

could show a possible trade-off between decreased turf quality (low rate) and decreased annual bluegrass control (high rate) for the end-user.

Although the final amount of annual bluegrass controlled by each treatment won't be known till the rest of the applications are made during the growing season, both annual bluegrass control and overall turf injury (annual bluegrass and creeping bentgrass) are evident as 4 applications have already been sprayed for each treatment. Although not labeled for use on putting greens, at this point, amicarbazone is providing excellent annual bluegrass control and caused minimal injury to the bentgrass. Summer applications of methiozolin have definitely stressed the annual bluegrass but have not provided the stunning and very selective control that we have seen with late fall applications. The idea with most of these herbicides, however, is to provide gradual and subtle control of annual bluegrass throughout the growing season so that bare soil doesn't result and creeping bentgrass is able to spread and overtake weakened annual bluegrass.

Table 1: Treatment List for Annual Bluegrass Control on a Putting Green

1	PoaCure	Low N	Biweekly
2		High N	
3	PoaCure	Low N	Biweekly Fall Treatments*
4		High N	
5	Xonerate	Low N	Biweekly
6		High N	
7	Velocity	Low N	Biweekly
8		High N	
9	Trimmit	Low N	Biweekly
10		High N	
11	Cutless	Low N	Biweekly
12		High N	
13	Untreated	Low N	Biweekly
14		High N	

*will begin in September

Stop 5. Dollar Spot on Creeping Bentgrass

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Dollar spot, caused by the fungus *Sclerotinia homoeocarpa*, is a very important disease of turfgrass. The fungus attacks the foliage of the plant producing bleached to straw colored lesions which may or may not expand across the width of the blade. The lesions are characterized by possessing a reddish brown perimeter in all susceptible grass species except for annual bluegrass, which lacks the border. As the epidemic progresses, small spots up to 3 inches in diameter are formed. If conditions remain conducive for infection and the disease is left untreated, the spots may coalesce and form larger, irregularly-shaped, blighted areas. The

disease can be spread via equipment such as mowers, from clippings, or just from plants growing in close proximity. Dollar spot is typically more severe in drought-stressed areas as well as those under low fertility. When temperatures range from 60-90°F and nighttime temperatures fall into the 50-60°F area, the disease is most active. Under these temperatures, heavy dew formation usually results and often cob-web like mycelia may be observed on the turf.

This year, two dollar spot studies were conducted; one on a creeping bentgrass green and another on a creeping bentgrass fairway. Both trials exhibited heavy disease infestation. Differences among treatments in the trial are dramatic with many products resulting in excellent dollar spot control and others falling well below acceptable standards. Turfgrass quality differences among treatments can also be observed in these trials.

2013 Dollar Spot Green Treatments

Trt No.	Treatment Name	Rate	Rate Unit	Application Interval
1	Untreated Control			
2	SR-9059	0.5	fl oz/1000 ft2	14 day
3	SR-9059	0.25	fl oz/1000 ft2	14 day
4	SR-9059	0.125	fl oz/1000 ft2	14 day
5	Emerald	0.13	oz/1000 ft2	14 day
6	Banner Maxx	2	fl oz/1000 ft2	14 day
7	IKF-5411	0.4	fl oz/1000 ft2	14 day
8	IKF-5411	0.5	fl oz/1000 ft2	14 day
9	28296	1.65	fl oz/1000 ft2	7 day
10	28296	1.65	fl oz/1000 ft2	14 day
11	28296	3.3	fl oz/1000 ft2	14 day
12	28296	4.356	fl oz/1000 ft2	21 day
13 ^a	28296	4.356	fl oz/1000 ft2	21 day ^a
14	28296	6.6	fl oz/1000 ft2	28 day
16	Honor Intrinsic	0.84	oz/1000 ft2	14 day
17	Briskway	0.5	fl oz/1000 ft2	14 day
18	Daconil Action	3.5	fl oz/1000 ft2	14 day +
18	Appear	6	fl oz/1000 ft2	14 day
19	Magellan	130	ml/100 m2	14 days
20	Magellan	260	ml/100 m2	14 days
21	Regalia	2	fl oz/1000 ft2	7 days
22	MBI-110 AF	4	fl oz/1000 ft2	7 days
23	MBI-110 AF	8	fl oz/1000 ft2	7 days
24	Regalia	2	fl oz/1000 ft2	7 days
24	MBI-110 AF	4	fl oz/1000 ft2	7 days
25A	Torque	0.75	fl oz/1000 ft2	14 days +
25A	Spectro	3.6	oz/1000 ft2	14 days fb
25B	26/36	4	fl oz/1000 ft2	14 days

26A	Torque	0.75	fl oz/1000 ft2	14 days +
26A	Spectro	3.6	oz/1000 ft2	14 days +
26A	Anuew	2.6	g/1000 ft2	14 days fb
26B	26/36	4	fl oz/1000 ft2	14 days +
26B	Anuew	2.6	g/1000 ft2	14 days
27A	Torque	0.75	fl oz/1000 ft2	14 days +
27A	Spectro	3.6	oz/1000 ft2	14 days +
27A	Anuew	5.2	g/1000 ft2	14 days fb
27B	26/36	4	fl oz/1000 ft2	14 days +
27B	Anuew	5.2	g/1000 ft2	14 days
28	Emerald	0.13	oz/1000 ft2	14 days +
29	Daconil Ultrex	3.2	oz/1000 ft2	14 days +
30	Chipco 26GT	4	fl oz/1000 ft2	14 days +
31	Banner Maxx	2	fl oz/1000 ft2	14 days +

^a Applied as a curative treatment.

