

NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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A Guide to NTEP Turfgrass Ratings

Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

2012 NATIONAL TALL FESCUE TEST

LOCATIONS SUBMITTING DATA FOR 2013-17

State	Location	Code
Arkansas	Fayetteville	AR1
California	Riverside	CA3
Connecticut	Storrs	CT1
Georgia	Griffin	GA1
Iowa	Ames	IA1
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Indiana	West Lafayette	IN1
Kansas	Wichita	KS2
Kentucky	Lexington	KY1
Kentucky	Lexington (Lexington)	KY2
Maryland	College Park	MD1
Missouri	Columbia	MO1
Mississippi	Mississippi State	MS1
Nebraska	Mead	NE1
New Jersey	North Brunswick	NJ1
New Jersey	North Brunswick (Traffic)	NJ3
New Jersey	Adelphia	NJ2
North Carolina	Raleigh	NC1
Tennessee	Knoxville	TN1
Oklahoma	Stillwater	OK1
Pennsylvania	University Park	PA1
Pennsylvania	University Park (Traffic)	PA2
Tennessee	Knoxville (Traffic)	TN2
Utah	Logan (Drought)	UT1
Utah	Logan (Phizome/Spread Study)	UT2
Virginia	Blacksburg	VA1
Virginia	Blacksburg (Traffic)	VA2

2012 Tall Fescue Entries and Sponsors

Entry Name	Sponsor	Entry Name	Sponsor	Entry Name	Sponsor
1 Terrano	Semillas Fito S.A.	40 ATF 1704	Pennington Seed	79 K12-05	The Scotts Company
*2 Ky-31	Standard Entry	*41 GTO (Burl TF-2)	Burlingham Seeds	*80 Avenger II (PPG-TF-156)	Mountain View Seeds
*3 Regenerate	Landmark Turf& NS	*42 Hot Rod (Burl TF-136)	Burlingham Seeds	*81 Thor (PPG-TF-157)	Columbia Seeds LLC
4 Fesnova	Semillas Fito S.A.	*43 Leonardo (LTP-TF89)	Lebanon Turf Products	82 PPG-TF-169	Integra Turf
*5 Raptor III (ZW 44)	Z Seeds	*44 Rockwell (LTP-TWUU)	Lebanon Turf Products	*83 SuperSonic (PPG-TF-170)	Mountain View Seeds
*6 Traverse 2 SRP (W45)	Turf Merchants, Inc	*45 Michelangelo (LTP-F5DPDR)	Lebanon Turf Products	*84 Paramount (PPG-TF-137)	Lewis Seed Company
*7 4 th Millennium SRP (U43)	Turf Merchants, Inc	*46 Unitus (IS-TF 289)	DLF Pickseed, SRO	85 PPG-TF-135	Ampac Seed Company
*8 Rhambler 2 SRP (LSD)	Turf Merchants, Inc	*47 Bloodhound (MET 6 SEL)	DLF	86 PPG-TF-115	Lewis Seed Company
*9 Aquaduct	Turf Merchants, Inc	*48 Diablo (IS-TF 330)	Columbia Seeds LLC	*87 Firecracker SLS (PPG-TF-105)	Mountain View Seeds
*10 Catalyst	Standard Entry	49 IS-TF-287	DLF Pickseed USA	*88 Valkyrie LS (PPG-TF-172)	Mountain View Seeds
*11 Marauder	Ledeboer Seed LLC	*50 Houndog8 (IS-TF 307 SEL)	DLF	*89 Wichita (PPG-TF-151)	Grassland Oregon
*12 Warhawk	Ledeboer Seed LLC	*51 Standout (IS-TF 308 SEL)	DLF Pickseed USA	*90 Titanium 2LS (PPG-TF-152)	Mountain View Seeds
*13 Annihilator	Ledeboer Seed LLC	52 IS-TF 311	Brett-Young Seeds	*91 Screamer LS (PPG-TF-147)	Mountain View Seeds
14 Comp. Res. SST	Ledeboer Seed LLC	*53 Nightcrawler (IS-TF 285)	Pickseed	*92 Black Tail (PPG-TF-150)	Columbia Seeds LLC
15 204 Res. Blk4	Ledeboer Seed LLC	*54 Crossfire 4 (IS-TF 310 SEL)	Pickseed	*93 Trinity (BIZEM)	Semillas Fito S.A.
16 JS 819	Jacklin Seed by Simplot©	55 IS-TF-272	DLF Pickseed USA	*94 Amity (CCR2)	Proseeds Marketing
17 JS 818	Jacklin Seed by Simplot©	*56 Rebel V (ATF 1736)	Pennington Seed	95 MET-3	Proseeds Marketing
18 JS 809	Jacklin Seed by Simplot©	57 ATF 1754	Brett-Young Seeds	96 W41	The Scotts Company
19 JS 916	Jacklin Seed by Simplot©	*58 Hemi	Burlingham Seeds	*97 Dynamite LS (PPG-TF-145)	Mountain View Seeds
20 JS 825	Jacklin Seed by Simplot©	*59 Firebird 2	Burlingham Seeds	98 PPG-TF-138	Ampac Seeds
21 MET 1	The Scotts Company	*60 Bullseye	Standard Entry	*99 Xtender (PPG-TF-139)	Landmark Turf & Native S.
22 F711	The Scotts Company	*61 Embrace (PST-5EV2)	Landmark Turf & N.S.	*100 Ares (PPG-TF-142)	Mountain View Seed
*23 Fayette (IS-TF 291)	DLF Pickseed, SRO	*62 Meridian (PST-5GRB)	Landmark Turf & N.S.	101 RAD-TF-89	Bailey Seeds
24 IS-TF-276 M2	DLF Pickseed USA	*63 Saltillo (PST-5SALT)	Rose Agri-Seed	102 RAD-TF-92	Radix Research
*25 Rhizing Moon (IS-TF 305 SEL)	DLF	*64 Rain Dance (PST-5SDT)	Rose Agri-Seed	*103 Memphis (GO-DFR)	Grassland Oregon
*26 Trending (IS-TF 269 SEL)	DLF Pickseed USA	65 PST-5DZP	Pure Seed Testing, Inc	104 K12-MCD	The Scotts Company
*27 Turfway (IS-TF 282 M2)	DLF	*66 Swagger (PST-5RO5)	Brett-Young Seeds	105 PST-5EX2	Pure Seed Testing, Inc.
*28 Foxhound (IS-TF 284 M2)	DLF	67 PST-5BP0	Pure Seed Testing, Inc	106 PST-5MVD	Brett-Young Seeds
*29 Temptation (OR-21)	Great Basin Seed	68 PST-5BRK	Pure Seed Testing, Inc	107 RAD-TF-83	Oak Park Farms
*30 Caesar (TY 10)	Great Basin Seed	*69 Kingdom (DB1)	SiteOne Landscape Supply	*108 Olympus (RAD-TF-88)	Grassland Oregon
*31 Frontline (Exp TF-09)	Great Basin Seed	*70 Technique (RZ2)	SiteOne Landscape Supply	109 BAR Fa 120878	Barenburg USA
*32 Rowdy (SRX-TPC)	Seed Research of OR	*71 Thunderstruck (TD1)	Columbia Seeds LLC	110 BAR Fa 121089	Barenburg USA
*33 Firewall (PSG-WEI)	Pickseed	*72 Temple (DZ1)	Columbia Seeds LLC	111 BAR Fa 121091	Barenburg USA
*34 Rebounder (Pick-W43)	Seed Research of OR	*73 Maestro (T31)	Landmark Turf & N.S.	112 BAR Fa 121095	Barenburg USA
*35 Grande 3	Seed Research of OR	74 PSG-GSD	DLF Pickseed USA	*113 Inspiration (PST-R5NW)	Rose-Agri Seed
36 PSG-PO1	Pickseed	75 PSG-8BP2	DLF Pickseed USA	*114 Hover (Burl TF-69)	Ag. Service Seeds
*37 Reflection (U45)	Landmark Turf & N.S.	76 PSG-TT4	DLF Pickseed USA	*115 Falcon IV	Standard Entry
38 B23	Pennington Seed	*77 Faith	Standard Entry	*116 Falcon V	Standard Entry
*39 Vert (ATF 1612)	Pennington Seed	78 K12-13	The Scotts Company		

*COMMERCIALY AVAILABLE IN THE USA IN 2018

TABLE A.

2013-17 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2012 NATIONAL TALL FESCUE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
AR1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
CA3	SANDY LOAM	7.1-7.5	0-60	241-375	5.1-6.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
CT1	SANDY LOAM	5.6-6.0	0-60	241-375	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
GA1	SANDY LOAM	4.6-5.5	0-60	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	1.1-2.0	FULL SUN	2.6-3.0	NO IRRIGATION
IL2	SILTY CLAY LOAM	6.1-6.5	0-60	241-375	1.1-2.0	PARTIAL SHADE	2.1-2.5	NO IRRIGATION
IN1	SILT LOAM AND SILT	7.1-7.5	0-60	151-240	2.1-3.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
KS2	SANDY LOAM	-	-	-	1.1-2.0	FULL SUN	3.1-3.5	TO PREVENT STRESS
KY1	SILT LOAM AND SILT	4.6-5.5	451+	501+	1.1-2.0	FULL SUN	3.1-3.5	TO PREVENT STRESS
KY2	SILT LOAM AND SILT	4.6-5.5	271-450	376-500	1.1-2.0	FULL SUN	3.1-3.5	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
MO1	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	1.1-2.0	FULL SUN	3.1-3.5	ONLY DURING SEVERE STRESS
MS1	SANDY LOAM	7.1-7.5	151-270	376-500	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
NC1	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	61-150	241-375	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	271-450	376-500	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ3	LOAM	6.1-6.5	61-150	241-375	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
OK1	LOAM	7.1-7.5	61-150	376-500	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
PA1	LOAM	6.6-7.0	61-150	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
PA2	LOAM	6.6-7.0	61-150	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
TN1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
TN2	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
UT1	SILT LOAM AND SILT	7.1-7.5	0-60	0-150	-	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
UT2	-	-	-	-	-	-	-	-
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
VA2	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2013-17

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
AR1			X	X	X	X	X	X	X	X	X		X		X
CA3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CT1				X	X	X	X	X	X	X	X		X	X	X
GA1	X	X	X	X	X	X	X	X	X	X	X	X	X		
IA1				X	X	X	X	X	X	X			X	X	X
IL1				X	X	X	X	X	X	X			X	X	X
IL2			X	X	X	X	X	X	X	X	X			X	X
IN1					X	X	X	X	X	X	X		X	X	X
KS2			X	X	X	X	X	X	X	X			X	X	X
KY1			X	X	X	X	X	X	X	X	X				
KY2															
MD1				X	X	X	X	X	X	X	X				
MO1			X	X	X	X	X	X	X	X	X		X		X
MS1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NC1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NE1				X	X	X	X	X	X	X			X	X	X
NJ1				X	X	X	X	X	X	X			X	X	X
NJ2				X	X	X	X	X	X	X	X		X	X	X
NJ3															
OK1			X	X	X	X	X	X	X	X	X	X	X	X	X
PA1						X	X			X				X	
PA2															
TN1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TN2															
UT1				X	X	X	X	X	X	X			X	X	X
UT2															
VA1				X	X	X	X	X	X	X	X		X		
VA2				X	X	X	X	X	X	X	X	X			

TABLE B.
(CONT'D)

LOCATIONS AND DATA COLLECTED IN 2013-17

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER			WINTER COLOR	TYPHULA BLIGHT	LEAF SPOT	RED THREAD	BROWN PATCH		PYTHIUM BLIGHT	BROWN PATCH		PINK SNOW MOLD
					SPRING	SUMMER	FALL					WARM TEMP.	TEMP.				
AR1	X		X		X	X	X					X					
CA3		X	X	X	X	X	X	X						X			
CT1									X			X					
GA1							X	X									
IA1																	
IL1																	
IL2	X				X	X	X										
IN1		X	X									X					
KS2												X					
KY1	X							X				X					
KY2												X			X		
MD1												X					X
MO1	X					X	X	X				X					
MS1	X								X								
NC1	X	X	X	X	X	X	X	X	X				X				
NE1																	
NJ1	X																
NJ2	X										X		X				
NJ3																	
OK1			X	X	X	X	X					X		X			
PA1																	
PA2																	
TN1					X	X	X	X				X		X	X		
TN2																	
UT1																	
UT2																	
VA1																	
VA2																	

TABLE B.
(CONT'D)

LOCATIONS AND DATA COLLECTED IN 2013-17

LOCATION	FALL	FALL	FALL	POA	PERCENT	RELATIVE	EARLY	NET	PERCENT	BROWN PATCH RATINGS				PERCENT			GRAY	
	COLOR	COLOR	COLOR							ANNUA	ESTABLISH-	GROWTH	SPRING	WINTER	BROWN	PATCH	RATINGS	PYTHIUM	RATINGS	LEAF	SPOT
	OCTOBER	NOVEMBER	DECEMBER		MENT	RATE	GROUND	BLOTCH	DAMAGE	JUN	JUL	AUG	SEP	JUN	JUL	AUG	AUG	OCT
AR1		X																
CA3																		
CT1					X													
GA1			X															
IA1																		
IL1	X	X			X													
IL2																		
IN1							X					X	X					
KS2		X	X		X													
KY1																		
KY2																		
MD1							X											
MO1					X													
MS1			X		X													
NC1									X	X	X	X	X				X	X
NE1	X				X													
NJ1																		
NJ2											X							
* NJ3								X			X	X						
OK1	X		X	X	X					X		X	X					
PA1																		
* PA2																		
TN1														X	X	X		
* TN2																		
UT1					X													
* UT2																		
VA1																		
* VA2																		

* MORE TRAFFIC DATA FOR NJ3, PA2 TN2 AND VA2 IN TABLE 25-28, AND MORE SPREAD STUDY DATA FOR UT2 IN TABLE 33.

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN IN FULL SUN AT TWENTY LOCATIONS IN THE U.S.
2013-17 DATA

NAME	ENTRY #	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																			MEAN	
		AR1	CA3	CT1	GA1	IA1	IL1	IN1	KY1	MD1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	PA1	TN1	*UT1		VA1
*4TH MILLENNIUM SRP (U43)	7	7.6	7.1	6.9	5.4	7.0	6.2	7.0	7.1	7.0	7.0	6.2	6.6	5.6	7.7	6.1	4.5	7.9	7.8	6.1	7.3	6.7
*REGENERATE	3	7.5	6.8	6.5	5.4	7.4	6.4	6.9	7.1	7.3	6.7	6.2	6.1	5.6	7.8	6.7	4.3	7.9	7.5	6.1	6.8	6.6
*RAPTOR III (ZW 44)	5	7.3	6.3	6.7	5.5	7.1	6.4	6.6	7.1	7.1	7.0	6.3	6.4	5.7	7.5	5.8	4.9	8.2	7.7	6.2	7.2	6.6
MET 1	21	7.3	6.5	6.5	5.7	7.1	6.4	6.6	7.1	6.7	6.6	6.2	6.4	5.6	7.6	6.1	5.0	7.8	7.6	6.1	7.3	6.6
*AMITY (CCR2)	94	7.7	6.6	6.5	5.3	7.0	6.5	6.7	7.2	6.8	6.8	6.2	6.3	5.6	7.5	6.1	5.0	8.0	7.6	6.1	7.3	6.6
*TRAVERSE 2 SRP (W45)	6	7.6	6.2	6.3	5.5	7.1	6.3	6.6	7.2	7.0	7.3	6.1	6.4	5.7	7.8	6.0	5.0	8.2	7.6	5.9	7.0	6.6
*REBOUNDER (PICK-W43)	34	7.6	6.3	7.0	5.3	7.1	6.4	6.5	7.1	7.0	6.4	6.2	5.9	5.7	7.3	6.1	5.0	7.9	7.6	6.0	6.7	6.5
*TITANIUM 2LS (PPG-TF-152)	90	7.4	6.4	6.7	5.9	6.6	6.4	6.6	7.1	6.5	6.5	6.1	6.4	5.5	7.5	6.1	5.1	7.8	7.7	5.6	7.1	6.5
*AVENGER II (PPG-TF-156)	80	7.7	5.9	6.7	5.7	6.6	6.3	6.7	7.1	6.7	6.8	6.2	6.2	5.8	7.4	6.2	5.3	7.7	7.6	6.0	6.9	6.5
F711	22	7.9	6.3	6.6	5.4	7.0	6.3	6.6	7.1	6.6	6.2	6.1	6.7	5.4	7.6	5.4	5.2	7.4	7.8	5.9	7.2	6.5
*REFLECTION (U45)	37	7.5	6.4	6.8	5.6	7.1	6.2	6.6	7.1	6.7	6.5	6.1	5.9	5.7	7.6	5.8	5.0	7.7	7.6	5.9	6.7	6.5
*THOR (PPG-TF-157)	81	7.5	6.2	7.1	5.3	7.1	6.0	6.6	7.1	6.4	6.8	6.2	6.0	5.6	7.2	6.3	5.6	6.8	7.8	5.8	6.8	6.5
*TECHNIQUE (RZ2)	70	7.4	6.8	6.4	5.2	7.0	6.3	6.5	7.0	6.7	6.1	6.3	6.6	5.6	7.6	5.5	5.3	7.8	7.4	5.3	7.0	6.5
*PARAMOUNT (PPG-TF-137)	84	7.4	6.3	6.4	5.6	6.9	6.3	6.7	7.1	6.6	6.4	6.2	6.2	5.5	7.2	5.8	5.0	7.7	7.6	6.0	6.9	6.5
*ROCKWELL (LTP-TWUU)	44	7.3	6.5	6.7	5.3	7.0	6.0	6.4	7.0	6.6	6.6	6.2	6.3	5.7	7.3	6.0	4.8	7.3	7.6	5.8	6.9	6.4
*TRINITY (BIZEM)	93	7.5	6.3	6.5	5.6	7.1	6.4	6.6	7.1	6.4	5.9	6.1	6.3	5.6	7.5	5.5	4.9	7.4	7.6	6.0	6.6	6.4
*BLACK TAIL (PPG-TF-150)	92	7.4	6.6	6.6	5.4	6.9	6.5	6.5	7.2	6.4	6.4	6.2	6.1	5.5	7.9	5.6	5.1	7.1	7.5	5.4	6.8	6.4
*SUPERSONIC (PPG-TF-170)	83	7.3	6.4	6.7	5.7	6.5	6.4	6.6	7.1	6.7	6.2	6.2	5.9	5.6	6.9	6.0	5.0	7.4	7.6	5.6	7.1	6.4
PPG-TF-135	85	7.3	6.3	6.8	5.6	7.1	6.3	6.5	7.0	6.6	6.5	6.2	6.4	5.5	7.1	5.7	5.0	7.3	7.5	5.6	6.7	6.4
*FAYETTE (IS-TF 291)	23	7.7	6.2	6.6	5.3	7.1	6.0	6.5	7.1	6.4	6.3	6.2	5.5	5.5	7.2	5.9	5.1	7.9	7.7	6.0	6.9	6.4
*GTO (BURL TF-2)	41	6.9	6.5	6.3	5.8	7.0	6.5	6.4	6.9	6.5	6.4	6.1	6.3	5.5	7.0	5.7	5.1	7.1	7.7	5.7	6.7	6.4
*FIRECRACKER SLS (PPG-TF-105)	87	7.1	6.4	6.8	5.2	7.2	6.2	6.6	6.9	6.4	6.1	6.1	6.2	5.5	7.3	6.1	5.0	6.8	7.7	5.8	6.5	6.4
MET-3	95	7.6	6.5	6.3	5.4	6.8	6.3	6.5	7.0	6.5	6.2	6.2	6.5	5.5	6.9	5.7	5.1	7.0	7.5	5.8	7.0	6.4
*HOT ROD (BURL TF-136)	42	6.9	6.5	6.2	5.0	7.0	6.4	6.5	7.2	6.8	6.2	6.0	6.3	5.5	7.1	5.8	4.8	8.1	7.5	6.0	6.7	6.4
W41	96	6.9	6.4	6.7	5.4	7.1	6.6	6.6	7.1	6.2	6.5	6.2	5.8	5.5	7.1	5.4	5.0	7.3	7.6	5.9	7.0	6.4
*ROWDY (SRX-TPC)	32	7.8	6.4	6.5	5.2	6.8	6.2	6.5	6.9	6.5	6.1	6.1	6.2	5.7	7.4	5.7	5.3	6.7	7.6	5.8	6.7	6.4
*HEMI	58	7.3	6.4	6.6	5.6	6.8	6.4	6.7	7.1	6.4	6.4	6.0	5.8	5.5	7.2	5.6	4.7	8.3	7.4	5.6	6.7	6.4
*VALKYRIE LS (PPG-TF-172)	88	7.1	6.0	6.4	5.4	6.7	6.1	6.5	7.0	6.4	6.2	6.3	6.6	5.6	7.2	5.7	5.3	6.7	7.5	5.7	7.2	6.4
*MAESTRO (T31)	73	7.5	6.7	6.5	5.3	6.5	6.3	6.6	7.2	6.8	6.3	6.2	6.1	5.6	6.7	5.6	5.2	7.6	7.5	5.6	6.5	6.4
*STANDOUT (IS-TF 308 SEL)	51	7.4	6.0	6.2	5.5	6.6	6.2	6.5	7.1	6.4	6.0	6.0	6.2	5.6	7.2	5.6	4.9	8.1	7.7	5.8	6.8	6.4
PSG-PO1	36	7.6	6.7	6.7	5.4	6.9	6.3	6.5	7.0	6.6	6.8	6.1	5.9	5.5	6.4	5.6	4.6	7.8	7.4	5.8	6.8	6.4
*FIREWALL (PSG-WE1)	33	7.5	6.3	6.3	5.1	6.5	6.4	6.4	7.0	6.5	6.7	6.1	5.9	5.7	6.8	5.7	4.7	7.7	7.6	6.1	6.8	6.3
IS-TF 311	52	7.4	6.7	6.7	5.4	6.5	6.1	6.4	7.0	6.3	6.1	6.0	6.1	5.4	7.0	5.6	5.3	7.2	7.5	5.9	6.4	6.3
*CROSSFIRE 4 (IS-TF 310 SEL)	54	7.1	6.2	6.8	5.7	6.3	6.1	6.4	7.0	6.1	6.6	6.4	5.8	5.5	6.8	5.7	5.5	7.0	7.6	6.0	6.7	6.3
B23	38	7.3	6.4	6.4	4.9	7.1	6.1	6.8	7.0	6.4	6.6	5.9	5.8	5.6	7.5	5.9	4.5	7.6	7.6	5.8	6.3	6.3
*BLOODHOUND (MET 6 SEL)	47	7.5	6.2	6.4	5.2	6.7	6.2	6.6	7.0	6.4	6.3	5.9	6.2	5.7	6.9	5.4	4.9	7.1	7.4	5.5	6.9	6.3
PPG-TF-169	82	7.3	6.4	6.1	5.7	6.8	6.4	6.6	7.2	6.3	6.5	6.2	6.0	5.5	6.5	5.2	4.9	7.4	7.4	5.4	7.1	6.3
*WICHITA (PPG-TF-151)	89	7.0	6.2	6.6	5.6	6.8	6.0	6.4	6.8	6.3	6.0	6.2	6.5	5.4	6.9	5.4	5.3	6.3	7.6	5.5	6.6	6.3
*TEMPLE (DZ1)	72	6.9	6.5	6.0	5.3	7.0	6.2	6.4	6.9	6.4	6.7	6.3	5.7	5.5	7.1	5.7	5.0	7.1	7.6	5.4	6.7	6.3
*SCREAMER LS (PPG-TF-148)	91	6.9	6.7	6.4	5.2	6.6	5.8	6.6	6.9	6.2	6.5	6.1	6.0	5.5	6.9	5.7	4.6	7.7	7.6	5.6	6.9	6.3
*FIREBIRD 2	59	7.3	6.1	6.1	5.5	6.7	6.1	6.6	7.0	6.4	6.0	6.3	5.7	5.3	7.3	5.6	5.0	6.4	7.6	5.7	6.8	6.3
*EMBRACE (PST-5EV2)	61	7.7	6.4	6.2	5.7	6.9	6.0	6.4	6.9	6.2	5.9	6.1	6.1	5.3	7.2	5.2	6.0	6.4	7.5	5.2	6.8	6.3
*GRANDE 3	35	7.5	6.3	6.3	5.4	6.6	6.2	6.3	6.9	6.3	6.7	6.2	6.2	5.5	6.5	5.4	5.1	7.1	7.6	5.8	6.5	6.3
*MICHELANGELO (LTP-F5DPDR)	45	7.4	6.1	6.6	5.5	6.8	6.3	6.4	7.0	6.1	6.2	6.3	6.3	5.5	6.6	5.3	5.3	5.9	7.6	5.7	6.3	6.3

