

Tour Stop #4b: North Central Region Creeping Bentgrass Evaluation

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Ten universities from the North Central Region initiated a creeping bentgrass putting green and fairway evaluation trial in the autumn of 2008. The research objectives were to 1) Determine the susceptibility of creeping bentgrass cultivars to dollar spot; 2) Determine the suitability of creeping bentgrass cultivars under putting green and fairway conditions when fungicide applications are scheduled based on threshold level of dollar spot incidence. Each cultivar was seeded in Sept. 2008 at 1 lb./1000 ft.². The site was fertilized at 1 lb P/1000 ft.² at the time of seeding using a 1-2-1 fertilizer. Each site received 0.5 lb N/1000 ft.² biweekly during the remaining growing season in 2008.

Starting in 2009, irrigation is applied daily to return 100% ET_p. Turfgrass is mowed 6 days a week at .155. Nitrogen is applied at 1 lb. N/1000 ft.²/month using urea as the N source. Beginning in the spring of 2009, the turfgrasses received different fungicide treatments in a *split block* design with three replicates.

The fungicide treatments are:

1. Untreated Control
2. Fungicide program: Emerald (0.18 oz product/1,000 ft.²) + Daconil Ultrex (3.2 oz product/1000 ft.²)
 - 2.1. The fungicide mix will be first applied preventively in May or June at first sign of dollar spot infection centers in all replications of application susceptible cultivar, Crenshaw. Thereafter dollar spot suppression will be conducted curatively when Crenshaw plots have ≥ 20% of dollar spot on the putting green.
 - 2.2. Fungicides will be mixed with water at 2 gallons/1000 ft.²
 - 2.3. TeeJet XR flat fan nozzle type.

Creeping Bentgrass Treatment List

1. L-93	6. Kingpin	11. Penn A-4	16. MacKenzie	21. Declaration
2. T-1	7. Crenshaw	12. Crystal Bluelinks	17. Tyee	22. LS-44
3. Alpha	8. Imperial	13. Penn A-1	18. SR1150	23. Bengal
4. Putter	9. Century	14. Penn G-6	19. Memorial	
5. Southshore	10. Penncross	15. 007	20. Independence	

North Central Region Creeping Bentgrass Putting Green Evaluation (Established 2008)

No Fungicide	Putter	Tyee	Alpha	Independence	SR1150	Penn G-6	Crenshaw	MacKenzie	Century	Penn A-4	Declaration	LS-44	L-93
Fungicide													

Fungicide					Rep 3 starts								
No Fungicide	MacKenzie	Declaration	OO7	Bengal	OO7	Crystal BlueLinks	Bengal	Penn A-1	Southshore	Memorial	T-1	Imperial	Kingpin
													Penncross

No Fungicide	Crystal BlueLinks	Crenshaw	SR1150	Century	Penncross	Kingpin	Alpha	T-1	Penn G-6	Southshore	L-93	Tyee	Imperial
Fungicide													Memorial

Fungicide										Rep 2 starts			
No Fungicide	OO7	MacKenzie	Tyee	SR1150	Memorial	Independence	Declaration	LS-44	Bengal	Penn A-4	LS-44	Independence	Putter
													Penn A-1

Fungicide	Rep 1 starts												
No Fungicide	L-93	T-1	Alpha	Putter	Southshore	Kingpin	Crenshaw	Imperial	Century	Penncross	Penn A-4	Crystal BlueLinks	Penn A-1
													Penn G-6