



# ECHIQUIER

– a new biofungicide for use against  
Fusarium Ear Blight in cereals –

Richard Milling, ABIM 22 October 2019

# What is ECHIQUIER®?

- ❑ 850 g/kg potassium bicarbonate SG (water soluble granule)
  - ❑ No classification
  - ❑ Reg. no. (FRANCE): 2190265
  - ❑ Use: Fusarium Ear Blight on wheat, spelt and triticale
- |                         |  |
|-------------------------|--|
| ❑ Maximum use rate:     | 5 kg/ha  |
| ❑ No. applications:     | 2/year, min. 7 days interval                         |
| ❑ Stage of application: | BBCH 61 (start of flowering) and BBCH 77 (late milk) |
- ❑ Aquatic buffer zone: 5 metres


# ECHIQUIER® Technical Positioning

- Positioning trials, France 2019
- Impact of application timing during flowering
- ECHIQUIER applied at 1 kg/ha, 200 l water/ha
- Artificial inoculation at BBCH 61

*Fusarium culmorum* →

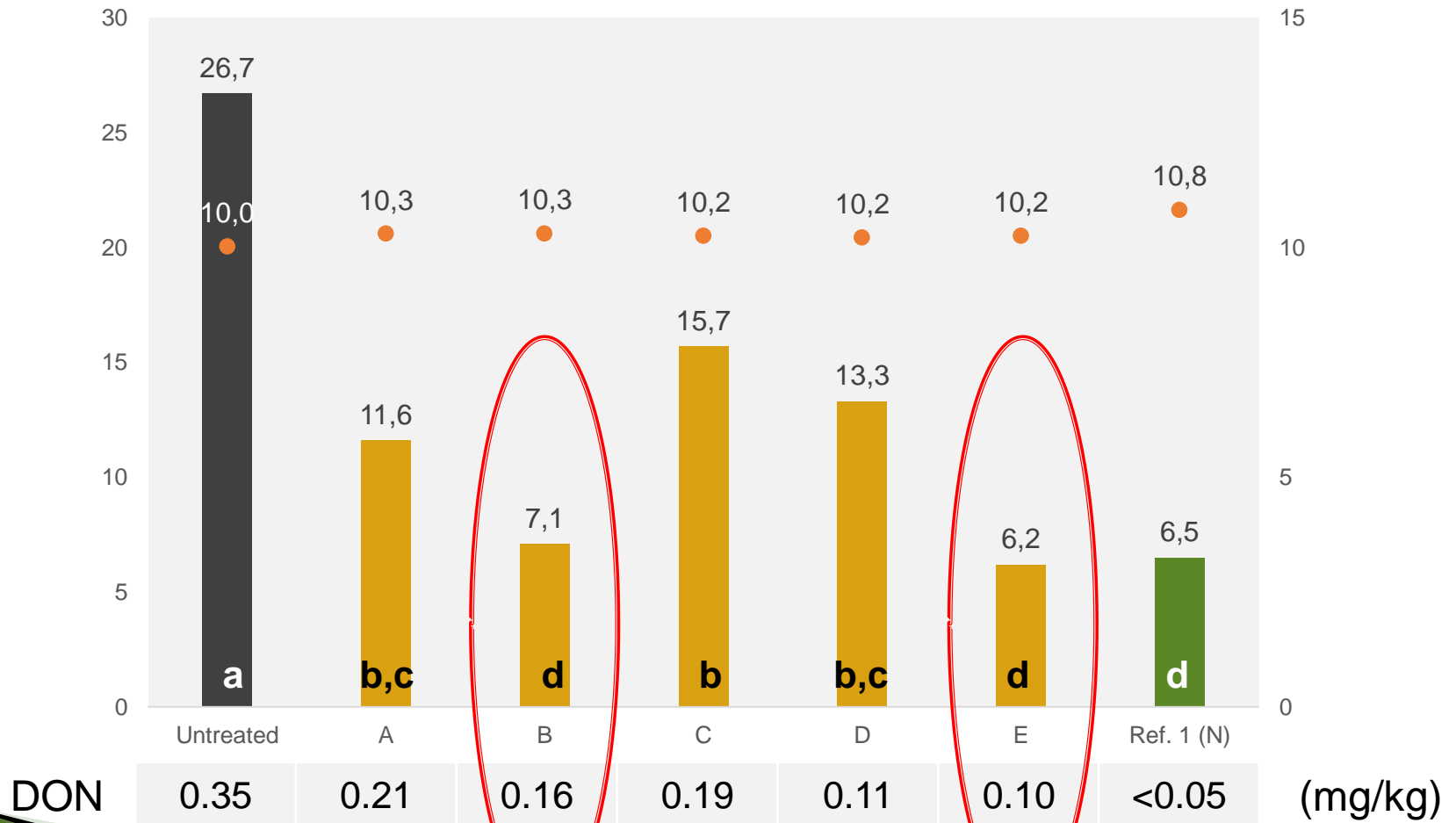
Marne			
Trt.	Date	Crop Stage	Rain
A	27 May	BBCH 61	0.8 mm
	28 May		1.2 mm
B	29 May	BBCH 61	
C	30 May	BBCH 61	0.5 mm
	31 May		misting
D	1 June	BBCH 61	
E	4 June	BBCH 62	5.7 mm
	5 June		6.5 mm

