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R=166843

2004 Perennial Ryegrass Cultivar Trial-2008 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 2008 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 2008 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 2008. 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.

NAME	GENCOLOR	GREENUP	LEAFTEX	WINTKILL	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
AF	6.7	8.0	7.3	25.7	4.3	5.3	6.0	5.3	6.0	6.3	6.0	5.6
DP1	7.3	8.0	6.7	29.3	4.0	5.0	6.0	5.7	5.7	6.3	6.0	5.5
DERBY XTREME (IS-PR 268)	6.3	7.7	6.0	33.3	3.7	5.0	6.0	5.0	5.3	6.7	5.7	5.3
PST-2AG4	6.3	7.3	6.0	25.7	4.7	5.3	5.3	4.3	5.3	6.0	6.0	5.3
RNS	7.0	8.0	7.0	41.0	3.7	4.7	5.7	5.0	6.0	6.0	6.0	5.3
ALLSTAR 3 (IS-PR 274)	6.7	7.7	6.7	37.0	3.3	4.3	5.7	5.0	5.7	6.3	6.3	5.2
APR 1670	6.3	7.7	6.0	29.3	4.7	4.7	5.3	5.0	5.0	6.0	5.0	5.1
DP 17-9788	5.7	7.3	6.7	29.3	3.7	5.0	6.3	5.0	5.0	5.3	5.3	5.1
APR 1648	7.3	7.3	6.7	37.3	3.7	4.3	5.3	4.7	5.7	5.7	5.3	5.0
DEFENDER (D04-UP)	6.0	7.3	5.7	33.3	3.7	4.3	5.0	4.7	5.3	6.0	6.0	5.0
EXACTA II GLSR (LTP-611-GLSR)	6.0	8.0	6.7	37.0	3.3	4.0	5.3	4.3	5.3	6.3	6.3	5.0
FIJI (GPR)	7.3	8.0	5.7	33.3	4.0	4.7	5.0	4.3	5.0	6.0	5.7	5.0
MAJESTY II (VB77)	7.0	8.0	6.7	29.7	4.0	4.7	5.3	4.3	5.0	6.0	5.7	5.0
MANHATTAN 5 GLR (PST-2AM)	6.3	7.3	6.7	37.0	3.7	4.7	5.7	4.3	5.0	6.0	5.3	5.0
PARAGON GLR	6.7	7.7	6.3	40.7	3.7	3.7	5.7	4.7	5.3	6.0	6.0	5.0
PST-2LAN	7.0	7.3	6.0	41.0	4.0	4.3	5.7	5.0	5.0	5.7	5.7	5.0
AMAZING GS (IS-PR 276)	6.7	7.7	6.7	48.3	3.0	4.0	5.0	4.7	5.7	6.3	5.7	4.9
APPLE GL (AAZ-B104)	6.7	7.7	6.3	40.7	3.3	4.0	4.7	4.7	5.3	6.3	6.0	4.9
BRIGHTSTAR SLT	6.3	7.0	6.7	41.0	3.7	4.3	5.3	5.0	5.0	5.7	5.0	4.9
MMW	6.3	8.0	6.0	41.0	3.3	4.0	5.0	4.7	5.0	6.0	6.0	4.9
MONTEREY 3 (JR-408)	8.3	7.7	7.3	40.7	3.3	4.3	5.7	5.0	5.0	5.3	5.3	4.9
PALMER IV	6.3	8.0	6.3	44.7	3.7	4.3	5.0	4.7	5.3	5.7	5.3	4.9
SR 4600 (SRX 4SP)	6.7	7.3	6.3	41.0	3.3	4.0	5.0	4.7	5.3	6.3	5.7	4.9
TRANSFORMER (D04-1667)	6.0	7.3	6.3	48.3	3.3	4.7	5.3	5.0	5.0	6.0	5.0	4.9
UNO (D04-11T)	7.0	7.3	6.3	45.0	3.3	4.3	5.0	4.7	5.3	6.0	5.7	4.9
