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2005 High-Maintenance Kentucky Bluegrass Cultivar Trial-2008 Data

Nick E. Christians and Christopher J. Blume

The National Turfgrass Evaluation Project (NTEP) has sponsored several regional Kentucky bluegrass cultivar trials conducted at most of the northern agricultural experiment stations. It includes 110 cultivars of Kentucky bluegrass. This trial was established in the fall of 2005. The area receives 3 to 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 2008 from May through August and October (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 was 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 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 2007 season. Any of the cultivars with an average rating of 6 or above would be acceptable for Iowa conditions. 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 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. Spring green up (Greenup) data were taken in April 2008 and were estimated using a 9 to 1 scale, with 9 = green and 1 = dormant turf.

Table 1. 2008 visual quality and other ratings for the 2005 High-Maintenance Kentucky Bluegrass Cultivar Trial.

NAME	GENCOLOR	GREENUP	LEAFTEX	DOLLSPOT	MAY	JUN	JUL	AUG	OCT	MEAN
ALEXA II (J-2404)	8.7	3.7	6.0	8.3	5.0	7.3	8.0	7.7	9.0	7.4
NUCHICAGO (J-1466)	9.0	4.7	6.0	7.7	6.3	7.3	8.0	7.0	8.3	7.4
YANKEE (NA-3271)	8.3	3.3	6.3	9.0	6.3	7.7	7.0	7.0	9.0	7.4
A00-1400	9.0	4.7	6.0	8.3	5.3	8.3	7.3	7.0	8.7	7.3
BD 03-84	7.3	5.0	6.3	7.7	6.3	8.3	7.0	7.3	7.3	7.3
BEWITCHED	9.0	4.0	6.7	8.3	5.7	8.7	6.3	7.3	8.7	7.3
J-1334	8.3	3.7	6.7	8.0	6.3	7.3	7.7	6.7	8.7	7.3
MYSTERE	6.3	8.0	6.0	8.7	7.3	6.3	7.7	7.7	7.7	7.3
SOLAR ECLIPSE (J-2399)	9.0	5.3	6.3	7.7	6.3	7.7	6.7	7.0	9.0	7.3
A00-247	7.0	5.0	6.0	9.0	6.3	7.0	7.3	7.3	8.0	7.2
JULIA	7.0	6.7	6.3	8.7	6.7	6.3	7.3	7.3	8.3	7.2
MIDNIGHT	9.0	4.7	6.0	8.3	6.0	7.0	7.0	7.3	8.7	7.2
PSG 711	7.7	4.7	6.3	9.0	7.3	7.0	7.0	8.0	6.7	7.2
SUDDEN IMPACT (J-2870)	8.7	4.0	6.7	8.0	6.0	7.7	7.0	6.7	8.7	7.2
EMPIRE (A01-299)	8.0	3.7	6.0	8.3	6.7	7.7	7.0	6.0	8.3	7.1
PST-1A1-899	7.0	6.7	6.0	9.0	6.3	6.7	7.0	7.3	8.0	7.1
SHIRAZ (LTP-73)	7.3	6.3	5.3	8.0	6.7	7.3	7.0	6.3	8.0	7.1
AKB449	8.7	4.7	6.0	7.0	6.3	7.0	7.7	6.3	7.7	7.0
ARROWHEAD (NA-3261)	7.7	7.0	6.3	8.3	6.7	6.7	7.7	7.7	6.3	7.0
BAR VV 0709	5.7	8.7	8.0	9.0	7.7	5.7	7.3	7.7	6.7	7.0
BARIRIS	6.3	7.3	6.3	9.0	7.0	6.7	6.3	6.7	8.3	7.0
DYNAMO	8.7	4.0	6.7	8.0	5.3	7.0	8.0	6.0	8.7	7.0
EXCURSION	9.0	3.7	6.3	8.3	6.7	7.7	6.0	6.3	8.3	7.0
J-3429	8.3	4.0	6.7	7.7	5.3	8.0	7.0	6.3	8.3	7.0
NU DESTINY	9.0	4.3	6.7	6.7	6.3	7.3	7.0	6.0	8.3	7.0
RAD-504	8.0	8.0	6.3	8.5	6.7	6.7	6.3	8.0	7.3	7.0
RHYTHM	8.7	5.0	6.0	8.3	6.3	7.3	6.7	6.7	8.0	7.0
AWARD	8.3	4.7	6.0	7.3	6.0	7.0	8.0	5.7	8.0	6.9
BLUE NOTE (A01-349)	7.3	5.0	7.0	8.0	7.0	7.0	6.7	6.7	7.0	6.9
DP 76-9081	6.7	5.3	7.7	9.0	6.3	6.0	8.0	8.0	6.0	6.9
HAMPTON (BD 03-159)	8.7	5.0	6.3	8.3	5.7	7.3	6.7	7.3	7.7	6.9
J-2024	8.7	3.3	6.0	9.0	6.0	7.0	6.3	7.0	8.0	6.9
NUGLADE	9.0	5.3	6.7	7.7	5.7	7.0	7.7	5.7	8.7	6.9
SHAMROCK	6.0	7.0	6.3	9.0	7.0	6.0	7.3	7.7	6.3	6.9
STR 2485	6.3	6.3	6.7	8.7	7.0	6.0	7.0	6.3	8.0	6.9
4-SEASON (J-2791)	8.3	3.7	5.7	7.0	5.7	7.7	6.7	6.0	8.0	6.8
BARRISTER	9.0	4.0	6.0	9.0	5.3	7.3	6.7	7.7	7.0	6.8
FUTURITY (A99-3119)	7.7	4.7	6.7	8.0	7.0	6.3	7.3	6.7	6.7	6.8
GLENMONT	8.0	4.3	6.7	7.7	6.3	7.7	7.0	5.7	7.3	6.8
PST-109-752	8.0	6.3	6.7	8.7	7.3	6.3	6.7	6.0	7.7	6.8
RHAPSODY (A97-1287)	8.0	6.3	6.7	8.7	6.3	6.7	6.3	6.7	8.0	6.8
STARBURST (STR 2703)	7.7	8.3	6.3	8.7	6.3	7.0	7.3	6.7	6.7	6.8
VOLT (A98-999)	6.3	5.7	5.7	8.3	6.7	6.3	6.7	6.3	8.0	6.8
A00-1254	8.7	6.3	6.0	7.3	7.3	7.3	6.3	6.0	6.3	6.7
BD 98-2108	7.3	5.3	6.0	8.7	6.3	6.3	7.3	6.0	7.7	6.7

