

Perennial Ryegrass Study - Established 1994

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This trial began in the fall of 1994 with the establishment of 96 cultivars of perennial ryegrass at the Iowa State University Horticulture Research Station. The study was established on an irrigated area that was maintained at a 2-inch mowing height and fertilized with 3 to 4 lb N/1000 ft²/yr. The area receives preemergence herbicide in the spring and was treated with a broadleaf herbicide in September of 1994.

Cultivars were evaluated for turf quality each month of the growing season. Visual quality was based on a 9 to 1 scale: 9 = best quality, 6 = lowest acceptable quality, and 1 = poorest quality. The values listed under each month in Table 1 are the averages of ratings made on three replicated plots for the three studies. Yearly means of data from each month are listed in the last column. The cultivars are listed in descending order of average quality. Data on genetic color (Gcolor), leaf texture (Ltex), and greenup (grnup) ratings also are included.

Table 1. The 1996 quality and other ratings for the national perennial ryegrass study established in 1994.

Cultivar	Gcolor	Grnup	Ltex	May	June	July	Aug	Sept	Oct	Mean
1 J1706	6.7	5.3	4.3	5.7	7.3	8.0	7.3	7.3	7.7	7.2
2 Bar USA 94-II	7.3	6.0	4.7	5.7	7.0	7.7	7.3	7.3	7.3	7.1
3 Omega3 (ZPS-2DR-94)	7.0	6.0	3.7	5.7	6.7	7.7	7.0	7.7	7.3	7.0
4 Vivid	7.0	6.0	4.3	5.3	6.3	8.3	7.0	7.3	7.7	7.0
5 Line Drive (MB 47)	7.7	5.7	4.3	5.3	7.0	6.7	7.3	7.7	7.3	6.9
6 Excel (MB 1-5)	7.7	7.0	4.7	6.0	6.3	8.3	6.7	6.3	7.0	6.8
7 PST-2R3	7.0	5.3	4.3	5.3	6.7	7.7	7.3	7.0	7.0	6.8
8 RPBD	7.0	6.7	4.3	5.0	7.0	6.7	7.0	7.3	7.7	6.8
9 SR 4010 (SRX 4010)	6.3	6.0	4.0	5.7	6.3	7.3	6.7	7.3	7.3	6.8
10 TMI-EXFLP94	6.7	6.0	5.0	5.7	6.7	7.3	7.0	6.7	7.3	6.8
11 Accent	6.3	5.0	5.0	4.7	6.7	7.3	6.7	7.3	7.3	6.7
12 Express	7.0	6.7	4.0	6.0	7.0	7.0	5.7	7.0	7.3	6.7
13 ISI-R2	6.3	6.7	4.3	5.7	7.3	6.0	6.3	7.3	7.7	6.7
14 KOOS 93-6	6.7	5.3	4.3	5.3	6.7	7.0	6.3	7.3	7.7	6.7
15 LRF-94-MPRH	7.3	5.3	3.7	5.3	6.3	6.7	7.7	7.0	7.3	6.7
16 MB 45	7.7	5.7	3.7	4.7	7.0	8.0	7.3	6.3	6.7	6.7
17 MED5071	6.3	6.0	4.3	5.3	7.3	6.7	6.3	7.7	7.0	6.7
18 Nobility	7.3	5.0	4.7	5.3	6.7	7.7	6.3	7.0	7.3	6.7
19 SR 4400 (SRX 4400)	6.7	5.3	4.0	4.7	7.0	7.3	6.7	7.3	7.3	6.7
20 Wind Star (PST-28M)	6.7	5.7	4.3	5.3	6.7	7.3	6.7	7.3	7.0	6.7
21 WVPB 92-4	6.3	5.3	4.3	5.0	6.7	7.3	6.3	7.3	7.3	6.7
22 Dancer	7.3	4.0	4.7	5.0	6.7	7.0	7.0	6.7	7.0	6.6
23 Divine	7.0	6.0	3.7	5.0	7.0	8.0	6.0	6.3	7.0	6.6
24 Elf	6.0	6.3	4.3	5.0	7.0	7.3	7.0	6.3	6.7	6.6
25 Laredo	6.3	6.0	4.3	5.3	6.3	6.7	6.7	7.3	7.0	6.6

