

EuroWheat.ORG – Support for integrated disease management in wheat

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Abstract

Wheat diseases have a major impact on yield, quality of grain and fungicide requirements. EuroWheat collates data and information on wheat disease management from several countries, analysing and displaying this information in a European context. It provides significant added value on a European scale to support local advisers, breeders and other partners dealing with disease management in wheat through supporting IPM in the broadest sense. Information in EuroWheat include:

Fungicides

Many countries provide information about fungicide efficacy based on national field trials. EuroWheat has collected this information giving an overview of registered products, their efficacy (Fig. 1) and resistance risk:

- Fungicide efficacy ranking – eight wheat diseases ranked by five different countries
- Review on problems related to fungicide resistance

Wheat IPM

Under this heading information and links to relevant disease management tools are given:

- Overview and links to decision support systems dealing with wheat diseases in Europe
- Wheat disease thresholds recommended in eight countries
- Information and thresholds for seed borne diseases
- Overview and documentation of cultural practices reducing specific diseases

Pathogens

Pathogen characteristics such as virulence and aggressiveness play a significant role in evaluating the risks of disease epidemics in cultivars possessing various sources of disease resistance. Since many of the most damaging pathogens, such as the rusts, may be spread by the wind across national borders, updated information about pathogen features in neighboring countries serve as an 'early warning' for farmers:

- Overview and analysis tool for wheat yellow rust virulence pathotypes in Europe (six countries)
- Fusarium head blight: how to minimise attack and mycotoxins
- Cultivar resistance to Fusarium head blight, including ranking of cultivars