

2000 High-Maintenance Kentucky Bluegrass Cultivar Trial

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The National Turfgrass Evaluation Project (NTEP) has sponsored several regional Kentucky bluegrass cultivar trials conducted at most of the northern agricultural experiment stations. This trial was established in the fall of 2000. The area receives 4 lb N/1000 ft²/yr and is irrigated as needed. The objective of this study is to investigate cultivar performance under a high-maintenance cultural regime similar to that used on irrigated home lawns in Iowa.

The visual quality was evaluated monthly in 2003 from May through October (Table 1). The values listed under each month in Table 1 are the averages of visual quality ratings made on three replicated plots. Visual quality was based on a scale of 9 to 1: 9 = best quality, 6 = lowest acceptable quality, and 1 = worst quality. The yearly average of the monthly 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 2003 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 datum in each column must vary before they are considered to be different from one another.

Data for genetic color (Gen Color) and leaf texture (Leaf Tex) were also collected in June 2003. 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. Spring greenup (Greenup) data were taken in April 2003 and were estimated using a 9 to 1 scale with 9 = green and 1 = dormant turf. In July 2003, damage from bluegrass billbugs was observed on several of the bluegrass cultivars. Some cultivars were undamaged. Ratings were taken at that time and are reported in Table 1. A rating of 9 is no damage and 1 is dead grass due to the feeding damage of the billbugs.

Table 1. 2003 visual quality and other ratings for the High-Maintenance Kentucky Bluegrass Cultivar Trial

Kentucky Bluegrass Cultivar	Gen Color	Greenup	Leaf Tex	Billbug Damage	Visual Quality							Mean
					May	Jun	Jul	Aug	Sep	Oct		