TABLE 1.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN IN FULL SUN AT TWENTY LOCATIONS IN THE U.S.
2013-17 DATA

NAME	ENTRY #	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																				MEAN
		AR1	CA3	CT1	GA1	IA1	IL1	IN1	KY1	MD1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	PA1	TN1	*UT1	VA1	
*VERT (ATF 1612)	39	7.2	6.5	6.2	5.3	6.9	6.3	6.4	6.9	6.2	6.2	6.2	5.8	5.5	7.2	5.6	4.7	7.1	7.6	5.5	6.4	6.3
*HOUNDOG8 (IS-TF 307 SEL)	50	7.3	6.0	6.3	5.3	6.8	6.1	6.6	7.0	6.1	6.6	6.0	5.8	5.4	7.2	4.9	5.5	6.6	7.6	5.8	7.1	6.3
*LEONARDO (LTP-FSD)	43	7.5	6.3	6.4	5.4	6.9	6.0	6.3	6.8	6.2	6.6	6.3	6.3	5.5	6.5	5.3	5.3	5.9	7.6	5.7	6.7	6.3
*XTENDER (PPG-TF-139)	99	7.8	6.3	5.9	5.4	6.9	6.2	6.5	6.9	6.0	6.0	6.1	5.9	5.5	6.8	5.5	5.1	7.2	7.7	5.6	6.8	6.3
JS 916	19	7.4	6.3	5.7	5.3	6.7	6.2	6.3	7.0	6.3	6.4	6.3	5.8	5.6	7.0	5.3	5.1	7.4	7.4	5.5	6.9	6.2
*FAITH	77	7.2	6.3	6.4	5.5	6.9	6.2	6.2	6.9	5.9	6.3	6.2	6.0	5.6	6.2	5.4	5.2	6.7	7.5	6.0	6.7	6.2
*TRENDING (IS-TF 269 SEL)	26	6.9	6.0	6.2	5.3	7.0	6.2	6.6	6.8	6.1	6.0	6.3	5.7	5.5	6.7	5.8	4.9	7.0	7.7	6.0	5.9	6.2
*RHAMBLER 2 SRP (LSD)	8	7.4	6.2	6.5	5.1	6.9	5.7	6.3	6.8	6.6	6.0	5.6	5.9	5.5	7.5	5.1	5.3	6.8	7.7	5.7	6.6	6.2
*DIABLO (IS-TF 330)	48	7.5	6.3	6.5	5.2	6.9	6.2	6.4	6.9	5.9	6.3	6.0	6.0	5.6	6.8	5.4	5.0	6.7	7.7	5.8	6.0	6.2
*TURFWAY (IS-TF 282 M2)	27	7.9	6.2	6.1	5.5	6.6	6.1	6.3	6.9	5.9	6.1	6.4	5.6	5.3	6.6	5.4	5.4	6.7	7.7	6.0	6.7	6.2
ATF 1704	40	7.4	6.3	6.3	5.7	6.4	6.0	6.2	6.8	5.8	6.0	6.1	6.3	5.4	6.8	5.2	4.9	7.1	7.5	5.4	6.9	6.2
*FOXHOUND (IS-TF 284 M2)	28	7.2	5.8	6.4	5.3	6.9	6.2	6.1	6.8	6.0	6.2	6.3	5.6	5.4	6.7	5.4	5.3	7.0	7.7	5.9	6.2	6.2
*RHIZING MOON (IS-TF 305 SEL)	25	7.7	6.1	6.4	5.6	6.7	6.4	6.4	7.0	6.0	6.0	6.1	5.6	5.4	6.6	4.9	5.2	6.9	7.7	5.5	6.4	6.2
*FESNOVA	4	7.7	6.2	6.5	5.1	7.0	6.2	6.3	6.9	6.0	6.7	6.1	5.9	5.3	6.5	4.9	5.0	6.3	7.6	5.7	6.8	6.2
PPG-TF-138	98	7.1	6.0	6.4	5.3	6.8	6.0	6.5	6.9	6.1	6.6	5.9	5.8	5.4	6.2	5.3	5.0	7.0	7.6	5.7	6.7	6.2
*HOVER (BURL TF-69)	114	6.4	6.5	6.3	4.9	6.4	6.2	6.3	6.9	6.1	5.7	6.2	5.6	5.6	6.7	5.3	3.9	6.9	7.4	5.8	6.9	6.1
ATF 1754	57	7.4	5.9	6.0	5.6	6.9	6.3	6.3	7.0	6.0	5.9	6.1	6.0	5.5	6.2	5.2	4.4	6.6	7.4	5.4	6.8	6.1
*KINGDOM (DB1)	69	6.7	6.2	6.2	5.3	6.9	6.3	6.1	7.0	5.9	6.4	6.2	5.9	5.4	6.5	5.3	4.2	6.7	7.5	6.1	6.1	6.1
*BULLSEYE	60	7.5	6.0	6.4	5.0	6.9	6.1	6.2	6.9	6.0	6.4	5.9	5.5	5.4	7.1	5.2	4.8	6.2	7.5	5.9	6.2	6.1
*UNITUS (IS-TF 289)	46	7.2	6.2	6.2	5.6	7.2	6.1	6.3	6.9	5.8	6.0	6.0	5.6	5.3	6.4	5.1	5.1	6.3	7.5	6.1	6.0	6.1
RAD-TF-89	101	6.7	6.4	5.7	5.3	7.0	6.2	6.3	6.9	6.0	6.8	6.1	5.7	5.4	6.6	5.3	4.1	6.4	7.3	5.8	6.6	6.1
IS-TF-287	49	7.7	6.2	6.5	5.2	6.4	6.0	6.1	6.9	5.8	6.0	5.9	5.5	5.4	6.6	5.3	5.0	6.8	7.5	5.6	6.5	6.1
K12-MCD	104	7.5	6.2	6.5	5.3	6.8	6.0	6.4	6.7	5.6	6.3	6.2	5.8	5.4	6.0	4.9	5.6	6.0	7.4	5.8	6.4	6.1
*FALCON V	116	7.1	6.6	6.2	5.4	6.9	5.9	6.3	6.8	5.7	5.8	5.6	5.8	5.6	6.6	5.1	4.7	7.1	7.3	5.5	6.7	6.1
*CATALYST	10	7.1	6.3	6.1	4.6	7.1	6.0	6.5	6.8	6.0	6.3	5.9	6.1	5.5	6.6	4.7	4.4	6.2	7.4	5.9	6.9	6.1
*NIGHTCRAWLER (IS-TF 285)	53	7.2	5.7	6.3	5.4	6.6	6.0	6.5	6.9	5.9	6.2	5.7	5.5	5.4	6.5	5.2	4.6	7.1	7.6	5.9	6.3	6.1
*THUNDERSTRUCK (TD1)	71	7.2	6.2	6.1	5.3	7.1	6.2	6.2	6.8	5.6	6.7	6.1	5.6	5.5	5.7	5.4	4.9	6.2	7.6	5.9	6.0	6.1
*MERIDIAN (PST-5GRB)	62	7.3	6.0	5.5	5.2	6.7	5.7	6.4	6.7	5.7	5.9	6.2	5.8	5.6	7.3	5.1	5.4	6.4	7.5	5.2	6.4	6.1
*REBEL V (ATF 1736)	56	7.5	6.2	6.1	5.6	6.6	6.1	6.2	6.9	5.9	6.1	6.1	5.6	5.3	6.2	4.8	5.0	6.6	7.4	5.4	6.6	6.1
PPG-TF-115	86	7.4	6.0	6.5	5.4	6.6	6.0	6.3	6.9	5.9	6.5	6.1	5.6	5.4	5.6	5.0	5.4	5.4	7.6	5.6	6.6	6.1
*SALTILLO (PST-5SALT)	63	7.1	5.8	6.1	5.1	6.8	6.2	6.3	6.8	6.1	6.1	6.0	5.9	5.3	6.2	4.8	5.5	5.7	7.5	5.3	6.9	6.1
PST-5BRK	68	7.3	5.8	6.5	5.6	7.0	6.0	6.2	6.7	6.1	6.3	5.9	5.9	5.4	5.6	4.6	5.3	5.1	7.5	5.5	6.9	6.1
PST-5BP0	67	7.3	6.0	6.1	5.7	6.8	6.0	6.3	6.7	6.0	6.0	6.0	6.1	5.4	5.9	4.6	5.4	5.4	7.3	5.4	6.5	6.1
*OLYMPUS (RAD-TF-88)	108	6.7	6.4	6.2	5.5	6.4	6.2	6.3	6.9	5.7	6.6	6.0	5.4	5.4	6.6	5.6	3.3	7.0	7.5	5.4	6.2	6.0
IS-TF 272	55	7.2	6.1	6.0	5.1	6.9	6.1	6.0	6.9	5.9	6.1	6.2	5.3	5.3	6.0	4.9	5.0	6.7	7.6	6.3	5.8	6.0
RAD-TF-92	102	7.1	6.3	5.4	5.1	6.7	5.9	6.2	6.8	5.7	5.9	6.2	5.5	5.6	7.1	5.3	3.7	7.1	7.4	5.8	6.2	6.0
PST-5MVD	106	7.4	6.2	6.2	5.4	6.6	6.1	6.4	6.7	5.7	6.4	6.0	5.7	5.4	6.0	4.7	5.1	6.1	7.3	5.3	6.4	6.0
IS-TF 276 M2	24	6.8	6.1	6.0	5.4	7.1	5.8	6.1	6.8	5.8	6.1	6.0	5.9	5.4	5.6	4.7	5.0	6.2	7.5	5.6	6.4	6.0
*TERRANO	1	7.3	6.6	5.9	5.2	6.8	6.0	6.2	6.6	5.8	6.6	5.9	6.0	5.3	5.9	4.6	5.8	5.2	7.6	5.5	6.4	6.0
K12-05	79	6.8	6.1	5.8	5.5	6.6	5.8	6.1	6.7	5.6	6.4	6.2	5.4	5.3	6.0	5.3	4.9	6.0	7.5	5.7	6.1	6.0
*CAESAR (TY 10)	30	7.4	6.0	5.8	5.3	6.8	6.0	6.0	6.7	5.8	6.3	6.1	5.8	5.2	5.8	4.5	5.1	5.3	7.6	5.8	6.2	6.0
*DYNAMITE LS (PPG-TF-145)	97	7.6	6.3	6.1	5.4	6.8	5.9	6.4	6.8	5.4	6.3	5.8	5.2	5.2	6.0	4.4	4.9	6.2	7.6	5.8	6.3	6.0
*ARES (PPG-TF-142)	100	7.1	6.1	6.3	5.1	6.7	5.8	6.2	6.7	5.2	6.7	5.8	5.2	5.3	6.1	4.5	5.2	6.9	7.6	5.7	6.1	5.9
*MEMPHIS (GO-DFR)	103	6.8	5.9	5.7	5.3	6.8	5.9	6.3	6.7	5.4	6.1	6.0	5.5	5.2	6.0	4.5	5.1	5.4	7.5	5.9	5.9	5.9
*SWAGGER (PST-5R05)	66	7.4	5.7	6.0	5.1	6.5	5.5	6.0	6.6	5.5	6.0	5.9	5.6	5.3	5.8	4.2	5.4	6.0	7.5	5.6	6.6	5.9