BLUESTONE	8.7	5.3	6.0	9.0	6.0	6.3	6.7	7.0	7.3	6.7
EVEREST	9.0	4.0	7.3	8.7	6.0	7.3	6.7	6.7	7.0	6.7
EVERGLADE	8.7	4.0	6.0	8.3	5.3	7.3	6.3	7.0	7.3	6.7
MOONLIGHT SLT (PST-101-390)	8.0	3.3	6.3	8.3	5.0	6.7	7.3	7.0	7.7	6.7
MSP 3722	8.0	4.0	5.7	8.3	5.3	7.0	6.7	6.7	8.0	6.7
NA-3257	7.0	4.0	6.3	9.0	6.7	7.0	6.7	6.3	7.0	6.7
PST-101-73	8.0	4.3	6.3	9.0	6.3	6.0	6.7	7.3	7.0	6.7
SKYE	7.0	6.7	7.0	7.0	6.7	6.0	7.0	5.7	8.0	6.7
SW AG 514	9.0	3.0	7.3	7.3	5.7	7.3	7.3	5.3	7.7	6.7
TOUCHE (STR 23180)	6.7	6.3	6.3	8.7	6.7	6.3	6.3	6.3	8.0	6.7
ZINFANDEL (LTP 2949)	8.7	4.7	5.7	7.7	5.0	6.7	6.7	6.3	8.7	6.7
A98-689	7.3	4.7	5.7	8.3	6.3	6.3	7.3	6.0	7.0	6.6
AURA (A99-2559)	7.3	8.3	6.7	7.0	7.3	5.7	6.7	5.0	8.3	6.6
AVIATOR (NA-3259)	7.7	4.7	6.0	7.7	6.3	6.3	6.7	7.0	6.7	6.6
BANDERA (SPTR 2LM95)	7.3	3.3	7.3	8.3	5.7	7.3	7.7	5.7	6.7	6.6
H94-305	6.7	8.3	7.3	8.7	6.7	6.3	7.3	6.3	6.3	6.6
J-2502	8.3	3.7	6.7	9.0	5.3	7.0	6.3	6.3	8.0	6.6
KENBLUE	5.3	7.7	8.0	9.0	6.7	5.7	8.3	6.3	6.0	6.6
MSP 3723	7.7	4.0	7.7	9.0	5.0	7.0	6.3	7.3	7.3	6.6
NA-3248	6.7	6.0	7.0	8.3	5.3	6.7	7.7	6.0	7.3	6.6
PSG 366	7.0	6.0	6.0	8.0	6.3	6.0	7.3	5.7	7.7	6.6
SPTR 2959	6.7	6.0	6.3	8.0	6.3	6.0	6.0	6.7	8.0	6.6
STR 2553	7.7	4.0	6.3	9.0	6.0	6.0	6.7	7.3	7.0	6.6
1QG-38	7.3	4.3	7.0	9.0	6.0	6.3	6.3	7.0	7.0	6.5
A95-410	8.0	4.0	6.0	7.0	5.3	7.3	7.0	5.7	7.3	6.5
AMERICA	7.0	4.0	6.7	8.0	6.0	6.0	6.7	6.3	7.3	6.5
AVID	8.7	3.0	6.3	6.7	5.0	8.3	6.3	5.3	7.7	6.5
BAR VV 9630	7.0	5.0	5.3	9.0	6.0	6.3	7.0	6.7	6.7	6.5
BD 99-2103	8.7	4.0	5.7	8.0	6.0	6.3	6.3	6.7	7.3	6.5
BEYOND	8.7	3.7	6.7	9.0	5.3	6.0	7.0	6.7	7.3	6.5
DLF 76-9075	6.7	6.0	7.7	8.0	6.3	6.3	7.3	6.0	6.3	6.5
DP 76-9066	8.3	3.0	6.7	9.0	5.0	7.3	5.7	6.3	8.3	6.5
EMBLEM (PST-Y2K-169)	8.7	3.0	6.7	7.0	5.0	7.3	6.0	6.0	8.0	6.5
GRANITE (J-1326)	8.3	5.3	6.7	7.7	5.7	6.3	7.3	5.7	7.7	6.5
IMPACT	8.3	5.3	6.3	8.3	6.0	6.3	6.3	6.3	7.3	6.5
JULIET (BD 95-1930)	6.3	6.0	6.7	9.0	6.3	6.3	7.0	6.7	6.3	6.5
POPR 04594	6.0	6.3	7.3	9.0	6.3	6.0	6.3	6.7	7.3	6.5
PROSPERITY	9.0	4.3	6.0	6.7	5.7	7.3	7.3	5.3	7.0	6.5
RAD-343	6.0	6.7	7.7	9.0	6.3	5.7	7.0	6.7	7.0	6.5
RAD-762	6.0	5.7	7.7	8.3	7.3	6.0	7.3	5.7	6.3	6.5
RUGBY II	8.0	4.3	6.7	8.0	5.0	6.3	7.7	6.3	7.0	6.5
WASHINGTON	6.0	6.0	7.3	8.7	6.7	6.0	5.7	7.3	7.0	6.5
ARGOS	7.0	5.3	5.3	7.0	6.7	6.7	6.3	5.3	7.0	6.4
CORSAIR (NA-3249)	7.3	5.0	6.3	7.7	6.7	6.0	6.3	5.3	7.7	6.4
CPP 822	6.3	5.7	7.3	9.0	5.3	7.0	6.0	6.7	7.0	6.4