TSUNAMI (J-2487)	7.3	5.3	7.0	9.0	7.7	7.7	8.3	7.7	8.0	8.3	7.9	
BEDAZZLED	6.0	6.7	6.3	9.0	6.7	7.0	8.3	7.7	7.7	8.0	7.6	
LANGARA	7.3	7.0	7.0	9.0	6.3	6.7	7.7	7.3	8.3	9.0	7.6	
MIDNIGHT II (A98-739)	7.7	5.3	7.0	9.0	7.3	7.7	7.7	7.0	7.7	8.0	7.6	
RUGBY II	6.7	5.7	6.5	7.0	6.7	6.7	8.0	7.3	8.3	8.3	7.6	
J-1838	7.3	5.0	7.3	9.0	7.0	6.7	7.3	8.0	7.7	8.3	7.5	
J-2561	7.3	5.0	6.3	9.0	6.7	7.0	7.7	7.0	8.3	8.3	7.5	
SI A96-386	6.7	5.0	5.7	9.0	7.0	6.0	8.3	7.0	8.3	8.3	7.5	
UNKNOWN	8.0	5.0	6.7	9.0	7.0	7.0	8.0	8.0	7.3	7.7	7.5	
A97-1409	7.7	6.0	6.0	9.0	6.0	6.0	7.7	8.0	8.3	8.3	7.4	
GINNEY (J-1368)	7.0	5.3	6.7	9.0	7.3	6.7	7.0	7.3	7.7	8.3	7.4	
PST-161	7.7	7.0	6.3	9.0	6.0	7.3	8.3	7.0	8.0	8.0	7.4	
A96-427	6.3	5.7	6.3	9.0	6.7	6.0	7.7	7.3	7.7	8.3	7.3	
BAR PP 0566	6.7	6.7	6.7	8.7	6.7	6.7	8.0	8.0	7.0	7.7	7.3	
BLUESTONE (PST-731)	7.7	6.0	6.3	8.7	7.0	7.0	7.3	7.0	8.3	7.3	7.3	
MISTY	7.0	6.3	5.7	9.0	6.0	6.7	8.0	8.0	7.7	7.3	7.3	
A97-1432	7.3	6.7	6.3	9.0	6.7	6.7	7.7	7.0	7.3	8.0	7.2	
BEYOND (J-1880)	6.3	5.0	6.7	8.0	7.7	6.3	7.0	6.7	7.3	8.3	7.2	
J-1513	7.3	5.3	7.0	9.0	6.7	7.3	7.3	6.7	7.7	7.7	7.2	
J-2890	7.7	5.3	6.7	9.0	6.7	7.0	6.3	7.0	8.0	8.0	7.2	
MIDNIGHT	7.0	6.0	6.7	8.7	6.7	6.7	7.3	7.0	7.7	7.7	7.2	
NORTH STAR	7.7	4.3	7.0	9.0	6.3	7.0	7.7	8.0	7.0	7.3	7.2	
SR 2284 (SRX 2284)	7.7	6.0	6.7	9.0	6.3	7.3	7.7	7.3	7.7	6.7	7.2	
ARCADIA	7.3	5.3	7.0	8.7	7.0	7.0	7.7	6.3	7.3	7.3	7.1	
BARRISTER (J-1655)	7.0	5.7	7.0	8.7	6.3	5.7	7.7	7.3	7.0	8.3	7.1	
GLENMONT (H94-293)	7.0	5.3	6.3	9.0	6.7	7.3	7.7	7.0	7.3	6.7	7.1	
PST-B5-125	6.7	5.7	6.7	9.0	6.7	6.7	7.0	6.7	7.7	8.0	7.1	
QUANTUM LEAP	7.0	5.0	6.7	7.7	7.0	6.7	6.0	6.7	7.7	8.3	7.1	
CABERNET	7.0	7.7	7.0	9.0	6.7	6.3	7.0	7.0	7.7	7.3	7.0	
ODYSSEY	7.3	5.0	7.3	7.7	7.0	6.7	6.7	7.3	7.0	7.3	7.0	
PRINCETON 105	6.3	7.0	6.0	8.7	6.7	7.7	7.7	7.0	6.7	6.3	7.0	
A97-1330	6.7	5.0	6.0	9.0	5.7	6.3	8.0	7.0	7.3	7.0	6.9	
ASCOT	6.7	5.3	6.0	9.0	6.3	6.7	7.7	5.7	7.0	8.0	6.9	
BOUTIQUE	7.3	6.0	6.3	9.0	5.3	6.0	7.3	6.3	8.0	8.3	6.9	
H92-558	7.0	6.7	6.0	7.0	6.3	7.0	5.7	6.0	7.7	8.7	6.9	