TABLE 1.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN IN FULL SUN AT TWENTY LOCATIONS IN THE U.S.
2013-17 DATA

NAME	ENTRY #	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																				MEAN
		AR1	CA3	CT1	GA1	IA1	IL1	IN1	KY1	MD1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	PA1	TN1	*UT1	VA1	
*TEMPTATION (OR-21)	29	7.0	5.6	5.8	4.8	6.9	6.0	5.9	6.9	5.5	6.3	5.8	5.8	5.4	5.5	4.4	5.5	5.2	7.6	5.8	6.1	5.9
PST-5DZP	65	6.8	6.0	5.9	5.2	6.4	5.8	6.3	6.6	5.4	5.9	5.8	5.2	5.3	6.2	4.5	5.1	5.6	7.3	5.7	6.2	5.9
PST-5EX2	105	7.2	6.0	6.1	5.5	6.5	5.7	6.0	6.7	5.6	6.0	6.1	6.3	5.3	4.9	3.6	5.4	5.6	7.3	5.1	6.4	5.8
PSG-GSD	74	7.2	6.0	6.3	5.2	6.7	5.7	6.3	6.6	5.0	6.3	6.0	5.7	5.3	5.8	4.1	5.2	5.2	7.4	5.1	5.8	5.8
JS 818	17	6.3	6.2	6.1	4.4	6.9	5.9	6.1	6.7	5.6	6.0	5.9	5.3	5.2	5.9	4.6	4.9	5.4	7.3	5.3	5.8	5.8
RAD-TF-83	107	6.7	5.8	5.8	4.9	6.6	5.9	6.0	6.8	5.2	6.1	6.2	5.2	5.2	5.5	5.2	3.9	5.4	7.2	5.7	5.9	5.8
*FALCON IV	115	7.1	6.4	6.4	4.9	6.8	5.7	6.2	6.6	5.2	6.3	5.9	5.2	5.4	5.2	3.8	5.1	5.0	7.3	5.2	6.0	5.8
*RAIN DANCE (PST-5SDT)	64	6.4	5.7	5.8	5.4	6.7	5.6	5.9	6.6	4.9	6.0	6.0	6.1	5.1	5.3	4.2	5.6	5.4	7.2	5.3	6.2	5.8
BAR FA 121095	112	7.1	6.0	5.5	5.4	6.5	5.7	6.0	6.6	5.1	6.3	6.1	4.9	5.3	5.6	4.8	4.8	5.3	7.3	5.6	5.6	5.7
PSG-TT4	76	6.9	6.0	6.0	5.1	6.3	5.7	6.2	6.6	5.4	6.2	6.0	5.7	5.1	4.8	4.3	4.8	5.0	7.3	5.1	6.4	5.7
PSG-8BP2	75	6.9	5.9	6.1	5.0	6.4	5.6	6.0	6.5	5.0	6.2	5.9	5.2	5.1	5.2	4.3	5.4	5.4	7.2	5.4	5.8	5.7
*INSPIRATION (PST-R5NW)	113	6.9	6.0	5.7	5.1	6.7	5.5	5.9	6.6	4.9	6.2	6.0	5.5	5.3	4.8	3.7	5.3	4.9	7.3	5.3	6.2	5.7
JS 819	16	6.5	6.3	5.7	5.1	6.5	6.0	5.9	6.6	5.0	6.2	5.8	5.3	5.2	4.8	4.3	4.9	4.8	7.2	5.3	5.9	5.7
JS 809	18	5.8	5.9	5.5	5.2	6.7	5.7	5.9	6.6	5.2	5.9	5.8	5.3	5.2	5.4	4.0	4.7	5.4	7.2	5.3	5.8	5.6
204 RES. BLK4	15	6.3	6.4	5.2	5.1	6.1	5.5	5.5	6.5	4.9	5.4	5.9	5.1	5.1	6.2	4.2	3.8	5.6	7.7	5.7	5.8	5.6
*FRONTLINE (EXP TF-09)	31	7.1	5.7	5.5	4.6	6.9	5.6	5.9	6.6	4.9	5.8	5.9	5.4	5.2	4.7	3.9	5.3	4.7	7.4	5.2	5.7	5.6
BAR FA 121089	110	7.1	5.6	5.5	5.0	6.3	5.8	5.7	6.5	5.2	6.0	5.9	5.4	5.0	4.6	4.3	5.0	5.0	7.3	5.0	5.7	5.6
K12-13	78	7.0	5.9	4.9	5.4	6.3	5.4	5.8	6.6	5.1	5.8	5.8	4.9	5.0	5.5	4.0	4.5	5.0	7.3	5.8	5.2	5.5
COMP. RES. SST	14	6.5	5.7	5.3	5.1	6.3	5.7	5.6	6.5	4.9	6.0	5.8	5.1	5.1	5.2	4.4	3.1	5.6	7.4	5.6	5.6	5.5
BAR FA 121091	111	6.6	5.8	5.4	4.8	6.3	5.9	5.8	6.5	5.2	5.9	5.9	5.2	5.1	4.6	3.6	4.6	4.2	7.2	5.3	5.7	5.5
*ANNIHILATOR	13	7.1	6.3	5.7	4.8	6.0	5.6	5.7	6.4	4.4	6.0	5.8	5.1	5.0	4.4	4.0	3.9	5.7	7.4	5.2	5.5	5.5
*AQUADUCT	9	6.5	5.9	5.2	4.4	6.1	5.3	5.9	6.3	4.9	5.6	5.8	5.7	5.1	4.5	3.3	5.4	4.8	7.2	4.7	6.2	5.4
JS 825	20	6.9	5.5	5.4	5.0	6.6	5.5	5.6	6.4	4.8	5.8	5.9	5.2	5.0	4.2	3.4	5.0	4.2	7.2	5.0	5.8	5.4
*MARAUDER	11	6.8	6.1	5.1	4.7	6.0	5.8	5.7	6.4	4.4	5.5	5.8	4.9	5.0	4.7	4.1	3.4	5.0	7.4	5.1	5.7	5.4
*WARHAWK	12	6.9	6.2	5.1	4.8	6.3	5.5	5.5	6.3	4.1	5.7	5.9	5.1	5.0	3.9	3.6	4.7	4.4	7.5	5.3	5.6	5.3
BAR FA 120878	109	6.5	5.2	5.1	4.9	5.9	4.7	5.3	5.9	3.7	5.5	5.4	4.9	4.6	2.0	2.0	5.1	3.0	7.0	4.1	5.6	4.8
*KY-31	2	5.0	4.1	3.3	4.2	4.7	3.2	4.1	4.0	2.8	4.3	4.4	4.3	3.5	1.1	1.2	5.0	1.3	6.1	2.5	5.3	3.7
LSD VALUE		0.7	0.7	0.9	0.9	0.8	0.7	0.5	0.3	0.7	0.7	0.5	0.9	0.4	1.1	0.8	0.8	1.0	0.4	0.7	0.9	0.2
C.V. (%)		6.5	7.2	8.9	11.0	7.0	6.9	5.1	3.1	7.2	6.5	4.8	9.6	4.9	11.2	9.9	10.1	9.2	3.1	7.9	8.3	7.6

* COMMERCIALY AVAILABLE 2018

* UT1 DATA FROM UTAH WAS ONLY COLLECTED IN 2013

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 2.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 GROWN AT TWELVE LOCATIONS IN THE U.S. 1/
 MAINTAINED USING "SCHEDULE A" **
 2013-17 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/												MEAN	
	AR1	CA3	GA1	IA1	MD1	MS1	NC1	NE1	NJ1	NJ2	PA1	OK1		TN1
REGENERATE	7.5	6.8	5.4	7.4	7.3	6.2	6.1	5.6	7.8	6.7	7.9	4.3	7.5	6.6
4TH MILLENNIUM SRP (U43)	7.6	7.1	5.4	7.0	7.0	6.2	6.6	5.6	7.7	6.1	7.9	4.5	7.8	6.6
RAPTOR III (ZW 44)	7.3	6.3	5.5	7.1	7.1	6.3	6.4	5.7	7.5	5.8	8.2	4.9	7.7	6.5
TRAVERSE 2 SRP (W45)	7.6	6.2	5.5	7.1	7.0	6.1	6.4	5.7	7.8	6.0	8.2	5.0	7.6	6.5
MET 1	7.3	6.5	5.7	7.1	6.7	6.2	6.4	5.6	7.6	6.1	7.8	5.0	7.6	6.5
AMITY (CCR2)	7.7	6.6	5.3	7.0	6.8	6.2	6.3	5.6	7.5	6.1	8.0	5.0	7.6	6.5
TECHNIQUE (RZ2)	7.4	6.8	5.2	7.0	6.7	6.3	6.6	5.6	7.6	5.5	7.8	5.3	7.4	6.5
REBOUNDER (PICK-W43)	7.6	6.3	5.3	7.1	7.0	6.2	5.9	5.7	7.3	6.1	7.9	5.0	7.6	6.5
TITANIUM 2LS (PPG-TF-152)	7.4	6.4	5.9	6.6	6.5	6.1	6.4	5.5	7.5	6.1	7.8	5.1	7.7	6.5
F711	7.9	6.3	5.4	7.0	6.6	6.1	6.7	5.4	7.6	5.4	7.4	5.2	7.8	6.5
REFLECTION (U45)	7.5	6.4	5.6	7.1	6.7	6.1	5.9	5.7	7.6	5.8	7.7	5.0	7.6	6.5
AVENGER II (PPG-TF-156)	7.7	5.9	5.7	6.6	6.7	6.2	6.2	5.8	7.4	6.2	7.7	5.3	7.6	6.5
ROCKWELL (LTP-TWUU)	7.3	6.5	5.3	7.0	6.6	6.2	6.3	5.7	7.3	6.0	7.3	4.8	7.6	6.4
THOR (PPG-TF-157)	7.5	6.2	5.3	7.1	6.4	6.2	6.0	5.6	7.2	6.3	6.8	5.6	7.8	6.4
TRINITY (BIZEM)	7.5	6.3	5.6	7.1	6.4	6.1	6.3	5.6	7.5	5.5	7.4	4.9	7.6	6.4
BLACK TAIL (PPG-TF-150)	7.4	6.6	5.4	6.9	6.4	6.2	6.1	5.5	7.9	5.6	7.1	5.1	7.5	6.4
PARAMOUNT (PPG-TF-137)	7.4	6.3	5.6	6.9	6.6	6.2	6.2	5.5	7.2	5.8	7.7	5.0	7.6	6.4
PPG-TF-135	7.3	6.3	5.6	7.1	6.6	6.2	6.4	5.5	7.1	5.7	7.3	5.0	7.5	6.4
GTO (BURL TF-2)	6.9	6.5	5.8	7.0	6.5	6.1	6.3	5.5	7.0	5.7	7.1	5.1	7.7	6.4
FIRECRACKER SLS (PPG-TF-105)	7.1	6.4	5.2	7.2	6.4	6.1	6.2	5.5	7.3	6.1	6.8	5.0	7.7	6.4
ROWDY (SRX-TPC)	7.8	6.4	5.2	6.8	6.5	6.1	6.2	5.7	7.4	5.7	6.7	5.3	7.6	6.4
FAYETTE (IS-TF 291)	7.7	6.2	5.3	7.1	6.4	6.2	5.5	5.5	7.2	5.9	7.9	5.1	7.7	6.4
SUPERSONIC (PPG-TF-170)	7.3	6.4	5.7	6.5	6.7	6.2	5.9	5.6	6.9	6.0	7.4	5.0	7.6	6.4
MET-3	7.6	6.5	5.4	6.8	6.5	6.2	6.5	5.5	6.9	5.7	7.0	5.1	7.5	6.3
HOT ROD (BURL TF-136)	6.9	6.5	5.0	7.0	6.8	6.0	6.3	5.5	7.1	5.8	8.1	4.8	7.5	6.3
STANDOUT (IS-TF 308 SEL)	7.4	6.0	5.5	6.6	6.4	6.0	6.2	5.6	7.2	5.6	8.1	4.9	7.7	6.3
VALKYRIE LS (PPG-TF-172)	7.1	6.0	5.4	6.7	6.4	6.3	6.6	5.6	7.2	5.7	6.7	5.3	7.5	6.3
MAESTRO (T31)	7.5	6.7	5.3	6.5	6.8	6.2	6.1	5.6	6.7	5.6	7.6	5.2	7.5	6.3
HEMI	7.3	6.4	5.6	6.8	6.4	6.0	5.8	5.5	7.2	5.6	8.3	4.7	7.4	6.3
EMBRACE (PST-5EV2)	7.7	6.4	5.7	6.9	6.2	6.1	6.1	5.3	7.2	5.2	6.4	6.0	7.5	6.3
B23	7.3	6.4	4.9	7.1	6.4	5.9	5.8	5.6	7.5	5.9	7.6	4.5	7.6	6.3
IS-TF 311	7.4	6.7	5.4	6.5	6.3	6.0	6.1	5.4	7.0	5.6	7.2	5.3	7.5	6.3
TEMPLE (DZ1)	6.9	6.5	5.3	7.0	6.4	6.3	5.7	5.5	7.1	5.7	7.1	5.0	7.6	6.3
WICHITA (PPG-TF-151)	7.0	6.2	5.6	6.8	6.3	6.2	6.5	5.4	6.9	5.4	6.3	5.3	7.6	6.3
VERT (ATF 1612)	7.2	6.5	5.3	6.9	6.2	6.2	5.8	5.5	7.2	5.6	7.1	4.7	7.6	6.3
W41	6.9	6.4	5.4	7.1	6.2	6.2	5.8	5.5	7.1	5.4	7.3	5.0	7.6	6.3
PSG-PO1	7.6	6.7	5.4	6.9	6.6	6.1	5.9	5.5	6.4	5.6	7.8	4.6	7.4	6.3
FIREWALL (PSG-WE1)	7.5	6.3	5.1	6.5	6.5	6.1	5.9	5.7	6.8	5.7	7.7	4.7	7.6	6.2
XTENDER (PPG-TF-139)	7.8	6.3	5.4	6.9	6.0	6.1	5.9	5.5	6.8	5.5	7.2	5.1	7.7	6.2
SCREAMER LS (PPG-TF-148)	6.9	6.7	5.2	6.6	6.2	6.1	6.0	5.5	6.9	5.7	7.7	4.6	7.6	6.2
JS 916	7.4	6.3	5.3	6.7	6.3	6.3	5.8	5.6	7.0	5.3	7.4	5.1	7.4	6.2
BLOODHOUND (MET 6 SEL)	7.5	6.2	5.2	6.7	6.4	5.9	6.2	5.7	6.9	5.4	7.1	4.9	7.4	6.2
CROSSFIRE 4 (IS-TF 310 SEL)	7.1	6.2	5.7	6.3	6.1	6.4	5.8	5.5	6.8	5.7	7.0	5.5	7.6	6.2
FIREBIRD 2	7.3	6.1	5.5	6.7	6.4	6.3	5.7	5.3	7.3	5.6	6.4	5.0	7.6	6.2

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWELVE LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE A" **
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	AR1	CA3	GA1	IA1	MD1	MS1	NC1	NE1	NJ1	NJ2	PA1	OK1	TN1	MEAN
GRANDE 3	7.5	6.3	5.4	6.6	6.3	6.2	6.2	5.5	6.5	5.4	7.1	5.1	7.6	6.2
MICHELANGELO (LTP-F5DPDR)	7.4	6.1	5.5	6.8	6.1	6.3	6.3	5.5	6.6	5.3	5.9	5.3	7.6	6.2
RHAMBLER 2 SRP (LSD)	7.4	6.2	5.1	6.9	6.6	5.6	5.9	5.5	7.5	5.1	6.8	5.3	7.7	6.2
LEONARDO (LTP-FSD)	7.5	6.3	5.4	6.9	6.2	6.3	6.3	5.5	6.5	5.3	5.9	5.3	7.6	6.2
TRENDING (IS-TF 269 SEL)	6.9	6.0	5.3	7.0	6.1	6.3	5.7	5.5	6.7	5.8	7.0	4.9	7.7	6.2
PPG-TF-169	7.3	6.4	5.7	6.8	6.3	6.2	6.0	5.5	6.5	5.2	7.4	4.9	7.4	6.2
DIABLO (IS-TF 330)	7.5	6.3	5.2	6.9	5.9	6.0	6.0	5.6	6.8	5.4	6.7	5.0	7.7	6.2
ATF 1704	7.4	6.3	5.7	6.4	5.8	6.1	6.3	5.4	6.8	5.2	7.1	4.9	7.5	6.2
TURFWAY (IS-TF 282 M2)	7.9	6.2	5.5	6.6	5.9	6.4	5.6	5.3	6.6	5.4	6.7	5.4	7.7	6.2
FAITH	7.2	6.3	5.5	6.9	5.9	6.2	6.0	5.6	6.2	5.4	6.7	5.2	7.5	6.2
FOXHOUND (IS-TF 284 M2)	7.2	5.8	5.3	6.9	6.0	6.3	5.6	5.4	6.7	5.4	7.0	5.3	7.7	6.1
HOUNDOG8 (IS-TF 307 SEL)	7.3	6.0	5.3	6.8	6.1	6.0	5.8	5.4	7.2	4.9	6.6	5.5	7.6	6.1
MERIDIAN (PST-5GRB)	7.3	6.0	5.2	6.7	5.7	6.2	5.8	5.6	7.3	5.1	6.4	5.4	7.5	6.1
RHIZING MOON (IS-TF 305 SEL)	7.7	6.1	5.6	6.7	6.0	6.1	5.6	5.4	6.6	4.9	6.9	5.2	7.7	6.1
FESNOVA	7.7	6.2	5.1	7.0	6.0	6.1	5.9	5.3	6.5	4.9	6.3	5.0	7.6	6.1
UNITUS (IS-TF 289)	7.2	6.2	5.6	7.2	5.8	6.0	5.6	5.3	6.4	5.1	6.3	5.1	7.5	6.1
PPG-TF-138	7.1	6.0	5.3	6.8	6.1	5.9	5.8	5.4	6.2	5.3	7.0	5.0	7.6	6.1
ATF 1754	7.4	5.9	5.6	6.9	6.0	6.1	6.0	5.5	6.2	5.2	6.6	4.4	7.4	6.1
BULLSEYE	7.5	6.0	5.0	6.9	6.0	5.9	5.5	5.4	7.1	5.2	6.2	4.8	7.5	6.0
FALCON V	7.1	6.6	5.4	6.9	5.7	5.6	5.8	5.6	6.6	5.1	7.1	4.7	7.3	6.0
RAD-TF-92	7.1	6.3	5.1	6.7	5.7	6.2	5.5	5.6	7.1	5.3	7.1	3.7	7.4	6.0
KINGDOM (DB1)	6.7	6.2	5.3	6.9	5.9	6.2	5.9	5.4	6.5	5.3	6.7	4.2	7.5	6.0
IS-TF-287	7.7	6.2	5.2	6.4	5.8	5.9	5.5	5.4	6.6	5.3	6.8	5.0	7.5	6.0
RAD-TF-89	6.7	6.4	5.3	7.0	6.0	6.1	5.7	5.4	6.6	5.3	6.4	4.1	7.3	6.0
HOVER (BURL TF-69)	6.4	6.5	4.9	6.4	6.1	6.2	5.6	5.6	6.7	5.3	6.9	3.9	7.4	6.0
THUNDERSTRUCK (TD1)	7.2	6.2	5.3	7.1	5.6	6.1	5.6	5.5	5.7	5.4	6.2	4.9	7.6	6.0
K12-MCD	7.5	6.2	5.3	6.8	5.6	6.2	5.8	5.4	6.0	4.9	6.0	5.6	7.4	6.0
REBEL V (ATF 1736)	7.5	6.2	5.6	6.6	5.9	6.1	5.6	5.3	6.2	4.8	6.6	5.0	7.4	6.0
PST-5BP0	7.3	6.0	5.7	6.8	6.0	6.0	6.1	5.4	5.9	4.6	5.4	5.4	7.3	6.0
SALTILLO (PST-5SALT)	7.1	5.8	5.1	6.8	6.1	6.0	5.9	5.3	6.2	4.8	5.7	5.5	7.5	6.0
NIGHTCRAWLER (IS-TF 285)	7.2	5.7	5.4	6.6	5.9	5.7	5.5	5.4	6.5	5.2	7.1	4.6	7.6	6.0
IS-TF 272	7.2	6.1	5.1	6.9	5.9	6.2	5.3	5.3	6.0	4.9	6.7	5.0	7.6	6.0
CATALYST	7.1	6.3	4.6	7.1	6.0	5.9	6.1	5.5	6.6	4.7	6.2	4.4	7.4	6.0
OLYMPUS (RAD-TF-88)	6.7	6.4	5.5	6.4	5.7	6.0	5.4	5.4	6.6	5.6	7.0	3.3	7.5	6.0
TERRANO	7.3	6.6	5.2	6.8	5.8	5.9	6.0	5.3	5.9	4.6	5.2	5.8	7.6	5.9
K12-05	6.8	6.1	5.5	6.6	5.6	6.2	5.4	5.3	6.0	5.3	6.0	4.9	7.5	5.9
IS-TF 276 M2	6.8	6.1	5.4	7.1	5.8	6.0	5.9	5.4	5.6	4.7	6.2	5.0	7.5	5.9
PPG-TF-115	7.4	6.0	5.4	6.6	5.9	6.1	5.6	5.4	5.6	5.0	5.4	5.4	7.6	5.9
PST-5BRK	7.3	5.8	5.6	7.0	6.1	5.9	5.9	5.4	5.6	4.6	5.1	5.3	7.5	5.9
PST-5MVD	7.4	6.2	5.4	6.6	5.7	6.0	5.7	5.4	6.0	4.7	6.1	5.1	7.3	5.9
CAESAR (TY 10)	7.4	6.0	5.3	6.8	5.8	6.1	5.8	5.2	5.8	4.5	5.3	5.1	7.6	5.9
DYNAMITE LS (PPG-TF-145)	7.6	6.3	5.4	6.8	5.4	5.8	5.2	5.2	6.0	4.4	6.2	4.9	7.6	5.8
ARES (PPG-TF-142)	7.1	6.1	5.1	6.7	5.2	5.8	5.2	5.3	6.1	4.5	6.9	5.2	7.6	5.8
MEMPHIS (GO-DFR)	6.8	5.9	5.3	6.8	5.4	6.0	5.5	5.2	6.0	4.5	5.4	5.1	7.5	5.8
SWAGGER (PST-5R05)	7.4	5.7	5.1	6.5	5.5	5.9	5.6	5.3	5.8	4.2	6.0	5.4	7.5	5.8

