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R = 137615

2004 Perennial Ryegrass Cultivar Trial-2007 DATA

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This was the third full year of the trial that began in the fall of 2004 with the establishment of 134 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 received herbicide treatments as necessary.

Visual quality was evaluated monthly in 2007 from April through Oct. (Table 1). The values listed under each month in Table 1 are the means of visual quality ratings made on three replicated plots. Visual quality ratings were based on a scale of 9 to 1, with 9 = best quality, 6 = lowest acceptable quality, and 1 = worst quality. The yearly average of the seven months of data for each cultivar was calculated and is listed in the last column (Mean). The first cultivar listed in Table 1 had the highest average visual quality rating for the entire 2007 season. The cultivars are listed in descending order by average quality. The last row states the LSD (least significant difference), which is a statistical measurement of how widely the data in each column must vary before they are considered to be different from one another. Data for genetic color (Gencolor) and leaf texture (Leaftex) were also collected in June 2007. Genetic color was rated using a 9 to 1 scale, with 9 = dark and 1 = light green. Leaf texture was assessed with a 9 to 1 scale, with 9 = fine and 1 = coarse texture.

Table 1. 2007 visual quality, genetic color, and leaf texture ratings for the 2004 National Perennial Ryegrass Study

NAME	GENCOLOR	LEAFTEX	APR	QUALITY							MEAN
				MAY	JUN	JUL	AUG	SEP	OCT		
PARAGON GLR	6.3	3.7	6.0	7.0	6.7	5.3	7.3	6.7	5.7	6.4	
ALL*STAR 3 (IS-PR 274)	7.0	4.3	6.0	6.7	5.7	5.0	7.3	7.0	6.7	6.3	
AF	6.7	4.0	6.3	6.0	6.3	5.7	6.7	6.7	6.0	6.2	
DP1	6.7	3.3	6.0	6.7	6.0	5.3	7.3	6.7	5.7	6.2	
TR47	7.7	3.0	6.0	7.3	6.3	5.7	6.7	6.3	5.3	6.2	
WIND DANCE 2 (PWDR)	7.7	4.3	6.0	6.7	6.3	5.7	6.7	6.0	5.3	6.1	
AMAZING GS (IS-PR 276)	7.0	4.3	5.7	6.3	6.0	6.0	6.7	6.0	5.3	6.0	
BUENA VISTA	7.0	4.0	5.3	7.0	6.3	6.0	6.0	6.0	5.0	6.0	
DERBY XTREME (IS-PR 268)	7.3	4.0	5.0	6.0	6.3	6.0	7.0	6.0	5.7	6.0	
MMW	6.3	3.3	6.0	6.0	5.3	5.0	6.7	6.3	6.3	6.0	
PST-2LAN	5.7	4.0	5.7	6.0	6.0	6.0	7.0	6.3	5.0	6.0	
ASP6004 (EXS54)	7.3	3.7	5.7	6.3	6.0	5.7	6.7	5.7	5.0	5.9	
BAR LP 4317	5.3	6.0	5.3	6.0	6.7	6.3	5.7	6.0	5.0	5.9	
BRIGHTSTAR SLT	5.0	4.7	7.0	6.3	5.7	5.0	6.3	5.7	5.0	5.9	
