PROPOSAL FOR RELEASE AND COMMERCIALIZATION OF

'OKC 1131' TURF BERMUDAGRASS

KIND: Bermudagrass, *Cynodon dactylon* (L.) Pers. x *C. transvaalensis* Burtt-Davy

EXPERIMENTAL DESIGNATIONS: OKC 1131, OKC1131, OSUB11-31, OSUB 1131

SUGGESTED NAMES: To be determined in cooperation with licensees

DESCRIPTION, ORIGIN AND HISTORY: OKC 1131 is a clonally propagated F1 hybrid from a cross of *Cynodon dactylon* var. *dactylon* x *C. transvaalensis*. The grass must be vegetatively propagated due to its infertility. An OSU SSR molecular marker DNA profiling experiment definitively indicated OKC 1131 is a unique genotype, distinct from tested commercial cultivars (Fang et al., 2015).

A small crossing plot was established by planting clonal plants of the two parents in close proximity at the OSU Agronomy Research Station in August 2006. Seed was hand-harvested from the respective parents in the crossing block in the summer of 2007. Seedlings from the harvested seed of this cross along with seedlings from other crosses were transplanted to a space-planted selection nursery (2008 Turf Bermudagrass Hybrid Selection Nursery) of 1,540 plants on the OSU Efaw farm, Stillwater, OK in July 2008. In fall 2010, 64 clonal plants including OSUB11-31 were selected from the 2008 nursery. In 2011, the selected plants were entered into a regional trial with two replications at seven locations: Stillwater, OK; Dallas and College Station, TX; Gainesville, FL; Raleigh, NC; Tifton and Griffin, GA. In 2013, OSUB11-31 was entered into an advanced regional trial with four replications at eight locations (seven locations mentioned above and Jay, FL). In the same year, OKC 1131 was advanced to the 2013 – 2018 National Turfgrass Evaluation Program (NTEP) National Bermudagrass Test.

CHARACTERISTICS AND PERFORMANCE: OKC 1131 has been evaluated at OSU-Stillwater, in regional experiments, and more extensively in the 2013 NTEP National Bermudagrass Test (NTEP, accessed in January 2017). The NTEP test provided data from 17 locations in 2013 and 2014, and from 19 locations in 2015. 'Latitude 36', 'Tifway', 'Patriot' and 'Celebration' were comparative standard cultivars for vegetatively propagated entries in the national test. The major performance characteristics of OKC 1131 are described as follows.

Establishment Rate: The NTEP test reported establishment rate data in 2013, indicating OKC 1131 had excellent establishment ratings at each location. In KY2 (traffic trial), OKC 1131 had an establishment rate similar to Celebration and Patriot but a quicker rate than Latitude 36, 'TifTuf', and Tifway (2013Table 29C). TifTuf from the University of Georgia, originally tested under the experimental designation DT-1, is a recently commercialized, vegetatively propagated interspecific hybrid bermudagrass with high visual quality and drought resistance. In AL, the establishment rate of OKC 1131 was similar to that of TifTuf and Patriot but quicker than that of Latitude 36, Celebration, and Tifway (2013Table 32C). In FL and NC, OKC 1131 was similar in establishment rate to Celebration, TifTuf, and Patriot but quicker than Latitude 36 and Tifway (2013Tables 33C, 41C). In GA, IN, TN1 (regular trial), and TX, OKC 1131 was similar in establishment rate to the four standard cultivars and TifTuf (2013Tables 34C, 35C, 43C, 45C). In

KS and VA, the establishment rate of OKC 1131 was slower than Patriot but similar to TifTuf and the other three standard cultivars (2013Tables 36C, 46C). In KY1 (regular trial), OKC 1131 had a similar establishment rate as Patriot but quicker than the other three standard cultivars and TifTuf (2013Table 37C). In MO, OKC 1131 had a similar establishment rate to TifTuf, Patriot, Celebration, and Latitude 36 but a quicker rate than Tifway (2013Table 39C). In MS, OKC 1131 had an establishment rate similar to Celebration, Patriot, and TifTuf but quicker than Latitude 36 and Tifway (2013Table 40C). In OK, OKC 1131 had an establishment rate similar to TifTuf and Celebration but quicker than Tifway, Patriot, and Latitude 36 (2013Table 42C). In TN at site TN2 (traffic trial), OKC 1131 had a similar establishment rate to Celebration, Patriot, and Latitude 36 but a quicker rate than TifTuf and Tifway (2013Table 44C).

Turf Quality: When turf quality [scale 1 – 9, 9 = maximum quality] was averaged over all locations of the NTEP test, OKC 1131 was in the top performing statistical group in both 2014 and 2015 as indicated in the '2013-14 Progress Report' and the '2015 Progress Report' (2014Appendix Table and 2015 Appendix Table) (NTEP, 2015 & 2016). In 2014, OKC 1131 demonstrated an overall turf quality rating of 6.5, which was statistically equal to that of TifTuf [DT-1] (6.6) and Latitude 36 (6.4) and better than that of Patriot (6.0), Tifway (5.9) and Celebration (5.5). In 2015, the overall turf quality rating of OKC 1131 was 6.6, statistically equal to that of TifTuf (6.7) and higher than that of Latitude 36 (6.3), Patriot (6.1), Tifway (5.8), and Celebration (5.2). OKC 1131 ranked in the top 25% of all trial entries at 78.6% of the test locations in 2015, indicating its wide geographical adaptation.

Genetic Color: OKC 1131 has a dark green leaf color. In the NTEP test, the 2014 data indicated the genetic color rating [scale 1 – 9, 9 = maximum dark green color] of OKC 1131 (7.2) was statistically lower than that of Celebration (7.7) and Tifway (7.6) but not different from Patriot (7.4), Latitude 36 (7.1), and TifTuf (7.1) (2014Table 9C). The 2015 data of the NTEP test indicated that OKC 1131 had a genetic color rating (7.1) similar to Patriot (7.2), Tifway (6.7), and Latitude 36 (6.7) but better that Celebration (6.6) and TifTuf (6.6) (2015Table 20C).

Leaf Texture: OKC 1131 has leaf blades of fine texture. In 2014, the NTEP trial data indicated the overall mean leaf texture rating [scale 1 – 9, 9 = maximum fine leaf texture] of OKC 1131 was statistically the same as that of Latitude 36, Tifway, and TifTuf but finer than Patriot and Celebration (2014Table 11C). The 2015 data from the NTEP trial indicated that the leaf texture of OKC 1131 was the same as that of Latitude 36 and TifTuf but finer than Tifway, Patriot and Celebration (2015Table 22C).

Density: OKC 1131 has a very high density. Density is the overall visual effect of the number of living plants per unit area of turfgrass canopy and is rated on a 1 – 9 scale where 9 = maximum density for the species. The 2014 and 2015 NTEP data indicated its spring, summer and fall density ratings were similar to that of Tifway in all 6 events, TifTuf and Latitude 36 in 5 events, and Celebration in 2 events and Patriot in 1 event while its density ratings were better than Patriot for 5 events and Celebration 4 events. OKC 1131 had a lower density rating than Latitude 36 and TifTuf for 1 event (2014Tables 13C, 14C and 15C; and 2015Tables 23C, 24C and 25C).

Spring Greenup: The respective spring greenup ratings [scale 1 – 9, 9 = maximum greenup] of OKC 1131 in 2014 and 2015 were 6.1 and 6.0, statistically higher than that of

Latitude 36 (5.3, 5.4), Patriot (4.8, 4.5), Tifway (4.1, 4.7) and Celebration (3.7, 4.5) each year and higher than that of TifTuf (5.2, 5.6) in 2014 only (2014Table 10C and 2015Table 21C). The spring greenup ratings reflect the comparative winter hardiness of OKC 1131.

Living Ground Cover (LGC): OKC 1131 had very high living ground cover ratings [scale 0 – 99, 99 = complete, maximum live ground cover] in the NTEP test, suggesting its overall excellent response to stresses caused by insects, diseases, weeds and unfavorable environmental factors at the test sites. In 2014, OKC 1131 had spring and summer LGC ratings similar to TifTuf but higher than four standard cultivars, while its fall LGC was similar to that of Patriot, TifTuf and Latitude 36 but better than that of Celebration and Tifway (2014Tables 16C, 17C and 18C). In 2015, OKC 1131 had a spring LGC rating similar to TifTuf but better than the four standard cultivars (2015Table 26C). Its 2015 summer LGC rating was similar to TifTuf and Patriot, better than Latitude 36, Celebration and Tifway (2015Table 27C). The 2015 fall LGC ratings of OKC 1131, TifTuf, and four standard cultivars were not different (2015Table 28C).

Drought Resistance: In the NTEP test, a field trial performed at College Station, TX, reported turf quality and living ground coverage under drought conditions in August to October 2015 (2015Table 18C, 2 pages). TifTuf and OKC 1131 were the two top performers (Morris, 2016). Mean turf quality of OKC 1131 (6.9) was similar to TifTuf (7.5) but statistically superior to the four standard cultivars. In the drought test, percent living ground cover ratings of OKC 1131 were the same as those of TifTuf for 8 of 12 events, inferior for 3 events, but superior for 1 event. OKC 1131 exhibited better living ground coverage than Latitude 36 for 9 events and Patriot and Celebration for 3 events. Patriot had better LGC than OKC 1131 on one date in the drought test.

A field-based trial was conducted to evaluate the water use rates of 10 well-watered, bermudagrass (*Cynodon* spp.) genotypes in a completely randomized block design with three replications using mini-lysimeters with calcined clay as rooting media at the OSU Turfgrass Research Center, Stillwater, OK (Amgain et al., manuscript in preparation). Daily evapotranspiration (ET) rates were measured at pre-dawn by weighing the mini-lysimeters every 24 hours for 10 dates in 2013, 6 dates in 2014, and 8 dates in 2015. In 2013, 'TGS_U3', TifTuf, and 'Premier' used more water than OKC 1302, OKC 1163, Latitude 36, Tifway, and OKC 1131. In 2014, TifTuf, Celebration, Tifway, and OKC 1302 used more water than Premier, TGS-U3, 'NorthBridge', OKC 1163, and OKC 1131. In 2015, TifTuf, Celebration, and Latitude 36 used more water than Premier, OKC 1302, OKC 1163, OKC 1131, and Northbridge. Evapotranspiration rates in 2013, 2014, and 2015 ranged from 4.14 to 4.74 mm d^{-1}, 4.45 to 5.19 mm d^{-1}, and 3.60 to 5.15 mm d^{-1}, respectively. TifTuf consistently ranked in the highest ET group, whereas OKC 1131 consistently ranked in the lowest ET group. Averaged over the 24 dates in three years, OKC 1131 used 18.0% or 0.89 mm d^{-1} less water than TifTuf (Table 1).

A greenhouse-based trial was performed in Stillwater, OK at the OSU Ridge Road greenhouse facility. Thirteen bermudagrasses, including the industry standards Tifway and Celebration, and 11 experimental genotypes were evaluated for turf quality, leaf firing, normalized difference vegetative index (NDVI), and LGC at 0, 7, 14, and 21 days after initiating drought treatments (Table 2). Six experimental genotypes were from the OSU and included: OSUB 1131 (aka OKC 1131), OSUB 1163, OKC 1302, OSUB 111, OSUB 1117, and OSUB

1156. An additional five experimental genotypes were from the University of Georgia turfgrass breeding program and included: UGB 8, UGB 14, UGB 42, UGB 70, and UGB 79. Grasses were well established in 10.2 cm diameter x 45 cm depth PVC pipe in a uniformly sieved 1:1 mixture of sand and top soil. Drought treatments were imposed by completely withholding irrigation water for all entries during the experimental period. Results indicated that OKC 1131 had lower turf quality and LGC compared to all entries at 7 days after treatment (DAT). At 14 DAT, there were no differences among bermudagrass entries for any parameter. At 21 DAT, OKC 1131 had lower turf quality, leaf firing, LGC, and NDVI compared to OKC 1302 or OSUB 1117, but was no different from the industry standards, Tifway and Celebration, for turf quality, leaf firing, LGC, and NDVI.

Winterkill: The winter between 2013 and 2014 were extremely cold at several northern sites in the NTEP test, and OKC 1131 had the lowest winterkill ratings (Morris, 2015) (2014Table 21C). The NTEP report indicated that OKC 1131 had a winterkill rate [scale 0 – 99%, where 99%=complete kill] of 25.0% and was significantly more winter hardy than Tifway (99.0% winterkill), Celebration (98.7%), TifTuf (94.0%), Latitude 36 (73.3%), and Patriot (50.0%) at Lexington, KY. The NTEP test reported that OKC 1131 had a winterkill rate of 4.0% that was significantly better than Tifway (98.0%), Celebration (97.3%), and TifTuf (82.7%) but not different from Latitude 36 (41.3%) and Patriot (11.7%) at West Lafayette, IN. No winterkill information was reported for the winter between 2014 and 2015 in the test.

Frost Tolerance: OKC 1131 had a frost tolerance rating [scale 1 – 9, 9 = frost absent, maximum frost tolerance] collected in KY1 in 2013 that was statistically the same as that of four standard cultivars and TifTuf (2013Table 19C).

