Occurrence and harmfulness of more important diseases and pests in winter wheat and oil-seed rape in Poland in 2011

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Abstract

The agrophages economic importance is determined by various environmental factors, namely: intensified farming, simplified agro technology, varieties with different level of disease and pest resistance and the global warming effect within the last few years.

In Poland the harmfulness and occurrence of the agrophages has been monitored from 1950. Such information are the base of the evaluation the tendency of pests and diseases spread as well as their economic value affected among other factors by climate changes. Every year Plant Protection and Seed Health Inspection Service provide detailed field observations in order to get the information about phytosanitary state of agricultural plants. Obtained results from pests/diseases monitoring in connection with observations provide at the Plant Protection Institute at the Department of Pest Methods Forecasting and Plant Protection Economy, are the base of “Phytosanitary state of agricultural plants in Poland with prognosis to the next year” which is issued every year.

Nowadays, in Poland pests and diseases occurred on cereals and oil seed rape with economic meaning and which are observed according to “detailed registration” regulations are: powdery mildew – *Blumeria graminis*, brown rust – *Puccinia recondita*, septoria leaf spot – *Septoria nodorum*, take-all diseases - *Pseudocercosporella herpotrichoides* and *Gaeumannomyces graminis* (on winter wheat) and fusarium diseases on winter wheat ears and mays; dry-rot of cabbage–*Phoma lingam*, rape blossom beetle - *Meligethes aeneus*, cabbage stem-weevil - *Ceutorhynchus quadridens*, stem-mining weevil - *Ceutorhynchus napi*, rape-seed weevil - *Ceutorhynchus assimilis*, brassica pod midge - *Dasyneura brassicae* (on oil - seed rape).

Key words: agrophages monitoring, diseases, pests, winter wheat, oil-seed rape

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