



**Regional Stakeholder Consultation on Climate
Services for
the Third Pole Region
Jaipur, India
9-11 March 2016**

Name of Country: NEPAL

**National Capabilities for Production, Management,
Delivery and Application of Climate Services in
Agricultural Sector**



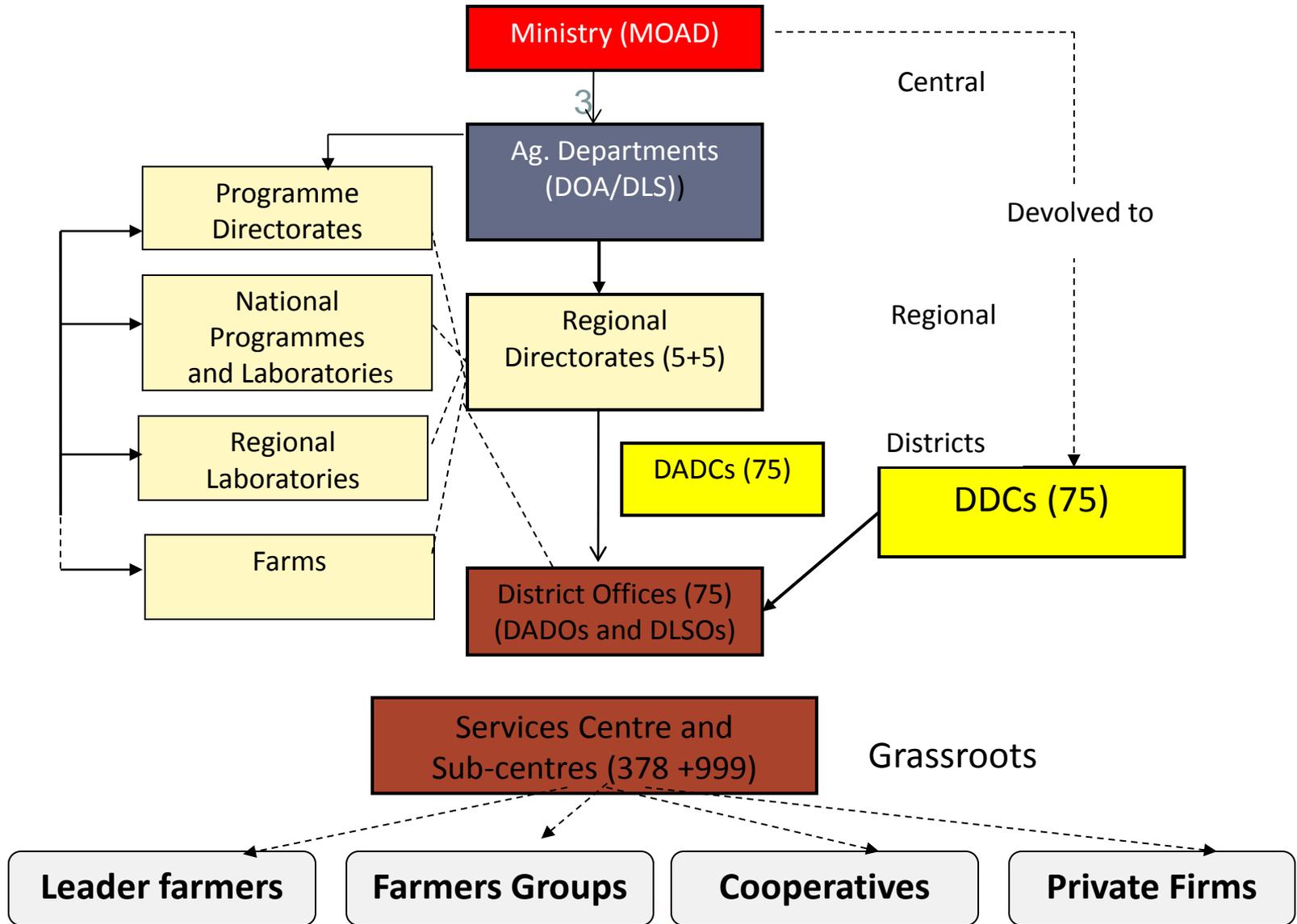
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Presentation Outlines