Seedhead Ratings: In NC, OKC 1131 had a seedhead rating [scale 1 – 9, 1 = complete seed head coverage of canopy and 9 = no seedheads present] in 2014 that was lower than Latitude 36 but similar to Tifway, TifTuf, Patriot, and Celebration (2014Table 31C). In 2015, its seedhead rating was the same as Celebration but lower than the other four cultivars (2015Table 35C).

Disease Response: Leaf spot disease incidence [scale 1 – 9, 9 = no disease] reported in AR in 2014 indicated OKC 1131 had a rating lower than Tifway, TifTuf and Latitude 36 but similar to Patriot and Celebration (2014Table 22C). The disease was observed in September 2014 (Richardson, personal communication, 2015). Ratings for dollar spot disease incidence were not statistically different from the four standard cultivars and TifTuf in both 2014 and 2015 (2014Table 23C; 2015Table 30C).

Insect Response: No significant insect damage has been reported on bermudagrass entries including OKC 1131 in the 2013 – 2018 NTEP trial thus far.

Nematode Response: Responses of OKC 1131 to nematodes in a field trial at Gainesville, FL was similar to the four standard cultivars and TifTuf in the 2013 – 2018 NTEP trial thus far (2015Table 19C, 3 pages).

Salinity Response: One greenhouse experiment was performed to evaluate salinity tolerance of 10 experimental bermudagrasses and two standards, Celebration and Tifway at College Station, TX (Chavariia et al., 2014). OKC 1131 was the top performer among the bermudagrass entries and had a better leaf firing rating than Tifway, but no difference from Celebration when tested in culture at 45 dS m^{-1}measured electrical conductivity.

Traffic Tolerance: As some entries were replanted in 2014 in the traffic trials in KY2 (Lexington, KY) and TN2 (Knoxville, TN), only the 2015 data were used. In the trial in KY2, OKC 1131 had similar traffic tolerance as Tifway, TifTuf, Patriot, and Latitude 36 but better than Celebration (2015Table 15C). The turf quality data in the trial in TN2 indicated OKC 1131 was statistically not different from four standard cultivars and TifTuf in traffic tolerance (2015Table 16C).

Herbicide Tolerance: OKC1131 has been subject to standard bermudagrass management regimes, including applications of Ronstar 2G (oxidiazon) and Strike Three (2,4-D+MCPP+dicamba) during both the dormant phase and periods of active growth and no herbicides injury symptoms were observed. No injury symptoms on OKC 1131 have been noted in spring following applications of glyphosate when applied at 24 -32 fl oz/A during the dormant season for winter annual weed control.

Sod Tensile Strength and Handling Quality: A replicated field trial was established to test sod tensile strength (STS) and sod handling quality (SHQ) (data not published, part of Segars' PhD thesis). In both 2015 and 2016, OKC 1131 had STS values lower than Tifway, similar to NorthBridge and Latitude 36, but better than 'Midlawn', while its SHQ was similar to that of Latitude 36, NorthBridge and Tifway and better than Midlawn. Based on the work of Han (2009) Latitude 36 (OKC1119), NorthBridge (OKC1134) and Tifway (Tifton 419) were found to have excellent or high STS and SHQ while Midlawn was found to have poor STS and SHQ and often minimally acceptable for sod production. The NTEP trial at Stillwater, OK, was used to measure STS and to rate SHQ. While OKC 1131 had an acceptable SHQ, OKC 1131 had lower STS than Latitude 36, Tifway, Patriot, Celebration, and TifTuf (Gopinath, 2015). OKC 1131 was also tested for sod tensile strength on a sod farm in OK. The on-farm trial indicated OKC 1131 had sufficient sod strength for harvest by standard sod farm harvest equipment.

Vertical Growth Rate: Low vertical growth rate can be a desired trait in turfgrasses as this can often lead to a reduced need for regular mowing and/or maintenance. A replicated field trial was established in 2014 to evaluate the vertical growth rate of bermudagrass industry standards Tifway, Midlawn, Latitude 36 and NorthBridge along with OSU experimental genotypes OKC 1131, OKC 1220, OKC 1221, OKC 1225, OKC 1257, and OKC 1273. Data were collected from replicated plots in 2015 and 2016. Results in 2015 indicate that OKC 1131 had a lower vertical growth rate than all of the industry standards tested. In 2016, the results showed that OKC 1131 had a similar vertical growth rate when compared to Tifway, Latitude 36, and NorthBridge, but was lower when compared to Midlawn.

Major Strengths and Comparative Performance: OKC 1131 is a new, high quality, interspecific hybrid turf bermudagrass that has exhibited exceptional winter survivability, a high

level of drought resistance, and wide adaptation. It has demonstrated excellent establishment characteristics, fine texture, high turf density, early green up, dark green color, and sufficient sod tensile strength for reliable commercial production.

AVAILABLE SOD: 5,000 square feet of Breeder class sod is available.

PROPOSED METHOD OF RELEASE: License a limited number of licensees, including entertaining the possibility of a single exclusive licensee to handle sublicensing rights. Licensees or sublicensees will have experience in producing proprietary varieties under pedigree stock production conditions in certification programs. Prospective licensees have expressed intense interest concerning when OKC1131 will be released and how the release and licensing procedure will be handled by OSU.

VARIETY PROTECTION: Submission for US Plant Patent Protection is desired.

PERSONNEL INVOLVED: Yanqi Wu, Dennis L. Martin, Justin Q. Moss, Nathan R. Walker, and Charles Fontanier

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Disclaimer: **"In the NTEP trials site cooperators are asked to rate the drought tolerance of trial entries under soil moisture deficit stress. However, without elucidation of the specific drought resistance mechanism at work at each test site the purported Drought Tolerance rating should probably be referred to as Drought Resistance."**

Table 1. Evapotranspiration rates (mm d^{-1}) of ten bermudagrass entries under non-limiting soil moisture conditions during Aug. and Sept. of 2013, 2014, and 2015 (Amgain et al., manuscript in preparation).

Entries[†]	Year 2013	Year 2014	Year 2015	Overall
DT-1	4.69 ab[‡]	5.11 ab	5.15 a	4.95 a
Celebration	4.55 bc	5.14 a	4.75 b	4.77 ab
OKC 1302	4.49 c	5.19 a	4.24 d	4.58 bc
Premier	4.69 ab	4.80 c	4.41 cd	4.63 b
TGS_U3	4.74 a	4.75 c	4.59 bc	4.69 ab
Tifway	4.18 d	5.09 ab	4.57 bc	4.54 bcd
Latitude 36	4.29 d	4.94 bc	4.69 b	4.59 bc
NorthBridge	4.59 abc	4.45 d	3.78 e	4.29 cde
OKC 1163	4.47 c	4.48 d	3.81 e	4.26 de
OKC 1131	4.14 d	4.51 d	3.60 e	4.06 e
CV (%)	7.19	6.19	10.34	21.0
Genotype	*	***	***	***
Date	***	***	***	-
Genotype x Date	NS	*	NS	-
Year	-	-	-	***
Genotype x Year	-	-	-	**

[†]ET rates were collected on 10 dates, 6 dates, and 8 dates during Aug. and Sept. of 2013, 2014, and 2015 respectively.

[‡]Means followed by same letters within each column are not significantly different at p= 0.05 significance level.

*, **, ***indicate significant at the $P = 0.05$, 0.01, and 0.001 levels, respectively, and NS = not significant at $P = 0.05$.

Table 2. Mean turf quality (TQ[z]), leaf firing (LF[y]), percent green cover (COVER[x]), and normalized difference vegetative index (NDVI[w]) of 13 bermudagrass entries at 7 through 21 days of drought stress.

ENTRY	7DAT[v]				14DAT				21DAT			
	TQ	LF	COVER	NDVI	TQ	LF	COVER	NDVI	TQ	LF	COVER	NDVI
Tifway	5.8	7.3	89.8	0.76	2.5	2.8	23.8	0.43	2.3	2.7	15.3	0.26
Celebration	5.8	7.2	88.5	0.71	2.8	3.5	28.4	0.45	2.7	2.7	19.1	0.23
OSUB 1131	5.2*[u]	5.7	74.2**	0.70	2.3	2.5	19.3	0.43	1.5	2.2	8.4	0.20
OSUB 1163	5.5	6.7	81.3	0.74	2.8	3.0	25.2	0.47	2.2	2.7	15.5	0.27
OKC 1302	6.7	7.6	95.2	0.78	3.5	3.8	32.0	0.50	2.7*	3.4*	20.7*	0.32**
OSUB 111	5.8	7.2	87.1	0.74	2.8	3.2	28.7	0.46	1.8	2.5	12.2	0.19
OSUB 1117	6.0	7.6	90.6	0.78	3.2	3.5	27.7	0.50	2.8*	3.1	20.4*	0.32**
OSUB 1156	5.8	6.5	83.6	0.77	2.7	3.0	26.1	0.50	2.0	2.5	10.6	0.23
UGB 8	6.3	7.6	90.8	0.79	2.5	2.7	20.0	0.45	2.0	2.5	11.5	0.21
UGB 14	5.5	6.3	80.8	0.73	2.5	3.0	23.2	0.41	1.5	2.3	10.1	0.20
UGB 42	5.8	7.5	85.2	0.75	2.5	3.0	25.2	0.44	1.8	2.5	11.9	0.19
UGB 70	6.2	7.3	87.1	0.74	2.8	3.3	28.2	0.44	2.0	2.7	13.6	0.22
UGB 79	6.0	7.6	93.1	0.76	3.3	3.7	30.8	0.47	1.8	2.5	11.7	0.25

[z]TQ = Turf quality ratings were based on 1-9 scale where 1 = lowest quality, 6 = acceptable quality and 9 = excellent quality.
[y]Leaf firing (LF) ratings were based on 1-9 scale where 1 = total leaf firing and 9 = no leaf firing.
[x]Percent green cover (COVER) was measured using SigmaScan software.
[w]Normalized difference vegetative index (NDVI) was measured using CM1000 NDVI meter (Spectrum Technologies, Plainfield, IL).
[v]Days after drought stress (DAT) started.
[u]Means within the same column followed by *, **, ***, **** are significantly different at p= 0.1, 0.05, 0.01, 0.001 level respectively using Nelson-Hsu mean comparison.

2013

TABLE 29C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2013 DATA 2/

NAME	KY2
FAES 1325	41.7
OKC 1131	41.7
ASTRO	40.0
CELEBRATION	40.0
11-T-251	38.3
PATRIOT	38.3
FAES 1326	36.7
JSC 2-21-1-V	36.7
MSB 281	36.7
11-T-510	35.0
LATITUDE 36	33.3
DT-1	31.7
JSC 2-21-18-V	31.7
OKC 1163	31.7
OKC 1302	31.7
TIFWAY	30.0
FAES 1327	23.3
LSD VALUE	7.6
C.V. (%)	13.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 32C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT AUBURN, AL 2/
2013-14 DATA

NAME	AUGUST	OCTOBER	MARCH	MEAN
OKC 1163	43.3	93.0	99.0	78.4
OKC 1131	40.0	96.0	96.0	77.3
JSC 2-21-1-V	43.3	86.3	96.0	75.2
JSC 2-21-18-V	40.0	86.3	96.0	74.1
DT-1	30.0	86.7	99.0	71.9
PATRIOT	33.3	76.7	93.0	67.7
FAES 1326	33.3	73.3	92.7	66.4
FAES 1325	40.0	76.7	80.0	65.6
ASTRO	30.0	80.0	86.3	65.4
11-T-251	33.3	63.3	96.0	64.2
LATITUDE 36	23.3	76.3	92.7	64.1
11-T-519	23.3	70.0	93.0	62.1
CELEBRATION	26.7	73.3	86.3	62.1
OKC 1302	20.0	66.7	80.0	55.6
TIFWAY	13.3	60.0	80.0	51.1
MSB 281	16.7	56.7	66.7	46.7
FAES 1327	10.0	50.0	73.3	44.4
LSD VALUE	20.4	14.8	16.5	13.0
C.V. (%)	36.3	12.1	10.2	12.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 33C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT JAY, FL 2/ 2013 DATA

NAME	AUG	SEP_4	SEP_18	OCT	NOV	MEAN
CELEBRATION	55.0	66.7	97.7	97.7	99.0	83.2
OKC 1163	40.0	53.3	99.0	99.0	99.0	78.1
JSC 2-21-18-V	40.0	56.0	99.0	99.0	99.0	77.4
FAES 1325	38.3	43.3	97.7	99.0	99.0	75.5
11-T-510	33.3	41.7	97.7	99.0	99.0	74.1
DT-1	30.0	40.0	96.3	99.0	99.0	72.9
PATRIOT	23.3	35.0	93.3	97.7	97.7	69.4
FAES 1326	25.0	30.0	91.3	94.7	97.7	67.7
11-T-251	26.7	35.0	89.3	92.7	94.3	67.6
OKC 1131	23.3	30.0	88.3	96.3	97.7	67.1
ASTRO	20.0	26.7	83.3	91.3	97.7	63.8
JSC 2-21-1-V	16.7	25.0	80.6	85.0	89.7	59.3
OKC 1302	15.0	21.7	78.3	83.3	93.3	58.3
LATITUDE 36	15.6	21.7	61.7	71.3	74.7	48.9
MSB 281	21.7	16.7	58.3	60.0	71.7	45.7
TIFWAY	18.3	15.0	61.7	63.3	69.7	45.6
FAES 1327	10.6	16.7	43.3	46.7	50.0	33.3
LSD VALUE	16.0	18.8	23.9	24.8	24.6	16.2
C.V. (%)	35.4	33.3	16.8	16.3	15.1	15.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 34C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT GRIFFIN, GA 2/
2014 DATA

