



MAIZE TRIALS 2021

MGA Cover Crop Trial 2019-2020



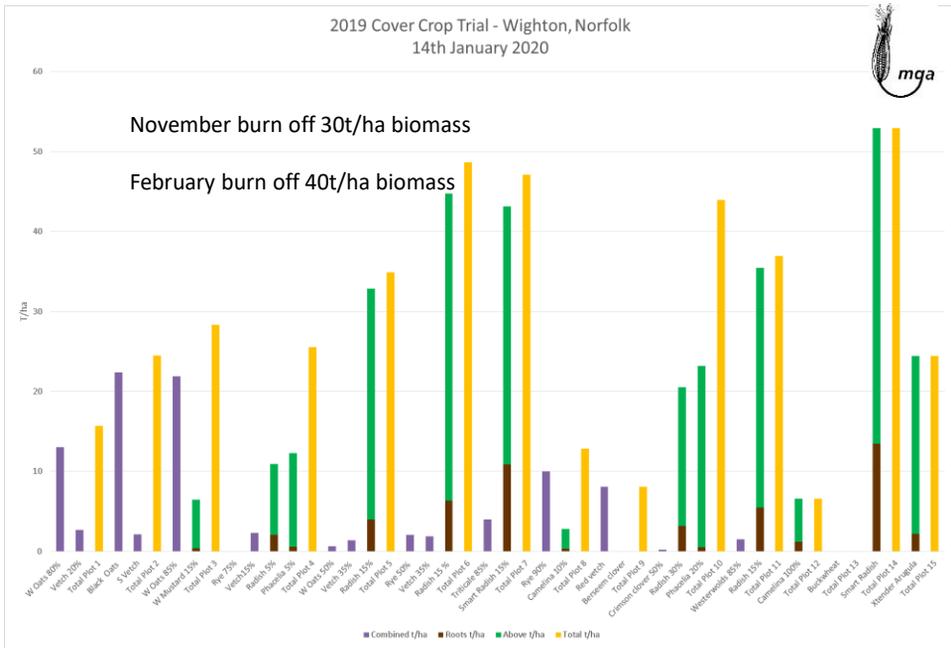
MGA Cover Crop Trial 2019-2020

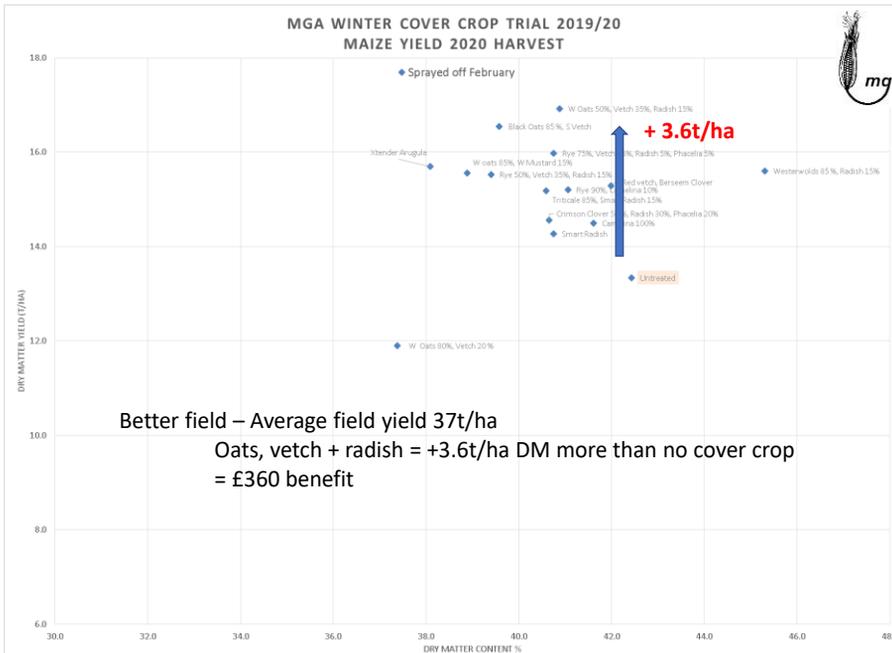
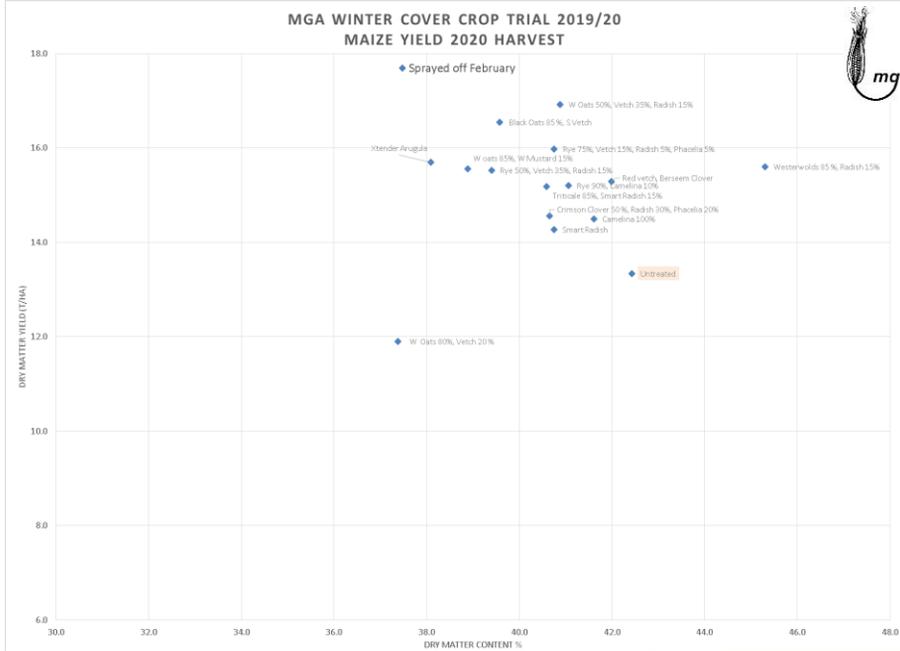


Norfolk MGA Cover Crop trials 2019		
	MIXTURE	Sow rate (kg/ha)
1	W Oats 80% / Vetch 20%	35
2	Black Oats / S Vetch	35
3	W Oats 85% / W Mustard 15%	35
4	Rye 75% / Vetch 15% / Radish 5% / Phacelia 5%	35
5	W Oats 50% / Vetch 35% / Radish 15%	35
6	Rye 50% / Vetch 35% / Radish 15%	35
7	Triticale 85% / Smart Radish 15%	25
8	Rye 90% Camelina 10%	35
9	Red vetch / Berseem clover	25
10	Crimson clover 50% / Radish 30% / Phacelia 20%	12
11	Westerwolds 85% / Radish 15%	10
12	Camelina 100%	5
13	Buckwheat	5
14	Smart Radish	5
15	Xtender Arugula	2.5

MGA Cover Crop Trial 2019-2020









take home message:

Winter cover crops should become standard practice if following cereals

Drill cover crop early into moisture. Clovers need to be surface sown.
Rye, vetch, radish and phacelia best mix

Can be grazed with flying flock
Radish can be slug hotels

Burn off end of February, to ensure good kill. High biomass need two applications, especially if blackgrass present.

Can be drilled direct with specialist drill to preserve soil moisture



MGA winter cover crop trials 2020-21

Cereal and grass established 14 Oct



Fallow					
Triticale 200kg/ha					
Triticale 200kg/ha					
Hybrid Rye 200kg/ha					
Triticale 200kg/ha					
IRG 35kg/ha					
Westerwold 35kg/ha					
Oat & winter legume mix 100kg/ha					
Winter oat 200kg/ha					
Spring Oat 200kg/ha					
Winter oat 35kg/ha					
Spring Oat 35kg/ha					
Radish 5kg/ha					
Fallow					

