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# Welcome to our virtual meeting



## Cereal Disease Management Virtual Meeting 2020

This webinar will be recorded via Zoom and the recording will be emailed out to attendees and published on our website after the event.

# Today's speakers



Dave Ranner  
Cereal Fungicide Marketing Manager



Iain Hamilton  
Senior Field Technical Manager

# Housekeeping

- Please send questions via the Q&A function – they will be answered at the end
- 2 BASIS points available
- We will send an email after the event which will include the recording, slides and a form to fill out your BASIS details and give feedback.
- Sit back, relax, and enjoy!



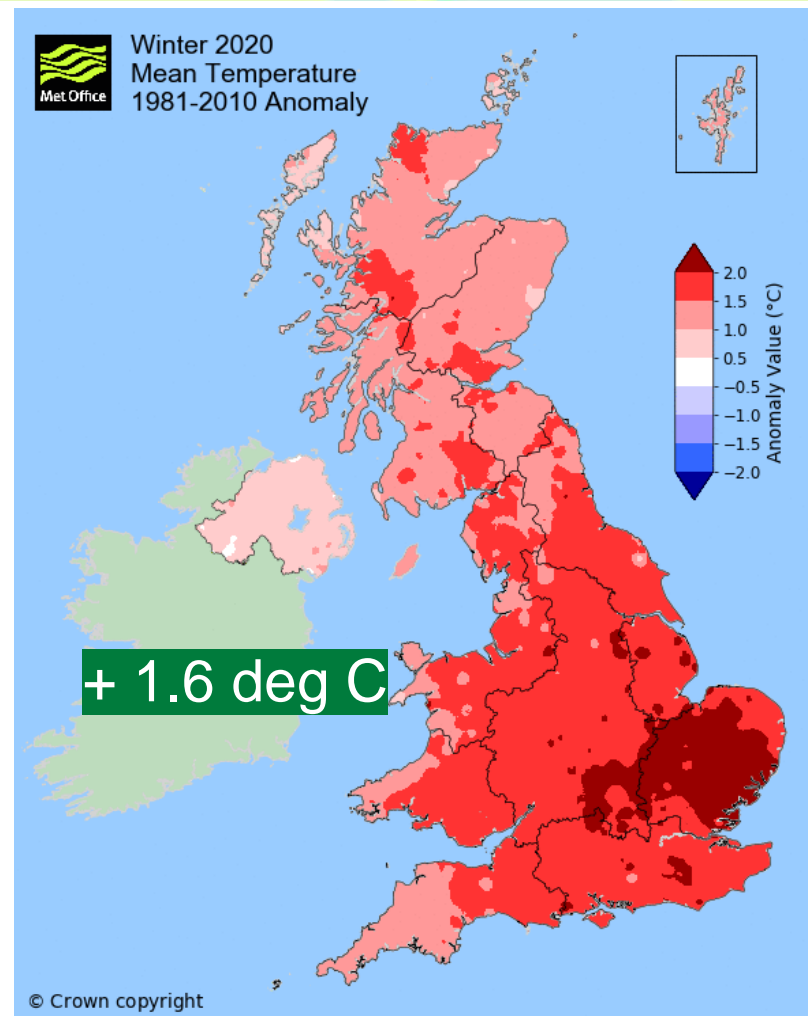
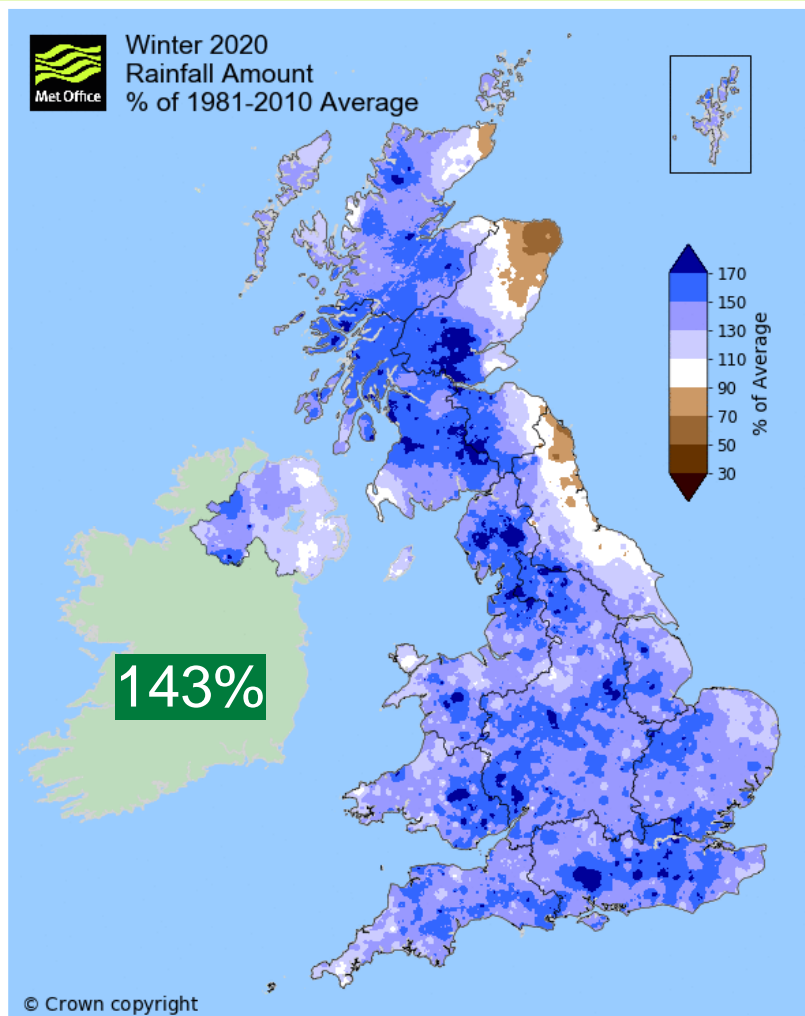
# Agenda for the session