D04-11T	7.0	4.0	5.3	6.0	6.3	6.0	6.3	5.7	5.3	5.9	
D04-UP	6.0	3.3	5.0	6.7	6.0	5.0	6.3	6.3	5.7	5.9	
DP 17-9788	5.7	5.7	5.7	7.0	6.3	5.3	6.0	5.7	5.3	5.9	
LPR 02203	3.0	6.0	6.0	6.0	6.7	6.0	6.0	5.3	5.0	5.9	
MONTEREY 3 (JR-408)	6.3	4.0	5.7	6.7	6.7	5.7	6.0	5.7	5.0	5.9	
PALMER IV	6.7	4.3	5.7	5.7	6.0	5.3	7.3	6.0	5.0	5.9	
RNS	7.0	4.0	5.3	6.3	6.3	5.7	6.0	6.0	5.3	5.9	
SR 4600 (SRX 4SP)	7.3	3.3	6.7	6.0	6.7	5.0	5.7	5.7	5.3	5.9	
VB77	7.0	4.0	6.0	7.0	5.7	4.7	6.0	6.7	5.3	5.9	
CABO II (IS-PR 233)	7.7	3.7	5.7	6.7	6.0	5.3	6.3	5.3	5.0	5.8	
D04-1667	6.0	5.7	5.7	6.0	5.7	5.3	6.7	5.7	5.3	5.8	
DART (APR 1663)	6.7	3.7	6.0	6.0	6.3	5.7	6.0	5.3	5.0	5.8	
EXACTA II GLSR (LTP-611-GLSR)	6.7	3.7	5.7	6.3	5.3	4.7	6.3	6.0	6.0	5.8	
KEYSTONE 2 (IS-PR 312)	6.3	4.3	5.3	6.0	6.0	5.3	6.7	5.7	5.3	5.8	
NEXUS XR (SNR)	7.7	3.0	4.7	7.0	6.7	5.3	6.0	6.0	5.0	5.8	
APPLE GL (AAZ-B104)	7.0	3.0	4.7	5.7	6.3	5.0	6.7	6.3	5.3	5.7	
APR 1648	8.3	4.3	5.3	5.7	6.3	6.0	6.3	5.3	5.0	5.7	
APR 1670	5.3	4.3	6.0	5.3	6.0	5.7	6.0	6.0	5.0	5.7	
ASP6006 (LPFG)	8.0	3.3	5.3	6.7	6.0	4.7	6.0	6.0	5.0	5.7	
BAR LP 4920	6.0	5.7	6.3	6.3	5.7	5.0	5.7	6.0	5.0	5.7	
GPR	7.3	3.0	5.7	6.7	6.0	5.0	6.3	5.3	4.7	5.7	
PALACE (IS-PR 273)	7.0	3.7	6.3	6.0	6.0	5.3	6.0	5.3	5.0	5.7	
PANTHER	3.7	5.7	6.0	6.3	6.0	5.7	5.3	5.7	5.0	5.7	
PIZZAZZ	5.3	4.0	6.3	6.3	5.7	4.7	5.3	6.0	5.3	5.7	
PREMIER	3.0	6.7	7.0	5.0	6.3	5.7	5.3	6.0	4.3	5.7	
RAD-PR8	6.3	4.0	5.0	6.0	6.0	5.7	6.3	5.7	5.0	5.7	
VB99	7.3	3.7	6.0	5.7	6.0	5.3	6.3	5.7	4.7	5.7	
04-BRE	6.0	4.0	6.3	6.3	5.7	4.3	5.7	5.3	5.3	5.6	
EDGE II (AC2)	6.7	4.0	5.0	6.0	6.3	5.3	5.7	6.0	5.0	5.6	
FUSION	7.3	3.7	4.7	5.7	5.7	5.7	7.0	5.7	5.0	5.6	
GOALKEEPER II (JR-114)	6.3	4.7	5.3	6.0	6.3	5.7	5.7	5.3	5.0	5.6	
MANHATTAN 5 GLR (PST-2AM)	6.3	4.0	5.0	6.0	5.7	5.3	6.3	6.0	5.0	5.6	
PROTEGE GLR	6.7	4.0	5.0	6.0	6.0	5.3	5.7	5.7	5.3	5.6	
PST-2AG4	6.7	3.3	5.7	5.7	6.0	5.3	6.0	5.7	5.0	5.6	
QUICKSILVER	7.0	5.0	5.0	5.3	6.0	4.7	6.7	6.0	5.3	5.6	
REGAL 5 (IS-PR 271)	7.0	4.0	5.0	6.0	6.0	5.3	6.0	6.0	5.0	5.6	
REPELL GLS	6.3	3.3	5.0	6.0	6.0	5.0	6.3	6.0	5.0	5.6	
SILVER DOLLAR	6.3	3.7	6.0	5.7	5.7	5.3	6.0	5.7	5.0	5.6	
SRX 4682	4.3	4.3	5.3	5.7	6.0	6.0	6.0	5.3	5.0	5.6	
TOP GUN II (JR-324)	6.7	4.7	5.7	6.0	5.7	5.3	6.0	5.7	4.7	5.6	
04-BEN	5.7	4.3	5.3	5.7	5.7	4.7	6.0	5.7	5.3	5.5	
CADDIESHACK II (JR-163)	7.0	4.7	4.3	5.0	6.0	6.0	6.7	5.7	4.7	5.5	
CITATION FORE	5.3	5.0	5.0	5.7	6.0	5.7	6.0	5.3	4.7	5.5	
DCM	6.3	3.7	5.0	6.3	5.7	5.3	5.7	5.3	5.0	5.5	

