Challenges and prospects/solutions for cereal disease control

Bill Clark
NIAB Cambridge
• Fewer active ingredients;
• Tighter regulatory controls;
• More actives at risk;
• Growing fungicide resistance in pathogens.

Managing uncertainty
2016 – Plenty of uncertainty
Yellow rust
Tan Spot
UK wheat yields 1953-2016

Yield t/ha

Year:

Yield t/ha:
0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0
Rod Smith was determined that his world record wheat yield would be grown using a commercial on-farm regime and not by simply piling on the inputs. His harvested wheat crop of 16.52t/ha was a world beater, but his treatment of this crop largely mirrored other wheats on his deep fertile soils along the north Northumberland coast. He says the bumper crop was due to a number of factors all coming together – near ideal weather, low disease levels and a […]

16.52 t/ha
Average response 3.86 t/ha

6.8 t/ha
• Superwheat: Transferring innovations in plant science into practical agriculture.
Fungicides are like buses....
Summary

- Many triazoles will go
- Remaining ones and new ones under pressure
- SDHIs under pressure
- New a.i.s – Yes. Dow Inatreq
- Multisites under pressure
- Varieties getting much better
- Variety interaction more important
- Yields will be under pressure – wheat price rises?