1. Capacities for Provision of Climate Services
 - Institutional Capacities
 - Technical Capacities
 - Human Capacities
2. Current status of provision of climate services
 - Disasters Occurrence in Nepal (2000-2014)
 - Food Sector Preparedness
 - Disaster Management in Agri-Sector
3. Gaps and challenges
4. Future Perspectives for Climate Services

Institutional Capacities in Ministry of Agricultural Development



Technical Institutional Capacities

General

- Technical Divisions in the Ministry: 5
- Technical Departments Under the Ministry: 2
- Research Organizations: 1
- Program Directorates: 12
- Development Boards & Council: 4
- Development Committee: 3
- Central Offices: 3
- Regional Directorates: 5
- District Offices: 75
- Service Centers: 378
- Various Laboratories: 25

Particular

- Technical Sections in the Ministry: 2
- Focal units in the Departments : 2
- Desk Officers in 5 Regional Directorates: 5
- Other Offices: 3

Concerned Sections in Ministry

- Disaster Management Section
- GIS Section
- Food & Nutrition Security Section
- Agri_business Promotion Section

Human Capacities

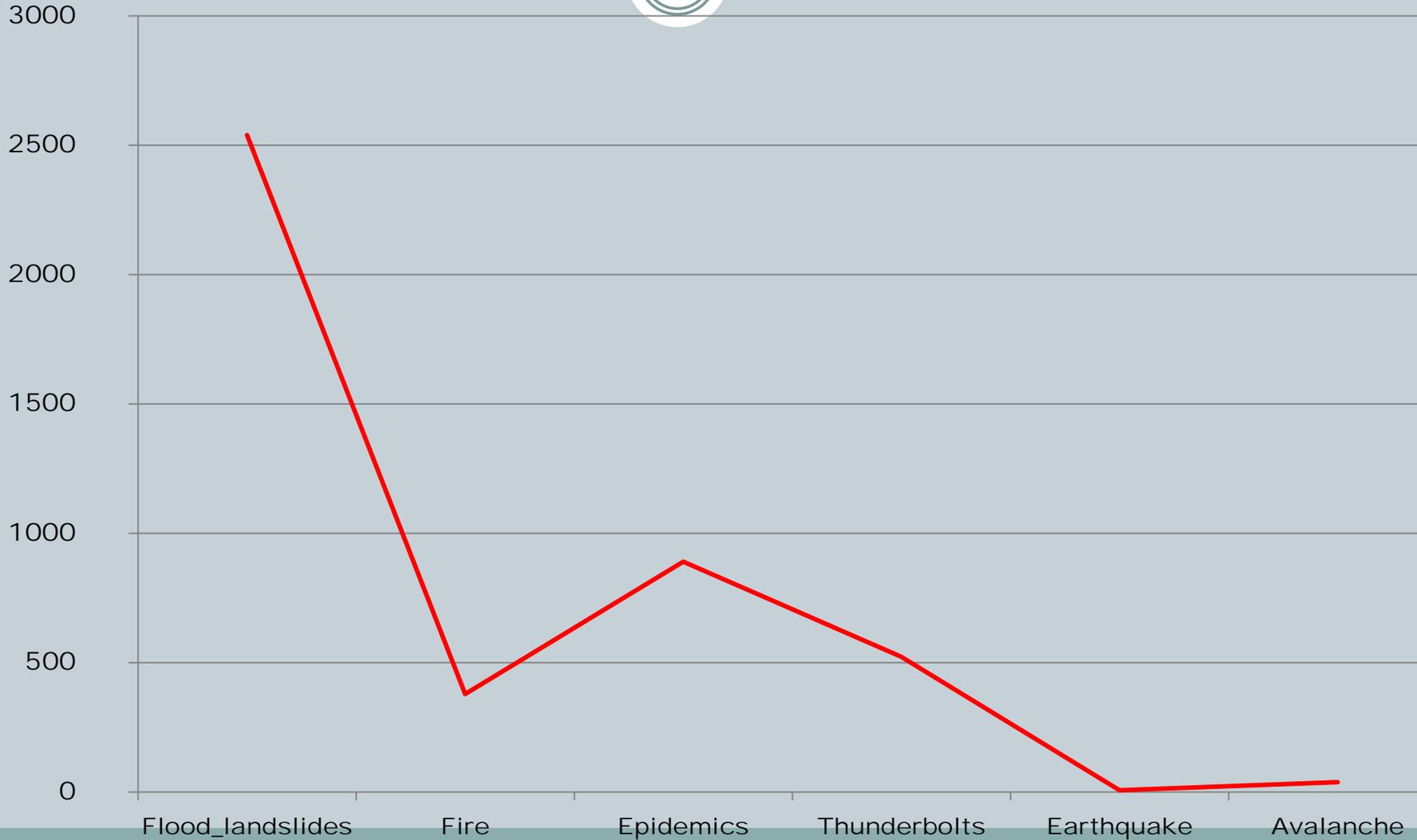
General

- Technical Divisions in the Ministry: 132
- Technical Departments Under the Ministry: 5205
- Development Committee, Boards & Council: 3857

Particular

- Technical Section in the Ministry: 2
- Focal units in the Departments : 2
- Desk Officers in 5 Regional Directorates: 5
- Other Offices: 6

Disasters Occurrence in Nepal (2000-2014)



Food Sector Preparedness

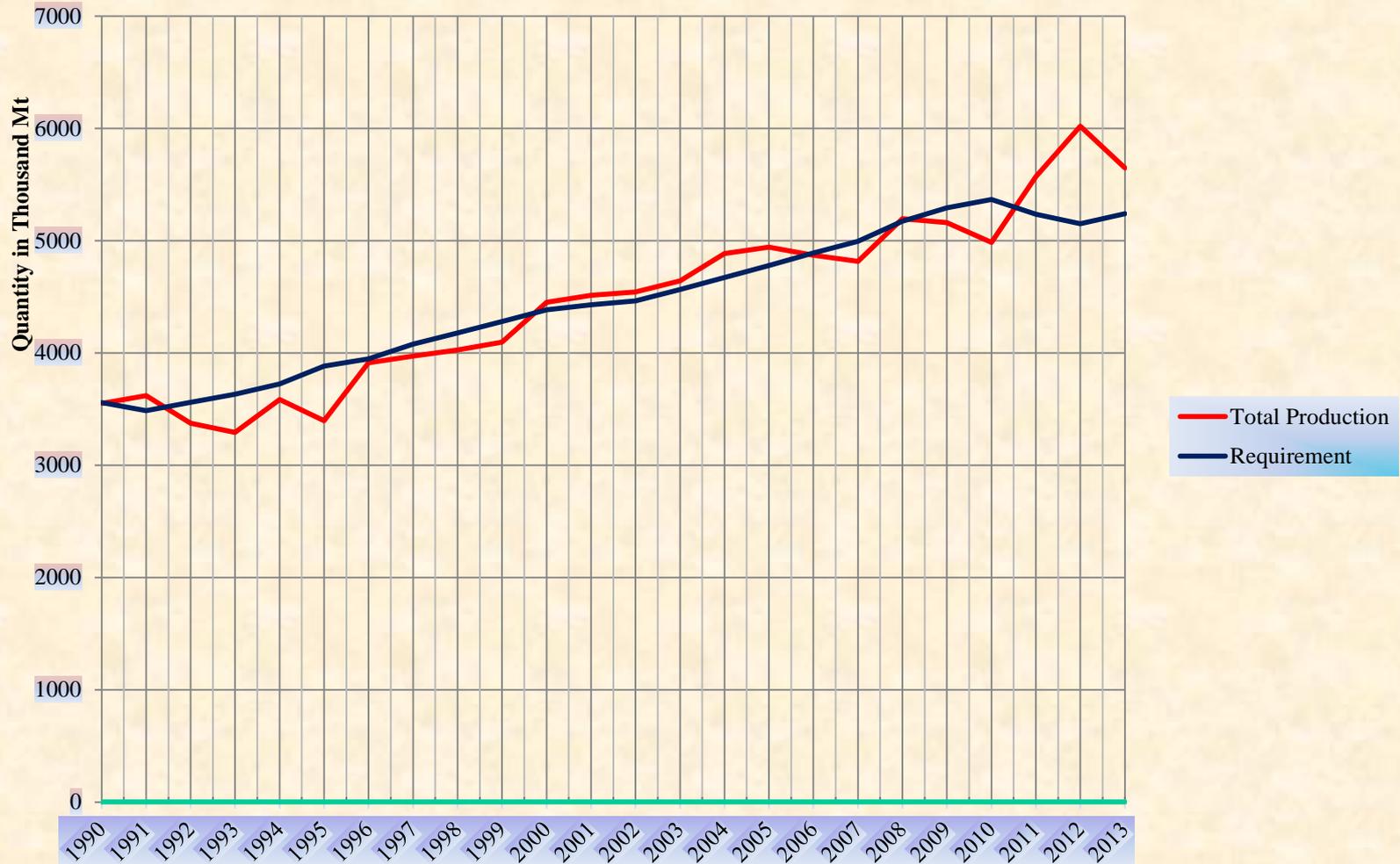
Food Security Status by Districts 2014/15

