

Source Seed Production of Maize in Timor Leste

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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

Result

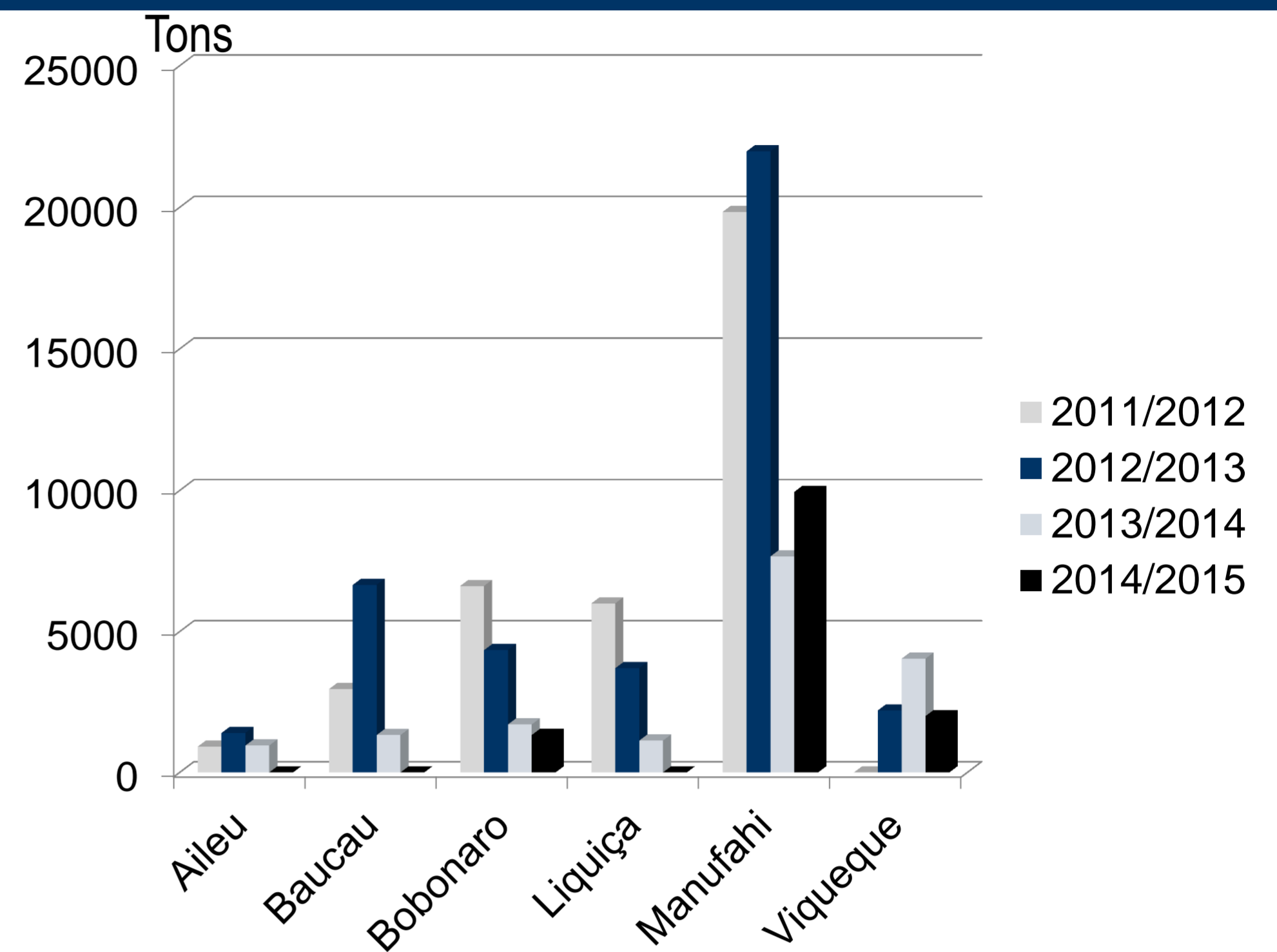


Fig.10. Certified seed production 2011 - 2015

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.