	Cultivar	Gcolor	Grnup	Ltex	May	June	July	Aug	Sept	Oct	Mean
26	Manhattan 3	6.3	6.3	4.3	5.0	6.0	7.0	6.7	7.3	7.3	6.6
27	Pennant II (MB 42)	8.0	4.7	4.0	4.7	6.7	7.3	6.7	7.3	7.0	6.6
28	PST-GH-94	7.7	4.7	3.7	4.7	6.7	7.3	6.7	6.7	7.3	6.6
29	ZPS-2NV	6.3	5.0	4.0	5.0	7.0	6.3	7.0	7.3	7.0	6.6
30	Advantage	7.7	4.7	4.3	5.0	7.0	6.3	6.3	7.0	7.3	6.5
31	Cutter	6.3	6.0	3.7	5.7	7.0	6.3	6.7	6.3	7.0	6.5
32	DLP 1305	6.7	5.3	3.7	5.3	6.7	6.3	6.7	7.0	7.0	6.5
33	MB 44	6.7	4.7	3.3	4.7	6.3	7.7	7.0	6.3	7.0	6.5
34	Panther (ZPS-PR1)	6.7	5.7	4.7	5.0	7.0	6.7	6.7	6.7	7.0	6.5
35	PS-D-9	6.7	4.7	4.3	5.0	6.7	6.7	6.7	6.7	7.3	6.5
36	Saturn II (ZPS-2ST)	7.0	6.3	4.3	5.3	7.0	6.7	6.3	7.0	6.7	6.5
37	Wizard (MB 41)	7.0	6.3	3.7	5.7	7.0	6.3	6.0	7.0	7.0	6.5
38	WVPB-93-KFK	6.0	5.7	4.3	5.0	6.7	6.3	6.7	7.0	7.3	6.5
39	Academy (PC-93-1)	6.3	6.0	5.0	5.3	6.7	7.0	6.0	6.7	7.0	6.4
40	Achiever	6.0	6.7	3.7	5.3	6.0	7.0	6.3	6.7	7.0	6.4
41	BAR ER 5813	6.7	5.0	3.7	4.7	6.7	6.7	6.3	7.0	7.0	6.4
42	ISI-MHB	7.0	5.0	3.7	4.7	7.0	6.7	6.3	7.0	6.7	6.4
43	MVF-4-1	7.0	5.7	4.0	5.0	6.0	7.0	6.0	7.0	7.7	6.4
44	PICK LP 102-92	7.7	5.7	4.0	4.7	7.0	7.3	6.7	6.3	6.7	6.4
45	PST-2DLM	7.7	5.7	3.7	4.7	7.0	6.3	6.7	7.0	6.7	6.4
46	SR 4200	6.3	5.7	4.7	5.3	6.3	6.3	6.3	7.0	7.0	6.4
47	APR 106	6.7	5.0	5.0	5.0	6.3	6.0	6.3	7.0	7.0	6.3
48	APR 124	6.7	5.7	4.7	5.7	6.3	6.3	6.3	6.3	7.0	6.3
49	Blazer III (PICK 928)	6.7	5.0	4.0	4.7	6.7	7.0	5.7	7.0	6.7	6.3
50	Calypso II	7.0	6.0	4.0	5.0	7.0	6.3	6.3	6.3	6.7	6.3
51	Edge	6.7	5.7	4.7	5.0	6.3	7.0	6.0	6.3	7.3	6.3
52	Majesty (MB 43)	7.0	5.0	4.3	4.7	7.0	6.7	6.0	6.7	7.0	6.3
53	PSI-E-1	6.3	5.7	4.0	4.7	6.3	7.0	6.7	6.3	7.0	6.3
54	PST-2CB	7.3	5.7	4.0	5.0	6.3	6.3	6.3	6.7	7.0	6.3
55	Roadrunner (PST-2ET)	6.7	6.3	4.3	4.7	6.3	7.0	6.7	6.0	7.0	6.3
56	WX3-93	7.0	5.0	4.3	4.7	7.0	7.0	6.3	6.3	6.3	6.3
57	Assure	6.3	6.0	4.3	5.0	6.3	6.7	6.0	6.3	6.7	6.2
58	CAS-LP23	7.3	5.3	4.0	5.0	6.0	6.7	6.0	6.7	6.7	6.2
59	Esquire	7.0	5.7	4.3	5.0	7.0	7.3	5.7	5.7	6.7	6.2
60	KOOS 93-3	6.3	5.3	4.3	5.3	6.3	6.0	6.0	6.7	7.0	6.2
61	Legacy II (Lesco-Twf)	7.3	5.3	5.0	5.3	6.3	6.7	6.0	6.3	6.7	6.2
62	Omni	6.3	5.3	4.0	4.3	6.3	7.0	5.7	7.0	6.7	6.2
63	Precision	6.3	4.7	4.3	5.0	6.7	6.3	6.3	6.7	6.3	6.2
64	Prizm	6.7	5.3	4.7	4.3	6.0	6.3	6.3	7.0	7.0	6.2

