Carvel Research and Education Center Georgetown, DE
2022 Irrigated Corn Fungicide Trial – Rotated Field

Treatment[z]	% GLS Severity[y] 28 daa	% GLS Severity 35 daa	Canopeo green canopy cover 35 daa	Moisture	Test Weight	Yield[x]
Veltyma (R1) 7 oz/a	3.44 cd	5.52 de	43.58 abc	17.66	55.60	221.1
Veltyma (R1) 10 oz/a	3.00 de	5.80 de	40.08 cd	17.78	55.58	210.2
Revytek (R1) 8 oz/a	3.00 de	5.48 e	39.82 cd	17.78	55.46	205.0
Delaro Complete (R1) 8 oz/a	1.76 e	4.92 e	41.56 abc	17.74	55.54	204.0
Topguard EQ(R1) 5 oz/a	3.76 cd	6.80 bcd	40.83 a-d	18.06	55.42	199.1
Lucento (R1) 5 oz/a	4.20 bcd	5.88 de	41.37 abc	18.04	55.46	209.5
Miravis Neo (V5) 13.7 oz/a	5.36 ab	7.24 abc	39.77 cd	17.64	55.38	186.8
Experimental (V5) 13.7 oz/a	4.80 abc	7.52 ab	40.35 bcd	17.52	55.58	191.7
Trivapro (R1) 13.7 oz/a	5.24 ab	7.44 ab	40.12 cd	17.56	55.42	202.2
Miravis Neo (R1) 13.7 oz/a	4.64 bc	5.56 de	44.61 a	17.82	55.60	203.7
Experimental (R1) 13.7 oz/a	4.16 bcd	6.12 cde	44.10 ab	17.70	55.38	199.5
Trivapro (V5) fb Experimental (R1) 13.7 oz/a fb 13.7 oz/a	4.48 bc	5.68 de	43.27 abc	17.92	55.70	207.4
Control	6.24 a	8.40 a	36.94 d	17.40	55.70	197.5
p-value	0.0001	0.0001	0.0143	0.5190	0.4313	0.1341
LSD (α=0.05)	1.47	1.28	3.91	ns	ns	ns

[z]V5 applied 6/17/22, R1 applied 7/18/22 using a CO_2 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.

[y] Grey leaf spot severity was visually assessed as the average % ear leaf covered in lesions per plot; means of 5 leaves per plot were used for analysis. Means followed by the same letter are not significantly different based on Fisher's Least Significant Difference (LSD; α=0.05), ns=not significant.

[x] Yield was calculated from the center two rows of each plot and adjusted to 15.5% moisture.

Warrington Irrigation Farm
2022 Irrigated Corn Fungicide Trial – Rotated Field

Treatment[z]	Avg % GLS Incidence 22 daa[y]	Avg % GLS Severity 35 daa[x]	Avg % GLS Severity 43 daa	Avg % Curvularia Severity 43 daa[w]	Test Weight	Moisture	Yield[v]
Veltyma (R1) 7 oz/a	7.5	0.450 b	0.625 b	2.75 ab	58.33	20.38	297.8
Veltyma (R1) 10 oz/a	2.5	0.225 b	0.263 b	0.95 d	58.88	19.45	289.3
Revytek (R1) 8 oz/a	2.5	0.150 b	0.500 b	2.00 bcd	58.25	19.83	263.1
Delaro Complete (R1) 8 oz/a	7.5	0.263 b	0.688 b	1.75 bcd	58.48	20.13	288.1
Topguard EQ (R1) 5 oz/a	5.0	0.188 b	0.413 b	1.85 bcd	58.25	20.28	305.6
Lucento (R1) 5 oz/a	0.0	0.400 b	0.938 b	1.30 cd	58.50	19.90	292.6
Trivapro (R1) 13.7 oz/a	5.0	0.537 b	0.462 b	2.18 abc	58.18	20.10	264.7
Miravis Neo (R1) 13.7 oz/a	0.0	0.137 b	0.375 b	1.35 cd	58.65	19.45	262.6
Experimental (R3)-(R5) 13.7 oz/a	5.0	0.237 b	0.450 b	1.33 cd	58.45	19.75	271.4
Control	10.0	0.987 a	1.750 a	3.30 a	58.35	19.90	258.8
p-value	0.67	0.018	0.007	0.0087	0.54	0.29	0.71
LSD (α=0.05)	*ns*	0.45	0.68	1.17	*ns*	*ns*	*ns*

[z]R1 applied 7/13/22, R3-R5 applied 8/10/22 using a CO_2 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.

[y] 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; α=0.05).

[x] 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.

[w] 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.

[v] Yield was calculated from the center two rows of each plot and adjusted to 15.5% moisture.

Variety: Axis 64B28
Planting Date: 5/3/22
Harvest Date: 9/28/22
Planting Population: 36,000 sd/A

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