MALLARD (A97-1439)	7.3	5.7	6.0	8.3	6.3	7.0	7.0	7.3	7.0	6.7	6.9	
NU DESTINY (J-2695)	7.7	5.0	6.3	9.0	6.7	7.0	6.7	6.3	7.3	7.3	6.9	
PST-YORK HARBOR 4	7.3	6.0	6.0	7.7	6.0	6.3	8.0	6.7	7.3	7.0	6.9	
SERENE	7.0	6.7	6.0	8.3	6.7	6.7	7.0	6.7	7.0	7.7	6.9	
A96-739	6.7	6.3	5.7	9.0	6.0	6.7	8.0	6.3	7.0	6.7	6.8	
ARROW (A97-1567)	7.0	5.7	6.0	9.0	6.3	6.3	7.0	6.7	7.0	7.7	6.8	
B3-171	6.3	6.3	6.7	8.3	6.3	6.3	7.0	7.0	6.7	7.3	6.8	

Kentucky Bluegrass Cultivar	Gen Color	Greenup	Leaf Tex	Billbug Damage	-----Visual Quality-----						
					May	Jun	Jul	Aug	Sep	Oct	Mean
BAR PP 0573	7.0	6.0	6.0	9.0	6.7	6.3	7.3	7.0	6.7	7.0	6.8
BLUE RIDGE (A97-1449)	7.3	6.3	6.3	8.7	6.7	6.3	6.7	6.7	7.7	7.0	6.8
DLF 76-9032	6.0	5.3	7.3	9.0	6.3	6.7	7.0	6.0	6.7	8.3	6.8
SHAMROCK	7.0	7.0	6.3	9.0	6.0	6.7	7.0	6.7	7.3	7.3	6.8
SHOWCASE	7.3	5.3	6.7	9.0	7.3	6.3	6.7	7.0	6.7	6.7	6.8
UNIQUE	6.3	5.0	6.3	9.0	6.0	6.3	7.7	6.3	6.7	7.7	6.8
A98-365	6.3	6.0	6.3	9.0	5.7	5.7	7.0	7.0	7.0	7.7	6.7
B3-185	6.7	5.7	6.3	9.0	6.0	6.3	7.0	7.0	7.0	7.0	6.7
BA 00-6001	6.3	5.3	6.3	9.0	6.0	6.0	7.7	7.0	6.3	7.0	6.7
BA 83-113	6.7	6.3	6.0	7.7	6.3	6.3	6.3	6.3	7.7	7.3	6.7
BARONETTE (BA 81-058)	7.3	6.3	6.7	9.0	6.3	6.3	7.7	6.7	6.7	6.3	6.7
BROOKLAWN	6.3	6.3	6.3	7.7	6.0	6.0	6.7	6.3	7.3	7.7	6.7
GOLDSTAR (A98-296)	7.0	6.0	6.0	9.0	5.7	6.7	7.0	6.3	6.7	7.7	6.7
H92-203	6.0	5.0	6.7	9.0	6.7	6.0	7.3	6.7	6.7	6.7	6.7
LIBERATOR	7.3	4.7	6.3	9.0	6.3	5.7	7.0	6.7	7.3	7.3	6.7
PP H 7832	7.3	6.3	6.0	8.0	5.7	5.7	7.0	7.7	7.3	7.0	6.7
PST-108-79	6.3	5.7	6.3	6.7	6.3	6.3	6.0	6.3	8.0	7.3	6.7
SRX 2394	7.0	6.0	6.7	9.0	5.7	6.0	7.7	6.7	6.0	8.3	6.7
WILDWOOD	7.3	5.3	7.7	7.0	6.0	6.0	7.0	6.7	7.3	7.0	6.7
B4-128A	6.0	5.0	6.7	8.7	6.3	6.0	7.7	6.3	6.7	6.7	6.6
BAR PP 0468	6.3	5.7	7.3	9.0	6.7	6.0	7.0	6.3	6.7	6.7	6.6
BODACIOUS	6.7	6.0	6.3	8.7	5.7	5.0	6.0	7.3	7.3	8.0	6.6
BORDEAUX	7.0	5.7	7.0	9.0	5.7	6.3	7.0	6.3	6.7	7.3	6.6
CHAMPAGNE	7.0	6.7	6.7	9.0	5.7	7.0	7.7	7.0	6.3	5.7	6.6
HALLMARK	6.7	5.0	7.7	9.0	5.7	6.3	7.0	7.0	6.3	7.0	6.6
LAKESHORE (A93-200)	6.3	6.3	7.0	9.0	6.3	6.0	7.0	6.3	6.7	7.0	6.6
