

MacroSorb Foliar 2 fl oz + Quelant Minors 1.5 fl oz <sup>b</sup>	14	6.8	cd	6.8	bc	6.8	c
CJB EXP 0220 2 fl oz	21	7	bc	6.5	cd	6.5	cd
Endorse 4 oz + Alude 5.5 fl oz	14	7.3	bc	6.8	bc	6	de
Control	---	6.3	d	5.8	d	5.8	e

<sup>a</sup> Mean of 4 replications; means followed by the same letter do not significantly differ (LSD, 0.05).

<sup>b</sup> Treatments received Daconil Ultrex at 3.2 oz/1000 ft<sup>2</sup> on 7/1 for dollar spot control.

<sup>c</sup> Daconil Ultrex (3.2 oz) treatment applied on 7/1, 7/8, 7/22, and 8/5.

### **Brown Patch (*Rhizoctonia solani*)**

Two preventive studies were conducted this year, one on a ryegrass plot area and a second on a bentgrass green at the Hancock Turfgrass Research Center, E. Lansing, MI. Both studies were randomized complete block designs with 4 replicates of each treatment. Plots measured 2' x 4.5' with 1' alleys. Treatments were applied using a CO<sub>2</sub> backpack sprayer at 36 PSI and 48 GPA, unless otherwise noted in Table 11, using a single 8002E Tee Jet flat fan nozzle. The ryegrass study area was inoculated (on 7/25) with *Rhizoctonia solani* growing on a sand/cornmeal mixture using a drop spreader. Plots were fertilized at a rate of 0.75# N/1000 ft<sup>2</sup>/month on both studies. Treatments were applied beginning on June 20 unless otherwise noted in Table 11. Subsequent applications of the 14-day treatments were made on 7/3, 7/18, 7/30, and 8/14 unless noted otherwise in Table 11. Plots were rated for percent area blighted by brown patch (see Table 11.) Data were analyzed using ANOVA and means separated with LSD (p=0.05).

Disease conditions were mild this year for brown patch, but we did have an average of 21% of the plot area diseased in our control plots (Table 11.) Most treatments provided good brown patch control this season including Compass + Bayleton combinations, Compass, two program style treatments, Spectro, Prostar, Daconil Ultrex, Echo, Heritage, Echo + Propimax, Chipco 26GT, and some experimental Compass products. Several treatments provided good turf quality such as Spectro, Echo + Propimax, and Compass + Bayleton combinations. No phytotoxicity was observed in the study.

**Table 11. Brown Patch on Ryegrass****Location: Hancock Turfgrass Research Center, E. Lansing, MI****Rating Date: August 12, 2003****Rating Scale: Percent area infected with brown patch.**

Treatment and Rate/1000 sq ft	Interval (Days)	I	II	III	IV	Mean	LSD 5%
Compass 0.15 oz + Bayleton 1.0 oz	14	0	0	0	0	0.0	f
Compass 0.15 oz + Bayleton 0.5 oz	14	0	0	0	0	0.0	f
Compass 50WP 0.15 oz	14	0	0	0	0	0.0	f
Eagle WSP 0.6 oz + Fore WSP 6 oz	23-May	0	0	0	0	0.0	f
Fore WSP 6 oz	6-Jun						
Eagle WSP 0.6 oz + Prostar 1.5 oz	20-Jun						
Chipco 26GT 4 fl oz + Fore 6 oz	3-Jul						
Heritage 0.2 oz + Curalan 50DF 1 oz	18-Jul						
Eagle 0.6 oz + Fore WSP 6 oz	1-Aug						
Fore WSP 6 oz + Chipco 26GT 4 fl oz	15-Aug						
Eagle 0.6 oz	29-Aug						
Daconil 825 SDG 3.2 oz	23-May	0	0	0	0	0.0	f
Eagle WSP 0.6 oz + Fore WSP 6 oz	6-Jun						
Eagle 0.6 oz + Prostar 1.5 oz	20-Jun						
Daconil 825 SDG 3.2 oz + Chipco 26GT 4 fl oz	3-Jul						
Heritage 0.2 oz + Curalan 1 oz	18-Jul						
Fore 6 oz + Eagle 0.6 oz	1-Aug						
Daconil 825SDG 3.2 oz	15-Aug						
Eagle 40SP 0.6 oz	29-Aug						
Spectro 4 oz	14	0	0	0	0	0.0	f
Compass 50WG 0.2 oz	2 apps <sup>b</sup>	0	0	0	0	0.0	f
Prostar 70WP 2.2 oz	14	0	0	1	0	0.3	f
Daconil Ultrex 3.2 oz	14	0	0	0	1	0.3	f
Echo 720 3.6 fl oz	14	0	1	0	0	0.3	f
Heritage 0.2 oz	14	0	2	0	1	0.8	f
Echo 720 2 fl oz + PropiMax 0.36 fl oz	14	0.5	0.5	0.5	2	0.9	f
Compass 0327 3.5#	2 apps <sup>b</sup>	0	7	1	1	2.3	ef
Compass 0327 7#	2 apps <sup>b</sup>	5	5	2	0	3.0	ef
Chipco 26GT 4 fl oz	14	5	1	5	2	3.3	d-f
Compass 0328 1.6 #	2 apps <sup>b</sup>	5	10	1	5	5.3	c-f
TADS 1557 2.7 fl oz	14	5	7	7	5	6.0	b-f
Compass 0327 1.75 #	2 apps <sup>b</sup>	20	5	7	7	9.8	b-e
Iprodione Pro 4 fl oz	14	20	5	10	5	10.0	b-e
Compass 0328 3.2 #	2 apps <sup>b</sup>	5	25	10	5	11.3	b-d
Lesco 18 Plus 4 fl oz	14	10	10	20	10	12.5	bc
TADS 1557 5.4 fl oz	14	10	30	10	5	13.8	ab
Compass 0328 0.8 #	2 apps <sup>b</sup>	5	30	5	15	13.8	ab
Control		10	50	10	15	21.3	a

<sup>a</sup> Means followed by the same letter do not differ significantly (LSD, p=0.05).<sup>b</sup> Applied on 6/20 and 8/4 only.