



UK CEREAL PATHOGEN VIRULENCE SURVEY 2013

The UKCPVS (funded by FERA and HGCA) monitors cereal pathogens in order to detect new races which might overcome the resistance of current and new varieties. The success of the survey depends on people in the field who kindly find the time to send us samples.

This season we are monitoring the following diseases:

Wheat → Yellow Rust
 → Brown Rust
 → Mildew

Barley → Mildew

We would welcome samples of the above diseases from **any** variety, whether it is already known to be susceptible or not. If you see unexpectedly high levels of infection in a variety that is usually resistant, this would of course be particularly interesting, but do please continue to send samples from susceptible varieties as well.

We are keen to receive samples from as many regions of the UK as possible.

On pages 2 and 3 you will find information on how to collect and package samples, and where to send them. Please complete the form on Page 4 and enclose it with any samples you send us.

If you have any queries, please contact one of the members of the UKCPVS team:

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Rosemary Bayles

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The UKCPVS, NIAB, Huntingdon Road, Cambridge, CB3 0LE.

UK CEREAL PATHOGEN VIRULENCE SURVEY

SAMPLING, PACKAGING AND POSTING INSTRUCTIONS

Yellow rust

Samples should consist of about 5-10 infected leaves. It is important that the leaves selected are not too heavily infected – 1 to 5 distinctly separated stripes of yellow rust per leaf are plenty. The stripes should ideally be at least 2 cm in length. The leaves themselves should be predominantly green and the pustules in the stripes should be bright yellow / orange and sporulating actively, i.e not dried up.

Please avoid leaves which are significantly infected with other diseases, such as brown rust, septoria or mildew.

Please send samples before spraying with fungicide if at all possible to ensure the rust is still viable.

Packaging:

Fold each leaf in half lengthwise with upper infected surfaces together. Then wrap the sample in a large succulent leaf, e.g. a dock leaf, or slightly dampened, (not wet) kitchen roll, and seal in a paper envelope. PLEASE DO NOT USE POLYTHENE BAGS.

Complete a form (page 4) for each sample and seal it along with the sample within a second envelope for posting.

Brown rust

Samples should consist of 5-10 leaves. The leaves should not be too heavily infected – a scattering of distinct pustules on a basically green leaf is better than a solid mass of pustules on a senescing leaf. The pustules should be sporulating actively and not appear dried up or discoloured.

Please avoid sending leaves which are significantly infected with other diseases, such as yellow rust, septoria or mildew.

Please send samples before spraying with fungicide if at all possible to ensure the rust is still viable.

Packaging:

Fold each leaf in half lengthwise with upper infected surfaces together. Then wrap the sample in a large succulent leaf, e.g. a dock leaf, or slightly dampened, (not wet) kitchen roll, and seal in a paper envelope. PLEASE DO NOT USE POLYTHENE BAGS.

Complete a form (page 4) for each sample and seal it along with the sample within a second envelope for posting.

Mildew

Samples should consist of 5-10 leaves with obviously live mildew, i.e. young, fluffy sporulating pustules. The chosen leaves should not be too heavily infected – a scattering of distinct pustules on a basically green leaf is better than a solid mass of pustules on a senescing leaf. Fold leaves lengthwise as for the rusts, but wrap in slightly dampened blotting paper and seal in a polythene bag, avoiding excess moisture. It is best not to pack the leaves tightly in the paper.

Complete a form (page 4) for each sample and seal it along with the sample within a second envelope for posting.

POSTING

Post samples on the day they are collected. Post early in the week, if possible, to avoid samples being delayed in transit over the weekend.

ADDRESS

Please send samples to the UKCPVS at NIAB, using the freepost address below:-

UKCPVS
NIAB
FREEPOST CB173
Huntingdon Road
Cambridge
CB3 0BR

UNITED KINGDOM CEREAL PATHOGEN VIRULENCE SURVEY

Please complete and send with each sample for virulence analysis to the UKCPVS laboratory at NIAB.

Crop.....

Disease.....

Sample No FOR OFFICE USE ONLY	Variety	Date	Location (including County) with Postcode if known	Severity of attack* (% leaf area infection)	Crop growth stage	Notes - e.g. fungicide treatment

*If foci present, give assessment for foci and also plot (or field) as a whole

Name:

Tel No:

Address:

Fax:

e-mail: