

National Turfgrass Evaluation Program (NTEP) 2008 Bentgrass Green Test

2011 Progress Report

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The National Turfgrass Evaluation Program sponsors variety trials throughout the continental U. S. and Canada using uniform testing procedures. The objective is to evaluate and identify cultivars (varieties) that perform best under the different and diverse environmental conditions (climatic, soil, and cultural) associated with the many NTEP locations cooperating as part of the program. NTEP publishes annual reports that summarize the results collected at the 25 or more NTEP sites such as the University of Massachusetts Amherst. The NTEP data is made available on line at www.ntep.org and is used by turfgrass specialist and practitioners to help recommend and select varieties that grow best at their specific location. NTEP evaluates turfgrasses adapted to both cool-season (northern latitudes) and warm-season (southern latitudes) areas.

There are 19 varieties represented including 17 creeping and 2 velvet bentgrass entries with each entry replicated three times. All plots were seeded on November 12, 2008. Border areas were planted to Penncross creeping bentgrass (River Road side) while Memorial creeping bentgrass was planted to border areas away from River Road. Monthly turfgrass quality ratings along with disease and wear tolerance ratings are reported in Table 1. The 2008 Bentgrass Green Test will be maintained under cultural conditions as noted below. Entry numbers, variety names, and plot-plans are included with this report.

The 2008 NTEP Bentgrass Greens Test will be evaluated over the next 3 growing seasons (until 2013).

Cultural Practices:

- **Mowing height:** 1/8 inches with walk-behind reel mower, daily mowing.
- **Fertility:** 4.5 lbs N/1,000 ft²/year.
- **Irrigation:** to prevent stress.
- **Fungicides:** preventative.
- **Root zone:** USGA sand.



Recommendation:

Turf Quality

The following commercially available entries have performed well in overall turf quality providing acceptable quality (≥ 6.0 , Table 1) based on 2-yr averages: Creeping bentgrass- Alpha, Authority, Penn A-1, Pinn-Up, Proclamation, T-1, V8, and Villa velvet bentgrass.

Dollar Spot Disease Resistance

The following commercially available entries exhibited acceptable dollar spot resistance (≤ 5.0 dollar spot infection centers per plot, Table 1): Creeping bentgrass-Declaration, L-93, Penn A-1, Penn A-2, Penncross, Proclamation, and Villa velvet bentgrass.

The following commercially available entries exhibited unacceptable dollar spot resistance (≥ 10 dollar spot infection centers per plot, Table 1): T-1 creeping bentgrass.

Wear Tolerance

The following commercially available entries exhibited acceptable tolerance to wear (≥ 6.0 , 1 to 9 scale, 9=no injury, Table 1): Alpha, Pinn-Up, Proclamation, and T-1 creeping bentgrass and Villa velvet bentgrass.

The following commercially available entries exhibited unacceptable tolerance to wear (≤ 5.5 , 1 to 9 scale, 9=no injury, Table 1): Creeping bentgrass-Declaration, L-93, Penn A-1, Penncross, and SR-7200 velvet bentgrass.



2008 NATIONAL BENTGRASS (PUTTING GREEN) TEST

Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	Penncross	creeping	Standard entry
2	Penn A-1	creeping	Standard entry
3	SR 7200	velvet	Standard entry
4	Declaration	creeping	Standard entry
5	LTP-FEC	creeping	Lebanon Seaboard Corp.
6	L-93	creeping	Standard entry
7	T-1	creeping	Jacklin Seed by Simplot
8	Alpha	creeping	Jacklin Seed by Simplot
9	Penn A-2	creeping	John Deere Landscapes
10	MVS-AP-101	creeping	Mountain View Seeds
11	A08-TDN2	creeping	The Scotts Company
12	AFM	creeping	John Deere Landscapes
13	Authority	creeping	John Deere Landscapes
14	SRP-1GMC	creeping	Seed Research of Oregon
15	SRP-1BLTR3	creeping	Seed Research of Oregon
16	PST-OJO	creeping	Penncross Bentgrass Assoc.
17	V8	creeping	Jacklin Seed by Simplot
18	HTM	creeping	ProSeeds Marketing
19	Villa	velvet	Standard entry



