



Training Course for Distinctness, Uniformity and Stability Test of Tomato

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CONTENTS

1. Agricultural Situation
2. Organization for Seed industry
3. Status of Seed Industry
4. Regulation for Seed and Variety
5. R&D in Public/Private Sector
6. Status of PVP
7. Others



Agricultural Situation

Country Profile

- Land: 181,035km²
- Population: 14,701,717 (2011)
- GDP per capita : 830US\$ (2010)
- Population Density : 74 persons/km²
- Rural Population: 85%
- Khmer origin: 90%, Ethnic, Chinese; Vietnam; Islamic ...10%.
- Season : Dry and rainy (dry started from November to April and rainy started from May to October)



Environment condition

- Location : Tropical Zone
- Clear season distinctness :
 - Wet season started from May. to Oct.
 - Dry season started from Nov. to Apr.
- Climate status (average)
- -Tem. 24-35 °C
 - Rainfall 1 200-5 200mm
 - Humidity 73-94%



Main crop statistic

- Rice : 2,795,892ha
- Maize : 213, 622ha
- Cassava : 206,226ha
- Sweet potato : 11,452ha
- Vegetable : 52,732
- Fruit : 190, 000ha
- Mungbean : 69,206ha
- Peanut : 20,041ha



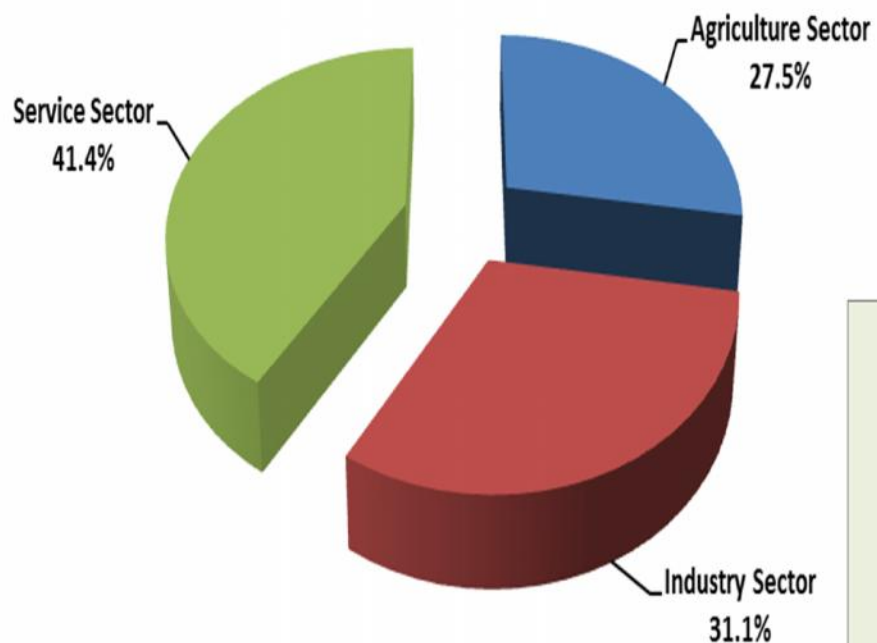
Main crop statistic (Cont.)

- Soybean : 103, 198ha
- Sesame : 48,299ha
- Sugarcane : 17,207ha
- Jute : 594ha
- Tobacco : 10,062ha
- Rubber : 181,430ha

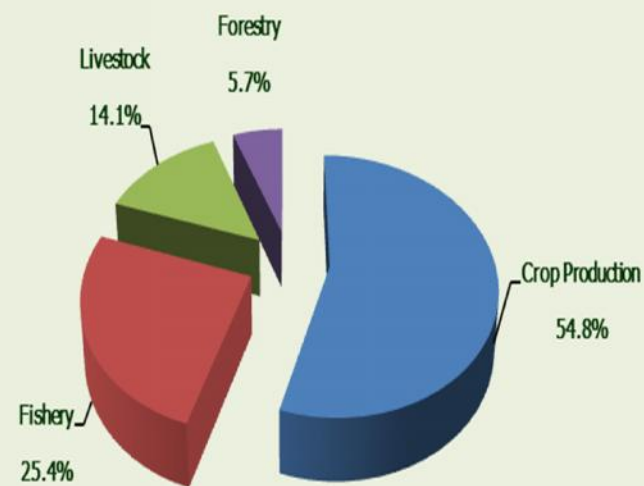


Agriculture GDP shared by section (2012)

