

Helminthosporium (Melting-Out) study - 1978

The 1978 Helminthosporium vagans (melting-out) fungicide trials were conducted at the MSU soils research farm on Park Kentucky bluegrass maintained at a 1½" height of cut. Fungicide treatments were applied on a bi-weekly schedule on May 3, May 18 and May 31, except as noted on the data charts. All liquid and wettable powder formulations were applied with a CO₂ small plot sprayer at a volume of 40 gal/acre. The granular formulations were applied with a 3' Scotts drop-type spreader.

The plots were 3' x 6' and were replicated three times in a randomized block design. The plots were rated on June 15.

HELMINTHOSPORIUM LEAF SPOT STUDY RATINGS

MSU SOILS FARM - 6/15/78

QUALITY RATINGS - 1, best - 9, worst

Treatment	Rate/1000 ft ²	Repetition			AVE	DMR
		I	II	III		
Lesco 2887	3 oz	3	3	2	2.7	A
DPX 4424	2 oz (ai)	3	2	3	2.7	A
DPX 4424 + Tersan 75	.5 oz (ai) + 3 oz	3	2	3	2.7	A
DPX 4424 + Tersan 1991	1 oz (ai) + 1 oz	2	2	5	3	AB
Lesco 2887	2 oz	3	2	5	3.3	ABC
DPX 4424	1 oz (ai)	3	2	5	3.3	ABC
Dac. 2787-WP	4 oz	2	5	4	3.7	ABCD
Rp 26019	1 oz (ai)	3	6	3	4	ABCD
Dac. 2787-500 F1	6 fl oz	4	6	2	4	ABCD
BFN 8090	1 oz	2	5	5	4	ABCD
BFN 8077	1 fl oz	6	3	3	4	ABCD
BFN 8077	4 fl oz	4	4	4	4	ABCD
Rp 26019	.5 oz (ai)	4	5	4	4.3	ABCDE
DPX 4424	.5 oz (ai)	3	5	5	4.3	ABCDE
Tersan 1991	1 oz	2	5	6	4.3	ABCDE
Dac. 2787-6F	6 fl oz	2	5	6	4.3	ABCDE
Dac. 2787-500 F1	3 fl oz	3	6	4	4.3	ABCDE
Dac. 2787-WP	2 oz	3	4	6	4.3	ABCDE
Acti-dione TGF	.34 oz	5	4	5	4.7	ABCDEF
BFN 7789	1 fl oz	6	3	5	4.7	ABCDEF
Acti-dione TGF	.69 oz	4	5	6	5	ABCDEF
Acti-dione Plus	.69 oz	8	5	2	5	ABCDEF
Rp 26019	.75 oz (ai)	7	4	5	5.3	ABCDEF
Acti-dione Plus	.34 oz	6	6	4	5.3	ABCDEF
DPX 4424 + Tersan 75	1 oz (ai) + 3 oz	3	8	5	5.3	ABCDEF
GA-64251 (EC)	8 gm (ai)	7	4	5	5.3	ABCDEF
BFN 8006 (GR)	4 lbs	4	6	6	5.3	ABCDEF
Dac. 2787 - 6F	3 fl oz	5	6	6	5.7	ABCDEF
BFN 8090	4 oz	5	7	5	5.7	ABCDEF
BFN 7789	4 fl oz	4	8	5	5.7	ABCDEF
BFN 8006 (GR)	2 lbs	4	7	6	5.7	ABCDEF
Bromosan - FL ^a	4 fl oz	9	4	5	6	BCDEF
BFN 8077	2 fl oz	4	8	6	6	BCDEF
Check	-	4	7	7	6	BCDEF
GA-64251 (EC)	12 gm (ai)	7	6	6	6.3	CDEF
BFN 8090	2 oz	7	6	6	6.3	CDEF
Bromosan WP	3 oz	8	7	5	6.7	DEF
Caddy ^b + Bromosan-FL ^a	1 fl oz + 4 fl oz	9	6	7	7.3	EF
Caddy ^b	1 fl oz	8	7	8	7.7	F

^a These materials applied only once prior to ratings.

^b This material " " twice prior to ratings.

NOTE: Treatments followed by same letter are not significantly different from each other at the 5% level.