Belts	Deficit Districts	Surplus Districts	Total Districts	Remarks
Mountain	10	6	16	Indigenous varieties protection program
Hills	14	24	38	Change in food habit campaign
Terai	6	15	21	Paddy mission program in 13 districts
Total	30	45	75	Production & requirement data shows food sufficiency

Food Sector Preparedness

➤ Food Grain Production and Requirement-National level

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Disaster Management in Agri-Sector

1. Tying up some DRR programs in Regular Agri-programs lowering the risk on Climate Change & Natural Calamities

- Plantation of Suitable Varieties by location
- Use of best cultural practices for the particular areas
- Crop and Livestock Insurance Program
- Awareness Raising & Supportive Programs on Disaster Management
 - Drop, sprinklers' use & rain water harvest
 - Regulation on Pesticides Import and Use
 - Wind breaks Plantation and hedges in Fruit Orchard
 - Soil Testing and Quality control of its fertility

Disaster Management in Agri-Sector contd...



2. Adoption of Precautionary / Information Delivery System

- Weather updates and forecast
- Information on long period fog, heavy rain and droughts
- Technical notices and information through Radio and TV

3. Application of Emergency Response Mechanism

- With the help of International Development Partners like FAO, WFP, UNDP, the funds collected and utilized through DDRC

4. Disaster Relief Programs for Victimized Farmers

- Based on the degree & quantity of losses of crops, livestock & poultry etc,

Gaps and Challenges for Nepal

- As a disaster prone country, disaster management itself & coping Climate Change – huge challenge for Nepal
- Existing mechanism and capacity to cope climate change and disaster is weak
- Institutions responsible are in weak coordination
- Focus on only relief and recovery but not on preparedness
- Transparency & collaboration for effective inter & intra organizational coordination
- Requires special institutions for climate services expertise
- Finding out vulnerable zones and formulate long term plan
- Establishment of common technical platform for sharing and knowledge dissemination

Future Perspectives for Climate Services

- Analysis and identification of specific agro_met stations as per the comparative advantages for the specific agro_products
- Development of Climatic risk management tools and their application along with GIS use
- Local level agro_met products and their respective advisories
- Establishment of call center and its use for climatic information generation
- Research, academia and agri_extension delivery system and application of agromet advisories
- Seasonal, monthly and weekly weather forecasting efficiency
- Potentiality of Crop & livestock insurance and agri_business promotion programs with climate service delivery system
- Development of various breeds & varieties for coping climatic adversities

