

**Carvel Research and Education Center Georgetown, DE**  
**2020 Irrigated Corn Fungicide Trial – Rotated Field**

Treatment <sup>z</sup>	% GLS Incidence 14 daa <sup>y</sup>	% GLS Severity 14daa <sup>x</sup>	% GLS Severity 28 daa	% GLS Severity 42 daa	Canopeo green canopy cover 49 daa	Moisture	Test Weight	Yield <sup>w</sup>
Veltyma (R1) 7 oz/a	24.0 ab	0.24 ab	0.48 ab	1.10 abc	47.2 ab	22.8 a	52.5 abc	227.2 a
Headline AMP (R1) 10 oz/a	22.0 ab	0.22 ab	0.52 bc	1.48 d	43.4 bc	22.8 a	52.7 bc	232.3 a
Priaxor (R1) 4 oz/a	24.0 ab	0.24 ab	0.50 ab	1.36 bcd	43.7 abc	22.9 a	52.6 bc	227.8 a
USF0411 (R1) 8 oz/a	30.0 b	0.30 b	0.54 b	0.88 a	49.8 a	23.3 a	52.5 abc	228.6 a
Topguard EQ(R1) 5 oz/a	22.0 ab	0.24 ab	0.52 ab	1.30 bcd	46.0 ab	23.0 a	52.6 bc	229.4 a
Lucento (R1) 5 oz/a	22.0 ab	0.22 ab	0.48 ab	1.04 ab	48.0 ab	23.0 a	52.3 ab	231.8 a
Trivapro (V8) fb Miravis Neo (R1) 13.7 +13.7 oz/a	16.0 a	0.18 ab	0.50 ab	1.36 bcd	48.3 ab	23.6 a	52.2 ab	230.1 a
Trivapro (R1) 13.7 oz/a	24.0 ab	0.24 ab	0.52 ab	1.34 bcd	43.7 abc	23.1 a	52.5 abc	230.0 a
Trivapro (V8) (3 reps) 13.7 oz/a	30.0 b	0.30 b	0.50 ab	1.23 a-d	38.8 c	22.8 a	52.8 c	220.2 a
Miravis Neo (V8) 13.7 oz/a	20.0 ab	0.20 ab	0.52 ab	1.42 cd	39.3 c	22.8 a	52.8 c	224.8 a
Miravis Neo (R1) 13.7 oz/a	14.0 a	0.14 a	0.46 a	1.30 bcd	46.2 ab	23.3 a	52.1 a	228.4 a
Control	86.0 c	0.88 c	0.70 c	2.50 e	39.5 c	22.7 a	52.9 c	218.1 a
<i>p</i> -value	0.0001	0.0001	0.0001	0.0001	0.007	0.108	0.05	0.315
LSD ( $\alpha=0.05$ )	12.16	0.13	0.07	0.36	6.05	0.57	0.47	10.75

<sup>z</sup>V8 applied 6/24/20, R1 applied 7/14/20 using a CO<sub>2</sub> pressurized backpack sprayer equipped with TP8002-VS flat fan nozzle nozzles calibrated to deliver 20 GPA at 40 psi with plots set up in RCBD with five replications. All treatments included 0.125% non-ionic surfactant, Induce.

<sup>y</sup> Disease incidence was rated as percentage of 10 ear leaves with grey leaf spot lesions caused by *Cervospora zeae-maydis*. Means followed by the same letter are not significantly different based on Fisher's Least Significant Difference (LSD;  $\alpha=0.05$ ).

<sup>x</sup> Grey leaf spot severity was visually assessed as the average % ear leaf covered in lesions per plot; means of 10 leaves per plot were used for analysis.

<sup>w</sup> Yield was calculated from the center two rows of each plot and adjusted to 15.5% moisture.