	Cultivar	Gcolor	Grnup	Ltex	May	June	July	Aug	Sept	Oct	Mean
65	Quickstart	6.7	5.7	4.3	4.3	6.3	7.0	6.0	6.3	7.3	6.2
66	Riviera II	7.0	5.7	4.7	4.3	6.7	6.7	6.7	6.3	6.3	6.2
67	Stallion Select	7.0	5.7	4.0	5.3	6.0	6.7	6.0	6.7	6.7	6.5
68	Williamsburg	6.0	6.0	4.7	5.3	6.3	6.7	5.7	6.7	6.7	6.2
69	WVPB-PR-C-2	7.0	6.3	4.7	5.3	5.7	6.3	6.3	6.7	6.7	6.2
70	Brightstar	7.3	5.7	4.7	4.7	6.3	6.7	6.3	6.3	6.3	6.1
71	Night Hawk	7.3	6.0	4.3	4.7	6.3	6.3	5.7	6.7	6.7	6.1
72	Passport (PST-2FF)	7.3	6.0	4.3	4.7	6.3	6.7	5.7	6.7	6.7	6.1
73	PICK PR 84-91	7.3	4.7	3.7	5.0	6.3	6.7	6.0	6.3	6.3	6.0
74	Saturn	6.7	4.7	4.7	4.7	6.7	6.0	5.7	6.7	6.7	6.1
75	PST-2FE	7.0	6.3	3.7	4.0	6.3	6.7	6.3	6.3	6.3	6.0
76	APR 066	6.3	5.0	4.3	4.3	6.0	6.0	6.0	6.7	6.7	5.9
77	APR 131	7.0	5.7	4.0	5.0	6.0	5.7	6.0	6.0	6.7	5.9
78	DSV NA 9402	6.0	4.3	4.3	4.3	5.7	5.7	6.0	7.0	7.0	5.9
79	Imagine	7.3	5.7	4.0	4.3	6.7	6.3	5.7	6.3	6.0	5.9
80	J-1703	6.3	5.7	4.3	4.0	6.3	6.3	5.7	6.3	6.7	5.9
81	Top Hat	7.3	6.3	3.7	4.0	6.7	6.3	6.3	5.7	6.3	5.9
82	Citation III (PST-2dgr)	6.7	5.0	3.3	3.7	6.3	6.0	6.0	6.3	6.7	5.8
83	Morning Star	7.0	4.3	4.3	4.7	6.0	5.3	5.3	6.3	7.0	5.8
84	Navajo	7.0	6.0	4.7	4.3	5.7	6.0	7.0	5.7	6.0	5.8
85	Pegasus	6.7	6.0	4.3	5.0	5.3	6.0	6.0	6.0	6.7	5.8
86	DSV NA 9401	6.0	3.7	4.7	4.3	6.0	5.0	4.3	6.7	7.0	5.6
87	Figaro	7.0	4.3	3.7	4.3	5.0	5.3	6.0	6.3	6.7	5.6
88	LRF-94-C8	7.7	5.3	3.0	4.0	5.7	5.7	5.7	6.3	6.0	5.6
89	Nine-O-Nine	7.7	4.7	4.3	4.0	4.7	6.3	6.0	6.0	6.0	5.5
90	Pennfine	7.0	5.3	2.3	4.7	6.3	5.3	4.7	5.7	6.3	5.5
91	LRF-94-B6	7.7	6.0	3.0	4.0	5.3	6.0	5.3	5.7	6.3	5.4
92	WX3-91	6.3	6.3	4.0	3.3	5.3	6.0	5.7	6.0	6.3	5.4
93	Brightstar II (PST-2M3)	7.7	5.3	2.7	3.0	5.7	5.7	5.7	5.7	6.0	5.3
94	MB 46	7.7	6.0	4.0	3.3	5.0	5.7	5.3	5.3	6.3	5.2
95	LRF-94-C7	7.7	6.3	3.0	3.7	5.7	5.7	5.7	5.0	5.0	5.1
96	Linn	5.7	3.7	2.0	3.0	4.3	4.0	4.0	5.3	5.3	4.3
	LSD _(0.05)	1.4	1.9	2.3	2.1	2.0	1.7	1.2	1.7	2.2	1.0

Gcolor (Genetic color): 9 = dark green and 1 = light green. Ltex (Leaf textrue): 9 = fine and 1 = coarse. Grnup (Greenup): 9 = best and 1 = poorest greenup.

Quality based on a 9 to 1 scale: 9 = best quality, 6 = lowest acceptable quality, and 1 = poorest quality.