MOONLIGHT	7.7	6.3	5.7	9.0	6.3	6.0	6.3	5.7	7.7	7.7	6.6
NA-K992	7.7	6.3	6.7	9.0	5.0	6.7	7.0	6.7	7.3	7.0	6.6
NUGLADE	6.7	5.0	6.7	8.7	5.7	5.7	6.7	6.3	7.7	7.3	6.6
PST-B3-170	7.3	5.3	7.3	9.0	6.3	6.3	7.3	6.7	7.0	6.0	6.6
PST-H6-150	6.0	6.0	6.0	9.0	5.7	5.7	7.3	6.3	7.7	7.0	6.6
RAMBO	6.3	6.3	7.0	9.0	6.3	6.3	7.0	6.0	7.7	6.3	6.6
ROYALE (A97-1336)	7.3	5.3	6.3	8.7	5.7	6.7	7.0	6.0	6.7	7.3	6.6
BAR PP 0471	6.0	6.0	7.0	8.0	6.0	6.3	7.3	7.0	5.3	7.0	6.5
BH 00-6003	6.3	5.0	6.3	9.0	5.7	5.7	7.0	7.0	7.0	6.7	6.5
BLACKSTONE	7.0	7.0	6.3	5.7	6.3	5.7	6.3	6.3	7.3	7.0	6.5
PP H 6370	6.7	5.7	7.3	7.3	6.0	6.0	6.0	7.0	7.0	7.0	6.5
PRO SEEDS - 453	6.0	6.3	6.7	7.3	6.3	5.7	6.3	5.3	7.7	7.7	6.5
A98-183	7.0	5.7	6.0	9.0	6.0	6.0	7.3	6.0	6.0	7.0	6.4
ABBAY	6.7	6.0	6.0	7.3	5.7	6.3	7.3	6.7	6.3	6.3	6.4
BARONIE	5.7	5.7	6.7	8.0	6.0	6.0	6.7	6.7	6.0	7.0	6.4
BARZAN	8.0	4.7	7.0	7.3	5.0	6.7	7.0	7.0	6.7	6.3	6.4
BRILLIANT	5.7	5.3	6.7	9.0	5.7	5.7	7.0	6.3	6.3	7.3	6.4
CHELSEA	6.7	6.0	7.3	9.0	6.3	6.0	7.3	7.0	6.3	5.7	6.4
CHICAGO II	7.0	5.3	6.3	6.7	7.0	6.0	5.3	6.3	6.7	7.0	6.4
EAGLETON	6.7	7.0	6.0	9.0	6.3	6.7	7.0	6.3	6.3	5.7	6.4
FREEDOM II	7.0	5.0	7.0	6.3	7.0	6.7	6.3	5.7	6.0	7.0	6.4
HV 238	6.7	7.0	6.0	9.0	6.0	7.0	7.0	6.7	6.0	6.0	6.4
IMPACT	7.3	5.3	7.3	7.7	6.7	6.7	5.7	5.3	6.7	7.3	6.4
JEWEL	6.7	6.3	6.7	8.0	5.3	6.3	7.0	7.0	6.7	6.3	6.4
MERCURY (PICK-232)	7.0	6.7	6.7	6.7	5.7	5.3	6.0	6.0	7.3	8.0	6.4
PP H 7907	7.7	5.7	6.3	7.3	5.3	6.0	6.0	6.7	7.3	7.3	6.4
PST-1701	6.7	7.3	7.3	8.7	5.7	6.3	7.3	6.3	6.3	6.3	6.4
RAVEN	7.3	6.3	6.3	8.0	5.3	6.0	7.3	6.7	6.7	6.7	6.4
SONOMA	6.7	6.0	6.7	8.0	5.7	6.3	7.0	6.7	6.0	7.0	6.4
SRX QG245	6.3	6.7	7.3	8.7	5.7	6.7	7.7	7.0	5.0	6.3	6.4
1B7-308	7.0	6.7	6.0	7.3	5.3	5.7	6.7	6.3	6.7	7.3	6.3
99AN-53	8.0	6.0	6.3	9.0	5.3	6.0	7.0	7.0	6.3	6.0	6.3
AWESOME (J-1420)	7.0	5.0	6.7	7.0	7.0	6.0	6.0	5.7	6.7	6.7	6.3
BA 82-288	6.7	6.3	6.3	9.0	5.7	6.0	7.3	6.3	6.0	6.7	6.3
BARON	6.3	5.3	6.3	9.0	6.0	5.7	6.0	6.7	7.0	6.7	6.3
BLACKSBURG II (PST-1BMY)	6.3	5.7	6.7	8.3	6.3	6.3	6.7	6.0	5.7	6.7	6.3