HELMINTHOSPORIUM LEAF SPOT STUDY RATINGS
 MSU SOILS FARM - 6/15/78
 DISEASE RATING - 1, least disease, 9, most disease

Treatment	Rate/1000 ft ²	Repetition			AVE.	DMR
		I	II	III		
DPX 4424	1 oz (ai)	1	1	1	1	A
Dac. 2787 - WP	4 oz	1	1	1	1	A
DPX 4424 + Tersan 1991	1 oz (ai) + 1 oz	1	1	1	1	A
Rp 26019	.5 oz (ai)	1	2	1	1.3	AB
DPX 4424	2 oz (ai)	1	2	1	1.3	AB
DPX 4424	.5 oz (ai)	1	2	2	1.7	AB
DPX 4424 + Tersan 75	.5 oz (ai) + 3 oz	1	1	3	1.7	AB
Dac. 2787 - WP	2 oz	3	1	1	1.7	AB
BFN 8077	4 fl oz	2	2	1	1.7	AB
Rp 26019	1 oz (ai)	1	2	3	2	ABC
DPX 4424 + Tersan 75	1 oz (ai) + 3 oz	1	3	2	2	ABC
GA - 64251 (EC)	12 gm (ai)	3	2	1	2	ABC
BFN 7789	4 fl oz	1	4	1	2	ABC
Lesco 2887	2 oz	1	1	5	2.3	ABCD
Acti-dione TGF	.69 oz	1	2	5	2.7	ABCD
Rp 26019	.75 oz (ai)	2	3	4	3	ABCDE
Dac. 2787 - 6F	6 fl oz	4	4	1	3	ABCDE
Lesco 2887	3 oz	1	5	4	3.3	ABCDEF
Dac. 2787 - 500 F1	6 fl oz	2	5	3	3.3	ABCDEF
BFN 8090	1 oz	4	4	2	3.3	ABCDEF
BFN 7789	2 fl oz	2	2	6	3.3	ABCDEF
BFN 8090	4 oz	3	6	2	3.7	ABCDEFG
BFN 8077	2 fl oz	1	3	8	4	ABCDEFG
Bromosan WP	3 oz	6	4	3	4.3	ABCDEFGH
GA - 64251 (EC)	8 gm (ai)	5	2	7	4.7	BCDEFGHI
BFN 8077	1 fl oz	6	2	6	4.7	BCDEFGHI
BFN 7789	1 fl oz	5	7	2	4.7	BCDEFGHI
Bromosan FL ^a	4 fl oz	9	2	5	5.3	CDEFGHI
Dac. 2787 - 6F	3 fl oz	7	7	3	5.7	DEFGHI
BFN 8006 - GR	4 lbs	6	6	5	5.7	DEFGHI
BFN 8090	2 oz	8	7	4	6.3	EFGHI
Acti-dione TGF	.34 oz	8	4	8	6.7	FGCH
Acti-dione Plus	.34 oz	7	8	5	6.7	FGHI
BFN 8006 - GR	2 lbs	6	7	7	6.7	FGHI
Acti-dione Plus	.69 oz	9	9	3	7	GHI
Check	-	8	6	7	7	GHI
Caddy + Bromosan - FL ^a	1 fl oz + 4 fl oz	6	8	9	7.7	HI
Dac. 2787 - 500 FL	3 fl oz	7	8	8	7.7	HI
Caddy ^b	1 fl oz	9	7	8	8	I
Tersan 1991	1 oz	7	9	8	8	I

^a These materials applied only once prior to ratings.

^b This material applied twice only prior to ratings.

NOTE: Treatments followed by same letter are not significantly different from each other at the 5% level.

Results: Helminthosporium melting-out

The following treatments all gave significant control of Helminthosporium melting-out when compared to the untreated control: DPX 4424, .5 oz ai, 1 oz ai, 2 oz ai; DPX 4424 1 oz ai + Tersan 1991 1 oz; DPX 4424 .5 oz ai + Tersan 75 3 oz; DPX 4424 1 oz ai + Tersan 75 3 oz; Daconil 2787 (WP) 4 oz, 2 oz; Daconil 2787 (6F) 6 fl oz; Daconil 2787 (500 FL) 6 fl oz; Rp 26019 .5 oz ai, .75 oz ai, 1 oz ai; BFN 8077 4 fl oz; GA 64251 (EC) 12 gm ai; BFN 7789 2 fl oz, 4 fl oz; Acti-dione TGF .69 oz; Lesco 2887 2 oz, 3 oz; and BFN 8090 1 oz. There are several new fungicides with excellent potential for the control of Helminthosporium melting-out. These new materials, along with established materials like Daconil 2787 and Acti-dione TGF, should provide a good selection of Helminthosporium melting-out fungicides for the future.

Common Dollar Spot - Fungicide Study - 1978

The 1978 common (benzimidazole sensitive) dollar spot (Sclerotinia homeocarpa) study was conducted on a Poa annua fairway on the Burroughs Farms Golf Course, Brighton, Michigan. The 3' x 6' plots were laid out in three replications in a randomized block design. All liquid fungicide applications were made with a CO₂ small-plot sprayer at a volume of 40 gal/acre. All granular formulations were applied with a 3' Scotts drop-type spreader.

The dollar spot infestation was severe over the entire plot area prior to the first fungicide application on August 24. A second treatment was made on September 8, with the ratings being taken on September 20.