

2005 High-Maintenance Kentucky Bluegrass Cultivar Trial-2009 Data

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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. It includes 110 cultivars of Kentucky bluegrass. This trial was established in the fall of 2005 and terminated in the fall of 2009. 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 2009 from May through September (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 2009. 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 2009 and were estimated using a 9 to 1 scale, with 9 = green and 1 = dormant turf. The PCTRDTH is percent infestation with the fungal disease Red Thread. The scale is based on 0 = 0 percent Red Thread and 100 would be 100% of the turf infected.

NAME	GENCOLOR	GREENUP	LEAFTEX	PCTRDTH	MAY	JUN	JUL	AUG	SEP	MEAN
RUGBY II	7.3	6.7	6.3	0.0	6.0	7.0	7.7	7.3	8.0	7.2
ARGOS	7.7	8.0	6.7	5.0	6.0	7.3	7.3	7.3	7.3	7.1
BARON	8.3	5.0	5.7	5.7	6.0	8.0	7.7	7.3	6.3	7.1
DYNAMO	8.7	4.3	7.0	6.7	5.3	7.3	8.0	7.0	7.7	7.1
MOONLIGHT SLT (PST-101-390)	8.3	5.0	7.3	8.3	6.3	7.7	7.7	6.7	7.0	7.1
YANKEE (NA-3271)	7.7	7.3	7.3	1.7	7.3	6.7	6.7	8.0	7.0	7.1
ZINFANDEL (LTP 2949)	8.0	5.3	7.3	3.3	5.3	7.0	7.7	7.0	8.3	7.1
AVIATOR (NA-3259)	7.7	6.0	6.7	5.0	6.3	6.7	8.0	6.3	7.7	7.0
BEYOND	8.0	5.3	7.3	5.0	5.0	6.7	8.3	7.3	7.7	7.0
A95-410	7.7	5.0	6.0	1.7	5.3	7.3	7.3	7.3	7.3	6.9
BLUE NOTE (A01-349)	6.7	8.7	8.0	1.7	7.0	6.7	7.0	6.7	7.3	6.9
H98-701	7.0	7.0	7.7	1.7	7.0	6.7	7.3	6.3	7.0	6.9
MSP 3722	7.7	6.3	6.7	1.7	6.0	8.0	7.0	7.0	6.7	6.9
MSP 3723	5.7	6.7	8.3	5.0	6.0	6.3	7.3	6.7	8.0	6.9
RAD-504	8.7	8.0	6.7	3.3	5.7	7.3	7.0	7.0	7.3	6.9
RHAPSODY (A97-1287)	7.0	8.0	7.7	0.7	6.7	7.0	6.7	6.7	7.3	6.9
SW AG 514	8.7	4.0	7.7	3.3	4.7	7.3	7.0	8.0	7.3	6.9
VOLT (A98-999)	7.0	7.7	7.0	1.7	7.0	7.3	6.7	6.7	7.0	6.9
WILD HORSE (A97-890)	6.7	8.0	6.7	6.7	6.7	6.7	7.0	6.7	7.7	6.9
BLUESTONE	7.3	6.0	6.3	10.7	5.0	7.3	7.3	7.3	7.0	6.8
CPP 822	6.3	6.7	8.3	5.0	6.3	6.0	8.0	6.0	7.7	6.8
GAELIC (BD 98-1358)	6.7	9.0	7.7	3.3	7.3	6.7	6.3	7.0	6.7	6.8
MSP 3724	6.7	5.7	7.7	0.0	6.0	6.3	7.3	7.0	7.3	6.8
PST-1A1-899	8.3	8.0	7.0	6.7	6.7	6.7	7.3	6.7	6.7	6.8
RAVEL 1 (CPP 817)	6.3	7.7	7.3	11.7	6.3	6.7	7.3	6.7	7.0	6.8
SPTR 2959	7.0	8.0	7.3	1.7	7.7	6.3	6.7	6.3	7.0	6.8
A98-689	7.3	6.0	6.3	1.7	5.7	6.3	7.7	7.0	6.7	6.7