ATTRIBUTE (IS-PR 270)	6.7	7.7	6.7	40.7	3.7	4.3	5.0	4.0	5.3	5.7	5.3	4.8
BAR LP 4920	6.3	7.3	7.0	33.0	3.7	4.3	5.0	5.0	4.7	5.7	5.3	4.8
GRAND SLAM 2 (PST-2GSM)	6.3	7.0	5.7	37.0	3.3	4.7	5.3	4.7	5.0	5.7	5.0	4.8
LINE DRIVE GLS (APR 1797)	6.0	7.3	5.7	41.0	3.3	4.0	5.0	5.0	5.3	5.3	5.7	4.8
REGAL 5 (IS-PR 271)	6.7	7.3	6.3	44.7	3.7	4.3	4.7	4.3	5.0	5.7	5.7	4.8
BAR LP 4317	6.3	6.7	6.3	48.3	2.7	4.3	5.3	4.7	5.0	5.3	5.7	4.7
KEYSTONE 2 (IS-PR 312)	6.7	7.3	6.7	44.7	3.0	4.0	5.0	4.7	5.0	6.0	5.3	4.7
NEXUS XR (SNR)	7.3	8.0	6.0	37.0	3.3	4.0	5.0	3.7	5.0	6.3	5.7	4.7
PANTHER GLS	5.7	8.0	5.7	37.0	3.3	4.3	5.0	4.7	5.0	5.3	5.0	4.7
PHENOM (APR 1660)	6.0	7.3	6.3	44.7	3.7	4.0	4.3	5.0	4.7	5.7	5.7	4.7
REPELL GLS	6.3	7.0	5.3	37.0	3.3	4.0	5.0	4.7	4.7	5.7	5.7	4.7
RINGER II (04-BEN)	6.3	6.7	6.7	41.0	3.7	4.3	5.0	4.7	5.0	5.3	5.0	4.7
SECRETARIAT II GLSR (LTP-101-GLSR)	6.3	7.3	6.7	52.0	3.3	4.0	4.7	4.3	5.3	5.3	5.7	4.7

TR47	7.3	7.3	5.7	44.7	3.7	4.0	5.0	4.0	5.0	6.0	5.3	4.7
ASP6004 (EXS54)	7.7	8.0	7.0	41.0	3.3	4.0	5.0	4.7	5.0	5.0	5.0	4.6
BREA (04-BRE)	6.3	7.3	6.0	40.7	3.3	4.3	4.7	4.0	4.7	6.0	5.3	4.6
CABO II (IS-PR 233)	7.0	7.7	6.0	37.0	3.3	3.7	4.7	4.0	5.0	6.0	5.3	4.6
CHARISMATIC II GLSR (LTP-PG-GLSR)	6.3	7.3	6.3	33.3	3.7	4.0	5.0	4.3	4.7	5.7	5.0	4.6
DCM	6.0	8.0	6.3	41.0	3.3	4.3	5.3	4.3	4.7	5.7	4.7	4.6
GOALKEEPER II (JR-114)	7.0	7.7	7.0	37.0	3.7	4.3	5.3	4.7	4.3	5.0	5.0	4.6
GRAY STAR (PST-2LGL)	6.7	7.3	5.7	41.0	3.0	4.0	5.3	4.7	4.7	5.0	5.3	4.6
NEXUS XD (SP4)	8.0	7.3	5.7	44.7	3.3	4.0	5.0	4.3	5.0	5.3	5.3	4.6
PINNACLE II	6.3	7.3	7.0	37.0	3.7	4.3	4.7	4.7	4.7	5.3	5.0	4.6
REVENGE GLX (JR-348)	6.0	7.3	6.7	37.0	3.7	4.3	4.7	4.0	5.0	5.3	5.3	4.6
ACCENT II (JR-119)	6.7	7.3	6.0	44.7	3.3	4.0	5.0	4.3	4.7	5.3	5.0	4.5
ASP6006 (LPFG)	7.3	7.7	6.3	40.7	3.7	4.0	4.7	3.7	4.7	5.7	5.3	4.5
BUENA VISTA	6.0	8.0	6.0	44.7	3.0	4.0	5.0	4.3	4.7	5.3	5.3	4.5
CITATION FORE	6.3	7.0	6.0	55.7	3.3	4.0	5.0	4.3	4.7	5.0	5.3	4.5
EDGE II (AC2)	7.3	7.7	6.3	48.7	3.0	4.0	4.7	4.0	5.0	5.7	5.3	4.5
ES45	6.3	8.7	5.0	33.0	4.0	3.7	5.0	3.7	4.7	5.3	5.3	4.5
GL-2	6.0	7.0	6.3	59.7	3.0	3.7	4.7	4.3	5.0	5.7	5.0	4.5
