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भारतसरकार/ Government of India

कृषि एवं किसान कल्याण मंत्रालय / Ministry of Agriculture & Farmers Welfare
कृषि एवं किसान कल्याण विभाग / Department of Agriculture & Farmers Welfare
वनस्पति संरक्षण, संगरोध एवं संग्रहनिदेशालय / Directorate of Plant Protection, Quarantine & Storage
एनएच4, फरीदाबाद(हरियाणा) – 121 001/ NH-IV, Faridabad (Haryana) – 121 001

Dated: 14.02.2023

To

The Directors of Agriculture,
Punjab, Haryana, Uttar Pradesh, Himachal Pradesh,
Uttarakhand, Jammu & Kashmir, Rajasthan

Sub: Advisory on yellow rust of wheat (*Puccinia striiformis* f.sp. *tritici*) to major wheat growing areas-reg.

Sir,

This is to bring to your notice that the incidence of yellow rust has been reported from Rupnagar and Hoshiarpur districts of Punjab state during regular surveys conducted by CIPMC Jalandhar. Though the intensity of infestation was found trace (0.5- 1%) but keeping in view of the congenial climatic conditions (i.e, warm and humid) for rapid building up of yellow rust inoculums, wheat crop should be monitored regularly for disease build up and adoption of Integrated disease Management techniques.

Yellow rust or Stripe rust is a disease of Wheat caused by a fungal pathogen, *Puccinia striiformis*. The disease appears in the form of yellow stripes on wheat leaves. This disease appears if cold temperature coupled with intermittent rains. The disease mainly attacks in the wheat growing areas of Punjab, Haryana, Jammu and Kashmir and tarai regions of Uttar Pradesh and Uttarakhand.

The first sign of stripe rust is the appearance of yellow streaks (pre-pustules), followed by small, bright yellow, and elongated uredial pustules arranged in conspicuous rows on the leaves, leaf sheaths, glumes and awns.

In order to control this disease from becoming an epidemic the following practices of IPM strategies may be followed for the management of Yellow Rust in wheat crop:

1. Collect and destroy crop debris/infested plants and maintain field sanitation.
2. Farmers should be advised to avoid excess application of nitrogenous fertilizers.
3. Organizing of regular training programme for the extension workers, pesticide dealers and farmers by the SAUs/ICAR Institutes/CIPMCs/KVKs for up- gradation of their knowledge and skill regarding management of yellow rust disease.
4. Mobilization of extension functionaries for regular monitoring of pests status.

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5. Special care must be taken by state functionaries while doing survey for carrying rust infected leaves samples from field to other places because it may act as source of inoculums for other field. If required infected leave sample must be carried in plastic bag/closed container and such sample should be destroyed after analysis. Also precautions should be taken while doing survey that rust spores should not be attached to clothes before moving to other fields.
6. Fungicides must be used as per label claim approved by Registration Committee. Detailed information is available at <https://ppqs.gov.in/divisions/cib-rc/major-uses-of-pesticides>.
7. Leaflet on Rust of wheat is prepared by DPPQS and uploaded on website and this can be downloaded from web-link http://ppqs.gov.in/sites/default/files/wheat_rust-english.pdf.
8. IPM package of practices for Wheat need to be adopted. This may be downloaded from web-link <http://ppqs.gov.in/ipm-packages/cereals> or <http://ppqs.gov.in/sites/default/files/wheat.pdf>

In view of the above, it is advised that wheat growing areas to be monitored on regular basis and if any incidence of yellow rust is reported by the farmers, extension functionaries and even through the newspapers or through any other sources, survey of the affected area may be conducted and the concerned officials at the Division/District/Block may be advised to take the suitable plant protection measures if required. The detailed information may also be sent to this Directorate through e-mail: appa.ipm-ppqs@gov.in urgently to apprise the same to the Department of Agriculture & Farmers Welfare.

Encl: as above

Yours faithfully


(Dr. J.P. Singh)

Plant Protection Adviser

Copy for information:

1. PPS to Joint Secretary (PP), DA & FW, Krishi Bhawan, New Delhi- 110001
2. The Director of Agriculture of other Wheat growing states with the request to keep close watch on pest build up and take appropriate measures as mentioned above.
3. PPS to PPA for information.
4. Officer-in-charges all CIPMCs of Wheat growing states with a direction to conduct regular survey in their areas to ascertain yellow rust incidence level and necessary follow-up with the state authorities.