

# National Turfgrass Evaluation Program (NTEP) 2010 Perennial Ryegrass Variety Trial

## 2013 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. 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.

The 2010 NTEP Perennial Ryegrass Test was seeded from October 12 to 18, 2010. There are 88 varieties represented in the test including 3 replications for each entry (cultivar) for a grand total of 264 plots. Turfgrass quality (TQ) ratings (1 to 9 scale, 9=best) is taken throughout the growing season along with wear tolerance, color and density ratings. Data is presented in Table 1. All data is ordered according to TQ from highest to lowest. Wear tolerance ratings increased with TQ and density while TQ ratings increased with density. Mach I and Rinova are the only commercially available entries that provided acceptable TQ while none of the entries that were acceptable in wear tolerance are commercially available.

### Acceptable TQ ( $\geq 6.0$ )

CST, IS-PR 492, IS-PR 463, IS-PR 491, PPG-PR 121, PPG-PR 138, PPG-PR-140, PPG-PR 164, PSRX-3701, RAD-PR55R, Rinovo, Sienna, and SRX-4RHD.

### Acceptable wear tolerance ( $\geq 6.0$ )

APR 2036, BAR Lp 10970, DLF LG-3022, GO-637, IS-PR 463, IS-PR 479, IS-PR 491, IS-PR 492, Mach I, PPG-PR 121, PST-2AG4, and 2NJK.

### Cultural Practices:

- **Mowing height:** 0.5 inches with reel mower, 3 mowings per week.
- **Fertility:** 3.5 lbs N/1,000 ft<sup>2</sup>/year.
- **Irrigation:** to prevent drought stress.
- **Fungicides:** preventative.



## 2010 NATIONAL PERENNIAL RYEGRASS TEST ENTRIES AND SPONSORS

- |  |  |
|--|--|
| 1 Rinovo Semillas Fito                         | 46 ISG-31 Integrated Seeds                       |
| 2 CL 11601 The Scotts Company                  | 47 A-35 Allied Seeds                             |
| 3 PR 909 Turf Merchants, Inc.                  | 48 CS-PR66 Columbia Seeds                        |
| 4 CL 11701 Turf Merchants, Inc.                | 49 CST Columbia Seeds                            |
| 5 APR 2036 Brett Young Seeds Ltd.              | 50 JR-178 Jacklin Seed by Simplot®               |
| 6 Linn Standard Entry                          | 51 JR-192 Jacklin Seed by Simplot®               |
| 7 Uno Standard Entry                           | 52 PSRX-3701 Pickseed USA & Seed Research of OR  |
| 8 DLF LGD-3026 DLF International Seeds         | 53 Pick 10401 Pickseed USA, Inc.                 |
| 9 DLF LGD-3022 DLF International Seeds         | 54 Mach I Standard Entry                         |
| 10 PSRX-S84 Pickseed USA & Seed Research of OR | 55 RAD-PR62 Radix Research                       |
| 11 SRX-4RHD Seed Research of Oregon            | 56 RAD-PR55R Lewis Seed                          |
| 12 P02 Novel AG                                | 57 IS-PR 409 DLF International Seeds             |
| 13 S85 Novel AG                                | 58 IS-PR 463 DLF International Seeds             |
| 14 LTP-RAE Lebanon Turf Products               | 59 IS-PR 469 DLF International Seeds             |
| 15 Allante Ledebor Seed                        | 60 IS-PR 479 DLF International Seeds             |
| 16 Insight Ledebor Seed                        | 61 IS-PR 487 DLF International Seeds             |
| 17 Sienna Ledebor Seed                         | 62 IS-PR 488 DLF International Seeds             |
| 18 Brightstar SLT Standard Entry               | 63 IS-PR 489 DLF International Seeds             |
| 19 CL 307 Pennington Seed Company              | 64 IS-PR 491 DLF International Seeds             |
| 21 APR 2038 Smith Seed Services                | 66 DLF LGT 4182 DLF International Seeds          |
| 22 PPG-PR 121 Peak Plant Genetics              | 67 ISG-30 Integrated Seeds                       |
| 23 PPG-PR 128 Integra Turf, Inc.               | 68 PST-204D Landmark Native Seeds                |
| 24 PPG-PR 133 Mountain View Seeds              | 69 PST-2NKM Landmark Native Seeds                |
| 25 PPG-PR 134 Mountain View Seeds              | 70 PST-2MG7 Pure-Seed Testing                    |
| 27 PPG-PR 136 Lewis Seed                       | 71 PST-2TQL Pure-Seed Testing                    |
| 28 PPG-PR 137 Columbia Seeds                   | 73 PST-2AG4 Brett Young Seeds Ltd.               |
| 29 PPG-PR 138 Ampac Seed Company               | 74 PST-2MAGS Turf Merchants, Inc.                |
| 30 PPG-PR 140 Mountain View Seeds              | 75 PST-2K9 The Scotts Company                    |
| 31 PPG-PR 142 Peak Plant Genetics              | 76 PST-2BNS Pure-Seed Testing                    |
| 32 PPG-PR 143 Columbia Seeds                   | 77 PST-2ACR Pure-Seed Testing                    |
| 33 PPG-PR 164 Mountain View Seeds              | 78 Rio Vista Burlington Seeds                    |
| 34 PPG-PR 165 Peak Plant Genetics              | 79 CL-301 Burlington Seeds                       |
| 35 BAR Lp 10969 Barenbrug USA                  | 80 Bonneville Burlington Seeds                   |
| 36 BAR Lp 10972 Barenbrug USA                  | 81 PSRX-4CAGL Pickseed USA & Seed Research of OR |
| 37 BAR Lp 10970 Barenbrug USA                  | 82 GO-DHS Grassland Oregon                       |
| 38 2NJK Barenbrug USA                          | 83 GO-PR60 Grassland Oregon                      |
| 39 BAR Lp 7608 Barenbrug USA                   | 84 GM3 Landmark Native Seeds                     |
| 40 Pinnacle Standard Entry                     | 85 PRX-4GM1 Pickseed USA & Seed Research of OR   |
| 41 APR 2445 ProSeeds Marketing                 | 86 SRX-4M5H Seed Research of Oregon              |
| 42 Fiesta 4 Standard Entry                     | 87 Pick 4DFHM Pickseed USA, Inc.                 |
| 43 GO-G37 Grassland Oregon                     | 88 Palmer V Standard Entry                       |
| 44 CS-20 Columbia Seeds                        |  |