- Season review – impact of weather (and LOCATION)
- Winter Wheat.
- Issues and opportunities:
  - Loss of chlorothalonil and epoxiconazole – impact and alternatives
  - New product introduction(s)
- Winter barley
- Oats

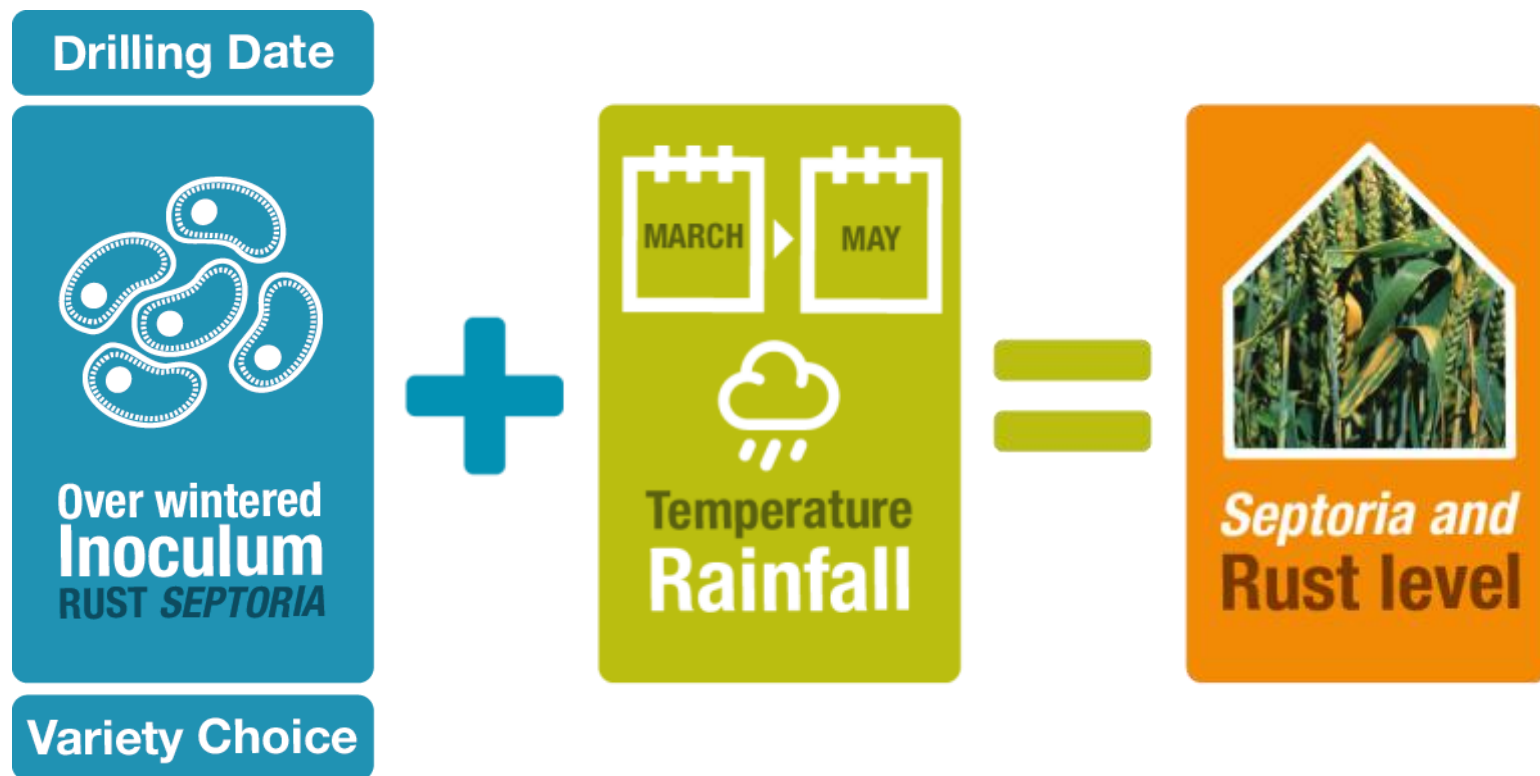
# The season so far.....

- “Difficult” (!) Autumn....
- WET, WET, WET.....AND MILD, MILD, MILD...
- For crops which DID get established → Plenty overwintered inoculum
  - Septoria, Yellow rust
- Early spring = DRY (“average” in places...) resulting in some early drought symptoms
- IDEAL for yellow rust development
- Septoria more variable depending on rainfall
- Temperature “spikes” in May/June
- June rain events (again!) ....late Septoria burst?

