)
Foundation	12	80	98	0.0	0.5
Certified	12	80	98	0.2	1.0

Acknowledgment









