

## NTEP Perennial Ryegrass Study

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### Introduction

The National Turfgrass Evaluation Program (NTEP) conducts trials throughout the United States on turfgrass adaptation. This trial was established in September 2016 as part of the NTEP program. It contains 114 perennial ryegrass cultivars.

### Materials and Methods

The individual plots measure 4 ft x 4 ft and the study was replicated three times. Data on color were taken in July and quality data were collected in May through October 2019.

Ratings are based on a scale of 9 = best to 1 = lowest. A rating of 6 or above is considered to be commercially acceptable. A premerge was used in the spring of 2019 for crabgrass prevention.

The mowing height is 3 in. The trial is non-irrigated. It receives 2 to 3 lb of N/1,000 ft<sup>2</sup> each season.

### Results and Discussion

Table 1 contains quality ratings for the 2019 season. There were some major differences among cultivars this year. Some are clearly adapted to this environment and others are not.

### Acknowledgements

Appreciation is extended to the NTEP organization for funding to conduct this project.

**Table 1. Color and quality data from the perennial ryegrass trial.**

		Color <sup>2</sup>	Quality <sup>1</sup>						Mean
			May	June	July	Aug	Sept	Oct	
1	21	6	8	7	8	7	7	8	8
2	BSP-17	7	8	8	7	7	7	7	7
3	BWH	7	7	8	7	7	5	6	7
4	BSP-25	7	7	8	7	6	5	7	7
5	Savant	6	6	6	7	6	5	6	6
6	LPB-SD-105	6	6	8	7	5	5	8	7
7	Saguaro	6	6	7	6	4	4	6	6
8	LPB-SD-104	6	8	7	7	6	4	6	6
9	Mensa	6	6	8	7	5	5	6	6
10	LPB-SD-101	6	6	7	7	5	4	5	6
11	LPB-SD-102	7	7	7	7	6	6	6	6
12	LPB-SD-103	7	7	7	7	5	5	6	6
13	DLFPS-236/3540	6	7	7	7	6	6	7	7
14	DLFPS-236/3542	7	8	7	7	6	7	8	7
15	DLFPS-236/3544	7	8	7	7	7	7	8	7
16	Intense	7	7	7	7	6	7	7	7
17	Xcelerator	7	7	7	7	7	7	7	7
18	UF3	7	7	7	7	7	5	7	7
19	JR-123	6	6	7	7	5	4	6	6
20	JR-747	5	7	6	6	4	4	5	5
21	JR-888	6	6	6	6	7	5	6	6
22	DLFPS-236/3541	7	6	6	7	6	6	7	6
23	DLFPS-236/3543	8	8	8	8	7	8	8	8

**Table 1 (continued). Color and quality data from the perennial ryegrass trial.**

		Color <sup>2</sup>	Quality <sup>1</sup>						Mean
			May	June	July	Aug	Sept	Oct	
24	DLFPS-236/3545	7	7	7	7	7	6	7	7
25	Evolve	6	7	6	6	7	4	6	6
26	MRSL-PR16	6	8	8	6	7	6	7	7
27	PL2	8	7	6	7	7	8	8	7
28	MRSL-PR15	7	7	7	6	6	6	6	6
29	SNX	7	7	7	7	5	6	6	6
30	Signet	7	7	7	7	6	7	7	7
31	02BS4	7	7	7	6	7	7	7	7
32	CS-6	6	7	8	7	5	5	5	6
33	DLFPS-236/3556	7	6	7	7	6	6	7	7
34	ASP0116EXT	6	7	8	8	6	5	7	7
35	A-PR15	6	8	7	7	7	6	7	7
36	A-4G	7	7	7	7	7	6	7	7
37	A-6D	6	7	7	6	5	5	5	6
38	NP-3	7	8	8	7	6	6	7	7
39	NP-2	7	8	7	7	7	7	7	7
40	16-Apr	7	7	8	7	7	6	7	7
41	GO-141	7	7	7	6	5	5	6	6
42	GO-142	6	6	6	6	5	5	6	6
43	GO-143	7	6	7	6	5	5	5	6
44	12-Apr	7	7	7	6	6	6	7	7
45	Apr-60	6	7	7	7	6	7	6	7
46	AMP-R1	6	7	8	6	6	5	6	6
47	DLFPS-236/3546	7	8	7	8	7	7	8	7
48	DLFPS-236/3547	8	8	8	8	7	8	8	8
49	DLFPS-236/3548	7	8	8	7	7	6	7	7
50	PR-6-15	7	8	8	8	7	7	8	8
51	DLFPS-236/3550	7	7	8	7	5	7	7	7
52	DLFPS-236/3552	7	7	8	8	7	6	7	7
53	23	7	8	8	7	6	6	7	7
54	FP2	6	8	8	7	6	6	7	7
55	02BS2	7	8	7	6	6	6	7	7
56	RRT	7	7	7	7	7	8	8	7
57	PPG-PR 241	6	7	7	7	6	7	7	7
58	PPG-PR 329	7	7	6	6	7	7	8	7
59	PPG-PR 331	7	7	7	6	7	6	6	7
60	Derby Xtreme	7	7	7	6	5	5	6	6
61	PPG-PR 339	6	7	7	7	6	6	6	6
62	PPG-PR 343	7	7	8	6	7	7	7	7
63	PPG-PR 360	6	7	7	7	6	7	8	7
64	PPG-PR 367	7	7	7	7	6	6	7	7
65	PPG-PR 370	7	7	8	7	7	8	7	7
66	PPG-PR 371	7	6	8	8	6	7	7	7
67	PPG-PR 372	6	7	8	7	6	7	7	7
68	PPG-PR 385	7	8	8	6	7	7	7	7
69	PPG-PR 419	7	7	7	7	6	6	7	7
70	PPG-PR 420	7	8	8	8	6	6	8	7
71	PPG-PR 421	7	7	8	8	6	8	8	7
72	PPG-PR 422	7	8	7	6	7	6	8	7
73	PPG-PR 423	7	8	7	8	6	7	8	7
74	PPG-PR 424	7	8	7	6	7	7	8	7
75	Karma	6	6	7	6	6	5	6	6
76	SR 4650	6	8	7	6	6	6	6	6