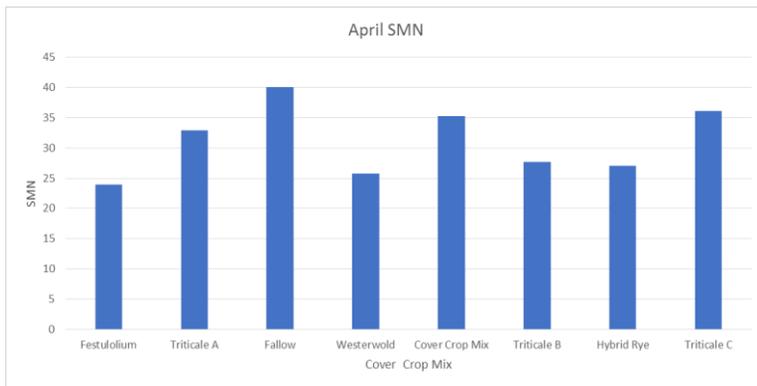
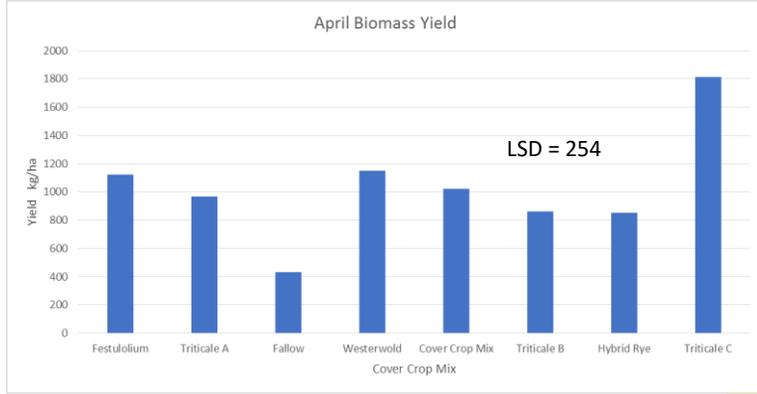
GAI 0.5-0.8

Good winter grazing for hares, muntjac and roe deer



Which would you prefer?

