



Current Situation of New Plant Variety Protection System in Myanmar

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Introduction

Climate	- Diverse agro-ecological conditions (Tropical, Sub-tropical, Temperate)
Crop	- Rich bio-diversity (over 60 species) - Rich land and water resources
Agricultural country	- GDP - 26 % - Export earnings - 16.4 % - Labor force - 61.2 %

Source : Myanmar Agriculture in Brief 2013,DAP, MOAI

Introduction(continued)

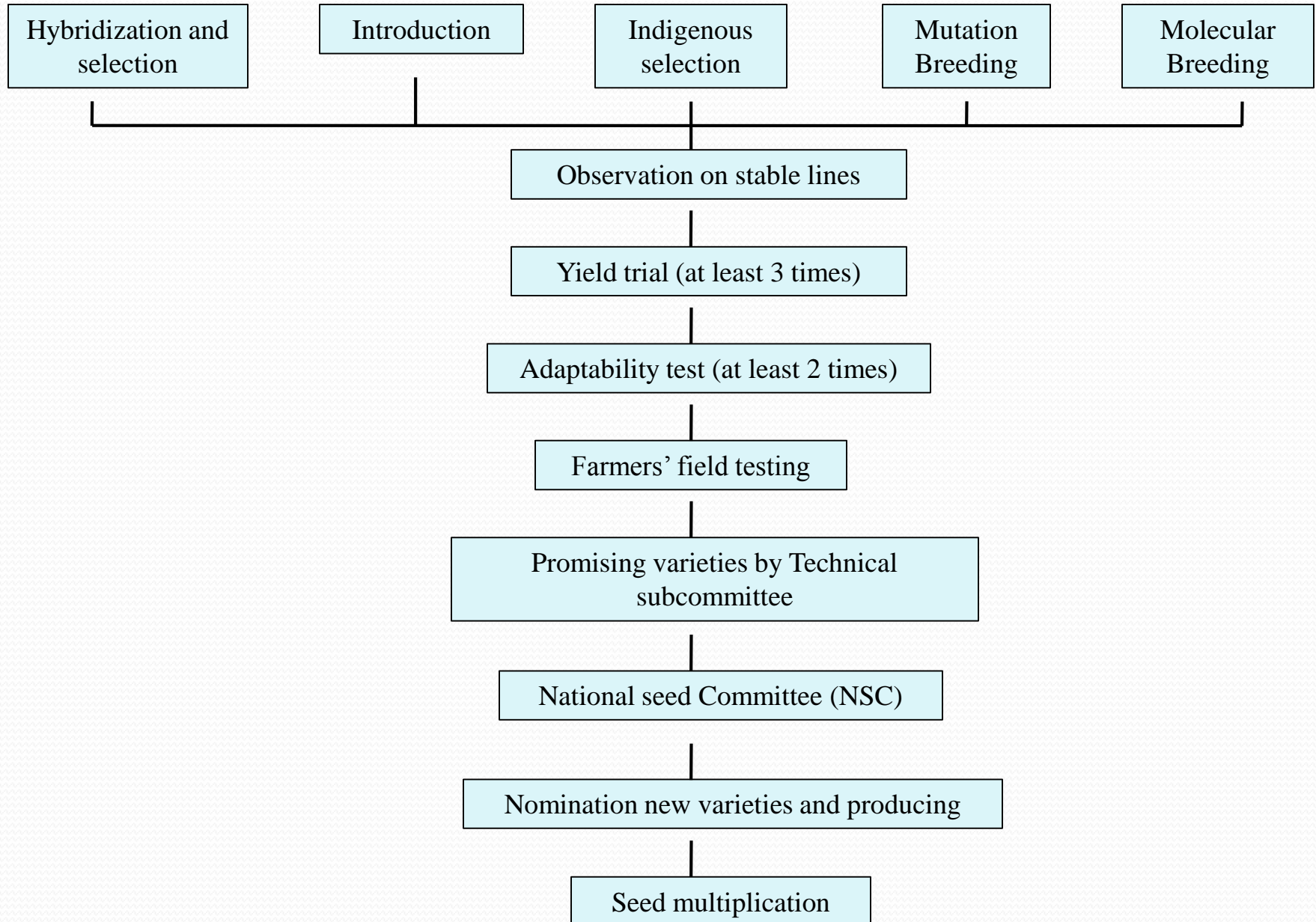
Sown area	- Cereal	(39.7%)
	- Pulses	(21.2%)
	- Oilseeds	(16.2%)
	- Industrial crops	(4.8%)
	- Horticultural crops	(1.6%)
	- Other Crops	(16.5%)

