Table 1. Effect of fairway rolling frequency on dollar spot infection centers, 2015.

Dollar Spot Infection Centers ^{zy}										
Frequency	3-Aug	17-Aug	24-Aug	26-Aug	31-Aug	10-Sep	17-Sep	25-Sep	2-Oct	AUDPC ^x
0	19 a ^w	27 a	45 a	56 a	51 a	52 a	52 a	38 a	45 a	2635 a
3X	12 ab	16 b	24 b	36 b	33 b	33 b	26 b	22 b	32 b	1593 b
4X	11 ab	14 b	26 b	32 bc	21 b	28 bc	20 bc	21 b	19 c	1368 bc
6X	6 b	8 b	14 b	21 c	17 b	18 c	14 c	15 c	18 c	906 c
<i>P</i> value	*	**	**	***	***	***	***	***	***	***

² All fungicide program treatments were included for analysis (untreated, calendar and threshold programs).

Table 2. Effect of fungicide programs on dollar spot infection centers, 2015.

		Dollar Spot Infection Centers ^{zy}												
Fungicide	14-Jul	19-Jul	27-Jul	3-Aug	10-Aug	17-Aug	24-Aug	26-Aug	31-Aug	10-Sep	17-Sep	25-Sep	2-Oct	AUDPC ^x
Untreated	5 a ^w	11 a	14 a	37 a	35 a	49 a	78 a	89 a	81 a	97 a	82 a	72 a	83 a	4603 a
Calendar	0 b	2 b	0 b	1 b	3 b	0 b	3 b	0 c	1 b	0 b	0 b	0 b	0 b	48 b
Threshold	4 a	4 b	1 b	0 b	0 b	0 b	0 b	21 b	9 b	0 b	0 b	0 b	2 b	225 b
P value	**	**	***	***	***	***	***	***	***	***	***	***	***	***

All fairway rolling frequencies were included in the analysis (0, 3X, 4X and 6X).

^y Number of dollar spot infection centers per plot were reported as the mean of 4 replications.

^x Area under the disease progress curve were reported as a mean of 4 replications.

^w Means followed by the same letter are not significantly different according to Fisher's protected least significant difference test ($\alpha = 0.05$).

Number of dollar spot infection centers per plot were reported as the mean of 4 replications.

^x Area under the disease progress curve were reported as a mean of 4 replications.

w Means followed by the same letter are not significantly different according to Fisher's protected least significant difference test ($\alpha = 0.05$).

Table 3. Effect of fairway rolling frequency on dollar spot infection centers among untreated plots, 2015.

Dollar Spot Infection Centers ^{zy}										_
Frequency	3-Aug	17-Aug	24-Aug	26-Aug	31-Aug	10-Sep	17-Sep	25-Sep	2-Oct	AUDPC ^x
0	58 a ^w	81 a	126 a	130 a	133 a	154 a	153 a	114 a	133 a	7424 a
3X	36 b	49 b	67 bc	86 b	88 b	99 b	77 b	64 b	92 b	4470 b
4X	33 b	43 bc	76 b	85 b	57 b	84 bc	59 bc	64 b	56 c	3927 bc
6X	19 c	24 c	41 c	55 c	48 b	53 c	41 c	46 b	53 c	2592 c
P value	*	**	**	***	***	***	***	***	***	***

Only data from the untreated plots was used in this analysis.
 Number of dollar spot infection centers per plot were reported as the mean of 4 replications.
 Area under the disease progress curve were reported as a mean of 4 replications.
 W Means followed by the same letter are not significantly different according to Fisher's protected least significant difference test (α = 0.05).

Table 4. Effect of fairway rolling frequency on dollar spot infection centers, 2016.

Dollar Spot Infection Centers ^{zy}														
Frequency	8-Jun	16-Jun	22-Jun	28-Jun	13-Jul	21-Jul	27-Jul	4-Aug	15-Aug	24-Aug	1-Sept	7-Sept	14-Sept	AUDPC ^x
0	7	15	10	9	16	30	28	50	57	58	67 b	82	73	3589
3X	2	9	6	4	22	53	55	78	89	87	110 a	118	94	5283
4X	3	5	4	3	8	20	24	35	60	45	53 b	65	66	2782
6X	2	4	2	2	12	31	28	53	53	56	58 b	74	63	3170
P value	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*	NS	NS	NS

² All fungicide program treatments were included for analysis (untreated, calendar and threshold programs).

Table 5. Effect of fungicide programs on dollar spot infection centers, 2016.

		<u> </u>												
		Dollar Spot Infection Centers ^{zy}												
Fungicide	8-Jun	16-Jun	22-Jun	28-Jun	13-Jul	21-Jul	27-Jul	4-Aug	15-Aug	24-Aug	1-Sept	7-Sep	14-Oct	AUDPC ^x
Untreated	5	11	6	5	43 a ^w	100 a	101 a	161 a	169 a	183 a	206 a	243 a	223 a	10456 a
Calendar	1	0	0	0	0 b	0 b	0 b	0 b	0 b	0 b	0 b	0 b	0 b	17 b
Threshold	6	14	11	8	0 b	0 b	0 b	1 b	26 b	1 b	10 b	12 b	2 b	646 b
P value	NS	NS	NS	NS	***	***	***	***	***	***	***	***	***	***

All fairway rolling frequencies were included in the analysis (0, 3X, 4X and 6X).

Number of dollar spot infection centers per plot were reported as the mean of 4 replications.

^x Area under the disease progress curve were reported as a mean of 4 replications.

^w Means followed by the same letter are not significantly different according to Fisher's protected least significant difference test ($\alpha = 0.05$).

Number of dollar spot infection centers per plot were reported as the mean of 4 replications.

^x Area under the disease progress curve were reported as a mean of 4 replications.

w Means followed by the same letter are not significantly different according to Fisher's protected least significant difference test ($\alpha = 0.05$).

Supplemental Table 6. Effect of fairway rolling frequency on soil bulk density, turf quality and organic matter (thatch), 2016.

	Bulk Density (g/cm ³) ^z	7	urf Quality ^y	Organic Matter (Thatch) ^x
Frequency	2-Nov	27-Jul	7 Sept	14 Sept
0	1.32	5.1 b ^w	4.6	14.4%
3X	1.38	5.8 a	5.5	15.2%
4X	1.34	5.9 a	5.3	15.0%
6X	1.42	6.1 a	5.5	14.1%
<i>P</i> value	NS	*	NS	NS

Only the threshold fungicide program treatment was included for analysis. Bulk density is reported as a mean of 4 replications.

Turf quality was visually assessed where 1=dead, 6=acceptable, 9=dark green.

Soil organic matter in the top inch of the soil was determined to examine the effect of rolling on thatch degradation.

Wheans followed by the same letter are not significantly different according to Fisher's protected least significant difference test (α = 0.05).