2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-GREEN VARIETY TRIAL

Block C

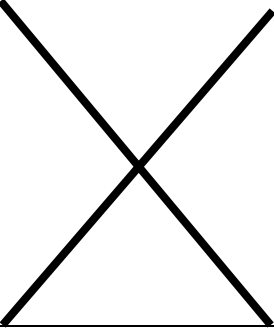
Block B

Block A

RIVER ROAD



2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-GREEN VARIETY TRIAL

BLOCK A		PLOT PLAN		ENTRY NUMBER	
16	4	6	8	19	
3	1	9	17	7	
15	13	12	10	5	
11	18	14	2		

River Road Turf Farm Fence



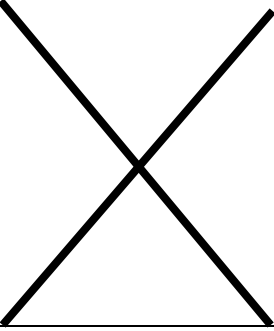
2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-GREEN VARIETY TRIAL

BLOCK B		PLOT PLAN		ENTRY NUMBER
5	9	19	12	1
14	11	18	13	2
17	6	7	3	15
4	16	10	8	6 ft 3 ft

River Road Turf Farm Fence



2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-GREEN VARIETY TRIAL

BLOCK C		PLOT PLAN		ENTRY NUMBER
2	13	15	6	8
10	9	19	5	16
11	1	18	14	7
17	12	3	4	

River Road Turf Farm Fence

Table 1. 2008 NTEP Bentgrass Greens Test: 2009 to 2010 turfgrass quality, wear and disease data.

No.	Entry Name	Species	Turf Quality				Disease				Wear Tolerance							
			2009		2010		Average		Y. Patch %		D. Spot Count		June		Sept		Oct.	
			1 to 9, 9=highest		1 to 9, 9=highest		Average		%		Count		1 to 9, 9=highest		1 to 9, 9=highest		Average	
16	PST-OJO	creeping	7.07	7.11	7.09	20.0	17.3	7.00	7.67	6.33	7.00	6.33	7.00					
19	Villa*	velvet	6.80	6.93	6.86	6.7	0.0	6.00	8.00	6.00	6.00	6.00	6.67					
11	A08-TDN2	creeping	6.40	6.67	6.53	21.7	8.3	7.00	6.67	5.67	6.44	6.44						
7	T-1*	creeping	6.53	6.33	6.43	20.0	10.0	6.67	6.33	6.33	6.44	6.44						
8	Alpha*	creeping	6.53	6.22	6.38	13.3	7.7	6.67	6.33	6.67	6.56	6.56						
5	Proclamation*	creeping	6.47	6.22	6.34	20.0	4.7	5.67	6.67	5.67	6.00	6.00						
17	V8*	creeping	5.93	6.63	6.28	16.7	7.0	5.67	6.67	5.00	5.78	5.78						
10	MVS-AP-101	creeping	6.20	6.33	6.27	18.3	5.0	5.67	6.33	5.00	5.67	5.67						
14	SRP-1GMC	creeping	6.33	6.04	6.19	26.7	3.3	5.67	6.67	6.00	6.11	6.11						
13	Authority*	creeping	6.07	6.19	6.13	16.7	5.7	6.00	6.00	5.33	5.78	5.78						
2	Penn A-1*	creeping	6.33	5.81	6.07	11.7	2.3	6.67	5.67	5.33	5.89	5.89						
18	Pinn-Up*	creeping	5.87	6.15	6.01	16.7	6.0	6.67	6.33	5.67	6.22	6.22						
4	Declaration*	creeping	5.60	6.07	5.84	13.3	1.7	5.67	5.67	5.00	5.44	5.44						
15	SRP-1BLTR3	creeping	5.80	5.85	5.83	13.3	11.0	6.00	6.00	6.33	6.11	6.11						
12	AFM	creeping	5.67	5.70	5.69	13.3	5.3	5.67	6.33	5.67	5.89	5.89						
3	SR 7200*	velvet	5.87	5.15	5.51	5.0	0.0	3.67	5.67	4.67	4.67	4.67						
6	L-93*	creeping	5.60	5.15	5.37	20.0	4.3	5.00	5.33	5.67	5.33	5.33						
9	Penn A-2*	creeping	5.27	5.22	5.24	26.7	5.0	5.33	5.00	5.00	5.11	5.11						
1	Penncross*	creeping	5.27	4.19	4.73	31.7	1.0	4.67	4.33	4.33	4.44	4.44						
	LSD (0.05)		0.54	0.50	0.48	10.2	3.6	0.93	0.95	1.18	0.70	0.70						

*Commercially available in 2011.