2013 Dollar Spot Green NORTH

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	1	6	10	15	20	x	30	12	2	21	13	30	4	9
2	2	7	11	16	21	26	31	14	31	25	10	X	28	15
3	3	8	12	17	22	27	13	22	6	23	26	17	1	27
4	4	X	x	18	23	28	25	20	x	19	3	7	11	29
5	5	9	14	19	24	29	X	8	X	16	18	x	24	5
6	7	29	24	5	18	22	27	3	x	10	23	28	13	6
7	26	11	19	16	9	X	4	25	17	x	X	14	26	16
8	3	21	1	8	12	20	x	24	4	9	7	2	22	X
9	13	14	x	15	2	6	30	27	18	11	20	29	8	31
10	X	17	31	23	28	25	10	30	21	1	5	15	12	19

2013 Dollar Spot Fairway Treatments

Trt No.	Treatment Name	Rate	Rate Unit	Application Interval
1	Untreated Control			
2	Encartis	3	fl oz/1000 ft2	14 day
3	Encartis	4	fl oz/1000 ft2	21 day
4	Xzemplar	0.21	fl oz/1000 ft2	21 day
5	Xzemplar	0.26	fl oz/1000 ft2	28 day
6	Emerald	0.18	fl oz/1000 ft2	28 day
7	Secure	0.5	fl oz/1000 ft2	14 day
8	A20235	0.505	fl oz/1000 ft2	14 day
9	Secure	0.5	fl oz/1000 ft2	14 day +
9	Daconil Action	1.6	fl oz/1000 ft2	14 day

10	Secure	0.5	fl oz/1000 ft2	21 day
11	A20235	0.505	fl oz/1000 ft2	21 day
12	Secure	0.5	fl oz/1000 ft2	21 day +
12	Daconil Action	1.6	fl oz/1000 ft2	21 day
13	Curalan WP	1	oz/1000 ft2	21 day
14	A20744	0.3	oz/1000 ft2	14 day
15	A20744	0.5	oz/1000 ft2	14 day
16	A20744	0.5	oz/1000 ft2	21 day
17	A20744	0.3	oz/1000 ft2	14 day +
17	Daconil Action	2	fl oz/1000 ft2	14 day
18	A20744	0.5	oz/1000 ft2	14 day +
18	Daconil Action	2	fl oz/1000 ft2	14 day
19	A20744	0.5	oz/1000 ft2	21 day +
19	Daconil Action	2	fl oz/1000 ft2	21 day
20	A20744	0.3	oz/1000 ft2	14 day +
20	Secure	0.5	fl oz/1000 ft2	14 day
21	A20744	0.5	oz/1000 ft2	14 day +
21	Secure	0.5	fl oz/1000 ft2	14 day
22	A20744	0.5	oz/1000 ft2	21 day +
22	Secure	0.5	fl oz/1000 ft2	21 day
23	A20581	0.34	fl oz/1000 ft2	14 day
24	A20581	0.34	fl oz/1000 ft2	21 day
25	A15457	0.236	fl oz/1000 ft2	21 day +
25	Secure	0.5	fl oz/1000 ft2	21 day
26	Secure	0.5	fl oz/1000 ft2	21 day +
26	Primo Maxx	0.25	fl oz/1000 ft2	21 day
27	Secure	0.5	fl oz/1000 ft2	14 day
28	Secure	0.5	fl oz/1000 ft2	21 day
29	Secure	0.5	fl oz/1000 ft2	21 day +
29	Daconil Action	2	fl oz/1000 ft2	21 day
30	Secure	0.5	fl oz/1000 ft2	21 day +
30	Daconil Action	2	fl oz/1000 ft2	21 day +
30	Primo Maxx	0.25	fl oz/1000 ft2	21 day
32	Daconil Ultrex	3.2	oz/1000 ft2	14 days
33	Banner Maxx	1	fl oz/1000 ft2	14 days

2013 Dollar Spot Fairway

NORTH

	A	B	C	D	E	F	G	H	I	J
1	1	8	15	3	28	X	7	4	11	X
2	X	9	16	22	29	14	1	27	29	x
3	x	10	17	X	30	20	18	10	15	17
4	x	11	18	23	x	32	2	24	23	X
5	4	2	19	24	32	6	x	28	12	9
6	5	12	20	25	X	26	33	25	3	22
7	x	13	21	26	33	8	16	30	x	x
8	7	14	X	27	6	13	X	5	21	19
9	X	26	6	X	x	24	33	3	6	32
10	15	x	x	16	25	X	x	19	X	14
11	19	x	9	11	28	29	11	7	10	5
12	x	17	1	14	7	9	4	12	2	X
13	24	22	8	3	21	30	22	17	1	13
14	10	2	20	18	29	23	X	27	28	X
15	5	30	13	25	4	16	21	x	15	8
16	12	33	32	23	27	26	18	x	X	20