BLUE KNIGHT	7.0	5.0	6.7	8.7	5.7	6.3	6.0	6.0	7.7	6.3	6.3
MARQUIS	6.7	6.3	6.3	8.0	5.3	6.0	6.3	6.7	6.3	7.3	6.3
PST-H5-35	6.3	5.3	6.7	8.7	6.0	6.3	6.3	5.3	6.7	7.0	6.3
SRX 26351	7.7	5.7	7.7	7.0	6.0	7.3	6.3	5.7	6.3	6.0	6.3
A98-1028	6.0	6.0	6.7	8.7	5.7	6.3	6.7	6.3	5.7	6.3	6.2
A98-881	6.7	6.0	7.0	9.0	6.0	6.3	6.7	5.7	6.3	6.3	6.2

Kentucky Bluegrass Cultivar	Gen Color	Greenup	Leaf Tex	Billbug Damage	-----Visual Quality-----						
					May	Jun	Jul	Aug	Sep	Oct	Mean
GOLDRUSH	7.0	5.0	6.3	8.3	5.3	6.0	6.3	6.0	6.7	6.7	6.2
J-2885	7.7	5.0	6.3	8.0	6.7	6.0	6.3	5.7	6.3	6.3	6.2
JEFFERSON	5.7	7.3	7.0	8.0	5.7	6.0	6.7	6.7	6.3	6.0	6.2
LILY	6.7	5.7	6.7	8.0	6.0	6.3	6.7	6.0	5.7	6.3	6.2
LIMOUSINE	6.7	6.3	6.7	6.0	6.0	6.3	5.3	6.3	6.3	6.7	6.2
PST-B4-246	6.7	5.3	7.0	8.3	5.3	6.0	7.7	5.7	6.0	6.3	6.2
RITA	7.3	6.7	6.3	8.3	6.0	7.0	6.7	6.0	5.7	6.0	6.2
ALPINE	6.7	5.3	7.7	6.0	5.3	6.3	6.0	6.0	6.3	6.7	6.1
B5-43	7.0	6.3	6.7	6.0	6.0	5.7	5.0	6.0	6.3	7.3	6.1
BLUEMAX (PST-B5-89)	7.7	5.7	5.7	9.0	6.0	6.3	5.7	5.7	6.3	6.7	6.1
BOOMERANG	7.7	6.0	7.0	6.0	5.7	6.0	4.7	6.0	7.3	7.0	6.1
ENVICTA	7.3	6.0	6.3	7.3	5.7	6.0	5.7	6.7	6.7	5.7	6.1
EXCURSION (J-1648)	7.7	5.0	6.0	7.3	5.7	6.3	5.3	6.0	5.7	7.3	6.1
PP H 7929	6.7	6.0	6.0	8.0	5.3	5.3	6.3	6.0	7.0	6.3	6.1
SRX 2114	6.3	5.3	7.0	9.0	6.0	6.0	7.0	5.3	5.7	6.3	6.1
TOTAL ECLIPSE	7.0	5.0	6.7	6.0	6.3	6.3	4.7	5.3	6.3	7.3	6.1
A98-139	6.7	7.0	6.0	8.0	5.3	5.7	5.7	6.0	6.7	6.7	6.0
LIMERICK	7.0	5.7	6.7	6.7	5.7	6.3	6.0	6.3	6.0	5.7	6.0
A96-742	5.7	7.0	6.3	9.0	5.7	5.3	7.3	6.3	5.0	5.7	5.9
BH 00-6002	6.0	5.7	6.3	9.0	6.0	6.3	7.3	5.7	4.7	5.7	5.9
CHAMPLAIN (A98-1275)	6.3	5.3	6.0	7.3	6.3	6.3	6.0	6.0	5.0	6.0	5.9
DLF 76-9037	5.7	5.7	6.3	9.0	6.0	5.7	6.3	6.0	5.7	5.7	5.9
MONTE CARLO (A96-402)	6.7	5.3	6.0	9.0	6.7	5.3	5.7	6.0	5.7	6.3	5.9
PERFECTION (J-1515)	7.3	5.0	6.3	7.3	5.3	6.3	5.7	6.0	5.7	6.7	5.9
PST-1804	7.0	6.7	6.7	7.3	5.0	6.3	6.3	5.7	6.0	6.3	5.9
PST-222	7.0	4.7	5.3	7.0	5.3	5.7	6.3	5.7	6.3	6.0	5.9
ROYCE (A98-304)	6.7	4.7	7.3	8.7	5.7	5.7	6.0	6.0	5.7	6.3	5.9