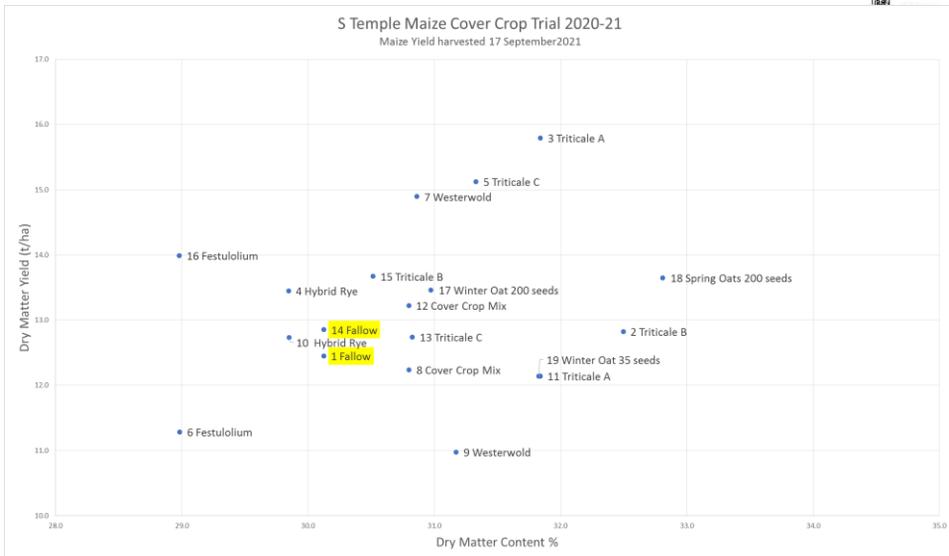






Harvested 17 September 2021

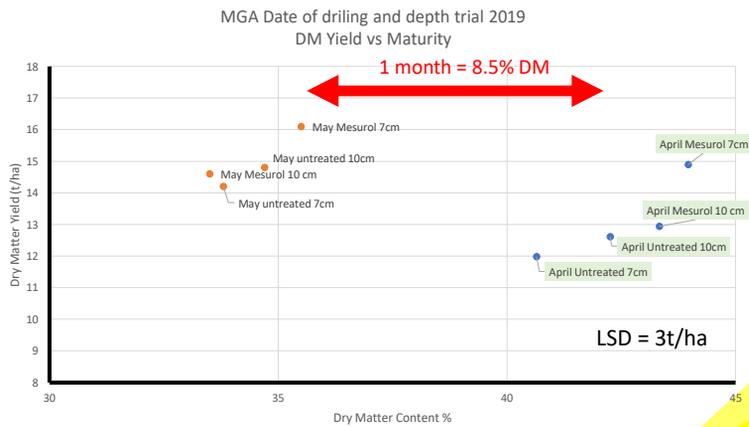
Perfect maturity at harvest
Good yield and high starch for
cheese production

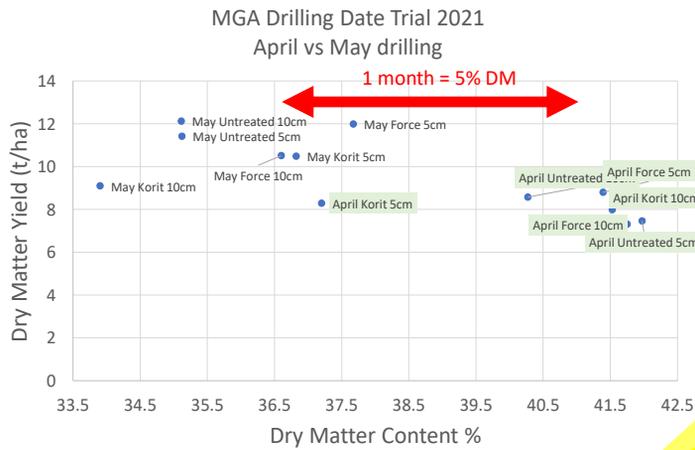
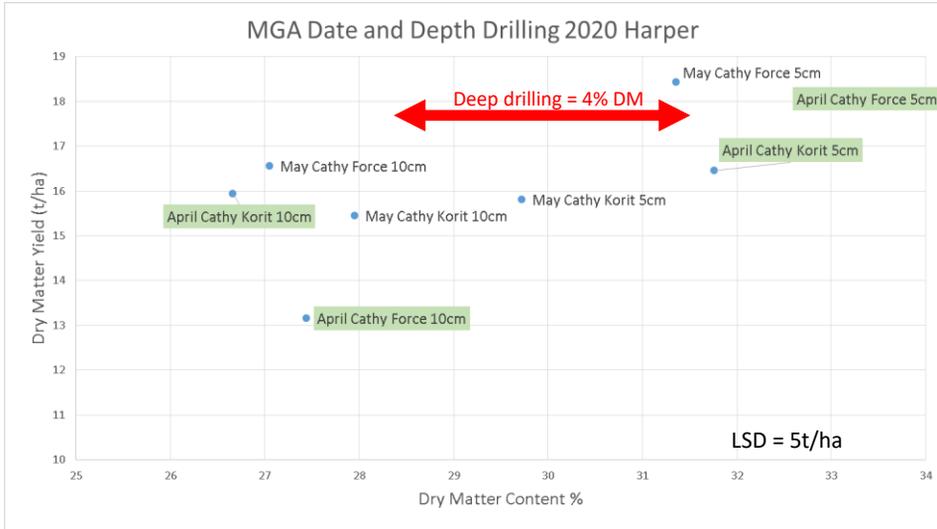


MGA Maize drill date and depth 2019-21



MGA Maize drill depth treatment trial 2019







take home message:

April drilling when seedbed conditions are correct results in an earlier harvest and higher dry matters