# ECHIQUIER® Technical Positioning

Disease severity % 

Marne 51490

● Yield (t/ha)




# ECHIQUIER® Technical Positioning

- ❑ Positioning trials, France 2019
- ❑ Impact of application timing during flowering
- ❑ ECHIQUIER applied at 1 kg/ha, 200 l water/ha
- ❑ Artificial inoculation at BBCH 61

*Fusarium graminearum* →

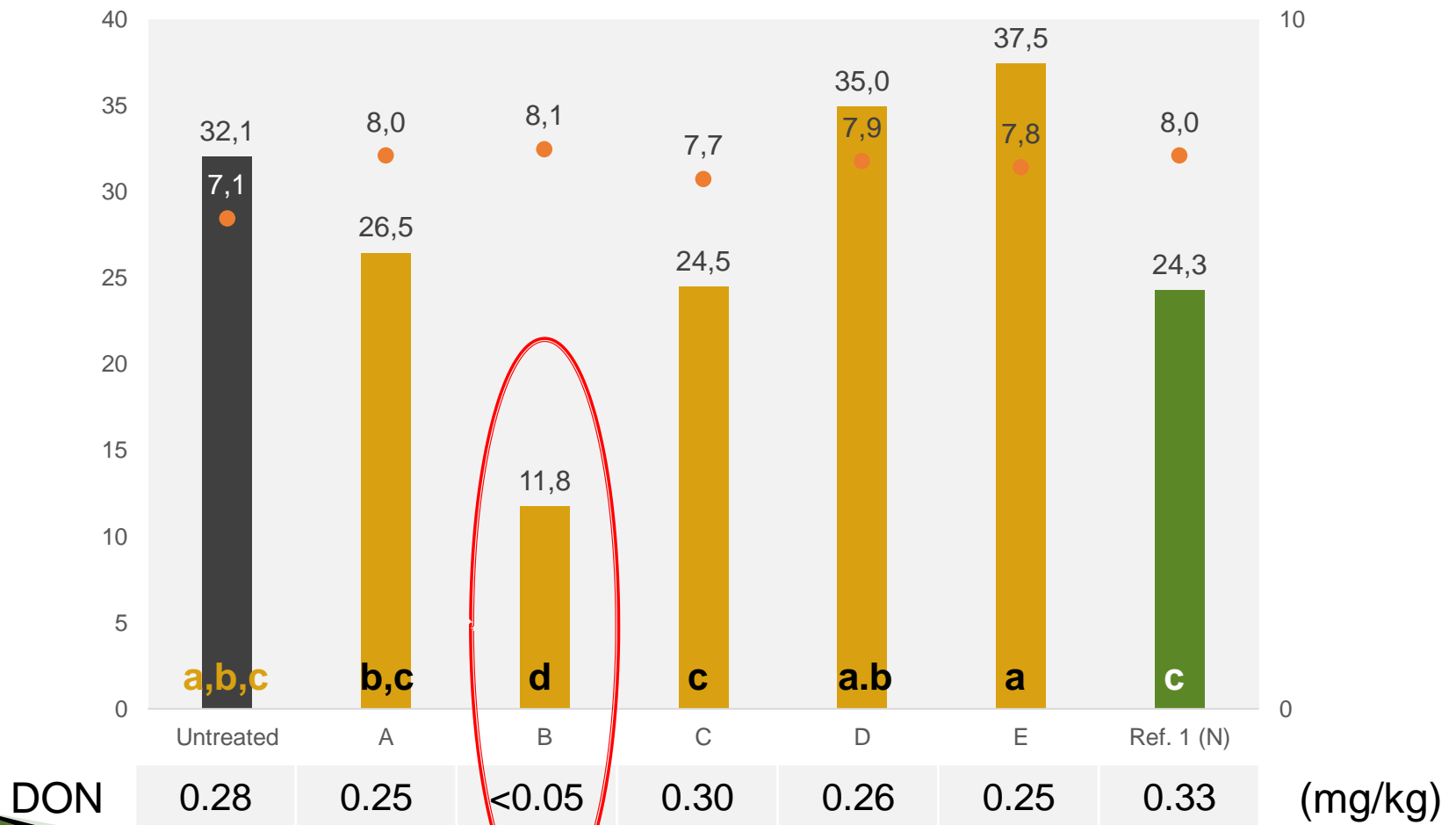
Vendée			
Trt.	Date	Crop Stage	Rain
A	20 May	BBCH 61	0.8 mm
	21 May		
B	22 May	BBCH 61	
C	24 May	BBCH 62	
	25 May		0.2 mm
D	26 May	BBCH 62	1.2 mm
	28 May		1.2 mm
E	29 May	BBCH 64	

