



Efficacy

Overview

Efficacy trials establish the label guidance for the use of plant protection products (PPP) or active substances. These label requirements can vary with location and climate. Ireland has a temperate wet climate in which fungal diseases thrive. Accordingly, for products to be placed on the market in IE, data packages must include Irish based trials on wet weather fungal diseases. These need to be conducted in high disease pressure situations – typically > **20% disease infection in the untreated control**. Trials where the level of disease infection is less than 20% will be considered as providing background information only and will not be considered for evaluation.

The below summarises the various crop and pathogen combinations requiring specific Irish trials data

1. Wheat

Crop	Pathogen	Comment
Wheat	<i>Septoria tritici</i> (SEPTTR) (Septoria leaf blotch)	Must be supported by a minimum of four effectiveness trials, conducted over at least two years <u>in high disease pressure situations in IE.</u>
	<i>Fusarium</i> spp. (FUSASP) (Ear blight)	Fusarium ear blight disease and seed treatments for the control of <i>Fusarium</i> spp., <i>Microdochium nivale</i> , and <i>Microdochium majus</i> , must be supported by at least two acceptable effectiveness trials conducted over at least 2 years <u>in high disease pressure situations in IE.</u>
	<i>Microdochium nivale</i> (MONGNI)	
	<i>Microdochium majus</i> (MICDMA)	



2. Barley

Crop	Pathogen	Comment
Barley	<i>Rhynchosporium secalis</i> (RHYNSE)	Must be supported by a minimum of four effectiveness trials, conducted over at least two years <u>in high disease pressure situations in IE.</u>
	* <i>Blumeria graminis</i> (ERYSRG) (Powdery mildew)	
	<i>Ramularia collo-cygni</i> (RAMUCC)	Must be supported by a minimum of four effectiveness trials, conducted over at least two years <u>in high disease pressure situations.</u> Two of the four required trials could come from high <i>Ramularia</i> disease sites elsewhere in the EPPO Maritime zone, with the remainder of the trials conducted in IE.
	<i>Pyrenophora teres</i> (PYRNTE) (Net blotch)	Must be supported by a minimum of four effectiveness trials, conducted over at least two years <u>in high disease pressure situations.</u> The four trials can be from high disease pressure sites in IE and/or elsewhere in the EPPO Maritime zone.
	Pyrenophora spp (PYRNSP)	Must be supported by at least two acceptable effectiveness trials conducted over at least 2 years <u>in high disease pressure situations</u> in IE.
	<i>Fusarium</i> spp. (FUSASP) (Ear blight)	Fusarium ear blight disease and seed treatments for the control of <i>Fusarium</i> spp., <i>Microdochium nivale</i> , and <i>Microdochium majus</i> , must be supported by at least two acceptable effectiveness trials conducted over at least 2 years <u>in high disease pressure situations in IE.</u>
	<i>Microdochium nivale</i> (MONGNI)	
	<i>Microdochium majus</i> (MICDMA)	

3. Oats

Crop	Pathogen	Comment
*Oats	<i>Blumeria graminis</i> (ERYSRG) (Powdery mildew)	Must be supported by a minimum of four effectiveness trials, conducted over at least 2 years <u>in high disease pressure situations in IE.</u>
	<i>Puccinia coronata</i> (PUCCCA) (Crown rust)	Must be supported by a minimum of four effectiveness trials, conducted over at least 2 years <u>in high disease pressure situations in IE.</u>



4. Potato

Crop	Pathogen	Comment
Potato	<i>Phytophthora infestans</i> (PHYTIN) (Late blight)	Must be supported by a minimum of four effectiveness trials, conducted over at least 2 years in <u>high disease pressure situations</u> . It is acceptable that two of the four required trials could come from potato growing areas with similar climatic conditions to IE, e.g., the West of Scotland or Northern Ireland, with the remainder of the trials conducted in IE.
	* <i>Alternaria solani</i> (ALTESO) (Early blight)	

5. Beans

Crop	Pathogen	Comment
*Beans	<i>Botrytis fabae</i> (BOTRFA) (Chocolate spot)	Must be supported by a minimum of two effectiveness trials, conducted over at least 2 years <u>in high disease pressure situations in IE.</u>

6. OSR

Crop	Pathogen	Comment
*OSR	<i>Pyrenopeziza brassicae</i> (PYRPBR) (Light leaf spot)	Must be supported by a minimum of two effectiveness trials, conducted over at least 2 years <u>in high disease pressure situations in IE.</u>

7. Amenity Turf

Crop	Pathogen	Comment
Amenity Turf	<i>Microdochium nivale</i> (MONGNI)	Must be supported by a minimum of two effectiveness trials, conducted over at least 2 years <u>in high disease pressure situations in IE.</u>

*These requirements will not come into effect until 01 January 2024

These effectiveness trials can form part of the fully supportive results specified as per EPPO standard PP 1/226(3) Number of Efficacy trials.

Any queries should be addressed to prd_trials@agriculture.gov.ie