




**Pest Surveillance
in Rice Seed
Production Field**

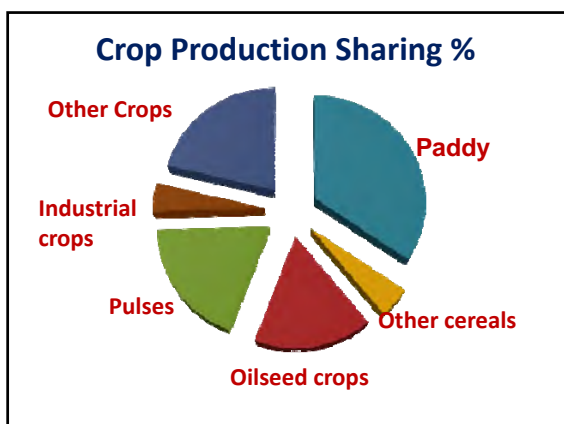


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Country Profile		MYANMAR
Land Area		- 676,756 sq km
Population		
Whole country		- 60.280 mil(2010 estimate)
Population growth		- 1.52 %
Urban Population		- 17.894%
Population density		- 73.9 per sq kilometer
GDP		
GDP at current price		- 9225.275 billion kyats
GDP at constant price		- 5781.837 billion kyats
Social indicators		
Life Expectancy (years)		- 61 (male), 64 (female)
Adult Literacy Rate(%)		- 88.7 (male), 79.5 (female)
Infant Mortality Rate per 1000 live births		- 62.1 (Urban), 65.0 (rural)
HDI (2011)		- 0.0483

Structure of Production	
Agriculture (including Livestock, Fisheries & Forestry)	41.7%
Mining	0.7%
Manufacturing	16.0%
Power	0.2%
Construction	4.3%
Transportation, Communication	12.9%
Other Services	2.7%
Trade	21.5%

Principal crops of the country				
Major food crops in Myanmar				
Sr.No.	Categories	Sown areas ('000 ha)	Production ('000 mt)	Sown area (%)
1	Cereals	8,908	33,950	33.3
2	Oil seeds crops	3,549	3,118	11.1
3	Pulses	4,277	3,269	11.1
4	Culinary crops	262	1,904	1.9
5	Vegetables	508		
6	Others	5,457		2.2
	TOTAL	22,961		100



70% of the people in Myanmar are engaged with farm sectors

How To Eradicate the poverty ?

For promoting the farmers' living standard

➤ **Transfer the knowledge of high yield varieties production to the farmers**

Pest Surveillance in Seed Production Field in Yezin Agricultural University

- ❑ To know the incidence of the pest
- ❑ To know the fluctuation of main rice pests
- ❑ To monitor the new in visit pests

Pest Surveillance in Rice Seedling Stage

Pest Surveillance in Rice Seedling Stage

Pest control in Rice Seedling Stage

Pest Surveillance in Rice Seed Production Field

Pest Control in Rice Seed Production Field

Insect pests of Rice mostly occurred in Myanmar

- (1) Yellow stem borer (*Scirpophaga incertulas*) throughout the season
- (2) Brown plant hopper (*Nilaparvata lugens*)
- (3) Green leafhopper (*Nephotettix* spp.)
- (4) White-backed plant hopper (*Sogatella furcifera*)
- (5) Leaf folder (*Cnaphalocrosis medinalis*)
- (6) Rice caseworm (*Nymphula depunctalis*) sporadic
- (7) Rice hispa (*Dicladisa armigera*)
- (8) Rice swarming caterpillar (*Spodoptera mauritia*) sporadic
- (9) Rice gall midge (*Orseolia oryzae*) sporadic
- (10) Rice thrips (*Baliothrips biformis*) summer rice
- (11) Rice earbug (*Leptocorisa* spp.)
- (12) Rice earcutting (*Mythimna separata*)
- (13) Rice green-horned caterpillar (*Melanitis Leda ismene*)
- (14) Rice skipper (*Pelopidas mathias*)/*parnara guttata*

Challenges

- Financial support
- Limiting of labour
- Specialists for the specific area

Future Risk

- ➡ Goldren Apple Snail
- ➡ Brown Plant Hopper
- ➡ Fruitfly