# Winter 2019-20: WET and MILD (Dec/Jan/Feb)

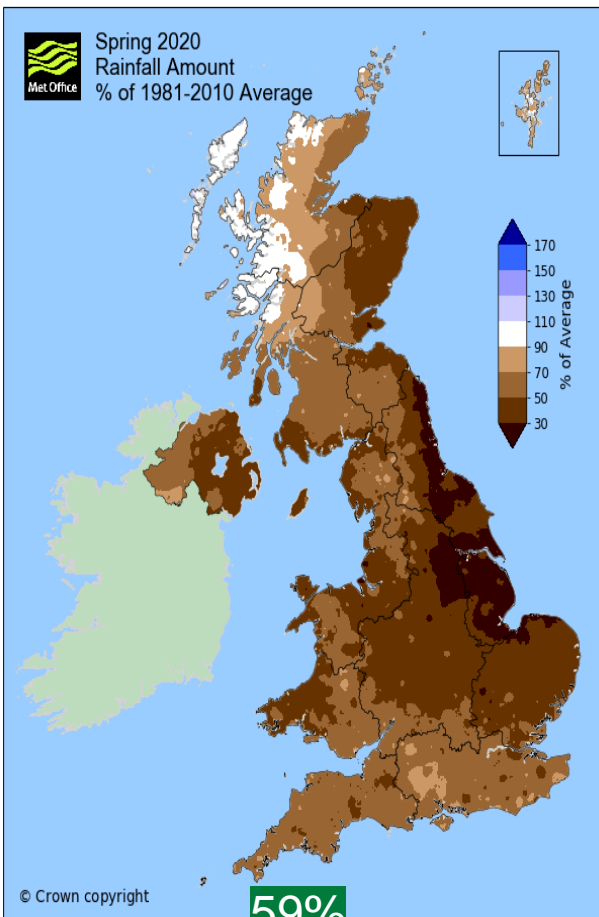


# Weather pattern over winter and in April and May drives disease epidemic

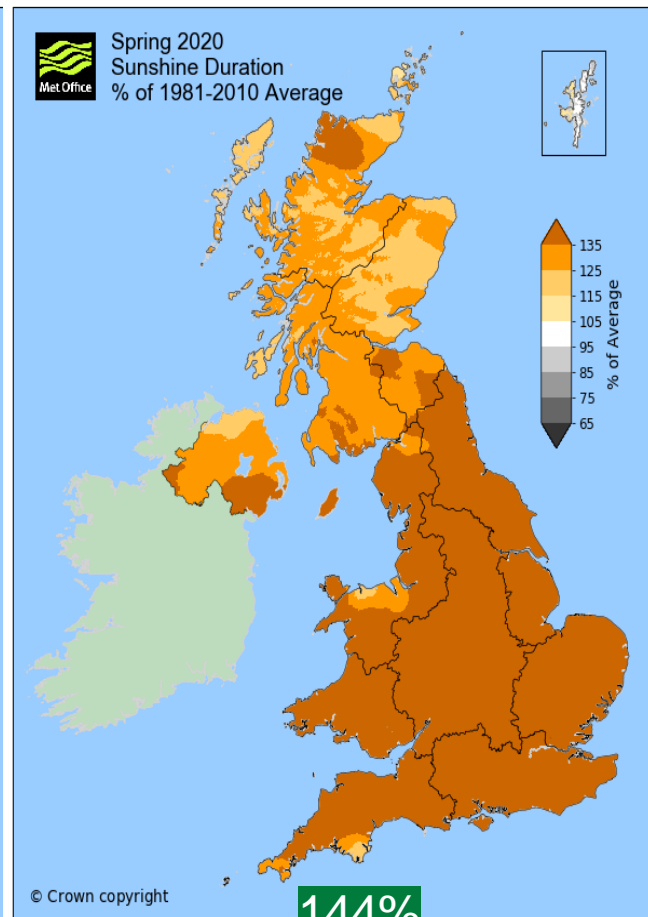
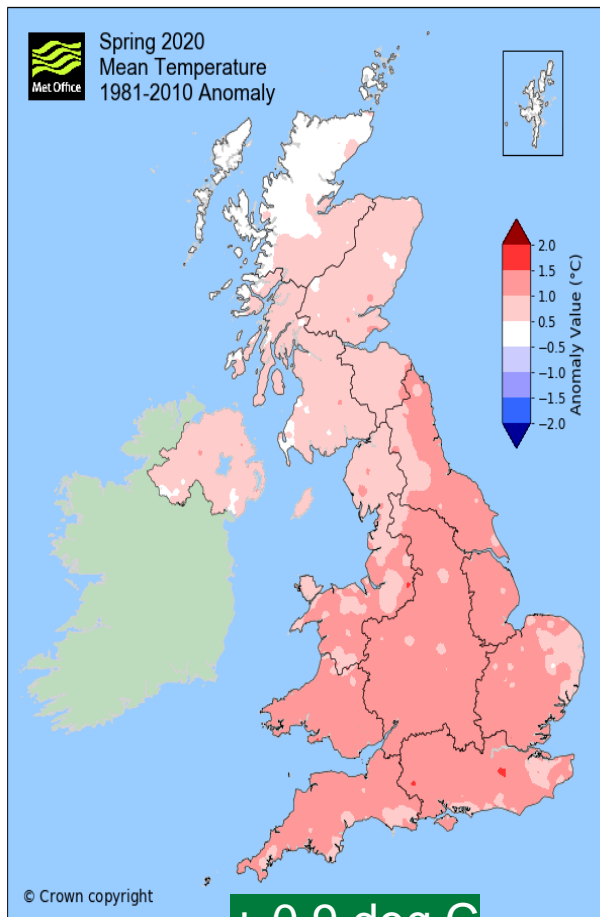