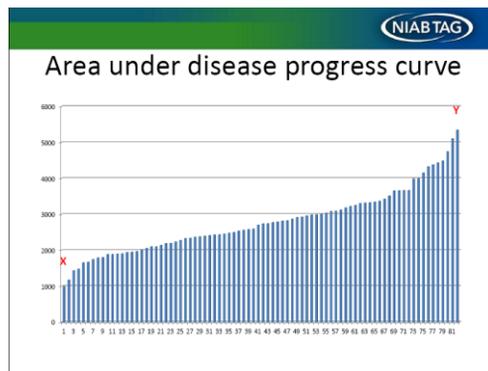
+ 8% dry matter = 2% increase per week rule

Drill to moisture level in soil, but excessive deep drilling will result in lower dry matter and starch content even in good spring

Organic maize must be drilled deep, birds can reduce plant establishment even at 7cm depth

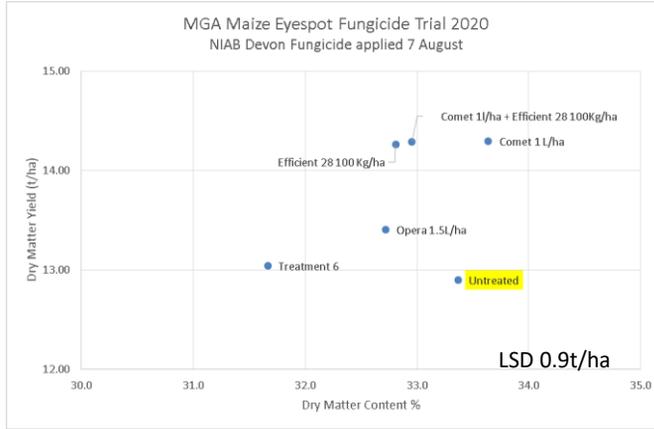
NIAB Eyespot rating on MGA variety list

- All varieties get eyespot
- Emmerson = 1.8 bad to LG31209 = 8.9 good
If in high infection area must spray whatever
- Fungicides give 6 weeks protection

