

Certified Seed Production of Peanut-Utamua in Timor Leste

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

Introdusaun

Classification of Peanut

Species: *Arachis hypogaea L.*

Sub Species:

1. *A. hypogaea hypogaea*

- Virginia Market Type (big and long seed)
- Runner Market Type (medium seed size)

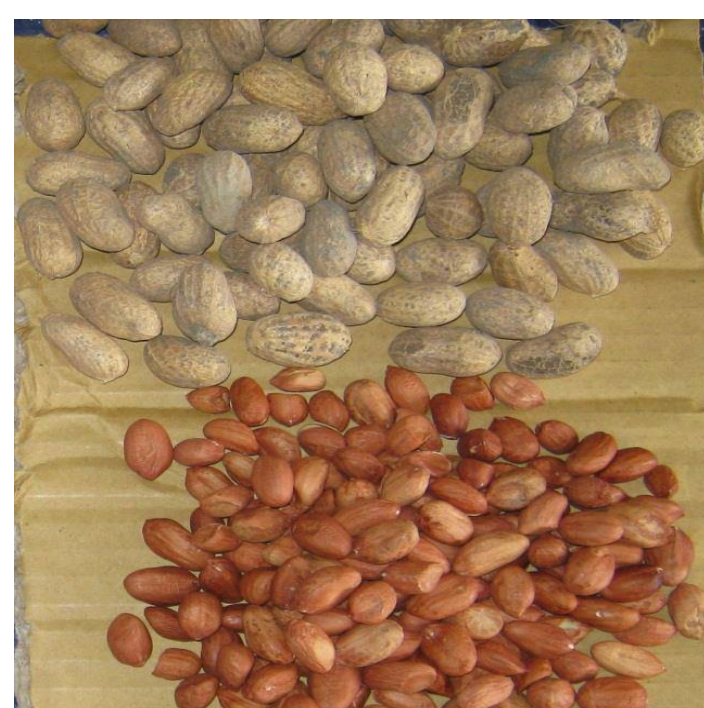
2. *A. hypogaea fastigiata*

- Spanish Market Type
- Round and small seed
- Valencia Market Type
- Round and medium seed



Utamua variety

Peanut-Utamua was released by MAF in 2007. This Virginia market type peanut was introduced from ICRISAT-India named PT 5. Seed weight of this variety is 100seed = 103 g.



Method

Seed Classes of Source Seed:

- Breeder seed (BS); Foundation Seed (FS); and Certified Seed

Production of Certified Seed

- Foundation seed should be planted to produce certified seed
- Distance Isolation 3m
- Rogueing should be done properly
- Harvest should be done when seed is mature. Some indication of seed maturity are inner side of the pod turned dark, and the Pod texture can be seen clearly
- Field inspection is conducted by seed officer before planting, vegetative, generative, and close to harvest



Fig.3 Certified seed plot



Fig.4 Field inspection

Seed Cleaning, drying and storage is done in seed warehouse

- Clean the pod from soil
- Dry properly (mc < 10%)



Fig.5. Seed drying, seed sortation

Seed Testing

- Moisture content, physical purity, and germination rate is determined by seed analyst in Seed laboratory.
- Laboratory standard of FS and Certified seed can be seen in Table 1.