RIVER ROAD

TURF- FARM FENCE

2010 NATIONAL TURFGRASS EVALUATION PROGRAM PERENNIAL RYEGRASS VARIETY TRIAL

<p>Block C</p>	<p>Block B</p>	<p>Block A</p>
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**2010 NATIONAL TURFGRASS EVALUATION PROGRAM PERENNIAL RYEGRASS VARIETY TRIAL**

<b>BLOCK A</b>		<b>PLOT PLAN</b>										<b>ENTRY NUMBER</b>					<b>PLOTS 3 by 6 ft</b>			
		68	54	71	46	4	40	60	17	5	8	31	87	25	16	72	82	20		
78																				
27		32	1	51	43	3	24	36	26	18	50	42	35	59	53	21	63	69		
75		11	7	33	14	84	38	47	76	34	85	55	15	81	49	37	13	74		
64		29	45	88	52	28	83	22	44	79	2	41	70	58	9	6	65	30		
57		80	10	73	23	61	77	12	56	66	39	67	48	62	19	86				

**2010 NATIONAL TURFGRASS EVALUATION PROGRAM PERENNIAL RYEGRASS VARIETY TRIAL**

<b>BLOCK B</b>		<b>PLOT PLAN</b>										<b>ENTRY NUMBER</b>				<b>PLOTS 3 by 6 ft</b>		
		49	58	70	22	52	71	40	57	29	47	42	66	79	24	4	30	77
43																		
6		65	21	51	15	87	48	23	69	45	3	78	81	13	20	25	44	82
56		36	11	74	84	1	16	26	86	73	32	5	9	61	55	17	67	33
75		18	63	2	28	59	64	62	46	12	31	34	54	68	60	38	10	85
35		88	41	14	72	80	83	7	39	19	76	50	53	8	37	27		

**2010 NATIONAL TURFGRASS EVALUATION PROGRAM PERENNIAL RYEGRASS VARIETY TRIAL**

<b>BLOCK C</b>		<b>PLOT PLAN</b>										<b>ENTRY NUMBER</b>				<b>PLOTS 3 by 6 ft</b>		
		8	11	29	80	33	56	74	48	22	1	18	46	30	41	40	63	61
78																		
5		20	32	88	69	14	28	27	6	71	59	16	19	53	39	4	55	75
52		23	2	82	58	17	85	83	37	47	50	64	43	13	12	7	26	10
86		51	68	81	36	49	79	67	34	76	31	73	60	24	62	35	65	87
21		45	72	44	57	38	42	9	70	77	54	66	15	25	3	84		