

Table 1. Effect of foliar fungicide products applied at different growth stages on percent gray leaf spot (GLS) severity at four locations in Iowa in 2017

Treatment, rate/A	Application timing	NWRP		NERF		SWRF	SERF	
		Upper Canopy	Lower Canopy	Upper Canopy	Lower Canopy	Upper Canopy	Upper Canopy	Lower Canopy
Non-treated control	-	1.0 bcd*	2.5 a	2.3 a	6.0 a	8.8 abc	1.3 a	6.3 bcd
Regalia, 32 fl oz	V5	0.9 cde	2.8 a	2.3 a	5.7 ab	10.5 a	1.3 a	9.0 a
Delaro, 4 fl oz	V5	1.3 abc	2.5 a	2.1 ab	4.8 bc	9.0 abc	1.1 ab	7.5 ab
Trivapro, 10.5 fl oz + 4.1 fl oz	V12	0.2 g	0.5 d	0.4 e	1.3 e	3.8 e	0.4 def	2.0 fg
Topguard EQ, 5 fl oz	V12	0.3 fg	0.5 d	2.0 abc	2.2 e	4.4 de	0.1 ef	2.6 fg
Delaro, 4 fl oz	V12	0.0 g	0.5 d	0.3 e	1.3 e	3.5 e	0.6 bcde	2.0 fg
Regalia, 32 fl oz	R1	1.5 a	2.5 a	1.7 bcd	4.8 bc	5.0 de	0.6 bcde	5.3 bcde
Topguard EQ, 5 fl oz	R1	0.7 def	1.2 cd	1.5 cd	3.3 d	5.8 cde	0.6 bcde	3.8 efg
Stratego YLD, 4 fl oz	R1	1.0 bcd	2.2 ab	1.7 bcd	3.8 cd	9.3 abc	0.8 abcd	7.0 abc
Aproach Prima, 6.8 fl oz	R1	0.8 de	1.6 bc	1.7 bcd	3.5 d	4.8 de	0.6 bcde	4.3 def
Trivapro, 10.5 fl oz + 4.1 fl oz	R1	0.7 def	1.1 cd	1.8 bcd	3.5 d	9.5 abc	0.5 cdef	3.3 efg
Helmstar, 10.8 fl oz	R1	0.9 cde	1.3 bcd	1.3 d	3.5 d	5.7 cde	0.6 bcde	5.0 cde
Delaro, 4 fl oz	R1	0.6 ef	0.9 cd	1.4 d	3.7 d	9.8 ab	0.0 f	1.8 g
Regalia, 32 fl oz + Regalia, 32 fl oz	V5+R1	1.3 ab	2.8 a	1.7 bcd	4.8 bc	10.0 a	0.6 bcde	6.3 bcd
Topguard EQ, 5 fl oz + Topguard EQ, 5 fl oz	V5+R1	0.7 def	1.25	1.5 cd	3.3 d	6.0 bcde	1.0 abc	4.3 def
Aproach, 3 fl oz + Aproach Prima, 6.8 fl oz	V5+R1	0.6 ef	1.0 cd	1.5 cd	3.7 d	7.5 abcd	0.6 bcde	5.0 cde
P-value		<0.0001	<0.0001	<0.0001	<0.0001	0.0076	0.0083	<0.0001

*Gray leaf spot severity scores followed by the same letter are not statistically different from each other, P<0.1.