NAME	SUMMER	EARLY FALL	LATE FALL	MEAN
JSC 2-21-1-V	89.7	99.0	99.0	95.9
PATRIOT	86.7	99.0	99.0	94.9
JSC 2-21-18-V	86.3	99.0	99.0	94.8
CELEBRATION	76.7	96.0	99.0	90.6
11-T-251	65.0	99.0	99.0	87.7
DT-1	66.3	96.0	99.0	87.1
OKC 1163	63.0	99.0	99.0	87.0
OKC 1131	59.7	99.0	99.0	85.9
ASTRO	53.3	93.0	99.0	81.8
OKC 1302	50.0	96.0	99.0	81.7
LATITUDE 36	70.0	83.0	89.3	80.8
11-T-510	46.7	93.0	99.0	79.6
TIFWAY	56.7	83.3	86.3	75.4
FAES 1326	56.7	83.0	86.0	75.2
FAES 1325	50.0	83.3	86.7	73.3
FAES 1327	43.3	86.7	86.7	72.2
MSB 281	50.0	73.0	83.0	68.7
LSD VALUE	76.3	27.3	24.8	34.6
C.V. (%)	41.4	12.3	10.1	15.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 35C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT WEST LAFAYETTE, IN 2/
2013 DATA

NAME	JUL_12	JUL_25	MEAN
OKC 1163	96.7	97.3	97.0
PATRIOT	97.3	96.0	96.7
JSC 2-21-18-V	92.3	98.3	95.3
FAES 1326	99.0	91.0	95.0
DT-1	91.3	97.7	94.5
FAES 1325	86.0	97.7	91.8
ASTRO	83.0	99.0	91.0
11-T-510	74.0	99.0	86.5
JSC 2-21-1-V	72.7	99.0	85.8
MSB 281	70.3	94.7	82.5
CELEBRATION	71.0	93.7	82.3
LATITUDE 36	72.3	88.a	80.2
OKC 1131	61.0	94.3	77.7
TIFWAY	88.3	66.7	77.5
OKC 1302	64.7	88.3	76.5
11-T-251	48.3	96.3	72.3
FAES 1327	64.7	56.3	60.5
LSD VALUE	58.7	20.5	22.4
C.V. (%)	28.6	12.3	13.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 36C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT WICHITA, KS 1/
2013 DATA

NAME	JULY	AUGUST	SEPTEMBER	MEAN
FAES 1325	38.3	83.3	95.0	72.2
PATRIOT	45.0	73.3	93.3	70.6
11-T-510	22.3	76.7	94.3	64.4
DT-1	16.7	75.0	96.0	62.6
CELEBRATION	23.3	75.0	86.7	61.7
ASTRO	23.3	70.0	90.0	61.1
11-T-251	14.0	73.3	91. 7	59.7
JSC 2-21-1-V	13.0	70.0	93.3	58.8
JSC 2-21-18-V	12.7	70.0	91. 7	58.1
OKC 1163	14.3	68.3	91.7	58.1
OKC 1131	14.7	68.3	90.0	57.7
FAES 1326	9.3	58.3	85.0	50.9
LATITUDE 36	10.0	56.7	85.0	50.6
OKC 1302	10.0	55.0	83.3	49.4
TIFWAY	9.3	53.3	81. 7	48.1
MSB 281	8.0	45.0	76.7	43.2
FAES 1327	8.0	35.0	71.7	38.2
LSD VALUE	13.1	15.0	7.9	9.1
C.V. (%)	45.7	14.0	5.5	10.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 37C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT LEXINGTON, KY 2/
2013 DATA

NAME	SEPTEMBER	OCTOBER	MEAN
11-T-2S1	55.0	78.3	66.7
OKC 1131	48.3	78.3	63.3
PATRIOT	46.7	73.3	60.0
11-T-510	48.3	70.0	59.2
ASTRO	45.0	73.3	59.2
JSC 2-21-1-V	51.7	66.7	59.2
DT-1	48.3	66.7	57.5
OKC 1163	43.3	71.7	57.5
CELEBRATION	45.0	66.7	55.8
FAES 1326	41.7	66.7	54.2
FAES 1325	50.0	53.3	51.7
LATITUDE 36	38.3	65.0	51.7
JSC 2-21-18-V	45.0	56.7	50.8
MSB 281	38.3	58.3	48.3
OKC 1302	36.7	53.3	45.0
TIFWAY	31. 7	55.0	43.3
FAES 1327	30.0	31.7	30.8
LSD VALUE	9.1	10.6	5.2
C.V. (%)	12.3	10.5	6.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 39C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT COLUMBIA, MO 21/
2013 DATA

NAME	SUMMER	FALL	MEAN
11-T-510	76.7	96.0	86.3
11-T-251	71.7	93.3	82.5
DT-1	66.7	95.0	80.8
PATRIOT	66.7	93.3	80.0
FAES 1325	63.3	96.0	79.7
OKC 1131	65.0	93.3	79.2
JSC 2-21-18-V	63.3	93.3	78.3
CELEBRATION	61.7	94.3	78.0
LATITUDE 36	63.3	91.7	77.5
JSC 2-21-1-V	60.0	91.7	75.8
ASTRO	60.0	90.0	75.0
FAE5 1326	58.3	88.3	73.3
OKC 1163	53.3	91.7	72.5
OKC 1302	58.3	86.7	72.5
TIFWAY	55.0	78.3	66.7
MSB 281	46.7	81.7	64.2
FAE5 1327	38.3	70.0	54.2
LSD VALUE	16.7	8.9	8.4
C.V. (%)	14.7	5.9	6.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 40C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE CULTIVARS 1/
AT MISS. ST. , M 2/
2613 DATA

NAME	4-WEEKS	6-WEEKS	7-WEEKS	8-WEEKS	9-WEEKS	11-WEEKS	MEAN
CELEBRATION	55.6	96.6	99.6	99.6	99.6	99.6	91.2
PATRIOT	53.3	94.3	98.7	99.6	99.6	99.6	96.6
FAES 1325	56.0	96.3	98.7	99.6	99.6	99.0	96.3
11-T-516	55.0	96.6	98.7	99.6	99.6	99.0	96.1
JSC 2-21-1-V	48.3	95.6	99.6	99.6	99.0	99.6	89.9
ASTRO	51.7	91.7	98.3	99.6	99.0	99.0	89.8
11-T-251	45.0	97.3	99.6	99.6	99.0	99.6	89.7
DT-1	41.7	94.3	99.6	99.6	99.0	99.6	88.7
OKC 1131	46.6	95.6	99.6	99.6	99.6	99.6	88.5
FAES 1326	41.7	96.6	99.6	99.6	99.6	99.0	87.9
JSC 2-21-18-V	45.0	88.3	97.3	98.7	99.6	99.0	87.9
OKC 1163	38.3	83.3	97.6	98.3	98.7	99.0	85.8
LATITUDE 36	36.0	83.3	98.7	99.6	99.0	99.6	84.8
OKC 1362	36.0	81. 7	98.0	98.7	99.0	99.0	84.4
TIFWAY	26.7	80.6	97.7	98.7	99.0	99.0	83.5
FAES 1327	36.6	76.7	88.3	95.7	94.7	98.7	80.7
MSB 281	28.3	71. 7	84.3	91.3	93.0	99.0	77.9
LSD VALUE	11.9	6.1	4.0	4.1	4.1	0.4	3.3
C.V. (%)	17.2	4.4	2.6	2.1	2.0	6.1	2.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDIN LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 41C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT RALEIGH, N 2/
2013 DATA

NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
OKC 1131	16.7	55.0	91.7	97.7	65.3
ASTRO	16.7	56.7	83.3	91.3	62.0
JSC 2-21-1-V	16.7	46.7	85.0	91.3	59.9
JSC 2-21-18-V	16.7	46.7	85.0	90.0	59.6
FAES 1325	21.7	53.3	75.0	86.7	59.2
FAES 1326	18.3	53.3	78.3	86.7	59.2
PATRIOT	20.0	58.3	73.3	85.0	59.2
DT-1	13.3	41.7	85.0	93.0	58.3
CELEBRATION	18.3	55.0	71.7	85.0	57.5
OKC 1163	18.3	40.0	75.0	88.3	55.4
11-T-251	15.0	48.3	71.7	81.7	54.2
11-T-510	13.3	45.0	65.0	80.0	50.8
OKC 1302	13.3	28.3	58.3	80.0	45.0
LATITUDE 36	13.3	31.7	60.0	70.0	43.8
MSB 281	15.0	31.7	51.7	63.3	40.4
FAES 1327	11.7	33.3	53.3	60.0	39.6
TIFWAY	10.0	25.0	46.7	63.3	36.3
LSD VALUE	8.1	18.1	15.9	17.9	11.6
C.V. (%)	23.6	22.7	13.6	12.3	13.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 42C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT STILLWATER, OK 2/
2013 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
FAES 1325	43.3	90.0	66.7
ASTRO	43.3	88.3	65.8
OKC 1131	40.0	88.3	64.2
DT-1	31.0	88.3	59.7
FAES 1326	31.7	86.7	59.2
CELEBRATION	36.0	81.7	58.8
11-T-510	30.0	82.5	56.3
JSC 2-21-1-V	26.7	85.0	55.8
11-T-251	26.7	81.7	54.2
OKC 1163	25.0	75.0	50.0
OKC 1302	22.7	73.3	48.0
FAES 1327	21.7	73.3	47.5
JSC 2-21-18-V	21.0	73.3	47.2
TIFWAY	20.3	70.0	45.2
PATRIOT	13.3	40.0	26.7
MSB 281	13.0	30.0	21.5
LATITUDE 36	10.7	26.7	18.7
LSD VALUE	6.1	8.7	5.6
C.V. (%)	14.8	8.0	7.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 43C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/ AT KNOXVILLE, TN 2/
2013 DATA

NAME	JULY	AUGUST	SEPTEMBER	MEAN
JSC 2-21-18-V	48.3	88.3	92.3	76.3
DT-1	50.0	82.3	92.3	74.9
LATITUDE 36	46.7	83.3	93.3	74.4
OKC 1131	45.0	76.7	94.3	72.0
JSC 2-21-1-V	40.0	83.3	91.3	71.6
11-T-510	40.0	76.7	97.7	71.4
11-T-251	33.3	86.7	94.0	71.3
OKC 1163	35.0	85.0	92.7	70.9
ASTRO	36.7	81.7	92.0	70.1
TIFWAY	36.7	80.0	92.7	69.8
FAES 1326	30.0	84.3	93.3	69.2
FAES 1325	36.7	75.0	89.0	66.9
PATRIOT	30.0	80.0	89.7	66.6
MSB 281	31.7	78.3	89.0	66.3
OKC 1302	36.7	74.3	86.0	65.7
FAES 1327	25.0	70.0	90.7	61.9
CELEBRATION	23.3	61.7	91.0	58.7
LSD VALUE	26.9	30.6	12.6	15.8
C.V. (%)	29.7	13.8	4.8	9.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 44C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT KNOXVILLE (TRAFFIC STUDY), TN 2/
2013 DATA

NAME	JULY	AUGUST	SEPTEMBER	MEAN
CELEBRATION	41.7	94.3	96.0	77.3
FAES 1325	58.3	89.0	83.0	76.8
OKC 1131	40.0	95.0	93.0	76.0
PATRIOT	43.3	88.3	92.7	74.8
FAES 1326	45.0	86.0	92.0	74.3
ASTRO	43.3	88.3	89.0	73.6
11-T-510	38.3	86.7	94.7	73.2
LATITUDE 36	40.0	85.0	92.3	72.4
11-T-251	35.0	86.0	94.3	71.8
OKC 116	45.0	82.3	88.0	71.8
JSC 2-21-1-V	38.3	85.0	86.3	69.9
JSC 2-21-18-V	40.0	81.7	87.0	69.6
OKC 130	41.7	80.0	87.0	69.6
MSB 281	23.3	85.0	98.0	68.8
DT-1	35.0	80.0	86.0	67.0
TIFWAY	30.0	71.7	94.0	65.2
FAES 1327	31.7	65.0	96.0	64.2
LSD VALUE	18.9	7.0	5.0	5.2
C.V. (%)	22.7	5.3	3.3	4.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 45C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
AT COLLEGE STATION, TX 2/
2013-14 DATA

NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	APRIL	MEAN
ASTRO	65.0	96.0	99.0	99.0	99.0	91.6
CELEBRATION	60.0	89.3	99.0	99.0	99.0	89.3
FAES 1325	46.7	91.3	99.0	99.0	99.0	87.0
OKC 1131	41.7	93.0	99.0	99.0	99.0	86.3
11-T-510	33.3	93.0	99.0	99.0	99.0	84.7
11-T-251	30.0	93.3	99.0	99.0	99.0	84.1
PATRIOT	50.0	76.7	96.0	96.0	97.7	83.3
JSC 2-21-1-V	33.3	85.0	99.0	99.0	99.0	83.1
DT-1	28.3	88.0	99.0	99.0	99.0	82.7
LATITUDE 36	28.3	85.0	99.0	99.0	99.0	82.1
OKC 1302	25.0	88.3	99.0	99.0	99.0	82.1
J5C 2-21-18-V	26.7	81.7	99.0	99.0	99.0	81.1
FAES 1326	23.3	83.3	99.0	99.0	99.0	80.7
FAES 1327	23.3	71.7	96.3	97.7	99.0	77.6
TIFWAY	20.0	60.0	94.7	97.7	99.0	74.3
OKC 1163	26.7	75.0	84.7	88.0	94.7	73.8
MSB 281	20.0	61.7	75.0	83.0	78.0	63.5
LSD VALUE	25.4	31.0	16.4	11.7	9.2	13.9
C.V. (%)	39.6	16.6	8.0	5.6	5.1	8.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2013