GL-2	6.3	3.3	5.0	6.0	5.7	5.3	6.3	5.3	5.0	5.5
HARRIER (SRX 4UP3)	6.0	3.7	5.3	5.7	5.7	4.7	6.0	6.0	5.0	5.5
LINE DRIVE GLS (APR 1797)	6.0	3.7	5.7	5.7	5.7	5.0	6.0	5.3	5.0	5.5
PENTIUM	5.3	4.7	5.0	5.3	5.7	5.7	6.3	5.7	4.7	5.5
PREMIER II	5.7	4.7	5.7	6.0	5.7	5.0	6.0	5.3	4.7	5.5
PST-2MNG	5.7	5.0	5.3	5.3	6.0	5.7	6.3	5.3	4.7	5.5
SECRETARIAT II GLSR (LTP-101-GLSR)	6.7	4.0	5.0	5.3	5.7	6.0	6.0	5.7	5.0	5.5
ASP6001 (RTS)	8.0	4.3	5.0	6.3	5.7	5.0	6.0	5.3	4.7	5.4
ASP6002 (BPR)	7.3	3.7	4.7	6.0	6.0	5.0	5.3	5.7	5.0	5.4
BARLENNIUM	6.0	4.3	5.3	5.7	6.0	5.0	5.7	5.3	5.0	5.4
CHARISMATIC II GLSR (LTP-PG-GLSR)	6.0	3.7	5.0	5.3	5.3	5.3	6.0	5.7	5.0	5.4
D04-LP05	6.3	3.7	5.3	5.7	6.0	5.0	5.7	5.0	5.0	5.4
E-99	5.7	4.3	5.3	5.3	5.7	5.3	6.0	5.3	5.0	5.4
LA QUINTA (JR-255)	7.3	2.7	5.0	6.0	5.7	5.0	6.0	5.3	5.0	5.4
NEXUS XD (SP4)	7.7	3.7	5.0	6.0	6.0	4.7	5.7	5.7	5.0	5.4
PHENOM (APR 1660)	6.3	4.7	5.3	5.0	5.7	5.3	6.3	5.3	5.0	5.4
PST-217	6.0	4.0	5.0	5.7	6.0	5.0	6.0	5.0	5.0	5.4
1G SQUARED (APR 1664)	6.7	5.0	5.3	6.0	5.3	5.0	5.7	5.3	4.7	5.3
ACCENT II (JR-119)	6.3	4.3	4.7	5.7	6.0	5.3	5.7	5.0	4.7	5.3
DELAWARE XL (PICK 01-2)	6.7	4.0	4.7	6.0	6.0	5.0	5.3	5.0	5.0	5.3
DP 17-9499	6.7	5.0	4.3	5.3	6.0	5.3	5.7	5.3	5.0	5.3
GRAY STAR (PST-2LGL)	6.3	4.3	4.0	5.7	6.0	5.0	5.7	5.7	5.0	5.3
MACH I	7.0	4.3	4.7	5.7	6.0	5.0	5.3	5.3	5.0	5.3
OVERDRIVE	6.3	3.7	5.3	5.7	6.0	4.7	5.3	5.0	5.0	5.3
PANTHER GLS	5.7	5.0	5.3	5.3	5.7	5.7	5.3	5.0	4.7	5.3
PINNACLE II	7.3	4.0	5.3	5.7	6.3	5.0	5.7	4.3	5.0	5.3
PLEASURE SUPREME (PM 103)	6.3	3.3	5.3	6.0	5.3	5.0	5.3	5.3	5.0	5.3
SRX 4692	6.7	4.3	5.0	5.7	6.0	5.3	5.7	4.7	4.7	5.3
ASP6003 (TRS)	7.3	4.0	4.3	5.7	5.7	4.7	5.7	5.3	5.0	5.2
CUTTER II (PM 101)	7.0	4.3	5.0	6.0	5.0	4.3	6.0	5.3	5.0	5.2
