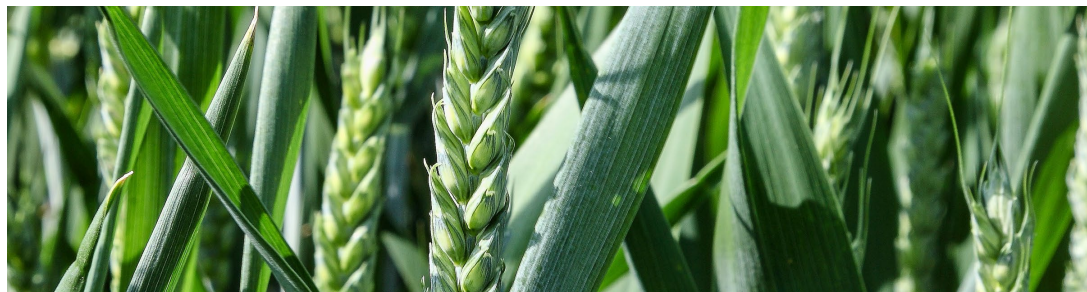


# Nufarm Technical Update



## ORIOUS P: Delivering comprehensive ear disease protection with foliar rust top-up at T3

ORIOUS P at T3 provides outstanding efficacy against *Fusarium graminearum*, *Fusarium culmorum* and *Microdochium spp*, as well as foliar disease top ups to ensure yield and grain quality through to harvest.

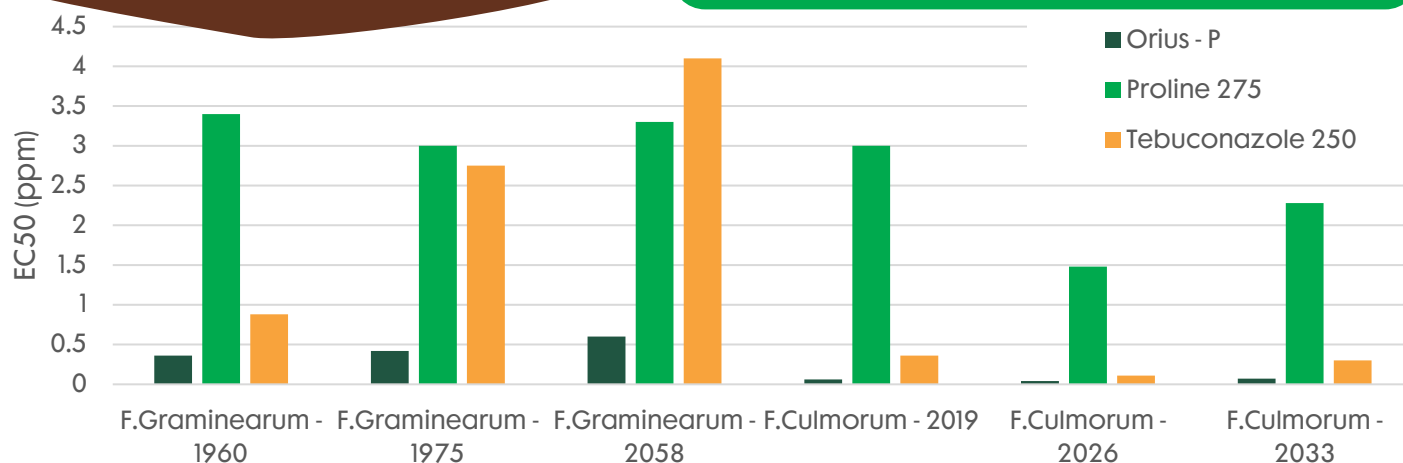
Control of fusarium species will maintain grain quality and **reduce risk of exceeding DON and ZON** (deoxynivalenol and zearalenone) levels at mills/ports.

**ORIOUS P** shows good activity on common wheat ear diseases *Fusarium spp.* and *Microdochium spp.*

(in-vitro amended agar tests)

**Nufarm's Agronomy Solution** for reduction of the ear disease complex and foliar rust top-up:

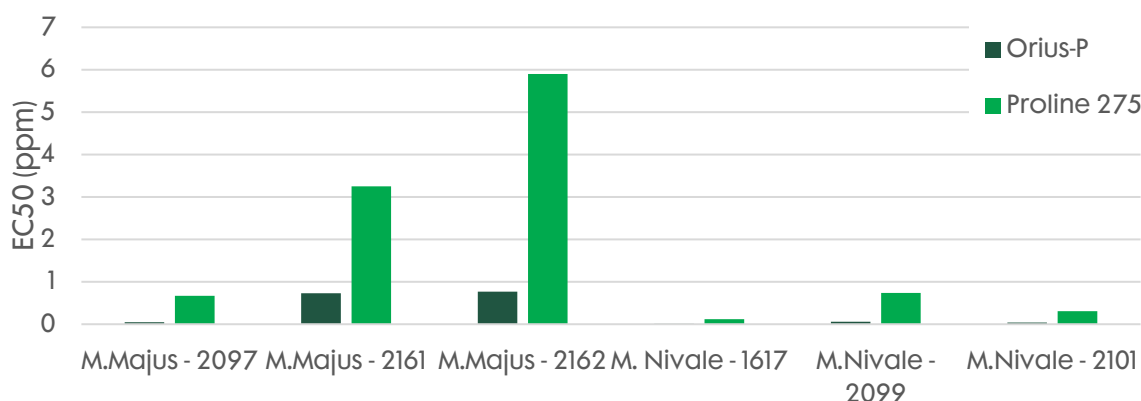
**ORIOUS P 1.0-1.5 l/ha**



**EC<sub>50</sub>**

The concentration that inhibited pathogen growth by 50%.