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWELVE LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE A" **
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	AR1	CA3	GA1	IA1	MD1	MS1	NC1	NE1	NJ1	NJ2	PA1	OK1	TN1	MEAN
PST-5EX2	7.2	6.0	5.5	6.5	5.6	6.1	6.3	5.3	4.9	3.6	5.6	5.4	7.3	5.7
TEMPTATION (OR-21)	7.0	5.6	4.8	6.9	5.5	5.8	5.8	5.4	5.5	4.4	5.2	5.5	7.6	5.7
PSG-GSD	7.2	6.0	5.2	6.7	5.0	6.0	5.7	5.3	5.8	4.1	5.2	5.2	7.4	5.7
PST-5DZP	6.8	6.0	5.2	6.4	5.4	5.8	5.2	5.3	6.2	4.5	5.6	5.1	7.3	5.7
JS 818	6.3	6.2	4.4	6.9	5.6	5.9	5.3	5.2	5.9	4.6	5.4	4.9	7.3	5.7
BAR FA 121095	7.1	6.0	5.4	6.5	5.1	6.1	4.9	5.3	5.6	4.8	5.3	4.8	7.3	5.7
RAIN DANCE (PST-5SDT)	6.4	5.7	5.4	6.7	4.9	6.0	6.1	5.1	5.3	4.2	5.4	5.6	7.2	5.7
RAD-TF-83	6.7	5.8	4.9	6.6	5.2	6.2	5.2	5.2	5.5	5.2	5.4	3.9	7.2	5.6
FALCON IV	7.1	6.4	4.9	6.8	5.2	5.9	5.2	5.4	5.2	3.8	5.0	5.1	7.3	5.6
204 RES. BLK4	6.3	6.4	5.1	6.1	4.9	5.9	5.1	5.1	6.2	4.2	5.6	3.8	7.7	5.6
PSG-TT4	6.9	6.0	5.1	6.3	5.4	6.0	5.7	5.1	4.8	4.3	5.0	4.8	7.3	5.6
PSG-8BP2	6.9	5.9	5.0	6.4	5.0	5.9	5.2	5.1	5.2	4.3	5.4	5.4	7.2	5.5
INSPIRATION (PST-R5NW)	6.9	6.0	5.1	6.7	4.9	6.0	5.5	5.3	4.8	3.7	4.9	5.3	7.3	5.5
JS 809	5.8	5.9	5.2	6.7	5.2	5.8	5.3	5.2	5.4	4.0	5.4	4.7	7.2	5.5
JS 819	6.5	6.3	5.1	6.5	5.0	5.8	5.3	5.2	4.8	4.3	4.8	4.9	7.2	5.5
K12-13	7.0	5.9	5.4	6.3	5.1	5.8	4.9	5.0	5.5	4.0	5.0	4.5	7.3	5.5
BAR FA 121089	7.1	5.6	5.0	6.3	5.2	5.9	5.4	5.0	4.6	4.3	5.0	5.0	7.3	5.5
FRONTLINE (EXP TF-09)	7.1	5.7	4.6	6.9	4.9	5.9	5.4	5.2	4.7	3.9	4.7	5.3	7.4	5.5
COMP. RES. SST	6.5	5.7	5.1	6.3	4.9	5.8	5.1	5.1	5.2	4.4	5.6	3.1	7.4	5.4
AQUADUCT	6.5	5.9	4.4	6.1	4.9	5.8	5.7	5.1	4.5	3.3	4.8	5.4	7.2	5.3
BAR FA 121091	6.6	5.8	4.8	6.3	5.2	5.9	5.2	5.1	4.6	3.6	4.2	4.6	7.2	5.3
ANNIHILATOR	7.1	6.3	4.8	6.0	4.4	5.8	5.1	5.0	4.4	4.0	5.7	3.9	7.4	5.3
JS 825	6.9	5.5	5.0	6.6	4.8	5.9	5.2	5.0	4.2	3.4	4.2	5.0	7.2	5.3
MARAUDER	6.8	6.1	4.7	6.0	4.4	5.8	4.9	5.0	4.7	4.1	5.0	3.4	7.4	5.2
WARHAWK	6.9	6.2	4.8	6.3	4.1	5.9	5.1	5.0	3.9	3.6	4.4	4.7	7.5	5.2
BAR FA 120878	6.5	5.2	4.9	5.9	3.7	5.4	4.9	4.6	2.0	2.0	3.0	5.1	7.0	4.6
KY-31	5.0	4.1	4.2	4.7	2.8	4.4	4.3	3.5	1.1	1.2	1.3	5.0	6.1	3.7
LSD VALUE	0.7	0.7	0.9	0.8	0.7	0.5	0.9	0.4	1.1	0.8	1.0	0.8	0.4	0.2
C.V. (%)	6.5	7.2	11.0	7.0	7.2	4.8	9.6	4.9	11.2	9.9	9.2	10.1	3.1	7.9

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.

** SCHEDULE A (MEDIUM MAINTENANCE) 1. MOWING HEIGHT: 2.0" TO 3.0" 2. NITROGEN RATE: 0.25 - 0.5 LBS. N/1000 SQ. FT./GROWING MONTH (USE 3-6 APPLICATIONS PER YEAR - NOT MONTHLY APPLICATIONS) 3. IRRIGATION: 80 - 95% POTENTIAL ET; 4. FUNGICIDE AND INSECTICIDE USE ONLY IF SEVERE STAND LOSS IS POSSIBLE 5. WEED CONTROL TO PREVENT STAND LOSS

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 GROWN AT SIX LOCATIONS IN THE U.S. 1/
 MAINTAINED USING "SCHEDULE B" *
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	CT1	IL1	IN1	KY1	MO1	VA1	MEAN
4TH MILLENNIUM SRP (U43)	6.9	6.2	7.0	7.1	6.0	7.3	6.7
AMITY (CCR2)	6.5	6.5	6.7	7.2	5.9	7.3	6.7
MET 1	6.5	6.4	6.6	7.1	6.0	7.3	6.7
RAPTOR III (ZW 44)	6.7	6.4	6.6	7.1	5.9	7.2	6.7
TRAVERSE 2 SRP (W45)	6.3	6.3	6.6	7.2	6.5	7.0	6.6
TITANIUM 2LS (PPG-TF-152)	6.7	6.4	6.6	7.1	5.9	7.1	6.6
THOR (PPG-TF-157)	7.1	6.0	6.6	7.1	6.2	6.8	6.6
W41	6.7	6.6	6.6	7.1	5.6	7.0	6.6
AVENGER II (PPG-TF-156)	6.7	6.3	6.7	7.1	5.8	6.9	6.6
REGENERATE	6.5	6.4	6.9	7.1	5.7	6.8	6.6
HEMI	6.6	6.4	6.7	7.1	5.8	6.7	6.6
SUPERSONIC (PPG-TF-170)	6.7	6.4	6.6	7.1	5.4	7.1	6.6
F711	6.6	6.3	6.6	7.1	5.7	7.2	6.6
PPG-TF-135	6.8	6.3	6.5	7.0	6.0	6.7	6.6
PSG-PO1	6.7	6.3	6.5	7.0	5.9	6.8	6.5
PPG-TF-169	6.1	6.4	6.6	7.2	5.9	7.1	6.5
REBOUNDER (PICK-W43)	7.0	6.4	6.5	7.1	5.5	6.7	6.5
REFLECTION (U45)	6.8	6.2	6.6	7.1	5.6	6.7	6.5
BLACK TAIL (PPG-TF-150)	6.6	6.5	6.5	7.2	5.3	6.8	6.5
PARAMOUNT (PPG-TF-137)	6.4	6.3	6.7	7.1	5.4	6.9	6.5
FIREWALL (PSG-WE1)	6.3	6.4	6.4	7.0	5.9	6.8	6.5
MAESTRO (T31)	6.5	6.3	6.6	7.2	5.8	6.5	6.5
MET-3	6.3	6.3	6.5	7.0	5.7	7.0	6.5
GTO (BURL TF-2)	6.3	6.5	6.4	6.9	5.9	6.7	6.5
BLOODHOUND (MET 6 SEL)	6.4	6.2	6.6	7.0	5.6	6.9	6.5
HOUNDOGS (IS-TF 307 SEL)	6.3	6.1	6.6	7.0	5.7	7.1	6.5
TECHNIQUE (RZ2)	6.4	6.3	6.5	7.0	5.4	7.0	6.4
ROCKWELL (LTP-TWUU)	6.7	6.0	6.4	7.0	5.6	6.9	6.4
VALKYRIE LS (PPG-TF-172)	6.4	6.1	6.5	7.0	5.4	7.2	6.4
CROSSFIRE 4 (IS-TF 310 SEL)	6.8	6.1	6.4	7.0	5.6	6.7	6.4
RHIZING MOON (IS-TF 305 SEL)	6.4	6.4	6.4	7.0	6.0	6.4	6.4
TRINITY (BIZEM)	6.5	6.4	6.6	7.1	5.4	6.6	6.4
GRANDE 3	6.3	6.2	6.3	6.9	6.1	6.5	6.4
IS-TF 311	6.7	6.1	6.4	7.0	5.7	6.4	6.4
ROWDY (SRX-TPC)	6.5	6.2	6.5	6.9	5.4	6.7	6.4
PPG-TF-138	6.4	6.0	6.5	6.9	5.8	6.7	6.4
FAYETTE (IS-TF 291)	6.6	6.0	6.5	7.1	5.2	6.9	6.4
HOT ROD (BURL TF-136)	6.2	6.4	6.5	7.2	5.4	6.7	6.4
SCREAMER LS (PPG-TF-148)	6.4	5.8	6.6	6.9	5.6	6.9	6.4
FAITH	6.4	6.2	6.2	6.9	5.7	6.7	6.4
FESNOVA	6.5	6.2	6.3	6.9	5.6	6.8	6.4
FIRECRACKER SLS (PPG-TF-105)	6.8	6.2	6.6	6.9	5.2	6.5	6.4
STANDOUT (IS-TF 308 SEL)	6.2	6.2	6.5	7.1	5.4	6.8	6.4
TEMPLE (DZ1)	6.0	6.2	6.4	6.9	5.8	6.7	6.3

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN AT SIX LOCATIONS IN THE U.S. 1/
 MAINTAINED USING "SCHEDULE B" *
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CT1	IL1	IN1	KY1	MO1	VA1	MEAN
HOVER (BURL TF-69)	6.3	6.2	6.3	6.9	5.3	6.9	6.3
B23	6.4	6.1	6.8	7.0	5.5	6.3	6.3
LEONARDO (LTP-FSD)	6.4	6.0	6.3	6.8	5.7	6.7	6.3
MICHELANGELO (LTP-F5DPDR)	6.6	6.3	6.4	7.0	5.3	6.3	6.3
WICHITA (PPG-TF-151)	6.6	6.0	6.4	6.8	5.4	6.6	6.3
FIREBIRD 2	6.1	6.1	6.6	7.0	5.3	6.8	6.3
CATALYST	6.1	6.0	6.5	6.8	5.5	6.9	6.3
JS 916	5.7	6.2	6.3	7.0	5.7	6.9	6.3
EMBRACE (PST-5EV2)	6.2	6.0	6.4	6.9	5.4	6.8	6.3
ATF 1754	6.0	6.3	6.3	7.0	5.3	6.8	6.3
DIABLO (IS-TF 330)	6.5	6.2	6.4	6.9	5.6	6.0	6.3
PPG-TF-115	6.5	6.0	6.3	6.9	5.2	6.6	6.3
RHAMBLER 2 SRP (LSD)	6.5	5.7	6.3	6.8	5.6	6.6	6.3
PST-5BRK	6.5	6.0	6.2	6.7	5.2	6.9	6.3
BULLSEYE	6.4	6.1	6.2	6.9	5.7	6.2	6.3
SALTILLO (PST-5SALT)	6.1	6.2	6.3	6.8	5.3	6.9	6.3
ATF 1704	6.3	6.0	6.2	6.8	5.3	6.9	6.3
VERT (ATF 1612)	6.2	6.3	6.4	6.9	5.4	6.4	6.2
K12-MCD	6.5	6.0	6.4	6.7	5.4	6.4	6.2
TURFWAY (IS-TF 282 M2)	6.1	6.1	6.3	6.9	5.2	6.7	6.2
TRENDING (IS-TF 269 SEL)	6.2	6.2	6.6	6.8	5.5	5.9	6.2
XTENDER (PPG-TF-139)	5.9	6.2	6.5	6.9	5.1	6.8	6.2
IS-TF-287	6.5	6.0	6.1	6.9	5.2	6.5	6.2
RAD-TF-89	5.7	6.2	6.3	6.9	5.5	6.6	6.2
PST-5BP0	6.1	6.0	6.3	6.7	5.5	6.5	6.2
PST-5MVD	6.2	6.1	6.4	6.7	5.4	6.4	6.2
FALCON V	6.2	5.9	6.3	6.8	5.2	6.7	6.2
NIGHTCRAWLER (IS-TF 285)	6.3	6.0	6.5	6.9	5.1	6.3	6.2
IS-TF 276 M2	6.0	5.8	6.1	6.8	5.8	6.4	6.2
FOXHOUND (IS-TF 284 M2)	6.4	6.2	6.1	6.8	5.2	6.2	6.2
DYNAMITE LS (PPG-TF-145)	6.1	5.9	6.4	6.8	5.5	6.3	6.2
OLYMPUS (RAD-TF-88)	6.2	6.2	6.3	6.9	5.2	6.2	6.2
ARES (PPG-TF-142)	6.3	5.8	6.2	6.7	5.9	6.1	6.1
REBEL V (ATF 1736)	6.1	6.1	6.2	6.9	5.0	6.6	6.1
KINGDOM (DB1)	6.2	6.3	6.1	7.0	5.0	6.1	6.1
THUNDERSTRUCK (TD1)	6.1	6.2	6.2	6.8	5.3	6.0	6.1
TEMPTATION (OR-21)	5.8	6.0	5.9	6.9	6.0	6.1	6.1
FALCON IV	6.4	5.7	6.2	6.6	5.5	6.0	6.1
UNITUS (IS-TF 289)	6.2	6.1	6.3	6.9	5.0	6.0	6.1
TERRANO	5.9	6.0	6.2	6.6	5.4	6.4	6.1
SWAGGER (PST-5RO5)	6.0	5.5	6.0	6.6	5.5	6.6	6.0
PST-5EX2	6.1	5.7	6.0	6.7	5.3	6.4	6.0
CAESAR (TY 10)	5.8	6.0	6.0	6.7	5.3	6.2	6.0
IS-TF 272	6.0	6.1	6.0	6.9	5.2	5.8	6.0
MERIDIAN (PST-5GRB)	5.5	5.7	6.4	6.7	5.2	6.4	6.0

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT SIX LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE B" *
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CT1	IL1	IN1	KY1	MO1	VA1	MEAN
K12-05	5.8	5.8	6.1	6.7	5.5	6.1	6.0
PSG-TT4	6.0	5.7	6.2	6.6	5.2	6.4	6.0
PST-5DZP	5.9	5.8	6.3	6.6	5.0	6.2	6.0
PSG-GSD	6.3	5.7	6.3	6.6	5.2	5.8	6.0
RAD-TF-92	5.4	5.9	6.2	6.8	5.3	6.2	6.0
MEMPHIS (GO-DFR)	5.7	5.9	6.3	6.7	5.2	5.9	5.9
JS 818	6.1	5.9	6.1	6.7	5.0	5.8	5.9
RAIN DANCE (PST-5SDT)	5.8	5.6	5.9	6.6	5.4	6.2	5.9
RAD-TF-83	5.8	5.9	6.0	6.8	5.2	5.9	5.9
JS 819	5.7	6.0	5.9	6.6	5.3	5.9	5.9
INSPIRATION (PST-R5NW)	5.7	5.5	5.9	6.6	5.4	6.2	5.9
PSG-8BP2	6.1	5.6	6.0	6.5	5.3	5.8	5.9
BAR FA 121095	5.5	5.7	6.0	6.6	5.4	5.6	5.8
JS 809	5.5	5.7	5.9	6.6	5.1	5.8	5.8
BAR FA 121091	5.4	5.9	5.8	6.5	5.1	5.7	5.7
BAR FA 121089	5.5	5.8	5.7	6.5	5.0	5.7	5.7
FRONTLINE (EXP TF-09)	5.5	5.6	5.9	6.6	4.8	5.7	5.7
ANNIHILATOR	5.7	5.6	5.7	6.4	5.0	5.5	5.7
JS 825	5.4	5.5	5.6	6.4	5.0	5.8	5.6
MARAUDER	5.1	5.8	5.7	6.4	5.0	5.7	5.6
COMP. RES. SST	5.3	5.7	5.6	6.5	4.9	5.6	5.6
AQUADUCT	5.2	5.3	5.9	6.3	4.6	6.2	5.6
204 RES. BLK4	5.2	5.5	5.5	6.5	4.9	5.8	5.6
WARHAWK	5.1	5.5	5.5	6.3	4.7	5.6	5.5
K12-13	4.9	5.4	5.8	6.6	4.8	5.2	5.5
BAR FA 120878	5.1	4.7	5.3	5.9	4.7	5.6	5.2
KY-31	3.3	3.2	4.1	4.0	3.6	5.3	3.9
LSD VALUE	0.9	0.7	0.5	0.3	0.8	0.9	0.3
C.V. (%)	8.9	6.9	5.1	3.1	9.7	8.3	7.2

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.

**/ SCHEDULE B (LOW MAINTENANCE) 1. MOWING HEIGHT: 2.5" TO 3.5" 2. NITROGEN RATE: 0 - 0.25 LBS. N/1000 SQ. FT./GROWING MONTH (USE 2-4 APPLICATIONS PER YEAR - NOT MONTHLY APPLICATIONS) 3. IRRIGATION: 50 - 65% POTENTIAL ET; 4. NO FUNGICIDES OR INSECTICIDES USED 5. MINIMUM WEED CONTROL TO PREVENT STAND LOSS

TABLE 4.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FOUR LOCATIONS 1/
IN THE NORTHEAST REGION
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CT1	NJ1	NJ2	PA1	MEAN	NAME	CT1	NJ1	NJ2	PA1	MEAN
REGENERATE	6.5	7.8	6.7	7.9	7.1	FOXHOUND (IS-TF 284 M2)	6.4	6.7	5.4	7.0	6.2
4TH MILLENNIUM SRP (U43)	6.9	7.7	6.1	7.9	7.0	EMBRACE (PST-5EV2)	6.2	7.2	5.2	6.4	6.2
REBOUNDER (PICK-W43)	7.0	7.3	6.1	7.9	6.9	BULLSEYE	6.4	7.1	5.2	6.2	6.2
TITANIUM 2LS (PPG-TF-152)	6.7	7.5	6.1	7.8	6.9	HOVER (BURL TF-69)	6.3	6.7	5.3	6.9	6.2
MET 1	6.5	7.6	6.1	7.8	6.9	IS-TF-287	6.5	6.6	5.3	6.8	6.2
THOR (PPG-TF-157)	7.1	7.2	6.3	6.8	6.9	ATF 1704	6.3	6.8	5.2	7.1	6.2
RAPTOR III (ZW 44)	6.7	7.5	5.8	8.2	6.8	OLYMPUS (RAD-TF-88)	6.2	6.6	5.6	7.0	6.2
AVENGER II (PPG-TF-156)	6.7	7.4	6.2	7.7	6.8	XTENDER (PPG-TF-139)	5.9	6.8	5.5	7.2	6.2
AMITY (CCR2)	6.5	7.5	6.1	8.0	6.8	GRANDE 3	6.3	6.5	5.4	7.1	6.2
TRAVERSE 2 SRP (W45)	6.3	7.8	6.0	8.2	6.8	HOUNDOG8 (IS-TF 307 SEL)	6.3	7.2	4.9	6.6	6.2
REFLECTION (U45)	6.8	7.6	5.8	7.7	6.8	NIGHTCRAWLER (IS-TF 285)	6.3	6.5	5.2	7.1	6.1
BLACK TAIL (PPG-TF-150)	6.6	7.9	5.6	7.1	6.8	MICHELANGELO (LTP-F5DPDR)	6.6	6.6	5.3	5.9	6.1
FIRECRACKER SLS (PPG-TF-105)	6.8	7.3	6.1	6.8	6.7	JS 916	5.7	7.0	5.3	7.4	6.1
ROCKWELL (LTP-TWUU)	6.7	7.3	6.0	7.3	6.7	PPG-TF-138	6.4	6.2	5.3	7.0	6.1
FAYETTE (IS-TF 291)	6.6	7.2	5.9	7.9	6.7	FAITH	6.4	6.2	5.4	6.7	6.1
B23	6.4	7.5	5.9	7.6	6.7	PPG-TF-169	6.1	6.5	5.2	7.4	6.1
HEMI	6.6	7.2	5.6	8.3	6.6	TURFWAY (IS-TF 282 M2)	6.1	6.6	5.4	6.7	6.1
TECHNIQUE (RZ2)	6.4	7.6	5.5	7.8	6.6	FALCON V	6.2	6.6	5.1	7.1	6.1
SUPERSONIC (PPG-TF-170)	6.7	6.9	6.0	7.4	6.6	KINGDOM (DB1)	6.2	6.5	5.3	6.7	6.1
PPG-TF-135	6.8	7.1	5.7	7.3	6.6	RHIZING MOON (IS-TF 305 SEL)	6.4	6.6	4.9	6.9	6.1
F711	6.6	7.6	5.4	7.4	6.6	RAD-TF-92	5.4	7.1	5.3	7.1	6.0
TRINITY (BIZEM)	6.5	7.5	5.5	7.4	6.6	LEONARDO (LTP-FSD)	6.4	6.5	5.3	5.9	6.0
ROWDY (SRX-TPC)	6.5	7.4	5.7	6.7	6.6	MERIDIAN (PST-5GRB)	5.5	7.3	5.1	6.4	6.0
PARAMOUNT (PPG-TF-137)	6.4	7.2	5.8	7.7	6.6	FESNOVA	6.5	6.5	4.9	6.3	6.0
HOT ROD (BURL TF-136)	6.2	7.1	5.8	8.1	6.5	RAD-TF-89	5.7	6.6	5.3	6.4	5.9
STANDOUT (IS-TF 308 SEL)	6.2	7.2	5.6	8.1	6.5	UNITUS (IS-TF 289)	6.2	6.4	5.1	6.3	5.9
IS-TF 311	6.7	7.0	5.6	7.2	6.5	CATALYST	6.1	6.6	4.7	6.2	5.9
CROSSFIRE 4 (IS-TF 310 SEL)	6.8	6.8	5.7	7.0	6.5	ATF 1754	6.0	6.2	5.2	6.6	5.8
W41	6.7	7.1	5.4	7.3	6.5	K12-MCD	6.5	6.0	4.9	6.0	5.8
SCREAMER LS (PPG-TF-148)	6.4	6.9	5.7	7.7	6.5	THUNDERSTRUCK (TD1)	6.1	5.7	5.4	6.2	5.8
VALKYRIE LS (PPG-TF-172)	6.4	7.2	5.7	6.7	6.5	REBEL V (ATF 1736)	6.1	6.2	4.8	6.6	5.8
FIREWALL (PSG-WE1)	6.3	6.8	5.7	7.7	6.4	IS-TF 272	6.0	6.0	4.9	6.7	5.8
RHAMBLER 2 SRP (LSD)	6.5	7.5	5.1	6.8	6.4	ARES (PPG-TF-142)	6.3	6.1	4.5	6.9	5.7
VERT (ATF 1612)	6.2	7.2	5.6	7.1	6.4	K12-05	5.8	6.0	5.3	6.0	5.7
MET-3	6.3	6.9	5.7	7.0	6.4	PPG-TF-115	6.5	5.6	5.0	5.4	5.7
GTO (BURL TF-2)	6.3	7.0	5.7	7.1	6.4	PST-5MVD	6.2	6.0	4.7	6.1	5.7
PSG-PO1	6.7	6.4	5.6	7.8	6.4	SALTILLO (PST-5SALT)	6.1	6.2	4.8	5.7	5.7
MAESTRO (T31)	6.5	6.7	5.6	7.6	6.4	DYNAMITE LS (PPG-TF-145)	6.1	6.0	4.4	6.2	5.6
FIREBIRD 2	6.1	7.3	5.6	6.4	6.3	PST-5BP0	6.1	5.9	4.6	5.4	5.5
BLOODHOUND (MET 6 SEL)	6.4	6.9	5.4	7.1	6.3	IS-TF 276 M2	6.0	5.6	4.7	6.2	5.5
TEMPLE (DZ1)	6.0	7.1	5.7	7.1	6.3	JS 818	6.1	5.9	4.6	5.4	5.5
TRENDING (IS-TF 269 SEL)	6.2	6.7	5.8	7.0	6.3	PST-5BRK	6.5	5.6	4.6	5.1	5.5
WICHITA (PPG-TF-151)	6.6	6.9	5.4	6.3	6.3	PST-5DZP	5.9	6.2	4.5	5.6	5.5
DIABLO (IS-TF 330)	6.5	6.8	5.4	6.7	6.3	RAD-TF-83	5.8	5.5	5.2	5.4	5.5

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT FOUR LOCATIONS 1/
IN THE NORTHEAST REGION
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CT1	NJ1	NJ2	PA1	MEAN
TERRANO	5.9	5.9	4.6	5.2	5.4
PSG-GSD	6.3	5.8	4.1	5.2	5.4
MEMPHIS (GO-DFR)	5.7	6.0	4.5	5.4	5.4
SWAGGER (PST-5R05)	6.0	5.8	4.2	6.0	5.4
CAESAR (TY 10)	5.8	5.8	4.5	5.3	5.4
BAR FA 121095	5.5	5.6	4.8	5.3	5.3
TEMPTATION (OR-21)	5.8	5.5	4.4	5.2	5.2
PSG-8BP2	6.1	5.2	4.3	5.4	5.2
204 RES. BLK4	5.2	6.2	4.2	5.6	5.2
RAIN DANCE (PST-5SDT)	5.8	5.3	4.2	5.4	5.1
FALCON IV	6.4	5.2	3.8	5.0	5.1
PSG-TT4	6.0	4.8	4.3	5.0	5.0
COMP. RES. SST	5.3	5.2	4.4	5.6	5.0
JS 809	5.5	5.4	4.0	5.4	5.0
JS 819	5.7	4.8	4.3	4.8	4.9
PST-5EX2	6.1	4.9	3.6	5.6	4.9
K12-13	4.9	5.5	4.0	5.0	4.8
BAR FA 121089	5.5	4.6	4.3	5.0	4.8
ANNIHILATOR	5.7	4.4	4.0	5.7	4.8
INSPIRATION (PST-R5NW)	5.7	4.8	3.7	4.9	4.8
FRONTLINE (EXP TF-09)	5.5	4.7	3.9	4.7	4.7
MARAUDER	5.1	4.7	4.1	5.0	4.6
BAR FA 121091	5.4	4.6	3.6	4.2	4.5
AQUADUCT	5.2	4.5	3.3	4.8	4.4
JS 825	5.4	4.2	3.4	4.2	4.3
WARHAWK	5.1	3.9	3.6	4.4	4.2
BAR FA 120878	5.1	2.0	2.0	3.0	3.0
KY-31	3.3	1.1	1.2	1.3	1.8
LSD VALUE	0.9	1.1	0.8	1.0	0.5
C.V. (%)	8.9	11.2	9.9	9.2	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.

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 GROWN AT EIGHT LOCATIONS 1/
 IN THE TRANSITION REGION
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	AR1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
TRAVERSE 2 SRP (W45)	7.6	7.2	7.0	6.5	6.4	5.0	7.6	7.0	6.8
4TH MILLENNIUM SRP (U43)	7.6	7.1	7.0	6.0	6.6	4.5	7.8	7.3	6.8
RAPTOR III (ZW 44)	7.3	7.1	7.1	5.9	6.4	4.9	7.7	7.2	6.8
F711	7.9	7.1	6.6	5.7	6.7	5.2	7.8	7.2	6.8
AMITY (CCR2)	7.7	7.2	6.8	5.9	6.3	5.0	7.6	7.3	6.7
MET 1	7.3	7.1	6.7	6.0	6.4	5.0	7.6	7.3	6.7
THOR (PPG-TF-157)	7.5	7.1	6.4	6.2	6.0	5.6	7.8	6.8	6.7
TITANIUM 2LS (PPG-TF-152)	7.4	7.1	6.5	5.9	6.4	5.1	7.7	7.1	6.7
AVENGER II (PPG-TF-156)	7.7	7.1	6.7	5.8	6.2	5.3	7.6	6.9	6.7
TECHNIQUE (RZ2)	7.4	7.0	6.7	5.4	6.6	5.3	7.4	7.0	6.6
MET-3	7.6	7.0	6.5	5.7	6.5	5.1	7.5	7.0	6.6
PPG-TF-135	7.3	7.0	6.6	6.0	6.4	5.0	7.5	6.7	6.6
VALKYRIE LS (PPG-TF-172)	7.1	7.0	6.4	5.4	6.6	5.3	7.5	7.2	6.6
REGENERATE	7.5	7.1	7.3	5.7	6.1	4.3	7.5	6.8	6.6
ROCKWELL (LTP-TWUU)	7.3	7.0	6.6	5.6	6.3	4.8	7.6	6.9	6.6
MAESTRO (T31)	7.5	7.2	6.8	5.8	6.1	5.2	7.5	6.5	6.6
REBOUNDER (PICK-W43)	7.6	7.1	7.0	5.5	5.9	5.0	7.6	6.7	6.6
GTO (BURL TF-2)	6.9	6.9	6.5	5.9	6.3	5.1	7.7	6.7	6.6
PARAMOUNT (PPG-TF-137)	7.4	7.1	6.6	5.4	6.2	5.0	7.6	6.9	6.6
SUPERSONIC (PPG-TF-170)	7.3	7.1	6.7	5.4	5.9	5.0	7.6	7.1	6.6
GRANDE 3	7.5	6.9	6.3	6.1	6.2	5.1	7.6	6.5	6.5
PPG-TF-169	7.3	7.2	6.3	5.9	6.0	4.9	7.4	7.1	6.5
REFLECTION (U45)	7.5	7.1	6.7	5.6	5.9	5.0	7.6	6.7	6.5
ROWDY (SRX-TPC)	7.8	6.9	6.5	5.4	6.2	5.3	7.6	6.7	6.5
HOT ROD (BURL TF-136)	6.9	7.2	6.8	5.4	6.3	4.8	7.5	6.7	6.5
EMBRACE (PST-5EV2)	7.7	6.9	6.2	5.4	6.1	6.0	7.5	6.8	6.5
TRINITY (BIZEM)	7.5	7.1	6.4	5.4	6.3	4.9	7.6	6.6	6.5
BLOODHOUND (MET 6 SEL)	7.5	7.0	6.4	5.6	6.2	4.9	7.4	6.9	6.5
FIREWALL (PSG-WE1)	7.5	7.0	6.5	5.9	5.9	4.7	7.6	6.8	6.5
HOUNDOG8 (IS-TF 307 SEL)	7.3	7.0	6.1	5.7	5.8	5.5	7.6	7.1	6.5
LEONARDO (LTP-FSD)	7.5	6.8	6.2	5.7	6.3	5.3	7.6	6.7	6.5
IS-TF 311	7.4	7.0	6.3	5.7	6.1	5.3	7.5	6.4	6.5
STANDOUT (IS-TF 308 SEL)	7.4	7.1	6.4	5.4	6.2	4.9	7.7	6.8	6.5
PSG-PO1	7.6	7.0	6.6	5.9	5.9	4.6	7.4	6.8	6.5
RHAMBLER 2 SRP (LSD)	7.4	6.8	6.6	5.6	5.9	5.3	7.7	6.6	6.5
BLACK TAIL (PPG-TF-150)	7.4	7.2	6.4	5.3	6.1	5.1	7.5	6.8	6.5
JS 916	7.4	7.0	6.3	5.7	5.8	5.1	7.4	6.9	6.5
W41	6.9	7.1	6.2	5.6	5.8	5.0	7.6	7.0	6.5
WICHITA (PPG-TF-151)	7.0	6.8	6.3	5.4	6.5	5.3	7.6	6.6	6.5
HEMI	7.3	7.1	6.4	5.8	5.8	4.7	7.4	6.7	6.4
CROSSFIRE 4 (IS-TF 310 SEL)	7.1	7.0	6.1	5.6	5.8	5.5	7.6	6.7	6.4
TEMPLE (DZ1)	6.9	6.9	6.4	5.8	5.7	5.0	7.6	6.7	6.4
MICHELANGELO (LTP-F5DPDR)	7.4	7.0	6.1	5.3	6.3	5.3	7.6	6.3	6.4
RHIZING MOON (IS-TF 305 SEL)	7.7	7.0	6.0	6.0	5.6	5.2	7.7	6.4	6.4

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN AT EIGHT LOCATIONS 1/
 IN THE TRANSITION REGION
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	AR1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
FESNOVA	7.7	6.9	6.0	5.6	5.9	5.0	7.6	6.8	6.4
FAITH	7.2	6.9	5.9	5.7	6.0	5.2	7.5	6.7	6.4
FAYETTE (IS-TF 291)	7.7	7.1	6.4	5.2	5.5	5.1	7.7	6.9	6.4
SCREAMER LS (PPG-TF-148)	6.9	6.9	6.2	5.6	6.0	4.6	7.6	6.9	6.4
SALTILLO (PST-5SALT)	7.1	6.8	6.1	5.3	5.9	5.5	7.5	6.9	6.4
PPG-TF-138	7.1	6.9	6.1	5.8	5.8	5.0	7.6	6.7	6.4
FIRECRACKER SLS (PPG-TF-105)	7.1	6.9	6.4	5.2	6.2	5.0	7.7	6.5	6.4
FIREBIRD 2	7.3	7.0	6.4	5.3	5.7	5.0	7.6	6.8	6.4
ATF 1704	7.4	6.8	5.8	5.3	6.3	4.9	7.5	6.9	6.4
PST-5BRK	7.3	6.7	6.1	5.2	5.9	5.3	7.5	6.9	6.4
XTENDER (PPG-TF-139)	7.8	6.9	6.0	5.1	5.9	5.1	7.7	6.8	6.3
TURFWAY (IS-TF 282 M2)	7.9	6.9	5.9	5.2	5.6	5.4	7.7	6.7	6.3
PST-5BP0	7.3	6.7	6.0	5.5	6.1	5.4	7.3	6.5	6.3
DIABLO (IS-TF 330)	7.5	6.9	5.9	5.6	6.0	5.0	7.7	6.0	6.3
ATF 1754	7.4	7.0	6.0	5.3	6.0	4.4	7.4	6.8	6.3
B23	7.3	7.0	6.4	5.5	5.8	4.5	7.6	6.3	6.3
IS-TF 276 M2	6.8	6.8	5.8	5.8	5.9	5.0	7.5	6.4	6.3
PPG-TF-115	7.4	6.9	5.9	5.2	5.6	5.4	7.6	6.6	6.3
VERT (ATF 1612)	7.2	6.9	6.2	5.4	5.8	4.7	7.6	6.4	6.3
CATALYST	7.1	6.8	6.0	5.5	6.1	4.4	7.4	6.9	6.3
TEMPTATION (OR-21)	7.0	6.9	5.5	6.0	5.8	5.5	7.6	6.1	6.3
TERRANO	7.3	6.6	5.8	5.4	6.0	5.8	7.6	6.4	6.3
PST-5EX2	7.2	6.7	5.6	5.3	6.3	5.4	7.3	6.4	6.3
BULLSEYE	7.5	6.9	6.0	5.7	5.5	4.8	7.5	6.2	6.2
K12-MCD	7.5	6.7	5.6	5.4	5.8	5.6	7.4	6.4	6.2
IS-TF-287	7.7	6.9	5.8	5.2	5.5	5.0	7.5	6.5	6.2
FOXHOUND (IS-TF 284 M2)	7.2	6.8	6.0	5.2	5.6	5.3	7.7	6.2	6.2
TRENDING (IS-TF 269 SEL)	6.9	6.8	6.1	5.5	5.7	4.9	7.7	5.9	6.2
CAESAR (TY 10)	7.4	6.7	5.8	5.3	5.8	5.1	7.6	6.2	6.2
MERIDIAN (PST-5GRB)	7.3	6.7	5.7	5.2	5.8	5.4	7.5	6.4	6.2
SWAGGER (PST-5RO5)	7.4	6.6	5.5	5.5	5.6	5.4	7.5	6.6	6.2
REBEL V (ATF 1736)	7.5	6.9	5.9	5.0	5.6	5.0	7.4	6.6	6.2
HOVER (BURL TF-69)	6.4	6.9	6.1	5.3	5.6	3.9	7.4	6.9	6.2
PST-5MVD	7.4	6.7	5.7	5.4	5.7	5.1	7.3	6.4	6.2
RAD-TF-89	6.7	6.9	6.0	5.5	5.7	4.1	7.3	6.6	6.2
FALCON V	7.1	6.8	5.7	5.2	5.8	4.7	7.3	6.7	6.1
NIGHTCRAWLER (IS-TF 285)	7.2	6.9	5.9	5.1	5.5	4.6	7.6	6.3	6.1
THUNDERSTRUCK (TD1)	7.2	6.8	5.6	5.3	5.6	4.9	7.6	6.0	6.1
DYNAMITE LS (PPG-TF-145)	7.6	6.8	5.4	5.5	5.2	4.9	7.6	6.3	6.1
KINGDOM (DB1)	6.7	7.0	5.9	5.0	5.9	4.2	7.5	6.1	6.1
UNITUS (IS-TF 289)	7.2	6.9	5.8	5.0	5.6	5.1	7.5	6.0	6.1
IS-TF 272	7.2	6.9	5.9	5.2	5.3	5.0	7.6	5.8	6.1
K12-05	6.8	6.7	5.6	5.5	5.4	4.9	7.5	6.1	6.1
ARES (PPG-TF-142)	7.1	6.7	5.2	5.9	5.2	5.2	7.6	6.1	6.1
RAIN DANCE (PST-5SDT)	6.4	6.6	4.9	5.4	6.1	5.6	7.2	6.2	6.0