# SPRING (MARCH-MAY): DRY, Warm and SUNNY

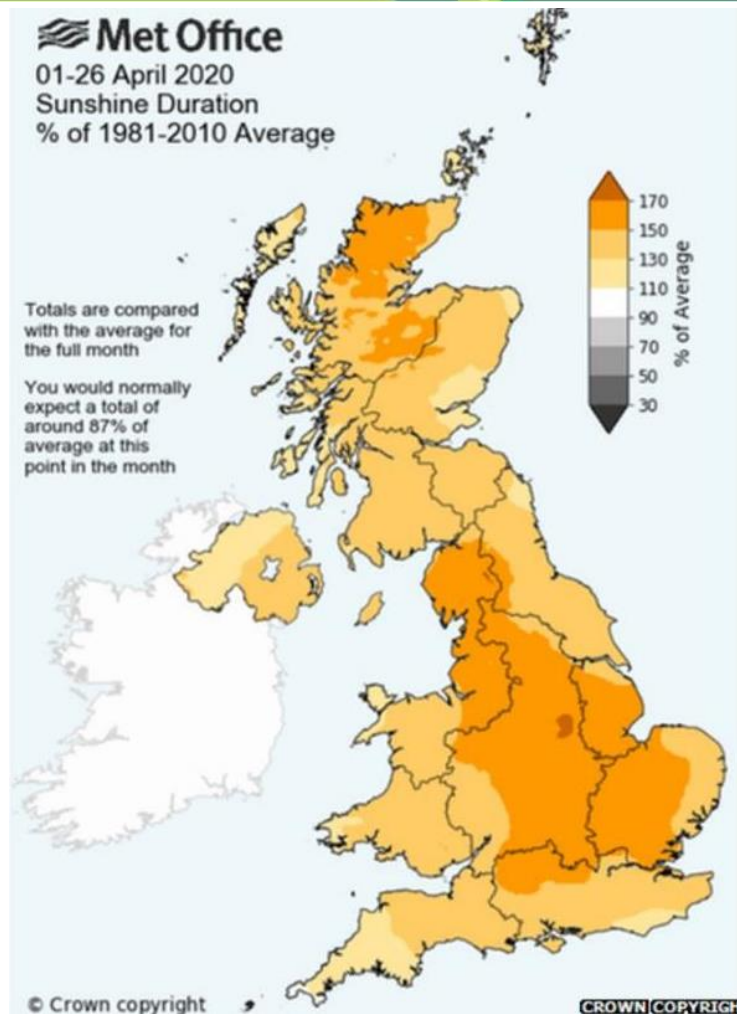
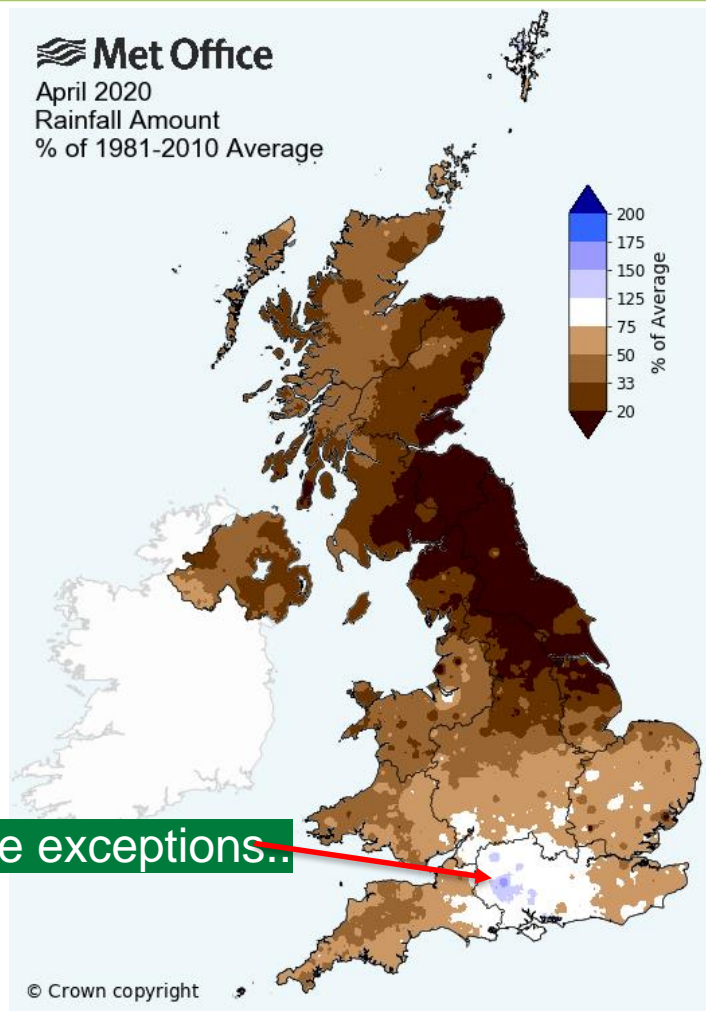


“driest May on record..”



“sunniest Spring on record”

# April: DRY and SUNNY... ...but rain for SOME....



# The season so far.....#2

- Ideal for **Yellow Rust** development
- Septoria more variable depending on rainfall
- Temperature “spikes” in May/June
- June rain events (again!) ... June weather info
  - late Septoria burst?
  - Ear disease?
  - Brown rust



# March-April: Yellow Rust everywhere.....



Yorks: LG Skyscraper



Stamford: Dunston



Barton: Mulika SW



Glos.: Skyfall



Hereford: RGT Gravity



Beeswax: KWS Kerrin



Dorset: KWS Kinetic



....but controlled by a ROBUST T1...



RGT Gravity  
T1 ELATUS Era 0.7 + MIRROR (folpet) 1.0  
Yellow rust dried up...