TABLE 46C. PERCENT ESTABLISHMENT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/ AT BLACKSBURG, VA 2/
2013 DATA

NAME	JULY	AUGUST	SEPTEMBER	MEAN
PATRIOT	51.7	83.3	99.0	78.0
FAES 1325	41.7	86.7	93.0	73.8
OKC 1163	36.7	81.7	94.7	71.0
FAES 1326	45.0	78.3	85.0	69.4
CELEBRATION	40.0	73.3	86.3	66.6
OKC 1302	41.7	70.0	86.7	66.1
OKC 1131	38.3	73.3	85.0	65.6
11-T-510	33.3	70.0	88.3	63.9
ASTRO	38.3	73.3	80.0	63.9
MSB 281	40.0	65.0	81.7	62.2
LATITUDE 36	36.7	63.3	85.0	61.7
JSC 2-21-18-V	30.0	66.7	81.7	59.4
DT-1	31.7	56.7	83.3	57.2
TIFWAY	36.7	63.3	71.7	57.2
11-T-251	30.0	53.3	86.7	56.7
FAES 1327	28.0	58.3	80.0	55.4
JSC 2-21-1-V	30.0	60.0	73.3	54.4
LSD VALUE	14.7	16.4	22.5	11.9
C.V. (%)	19.2	13.1	11.1	10.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2014

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BERMUDAGRASS CULTIVARS
2014 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY MEAN	MAXIMUM IN TOP 25%
DT-1	6.6	86.7
OKC 1163	6.6	73.3
JSC 2-21-18-V	6.5	80.0
OKC 1131	6.5	46.7
11-T-510	6.4	60.0
LATITUDE 36	6.4	80.0
JSC 2-21-1-V	6.3	53.3
11-T-251	6.1	40.0
JSC 2007-13-S	6.0	20.0
OKC 1302	6.0	26.7
PATRIOT	6.0	46.7
RIVIERA	6.0	13.3
JSC 2007-8-S	5.9	20.0
TIFWAY	5.9	20.0
ASTRO	5.8	0.0
FAES 1325	5.8	26.7
FAES 1326	5.8	13.3
JSC 2009-2-S	5.8	13.3
JSC 2009-6-S	5.8	13.3
MBG 002	5.8	6.7
FAES 1327	5.6	6.7
BAR C291	5.5	13.3
CELEBRATION	5.5	6.7
PRINCESS 77	5.5	0.0
PST-R6CT	5.5	0.0
12-TSB-1	5.4	0.0
OKS 2011-1	5.4	0.0
OKS 2011-4	5.4	6.7
YUKON	5.4	6.7
KASHMIR (PST-R6P0)	5.3	0.0
MSB 281	5.2	6.7
OKS 2009-3	5.2	0.0
PST-R6T9S	5.2	0.0
NORTH SHORE SLT	5.1	6.7
NUMEX-SAHARA	4.7	6.7
LSD VALUE	0.2	
C.V. (%)	9.7	

*/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

**/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ MAXIMUM IN TOP 25% THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BERMUDAGRASS CULTIVARS */
2015 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF **/

NAME	QUALITY MEAN	MAXIMUM IN TOP 25%
JSC2-21-18-V	6.7	92.9
TIFTUF (DT -1)	6.7	71.4
OKC 1131	6.6	78.6
JSC 2-21-1-V	6.5	64.3
11-T-510	6.4	57.1
LATITUDE 36	6.3	78.6
OKC 1163	6.3	57.1
OKC 1302	6.1	50.0
PATRIOT	6.1	42.9
ASTRO	6.0	21.4
RIVIERA	5.9	14.3
JSC 2007-13-S	5.8	7.1
TIFWAY	5.8	21.4
FAES 1326	5.7	14.3
JSC 2007-8-S	5.7	0.0
JSC 2009-2-S	5.7	7.1
JSC 2009-.6-S	5.7	21.4
MBG 002	5.7	14.3
11-T-251	5.6	28.6
FAES 1325	5.6	28.6
OKS 2011-1	5.6	7.1
FAES 1327	5.5	14.3
YUKON	5.4	14.3
BAR C291	5.2	7.1
CELEBRATION	5.2	0.0
OKS 2011-4	5.2	0.0
PRINCESS 77	5.2	0.0
12- TSB-1	5.1	7.1
OKS 2009-3	5.1	0.0
KASHMIR (PST-R6PO)	5.0	0.0
PST-R6CT	5.0	0.0
MSB 281	4.8	7.1
NORTH SHORE SLT	4.7	0.0
PST-R6T9S	4.6	0.0
NUMEX-SAHARA	4.5	7.1
LSD VALUE	0.2	
C.V. (%)	8.1	

*/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
**/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.
2/ MAXIMUM IN TOP 25% THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.

2014

TABLE 9C. GENETIC COLOR RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	AL1	AR1	CA3	FL3	IN1	KS2	KY1	MO1	MS1	NC1	OK1	TN1	TX2	MEAN
11-T-51a	8.3	8.3	8.0	7.3	8.3	8.3	7.0	7.3	6.7	7.7	8.0	7.7	7.7	7.7
CELEBRATION	8.7	7.0	7.7	7.0	9.0	9.0	7.0	7.0	7.0	8.3	7.0	8.7	7.0	7.7
TIFWAY	7.3	7.7	8.3	8.0	8.0	8.0	7.3	7.0	6.7	8.0	8.0	7.3	7.0	7.6
11-T-251	6.0	7.0	8.0	8.3	8.3	8.3	7.3	7.7	7.0	7.7	7.3	6.7	7.3	7.5
PATRIOT	8.7	8.7	9.0	8.7	6.7	9.0	5.7	8.0	6.0	8.0	7.7	4.7	6.0	7.4
FAES 1327	7.7	7.0	7.7	8.0	8.0	8.7	7.3	6.7	6.7	7.7	6.7	6.0	7.0	7.3
FAES 1325	8.0	7.7	7.7	7.3	8.3	8.0	5.3	7.3	6.3	8.0	7.3	6.3	7.3	7.3
OKC 1302	7.7	8.0	7.0	8.3	7.3	6.7	7.0	7.3	6.0	7.7	7.7	7.0	7.0	7.3
FAES 1326	6.3	7.7	8.3	7.7	8.0	7.0	7.0	7.0	6.3	8.0	7.3	5.7	7.0	7.2
OKC 1131	5.3	8.0	8.0	7.7	7.0	7.7	5.0	8.0	6.0	8.0	8.0	7.0	7.7	7.2
DT-1	7.7	7.0	7.7	7.7	7.3	7.3	7.7	6.7	6.0	7.7	6.7	5.7	7.7	7.1
LATITUDE 36	6.7	7.0	7.3	8.0	7.7	6.3	6.7	8.0	6.0	8.0	8.0	6.0	7.0	7.1
MSB 281	5.7	6.3	7.3	7.0	8.7	5.7	6.3	7.7	7.0	7.7	7.3	6.3	7.3	6.9
JSC 2-21-1-V	6.7	6.7	6.7	8.0	7.0	5.0	6.7	7.0	6.0	7.3	8.0	5.3	6.7	6.7
JSC 2-21-18-V	7.0	7.0	6.7	8.3	6.0	6.3	6.3	6.0	6.0	7.0	7.0	5.0	7.3	6.6
OKC 1163	5.7	7.0	7.0	7.7	5.3	6.0	6.3	5.7	5.3	7.0	7.3	5.3	7.7	6.4
ASTRO	6.0	6.0	7.3	6.7	6.0	6.0	5.7	7.0	6.0	7.0	6.7	5.0	7.0	6.3
LSD VALUE	1.5	1.4	0.7	1.0	1.2	0.9	1.2	1.1	0.6	0.6	0.7	2.2	1.0	0.3
C.V. (%)	13.1	12.1	6.1	8.1	1.3	7.5	11.1	9.4	5.4	5.2	6.0	22.0	8.3	10.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD a.a5).

2/ C.V (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 20C. GENETIC COLOR RATINGS OF BERMUDAGRASS (VEGETATIVE) CUL TIVARS 1/

2015 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	AL1	AR1	CA3	FL3	GA1	IN1	KS2	M01	MS1	NC1	OK1	TN1	MEAN
PATRIOT	7.7	8.7	5.7	8.3	7.0	6.7	8.0	6.0	6.0	7.7	7.7	7.0	7.2
11-T-510	8.3	8.3	7.3	7.3	7.0	5.7	7.7	5.3	6.7	7.0	7.0	8.3	7.2
OKC 1131	7.3	8.0	6.7	6.7	6.3	7.3	8.0	5.0	6.3	8.0	8.0	8.0	7.1
FAES 1325	8.0	7.7	7.0	7.7	6.3	5.3	8.0	2.7	6.3	7.0	7.3	8.3	6.8
11-T-251	7.3	7.0	7.0	7.0	6.7	7.0	7.7	1.0	6.3	7.7	7.7	8.0	6.7
TIFWAY	9.0	7.7	7.3	8.0	6.7	6.0	6.7	1.0	6.3	7.0	7.0	7.7	6.7
LATITUDE 36	6.7	7.0	7.0	7.0	6.7	8.0	6.7	4.3	6.0	7.0	6.7	7.0	6.7
CELEBRATION	8.3	7.0	6.0	7.0	6.0	5.7	8.0	1.0	6.0	8.0	7.7	8.7	6.6
TIFTUF (DT -1)	8.0	7.0	7.0	7.7	6.3	6.7	5.7	4.3	6.0	6.3	6.3	7.7	6.6
FAES 1326	7.0	7.7	7.3	7.3	5.7	6.3	6.3	2.7	6.0	7.7	6.3	8.3	6.6
OKC 1302	7.7	8.0	6.7	7.3	6.7	6.7	6.3	3.0	6.7	7.0	6.0	6.3	6.5
FAES 1327	7.7	7.0	6.3	7.7	6.3	6.0	6.7	1.0	6.3	7.3	7.0	7.3	6.4
JSC 2-21-18-V	6.7	7.0	7.3	6.0	7.0	7.7	5.0	5.0	6.0	6.0	5.0	7.7	6.4
JSC 2-21-1-V	6.3	6.7	7.0	6.7	7.0	8.0	5.0	4.3	6.0	6.3	5.0	7.3	6.3
OKC 1163	7.3	7.0	7.0	7.0	5.3	7.3	5.7	4.7	5.7	6.0	5.0	5.7	6.1
ASTRO	5.0	6.0	6.3	6.0	6.0	5.7	5.3	4.7	5.0	6.0	6.0	6.3	5.7
MSB 281	5.3	6.3	6.3	6.3	6.0	6.3	5.0	1.0	6.0	6.7	6.0	5.7	5.6
LSD VALUE	1.4	1.4	0.7	0.8	0.8	1.0	0.7	3.8	0.6	0.6	0.6	1.6	0.4
C.V. (%)	11.5	12.1	6.5	7.1	7.9	9.0	6.7	69.6	6.5	5.3	5.6	13.7	13.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 11C. LEA TEXTURE RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2013-14 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	ARI	INI	KS2	MO1	MSI	NCI	OKI	TX2	MEAN
OKC 1163	9.0	9.0	9.0	8.0	8.0	9.0	8.0	8.7	8.6
JSC 2-21-18-V	8.0	7.2	8.0	7.7	7.0	8.3	8.0	7.3	7.7
JSC 2-21-1-V	8.0	7.3	8.3	7.7	7.0	8.0	7.7	7.0	7.6
LATITUDE 36	8.0	7.7	8.0	7.7	7.0	8.0	7.3	7.0	7.6
OKC 1131	8.0	7.3	7.7	8.0	6.7	7.7	7.0	7.0	7.4
FAES 1327	7.3	7.5	7.3	7.0	6.3	8.0	7.0	8.0	7.3
MSB 281	7.0	7.8	7.3	8.3	7.0	7.7	6.3	7.0	7.3
II-T-251	7.0	7.8	7.7	7.3	6.7	8.0	7.0	6.7	7.3
TIFWAY	7.3	7.2	7.3	6.7	7.0	8.0	7.0	7.7	7.3
OKC 1302	7.7	7.2	8.0	7.0	6.3	7.3	7.0	7.0	7.2
DT-1	7.7	6.8	7.7	6.7	7.0	7.3	7.0	7.0	7.1
11-T-510	7.0	5.5	8.0	7.3	6.7	7.7	7.0	6.7	7.0
FAES 1326	7.7	6.0	7.0	7.0	6.0	7.7	7.0	7.0	6.9
PATRIOT	7.3	6.0	6.7	7.0	5.7	7.0	7.0	5.3	6.5
ASTRO	6.7	5.7	6.0	5.7	6.7	6.7	6.3	6.0	6.2
CELEBRATION	5.0	5.7	6.3	6.3	6.0	7.0	6.7	6.0	6.1
FAES 1325	6.0	4.7	5.7	5.7	6.3	7.0	7.0	6.0	6.0
LSD VALUE	0.8	1.1	0.9	0.8	0.6	0.6	0.5	0.6	0.3
C.V. (%)	6.9	14.^	7.6	7.4	5.9	5.2	4.4	5.0	8.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 22C. LEAF TEXTURE RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1 / 2015 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	AL1	AR1	IN1	KS2	MS1	NC1	OK1	TN1	MEAN
OKC 1163	9.0	9.0	8.3	8.7	8.0	7.0	8.0	1.0	7.4
JSC 2-21-18-V	7.7	7.7	7.3	8.0	7.0	7.0	7.7	1.7	6.8
LATITUDE 36	8.0	8.0	7.7	7.7	7.0	6.3	6.7	2.0	6.7
OKC 1131	7.7	8.3	7.0	6.7	7.0	7.0	6.3	2.0	6.5
JSC 2-21-1-V	7.7	8.0	7.3	7.7	6.3	6.7	6.3	1.3	6.4
TIFTUF (DT -1)	7.0	7.7	6.7	7.0	7.0	6.0	7.0	1.7	6.3
FAES 1326	7.3	8.0	6.3	7.0	5.7	6.0	6.7	2.3	6.2
OKC 1302	6.0	8.0	6.7	7.3	6.0	6.7	6.7	2.0	6.2
11 - T -251	6.7	7.0	7.0	7.0	6.7	6.0	6.7	2.0	6.1
TIFWAY	6.0	7.0	7.0	6.3	7.0	6.0	7.0	2.0	6.0
PATRIOT	6.7	7.0	7.0	5.7	6.0	6.0	6.7	3.0	6.0
MSB 281	7.0	6.7	7.0	5.0	7.0	6.3	6.3	2.3	6.0
FAES 1327	5.3	7.0	7.0	6.3	6.0	6.0	7.0	2.0	5.8
11-T-510	6.7	6.3	6.0	6.7	6.3	6.0	6.3	1.3	5.7
FAES 1325	5.7	6.3	5.7	6.3	5.7	6.0	7.0	3.0	5.7
ASTRO	4.7	6.3	6.3	5.7	6.0	5.7	6.3	2.7	5.5
CELEBRATION	4.7	4.3	6.0	6.0	5.7	6.0	7.0	2.7	5.3
LSD VALUE	1.6	0.7	0.9	0.7	0.6	0.5	0.8	1 .1	0.3
C.V. (%)	14.8	6.4	7.9	6.9	5.3	5.0	7.7	32.6	9.4