**The lower the number, the more effective the product!**



Control of fusarium comes from **protectant treatments, ideally applied before rain falls on wheat crops at early-mid flowering** (BBCH 61-65).

**NB: Orius P total dose 1.5 l/ha**

ORIOUS P also delivers excellent late-season yellow and brown rust control.

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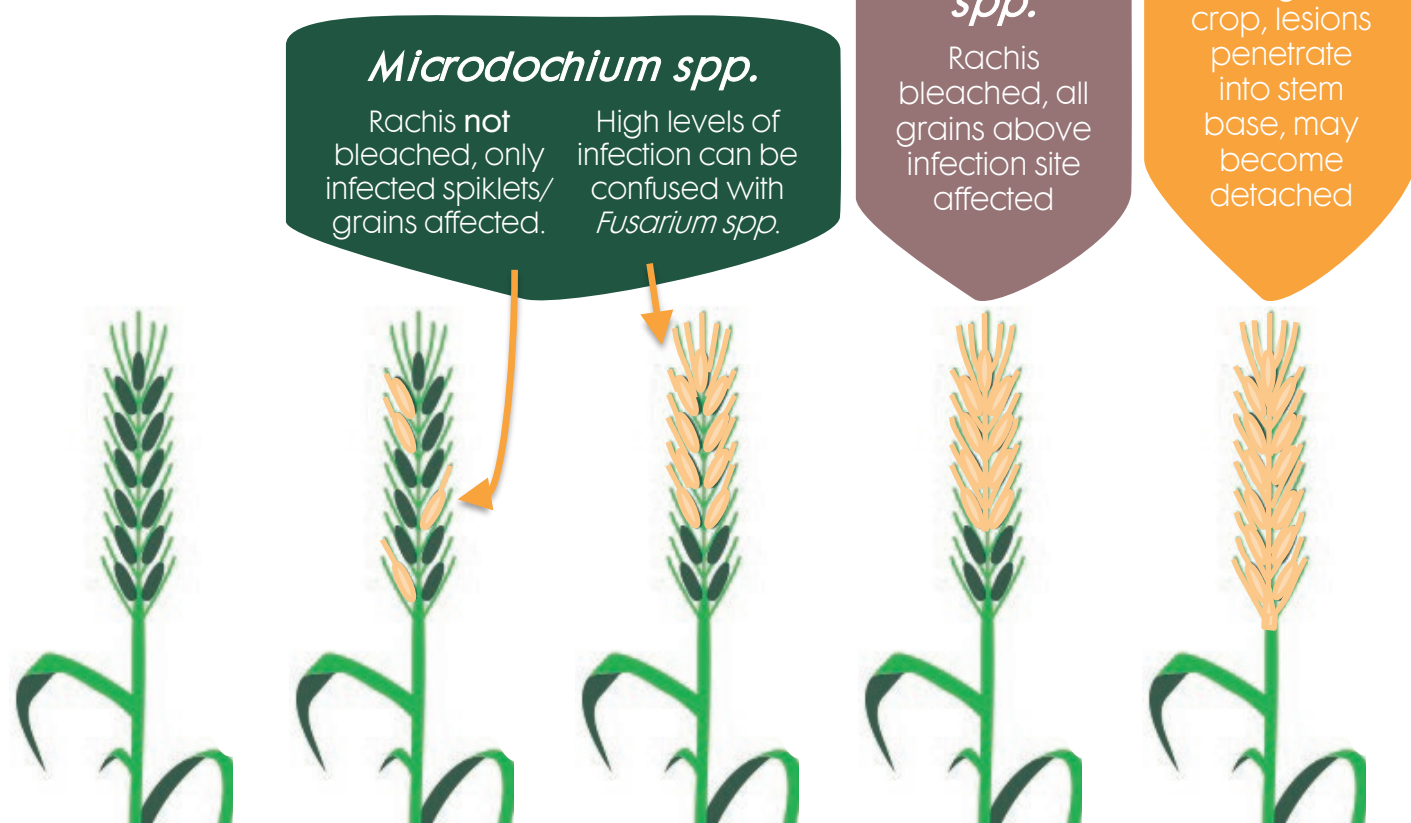


## Ear disease ID parade – what are the concerns?

*F. culmorum* is spread by rain splash while *F. graminearum* is spread through wind dispersal. Favours wet and humid conditions, 18-20°C. Mycotoxin producers (DON and ZON). *Fusarium spp.* infections show as bleached ears with shrivelled grains white or pinkish in colour. Rachis also bleached where infection has advanced and all grains above infection site will be affected.

*Microdochium nivale* and *Microdochium majus* are spread by wind dispersal. Can develop in cooler conditions than *Fusarium spp.*, from c.15°C, but does not produce mycotoxins.

- Low level infection = odd grains affected per ear.
- Higher level infection can be confused with *Fusarium spp.*



### FURTHER INFORMATION

Orius P contains tebuconazole and prochloraz.  
Proline 275 contains prothioconazole.

Orius is a trademark of Nufarm.  
Proline is a trademark of Bayer.

Nufarm Technical updates are eligible for 1 BASIS CPT/year Ref: CP/12011/2223/g Email claim to [linda@basis-reg.co.uk](mailto:linda@basis-reg.co.uk)

Details of application rates and timings are given in Nufarm labels and product literature; both of which can be accessed from our website [www.nufarm.com/uk](http://www.nufarm.com/uk). Alternatively, ring the Nufarm helpline on 01274 694714, Monday to Friday 9.00 - 17.00

Use plant protection products safely. Always read the label and product information before use. For label and safety information, refer to the Nufarm website [www.nufarm.com/uk](http://www.nufarm.com/uk). Nufarm UK Ltd, Wyke Lane, Wyke, Bradford, BD12 9EJ.