RAD-0ANG4	6.7	4.7	6.0	7.7	6.3	6.0	5.7	6.0	8.0	6.4
ARIES (A98-948)	6.3	5.7	5.7	8.0	6.0	6.7	5.3	6.0	7.3	6.3
BAR VV 0665	7.0	4.0	6.3	7.3	5.3	5.3	7.3	5.7	7.7	6.3
BAR VV 9634	6.3	5.0	5.7	7.7	6.3	6.7	6.7	6.0	6.0	6.3
BELISSIMO	6.7	3.3	6.3	9.0	5.7	6.3	6.3	6.7	6.7	6.3
CPP 817	7.7	6.0	7.0	8.0	5.7	7.0	6.7	5.0	7.0	6.3
DIVA	7.0	4.0	6.3	6.7	6.3	6.7	6.7	5.7	6.3	6.3
GAELIC (BD 98-1358)	6.3	6.3	6.3	8.0	6.3	6.3	6.0	5.7	7.3	6.3
H98-701	7.3	4.0	7.0	8.3	6.0	6.3	7.0	6.3	6.0	6.3
HARMONIE	6.0	4.3	7.0	8.3	5.7	6.7	6.3	6.3	6.3	6.3
WILD HORSE (A97-890)	6.3	6.0	6.0	7.7	6.0	6.0	6.3	5.3	8.0	6.3
CPP 821	8.3	5.0	7.7	8.3	5.0	7.7	5.7	6.3	6.3	6.2
MSP 3724	7.7	3.7	7.3	7.0	5.7	6.3	7.0	6.3	5.7	6.2
BAR VV 8536	6.7	3.3	7.0	9.0	5.0	5.7	7.3	6.3	6.0	6.1
BARON	6.7	4.3	6.7	7.7	5.0	6.0	7.7	5.7	6.0	6.1
CP 76-9068	6.3	5.0	7.0	8.3	6.7	7.0	5.0	6.0	6.0	6.1
REVEILLE	7.3	3.0	6.3	9.0	5.0	5.3	6.3	6.7	7.3	6.1
BAR VK 0710	7.0	5.3	5.3	8.0	6.0	6.0	6.0	5.7	6.3	6.0
BLUEBERRY	8.7	3.3	6.7	5.3	5.3	7.3	6.3	4.3	6.7	6.0
PINOT (LTP-149)	8.0	3.3	6.0	6.7	5.3	6.0	6.7	5.0	6.7	5.9
LSD 0.05	1.1	1.6	NS	NS	2.1	1.1	2.1	4.8	2.1	1.4

- Aug quality data are significant at the 0.06 level of significance.