1 / TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2014

TABLE 13C. SPRING DENSITY RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	CA3	FL3	OK1	MEA
OKC 1163	6.7	8.0	8.0	7.6
11-T-510	7.3	7.3	6.7	7.1
DT-1	7.3	7.0	7.0	7.1
JSC 2-21-18-V	7.0	7.0	7.0	7.0
LATITUDE 36	7.3	6.7	7.0	7.0
11-T-251	6.7	7.0	7.0	6.9
FAES 1326	7.7	6.0	7.0	6.9
TIFWAY	7.3	6.3	7.0	6.9
OKC 1302	7.0	6.3	7.0	6.8
FAES 1325	6.7	6.3	7.0	6.7
CELEBRATION	7.0	5.7	7.0	6.6
ASTRO	6.0	6.0	7.0	6.3
JSC 2-21-1-V	6.0	6.0	7.0	6.3
OKC 1131	6.0	6.0	7.0	6.3
PATRIOT	5.7	6.3	7.0	6.3
FAES 1327	5.3	5.7	7.0	6.0
MSB 281	5.0	6.0	4.3	5.1
LSD VALUE	1.1	1.2	0.6	0.6
C.V. (%)	10.0	11.7	5.8	9.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2014

TABLE 14C. SUMMER DENSITY RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	CA3	FL3	IN1	NC1	OK1	MEAN
DT-1	7.7	6.7	8.3	8.0	8.0	7.7
11-T-251	7.7	7.0	8.0	8.0	7.7	7.7
JSC 2-21-18-V	6.3	7.3	8.7	8.0	8.0	7.7
JSC 2-21-1-V	7.7	7.0	8.0	7.3	8.0	7.6
LATITUDE 36	6.3	6.7	8.7	8.3	8.0	7.6
OKC 1131	6.3	6.3	8.7	8.3	8.0	7.5
OKC 1163	5.7	7.0	8.0	8.3	8.0	7.4
11-T-510	7.3	7.3	7.0	7.3	7.3	7.3
TIFWAY	6.3	7.0	7.3	7.7	7.7	7.2
MSB 281	7.3	6.0	8.7	8.3	5.3	7.1
FAES 1327	7.0	6.0	7.3	7.7	7.3	7.1
FAES 1326	6.7	6.7	7.0	6.7	7.7	6.9
OKC 1302	6.0	6.7	7.3	7.3	7.3	6.9
PATRIOT	5.3	7.0	7.7	7.0	7.7	6.9
FAES 1325	6.0	7.0	6.0	6.7	7.3	6.6
ASTRO	6.7	6.0	7.3	5.7	7.0	6.5
CELEBRATION	5.7	6.0	6.0	6.7	7.3	6.3
LSD VALUE	1.0	0.8	1.1	1.0	0.8	0.4
C.V. (%)	9.5	7.6	9.2	8.1	6.7	8.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2014

TABLE 15C. FALL DENSITY RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	CA3	FL3	NC1	OK1	MEAN
DT-1	8.3	6.3	8.0	8.0	7.7
OKC 1131	8.0	7.0	7.7	8.0	7.7
OKC 1163	7.7	6.7	8.0	8.0	7.6
11-T-2s1	7.0	7.7	7.7	7.7	7.5
11-T-s10	8.3	7.0	7.3	7.3	7.5
JSC 2-21-18-V	7.3	7.0	7.7	8.0	7.5
LATITUDE 36	7.3	7.0	7.7	8.0	7.5
TIFWAY	8.0	7.0	7.7	7.0	7.4
JSC 2-21-1-V	7.3	6.7	7.3	8.0	7.3
FAES 1326	8.0	6.3	7.0	7.7	7.3
FAES 1325	7.7	6.3	7.3	7.3	7.2
CELEBRATION	7.0	7.0	7.0	7.3	7.1
FAES 1327	6.7	6.3	8.0	7.3	7.1
OKC 1302	7.3	6.0	6.7	7.3	6.8
PATRIOT	6.3	6.0	7.3	7.7	6.8
MSB 281	6.7	6.3	7.7	5.0	6.4
ASTRO	7.0	5.3	6.3	7.0	6.4
LSD VALUE	1.3	1.0	0.9	0.8	0.5
C.V. (%)	11.2	9.0	7.3	7.0	8.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY' MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 23C. SPRING DENSITY RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	CA3	FL3	NC1	OK1	MEAN
JSC 2-21-18-V	8.3	7.0	5.3	8.0	7.7	7.3
OKC 1131	8.3	6.3	5.0	8.0	8.0	7.1
JSC 2-21-1-V	8.0	6.7	4.3	8.0	8.0	7.0
TIFTUF (DT-1)	7.3	6.7	5.0	8.0	7.3	6.9
LATITUDE 36	8.0	6.7	4.0	7.7	7.7	6.8
OKC 1163	9.0	6.7	2.3	8.0	8.0	6.8
OKC 1302	7.3	6.3	5.0	8.0	7.3	6.8
TIFWAY	8.0	7.0	5.0	7.3	6.7	6.8
11-T-510	7.3	6.7	5.0	7.0	7.0	6.6
11-T-251	7.3	6.3	5.0	6.7	7.3	6.5
FAES 1327	7.7	6.0	4.3	7.7	6.7	6.5
PATRIOT	7.3	6.0	3.7	8.0	6.7	6.3
ASTRO	6.7	6.3	4.7	7.0	6.7	6.3
FAES 1325	6.3	6.7	5.3	6.3	6.0	6.1
FAES 1326	7.7	7.0	4.7	4.7	6.3	6.1
MSB 281	5.7	6.0	3.3	8.0	6.0	5.8
CELEBRATION	5.7	6.0	4.7	5.7	5.7	5.5
LSD VALUE	1 .1	0.7	1.5	1.2	0.8	0.5
C.V. (%)	8.9	6.8	20.4	10.2	7.5	10.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 24C. SUMMER DENSITY RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/

2015 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	CA3	FL3	IN1	NC1	OK1	MEAN
OKC 1163	5.7	6.7	8.3	8.7	8.0	7.5
TIFTUF (DT-1)	7.7	7.0	7.0	8.0	7.3	7.4
JSC 2-21-1-V	7.7	6.3	7.7	8.0	7.0	7.3
LATITUDE 36	6.3	7.0	8.0	8.3	7.0	7.3
JSC 2-21-18-V	6.3	7.3	7.7	8.0	7.0	7.3
OKC 1131	6.3	6.3	7.3	8.3	7.7	7.2
11-T-251	7.7	6.3	7.0	7.7	7.0	7.1
11-T-510	7.3	7.0	6.3	8.3	6.7	7.1
OKC 1302	6.0	7.7	6.7	8.0	7.0	7.1
TIFWAY	6.3	7.0	7.3	7.7	7.0	7.1
FAES 1327	7.0	6.7	6.7	7.3	7.0	6.9
PATRIOT	5.3	6.7	7.0	8.0	6.7	6.7
FAES 1326	6.7	7.0	6.7	6.7	6.3	6.7
FAES 1325	6.0	7.3	6.3	7.3	6.3	6.7
MSB 281	7.3	5.0	6.7	8.0	6.0	6.6
ASTRO	6.7	7.0	5.0	7.7	6.3	6.5
CELEBRATION	5.7	6.0	6.0	8.0	5.7	6.3
LSD VALUE	1.0	0.9	0.8	0.7	0.6	0.4
C.V. (%)	9.5	8.1	7.6	5.6	5.8	7.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 25C. FALL DENSITY RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	CA3	FL3	NC1	OK1	MEAN
11-T-510	8.0	8.3	7.0	7.7	6.3	7.5
OKC 1163	9.0	7.7	5.3	7.3	8.0	7.5
LATITUDE 36	8.0	7.3	6.3	8.0	7.0	7.3
OKC 1131	8.0	8.0	5.7	8.0	6.7	7.3
TIFTUF (DT-1)	7.3	8.3	6.7	8.0	6.0	7.3
FAES 1326	7.3	8.0	7.0	7.3	6.3	7.2
JSC 2-21-18-V	8.0	7.3	6.7	8.0	6.0	7.2
TIFWAY	7.3	8.0	6.3	7.0	7.0	7.1
FAES 1325	6.7	7.7	7.0	8.0	6.0	7.1
JSC 2-21-1-V	7.3	7.3	5.7	8.0	6.7	7.0
CELEBRATION	6.0	7.0	6.7	7.7	7.0	6.9
OKC 1302	7.7	7.3	5.3	7.7	6.3	6.9
FAES 1327	7.3	6.7	7.0	7.3	6.0	6.9
PATRIOT	7.3	6.3	6.3	7.7	6.0	6.7
11-T-251	6.3	7.0	6.3	6.7	6.7	6.6
ASTRO	6.3	7.0	6.0	7.0	6.3	6.5
MSB 281	6.3	6.7	4.7	8.0	6.0	6.3
LSD VALUE	1.1	1.3	1.3	1.2	0.7	0.5
C.V. (%)	9.2	11 .2	12.9	9.9	6.8	10.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 10C. SPRING GREENUP RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	ALI	AR1	CA3	FL3	KS2	KY1	MO1	MS1	NC1	TX2	MEAN
OKC 1131	4.3	8.7	7.0	6.3	5.3	8.0	5.3	6.7	3.0	6.3	6.1
JSC 2-21-18V	6.3	8.3	7.7	5.3	4.3	6.7	3.3	6.7	3.0	6.3	5.8
OKC 1163	6.3	8.3	6.3	4.3	4.3	7.7	3.7	7.0	2.7	7.0	5.8
JSC 2-21-1V	5.0	8.3	6.7	5.7	4.0	6.0	2.3	6.0	3.0	6.7	5.4
LATITUDE 36	4.0	8.3	7.3	7.0	4.0	6.0	1.0	6.0	2.7	7.0	5.3
DT-1	6.7	8.0	7.7	6.7	2.7	3.0	1.7	6.7	3.0	6.3	5.2
ASTRD	5.3	8.0	5.3	7.0	4.a	5.7	2.0	5.0	3.0	6.0	5.1
OKC 1302	6.0	5.7	7.0	7.0	4.a	3.7	1.3	6.0	3.0	7.0	5.1
PATRIOT	5.7	7.0	5.7	5.3	2.7	7.3	1.3	5.0	2.3	5.3	4.8
11-T-51a	6.3	6.0	6.7	6.7	2.0	3.0	2.0	5.7	1.7	6.0	4.6
FAES 1325	7.3	4.7	7.3	6.3	1.0	2.3	1.0	4.0	2.0	5.7	4.2
FAES 1326	5.7	7.0	6.7	4.3	1.7	3.0	1.0	4.0	1.7	6.7	4.2
TIFWAY	5.3	5.3	7.3	6.3	1.0	2.0	1.0	5.7	1.7	5.3	4.1
FAES 1327	6.0	5.0	6.0	4.7	1.3	2.0	1.0	5.0	2.0	7.0	4.0
11-T-251	3.0	3.7	6.7	5.0	2.0	3.0	1.0	4.3	2.0	6.7	3.7
CELEBRATION	4.7	3.7	6.7	5.0	1.0	2.0	1.0	4.7	2.0	6.3	3.7
MSB 281	2.7	1.3	5.0	5.7	2.7	2.7	1.0	5.7	2.0	6.7	3.5
LSD VALUE	1.8	2.4	1.3	1.6	0.6	1.7	1.4	0.7	0.6	0.9	0.4
C.V. (%)	20.8	23.3	12.3	17.2	14.0	23.9	46.7	8.4	14.3	9.1	18.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.

STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 21C. SPRING GREENUP RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/

2015 DATA

SPRING GREENUP RATINGS 1 -9 ¡9=COMPLETELY GREEN 2/

NAME	AL1	AR1	CA3	FL3	GA1	KS2	KY1	MO1	MS1	NC1	OK1	TN1	MEAN
JSC 2-21-18-V	5.3	8.0	3.7	2.7	4.0	6.0	7.0	6.7	5.7	7.0	7.0	9.0	6.0
OKC 1131	4.3	5.7	2.0	1.3	3.3	7.3	9.0	6.7	7.0	7.7	8.7	9.0	6.0
OKC 1163	2.0	7.0	3.3	1.0	3.3	6.0	7.0	5.7	7.0	8.0	7.7	9.0	5.6
TIFTUF (DT-1)	7.7	5.3	6.3	3.0	3.0	6.3	2.3	1.7	6.3	7.7	8.3	9.0	5.6
ASTRO	5.0	6.7	3.0	2.0	4.0	7.0	4.3	3.3	6.0	6.3	8.7	9.0	5.4
OKC 1302	6.7	9.0	3.7	2.3	4.3	6.3	3.7	1.3	3.7	7.3	8.0	9.0	5.4
LATITUDE 36	7.3	7.3	3.0	2.3	3.7	6.0	6.7	1.7	4.0	7.0	7.3	9.0	5.4
JSC 2-21-1-V	3.0	7.3	4.0	2.3	4.3	6.7	6.7	3.0	2.7	6.0	8.7	8.3	5.3
11-T-510	4.0	5.0	5.3	2.3	2.7	7.3	2.3	1.7	5.0	6.0	7.3	8.0	4.8
TIFWAY	7.7	3.0	6.3	2.0	3.0	7.3	1.0	1.0	4.0	6.3	5.7	9.0	4.7
MSB 281	7.3	4.0	3.3	3.0	4.0	7.7	1.0	1.0	5.3	7.7	5.7	4.7	4.6
FAES 1327	7.0	2.7	4.3	2.3	3.7	7.0	1.0	1.0	4.3	6.0	6.0	9.0	4.5
PATRIOT	2.7	3.0	2.0	1.0	2.7	7.7	6.0	2.3	4.0	7.3	6.7	9.0	4.5
CELEBRATION	4.7	4.0	4.3	3.3	2.7	8.0	1.0	1.0	5.0	4.7	6.0	9.0	4.5
FAES 1325	6.7	2.3	5.0	2.7	2.3	7.7	1.3	1.0	3.3	5.0	6.0	9.0	4.4
11-T-251	5.0	2.3	4.3	3.0	2.0	6.7	1.7	1.0	5.3	5.3	6.0	6.7	4.1
FAES 1326	4.7	2.0	5.3	2.0	3.7	6.3	2.3	1.0	3.0	2.7	5.7	9.0	4.0
LSD VALUE	2.2	2.3	1.0	1.4	1 .1	1.0	1.5	1.6	2.1	1.0	1.6	1.5	0.5
C.V. (%)	25.5	29.1	15.4	36.9	21.4	9.1	24.8	41.5	27.5	9.6	14.1	10.7	19.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 16C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA3	FL3	MS1	NC1	OK1	TN1	VA1	MEAN
OKC 1131	66.7	96.0	92.7	85.0	91.7	48.7	78.3	79.9
OKC 1163	73.3	99.0	96.0	76.7	70.0	40.0	61.7	73.8
JSC 2-21-18-V	66.7	99.0	94.3	73.3	75.0	69.3	38.3	73.7
DT-1	66.7	99.0	95.3	83.3	76.7	45.0	28.3	70.6
PATRIOT	58.3	93.0	88.3	78.3	36.7	72.0	65.0	70.2
ASTRO	56.7	90.0	88.3	76.7	76.7	67.0	25.0	68.6
JSC 2-21-1-V	41.7	90.0	96.0	61.7	83.3	59.7	35.0	66.8
OKC 1302	66.7	86.7	91.7	61.7	70.0	62.3	26.7	66.5
11-T-251	73.3	96.0	88.3	68.3	65.0	35.7	29.0	65.1
11-T-510	73.3	99.0	94.7	71.7	58.3	5.0	22.7	60.7
CELEBRATION	60.0	96.0	81.7	68.3	55.0	40.7	17.0	59.8
FAES 1326	53.3	96.0	78.3	36.7	41.7	61.7	40.0	58.2
LATITUDE 36	61.7	83.3	96.0	61.7	19.3	55.3	30.0	58.2
FAES 1325	60.0	96.0	81.7	55.0	45.0	59.0	1.3	56.9
TIFWAY	68.3	86.7	93.3	48.3	41.7	46.0	8.7	56.1
FAES 1327	53.3	76.7	81.0	55.0	46.7	42.7	9.0	52.0
MSB 281	40.0	86.7	90.0	55.0	3.0	33.3	26.7	47.8
LSD VALUE	18.6	9.0	9.5	21.2	15.8	47.7	30.0	9.5
C.V. (%)	18.9	6.0	6.6	20.1	17.5	59.8	58.4	24.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2014

TABLE 17C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
OKC 1163	99.0	94.3	81.7	97.7	93.0	97.3	93.8
11-T-510	99.0	93.3	66.7	99.0	94.7	99.0	91.9
OKC 1131	99.0	80.0	70.0	99.0	95.0	97.7	90.1
DT-1	99.0	73.3	75.0	99.0	95.3	98.0	89.9
JSC 2-21-18-V	99.0	90.0	66.7	99.0	90.0	92.3	89.5
ASTRO	99.0	68.3	75.0	99.0	97.0	96.3	89.1
JSC 2-21-1-V	99.0	53.3	68.3	94.7	95.0	97.0	84.6
PATRIOT	97.0	88.3	56.7	97.7	68.3	86.3	82.4
OKC 1302	99.0	81.7	26.0	96.0	88.3	98.0	81.5
11-T-251	99.0	85.0	11.0	94.7	88.3	95.7	78.9
FAES 1325	99.0	73.3	5.3	94.7	90.7	95.7	76.4
TIFWAY	99.0	85.0	5.3	90.0	81.7	96.3	76.2
CELEBRATION	99.0	63.3	5.3	95.0	93.0	97.7	75.6
FAES 1327	99.0	76.7	5.3	94.7	80.0	97.3	75.5
LATITUDE 36	99.0	85.0	28.3	91.7	36.7	97.0	72.9
FAES 1326	99.0	76.7	6.7	76.7	81.	95.7	72.7
MSB 281	97.0	46.7	7.	91.7	73.0	98.7	57.4
LSD VALUE	1.9	15.4	27.3	7.7	12.0	4.1	5.8
C.V. (%)	1.2	12.4	43.6	5.1	9. 2	2.7	10.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2014

TABLE 18C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/

2014 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC	OK1	VA1	MEAN
JSC 2-21-18-V	99.0	96.3	91.0	99	99.0	97.7	97.6
PATRIOT	99.0	97.7	85.0	99	99.0	99.0	96.4
OKC 1131	99.0	93.3	88.3	99	99.0	99.0	96.3
ASTRO	99.0	91.7	89.7	99	99.0	99.0	96.2
11-T-510	99.0	94.7	90.0	99	99.0	93.0	95.8
DT-1	99.0	81.7	94.0	99	99.0	97.7	95.1
OKC 1163	99.0	70.0	93.3	99	99.0	99.0	93.2
JSC 2-21-1-V	99.0	73.3	86.7	99	99.0	99.0	92.7
FAES 1326	99.0	97.7	63.3	99	99.0	93.0	91.8
LATITUDE 36	99.0	89.7	63.3	99	99.0	99.0	91.5
FAES 1325	99.0	89.7	70.0	99	99.0	88.0	90.8
OKC 1362	99.0	89.7	55.0	99	99.0	97.7	89.9
FAES 1327	99.0	91.3	53.3	99	99.0	78.3	86.7
11-T-251	99.0	95.6	45.0	99	99.0	76.7	85.6
CELEBRATION	99.0	86.7	36.7	99	99.0	89.3	84.9
TIFWAY	99.6	83.6	27.0	99	99.0	80.0	81.2
MSB 281	97.7	86.7	46.7	99	32.7	85.0	74.6
LSD VALUE	0.9	15.4	20.6	0	2.7	13.0	4.8
C.V. (96)	0.6	10.8	18.5	0	1.7	8.8	8.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 26C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KS2	M01	NC1	TN1	VA1	MEAN
JSC 2-21-18-V	80.0	86.7	86.7	96.7	97.7	91.1
OKC 1131	65.0	86.7	90.0	97.0	97.7	89.2
TIFTUF (DT-1)	61.7	83.3	90.0	95.7	97.7	87.9
JSC 2-21-1-V	75.0	76.7	90.0	83.7	99.0	87.2
OKC 1163	50.0	90.0	86.7	96.7	99.0	86.9
ASTRO	59.3	73.3	83.3	95.3	99.0	84.9
OKC 1302	86.7	16.7	86.7	94.7	96.3	80.0
PATRIOT	46.7	53.3	86.7	92.3	99.0	79.5
LATITUDE 36	68.3	20.0	90.0	93.7	99.0	78.3
11-T-510	36.7	56.7	90.0	83.7	93.0	76.5
FAES 1326	46.7	0.0	83.3	98.3	89.7	69.5
TIFWAY	51.7	0.0	90.0	97.3	75.0	68.8
CELEBRATION	41.7	0.0	80.0	94.0	84.7	66.6
FAES 1327	43.3	0.0	86.7	95.3	73.3	66.3
FAES 1325	23.3	0.0	83.3	94.0	83.0	63.8
MSB 281	43.3	0.0	86.7	45.7	80.0	59.1
11-T-251	33.3	0.0	80.0	67.0	70.0	58.2
LSD VALUE	30.0	28.0	11.0	16.1	16.1	8.0
C.V. (%)	34.8	46.1	7.9	11.2	11.1	16.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 27C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

	PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/				
NAME	KS2	M01	NC1	TN1	MEAN
TIFTUF (DT - 1)	98.0	90.0	99.0	98.3	96.9
JSC 2-21-18-V	97.7	90.0	99.0	98.3	96.8
OKC 1131	96.0	90.0	99.0	99.0	96.6
OKC 1163	97.0	90.0	99.0	97.0	96.4
JSC 2-21-1-V	98.0	86.7	99.0	98.3	96.2
ASTRO	98.3	86.7	99.0	97.7	96.1
11-T-510	97.3	83.3	99.0	98.7	95.5
PATRIOT	94.7	73.3	99.0	94.7	92.1
LATITUDE 36	97.0	30.0	99.0	97.3	84.5
OKC 1302	94.3	30.0	99.0	93.7	83.2
FAES 1326	96.7	0.0	98.3	98.7	78.5
TIFWAY	96.3	0.0	99.0	97.7	78.4
11-T-251	96.7	0.0	99.0	97.0	78.3
CELEBRATION	92.3	0.0	99.0	98.7	77.8
FAES 1327	91.3	0.0	99.0	97.7	77.4
FAES 1325	86.7	0.0	98.3	98.3	76.5
MSB 281	83.3	3.3	99.0	95.3	76.0
LSD VALUE	5.7	29.1	0.6	2.7	6.0
C.V. (%)	3.7	40.8	0.4	1.7	9.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 28C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	KS2	NC	TN	VA	MEAN
JSC 2-21-1-V	98.3	99	99.0	99.0	98.9
ASTRO	98.0	99	99.0	99.0	98.8
FAES 1326	98.3	99	98.7	99.0	98.8
TIFTUF (DT-1)	99.0	99	98.0	99.0	98.8
11-T-510	97.7	99	99.0	99.0	98.7
OKC 1163	97.7	99	99.0	99.0	98.7
OKC 1131	97.7	99	98.7	99.0	98.7
JSC 2-21-18-V	97.0	99	99.0	99.0	98.6
LATITUDE 36	97.0	99	98.7	99.0	98.5
CELEBRATION	96.3	99	99.0	99.0	98.5
TIFWAY	97.0	99	98.0	99.0	98.4
PATRIOT	95.0	99	94.3	99.0	97.3
MSB 281	90.7	99	98.3	97.7	96.9
OKC 1302	89.0	99	98.0	99.0	96.8
11-T-251	95.0	99	98.3	91.0	96.5
FAES 1325	86.7	99	98.3	99.0	96.4
FAES 1327	89.0	99	99.0	96.0	96.4
LSD VALUE	5.7	0	1.4	5.8	1.7
C.V. (%)	3.7	0	0.9	3.7	2.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 18C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS UNDER DROUGHT STRESS AT COLLEGE STATION, TX 1/
2015 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	LEAF TEXTURE	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATINGS	QUALITY RATINGS JUL	AUG	SEP	OCT	NOV	MEAN
TIFTUF (DT -1)	7.7	7.7	9.0	8.0	9.0	7.7	8.0	6.3	7.7	8.0	7.5
OKC 1131	7.7	8.3	7.0	3.3	9.0	8.0	8.3	3.3	7.7	7.0	6.9
11-T-510	7.0	7.0	6.7	5.0	9.0	7.0	7.7	4.7	6.7	6.0	6.4
JSC 2-21-18-V	8.0	8.3	8.0	5.3	7.3	7.7	7.7	2.3	5.3	6.0	5.8
PATRIOT	7.7	6.7	5.0	3.0	7.0	6.7	7.0	5.3	5.3	4.7	5.8
11 - T -251	6.7	6.7	6.3	2.7	9.0	6.3	6.7	3.3	6.0	6.3	5.7
FAES 1325	6.7	6.7	7.0	4.7	7.3	6.3	5.7	5.3	5.0	6.3	5.7
LATITUDE 36	8.3	8.0	7.0	5.7	9.0	7.7	8.0	2.3	5.0	5.7	5.7
OKC 1302	8.3	7.0	7.7	6.0	7.7	7.0	7.7	2.7	5.3	5.3	5.6
CELEBRATION	6.3	6.7	7.0	4.7	9.0	5.7	6.0	4.0	5.0	6.7	5.5
JSC 2-21-1-V	8.0	7.7	8.0	6.3	8.7	7.7	7.3	2.0	4.3	6.0	5.5
TIFWAY	7.7	7.7	7.3	5.7	9.0	7.0	6.7	2.7	4.3	5.7	5.3
OKC 1163	8.3	8.7	6.3	3.3	9.0	7.7	8.0	1.0	4.7	4.7	5.2
FAES 1326	7.7	7.0	7.0	5.0	8.0	6.7	6.7	2.7	4.0	5.7	5.1
FAES 1327	7.7	7.3	7.0	4.7	9.0	7.0	6.7	1.7	3.7	4.7	4.7
ASTRO	5.3	6.3	5.7	4.3	8.3	5.7	6.3	1.7	4.3	4.0	4.4
MSB 281	4.0	7.0	5.7	2.0	9.0	3.0	3.0	1.3	1.3	2.3	2.2
LSD VALUE	0.8	0.9	1.4	1.2	0.6	0.8	1.1	1.3	1.9	1.6	0.7
C.V. (%)	7.0	7.1	11 .6	17.1	4.6	7.4	10.5	26.9	23.0	16.9	8.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 18C. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS UNDER DROUGHT STRESS AT COLLEGE STATION, TX 1/
2015 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

PERCENT LIVING GROUND COVER RATINGS FOR DROUGHT TOLERANCE AND RECOVERY

NAME	8_10	8_17	8_24	8_31	9_07	9_14	9_23	9_29	10_7	10 3	10_21	10_28	11_4	11-10
TIFTUF (DT-1)	78.3	80.0	75.0	71.7	66.7	66.7	66.7	70.0	71.7	73.3	75.0	81.7	85.0	85.0
OKC 1131	76.7	73.3	65.0	58.3	56.7	58.3	65.0	68.3	76.7	76.7	75.0	78.3	75.0	75.0
11-T-510	81.7	81.7	71.7	68.3	63.3	68.3	73.3	76.7	76.7	73.3	73.3	75.0	73.3	71.7
JSC 2-21-18-V	75.0	66.7	55.0	53.3	46.7	50.0	56.7	60.0	63.3	65.0	63.3	66.7	70.0	70.0
PATRIOT	80.0	80.0	73.3	68.3	61.7	63.3	65.0	65.0	66.7	66.7	66.7	68.3	70.0	71.7
11-T-251	75.0	75.0	65.0	60.0	58.3	58.3	63.3	65.0	66.7	66.7	66.7	68.3	68.3	70.0
FAES 1325	81.7	80.0	76.7	68.3	61.7	65.0	66.7	70.0	71.7	70.0	70.0	75.0	73.3	75.0
LATITUDE 36	78.3	68.3	61.7	48.3	48.3	48.3	55.0	60.0	63.3	65.0	65.0	65.0	65.0	65.0
OKC 1302	76.7	68.3	56.7	51.7	48.3	50.0	58.3	61.7	63.3	65.0	66.7	66.7	66.7	66.7
CELEBRATION	76.7	75.0	66.7	61.7	60.0	58.3	61.7	65.0	68.3	66.7	68.3	68.3	70.0	70.0
JSC 2-21-1-V	76.7	63.3	51.7	41.7	35.0	35.0	48.3	56.7	61.7	63.3	63.3	65.0	66.7	66.7
TIFWAY	75.0	70.0	61.7	51.7	50.0	50.0	53.3	60.0	61.7	63.3	65.0	65.0	65.0	65.0
OKC 1163	70.0	60.0	38.3	26.7	26.7	30.0	50.0	58.3	60.0	56.7	56.7	55.0	55.0	53.3
FAES 1326	75.0	71.7	61.7	53.3	51.7	51.7	55.0	60.0	65.0	65.0	63.3	66.7	68.3	66.7
FAES 1327	68.3	65.0	50.0	40.0	38.3	41.7	51.7	56.7	60.0	63.3	63.3	63.3	63.3	65.0
ASTRO	76.7	70.0	60.0	53.3	50.0	50.0	60.0	61.7	65.0	63.3	66.7	70.0	71.7	71.7
MSB 281	60.0	58.3	35.0	30.0	31.7	31.7	43.3	50.0	51.7	50.0	48.3	46.7	48.3	51.7
LSD VALUE	4.3	7.4	10.6	9.7	8.8	8.4	6.4	5.0	5.3	7.6	9.4	11.0	10.9	11.6
C.V. (%)	3.7	6.5	11.2	11.7	11.4	10.6	7.0	5.1	5.2	7.0	8.3	9.6	9.4	9.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 21C. PERCENT WINTER KILL RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	IN1	KY1	MEAN
FAES 1327	99.0	98.7	98.8
TIFWAY	98.0	99.0	98.5
CELEBRATION	97.3	98.7	98.0
FAES 1325	97.3	97.7	97.5
11-T-510	99.0	95.0	97.0
II-T-251	93.0	96.3	94.7
MSB 281	83.0	97.7	90.3
FAES 1326	84.7	93.0	88.8
DT-1	82.7	94.0	88.3
JSC 2-21-1-V	68.3	78.3	73.3
OKC 1302	35.7	91.0	63.3
ASTRO	40.7	83.3	62.0
LATITUDE 36	41.3	73.3	57.3
JSC 2-21-18-V	37.3	60.0	48.7
OKC 1163	58.0	36.7	47.3
PATRIOT	11.7	50.0	30.8
OKC 1131	4.0	25.0	14.5
LSD VALUE	45.5	13.9	23.8
C.V. (%)	42.5	10.8	28.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 19C. FROST TOLERANCE RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2013 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/

NAME	KY1
CELEBRATION	6.0
DT-1	6.0
MSB 281	6.0
TIFWAY	6.0
11-T-510	5.7
FAES 1325	5.7
FAES 1326	5.7
LATITUDE 36	5.7
11-T-251	5.3
FAES 1327	5.3
JSC 2-21-1-V	5.3
OKC 1131	5.3
A5TRO	5.0
JSC 2-21-18-V	5.0
OKC 1302	5.0
PATRIOT	5.0
OKC 1163	4.7
LSD VALUE	0.8
C.V. (%)	8.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 31C. SEEDHEAD RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS
AT RALEIGH, NC 1/
2014 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

NAME	JUNE	OCTOBER	MEAN
OKC 1163	8.0	9.0	8.5
11-T-510	7.3	9.0	8.2
LATITUDE 36	7.0	9.0	8.0
FAES 1326	8.0	7.7	7.8
OKC 1302	7.7	8.0	7.8
11-T-251	7.0	8.3	7.7
JSC 2-21-18-V	6.7	8.0	7.3
TIFWAY	6.0	8.7	7.3
FAES 1327	6.0	8.3	7.2
DT-1	5.3	8.7	7.0
PATRIOT	8.0	5.7	6.8
ASTRO	5.3	8.0	6.7
CELEBRATION	5.0	8.3	6.7
FAES 1325	5.7	7.7	6.7
JSC 2-21-1-V	6.0	7.3	6.7
MSB 281	5.7	7.3	6.5
OKC 1131	6.3	6.7	6.5
LSD VALUE	0.9	1.1	0.8
C.V. (%)	9.0	8.1	6.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 35C. SEEDHEAD RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

	SEEDHEAD RATINGS 1-9; 9=NONE 2/			
NAME	KS2	NC1	OK1	MEAN
11-T-510	9.0	9.0	6.0	8.0
OKC 1163	8.3	9.0	6.3	7.9
PATRIOT	7.7	8.7	7.0	7.8
LATITUDE 36	8.3	8.7	5.3	7.4
OKC 1302	8.7	8.3	4.0	7.0
FAES 1327	8.3	7.3	4.7	6.8
TIFWAY	8.3	7.3	4.3	6.7
FAES 1326	7.3	8.3	3.7	6.4
JSC 2-21-18-V	7.3	7.3	4.3	6.3
TIFTUF (DT -1)	6.7	6.7	5.0	6.1
JSC 2-21-1-V	7.0	8.0	2.7	5.9
FAES 1325	6.7	6.7	4.0	5.8
11-T-251	5.7	6.3	5.3	5.8
CELEBRATION	7.7	6.3	3.3	5.8
ASTRO	5.0	6.3	4.3	5.2
OKC 1131	7.0	4.7	3.0	4.9
MSB 281	5.0	4.0	4.7	4.6
LSD VALUE	1.9	1.6	1.6	1.0
C.V. (%)	15.9	14.0	22.2	16.7

1 / TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 22C. LEAF SPOT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	AR1
11-T-251	9.0
MSB 281	8.7
TIFWAY	8.3
DT-1	8.0
FAES 1325	8.0
LATITUDE 36	8.0
FAES 1326	7.3
OKC 1302	7.0
11-T-510	6.7
ASTRO	6.7
JSC 2-21-1-V	5.7
OKC 1163	5.7
PATRIOT	5.3
JSC 2-21-18-V	4.7
CELEBRATION	4.0
FAES 1327	4.0
OKC 1131	2.0
LSD VALUE	3.8
C.V. (%)	36.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 23C. DOLLAR SPOT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2014 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	FL3
11-T-251	9.0
FAES 1325	8.3
MSB 281	8.3
DT-1	7.7
OKC 1302	7.7
FAES 1327	7.0
JSC 2-21-18-V	7.0
PATRIOT	7.0
TIFWAY	7.0
FAES 1326	6.3
JSC 2-21-1-V	6.3
LATITUDE 36	6.3
OKC 1131	6.3
OKC 1163	6.3
11-T-510	5.7
ASTRO	5.7
CELEBRATION	5.7
LSD VALUE	1.7
C.V. (%)	15.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 30C. DOLLAR SPOT RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS 1/
2015 DATA

DOLLAR SPOT RATINGS 1-9 9=NO DISEASE 2/

NAME	NC1
11-T-510	8.0
11-T-251	7.3
FAES 1327	7.3
JSC 2-21-18-V	7.3
MSB 281	7.3
FAES 1326	7.0
OKC 1302	7.0
ASTRO	6.7
FAES 1325	6.7
JSC 2-21-1-V	6.7
PATRIOT	6.7
TIFTUF (DT-1)	6.7
TIFWAY	6.7
CELEBRATION	6.3
OKC 1131	6.3
LATITUDE 36	6.0
OKC 1163	4.3
LSD VALUE	1.7
C.V. (%)	15.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 19C. NEMOTODES COUNTS AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS' AT GAINESVILLE, FL 1/
2013-15 DATA

ROOT LENGTH MEASURED IN CM 2/

	PERCENT GROUND COVER IN 2014			PERCENT GROUND COVER IN 2015			ROOT LENGTH MEASUREMENTS	
NAME	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	2014	2015
TIFWAY	14.0	49.3	22.7	21.7	39.7	11.7	823.7	1068.7
TIFTUF (DT-1)	7.0	63.3	54.3	25.7	55.3	42.3	797.3	1032.3
CELEBRATION	23.0	38.7	39.3	29.0	44.0	33.3	513.7	1031.7
11-T-510	22.3	62.7	48.3	28.7	45.7	21.3	659.3	1029.3
OKC 1131	26.0	73.0	46.7	28.3	70.0	44.3	852.7	1001.7
JSC 2-21-18-V	15.7	56.7	26.7	11 .3	34.7	14.3	585.3	994.0
FAES 1327	15.3	52.3	18.0	19.3	53.0	26.0	802.0	969.7
LATITUDE 36	22.0	62.0	37.7	17.3	40.0	15.3	742.7	919.0
FAES 1326	19.3	48.7	37.3	24.0	35.7	31.0	831.3	902.0
11 - T - 251	12.3	40.3	16.0	25.3	54.0	12.0	637.7	850.7
FAES 1325	13.7	57.0	37.3	27.7	49.3	31.0	783.3	839.0
JSC 2-21-1-V	16.0	58.0	25.7	12.0	28.3	11.0	792.7	791.0
ASTRO	23.3	52.7	42.7	15.7	37.3	15.7	723.7	536.7
PATRIOT	11.3	47.7	10.0	9.3	36.0	9.0	410.0	529.7
OKC 1302	10.7	52.0	24.3	16.0	41.0	15.3	438.0	515.0
OKC 1163	4.0	7.7	4.7	2.7	6.0	2.3	423.7	401.0
MSB 281	5.0	18.7	8.0	4.7	21.0	6.7	445.0	397.7
LSD VALUE	6.6	8.8	7.9	7.4	20.2	9.3	478.5	672.1
C.V. (%)	26.8	11.8	17.8	25.0	29.1	29.7	31.6	37.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 19C. (CONT'D) NEMOTODES COUNTS AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS AT GAINESVILLE, FL 1/
2013-15 DATA