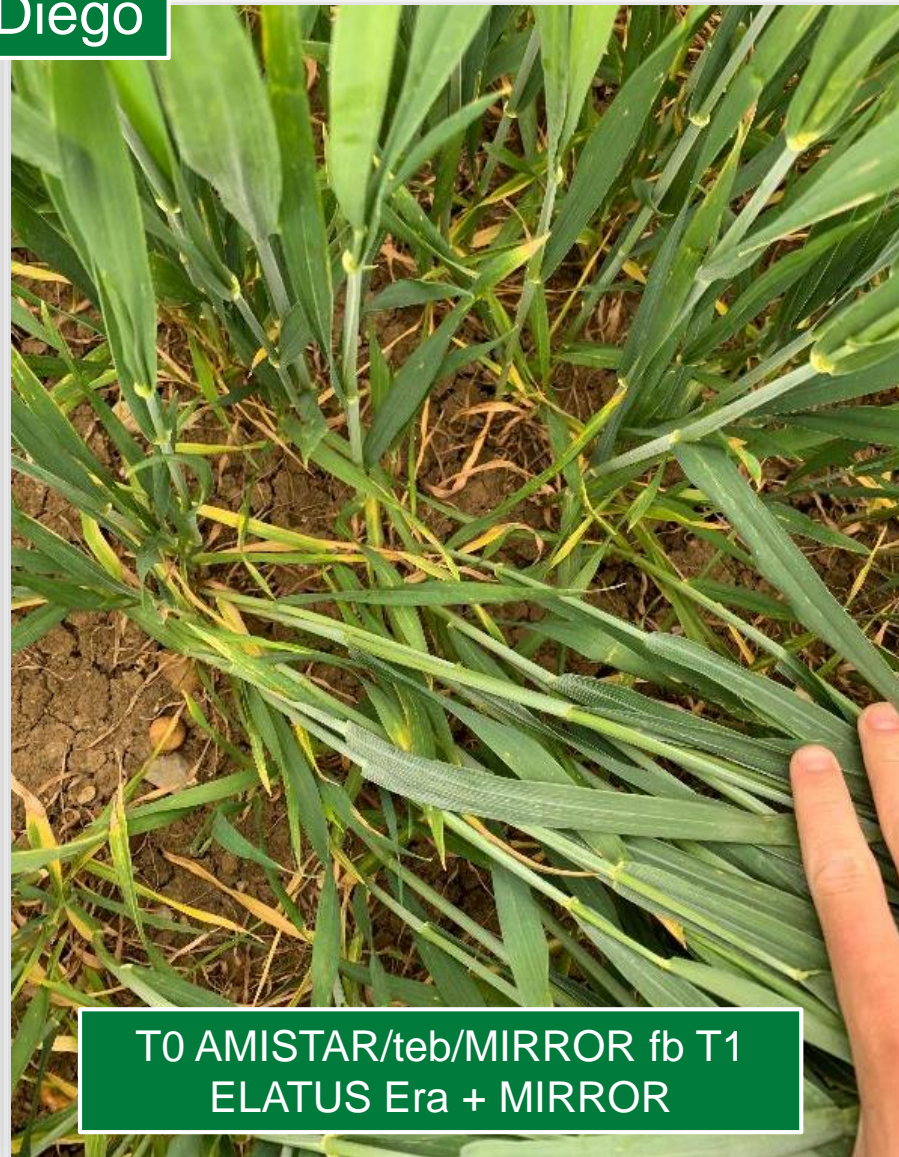


....but controlled by a ROBUST T1...

JB Diego



T0 MIRROR (folpet) fb T1 PTZ +  
MIRROR



T0 AMISTAR/teb/MIRROR fb T1  
ELATUS Era + MIRROR



# Yellow rust product comparison

- Luton  
22<sup>nd</sup> June  
Variety Dunston
- No T0 resulting in significant pressure by  
T1 = curative trial
- Treatments T1/T2  
repeats at half rates



Untreated



# Yellow rust product comparison



Half rate fluoxapyroxad (1.0 l/ha)



Full rate fluoxapyroxad (2.0 l/ha)



# Yellow rust product comparison



Half rate PTZ (0.36 l/ha)



Full rate PTZ (0.72 l/ha)



# Yellow rust product comparison



Half rate ELATUS Plus (0.38 l/ha)



Full rate ELATUS Plus (0.75 l/ha)



# Yellow rust product comparison



Half rate FXD/MTFZ (0.75 l/ha)



Full rate FXD/MTFZ (1.5 l/ha)



# Yellow rust product comparison



Half rate FLU/BIX/PTZ (0.75 l/ha)



Full rate FLU/BIX/PTZ (1.5 l/ha)



# Yellow rust product comparison



Half rate  **Elatus™ Era**



Full rate  **Elatus™ Era**

# Yellow rust product comparison conclusions

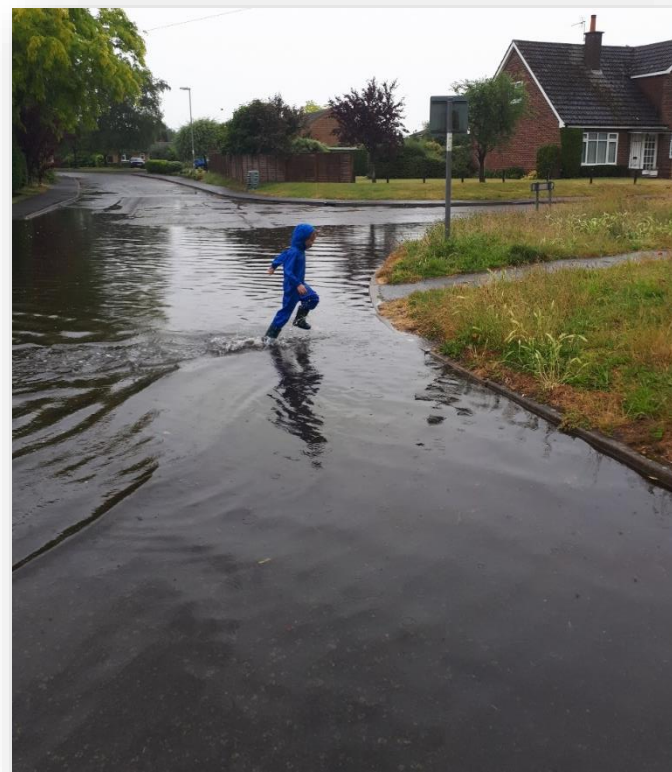
- Don't grow susceptible varieties without a T0
- ELATUS Plus is a very strong active, better than other SDHIs and prothioconazole even when curative
- ELATUS Era is the best SDHI co-form, more effective than FXD/MTFZ and FLU/BIX/PTZ at full dose and with much more dose flexibility
- FLU/BIX/PTZ, FXD/MTFZ and FXD show steep dose responses and were all weaker at half rates.



