

# National Turfgrass Evaluation Program (NTEP) 2008 Bentgrass Fairway Variety Trial

## 2011 Progress Report

J. S. Ebdon, Ph. D., and W. T. Griffin

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. The NTEP data is made available on line at [www.ntep.org](http://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 23 varieties represented including 17 creeping and 6 colonial bentgrass entries with each entry replicated three times. The plots were seeded on November 5, 2008. Border areas were planted to T-1 creeping bentgrass. Monthly turfgrass quality ratings along with disease and wear tolerance ratings are reported in Table 2. The 2008 Bentgrass Fairway 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 Fairway Test will be evaluated over the next 3 growing seasons (until 2013).

### Cultural Practices:

- **Mowing height:** 3/8 inches with reel mower, three times per week.
- **Fertility:** 4 lbs N/1,000 ft<sup>2</sup>/year
- **Irrigation:** none.
- **Fungicides:** none.



## **Recommendation:**

### **Turf Quality**

The following commercially available entries have performed well in overall turf quality providing acceptable quality ( $\geq 6.0$ , Table 1) based on 2-yr averages: Creeping bentgrass-007, Authority, Barracuda, CY-2, L-93, Pinn-Up, Proclamation, T-1.

### **Dollar Spot Disease Resistance**

The following commercially available entries exhibited good dollar spot resistance ( $\leq 5.0$  dollar spot infection centers per plot, Table 1): Creeping bentgrass-Declaration, Benchmark.

The following commercially available entries exhibited unacceptable dollar spot resistance ( $\geq 10$  dollar spot infection centers per plot, Table 1): 007, Authority, Crystal Bluelinks, CY-2, L-93, Memorial, Penncross, Princeville, and T-1 creeping bentgrass and Greentime, Tiger II colonial bentgrass.

### **Wear Tolerance**

The following commercially available entries exhibited acceptable tolerance to wear ( $\geq 6.0$ , 1 to 9 scale, 9=no injury, Table 1): Barracuda, Pinn-Up, Proclamation, and T-1 creeping bentgrass.

The following commercially available entries exhibited unacceptable tolerance to wear ( $\leq 5.5$ , 1 to 9 scale, 9=no injury, Table 1): Creeping bentgrass-007, Authority, Declaration, L-93, Memorial, Penncross, Princeville.



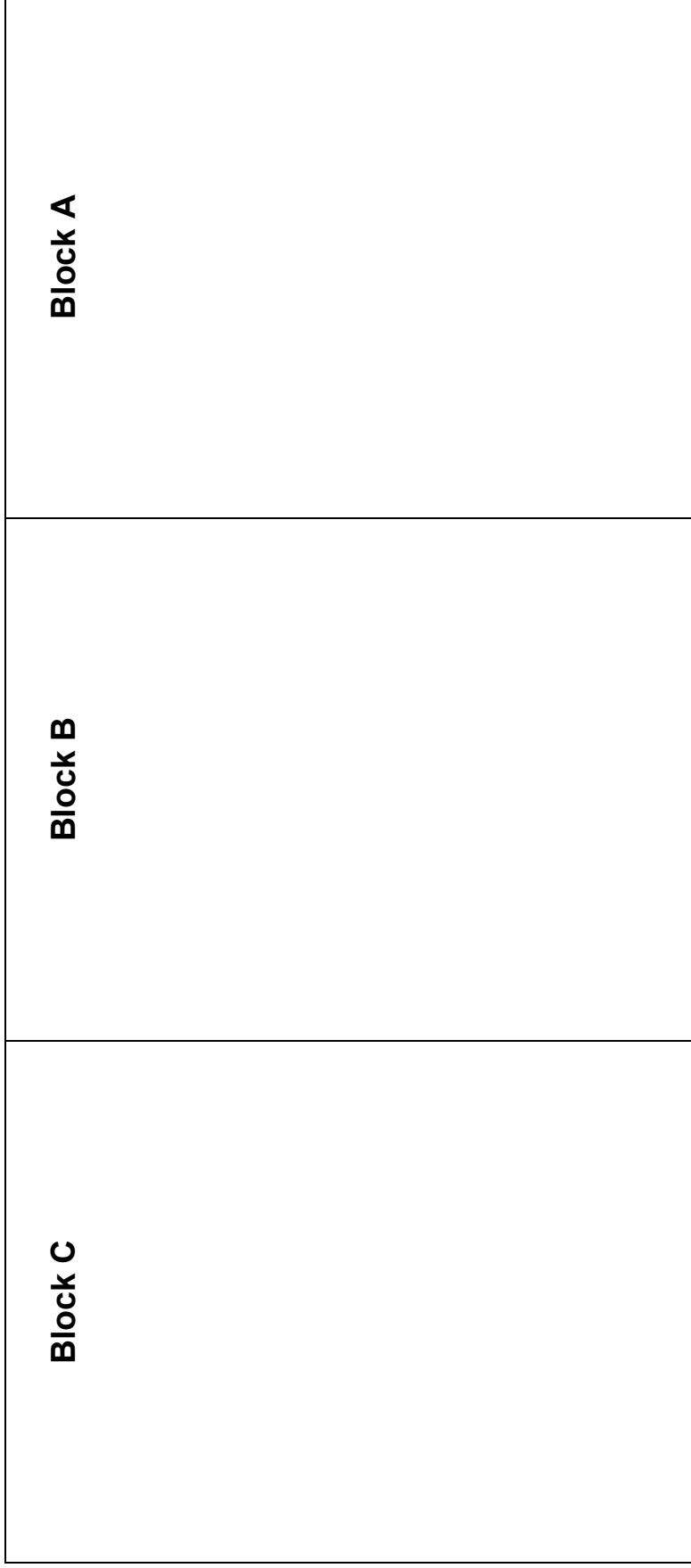
## 2008 NATIONAL BENTGRASS (FAIRWAY/TEE) TEST

### Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	Penncross	creeping	Standard entry
2	Crystal Bluelinks	creeping	Standard entry
3	Benchmark DSR	creeping	Turf Merchants
4	Declaration	creeping	Lebanon Seaboard Corp.
5	LTP-FEC	creeping	Lebanon Seaboard Corp.
6	L-93	creeping	Standard entry
7	T-1	creeping	Jacklin Seed by Simplot
8	Authority	creeping	John Deere Landscapes
9	CY-2	creeping	Snow Brand Seed USA
10	MVS-Ap-101	creeping	Mountain View Seeds
11	Memorial	creeping	The Scotts Company
12	A08-EBM	colonial	The Scotts Company
13	A08-TDN2	creeping	The Scotts Company
14	A08-FT12	colonial	The Scotts Company
15	SRP-1WM	creeping	Seed Research of Oregon
16	007	creeping	Seed Research of Oregon
17	PST-OJD	creeping	Pure-Seed Testing
18	PST-R9D7	colonial	Pure-Seed Testing
19	Princeville	creeping	John Deere Landscapes
20	HTM	creeping	ProSeeds Marketing
21	BCD	colonial	ProSeeds Marketing
22	Tiger II	colonial	Standard entry
23	Greentime	colonial	Standard entry

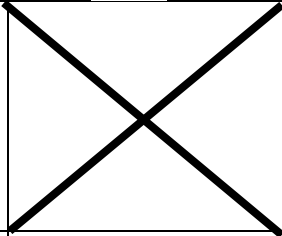


**2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-FAIRWAY VARIETY TRIAL**



**River Road Turf Farm Fence** →

**2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-FAIRWAY VARIETY TRIAL**

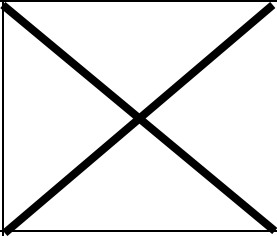
<b>BLOCK A</b>	<b>15</b>	<b>18</b>	<b>PLOT PLAN</b>	<b>10</b>	<b>ENTRY NUMBER</b>	<b>3</b>
13			17			
2	6	11	9	22		1
23	21	8	12	5		4
20	19	14	16	7		

**6 ft**

**3 ft**

**RIVER ROAD**

**2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-FAIRWAY VARIETY TRIAL**

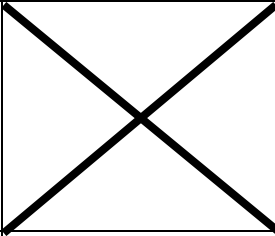
<b>BLOCK B</b>		<b>PLOT PLAN</b>		<b>ENTRY NUMBER</b>	
20	10	7	18	16	8
9	3	17	14	21	1
2	19	22	23	15	11
12	6	5	4	13	