Source : Myanmar Agriculture in Brief 2013,DAP, MOAI

Ministry of Agriculture and Irrigation

- 1. Department of Agricultural Planning**
- 2. Department of Agriculture (DOA)**
- 3. Department of Industrial Crops Development (DICD)**
- 4. Department of Agricultural Research (DAR)**
- 5. Settlement and Land Records Department**
- 6. Irrigation Department**
- 7. Agricultural Mechanization Department**
- 8. Water Resources Utilization Department**
- 9. Myanmar Agricultural Development Bank**
- 10. Yezin Agricultural University**
- 11. Survey Department**

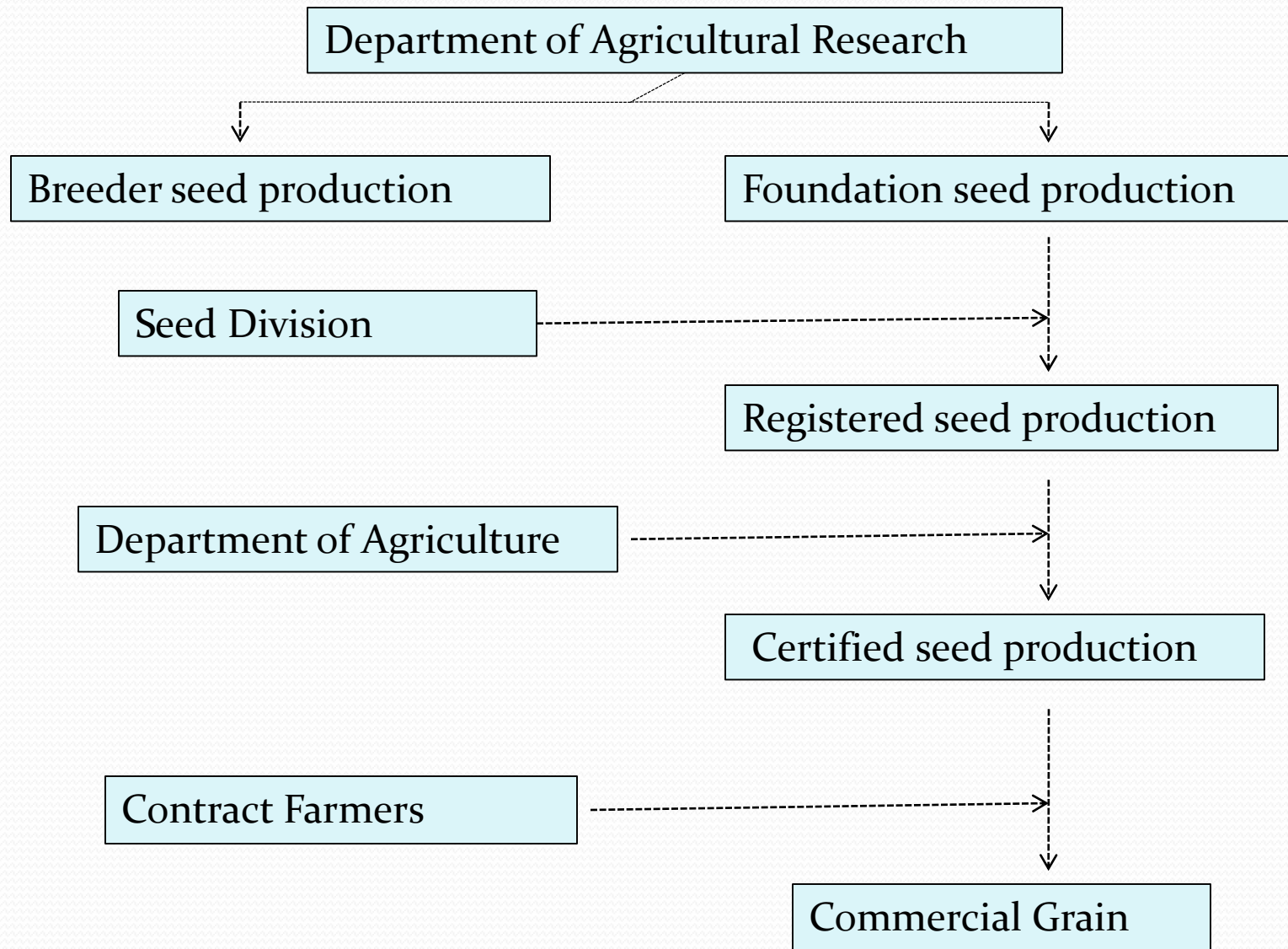
Procedure for New Varieties in Myanmar



Released Varieties in 2013-2014

1.	Rice	9
2.	Hybrid corn	2
3.	Sweet corn	3
4.	Wheat	6
5.	Groundnut	1
6.	Sesame	1
7.	Pulses	8
8.	Vegetable	1

Seed Flow



Genetic Resources in Myanmar

- **Seed Bank was established in 1990**
- **Collected accessions** - **483**
- **Characterization, Evaluation (Rice)** - **1095**
- **and Data management (Landrace)** - **137**
- **(other)** - **230**
- **Short term storage (10°C)** - **12370**
- **Medium long term (-5°C)** - **12130**

Collaborative Program and Achievements

- **Exchange of germplasm with IRRI**
- **Joint characterization & evaluation with ICRISAT**
- **National distribution - 4617 germplasms(10 crops)**
- **International distribution - 7472 germplasms(18 crops)**
(Thailand, Japan, Korea, Columbia, Belgium, Norway)
- **Morphological characterization data of Rice catalogue vol.1 has been published in 2009. (4500 accessions)**

Present Situation of Seed Industry in Myanmar

- **Enacted on 7 February , 2011**
- **Embodies the foundation of the seed industry**
- **Takes effect 2 years after (7 February, 2013)**
- **Seed development projects started in 1977**
- **Seed flow – DOA, DAR , Private seed companies**
- **National seed committee established in since 2004 supervises seed programs**
- **Both public and private sector need strengthening in seed industry**
- **Needs strong seed certification system and valid quality control system**
- **Strengthening of seed industry requires both local support and international assistance**

Seed Industry Development

- **Area coverage under major crop**
(Cereal crops- 38%, Oil crops- 20%, Pulses- 15%, Industrial crops – 4%)