HARRIER (SRX 4UP3)	6.0	7.3	6.3	48.3	3.0	4.0	4.7	4.3	5.0	5.3	5.3	4.5
LPR 02203	4.3	6.7	5.7	44.7	3.0	4.3	5.3	4.7	4.3	4.7	5.0	4.5
MACH I	6.7	7.0	6.7	33.0	4.0	4.0	5.3	4.0	4.7	4.7	5.0	4.5
PENTIUM	5.3	7.0	6.3	37.0	3.7	4.7	5.0	4.0	4.3	5.0	5.0	4.5
PRESIDIO (CNV)	5.7	7.3	5.7	29.7	4.0	4.3	5.0	4.3	4.3	5.0	4.7	4.5
QUICKSILVER	6.3	7.7	5.7	48.7	2.7	4.0	5.0	4.0	5.0	5.7	5.0	4.5
SILVER DOLLAR	6.3	7.3	5.7	37.0	4.0	3.3	5.0	3.7	4.7	5.7	5.3	4.5
STELLAR GL (IS-PR 236)	6.3	7.7	6.3	48.3	3.3	3.7	4.7	4.3	5.0	5.3	5.0	4.5
WIND DANCE 2 (PWDR)	7.0	7.3	5.7	44.7	3.0	4.0	5.0	4.3	4.7	5.3	5.3	4.5
ZOOM (LCK)	6.3	7.7	6.7	44.7	3.3	4.0	4.7	4.0	5.0	5.3	5.0	4.5
1G SQUARED (APR 1664)	6.3	7.3	5.7	44.7	3.0	4.0	4.7	4.3	4.7	5.0	5.0	4.4
ASP6001 (RTS)	6.7	7.0	6.3	41.0	3.3	4.0	5.0	4.0	4.7	5.0	5.0	4.4
DART (APR 1663)	6.0	7.7	6.3	56.0	3.0	4.3	4.7	4.7	4.3	4.7	5.3	4.4
FUSION	6.0	7.0	5.7	44.7	2.7	4.3	4.7	4.3	4.3	5.3	5.3	4.4
KOKOMO II (IS-PR 235)	6.3	7.7	6.0	52.0	3.3	3.7	4.3	3.7	4.7	5.7	5.3	4.4
PALACE (IS-PR 273)	6.3	7.7	5.7	33.3	3.7	4.0	4.3	3.7	4.3	5.7	5.0	4.4
PIZZAZZ	6.0	7.3	6.0	41.0	3.3	4.3	4.7	4.0	4.7	4.7	5.0	4.4
PROTEGE GLR	6.3	7.3	5.7	44.7	3.3	3.7	4.7	4.0	4.7	5.3	5.3	4.4
TOP GUN II (JR-324)	6.7	7.0	6.0	41.0	3.0	4.0	5.0	4.0	4.3	5.7	5.0	4.4
D04-LP05	5.3	7.0	6.3	48.7	3.0	3.3	4.3	4.3	4.7	5.3	5.0	4.3
E-99	5.7	7.0	6.0	45.0	3.0	3.3	4.7	4.0	4.3	5.3	5.3	4.3
GRAY FOX (PST-2MNG)	5.3	7.0	5.7	48.7	3.0	4.3	4.7	4.0	4.7	4.7	4.7	4.3
INSPIRE	5.3	6.7	6.0	48.7	3.3	4.0	4.7	4.0	4.3	5.0	4.7	4.3
PRIMARY (IS-PR 269)	6.0	6.7	6.7	52.3	3.0	3.7	4.3	4.0	4.7	5.3	5.0	4.3
PST-217	6.0	7.3	6.3	40.7	3.0	4.0	4.7	4.0	5.0	4.7	5.0	4.3
SRX 4682	5.3	6.7	5.7	44.7	3.0	4.0	5.0	4.7	4.0	4.7	5.0	4.3
VB99	7.0	7.0	6.0	52.0	3.0	3.3	4.3	4.0	4.7	5.7	5.3	4.3
ASP6002 (BPR)	6.3	7.3	6.3	48.3	3.3	3.7	5.0	3.7	3.7	5.3	5.0	4.2
ASP6003 (TRS)	6.0	8.0	6.0	40.7	3.3	3.7	4.7	3.7	4.3	5.0	5.0	4.2
BARLENNIUM	6.3	6.7	6.3	56.0	2.7	3.0	4.3	4.7	4.7	5.7	4.7	4.2
CUTTER II (PM 101)	7.0	7.7	6.0	41.0	3.0	3.7	4.3	4.0	4.7	5.3	4.7	4.2
DASHER 3 (PICK RB-1)	6.0	7.3	6.0	55.7	2.3	3.3	4.3	3.7	4.7	6.0	5.3	4.2