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN AT EIGHT LOCATIONS 1/
 IN THE TRANSITION REGION
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	AR1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
PSG-TT4	6.9	6.6	5.4	5.2	5.7	4.8	7.3	6.4	6.0
MEMPHIS (GO-DFR)	6.8	6.7	5.4	5.2	5.5	5.1	7.5	5.9	6.0
RAD-TF-92	7.1	6.8	5.7	5.3	5.5	3.7	7.4	6.2	6.0
INSPIRATION (PST-R5NW)	6.9	6.6	4.9	5.4	5.5	5.3	7.3	6.2	6.0
FALCON IV	7.1	6.6	5.2	5.5	5.2	5.1	7.3	6.0	6.0
OLYMPUS (RAD-TF-88)	6.7	6.9	5.7	5.2	5.4	3.3	7.5	6.2	5.9
PSG-GSD	7.2	6.6	5.0	5.2	5.7	5.2	7.4	5.8	5.9
PST-5DZP	6.8	6.6	5.4	5.0	5.2	5.1	7.3	6.2	5.9
JS 818	6.3	6.7	5.6	5.0	5.3	4.9	7.3	5.8	5.9
BAR FA 121089	7.1	6.5	5.2	5.0	5.4	5.0	7.3	5.7	5.8
PSG-8BP2	6.9	6.5	5.0	5.3	5.2	5.4	7.2	5.8	5.8
JS 819	6.5	6.6	5.0	5.3	5.3	4.9	7.2	5.9	5.8
FRONTLINE (EXP TF-09)	7.1	6.6	4.9	4.8	5.4	5.3	7.4	5.7	5.8
AQUADUCT	6.5	6.3	4.9	4.6	5.7	5.4	7.2	6.2	5.8
RAD-TF-83	6.7	6.8	5.2	5.2	5.2	3.9	7.2	5.9	5.8
BAR FA 121095	7.1	6.6	5.1	5.4	4.9	4.8	7.3	5.6	5.8
BAR FA 121091	6.6	6.5	5.2	5.1	5.2	4.6	7.2	5.7	5.8
JS 809	5.8	6.6	5.2	5.1	5.3	4.7	7.2	5.8	5.8
JS 825	6.9	6.4	4.8	5.0	5.2	5.0	7.2	5.8	5.7
204 RES. BLK4	6.3	6.5	4.9	4.9	5.1	3.8	7.7	5.8	5.7
K12-13	7.0	6.6	5.1	4.8	4.9	4.5	7.3	5.2	5.7
ANNIHILATOR	7.1	6.4	4.4	5.0	5.1	3.9	7.4	5.5	5.6
COMP. RES. SST	6.5	6.5	4.9	4.9	5.1	3.1	7.4	5.6	5.5
WARHAWK	6.9	6.3	4.1	4.7	5.1	4.7	7.5	5.6	5.5
MARAUDER	6.8	6.4	4.4	5.0	4.9	3.4	7.4	5.7	5.5
BAR FA 120878	6.5	5.9	3.7	4.7	4.9	5.1	7.0	5.6	5.3
KY-31	5.0	4.0	2.8	3.6	4.3	5.0	6.1	5.3	4.4
LSD VALUE	0.7	0.3	0.7	0.8	0.9	0.8	0.4	0.9	0.3
C.V. (%)	6.5	3.1	7.2	9.7	9.6	10.1	3.1	8.3	7.1

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 6.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWO LOCATIONS 1/
IN THE SOUTHEAST REGION
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	GA1	MS1	MEAN	NAME	GA1	MS1	MEAN
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	6.4	6.0	THOR (PPG-TF-157)	5.3	6.2	5.8
TITANIUM 2LS (PPG-TF-152)	5.9	6.1	6.0	TEMPLE (DZ1)	5.3	6.3	5.8
MET 1	5.7	6.2	6.0	PSG-PO1	5.4	6.1	5.8
GTO (BURL TF-2)	5.8	6.1	6.0	K12-MCD	5.3	6.2	5.8
SUPERSONIC (PPG-TF-170)	5.7	6.2	5.9	XTENDER (PPG-TF-139)	5.4	6.1	5.8
TURFWAY (IS-TF 282 M2)	5.5	6.4	5.9	AMITY (CCR2)	5.3	6.2	5.7
PPG-TF-169	5.7	6.2	5.9	VERT (ATF 1612)	5.3	6.2	5.7
AVENGER II (PPG-TF-156)	5.7	6.2	5.9	IS-TF 311	5.4	6.0	5.7
WICHITA (PPG-TF-151)	5.6	6.2	5.9	BAR FA 121095	5.4	6.1	5.7
MICHELANGELO (LTP-F5DPDR)	5.5	6.3	5.9	ROCKWELL (LTP-TWUU)	5.3	6.2	5.7
PARAMOUNT (PPG-TF-137)	5.6	6.2	5.9	OLYMPUS (RAD-TF-88)	5.5	6.0	5.7
ATF 1704	5.7	6.1	5.9	KINGDOM (DB1)	5.3	6.2	5.7
FIREBIRD 2	5.5	6.3	5.9	REBOUNDER (PICK-W43)	5.3	6.2	5.7
ATF 1754	5.6	6.1	5.9	PPG-TF-115	5.4	6.1	5.7
LEONARDO (LTP-FSD)	5.4	6.3	5.9	PST-5BRK	5.6	5.9	5.7
PPG-TF-135	5.6	6.2	5.9	RAIN DANCE (PST-5SDT)	5.4	6.0	5.7
RAPTOR III (ZW 44)	5.5	6.3	5.9	CAESAR (TY 10)	5.3	6.1	5.7
K12-05	5.5	6.2	5.9	PST-5MVD	5.4	6.0	5.7
TRINITY (BIZEM)	5.6	6.1	5.9	THUNDERSTRUCK (TD1)	5.3	6.1	5.7
EMBRACE (PST-5EV2)	5.7	6.1	5.9	MERIDIAN (PST-5GRB)	5.2	6.2	5.7
REBEL V (ATF 1736)	5.6	6.1	5.9	RAD-TF-89	5.3	6.1	5.7
REFLECTION (U45)	5.6	6.1	5.9	SCREAMER LS (PPG-TF-148)	5.2	6.1	5.7
PST-5BP0	5.7	6.0	5.8	HOUNDOG8 (IS-TF 307 SEL)	5.3	6.0	5.7
FAITH	5.5	6.2	5.8	IS-TF 276 M2	5.4	6.0	5.7
RHIZING MOON (IS-TF 305 SEL)	5.6	6.1	5.8	RAD-TF-92	5.1	6.2	5.7
FOXHOUND (IS-TF 284 M2)	5.3	6.3	5.8	MEMPHIS (GO-DFR)	5.3	6.0	5.6
HEMI	5.6	6.0	5.8	IS-TF 272	5.1	6.2	5.6
TRAVERSE 2 SRP (W45)	5.5	6.1	5.8	FIREWALL (PSG-WE1)	5.1	6.1	5.6
UNITUS (IS-TF 289)	5.6	6.0	5.8	FIRECRACKER SLS (PPG-TF-105)	5.2	6.1	5.6
VALKYRIE LS (PPG-TF-172)	5.4	6.3	5.8	ROWDY (SRX-TPC)	5.2	6.1	5.6
PST-5EX2	5.5	6.1	5.8	FESNOVA	5.1	6.1	5.6
MET-3	5.4	6.2	5.8	PPG-TF-138	5.3	5.9	5.6
TRENDING (IS-TF 269 SEL)	5.3	6.3	5.8	SALTILLO (PST-5SALT)	5.1	6.0	5.6
BLACK TAIL (PPG-TF-150)	5.4	6.2	5.8	BLOODHOUND (MET 6 SEL)	5.2	5.9	5.6
REGENERATE	5.4	6.2	5.8	DYNAMITE LS (PPG-TF-145)	5.4	5.8	5.6
FAYETTE (IS-TF 291)	5.3	6.2	5.8	K12-13	5.4	5.8	5.6
W41	5.4	6.2	5.8	DIABLO (IS-TF 330)	5.2	6.0	5.6
STANDOUT (IS-TF 308 SEL)	5.5	6.0	5.8	PSG-GSD	5.2	6.0	5.6
4TH MILLENNIUM SRP (U43)	5.4	6.2	5.8	HOVER (BURL TF-69)	4.9	6.2	5.6
GRANDE 3	5.4	6.2	5.8	NIGHTCRAWLER (IS-TF 285)	5.4	5.7	5.6
JS 916	5.3	6.3	5.8	TERRANO	5.2	5.9	5.6
MAESTRO (T31)	5.3	6.2	5.8	RAD-TF-83	4.9	6.2	5.5
TECHNIQUE (RZ2)	5.2	6.3	5.8	INSPIRATION (PST-R5NW)	5.1	6.0	5.5
F711	5.4	6.1	5.8	PSG-TT4	5.1	6.0	5.5

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN AT TWO LOCATIONS 1/
 IN THE SOUTHEAST REGION
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	GA1	MS1	MEAN
IS-TF-287	5.2	5.9	5.5
HOT ROD (BURL TF-136)	5.0	6.0	5.5
PST-5DZP	5.2	5.8	5.5
JS 809	5.2	5.8	5.5
204 RES. BLK4	5.1	5.9	5.5
FALCON V	5.4	5.6	5.5
ARES (PPG-TF-142)	5.1	5.8	5.5
BAR FA 121089	5.0	5.9	5.5
COMP. RES. SST	5.1	5.8	5.5
BULLSEYE	5.0	5.9	5.5
SWAGGER (PST-5R05)	5.1	5.9	5.5
JS 825	5.0	5.9	5.5
JS 819	5.1	5.8	5.4
PSG-8BP2	5.0	5.9	5.4
FALCON IV	4.9	5.9	5.4
B23	4.9	5.9	5.4
RHAMBLER 2 SRP (LSD)	5.1	5.6	5.4
WARHAWK	4.8	5.9	5.4
BAR FA 121091	4.8	5.9	5.3
ANNIHILATOR	4.8	5.8	5.3
TEMPTATION (OR-21)	4.8	5.8	5.3
FRONTLINE (EXP TF-09)	4.6	5.9	5.3
MARAUDER	4.7	5.8	5.2
CATALYST	4.6	5.9	5.2
BAR FA 120878	4.9	5.4	5.1
AQUADUCT	4.4	5.8	5.1
JS 818	4.4	5.9	5.1
KY-31	4.2	4.4	4.3
LSD VALUE	0.9	0.5	0.5
C.V. (%)	11.0	4.8	8.2

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 7.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FOUR LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/											
NAME	IA1	IL1	IN1	NE1	MEAN	NAME	IA1	IL1	IN1	NE1	MEAN
REGENERATE	7.4	6.4	6.9	5.6	6.6	RHIZING MOON (IS-TF 305 SEL)	6.7	6.4	6.4	5.4	6.2
4TH MILLENNIUM SRP (U43)	7.0	6.2	7.0	5.6	6.4	HOUNDOG8 (IS-TF 307 SEL)	6.8	6.1	6.6	5.4	6.2
RAPTOR III (ZW 44)	7.1	6.4	6.6	5.7	6.4	FAITH	6.9	6.2	6.2	5.6	6.2
W41	7.1	6.6	6.6	5.5	6.4	VALKYRIE LS (PPG-TF-172)	6.7	6.1	6.5	5.6	6.2
MET 1	7.1	6.4	6.6	5.6	6.4	RAD-TF-89	7.0	6.2	6.3	5.4	6.2
AMITY (CCR2)	7.0	6.5	6.7	5.6	6.4	FIREBIRD 2	6.7	6.1	6.6	5.3	6.2
REBOUNDER (PICK-W43)	7.1	6.4	6.5	5.7	6.4	JS 916	6.7	6.2	6.3	5.6	6.2
TRINITY (BIZEM)	7.1	6.4	6.6	5.6	6.4	PPG-TF-138	6.8	6.0	6.5	5.4	6.2
TRAVERSE 2 SRP (W45)	7.1	6.3	6.6	5.7	6.4	FESNOVA	7.0	6.2	6.3	5.3	6.2
REFLECTION (U45)	7.1	6.2	6.6	5.7	6.4	WICHITA (PPG-TF-151)	6.8	6.0	6.4	5.4	6.2
FIRECRACKER SLS (PPG-TF-105)	7.2	6.2	6.6	5.5	6.4	FOXHOUND (IS-TF 284 M2)	6.9	6.2	6.1	5.4	6.2
B23	7.1	6.1	6.8	5.6	6.4	LEONARDO (LTP-FSD)	6.9	6.0	6.3	5.5	6.2
PARAMOUNT (PPG-TF-137)	6.9	6.3	6.7	5.5	6.4	FALCON V	6.9	5.9	6.3	5.6	6.2
HEMI	6.8	6.4	6.7	5.5	6.4	KINGDOM (DB1)	6.9	6.3	6.1	5.4	6.2
TECHNIQUE (RZ2)	7.0	6.3	6.5	5.6	6.4	BULLSEYE	6.9	6.1	6.2	5.4	6.2
AVENGER II (PPG-TF-156)	6.6	6.3	6.7	5.8	6.4	GRANDE 3	6.6	6.2	6.3	5.5	6.2
BLACK TAIL (PPG-TF-150)	6.9	6.5	6.5	5.5	6.4	PST-5BRK	7.0	6.0	6.2	5.4	6.2
HOT ROD (BURL TF-136)	7.0	6.4	6.5	5.5	6.3	EMBRACE (PST-5EV2)	6.9	6.0	6.4	5.3	6.1
PPG-TF-135	7.1	6.3	6.5	5.5	6.3	SALTILLO (PST-5SALT)	6.8	6.2	6.3	5.3	6.1
TRENDING (IS-TF 269 SEL)	7.0	6.2	6.6	5.5	6.3	K12-MCD	6.8	6.0	6.4	5.4	6.1
GTO (BURL TF-2)	7.0	6.5	6.4	5.5	6.3	PST-5BP0	6.8	6.0	6.3	5.4	6.1
F711	7.0	6.3	6.6	5.4	6.3	HOVER (BURL TF-69)	6.4	6.2	6.3	5.6	6.1
THOR (PPG-TF-157)	7.1	6.0	6.6	5.6	6.3	PST-5MVD	6.6	6.1	6.4	5.4	6.1
BLOODHOUND (MET 6 SEL)	6.7	6.2	6.6	5.7	6.3	SCREAMER LS (PPG-TF-148)	6.6	5.8	6.6	5.5	6.1
FAYETTE (IS-TF 291)	7.1	6.0	6.5	5.5	6.3	RAD-TF-92	6.7	5.9	6.2	5.6	6.1
PPG-TF-169	6.8	6.4	6.6	5.5	6.3	IS-TF 311	6.5	6.1	6.4	5.4	6.1
PSG-PO1	6.9	6.3	6.5	5.5	6.3	NIGHTCRAWLER (IS-TF 285)	6.6	6.0	6.5	5.4	6.1
SUPERSONIC (PPG-TF-170)	6.5	6.4	6.6	5.6	6.3	MERIDIAN (PST-5GRB)	6.7	5.7	6.4	5.6	6.1
ROWDY (SRX-TPC)	6.8	6.2	6.5	5.7	6.3	IS-TF 272	6.9	6.1	6.0	5.3	6.1
TITANIUM 2LS (PPG-TF-152)	6.6	6.4	6.6	5.5	6.3	OLYMPUS (RAD-TF-88)	6.4	6.2	6.3	5.4	6.1
CATALYST	7.1	6.0	6.5	5.5	6.3	DYNAMITE LS (PPG-TF-145)	6.8	5.9	6.4	5.2	6.1
TEMPLE (DZ1)	7.0	6.2	6.4	5.5	6.3	RHAMBLER 2 SRP (LSD)	6.9	5.7	6.3	5.5	6.1
MET-3	6.8	6.3	6.5	5.5	6.3	IS-TF 276 M2	7.1	5.8	6.1	5.4	6.1
DIABLO (IS-TF 330)	6.9	6.2	6.4	5.6	6.3	PPG-TF-115	6.6	6.0	6.3	5.4	6.1
XTENDER (PPG-TF-139)	6.9	6.2	6.5	5.5	6.3	REBEL V (ATF 1736)	6.6	6.1	6.2	5.3	6.1
MICHELANGELO (LTP-F5DPDR)	6.8	6.3	6.4	5.5	6.3	TURFWAY (IS-TF 282 M2)	6.6	6.1	6.3	5.3	6.1
VERT (ATF 1612)	6.9	6.3	6.4	5.5	6.3	CROSSFIRE 4 (IS-TF 310 SEL)	6.3	6.1	6.4	5.5	6.0
ROCKWELL (LTP-TWUU)	7.0	6.0	6.4	5.7	6.3	CAESAR (TY 10)	6.8	6.0	6.0	5.2	6.0
FIREWALL (PSG-WE1)	6.5	6.4	6.4	5.7	6.3	TERRANO	6.8	6.0	6.2	5.3	6.0
THUNDERSTRUCK (TD1)	7.1	6.2	6.2	5.5	6.3	TEMPTATION (OR-21)	6.9	6.0	5.9	5.4	6.0
ATF 1754	6.9	6.3	6.3	5.5	6.2	JS 818	6.9	5.9	6.1	5.2	6.0
STANDOUT (IS-TF 308 SEL)	6.6	6.2	6.5	5.6	6.2	MEMPHIS (GO-DFR)	6.8	5.9	6.3	5.2	6.0
MAESTRO (T31)	6.5	6.3	6.6	5.6	6.2	ATF 1704	6.4	6.0	6.2	5.4	6.0
UNITUS (IS-TF 289)	7.2	6.1	6.3	5.3	6.2	PSG-GSD	6.7	5.7	6.3	5.3	6.0

TABLE 7. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN AT FOUR LOCATIONS 1/
 IN THE NORTH CENTRAL REGION
 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL1	IN1	NE1	MEAN
ARES (PPG-TF-142)	6.7	5.8	6.2	5.3	6.0
FALCON IV	6.8	5.7	6.2	5.4	6.0
IS-TF-287	6.4	6.0	6.1	5.4	6.0
PST-5DZP	6.4	5.8	6.3	5.3	6.0
K12-05	6.6	5.8	6.1	5.3	5.9
JS 819	6.5	6.0	5.9	5.2	5.9
RAD-TF-83	6.6	5.9	6.0	5.2	5.9
PST-5EX2	6.5	5.7	6.0	5.3	5.9
INSPIRATION (PST-R5NW)	6.7	5.5	5.9	5.3	5.9
FRONTLINE (EXP TF-09)	6.9	5.6	5.9	5.2	5.9
BAR FA 121095	6.5	5.7	6.0	5.3	5.9
JS 809	6.7	5.7	5.9	5.2	5.8
RAIN DANCE (PST-5SDT)	6.7	5.6	5.9	5.1	5.8
SWAGGER (PST-5RO5)	6.5	5.5	6.0	5.3	5.8
PSG-TT4	6.3	5.7	6.2	5.1	5.8
PSG-8BP2	6.4	5.6	6.0	5.1	5.8
BAR FA 121091	6.3	5.9	5.8	5.1	5.7
BAR FA 121089	6.3	5.8	5.7	5.0	5.7
COMP. RES. SST	6.3	5.7	5.6	5.1	5.7
JS 825	6.6	5.5	5.6	5.0	5.7
MARAUDER	6.0	5.8	5.7	5.0	5.6
AQUADUCT	6.1	5.3	5.9	5.1	5.6
K12-13	6.3	5.4	5.8	5.0	5.6
WARHAWK	6.3	5.5	5.5	5.0	5.6
ANNIHILATOR	6.0	5.6	5.7	5.0	5.6
204 RES. BLK4	6.1	5.5	5.5	5.1	5.6
BAR FA 120878	5.9	4.7	5.3	4.6	5.1
KY-31	4.7	3.2	4.1	3.5	3.9
LSD VALUE	0.8	0.7	0.5	0.4	0.3
C.V. (%)	7.0	6.9	5.1	4.9	6.2