Some Glimpses of Climate Change Effect and Effort Made to Cope them in Nepal

The Drought at Newly Transplanted Paddy Field



Some Glimpses of Climate Change Effect and Effort Made to Cope them in Nepal

Recovery and Relief



Some Glimpses of Climate Change Effect and Effort Made to Cope them in Nepal

Epidemic; the Avian Influenza



Some Glimpses of Climate Change Effect and Effort Made to Cope them in Nepal

The Hailstorm



Small Irrigation Special program

Rain Water Harvesting in Plastic Pond



Some Glimpses of Climate Change Effect and Effort Made to Cope them in Nepal

Canal with Polythene pipe and Collection tank



Some Glimpses of Climate Change Effect and Effort Made to Cope them in Nepal

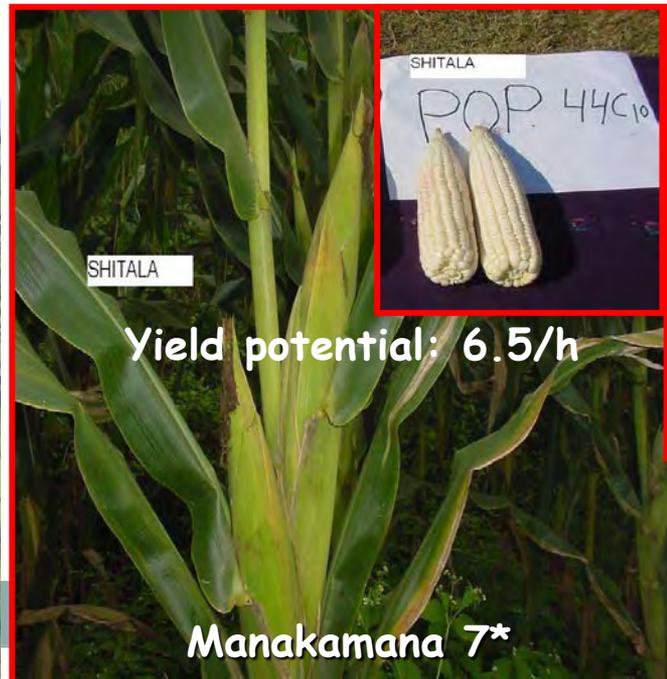
Use of Plastic Tunnel

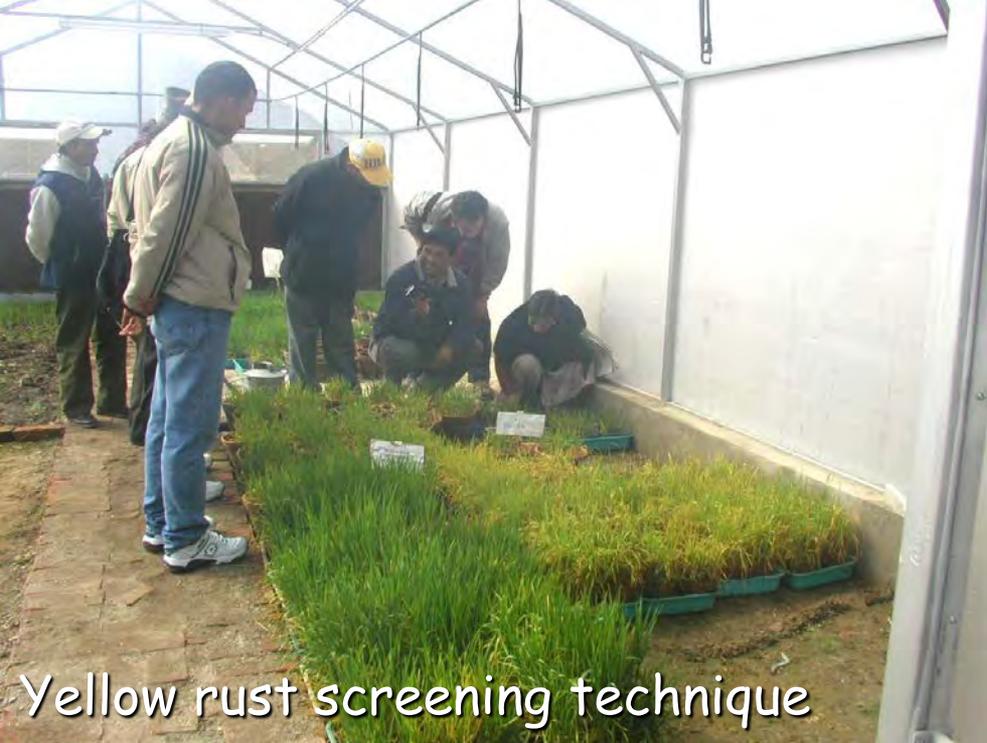