# Late rain 2 years running....



Lincolnshire first day of Cereals 2019



Cambridgeshire first day of Cereals 2020

# Benefit of T1 fungicide on Septoria: Shropshire 2020



UNTREATED:

Septoria 10% on L3 and odd lesion up on L2

T1 Elatus Era 0.6L + Folpet 1.5L

L3 and L2 clean

**Shropshire Septoria trial cv KWS Barrel (22/6/20)**



# Weston Park Rainfall + Temp April-June 2019

Rainfall  
142.5mm

Temperature  
11.4°C  $\Delta$  23.9  
 $\nabla$  0.1

Today

7 days

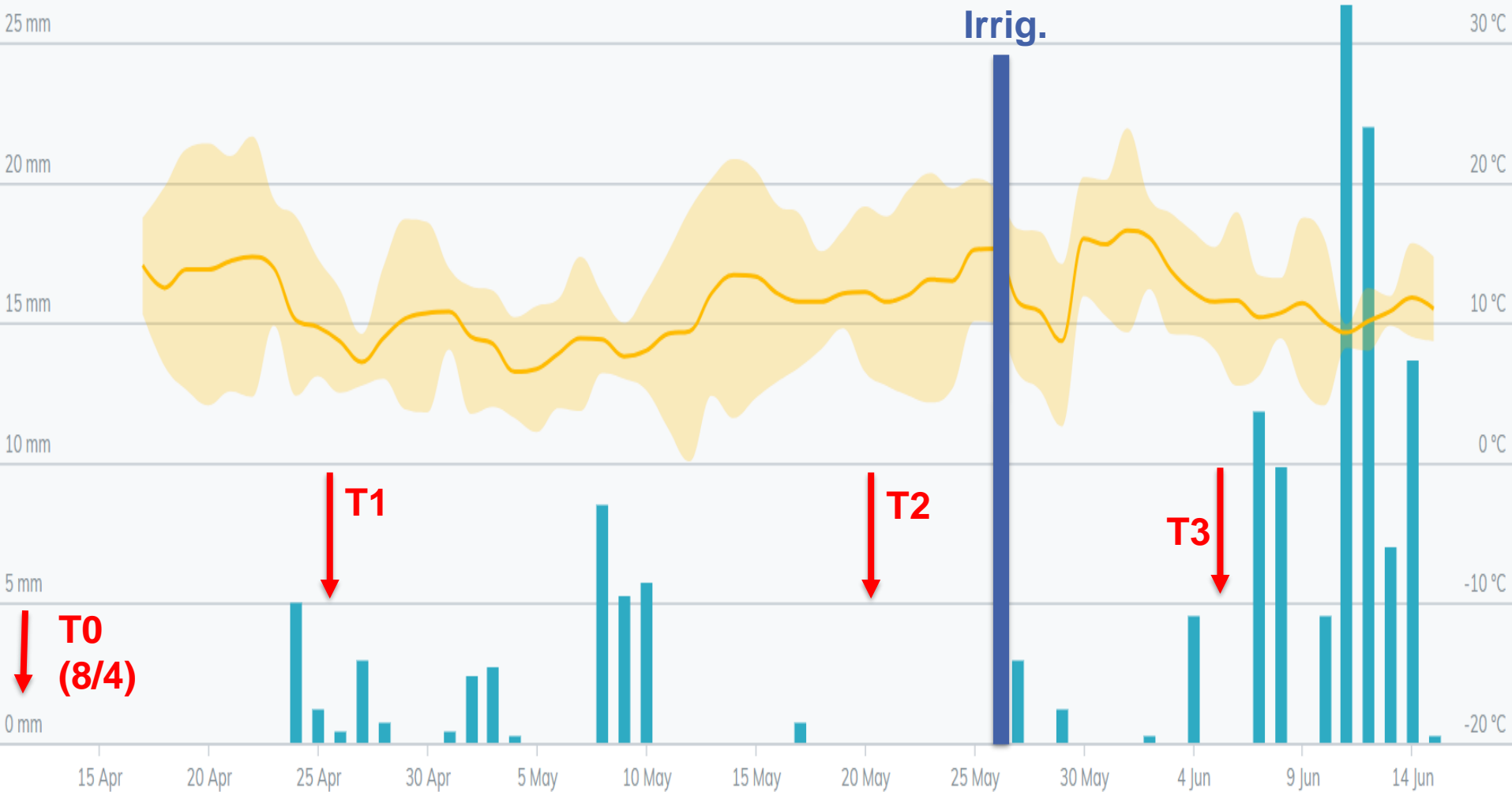
14 days

30 days

 Custom

hour

day





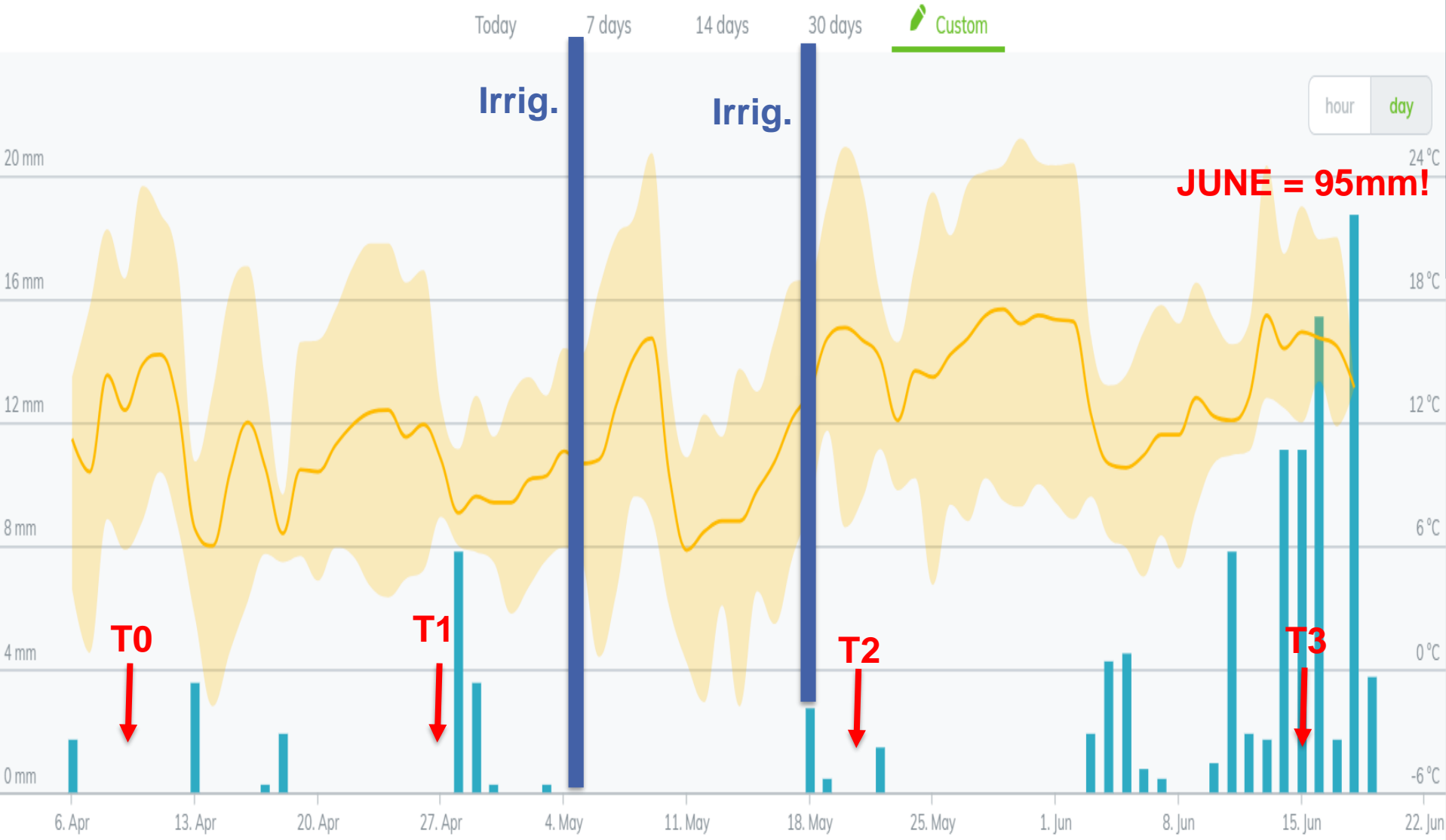
