

Minutes of the WPEP Rust Surveillance Meeting December 23, 2013

W-PEP wheat rust surveillance meeting was held on 23rd December, 2013 at National Insect Museum, NARC, Islamabad. Dr. Md. Imtiaz (CIMMYT) and Dr. Anjum Munir (CDRI) chaired the meeting. National partner institutional representatives from all provinces including AJK attended the meeting. Participants are listed below. Following are the main agreed deliverables and highlights of the meeting:

1. Focal points persons for survey:

- Following are the focal persons nominated for coming cropping season. They will coordinate and assist other WPEP members:
 - Sindh: Mr. Shafi Muhammad Khatti in close collaboration with Khalil Khanzada, CDRI-Karachi
 - KPK: Mr. Irfan Shah in collaboration with other provincial partners
 - Punjab: Mr. Faqir Muhammad, AARI Faisalabad in close collaboration with RARI Bahawalpur and BARI Chakwal
 - Balochistan: Akhter Gul ARI-Quetta. in close collaboration with Jahangir Afridi AZRC Quetta
 - AJK: Mr. Abdul Hafeez with support from CDRI, NARC Islamabad
- Mr. Fayyaz from CDRP-NARC will fill gaps left in areas not covered and also provide backup to survey team especially in AJK
- Khalil Khanzada CDRI-Karachi will assist in Sindh
- Jahangir Khan AZRC Quetta will assist in Balochistan
- RARI Bahawalpur and BARI Chakwal will develop their survey work plan and share with WRI Faisalabad to finalize the Punjab surveillance work plan
- All focal persons will submit their work plans before 15th January to CDRI-NARC and CIMMYT for compilation and development of a master work plan for 2013-14 rusts surveys in Pakistan

2. Survey Supplies:

- New survey forms will be printed with some modification in the previous format, as suggested Dr. Atiq Rattu, newly appointed wheat coordinator
 - Variety name will be added in the form
 - One more box for GPS data recorded will also be added
 - Farmers name/cell number
 - Printed decimal in GPS reading box
 - Incidence and severity scale
- Two GPS units for ARI Quetta and one for WRI Sakrand will be purchased and Khalil will assist in the procurement

3. Others suggestions/issues:

- Find out and contact the local staff in the security prone areas especially in Balochistan, and KPK, train them on how to collect the rust samples and assign them the task of collecting and dispatching samples.
- AJK will submit work plan with required budget for survey

- AJK will include new areas for survey during this cropping season and those will be mentioned in the work-plan
- Lesson learned: as informed by Javed Mirza, last year, sample received in paper bags were in bad condition, so don't use these bags this year
- Don't collect and send single streak samples of YR
- Focal persons will send the request of supplies to CIMMYT such as bags, survey books, plastic jars
- Monitor barley and grasses during survey and if find some infections; send the samples to CDRI-Murree.
- Gene functionality set of 15 entries have been planted at two locations (CDRI-Karachi and Thatha) in Sindh, while 4th BRS has been planted at CDRI Karachi
- Trap nurseries LRTN, YRTN and SRTN have been planted in Pakistan
- RRTTF inoculum will be needed in the 1st week of Feb. to inoculate nurseries planted at Karachi. Dr. Javed informed the participants that this year enough in-house inoculum is available.

CIMMYT under newly funded AIP project is planning to evaluate few fungicides as a part of preparation to control wheat rust in case of rust epidemics and the opportunity was used to get some feedback on the proposed activities to measure yield losses and evaluate efficacies of a few selected fungicides. Dr. K.D. Joshi who recently joined CIMMYT, INT. Pakistan was introduced to the participants.

A brief discussion was also held to identify representative sites for assessing yield loss of wheat by spraying fungicides. This initiative will also look at the efficacies of various fungicides in controlling or reducing wheat diseases. The cost: benefit aspect of using fungicide for controlling wheat rust will also be estimated from these experiments.

A very usefully discussion was held to identify the representative sites for this task. Finally the meeting agreed on the following sites with their respective potential focal point persons.

Rust	Representative Research Station	Focal Person	Focal Point person support
Leaf rust	RARI, Bhawalpur	Director	Saeed Arshad/there was other person
	WRI, Faisalabad	Dr Makhdoom	Faqir Muhammad
Stem Rust	Karachi Station	Director CDRI, Karachi	Khalil Khanzada
	Thatta (on farmer's field under natural inoculum)	Director CDRI, Karachi	Khalil Khanzada
Yellow rust	NARC Islamabad	Dr Anjum Munir	
	CCRI, Nowshera	Director	Irfan Ahmed Shah
Yellow and	HARI, Kaghan	Drs Atiq/ Munir	

leaf rust			
-----------	--	--	--

A total of four fungicides were discussed those could be used in the fungicide trials (see table below). Dr. Anjum Munir, CDRI agreed that he will explore their registration status and other regulatory issues with concerned company.

List of proposed fungicides for evaluating their efficacies in controlling wheat rust in Pakistan

<i>Trade name of fungicide</i>	<i>Active ingredient</i>	<i>Company</i>	<i>Recommendations</i>
Tilt	Propiconazole	Syngenta	Leaf, yellow and stem rust
Folicur	Tebuconazole	Bayer Crop Science	Leaf rust, stripe rust, stem rust, septoria nodorum blotch, yellow leaf spot
Absolute 500 SC	Tebuconazole + Trifloxystrobin	Bayer Crop Science	Leaf, yellow and stem rust, powdery mildew, tan spot, septoria blotch and stagonospora blotch
Stratego YLD	Prothiconazole + Trifloxystrobin	Bayer Crop Science	Leaf, yellow and stem rust, powdery mildew, tan spot, septoria blotch and stagonospora blotch

CIMMYT will prepare a detail experimental protocol and circulate with concerned scientists.

4. Thanks Remarks:

National Wheat Coordinator, Dr. Atiq Rattu, delivered the final remarks and appreciated the efforts of provincial partners for the successful rust survey during the last cropping season.

List of Attendees:

Sr. No	Name	Institute
1	Dr. Anjum Munir	CDRI-NARC, Islamabad
2	Dr. Atiq Rattu	National wheat coordinator, NARC, Islamabad
3	Dr. Javed Mirza	CDRI-Murree
4	Mr. Muhammad Fayyaz	CDRI-NARC, Islamabad
5	Mr. Abdul Hafeez	Department of Agriculture, Govt of the Azad State of Jammu & Kashmir, Pakistan.
6	Mr. Faqir Muhammad	Wheat Research Institute, AARI, Faisalabad
7	Mr. Jahangir Khan	Arid Zone Research Center (PARC), Quetta
8	Mr. Khalil Ahmad Khanzada	CDRI-Karachi
9	Mr. Irfan Shah	CCRI-Pirsabak
10	Mr. Shaffi Muhammad	WRI-Sakrand

	Khata	
11	Mr. Akhter Gul	ARI-Quetta
12	Dr. M. Arshad Hussain	RARI-Bahawalpur
13	Dr. Imtiaz Muhammad	CIMMYT, INT. Pakistan
14	Dr. Akhter Ali	CIMMYT, INT. Pakistan
15	Dr. K. D. Joshi	CIMMYT, INT. Pakistan
16	Mr. Yahya Rauf	CIMMYT, INT. Pakistan