**Table 1 (continued). Color and quality data from the perennial ryegrass trial.**

		Color <sup>2</sup>	Quality <sup>1</sup>					Mean	
			May	June	July	Aug	Sept		Oct
77	DLFPS-236/3538	8	8	8	8	8	8	7	8
78	Grand Slam GLD	7	7	8	8	7	6	7	7
79	LTP-FCB	8	7	8	8	7	7	8	7
80	BAR LP 6117	6	7	7	7	6	7	7	7
81	BAR LP 6131	6	7	8	7	6	6	7	7
82	BAR LP 6159	7	7	7	7	6	7	7	7
83	BAR LP 6233	7	8	7	7	8	7	7	7
84	PST-2FOXY	7	7	8	7	7	6	6	7
85	PST-2CRP	8	7	8	7	7	6	8	7
86	PST-2EGAD	7	8	7	6	6	5	8	7
87	PST-2FIND	7	8	7	6	7	6	7	7
88	PST-2GTD	8	8	7	7	8	6	8	7
89	PST-2BDT	7	7	8	7	6	5	7	7
90	PST-2MAY	7	8	8	7	7	6	7	7
91	PST-2GAL	7	7	8	8	6	7	6	7
92	PST-2PDA	7	7	7	7	7	7	7	7
93	PST-2A2	7	7	7	7	7	5	7	7
94	DLFPS-236/3553	7	7	7	7	6	6	8	7
95	DLFPS-236/3554	7	8	8	8	7	8	8	8
96	PR-5-16	7	7	8	8	6	7	7	7
97	BAR LP 6158	7	7	7	7	7	7	7	7
98	BAR LP 6162	6	6	6	7	6	6	6	6
99	BAR LP 6164	7	8	8	7	7	7	7	7
100	BAR LP 6165	7	7	7	8	9	8	7	8
101	Overdrive 5G	7	8	8	7	6	6	8	7
102	02BS1	6	8	7	7	6	5	8	7
103	CPN	6	7	6	7	7	7	7	7
104	JR-197	7	8	6	7	7	7	8	7
105	DLFPS-238/3014	7	7	7	7	8	7	7	7
106	RAD-PR 103	7	7	7	7	6	7	7	7
107	RAD-PR 112	8	8	8	8	6	7	6	7
108	UMPQUA	7	8	7	7	8	7	9	8
109	Seabiscuit	7	8	7	8	7	7	9	7
110	Man O'War	7	8	7	7	6	7	8	7
111	Pharaoh	7	8	7	8	6	7	8	7
112	Allstar III	6	6	7	7	5	4	6	6
113	Brightstar SLT	7	7	7	6	5	6	7	6
114	Linn	5	5	5	6	3	4	5	5
	LSD 0.05 <sup>3</sup>	1	2	2	1	1	1	2	1

<sup>1</sup>Quality rated on a 1 to 9 scale with 9 = best quality, 1 = worst quality, and 6 = lowest acceptable quality.

<sup>2</sup>Color rated on a 1 to 9 scale with 9 = dark, 1 = light green.

<sup>3</sup>LSD = Least significant difference at the 95% confidence level.