VOYAGER II (PST-1QG-27)	7.0	5.3	7.0	9.0	5.0	6.0	6.0	6.3	6.3	6.0	5.9
WASHINGTON	6.0	7.3	8.0	8.7	5.3	6.3	6.7	6.3	5.7	5.3	5.9
A97-1715	6.7	6.7	7.0	8.0	5.7	5.7	5.7	5.7	5.7	6.3	5.8
APOLLO	6.3	5.7	6.3	9.0	5.7	5.7	6.7	6.3	4.7	6.0	5.8
DLF 76-9034	5.0	6.7	6.0	8.7	5.7	5.3	6.0	6.3	5.3	6.0	5.8
DLF 76-9036	6.3	5.3	6.0	8.3	5.0	5.0	6.0	7.0	6.3	5.3	5.8
EVEREST	7.3	4.7	7.0	7.0	6.0	5.3	5.3	5.3	6.3	6.3	5.8
EVERGLADE	7.0	5.3	6.7	6.7	6.3	6.3	4.7	5.7	6.0	6.0	5.8
FAIRFAX	6.3	6.3	6.7	8.0	6.0	6.0	6.3	4.7	6.0	6.0	5.8
KENBLUE	5.3	7.0	8.0	7.0	4.7	6.0	6.0	6.3	6.0	6.0	5.8
A98-407	6.7	6.3	6.0	7.7	5.3	5.3	5.3	6.0	6.0	6.0	5.7
ALLURE	6.0	7.0	6.7	4.7	5.7	6.0	4.3	5.0	6.7	6.3	5.7
AWARD	7.0	4.7	6.3	8.7	5.3	5.3	5.3	5.3	6.0	7.0	5.7
BARTITIA	6.3	5.7	7.0	5.7	6.0	6.0	6.0	4.7	5.7	5.7	5.7
CVB-20631	6.7	5.7	6.3	7.3	5.3	5.3	5.7	5.3	6.0	6.7	5.7
GO-9LM9	5.7	7.0	8.0	6.3	5.0	5.7	6.0	6.3	5.7	5.7	5.7
JULIA	7.0	6.0	6.7	6.3	5.0	6.3	5.0	6.3	6.0	5.7	5.7
PICK 417	7.0	6.3	5.7	6.3	5.7	5.7	5.7	5.0	6.0	6.0	5.7
SRX 27921	6.3	5.0	6.7	5.0	6.0	5.3	5.0	5.0	6.0	7.0	5.7
A96-451	7.0	4.7	5.7	6.7	5.7	5.0	6.3	5.3	5.7	5.7	5.6
HV 140	7.0	5.7	6.0	5.7	5.0	5.7	4.7	5.3	6.3	6.7	5.6
JULIUS	6.0	5.7	6.3	6.0	5.7	6.0	5.3	5.0	5.3	6.0	5.6
PST-604	6.3	6.0	6.0	6.7	5.7	5.7	5.3	5.3	5.3	6.0	5.6
A97-857	7.0	6.3	7.3	7.7	5.3	5.7	5.3	5.7	5.3	5.3	5.4
MOON SHADOW (PICK 113-3)	6.7	5.3	6.7	5.3	6.0	5.3	5.0	4.3	5.3	6.3	5.4
PP H 6366	7.0	5.0	7.3	5.7	6.0	5.7	5.0	4.7	5.3	5.3	5.3
B5-45	6.3	6.0	6.0	6.0	6.0	5.3	5.3	5.3	4.7	4.7	5.2
COVENTRY	5.7	6.0	6.7	5.0	6.0	6.0	4.3	4.0	5.0	5.3	5.1
PICK 453	7.0	5.3	6.0	6.7	5.3	5.3	5.0	4.7	5.0	5.3	5.1
CHATEAU	5.7	6.3	6.0	5.7	5.7	5.3	5.3	4.7	4.0	5.0	5.0
WELLINGTON	5.7	6.3	7.3	8.0	4.3	4.7	5.0	5.7	5.7	4.7	5.0
B5-144	7.3	6.0	6.3	5.0	6.0	5.0	4.3	4.7	4.0	5.3	4.9
BARIRIS	7.0	5.0	6.3	5.0	5.3	4.7	4.7	5.0	4.7	5.0	4.9
BA 84-140	7.7	5.7	5.7	5.7	5.3	5.3	4.3	4.3	4.3	5.0	4.8
BLUE SAPPHIRE (NA-K991)	8.0	6.0	6.0	5.3	5.3	5.3	4.7	5.3	4.0	4.0	4.8
BARITONE	6.7	6.0	5.7	5.0	4.7	4.0	2.7	3.0	3.3	3.7	3.6
LSD	1.4	1.3	0.9	3.8	1.4	1.8	3.1	4.0	3.7	3.2	1.9