**6 ft**

**3 ft**

**RIVER ROAD**

**2008 NATIONAL TURFGRASS EVALUATION PROGRAM BENTGRASS-FAIRWAY VARIETY TRIAL**

<b>BLOCK C</b>		<b>PLOT PLAN</b>		<b>ENTRY NUMBER</b>	
16	22	21	14	15	9
10	13	3	7	1	12
23	18	2	4	19	5
8	20	17	6	11	

**6 ft**

**3 ft**

**RIVER ROAD**



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

No	Entry Name	Species	Turf Quality			2010 D. Spot			Wear Tolerance		
			2009	2010	Average	May	Sept.	Average	June	Sept.	Average
			1 to 9, 9=highest	1 to 9, 9=highest	Count	Count	1 to 9, 9=highest	1 to 9, 9=highest	1 to 9, 9=highest	1 to 9, 9=highest	
16	007+	creeping	6.78	5.89	6.33	2.7	19.0	10.8	5.33	5.33	5.33
20	Pinn Up+	creeping	6.67	5.67	6.17	3.7	13.0	8.3	5.67	6.33	6.00
9	CY-2+	creeping	6.33	5.96	6.15	1.7	21.0	11.3	5.00	6.67	5.83
8	Authority+	creeping	6.50	5.78	6.14	8.7	26.0	17.3	5.00	5.67	5.33
7	T-1+	creeping	6.22	5.96	6.09	16.0	27.0	21.5	6.67	6.33	6.50
17	PST-OJD	creeping	6.22	5.96	6.09	8.0	26.7	17.3	6.67	6.33	6.50
5	Proclamation+	creeping	6.33	5.85	6.09	1.0	15.0	8.0	5.67	6.67	6.17
10	Barracuda+	creeping	6.39	5.74	6.06	1.7	13.3	7.5	6.67	5.67	6.17
14	A08-FT12	colonial	6.56	5.52	6.04	5.0	17.3	11.2	6.00	5.00	5.50
21	BCD	colonial	6.39	5.67	6.03	3.3	17.0	10.2	6.67	5.00	5.83
6	L-93+	creeping	6.67	5.33	6.00	2.7	19.0	10.8	5.00	6.00	5.50
23	Greentime+	colonial	6.72	5.22	5.97	20.3	22.0	21.2	6.67	4.67	5.67
4	Declaration+	creeping	6.39	5.52	5.95	1.0	5.3	3.2	5.00	5.00	5.00
13	A08-TDN2	creeping	6.11	5.78	5.94	1.0	13.7	7.3	5.33	6.33	5.83
2	Crystal Blueinks+	creeping	5.94	5.89	5.92	4.0	18.7	11.3	5.67	6.00	5.83
22	Tiger II+	colonial	6.44	5.33	5.89	28.0	16.0	22.0	6.67	4.67	5.67
15	SRP-1WM	creeping	5.89	5.85	5.87	7.0	5.7	6.3	6.00	5.67	5.83
3	Benchmark+	creeping	6.06	5.41	5.73	1.0	9.7	5.3	6.00	5.33	5.67
11	Memorial+	creeping	6.06	5.33	5.69	5.3	18.3	11.8	5.00	5.67	5.33
12	A08-EBM	colonial	6.11	5.22	5.67	3.0	8.7	5.8	6.67	4.67	5.67
19	Princeville+	creeping	6.50	4.78	5.64	9.3	25.7	17.5	4.33	5.33	4.83
18	PST-R9D7	colonial	6.22	4.96	5.59	4.3	6.3	5.3	5.33	4.33	4.83
1	Penncross+	creeping	5.78	4.63	5.20	5.3	24.7	15.0	5.00	5.00	5.00
	LSD (0.05)		1.03	0.40	0.54	11.3	12.9	9.2	0.86	1.09	0.77
	Creeping ave		6.28	5.61	5.95	4.7	17.8	11.2	5.33	5.84	5.69
	Colonial ave		6.41	5.32	5.86	10.7	14.6	12.6	6.33	4.72	5.53
	Colonial vs. creeping		NS	***	NS	**	NS	NS	***	***	NS

\*\*\*, \*\*, \*, † Significant at  $P \leq 0.001$ , 0.01, 0.05, and 0.10 levels, respectively.

+Commercially available in 2011.