Variety: Hubner H6187RCSS  
 Planting Date: 5/14/20  
 Harvest Date: 9/15/20  
 Planting Population: 32,000 sd/A



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**Warrington Irrigation Farm**  
**2020 Irrigated Corn Fungicide Trial – Corn on Corn**

Treatment <sup>z</sup>	Avg % GLS Incidence 14 daa <sup>y</sup>	Avg % GLS Severity 14daa <sup>x</sup>	Avg % GLS Severity 28 daa	Avg % GLS Severity 42 daa	Avg % Curvularia Severity 42 daa <sup>w</sup>	Canopeo green canopy cover 42 daa	% Lodging (out of 10 plants) 72 daa	Test Weight	Moisture	Yield <sup>v</sup>
Veltyma (R1) 7 oz/a	8.0 a	0.08 a	0.88 a	2.28 c	8.87 abcd	42.4 cd	6.0 ab	57.0 ab	20.26 abcd	218.8 a
Headline AMP (R1) 10 oz/a	18.0 abc	0.18 abc	1.00 a	2.02 abc	9.22 bcd	44.0 bcd	6.0 ab	57.0 ab	19.90 bcd	228.4 a
Priaxor (R1) 4 oz/a	14.0 ab	0.14 ab	0.98 a	2.18 bc	9.14 bcd	40.9 d	8.0 ab	57.2 ab	19.80 de	220.9 a
Revytek (R1) 8 oz/a	16.0 abc	0.16 ab	0.84 a	1.56 abc	7.72 a	47.7 abcd	2.0 ab	56.2 c	20.38 ab	228.7 a
USF0411 (R1) 8 oz/a	16.0 abc	0.16 ab	0.86 a	1.20 a	7.60 a	51.8 a	0.0 a	56.7 bc	20.42 a	225.8 a
Delaro (R1) 8 oz/a	14.0 ab	0.14 ab	0.96 a	1.76 abc	9.50 bcd	41.4 d	2.0 ab	57.1 ab	19.86 cde	221.5 a
Topguard EQ (R1) 5 oz/a	12.0 ab	0.12 ab	1.02 a	1.82 abc	8.40 ab	46.8 abcd	10.0 b	57.0 ab	20.16 abcd	233.9 a
Lucento (R1) 5 oz/a	20.0 bc	0.20 bc	0.78 a	1.60 abc	7.76 a	49.2 ab	0.0 a	56.6 bc	20.26 abcd	227.0 a
Trivapro (R1) 13.7 oz/a	26.0 c	0.28 c	0.84 a	1.90 abc	9.08 bcd	46.3 abcd	2.0 ab	57.0 ab	20.12 abcd	226.7 a
Miravis Neo (R1) 13.7 oz/a	12.0 ab	0.12 ab	0.70 a	1.42 ab	8.58 abc	48.7 abc	4.0 ab	56.8 bc	20.32 abc	226.3 a
Quilt Xcel (R1) 10.5 oz/a	20.0 bc	0.20 bc	1.08 a	2.00 abc	9.74 cd	46.3 abcd	8.0 ab	56.8 bc	20.22 abcd	219.7 a
Control	98 d	1.18 d	2.7 b	11.18 d	9.90 d	32.5 e	26.0 c	57.5 a	19.38 e	205.2 a
<i>p</i> -value	0.0001	0.0001	0.0001	0.0001	0.004	0.0001	0.0003	0.05	0.005	0.33
LSD ( $\alpha=0.05$ )	10.45	0.12	0.50	0.84	1.29	6.8	9.77	0.65	0.50	19.0

<sup>z</sup>All treatments applied 7/14/20 using a CO<sub>2</sub> pressurized backpack sprayer equipped with TP8002-VS flat fan nozzles calibrated to deliver 20 GPA at 40 psi with plots set up in RCBD with five replications. All treatments included 0.125% non-ionic surfactant, Induce.

<sup>y</sup> GLS incidence was rated as percentage of 10 ear leaves with grey leaf spot lesions caused by *Cercospora zeae-maydis*. Means followed by the same letter are not significantly different based on Fisher's Least Significant Difference (LSD;  $\alpha=0.05$ ).

<sup>x</sup> GLS severity was visually assessed as the avg % ear leaf covered in GLS lesions per plot; means of 10 leaves per plot were used for analysis.

<sup>w</sup> Curvularia severity was visually assessed as avg % ear leaf covered in Curvularia lesions per plot; means of 10 leaves per plot were used for analysis.

<sup>v</sup> Yield was calculated from the center two rows of each plot and adjusted to 15.5% moisture.

Variety: Axis 64K24  
 Planting Date: 5/11/20  
 Harvest Date: 10/6/20  
 Planting Population: 34,000 sd/A



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