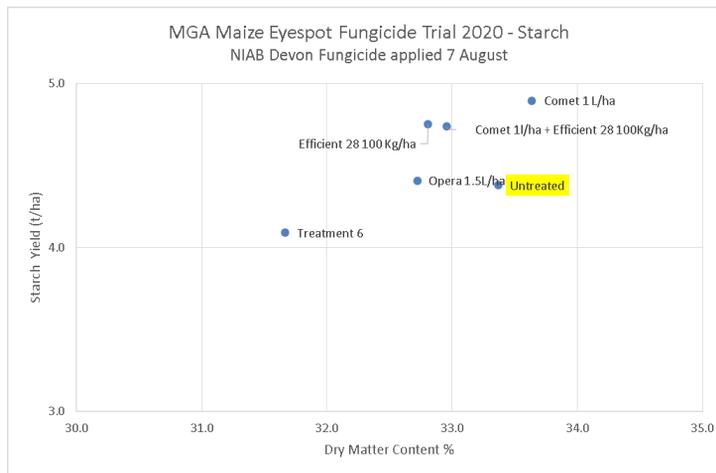




Eyespot – NIAB Devon 2020

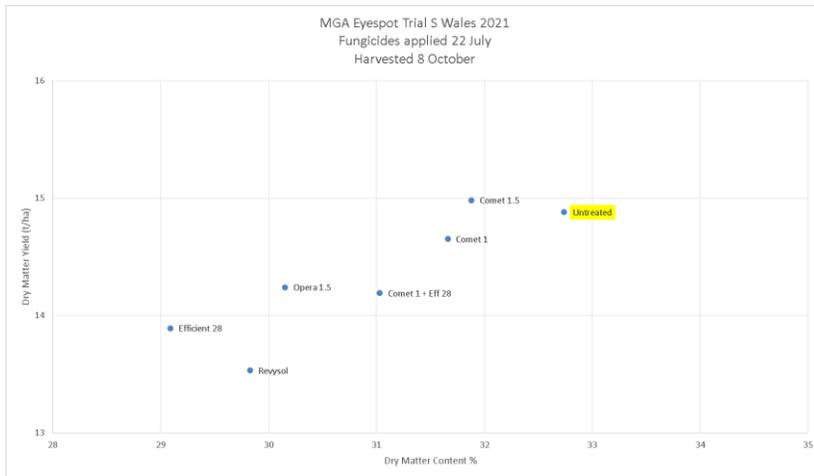
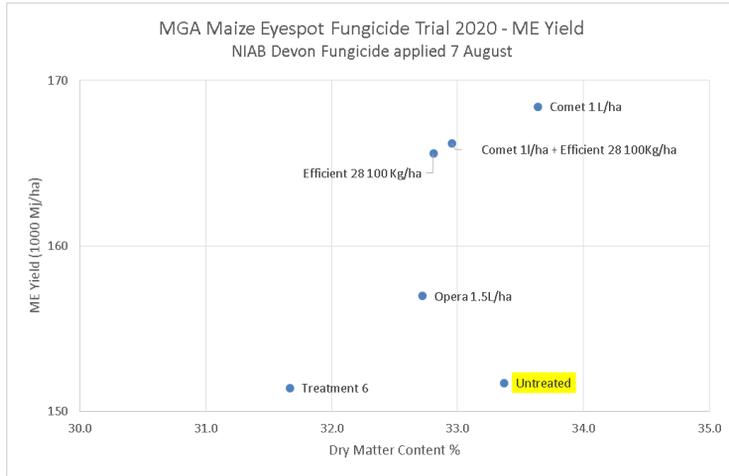


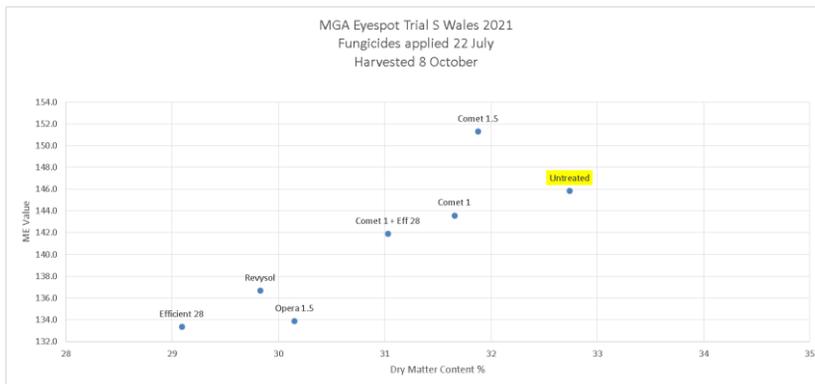
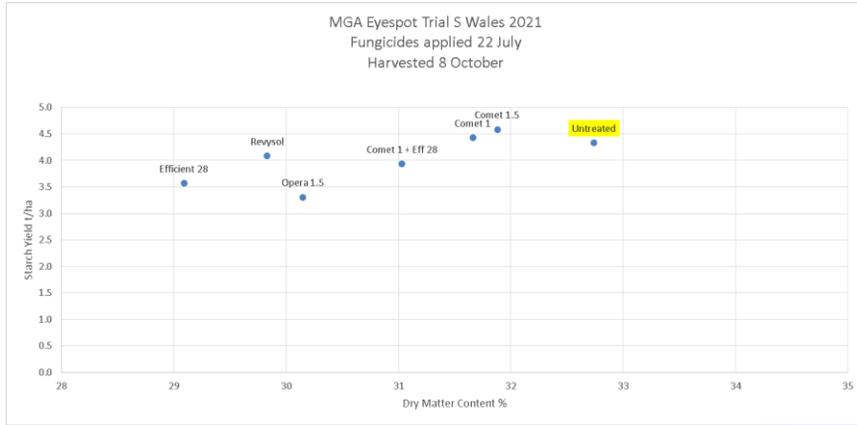
Eyespot – NIAB Devon 2020