BAR VV 0665	7.3	5.0	7.0	5.0	5.7	7.0	7.7	6.7	6.3	6.7
BARRARI (BAR VV 9634)	6.3	8.3	6.3	1.7	7.0	6.7	6.7	7.0	6.3	6.7
BARRISTER	7.7	5.0	6.5	3.3	4.7	7.3	7.3	7.0	7.3	6.7
CORSAIR (NA-3249)	7.3	7.7	7.3	8.3	6.3	6.3	6.7	6.7	7.7	6.7
MERMAID (DP 76-9081)	6.7	7.3	7.0	0.0	6.3	6.0	7.7	7.0	6.3	6.7
POPR 04594	6.7	6.7	7.3	0.0	6.0	6.7	7.0	6.3	7.3	6.7
RAD-0AN64	7.7	6.3	7.3	0.0	5.7	7.0	6.7	6.7	7.7	6.7
REVEILLE	7.3	5.7	7.7	5.0	6.0	7.0	7.3	6.7	6.7	6.7
BANDERA (SPTR 2LM95)	8.3	4.3	6.3	1.7	5.0	7.0	7.7	7.0	6.3	6.6
BARIRIS	7.3	8.7	7.7	3.3	6.7	6.3	6.3	7.0	6.7	6.6
BD 98-2108	7.7	7.0	7.7	6.7	6.0	6.7	6.7	6.7	7.0	6.6
HARMONIE	6.3	8.3	8.3	6.7	7.7	6.0	6.7	6.3	6.3	6.6
PSG 366	7.0	7.3	7.0	6.7	6.3	6.7	7.0	6.3	6.7	6.6
PST-101-73	6.7	7.0	7.7	5.0	6.3	6.0	7.0	6.3	7.3	6.6
RUBICON (NA-3248)	6.7	8.7	8.0	10.0	6.7	6.0	6.7	6.0	7.7	6.6
1QG-38	6.0	7.0	8.0	5.0	6.3	6.0	7.0	6.3	7.0	6.5
A00-247	6.3	6.7	7.3	6.7	5.7	6.7	7.7	6.0	6.7	6.5
AMERICA	6.0	6.3	7.3	1.7	6.0	6.3	6.0	6.7	7.3	6.5
ARIES (A98-948)	6.3	7.0	6.7	6.7	6.3	6.3	6.7	6.7	6.7	6.5
BAR VV 9630	7.0	7.3	6.7	3.3	5.7	7.0	7.3	6.7	6.0	6.5
BARDUKE (BAR VV 8536)	8.3	4.7	6.7	1.7	4.7	7.3	7.0	7.3	6.3	6.5
FUTURITY (A99-3119)	6.7	5.7	7.0	5.0	5.7	6.7	6.3	6.7	7.3	6.5
JULIET (BD 95-1930)	6.7	8.0	8.0	0.0	7.0	6.0	6.0	6.7	6.7	6.5
PSG 711	7.3	6.3	7.0	6.7	5.7	6.3	7.0	6.0	7.3	6.5
SOMBRERO (CP 76-9068)	6.0	8.0	8.7	6.7	7.0	6.0	6.3	5.7	7.3	6.5
STR 2553	6.7	6.7	7.7	6.7	5.7	6.3	6.3	7.0	7.0	6.5
BELISSIMO	6.3	6.0	7.3	10.0	6.3	6.3	7.0	6.0	6.3	6.4
GREENTeam (CPP 821)	6.0	7.0	8.0	1.7	6.3	6.0	6.3	6.3	7.0	6.4
TOUCHE (STR 23180)	6.7	7.7	7.7	1.7	6.3	6.3	6.7	6.0	6.7	6.4
BAR VK 0710	7.0	7.0	7.0	6.7	6.3	6.7	6.7	6.0	6.0	6.3
BAR VV 0709	6.0	8.7	8.7	5.0	7.0	6.0	6.3	6.3	6.0	6.3
RAD-762	6.3	8.0	7.7	0.0	6.7	6.0	6.0	6.0	7.0	6.3
SHAMROCK	6.7	8.7	6.3	1.7	6.3	6.3	6.0	6.3	6.7	6.3
STR 2485	6.7	9.0	8.0	2.3	6.0	6.3	6.3	6.0	6.7	6.3
WASHINGTON	6.3	7.0	8.0	1.7	5.7	6.3	6.7	6.0	7.0	6.3
KENBLUE	6.0	9.0	9.0	6.7	7.7	5.7	6.0	5.7	6.0	6.2
DLF 76-9075	7.0	7.7	8.0	11.7	6.0	6.3	6.7	5.7	5.7	6.1
RAD-343	6.3	7.7	8.7	0.0	5.7	6.0	6.3	6.3	6.3	6.1
LSD	1.3	1.6	1.2	8.4	1.7	1.2	1.4	1.2	1.4	0.7