# Weston Park Rainfall + Temp April-June 2020

From 6 April to 19 June

Rainfall  
111.5mm

Temperature  
12.1°C ▲ 25.8  
▼ -1.8

**APRIL + MAY = 24 mm  
+ 50 mm irrigation**



# Benefit of T1 fungicide on Septoria: Shropshire 2020



UNTREATED:

Septoria 10% on L3 and odd lesion up on L2

T1 Elatus Era 0.6L + Folpet 1.5L

L3 and L2 clean

**Shropshire Septoria trial cv KWS Barrel (22/6/20)**



# What happens next....



Lincolnshire 29<sup>th</sup> June 2019



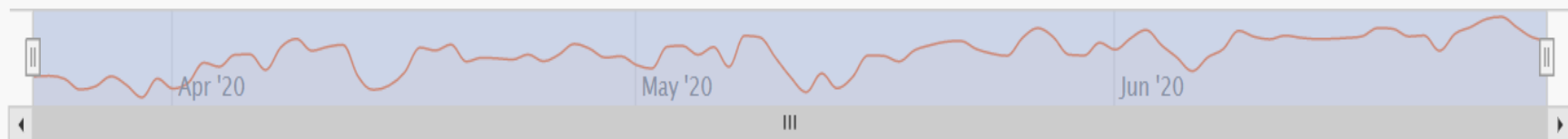
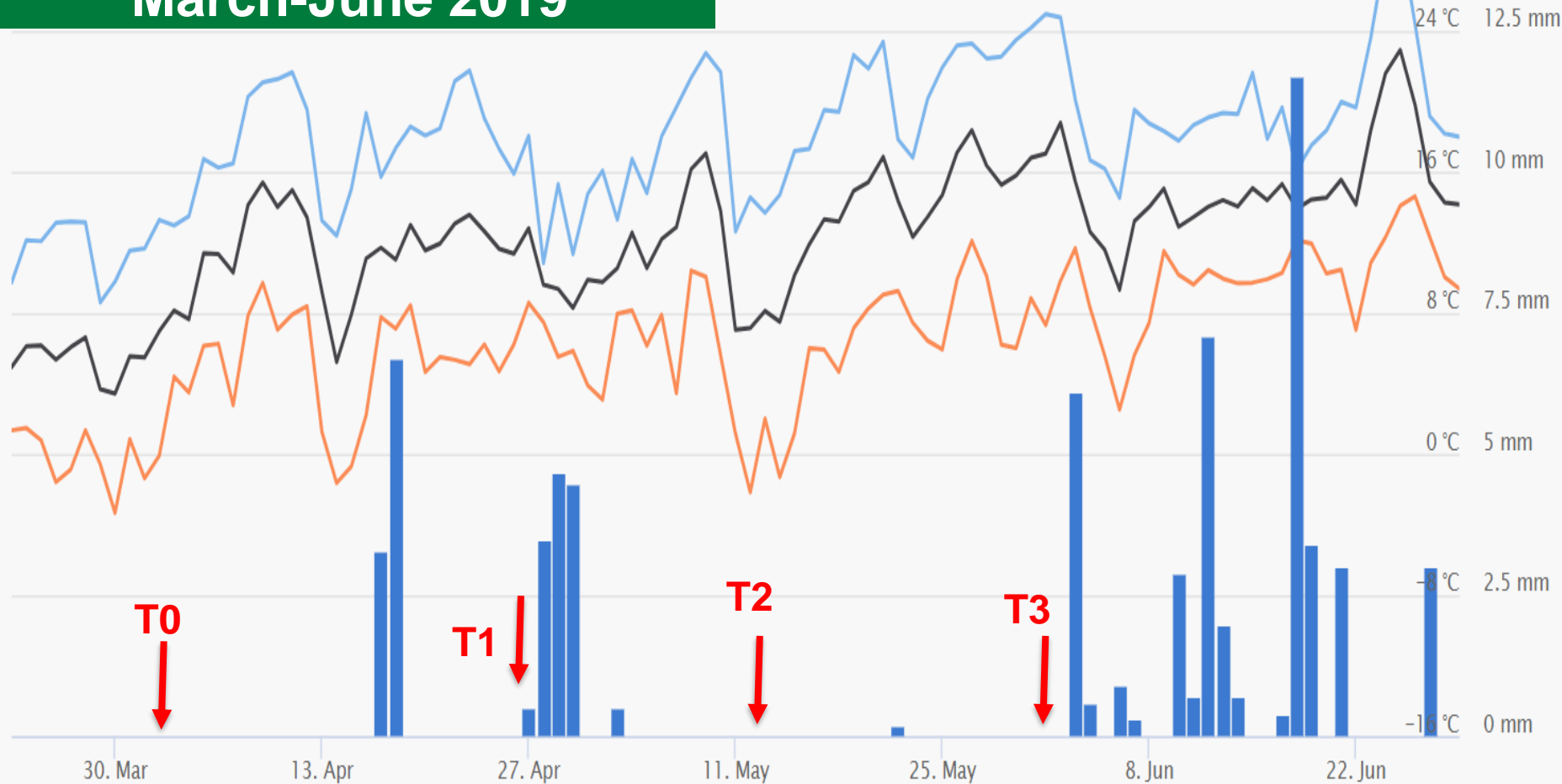
Lincolnshire 16th July 2019