Share (%) of Agriculture Sector in GDP 2012

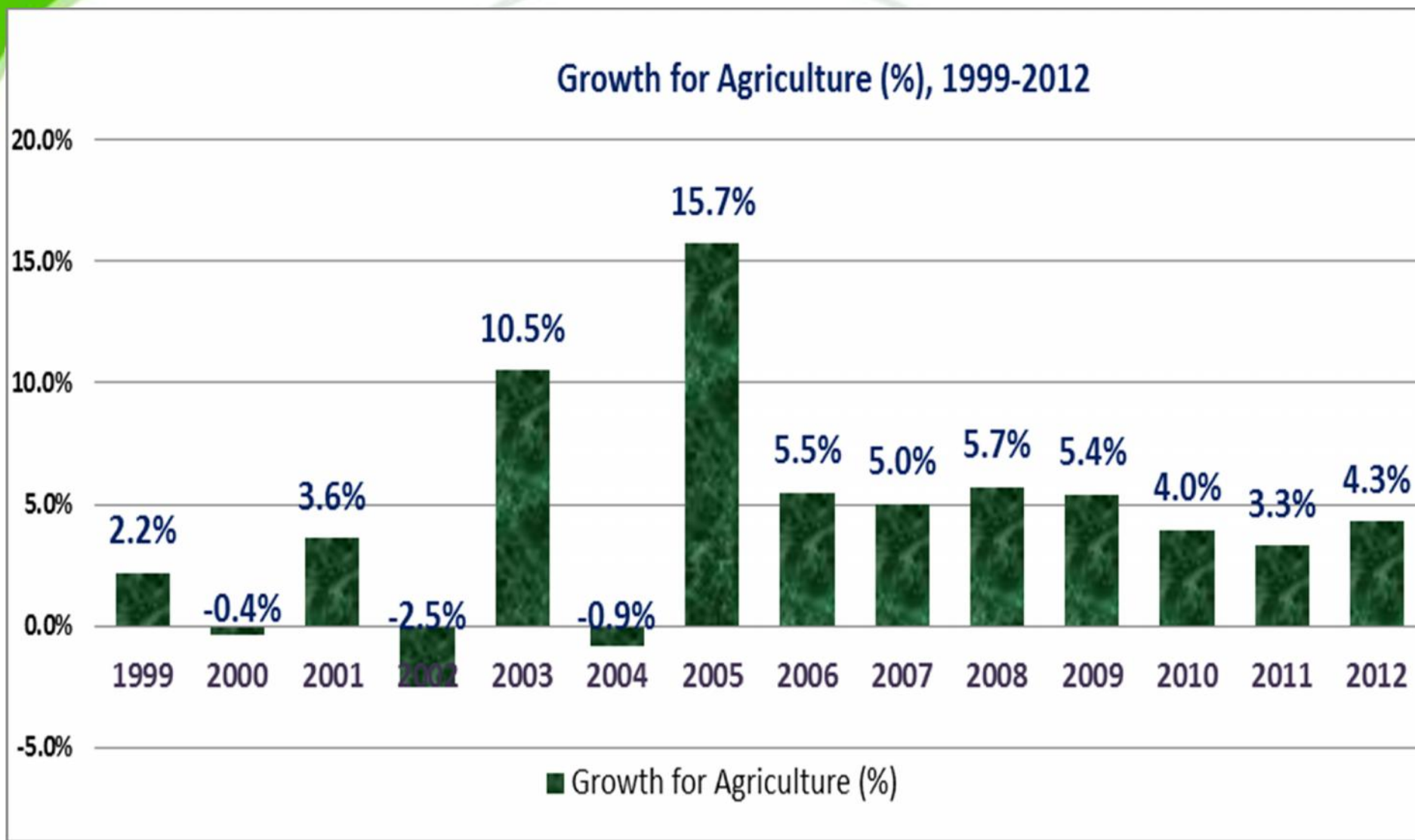


Composition of Sub-Sector in Agriculture, 2012





Growth Rate (%) for Agriculture Sector





Status of Seed Industry

- Sector responsibilities for crop, based on considerations (i) Genetic structure of crop varieties (ii) Seed volume to value ratio and (iii) Technical requirements for quality seed production.
- Rice seed supply
- Vegetable crop seeds
- Industrial crops
- Finance for the seed industry



Organization for Seed industry

I. For public sector , Under MAFF, there are 3 organizations involved directly :

1. Rice crop

2. Horticulture crop

3. Industrial crop

Additionally, 3 other organizations may have activities related to seeds (i) SPS, (ii) NAL and (iii) DAL

II. For private sector or Combination of both sectors will be considered



Regulation for Seed and Variety

- Seed and PVP law enacted in 2008 and National PVP law mostly complied with UPOV convention 1991 act .
- Bio-safety law enacted in 2006.
- Phyto-sanitary under drafting.
- Rice is main products for export (recently, this year 2014, we exported around 380 000kg of rice.



R&D in Public/Private Sectors

1. Public Sectors in MAFF

- General Directorate of Agriculture (GDA), there are 15 stations/Farms/centers in whole country and main funds was supported by Government.
- Cambodia Agricultural Research and Development Institute (CARDI), it is a institute cooperated with IRRI project since 1988.

2. Private Sector

Most activities concerned the rice seed multiplication to sale



Status of PVP

- Translated UPOV Convention and Guidelines on UPOV Convention as a basis for raising and understanding among national concerned stakeholders
- English version of the Law on Seed Management and Plant Breeder's Right to be used as an official working paper for further consultation with UPOV (mostly comply with UPOV convention 1991 act).



Status of PVP (Cont.)

- Administrative issue under DIP-MIME
- Technical issue under GDA-MAFF
- Developing Infrastructure Chart
- Making some regulations under law by MIH and MAFF



Others

- **DNA Marker Usage**

Human DNA laboratory is working and under management of Ministry of Health (only private sector is working- Private Clinic).

- **LMO (GMO)**

- A laboratory for Biotech in GDA/MAFF, but it is not operation.

- A laboratory for assessment under Ministry of Environment



Conclusions

- Recently Cambodia tries its efforts to establish the PVP system to promote new breeding varieties as one of the observers states of UPOV;
- Widening the cooperation with EAPVP Forum and UPOV in exchanging information experiences for the development of Plant Breeder's Right System in Cambodia;
- The DUS TG is new for Cambodia, needed capacity building on specific DUS technical training for Cambodian officers.
- Generally, seed certificate and PVP system are not implemented yet and organization chart still not clear for operation of both issues.
- Main inspection of public sector is Seed quality control



Thank you for your attention!