HALO (KN42)	7.0	7.0	5.7	44.7	3.3	3.3	4.7	3.7	4.3	5.3	4.7	4.2
OVERDRIVE	6.7	7.0	6.0	56.0	2.7	3.7	4.3	3.7	4.3	5.3	5.3	4.2
PREMIER II	5.3	6.7	5.3	44.7	3.0	4.0	4.7	4.3	4.3	4.7	4.7	4.2
PST-2BLK	5.3	8.0	5.3	33.3	3.7	4.0	4.7	3.0	4.3	4.7	5.3	4.2
CADDIESHACK II (JR-163)	6.7	6.3	6.7	56.0	2.3	3.3	4.7	4.0	4.7	5.3	4.7	4.1
FIESTA 4 (PICK F4)	6.7	7.7	6.0	59.7	2.7	3.7	4.3	3.7	4.3	5.3	5.0	4.1
HEADSTART 2	6.7	7.7	6.7	41.0	3.3	3.3	4.3	3.7	4.0	5.3	5.0	4.1
PM 102	7.7	7.7	5.3	44.7	3.0	4.0	4.7	4.0	4.3	4.3	4.3	4.1
AFFINITY	3.7	7.3	5.3	44.7	3.0	4.0	4.7	4.0	4.0	4.0	4.0	4.0
BACCARAT (RAD-PR8)	7.0	7.7	6.0	48.3	2.7	3.0	4.3	3.7	4.3	5.0	5.0	4.0
CALYPSO 3 (MS2)	7.0	7.3	4.3	48.7	3.0	4.0	4.3	3.3	3.7	5.0	4.7	4.0
DELAWARE XL (PICK 01-2)	6.3	7.0	6.0	52.0	3.3	3.3	4.3	3.7	4.3	4.7	4.7	4.0
DP 17-9499	6.0	7.0	6.3	48.7	2.7	3.7	4.3	4.0	4.3	4.7	4.7	4.0
GALATTI (DP 17-9502)	5.3	7.3	4.3	52.3	2.7	3.7	4.3	3.7	4.0	5.0	4.3	4.0

HOMERUN (RG3P)	7.0	7.7	6.0	52.0	2.7	3.3	4.3	4.0	4.3	5.3	4.3	4.0
LA QUINTA (JR-255)	6.3	7.3	5.7	44.7	2.7	3.7	4.3	3.7	4.0	5.0	5.0	4.0
PANTHER	4.7	6.3	6.0	56.0	2.3	3.7	4.0	3.7	4.0	5.0	5.0	4.0
PLEASURE SUPREME (PM 103)	6.0	7.0	5.7	48.3	2.7	3.3	4.0	3.7	4.3	5.3	5.0	4.0
WAYFARER (L44)	6.7	7.3	6.0	48.7	2.7	3.7	4.3	3.3	4.0	5.0	5.0	4.0
ASP6005 (AJM)	7.0	7.7	5.7	52.3	2.7	4.0	4.0	3.0	3.7	5.3	4.3	3.9
HAWKEYE 2 (SRX 4692)	5.7	6.7	5.0	52.3	3.0	3.0	4.3	4.0	3.3	4.7	4.7	3.9
FIREBOLT (PRG HS-01-09)	6.7	7.3	6.7	52.3	2.7	3.3	4.0	3.3	4.3	4.3	4.7	3.8
PALMER III	6.0	7.0	7.3	48.7	3.0	3.3	4.0	3.3	3.7	4.7	4.3	3.8
PS-2	5.3	6.3	6.3	52.0	2.7	3.3	4.0	3.3	4.0	4.3	5.0	3.8
PINNACLE	3.7	6.3	5.3	56.0	2.0	3.3	4.3	3.3	3.7	4.3	4.0	3.6
SUNSHINE 2	6.7	7.3	7.0	52.0	2.7	3.0	4.0	3.0	4.0	4.0	4.3	3.6
BAR LP 4420	6.3	7.3	5.3	59.3	2.0	2.0	3.3	4.0	3.7	4.7	4.7	3.5
PREMIER	4.0	6.0	4.7	56.0	2.0	3.3	4.0	3.7	3.3	4.0	4.0	3.5
PICK 02-R	7.3	7.7	6.3	63.0	2.3	2.3	3.3	2.7	3.3	4.7	4.7	3.3
PIANIST (DP 17-9505)	6.0	6.7	5.7	56.0	2.0	2.3	3.3	3.0	3.7	4.0	4.0	3.2
LINN	1.3	5.3	2.0	67.0	1.3	3.0	3.3	2.3	3.7	3.3	4.0	3.0
LSD	1.3	1.5	1.6	40.1	2.3	2.4	1.9	1.6	1.1	1.1	1.3	1.0