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 8.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT LOGAN, UT (UPPER WEST/MOUNTAIN REGION) 1/
2013 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/

NAME	AUG	SEP	OCT	MEAN	NAME	AUG	SEP	OCT	MEAN
RAPTOR III (ZW 44)	7.7	8.0	6.7	7.4	MET 1	7.3	6.0	6.0	6.4
REGENERATE	8.0	7.0	7.0	7.3	RAD-TF-83	6.0	6.3	7.0	6.4
CROSSFIRE 4 (IS-TF 310 SEL)	7.7	7.3	6.7	7.2	RAD-TF-89	5.7	7.0	6.7	6.4
TRINITY (BIZEM)	7.7	6.3	7.7	7.2	TRAVERSE 2 SRP (W45)	6.7	6.0	6.7	6.4
IS-TF 272	8.0	7.0	6.7	7.2	ANNIHILATOR	7.0	5.7	6.7	6.4
KINGDOM (DB1)	7.3	7.0	7.3	7.2	COMP. RES. SST	7.3	5.0	7.0	6.4
AMITY (CCR2)	7.7	6.3	7.3	7.1	FALCON V	7.0	6.3	6.0	6.4
UNITUS (IS-TF 289)	7.7	6.7	7.0	7.1	FOXHOUND (IS-TF 284 M2)	6.3	6.3	6.7	6.4
TURFWAY (IS-TF 282 M2)	7.7	6.7	6.7	7.0	HEMI	7.0	6.0	6.3	6.4
CAESAR (TY 10)	7.3	6.3	7.0	6.9	IS-TF 311	6.7	6.0	6.7	6.4
PARAMOUNT (PPG-TF-137)	7.3	6.7	6.7	6.9	K12-05	6.7	5.7	7.0	6.4
THOR (PPG-TF-157)	7.0	6.7	7.0	6.9	PSG-PO1	6.7	6.0	6.7	6.4
AVENGER II (PPG-TF-156)	7.3	6.7	6.7	6.9	STANDOUT (IS-TF 308 SEL)	6.7	5.7	7.0	6.4
PPG-TF-138	7.7	6.0	7.0	6.9	SWAGGER (PST-5R05)	7.0	5.7	6.7	6.4
REFLECTION (U45)	6.7	6.7	7.0	6.8	TRENDING (IS-TF 269 SEL)	6.3	6.7	6.3	6.4
FESNOVA	7.3	6.3	6.7	6.8	WICHITA (PPG-TF-151)	6.7	6.0	6.7	6.4
IS-TF-287	7.3	6.3	6.7	6.8	GRANDE 3	6.3	5.7	7.0	6.3
ROWDY (SRX-TPC)	7.7	6.3	6.3	6.8	GTO (BURL TF-2)	6.3	6.0	6.7	6.3
TEMPTATION (OR-21)	6.7	6.7	7.0	6.8	K12-13	6.3	6.3	6.3	6.3
BAR FA 121095	7.3	6.0	6.7	6.7	K12-MCD	6.7	6.0	6.3	6.3
CATALYST	7.0	6.0	7.0	6.7	RHIZING MOON (IS-TF 305 SEL)	6.0	6.3	6.7	6.3
DIABLO (IS-TF 330)	6.7	6.7	6.7	6.7	SALTILLO (PST-5SALT)	6.7	5.3	7.0	6.3
F711	6.3	6.3	7.3	6.7	VERT (ATF 1612)	6.7	5.7	6.7	6.3
FAITH	6.7	6.3	7.0	6.7	B23	6.3	6.0	6.3	6.2
FIREBIRD 2	6.7	6.3	7.0	6.7	JS 916	6.3	6.0	6.3	6.2
HOT ROD (BURL TF-136)	7.3	6.3	6.3	6.7	MET-3	6.7	6.0	6.0	6.2
HOUND08 (IS-TF 307 SEL)	6.3	6.7	7.0	6.7	MICHELANGELO (LTP-F5DPDR)	6.7	5.0	7.0	6.2
NIGHTCRAWLER (IS-TF 285)	6.7	6.0	7.3	6.7	REBEL V (ATF 1736)	6.3	5.7	6.7	6.2
REBOUNDER (PICK-W43)	6.7	6.3	7.0	6.7	ROCKWELL (LTP-TWUU)	6.7	5.3	6.7	6.2
W41	7.3	6.3	6.3	6.7	TERRANO	6.3	5.3	7.0	6.2
4TH MILLENNIUM SRP (U43)	6.7	6.0	7.0	6.6	VALKYRIE LS (PPG-TF-172)	6.7	5.7	6.3	6.2
FIREWALL (PSG-WE1)	7.0	6.0	6.7	6.6	PSG-8BP2	6.3	6.3	6.0	6.2
MEMPHIS (GO-DFR)	7.0	6.7	6.0	6.6	ATF 1754	6.3	5.7	6.3	6.1
RHAMBLER 2 SRP (LSD)	6.7	6.3	6.7	6.6	FAYETTE (IS-TF 291)	6.0	6.0	6.3	6.1
WARHAWK	7.3	5.7	6.7	6.6	JS 819	6.0	6.3	6.0	6.1
204 RES. BLK4	7.0	5.3	7.3	6.6	LEONARDO (LTP-FSD)	7.3	5.3	5.7	6.1
FIRECRACKER SLS (PPG-TF-105)	7.7	6.0	6.0	6.6	PPG-TF-115	7.0	5.3	6.0	6.1
PST-5DZP	7.3	6.0	6.3	6.6	PPG-TF-135	6.7	5.7	6.0	6.1
RAD-TF-92	7.0	6.0	6.7	6.6	PST-5BRK	6.0	5.7	6.7	6.1
SCREAMER LS (PPG-TF-148)	7.3	5.7	6.7	6.6	SUPERSONIC (PPG-TF-170)	6.7	5.3	6.3	6.1
TEMPLE (DZ1)	6.7	6.3	6.7	6.6	THUNDERSTRUCK (TD1)	6.7	6.0	5.7	6.1
BULLSEYE	7.0	6.0	6.3	6.4	TITANIUM 2LS (PPG-TF-152)	6.3	5.7	6.3	6.1
DYNAMITE LS (PPG-TF-145)	6.7	6.0	6.7	6.4	FALCON IV	6.7	5.3	6.0	6.0
JS 818	7.7	5.7	6.0	6.4	INSPIRATION (PST-R5NW)	6.7	5.3	6.0	6.0

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT LOGAN, UT (UPPER WEST/MOUNTAIN REGION) 1/
2013 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/

NAME	AUG	SEP	OCT	MEAN
IS-TF 276 M2	6.3	5.7	6.0	6.0
MERIDIAN (PST-5GRB)	6.7	5.3	6.0	6.0
TECHNIQUE (RZ2)	6.7	5.0	6.3	6.0
ARES (PPG-TF-142)	6.3	5.7	5.7	5.9
ATF 1704	5.7	5.0	7.0	5.9
BLACK TAIL (PPG-TF-150)	5.7	5.3	6.7	5.9
MAESTRO (T31)	5.3	6.0	6.3	5.9
RAIN DANCE (PST-5SDT)	6.3	5.3	6.0	5.9
XTENDER (PPG-TF-139)	6.7	5.3	5.7	5.9
BAR FA 121091	6.0	5.7	6.0	5.9
JS 809	6.7	5.7	5.3	5.9
MARAUDER	7.0	4.7	6.0	5.9
PST-5EX2	7.0	4.7	6.0	5.9
PST-5MVD	6.0	5.0	6.7	5.9
BAR FA 121089	5.7	5.3	6.3	5.8
FRONTLINE (EXP TF-09)	5.7	6.0	5.7	5.8
PSG-TT4	5.3	5.7	6.3	5.8
BLOODHOUND (MET 6 SEL)	6.3	4.7	6.0	5.7
HOVER (BURL TF-69)	5.0	5.7	6.3	5.7
JS 825	6.0	5.7	5.3	5.7
PPG-TF-169	5.7	5.0	6.3	5.7
AQUADUCT	6.3	4.7	5.7	5.6
PST-5BP0	5.7	4.7	6.3	5.6
OLYMPUS (RAD-TF-88)	5.0	5.3	6.0	5.4
EMBRACE (PST-5EV2)	5.7	4.7	5.7	5.3
PSG-GSD	5.0	5.0	5.7	5.2
BAR FA 120878	5.0	3.7	5.3	4.7
KY-31	2.3	1.3	3.0	2.2
LSD VALUE	1.3	1.2	1.5	0.9
C.V. (%)	12.4	13.3	14.1	9.2

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 9.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
2013-17 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/ (Upper												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
4TH MILLENNIUM SRP (U43)	6.5	6.9	6.6	6.5	6.7	7.3	7.1	7.4	7.3	7.5	7.7	7.3	7.1
REGENERATE	6.5	6.9	6.4	6.3	6.8	6.9	6.8	6.9	6.8	7.3	7.3	7.0	6.8
TECHNIQUE (RZ2)	6.5	6.8	6.4	6.7	6.5	6.8	7.0	6.9	6.8	6.8	7.2	6.9	6.8
IS-TF 311	6.8	6.9	6.7	6.6	6.7	6.3	6.9	6.7	6.8	6.8	7.1	6.8	6.7
MAESTRO (T31)	7.3	7.3	6.7	6.6	6.1	6.3	6.8	6.3	6.8	7.2	6.9	6.6	6.7
PSG-PO1	6.4	7.3	6.5	6.4	6.6	6.8	6.8	6.5	6.6	7.0	7.0	6.8	6.7
SCREAMER LS (PPG-TF-148)	6.8	7.2	6.5	6.5	6.7	6.3	6.5	6.4	6.8	6.8	7.1	7.0	6.7
BLACK TAIL (PPG-TF-150)	6.4	6.8	6.3	6.2	6.8	6.4	6.8	6.6	6.8	6.8	6.9	6.9	6.6
FALCON V	6.8	6.9	6.0	5.8	6.7	6.5	6.7	6.7	6.8	6.8	6.9	6.8	6.6
TERRANO	6.4	6.8	6.3	6.3	6.1	6.3	6.5	7.1	6.9	7.1	6.9	6.8	6.6
AMITY (CCR2)	6.3	6.6	6.2	6.5	6.3	6.3	6.9	6.4	7.1	6.5	6.8	6.8	6.6
TEMPLE (DZ1)	6.6	6.3	6.2	6.6	6.4	6.4	6.3	6.5	6.4	6.8	7.0	7.1	6.5
MET 1	6.4	7.0	6.3	6.0	6.3	6.3	6.6	6.5	6.5	6.9	6.6	6.6	6.5
MET-3	6.4	6.7	6.5	6.5	6.8	6.7	6.9	6.4	6.6	6.3	6.3	6.1	6.5
ROCKWELL (LTP-TWUU)	6.4	7.0	6.5	6.3	6.1	6.4	6.3	6.4	6.6	6.6	6.8	6.4	6.5
VERT (ATF 1612)	6.3	6.8	6.2	6.0	6.1	6.3	6.6	6.7	6.6	6.9	6.7	6.8	6.5
GTO (BURL TF-2)	6.5	6.7	6.1	6.3	5.9	6.3	6.7	6.3	6.8	6.7	6.8	6.8	6.5
HOVER (BURL TF-69)	6.3	6.5	5.8	5.8	6.6	6.3	6.5	6.6	6.8	6.8	7.1	6.8	6.5
HOT ROD (BURL TF-136)	6.4	6.5	6.3	6.3	6.7	6.8	6.8	6.6	6.3	6.6	6.1	6.3	6.5
204 RES. BLK4	6.6	6.3	5.8	6.0	6.2	6.5	6.7	6.4	6.6	6.8	6.8	6.8	6.4
W41	6.3	6.3	6.1	6.2	6.3	6.1	6.8	6.5	6.5	6.9	6.8	6.6	6.4
SUPERSONIC (PPG-TF-170)	6.6	6.6	6.3	6.3	6.0	6.1	6.3	6.3	6.4	6.6	7.1	6.7	6.4
FALCON IV	6.2	6.8	5.9	6.1	6.3	5.9	6.4	6.3	6.6	6.6	7.0	7.0	6.4
OLYMPUS (RAD-TF-88)	6.3	6.8	6.3	6.2	6.5	6.3	6.8	6.8	6.5	6.4	6.3	6.0	6.4
TITANIUM 2LS (PPG-TF-152)	6.6	7.3	6.4	6.3	6.4	5.9	6.2	6.3	6.6	6.3	6.3	6.4	6.4
ROWDY (SRX-TPC)	6.2	6.9	6.3	6.3	5.8	6.5	6.3	6.3	6.5	6.8	6.4	6.5	6.4
B23	6.3	6.7	6.2	6.4	5.9	6.3	6.3	6.2	6.5	6.7	6.8	6.6	6.4
RAD-TF-89	6.5	6.9	6.2	6.1	6.2	6.0	6.1	6.4	6.3	6.5	6.9	6.6	6.4
REFLECTION (U45)	6.3	6.7	6.2	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.6	6.3	6.4
EMBRACE (PST-5EV2)	6.6	6.8	6.1	6.3	6.1	6.1	6.3	6.1	6.7	6.7	6.5	6.3	6.4
HEMI	6.2	6.8	6.2	6.1	6.3	6.3	6.6	6.4	6.5	6.6	6.3	6.3	6.4
FIRECRACKER SLS (PPG-TF-105)	6.5	6.8	6.2	6.3	6.2	6.3	6.4	6.3	6.2	6.7	6.5	6.2	6.4
PPG-TF-169	6.4	6.6	6.0	6.1	5.8	5.7	6.3	6.0	6.8	7.0	6.9	6.8	6.4
TRINITY (BIZEM)	6.4	6.8	6.3	6.1	6.5	6.2	6.3	6.2	6.4	6.6	6.5	6.1	6.3
FIREWALL (PSG-WE1)	6.5	6.8	6.1	6.2	6.1	6.3	6.3	6.4	6.5	6.3	6.3	6.4	6.3
RAPTOR III (ZW 44)	6.3	7.0	6.1	6.2	5.8	6.3	6.2	6.2	6.6	6.8	6.4	6.3	6.3
REBOUNDER (PICK-W43)	6.8	6.8	6.2	5.6	5.9	5.9	6.0	6.3	6.6	6.6	6.7	6.8	6.3
ATF 1704	6.3	6.8	5.8	6.1	6.2	6.3	6.4	6.5	6.3	6.4	6.3	6.4	6.3
JS 916	6.1	6.7	6.3	6.3	6.3	6.4	6.3	6.2	6.2	6.7	6.3	6.3	6.3
XTENDER (PPG-TF-139)	6.7	6.4	6.4	6.0	6.3	6.2	6.1	6.3	6.0	6.6	6.4	6.5	6.3
ANNIHILATOR	6.6	6.3	6.1	6.0	6.2	5.9	6.1	6.3	6.3	6.5	6.7	6.7	6.3
LEONARDO (LTP-FSD)	6.4	6.8	6.0	6.1	6.0	6.2	6.3	6.1	6.4	6.8	6.3	6.3	6.3
GRANDE 3	6.2	6.7	5.8	6.0	5.8	6.3	6.1	6.3	6.4	6.7	6.7	6.8	6.3
RAD-TF-92	6.3	6.7	6.3	5.8	6.3	5.8	6.6	6.2	6.3	6.3	6.5	6.6	6.3

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
2013-17 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
F711	6.6	6.4	6.0	6.0	5.8	6.5	6.4	6.5	6.4	6.6	6.1	6.2	6.3
DYNAMITE LS (PPG-TF-145)	6.3	6.8	6.2	6.3	6.3	6.1	6.2	6.2	6.0	6.6	6.3	6.3	6.3
FAITH	6.4	6.8	6.4	6.3	6.2	6.1	5.9	6.2	6.3	6.2	6.4	6.2	6.3
PPG-TF-135	6.3	6.5	5.9	6.1	6.3	6.1	6.3	5.9	6.6	6.5	6.6	6.3	6.3
DIABLO (IS-TF 330)	6.2	6.7	5.9	6.6	5.8	6.3	6.1	6.5	6.5	6.1	6.3	6.2	6.3
JS 819	6.0	6.2	6.2	6.2	5.9	5.9	6.1	6.3	6.1	6.8	6.8	6.8	6.3
PARAMOUNT (PPG-TF-137)	6.0	6.4	5.8	5.8	6.3	6.5	6.3	6.2	6.5	6.4	6.3	6.4	6.3
CATALYST	6.0	6.4	6.0	6.2	5.9	6.3	6.3	6.5	6.2	6.4	6.5	6.4	6.3
FAYETTE (IS-TF 291)	6.3	6.2	5.6	5.8	5.8	5.9	6.0	6.1	6.3	6.8	7.2	6.8	6.2
K12-MCD	6.1	6.5	6.1	6.0	6.3	6.4	6.1	6.3	6.2	6.3	6.3	6.3	6.2
FESNOVA	6.5	6.3	5.9	6.0	5.9	6.0	6.1	6.3	6.3	6.6	6.5	6.3	6.2
CROSSFIRE 4 (IS-TF 310 SEL)	6.5	6.6	6.1	6.2	6.3	6.0	6.3	6.3	6.2	5.9	6.0	6.3	6.2
UNITUS (IS-TF 289)	6.2	6.5	5.8	6.2	5.9	5.8	5.9	5.9	6.7	6.6	6.8	6.5	6.2
REBEL V (ATF 1736)	6.3	6.7	5.8	6.2	6.0	5.8	6.2	6.2	6.0	6.5	6.6	6.5	6.2
BLOODHOUND (MET 6 SEL)	6.2	6.0	5.8	5.9	5.7	5.9	6.2	6.3	6.7	6.7	6.6	6.7	6.2
KINGDOM (DB1)	5.9	6.3	6.0	6.2	6.4	6.7	6.3	6.2	6.2	6.3	6.2	5.9	6.2
TURFWAY (IS-TF 282 M2)	6.3	6.5	5.6	6.4	6.0	6.1	6.1	6.1	6.2	6.4	6.6	6.2	6.2
IS-TF-287	6.0	6.7	5.6	6.1	5.5	6.0	5.8	6.3	6.5	6.6	6.7	6.5	6.2
THUNDERSTRUCK (TD1)	5.8	6.3	6.1	6.2	5.8	6.2	6.5	6.2	6.3	6.3	6.4	6.3	6.2
WARHAWK	6.3	6.3	5.9	6.1	6.3	6.0	6.4	6.1	6.3	6.1	6.3	6.2	6.2
THOR (PPG-TF-157)	6.0	6.5	5.9	5.8	6.2	6.3	6.3	6.0	6.3	6.3	6.3	6.3	6.2
PST-5MVD	6.4	6.0	5.8	6.3	6.3	6.3	6.2	6.3	6.1	6.3	6.3	6.0	6.2
RHAMBLER 2 SRP (LSD)	6.3	6.0	5.7	5.8	6.0	6.2	6.3	6.5	6.3	6.6	6.4	6.2	6.2
WICHITA (PPG-TF-151)	6.3	6.3	6.1	6.3	5.9	5.8	5.8	5.7	6.3	6.6	6.7	6.5	6.2
JS 818	6.3	6.3	5.5	5.8	5.7	5.8	6.1	5.8	6.3	6.6	7.1	6.8	6.2
TRAVERSE 2 SRP (W45)	6.3	6.8	6.0	5.8	5.7	6.1	6.3	6.3	5.9	6.5	6.3	5.9	6.2
ARES (PPG-TF-142)	6.1	6.2	5.7	6.0	6.2	6.1	6.1	6.1	6.2	6.3	6.4	6.6	6.1
K12-05	6.2	6.6	5.8	5.9	5.7	6.0	6.2	6.2	6.0	6.2	6.4	6.3	6.1
FIREBIRD 2	6.0	6.5	5.8	5.9	6.1	6.2	6.3	6.2	6.4	6.5	5.9	5.6	6.1
MICHELANGELO (LTP-F5DPDR)	5.9	6.1	5.5	5.7	6.0	6.1	6.1	6.1	6.7	6.4	6.4	6.4	6.1
RHIZING MOON (IS-TF 305 SEL)	6.3	6.3	5.8	5.8	5.6	5.7	5.9	6.2	6.5	6.5	6.3	6.3	6.1
IS-TF 272	6.0	6.6	5.9	5.8	5.4	6.0	6.0	6.1	6.2	6.5	6.4	6.1	6.1
MARAUDER	5.9	6.0	5.8	5.8	5.7	6.3	6.3	6.3	6.1	6.3	6.3	6.1	6.1
IS-TF 276 M2	6.3	5.8	5.5	5.5	5.6	6.0	6.1	6.4	6.3	6.7	6.4	6.2	6.1
BAR FA 121095	6.2	6.3	5.8	5.8	5.8	5.8	6.0	6.2	6.2	6.1	6.2	6.3	6.0
CAESAR (TY 10)	5.8	6.1	5.7	6.0	5.7	5.8	6.3	6.0	6.2	6.4	6.4	6.3	6.0
STANDOUT (IS-TF 308 SEL)	5.8	6.3	5.7	6.3	5.8	5.7	6.3	5.8	6.5	6.1	6.2	6.2	6.0
PST-5EX2	6.1	6.3	5.6	5.6	6.0	6.2	6.2	6.2	6.0	6.1	6.1	6.2	6.0
PST-5BP0	6.1	6.5	5.8	5.8	5.9	5.7	6.1	6.0	6.3	6.2	6.1	6.0	6.0
PPG-TF-115	6.0	6.1	5.8	6.1	6.1	6.1	6.1	6.1	5.9	6.0	6.0	6.1	6.0
TRENDING (IS-TF 269 SEL)	6.0	6.3	5.6	5.8	5.7	5.8	5.9	6.3	6.2	6.2	6.4	6.2	6.0
PPG-TF-138	5.9	6.3	5.8	5.8	6.0	5.7	6.3	6.0	5.9	6.3	6.1	6.0	6.0
PSG-GSD	6.0	6.3	5.8	6.1	5.7	5.4	6.1	5.9	5.9	6.2	6.4	6.3	6.0
BULLSEYE	5.7	6.9	5.9	5.8	6.0	6.1	5.8	5.9	6.0	5.9	5.9	5.9	6.0
VALKYRIE LS (PPG-TF-172)	5.9	6.3	5.7	5.9	5.9	5.8	5.8	6.0	5.8	6.2	6.5	6.2	6.0