Dorset 22nd June 2020



# Dorset: Rainfall + Temp March-June 2019



— Temperature [2 m elevation corrected] min    
 — Temperature [2 m elevation corrected] max    
 — Temperature [2 m elevation corrected] mean  
● Precipitation Total sum



# What happens next....

## Dorset 26<sup>th</sup> June cv KWS Kerrin



**UNTREATED**  
**Septoria on L2 and starting on L1**



# Full 4-spray (AHDB) programme





# Lower input programme



**T0 – nil; T1 triazole; T2 SDHI+triazole; T3 Untreated**  
**More disease on L3+L4**



# Lowest input: Multi-site only



**Folpet 1.0 T0 + T1 +T2  
MORE SEPTORIA**



# Early stress symptoms reduced by fungicides

## Leaf roll 1<sup>st</sup> June Newark IC



Untreated @ T2



 **Elatus™ Era** @ T2

# Early stress symptoms reduced by fungicides

## Leaf roll 1<sup>st</sup> June Newark IC



FLU/BIX/PTZ @ T2



 **Elatus™ Era** @ T2



# Depending on the weather we may not get all the answers....

- What to do about chlorothalonil loss and resistance management?
- What to do about yellow rust and epoxiconazole loss?

# Winter barley disease management

## Key issues

- Some disease coming into spring:
  - Net blotch
  - Rhyncho
  - Brown rust
- Spring dry weather reduced disease spread significantly
- “Leaf spotting” ....ramularia etc



# North Wilts 30th June: KWS Tower



UNTREATED

BROWN RUST established

Net Blotch & PLS lower down





# North Wilts 30th June: KWS Tower

TREATED: T1 + T2 triazole + strobe low rate





# North Wilts 30th June: KWS Tower

TREATED: T1 + T2 triazole + strobe High rate





# Potential new option for oats in 2021



Devon 24<sup>th</sup> June, Crown rust  
Untreated, Variety Gerald  
No T1, T2 applied when low rust  
levels present



 **Elatus™ Era** @ T2

N.B. not yet registered in oats



# Cereal fungicide summary 1

- Another **DIFFERENT** season!
- Big impact from weather (again!)
  - Early droughting
  - High YR pressure – Early fungicides critical (T0/T1) and **not all fungicides are the same!**
- Late season disease development in WW impact of June rain?
  - Was cutting back the right decision?
  - Where to use new chemistry?
  - **YIELD** data to follow
    - **What will it show...?**

# Cereal fungicide summary 2

- What should we do about chlorothalonil?
  - Best use of folpet – timing and rate TBC but T1 and **dose critical** (2019 trials)
- What should we do about epoxiconazole?
  - Tebuconazole, ELATUS Era, strobs all have a place – Good **timing becomes more critical** as less curativity
- Barley disease control relatively easy, many ways to skin a cat
  - Based on prothioconazole plus partner e.g. ELATUS Era
- ELATUS Era could be a good new addition to the oat disease control armoury (registration permitting).



# Thanks and Q&A

- Slides, video and a BASIS form will be circulated to attendees
- Thanks for attending hopefully you found it interesting
- Any questions?





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Syngenta UK Ltd Registered in England No. 849037.  
CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE

Tel: 01223 883400 Fax: 01223 882195

Technical enquiries: 0800 169 6058

E-mail: [customer.services@syngenta.com](mailto:customer.services@syngenta.com)

Website: [www.syngenta.co.uk](http://www.syngenta.co.uk)

Statements are believed to be true as at June 2020