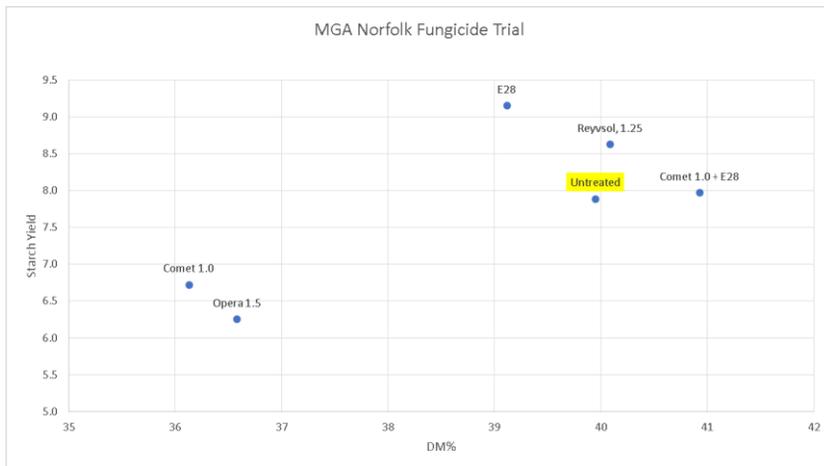
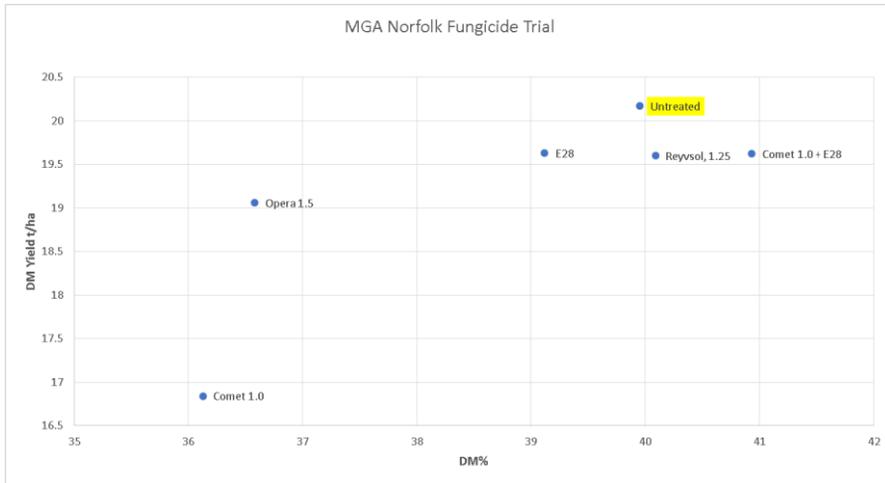


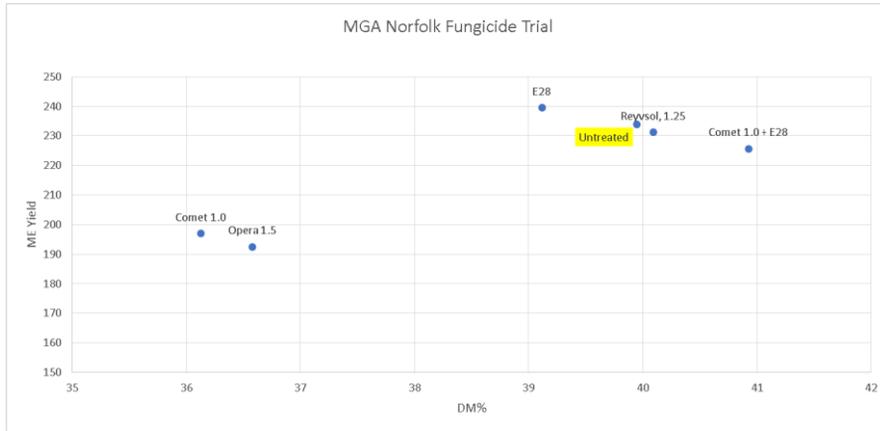


Eyespot – NIAB Devon 2020









take home message:

Where eyespot is a risk the application of 1l/ha Comet should be applied

Keeping the leaf greener may result in slightly lower dry matter

Healthy leaves are better for the cows?