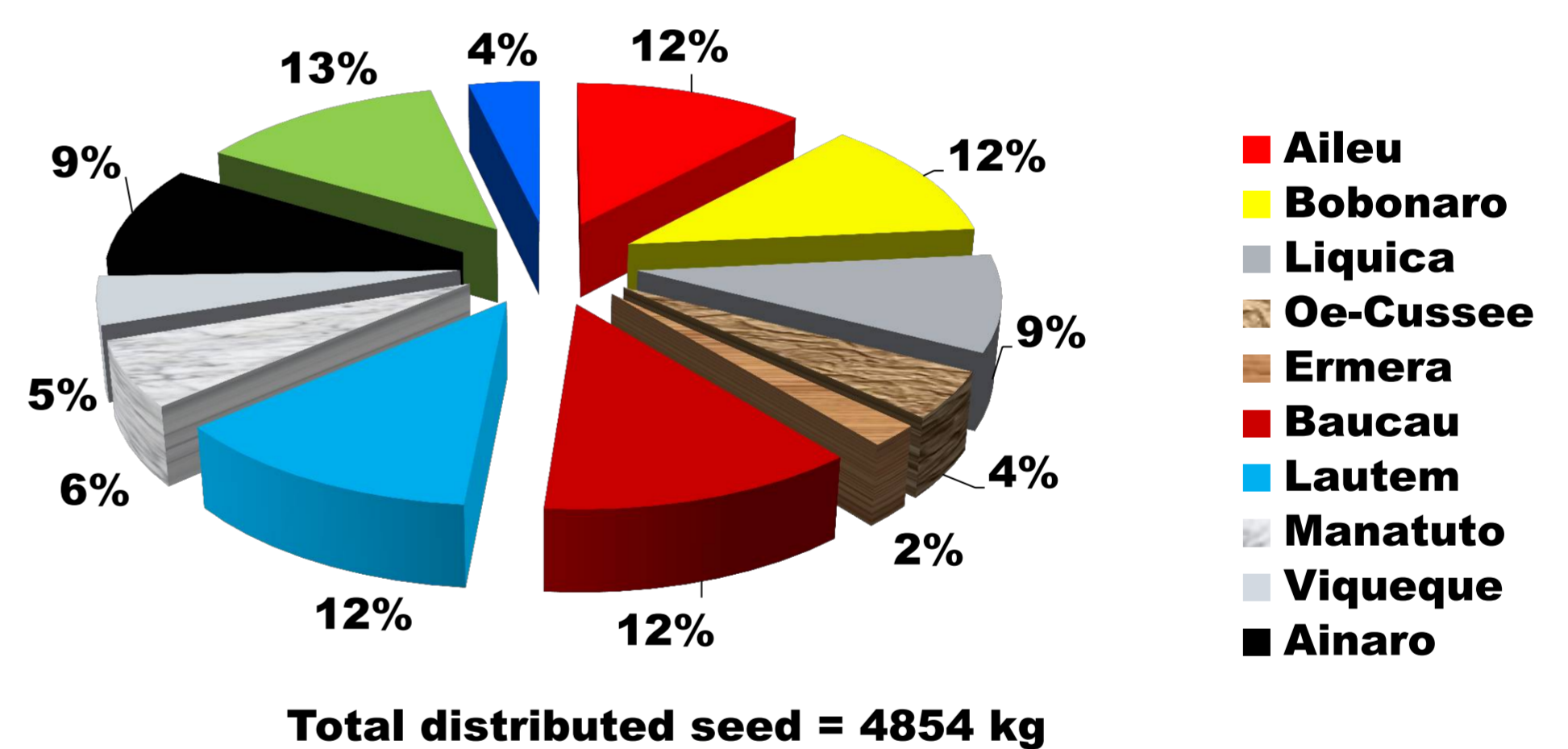


Fig. 11. Certified Seed distribution 2015

Table 2. Laboratory Standard of Source Seed in Timor Leste

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

Acknowledgment