	ROOT KNOT NEMATODES			STING NEMATODES			LESION NEMATODES			LANCE NEMATODES			HELICO NEMATODES		
NAME	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015
TIFWAY	0.0	4.0	2.0	0.0	0.0	0.0	0.0	0.7	0.3	9.3	6.0	29.0	18.7	1.3	3.7
TIFTUF (DT-1)	0.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.3	1.7	3.7	4.0	23.3	58.3	6.7
CELEBRATION	0.0	7.3	3.5	0.0	0.0	0.0	0.0	0.0	4.5	14.3	15.0	25.5	17.7	75.3	10.5
11-T-510	0.0	3.0	2.0	0.0	4.0	0.0	0.0	0.0	0.7	3.3	8.3	6.0	21.3	106.0	50.7
OKC 1131	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.0	33.3	24.3	12.3	85.0	38.0
JSC 2-21-18-V	0.0	2.7	3.7	0.0	0.0	0.0	0.0	0.7	4.7	6.7	7.0	5.0	19.3	31.3	17.0
FAES 1327	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.0	14.0	13.0	25.3	23.7	5.3	4.7
LATITUDE 36	1.3	13.0	1.0	0.0	0.0	0.0	0.3	3.7	8.0	11.0	11.0	12.3	20.3	33.0	22.7
FAES 1326	0.3	5.0	6.0	0.0	0.0	1.0	0.3	0.7	15.7	0.0	0.0	0.0	24.0	12.7	26.3
11-T-251	0.0	4.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.0	7.7	16.0	80.3	30.7
FAES 1325	0.3	1.0	0.3	0.3	0.0	0.0	0.0	0.0	1.7	2.3	2.7	5.3	31.0	102.3	68.3
JSC 2-21-1-V	0.3	14.7	3.0	0.0	0.7	0.0	0.0	0.3	0.0	7.3	15.0	14.7	35.0	181.7	7.7
ASTRO	0.0	8.7	5.3	0.0	0.0	0.0	0.0	0.3	0.7	7.3	13.0	7.7	80.3	29.3	13.7
PATRIOT	0.3	0.7	0.7	0.0	6.7	0.0	0.0	2.0	1.3	18.0	35.7	80.3	21.0	98.3	29.7
OKC 1302	2.7	7.0	3.0	0.3	1.7	0.0	0.7	1.0	2.3	1.3	7.3	19.0	36.7	30.7	19.3
OKC 1163	0.0	11.7	1.0	0.0	0.3	0.0	0.0	0.0	0.0	5.0	28.0	61.3	29.0	9.0	1.7
MSB 281	0.3	12.3	3.0	0.0	0.0	0.3	0.0	0.7	8.3	5.3	19.7	32.0	12.0	52.3	2.0
LSD VALUE	2.2	26.3	3.0	0.6	9.1	1.3	1.1	3.1	25.0	32.3	42.0	108.4	29.2	93.4	66.0
C.V. (%)	212.9	140.9	69.9	488.9	403.1	549.9	448.6	213.9	265.0	141.0	117.4	176.5	60.0	83.6	126.0

1 / TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 19C. (CONT'D) NEMOTODES COUNTS AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS AT GAINESVILLE, FL 1/
2013-15 DATA

	PELTA NEMATODES			STUBBY NEMATODES			RING NEMATODES			SHEATH NEMATODES			SHEATHOID NEMATODES		
NAME	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015
TIFWAY	4.7	0.7	0.0	1.7	1.0	0.7	229.7	209.7	75.7	0.3	23.3	12.7	1.0	6.0	14.0
TIFTUF (DT -1)	4.7	0.0	0.0	3.0	3.3	0.3	205.7	119.7	26.7	1.3	60.7	0.0	6.7	0.0	19.3
CELEBRATION	5.7	2.0	0.0	0.0	1.7	1.0	134.3	209.7	88.0	0.0	0.0	0.0	4.3	7.0	25.5
11-T-510	1.0	2.7	2.3	2.3	2.7	0.3	133.7	299.0	42.0	0.0	1.3	105.3	4.0	9.3	58.3
OKC 1131	9.7	1.0	0.0	2.0	0.0	4.7	173.0	96.0	15.3	0.7	13.0	0.0	13.7	26.7	13.3
JSC 2-21-18-V	7.7	1.0	0.0	1.0	0.3	0.0	349.0	179.0	85.0	0.0	16.7	1.0	0.3	1.7	7.3
FAES 1327	21.3	14.0	4.3	4.7	2.7	0.3	321.3	285.3	10.7	1.3	7.7	49.3	1.0	0.7	42.7
LATITUDE 36	8.0	1.7	0.0	1.0	0.7	0.0	243.3	224.3	54.7	2.3	6.7	6.3	17.7	25.7	95.0
FAES 1326	15.3	16.7	1.0	3.0	4.0	0.3	321.7	135.7	30.7	2.3	112.3	43.0	0.0	0.0	3.7
11-T-251	3.3	1.0	0.0	3.3	0.7	0.0	210.0	167.3	24.3	0.3	1.7	38.3	1.0	3.0	112.0
FAES 1325	11.7	6.3	1.0	1.0	2.7	0.7	241.3	49.7	8.3	0.0	0.7	0.0	0.7	1.0	0.0
JSC 2-21-1-V	3.3	2.0	0.3	2.3	3.7	1.7	270.0	164.0	18.0	1.7	7.0	2.3	2.0	6.3	37.3
ASTRO	5.7	3.0	0.0	2.0	3.0	0.0	230.0	204.3	22.3	0.7	3.7	1.7	4.0	3.7	11.0
PATRIOT	0.3	2.3	0.7	0.3	0.7	0.3	125.7	243.0	45.3	0.0	0.0	0.0	5.0	1.7	0.0
OKC 1302	14.0	4.3	3.0	1.3	1.0	0.7	256.7	158.0	17.7	1.0	14.3	0.7	0.7	0.3	0.0
OKC 1163	4.7	1.0	0.3	0.3	0.0	0.0	228.0	98.7	39.3	0.0	70.0	0.0	4.0	3.3	5.0
MSB 281	3.0	0.7	0.0	0.7	0.3	1.3	178.3	497.7	51.7	0.3	0.3	0.3	0.0	1.0	1.0
LSD VALUE	28.1	21.2	7.0	8.0	3.7	2.6	189.8	472.6	132.7	4.6	130.8	146.9	25.0	43.6	136.8
C.V. (%)	133.5	216.8	296.5	144.1	102.0	174.1	37.2	86.3	117.6	209.2	246.0	320.5	222.1	257.9	196.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 15C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS UNDER TRAFFIC STRESS AT LEXINGTON, KY 1/
2015 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY SEPTEMBER	COVER BEFORE TRAFFIC 9_2	PERCENT 9_09	LIVING GROUND COVER AFTER 9_16	9_23	TRAFFIC 10_02	PERCENT 10_07	LIVING GROUND COVER AFTER TRAFFIC 10_14	10_23	10_29
TIFWAY	7.0	91.7	90.0	81.7	88.3	78.3	75.0	75.0	73.3	73.3
JSC 2-21-1-V	7.3	99.0	93.3	91.7	90.0	86.7	76.7	78.3	73.3	71.7
JSC 2-21-18-V	7.0	99.0	86.7	85.0	85.0	81.7	73.3	73.3	73.3	70.0
OKC 1131	7.3	99.0	91.7	90.0	93.3	83.3	80.0	76.7	73.3	70.0
OKC 1163	7.0	99.0	88.3	83.3	86.7	76.7	73.3	68.3	70.0	70.0
TIFTUF (DT -1)	7.3	96.3	95.0	88.3	88.3	85.0	78.3	75.0	71.7	70.0
PATRIOT	7.3	99.0	95.0	88.3	88.3	83.3	76.7	71.7	71.7	65.0
ASTRO	7.3	96.0	91.7	90.0	88.3	76.7	71.7	63.3	61.7	61.7
LATITUDE 36	7.3	89.3	85.0	81.7	83.3	76.7	68.3	63.3	63.3	58.3
FAES 1325	7.0	71.7	70.0	75.0	71.7	55.0	53.3	61.7	56.7	53.3
11-T-510	7.7	88.0	85.0	76.7	75.0	66.7	56.7	45.0	41.7	45.0
FAES 1326	7.0	68.0	63.3	55.0	60.0	45.0	31.7	45.0	40.0	40.0
OKC 1302	6.7	46.7	46.7	55.0	50.0	41.7	41.7	43.3	35.0	36.7
MSB 281	7.3	48.3	48.3	41.7	53.3	31.7	35.0	35.0	26.7	33.3
11-T-251	7.5	70.0	67.5	48.3	38.3	26.7	28.3	25.0	25.0	31.7
FAES 1327	7.0	46.7	46.7	43.3	45.0	23.3	31. 7	28.3	25.0	25.0
CELEBRATION	7.3	43.3	41.7	38.3	35.0	20.0	21. 7	18.3	16.7	18.3
LSD VALUE		29.5	28.3	28.7	27.4	25.6	24.5	25.7	29.8	25.7
C.V. (%)		21.5	21.3	23.2	22.5	26.0	26.1	27.5	32.8	28.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2015

TABLE 16C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS (VEGETATIVE) CULTIVARS UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
TIFTUF (DT-1)	7.0	9.0	1.7	95.7	98.3	98.3	7.3	8.0	9.0	8.7	8.7	8.3	9.0	9.0	8.5
FAES 1325	8.3	9.0	3.0	94.0	98.3	98.7	8.0	8.3	8.7	8.7	8.7	8.3	8.0	8.7	8.4
OKC 1302	8.0	9.0	2.0	94.7	93.7	98.7	7.7	8.3	9.0	8.7	7.3	8.3	8.7	9.0	8.4
11-T-510	7.0	8.0	1.3	83.7	98.7	99.0	7.3	8.0	8.3	8.3	8.3	8.7	8.7	9.0	8.3
FAES 1327	6.7	9.0	2.0	95.3	97.7	98.7	7.7	7.7	8.3	8.3	8.0	8.7	8.3	9.0	8.3
OKC 1131	8.0	9.0	2.0	97.0	99.0	98.3	6.7	8.3	9.0	8.7	8.7	8.0	8.7	8.7	8.3
CELEBRATION	8.0	9.0	2.7	94.0	98.7	99.0	7.3	8.0	9.0	8.0	8.0	8.0	8.3	8.7	8.2
LATITUDE 36	7.3	9.0	2.0	93.7	97.3	99.0	7.0	8.0	8.7	8.3	8.0	8.0	8.7	B.7	8.2
JSC 2-21-18-V	8.O	9.0	1.7	96.7	98.3	98.7	7.3	8.3	8.0	8.O	8.O	8.3	8.3	8.7	8.1
11-T-251	6.0	6.7	2.0	67.0	97.0	98.7	6.7	7.0	8.7	8.3	8.3	8.O	8.3	8.7	8.0
ASTRO	6.3	9.0	2.7	95.3	97.7	99.0	8.0	8.0	8.O	8.O	7.3	8.O	8.0	8.3	8.0
TIFWAY	8.3	9.0	2.0	97.3	97.7	94.7	6.7	8.3	8.3	8.3	8.3	7.7	8.3	8.3	8.0
PATRIOT	8.3	9.0	3.0	92.3	94.7	96.3	6.7	8.3	8.7	8.O	7.3	7.7	8.0	8.3	7.9
OKC 1163	7.0	9.0	1.0	96.7	97.0	98.7	5.7	8.0	8.0	7.7	7.3	8.3	8.0	8.7	7.7
FAES 1326	6.0	6.3	2.3	6B.3	71.7	80.0	5.7	7.3	8.0	7.7	7.7	7.3	7.3	8.O	7.4
JSC 2-21-1-V	5.0	6.0	1.3	60.0	71.0	71.7	6.0	6.3	7.7	7.3	7.3	7.3	7.3	8.O	7.2
MSB 281	4.7	4.7	2.3	45.7	69.3	71.3	5.7	6.3	7.0	6.7	6.7	7.7	7.7	8.0	7.0
LSD VALUE	2.3	3.7	1.5	37.8	54.2	48.9	1.6	1.5	1.9	2.3	1.9	2.7	2.0	2.4	1.4
C.V. (%)	17 .1	20.8	33.1	21 .1	20.1	18.0	12.1	9.6	9.2	10.6	10.1	10.4	9.1	8.8	7.4

1 / TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.