Fig.6. Seed testing



Fig.7. packed seed ready for distribution

Result

Production of Utamua seed

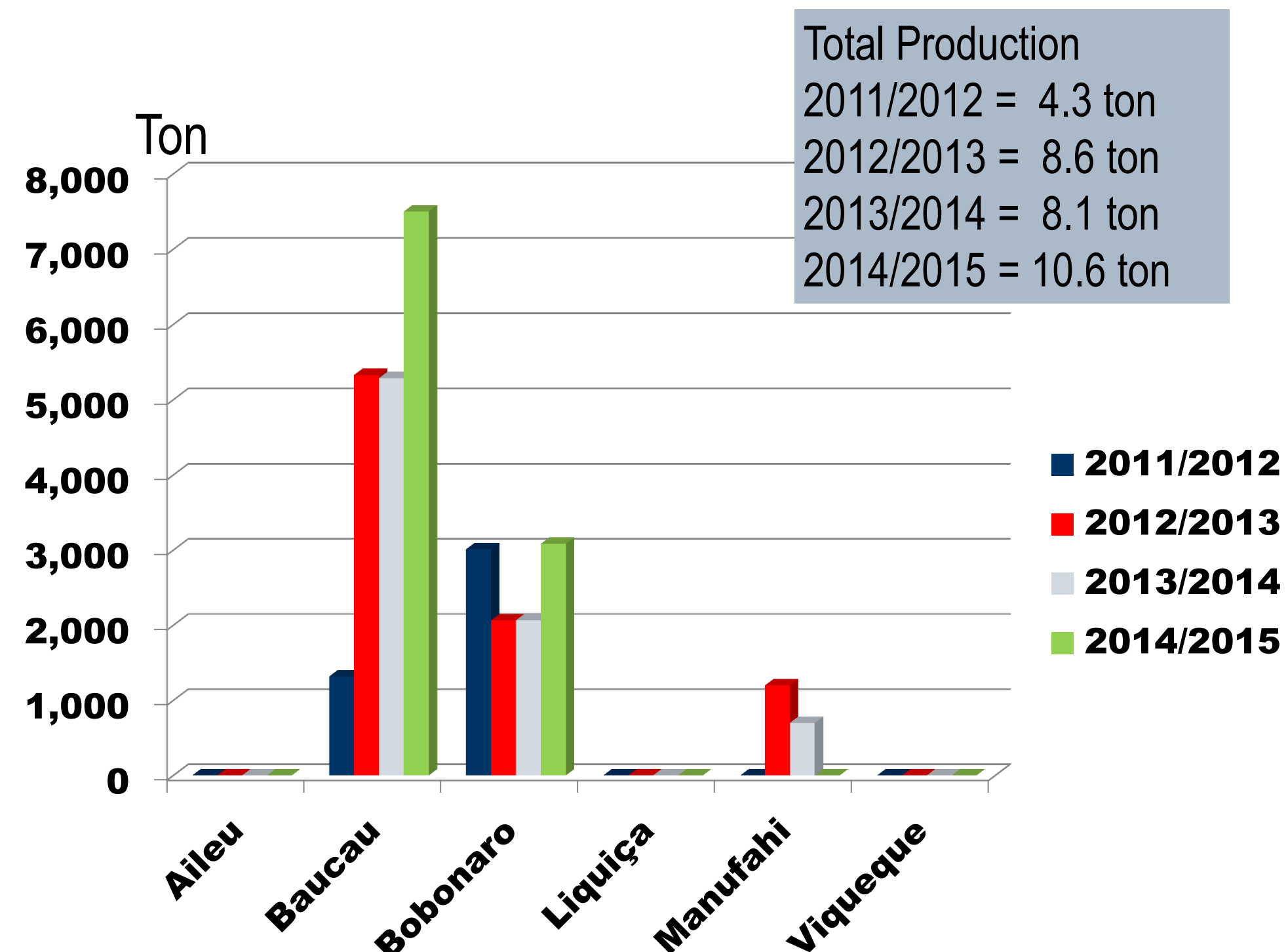


Fig. 8. Production of Certified Seed Peanut-Utamua (2011 – 2015)

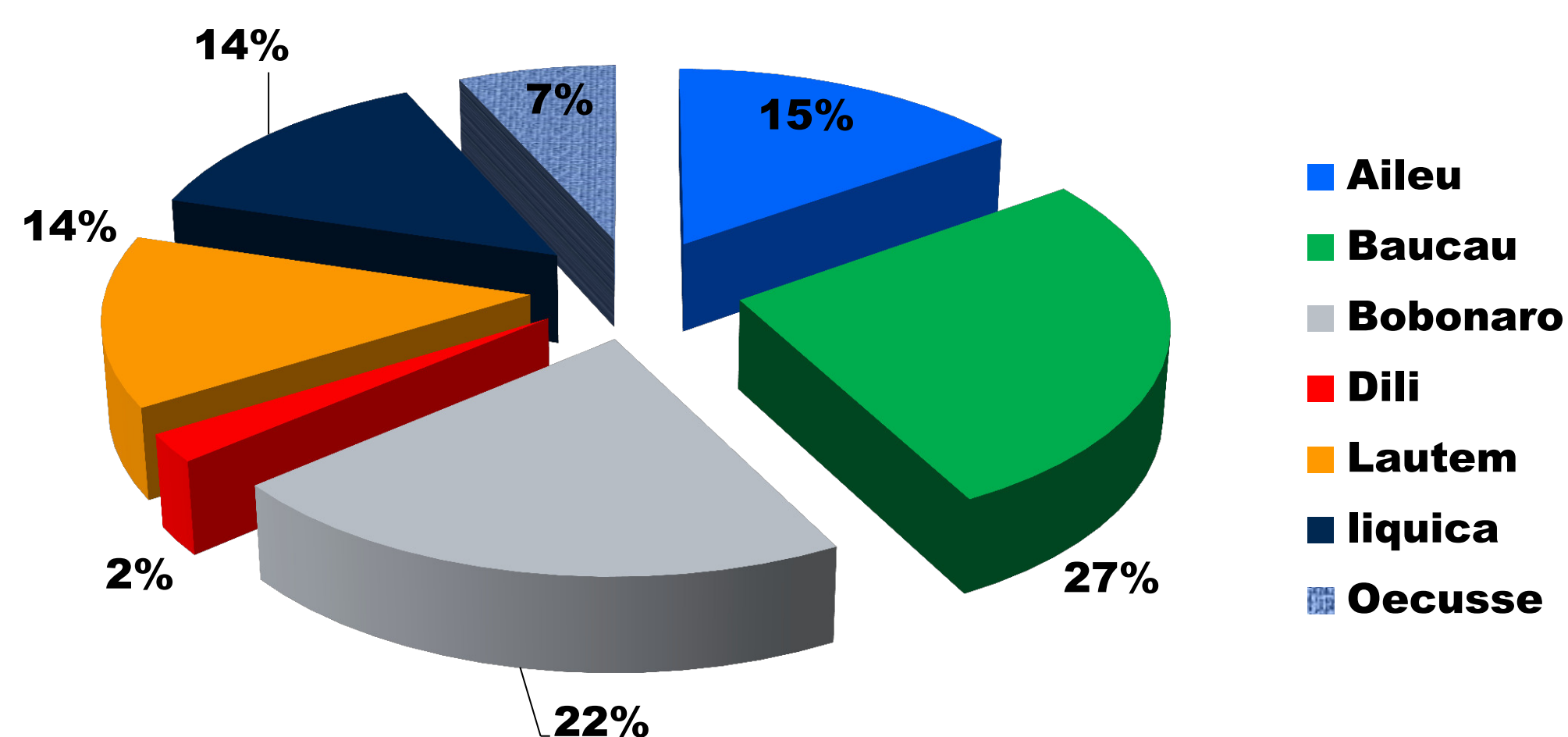


Fig 9. Certified Peanut-Utamua seed distribution for 2015/2016 season

Table 1 . Standard Laboratory of Source Seed Peanut in Timor Leste

Seed Class	Moisture content max (%)	Germination rates min (%)	Physical seed purity (%)
Foundation	11	80	99
Certified	11	80	98

Acknowledgment