- **All countries indentify under developed seed industry as the main factor limiting agricultural productivity**
- **Majority of the farmers are still producing their own seeds or using the grains as seeds**
- **Urgent need in Myanmar to enhance the seed replacement rate of various crops**

Trust Areas for Seed Development

- ❖ **Variety development, protection and production**
- ❖ **Quality assurance**
- ❖ **Seed distribution and marketing infrastructure facilities**
- ❖ **Transgenic plant varieties**
- ❖ **Import of seeds and planting materials**
- ❖ **Export of seeds**
- ❖ **Promotion of seed industry**
- ❖ **Strengthening of monitoring system**

Myanmar Seed Law

- has been drafted since 2000, repeatedly under review and revision.
- recently been submitted to the Attorney General's office for approval and enactment , also sent to UPOV
- grants the protection to new plant varieties and encourages Research and breeding of new varieties
- particularly in the private sector in line with Myanmar's obligations under TRIP agreement
- Farmers right to save, use, exchange, share and seeds for commercial purpose

Activities on Awareness of PVP system

- **Became a party to the Convention of Biodiversity in 1994**
- **Became a member of WTO in 1995**
- **Became aware of Intellectual Property Rights**
- **2004 - Participated to the UPOV- INGER Workshop**
- **2006 - Participated to conduct DUS test (INGER)**
- **2012 - PVP System Awareness Raising Seminar in Myanmar**
- **2003-2014 - PVP related Trainings, Workshops, Seminars**

Future Plan

- **To set up PVP office**
- **Collection of Reference varieties of main crops**
- **Continuous orientation of the staff on the use of UPOV CD-ROM**
- **In Country Training for Human Resource Development on plant variety system management**
- **Evaluation of Groundnut and Sesame varieties to assist for Development of Reference Varieties and National Test Guidelines**

Conclusion

- **Realize the establishment of PVP system**
- **Is inevitably important in Agriculture for the protection of plant breeder rights**
- **Require expertise from national and international organizations**
- **Needs national and international training and seminar**
- **must and urgent need to establish in Myanmar for the collaboration and cooperation in agriculture with the international organizations**

Thank you