# ECHIQUIER® Technical Positioning

Disease severity % 

Vendée 85310

● Yield (t/ha)



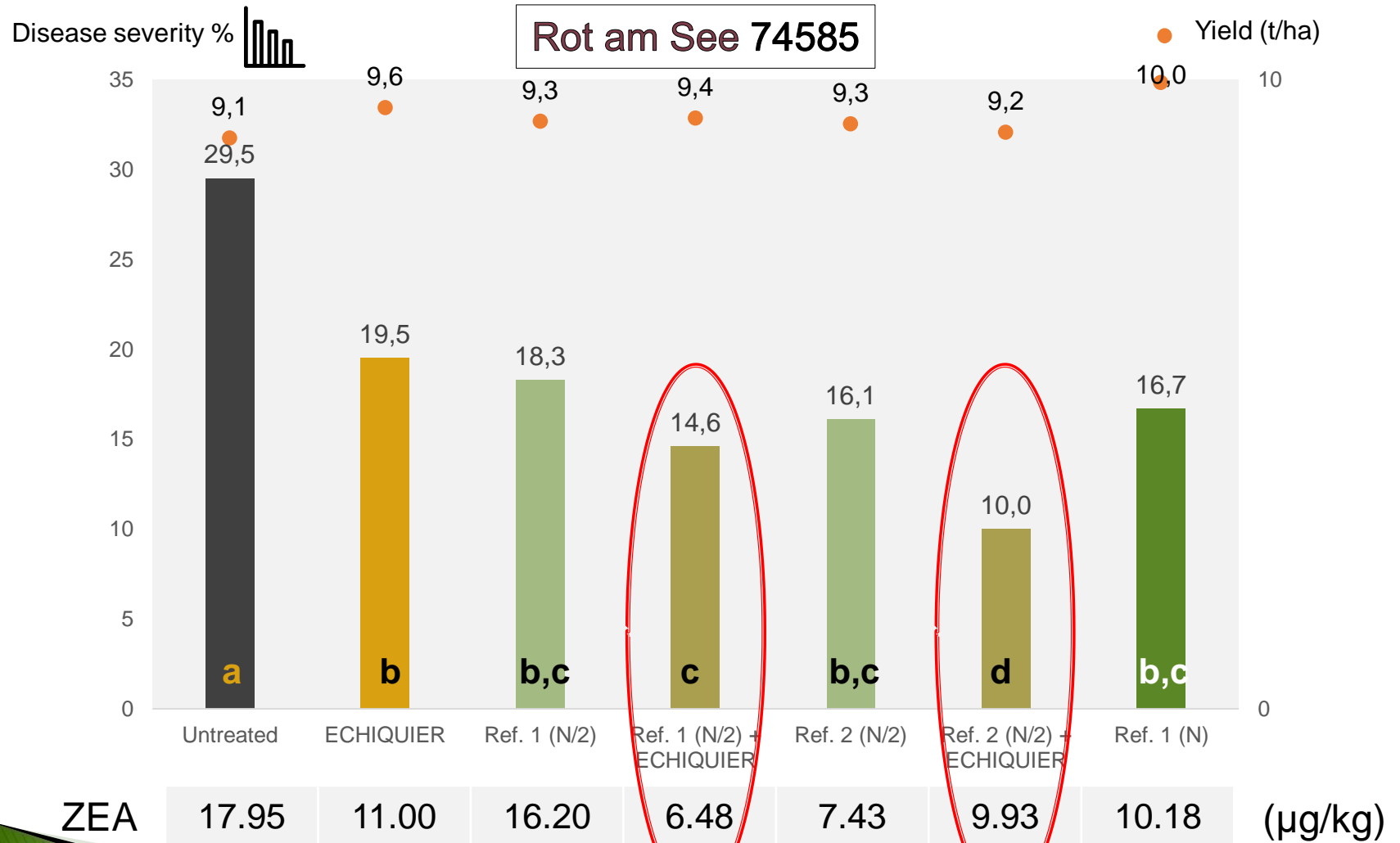
# ECHIQUIER® Technical Positioning

- ❑ Positioning trial, Germany 2019
- ❑ Tank-mixtures with SBI reference products at N/2 rate
- ❑ ECHIQUIER applied at 2.5 kg/ha, 300 l water/ha
- ❑ Artificial inoculation at BBCH 60–61

*Fusarium culmorum* →

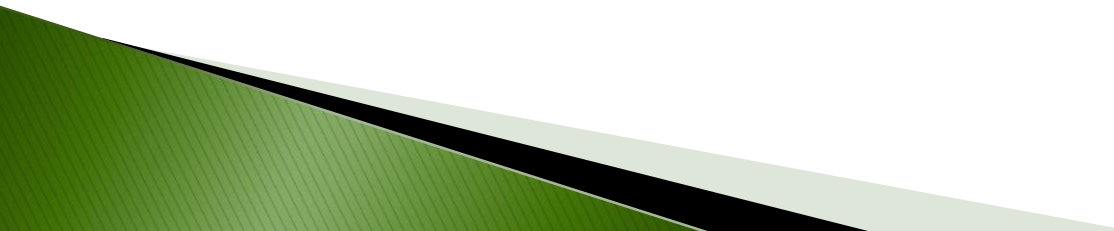
Rot am See			
Trt.	Date	Crop Stage	Rain
	15 June	BBCH 61	0.5 mm
	16 June		7.1 mm
	17 June		0.1 mm
A	18 June	BBCH 62	0.1 mm
	19 June		0.1 mm
	20 June		3.4 mm
	22 June		9.3 mm

# ECHIQUIER® Technical Positioning





# Conclusions

- ❑ ECHIQUIER applied at 1–2.5 kg/ha provides efficacy against Fusarium Ear Blight and reduction in mycotoxins equivalent to chemical standards
  - ❑ Optimum positioning at start of flowering (BBCH 61), if possible after rain events
  - ❑ Improvements in efficacy in tank–mix with reduced rates of conventional fungicides
- 

# Thanks to our partners!



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