FIESTA 4 (PICK F4)	7.3	3.7	5.0	6.0	5.3	4.7	5.7	5.0	4.7	5.2
GRAND SLAM 2 (PST-2GSM)	6.0	3.7	4.3	5.7	6.0	5.3	5.3	5.0	4.7	5.2
INSPIRE	6.0	4.0	4.3	5.3	6.0	5.3	5.3	5.3	5.0	5.2
KOKOMO II (IS-PR 235)	6.7	3.0	4.7	5.7	5.7	4.7	5.7	5.3	5.0	5.2
PINNACLE	2.0	6.7	5.3	4.7	6.0	5.3	5.3	5.7	4.3	5.2
PRESIDIO (CNV)	6.0	4.0	5.3	5.7	5.0	4.3	6.0	5.3	5.0	5.2
REVENGE GLX (JR-348)	6.7	3.3	5.0	5.3	5.3	5.0	5.3	5.3	5.0	5.2
STELLAR GL (IS-PR 236)	6.7	3.3	5.3	5.7	5.3	5.0	5.7	5.0	4.7	5.2
AFFINITY	2.7	5.7	5.3	5.0	6.3	5.0	4.7	5.0	4.3	5.1
ATTRIBUTE (IS-PR 270)	6.7	3.7	4.0	5.3	6.0	5.7	5.0	4.7	5.0	5.1
CALYPSO 3 (MS2)	7.0	4.3	5.0	5.3	5.7	4.3	5.7	5.3	4.7	5.1
HEADSTART 2	7.3	4.3	5.0	5.7	5.3	4.3	5.3	5.0	5.0	5.1
HOMERUN (RG3P)	7.0	3.0	4.3	5.3	5.3	4.7	6.0	5.3	5.0	5.1
L44	7.7	3.3	4.7	6.3	5.3	4.3	5.7	5.0	4.7	5.1
PM 102	7.7	3.0	4.7	5.3	5.3	4.7	5.7	5.3	4.7	5.1
PST-2BLK	6.0	5.0	5.3	5.0	5.0	4.7	5.7	5.3	4.7	5.1
DASHER 3 (PICK RB-1)	6.3	4.0	4.0	5.0	5.3	4.7	5.7	6.0	4.7	5.0
ES45	7.3	3.3	4.7	5.3	5.3	4.7	5.3	5.3	4.7	5.0
FIREBOLT (PRG HS-01-09)	7.3	3.3	4.0	5.0	5.7	5.0	5.3	5.3	5.0	5.0
PRIMARY (IS-PR 269)	6.0	3.7	4.0	5.3	6.0	5.0	5.7	4.7	4.7	5.0
ZOOM (LCK)	6.7	4.7	4.3	5.3	5.3	4.7	5.0	5.3	5.0	5.0
HALO (KN42)	7.0	3.0	4.3	5.0	5.0	4.7	5.3	5.3	4.7	4.9
PS-2	6.3	4.3	3.7	5.0	5.7	5.0	5.0	4.7	4.3	4.8
GALATTI (DP 17-9502)	6.3	4.3	4.3	5.7	5.0	4.3	4.7	4.7	4.3	4.7
PALMER III	5.3	4.7	4.3	5.0	5.0	4.7	4.7	5.0	4.3	4.7
SUNSHINE 2	7.0	4.0	3.7	5.3	5.7	4.3	5.7	4.3	4.0	4.7

ASP6005 (AJM)	7.7	4.0	4.0	5.3	5.0	4.0	4.7	5.0	4.0	4.6
BAR LP 4420	6.7	4.0	4.0	5.3	5.3	4.0	4.7	4.7	4.3	4.6
LINN	1.0	1.0	7.0	3.0	4.3	4.7	4.3	5.0	4.0	4.6
PIANIST (DP 17-9505)	5.3	4.3	3.7	5.0	4.7	3.7	5.3	5.0	4.7	4.6
PICK 02-R	7.7	3.0	4.0	5.0	5.0	3.7	5.3	4.3	4.7	4.6
LSD	1.1	1.5	2.1	2.9	2.5	1.6	1.7	2.0	1.0	1.3