*Proposed names

Gaurav, Hybrid maize

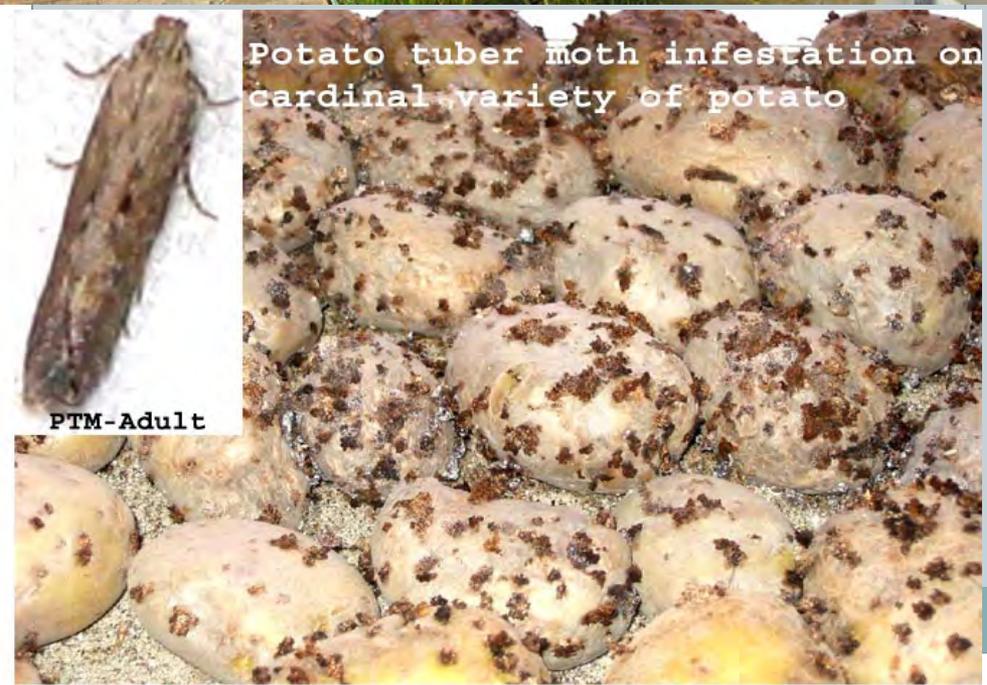




Yellow rust screening technique



Yellow rust resistant wheat variety



Potato tuber moth infestation on cardinal variety of potato

PTM-Adult



PTM Resistant Variety Q115.6
(Late blight resistance observed)

An aerial photograph of a construction site. In the foreground, a large, rectangular concrete slab is being poured, with white plastic sheeting visible around its edges. A black fence runs across the middle ground, separating the concrete area from a fenced-in green field. In the background, there are rolling green hills under a clear sky. The text "Thank You for Your Kind Attention" is overlaid in a large, bold, yellow font across the center of the image.

**Thank You
for Your
Kind
Attention**