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PST-5DZP	6.2	6.1	5.6	6.0	5.7	5.6	6.1	6.0	6.1	6.3	6.2	6.2	6.0
INSPIRATION (PST-R5NW)	5.9	6.3	5.7	5.6	5.9	5.8	6.0	6.3	6.1	6.2	6.1	6.0	6.0
HOUNDG8 (IS-TF 307 SEL)	5.9	6.3	5.6	6.0	5.8	5.8	6.0	5.8	6.3	6.1	6.1	5.9	6.0
PSG-TT4	5.9	6.4	5.9	5.7	5.4	5.6	5.6	5.9	6.3	6.3	6.3	6.3	6.0
MERIDIAN (PST-5GRB)	5.9	6.5	5.8	5.8	6.0	6.0	6.0	5.8	5.9	6.2	5.9	5.7	6.0
AQUADUCT	5.9	6.3	5.6	5.8	5.6	5.7	5.8	6.2	5.8	6.6	6.1	6.1	5.9
PSG-8BP2	6.1	6.5	5.8	5.8	5.7	5.4	6.1	5.8	5.9	6.3	5.9	5.9	5.9
MEMPHIS (GO-DFR)	6.2	5.9	5.7	5.8	6.1	6.2	6.1	5.9	6.0	5.8	5.8	5.8	5.9
JS 809	5.9	6.6	5.6	5.8	5.7	5.9	6.0	6.0	5.8	6.0	5.9	5.9	5.9
ATF 1754	6.0	6.6	5.5	5.8	6.3	5.8	5.7	6.1	5.5	6.2	5.7	5.7	5.9
K12-13	5.8	6.3	5.6	5.6	5.7	5.6	6.1	6.1	5.8	6.2	6.0	6.1	5.9
AVENGER II (PPG-TF-156)	5.8	6.6	5.7	5.6	5.6	5.8	5.6	6.0	6.0	6.1	6.0	5.8	5.9
RAD-TF-83	6.0	6.0	5.3	5.9	5.7	5.7	5.7	6.0	6.1	5.9	6.1	5.8	5.8
FOXHOUND (IS-TF 284 M2)	5.8	5.9	5.3	5.8	5.3	5.4	5.8	5.8	6.1	6.3	6.3	5.8	5.8
BAR FA 121091	5.9	6.3	5.6	5.6	5.7	5.7	5.7	5.8	5.9	5.5	5.8	6.0	5.8
SALTILLO (PST-5SALT)	5.6	5.9	5.3	5.8	6.1	5.8	6.1	6.0	5.7	5.8	5.5	5.6	5.8
PST-5BRK	5.7	5.9	5.6	6.0	5.4	5.6	5.4	5.8	5.9	6.2	5.9	5.7	5.8
SWAGGER (PST-5RO5)	5.7	5.8	5.3	5.8	5.5	5.6	5.6	5.9	5.8	6.2	5.9	5.8	5.7
FRONTLINE (EXP TF-09)	5.8	5.9	5.5	5.8	5.6	5.3	5.6	5.8	5.7	6.0	5.9	5.8	5.7
COMP. RES. SST	5.6	5.9	5.6	5.4	5.3	5.8	5.8	5.9	5.7	6.0	5.8	5.6	5.7
NIGHTCRAWLER (IS-TF 285)	5.6	5.8	5.2	5.8	5.5	5.3	6.0	5.6	5.8	5.9	5.8	6.0	5.7
RAIN DANCE (PST-5SDT)	5.4	5.6	5.4	5.6	5.5	5.7	5.8	5.9	5.9	6.0	5.7	5.6	5.7
BAR FA 121089	5.6	5.8	5.3	5.6	5.8	5.8	5.6	5.9	5.3	5.7	5.6	5.6	5.6
TEMPTATION (OR-21)	5.6	6.1	5.5	5.7	5.0	5.2	5.3	5.7	5.6	6.0	5.8	5.9	5.6
JS 825	6.0	6.0	5.3	5.6	4.9	5.3	5.6	5.4	5.2	5.7	5.4	5.5	5.5
BAR FA 120878	5.1	5.6	4.9	5.5	5.3	5.1	5.1	5.4	5.1	5.1	4.9	5.0	5.2
KY-31	3.8	4.3	3.8	4.2	3.7	3.6	3.9	4.4	4.4	4.7	4.5	4.2	4.1
LSD VALUE	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.4
C.V. (%)	10.4	11.0	15.0	11.9	11.8	11.8	10.7	10.8	12.8	11.6	11.2	11.5	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 10.

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2014 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	BEFORE TRAFFIC ON APRIL 16				AFTER TRAFFIC IN SPRING (JUNE 3)				BEFORE TRAFFIC ON JULY 1			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
HOT ROD (BURL TF-136)	8.3	8.3	83.3	76.7	9.0	6.7	93.3	75.0	9.0	7.0	95.0	71.7
REGENERATE	7.0	6.0	81.7	66.7	9.0	6.3	93.3	68.3	9.0	7.0	95.0	75.0
TECHNIQUE (RZ2)	8.0	8.0	83.3	83.3	9.0	8.0	93.3	78.3	9.0	9.0	95.0	88.3
4TH MILLENNIUM SRP (U43)	7.7	8.3	78.3	80.0	9.0	7.3	91.7	71.7	9.0	7.3	93.3	78.3
CATALYST	8.0	7.3	78.3	78.3	9.0	7.0	88.3	66.7	8.7	6.7	91.7	73.3
B23	8.0	7.7	78.3	73.3	9.0	7.3	93.3	76.7	9.0	7.0	95.0	73.3
COMP. RES. SST	6.0	6.0	68.3	65.0	8.0	4.7	83.3	53.3	8.3	7.0	86.7	75.0
HEMI	8.0	7.7	81.7	78.3	9.0	7.3	93.3	80.0	9.0	7.3	95.0	76.7
IS-TF 311	8.3	8.3	81.7	76.7	9.0	7.0	93.3	70.0	9.0	6.3	95.0	71.7
RAD-TF-92	6.3	6.3	65.0	68.3	8.7	6.7	90.0	66.7	9.0	7.0	93.3	71.7
RAPTOR III (ZW 44)	8.0	8.0	78.3	80.0	9.0	7.7	90.0	73.3	9.0	6.7	93.3	76.7
REFLECTION (U45)	7.0	7.0	75.0	71.7	9.0	7.0	91.7	76.7	9.0	7.3	93.3	76.7
AVENGER II (PPG-TF-156)	6.7	7.7	66.7	80.0	8.7	7.3	91.7	73.3	8.7	7.7	91.7	80.0
OLYMPUS (RAD-TF-88)	6.7	6.7	70.0	66.7	8.7	6.3	93.3	65.0	9.0	7.3	90.0	73.3
ATF 1704	7.7	8.3	80.0	78.3	8.7	7.0	90.0	73.3	9.0	7.7	83.3	80.0
F711	7.7	8.0	83.3	75.0	9.0	6.3	93.3	68.3	9.0	7.7	95.0	76.7
CROSSFIRE 4 (IS-TF 310 SEL)	7.0	7.7	76.7	75.0	8.7	6.0	90.0	65.0	9.0	6.3	93.3	75.0
DIABLO (IS-TF 330)	7.0	6.7	75.0	75.0	9.0	6.7	93.3	65.0	9.0	6.7	93.3	71.7
IS-TF-287	7.0	7.7	70.0	70.0	9.0	6.3	88.3	63.3	8.7	6.3	85.0	70.0
JS 916	7.3	7.0	73.3	70.0	9.0	7.0	90.0	73.3	9.0	6.3	95.0	75.0
VALKYRIE LS (PPG-TF-172)	7.7	7.3	76.7	75.0	8.7	6.3	91.7	63.3	9.0	7.0	93.3	75.0
FIREWALL (PSG-WE1)	8.0	8.7	83.3	76.7	9.0	6.7	93.3	73.3	9.0	7.3	93.3	81.7
RAD-TF-89	6.0	6.3	71.7	73.3	8.7	6.0	91.7	65.0	8.7	6.7	95.0	76.7
RHAMBLER 2 SRP (LSD)	6.7	7.3	68.3	75.0	8.7	7.0	88.3	66.7	9.0	7.0	90.0	73.3
TITANIUM 2LS (PPG-TF-152)	7.3	7.7	78.3	80.0	9.0	7.0	93.3	75.0	9.0	8.0	93.3	80.0
GRANDE 3	8.0	8.0	81.7	78.3	8.3	6.0	93.3	76.7	9.0	6.7	93.3	70.0
FAYETTE (IS-TF 291)	7.3	7.3	76.7	76.7	8.3	5.7	86.7	56.7	9.0	7.7	91.7	71.7
STANDOUT (IS-TF 308 SEL)	7.0	8.0	76.7	81.7	8.7	6.3	90.0	65.0	9.0	6.0	93.3	75.0
PPG-TF-138	7.7	7.3	83.3	75.0	8.7	5.3	90.0	61.7	9.0	6.7	90.0	66.7
SCREAMER LS (PPG-TF-148)	8.0	8.3	85.0	81.7	9.0	6.3	88.3	70.0	9.0	7.7	93.3	76.7
MAESTRO (T31)	8.0	7.3	83.3	75.0	8.7	5.7	90.0	61.7	8.7	6.0	93.3	66.7
204 RES. BLK4	6.7	7.0	68.3	73.3	8.3	5.0	86.7	61.7	9.0	7.0	88.3	66.7
BAR FA 121095	5.3	5.7	58.3	61.7	8.3	6.0	86.7	66.7	8.7	7.0	90.0	75.0
FALCON V	7.0	7.0	80.0	73.3	9.0	6.7	90.0	63.3	9.0	7.3	93.3	75.0
MEMPHIS (GO-DFR)	7.3	7.3	73.3	73.3	9.0	5.7	90.0	63.3	9.0	7.3	86.7	68.3
REBOUNDER (PICK-W43)	8.0	8.3	80.0	76.7	9.0	6.0	95.0	68.3	9.0	6.7	93.3	68.3
PSG-8BP2	7.7	7.7	75.0	73.3	7.7	5.7	81.7	60.0	8.7	6.7	85.0	68.3
ATF 1754	8.3	8.3	78.3	80.0	8.7	5.3	91.7	71.7	9.0	7.0	88.3	73.3
FIREBIRD 2	7.7	8.0	71.7	83.3	9.0	8.0	91.7	75.0	9.0	8.0	95.0	80.0
GTO (BURL TF-2)	8.0	8.3	80.0	80.0	8.7	6.7	90.0	63.3	9.0	7.0	86.7	73.3
TRENDING (IS-TF 269 SEL)	7.3	7.3	80.0	75.0	8.3	5.3	90.0	56.7	9.0	6.0	95.0	66.7
UNITUS (IS-TF 289)	6.7	7.0	76.7	75.0	9.0	7.0	91.7	65.0	9.0	6.3	93.3	68.3
MET 1	8.0	8.0	85.0	86.7	9.0	5.7	95.0	71.7	9.0	7.0	95.0	68.3
XTENDER (PPG-TF-139)	7.3	8.0	73.3	76.7	8.7	7.0	95.0	75.0	8.7	8.0	93.3	80.0
BLACK TAIL (PPG-TF-150)	6.7	6.3	80.0	71.7	9.0	6.0	95.0	70.0	9.0	7.3	95.0	70.0

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2014 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	BEFORE TRAFFIC ON APRIL 16				AFTER TRAFFIC IN SPRING (JUNE 3)				BEFORE TRAFFIC ON JULY 1			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
AMITY (CCR2)	7.7	8.3	80.0	83.3	9.0	7.0	93.3	75.0	9.0	7.3	91.7	73.3
FOXHOUND (IS-TF 284 M2)	6.3	6.7	66.7	66.7	8.7	6.3	90.0	55.0	9.0	6.7	91.7	75.0
K12-05	5.3	5.7	60.0	56.7	8.0	4.3	83.3	48.3	8.7	5.0	88.3	58.3
BLOODHOUND (MET 6 SEL)	7.3	7.3	78.3	75.0	8.7	6.0	88.3	66.7	9.0	6.3	93.3	80.0
PPG-TF-135	8.7	8.0	85.0	83.3	9.0	7.3	95.0	71.7	9.0	8.3	93.3	81.7
PST-5BPO	8.0	7.7	78.3	76.7	8.3	6.7	88.3	66.7	8.0	7.0	90.0	76.7
W41	6.3	6.7	70.0	68.3	8.7	6.7	91.7	68.3	8.7	6.3	91.7	75.0
TEMPLE (DZ1)	7.3	7.3	75.0	76.7	9.0	7.3	88.3	71.7	8.7	7.0	91.7	71.7
HOUNDOG8 (IS-TF 307 SEL)	7.0	7.3	75.0	78.3	9.0	6.3	90.0	61.7	9.0	6.3	91.7	66.7
K12-13	5.0	5.7	50.0	53.3	8.7	5.0	85.0	53.3	8.7	6.0	91.7	75.0
FIRECRACKER SLS (PPG-TF-105)	7.3	7.3	81.7	78.3	8.7	5.7	93.3	55.0	9.0	6.7	91.7	70.0
PPG-TF-169	7.0	6.7	78.3	76.7	8.3	5.7	90.0	58.3	9.0	6.7	91.7	66.7
SUPERSONIC (PPG-TF-170)	7.3	7.7	76.7	78.3	9.0	5.7	93.3	61.7	8.7	7.0	93.3	71.7
PSG-PO1	7.3	8.0	75.0	71.7	8.7	5.0	85.0	63.3	8.0	5.0	86.7	55.0
PST-5EX2	9.0	9.0	83.3	85.0	8.0	6.0	75.0	58.3	8.0	7.0	85.0	70.0
REBEL V (ATF 1736)	8.0	8.0	78.3	75.0	8.3	5.7	88.3	66.7	8.7	6.7	93.3	66.7
BULLSEYE	7.7	7.7	80.0	75.0	9.0	5.7	91.7	61.7	8.7	6.0	90.0	66.7
HOVER (BURL TF-69)	7.0	7.0	73.3	70.0	8.7	5.3	93.3	58.3	9.0	5.3	91.7	66.7
NIGHTCRAWLER (IS-TF 285)	7.0	7.7	73.3	76.7	8.3	6.3	86.7	68.3	8.7	7.3	90.0	76.7
JS 819	5.7	6.7	65.0	70.0	8.0	5.7	81.7	61.7	7.3	5.7	80.0	71.7
PSG-GSD	8.3	8.0	78.3	76.7	8.3	6.7	86.7	70.0	8.7	7.3	93.3	75.0
EMBRACE (PST-5EV2)	7.3	7.7	73.3	71.7	8.7	7.0	93.3	75.0	9.0	8.7	95.0	80.0
MERIDIAN (PST-5GRB)	8.3	8.3	80.0	76.7	8.7	7.7	93.3	73.3	9.0	8.3	93.3	78.3
RAD-TF-83	6.0	7.3	65.0	71.7	8.0	5.0	78.3	63.3	8.3	5.7	85.0	65.0
ROWDY (SRX-TPC)	7.3	7.3	78.3	70.0	9.0	6.0	90.0	61.7	8.7	7.0	93.3	71.7
ANNIHILATOR	6.7	7.0	70.0	68.3	8.3	5.7	85.0	56.7	8.3	6.3	81.7	70.0
VERT (ATF 1612)	6.7	7.7	75.0	76.7	9.0	6.3	90.0	68.3	9.0	7.0	90.0	71.7
BAR FA 121089	5.3	6.0	63.3	66.7	7.7	4.7	76.7	55.0	7.0	5.7	85.0	68.3
CAESAR (TY 10)	7.7	7.7	76.7	71.7	8.3	5.3	81.7	50.0	8.3	5.7	86.7	63.3
IS-TF 272	6.7	7.0	68.3	68.3	8.3	4.0	86.7	53.3	8.7	6.3	88.3	65.0
IS-TF 276 M2	6.7	7.0	55.0	63.3	8.0	5.0	85.0	61.7	8.7	6.0	85.0	61.7
K12-MCD	8.0	8.0	80.0	81.7	8.3	4.7	83.3	53.3	8.7	6.7	86.7	73.3
MET-3	7.0	7.3	71.7	78.3	8.7	6.0	93.3	71.7	9.0	7.3	91.7	71.7
PARAMOUNT (PPG-TF-137)	6.3	7.0	73.3	80.0	8.7	6.7	86.7	65.0	9.0	7.3	95.0	78.3
PST-5DZP	7.0	7.3	68.3	68.3	8.7	6.3	86.7	61.7	8.3	7.3	86.7	70.0
WARHAWK	5.7	6.3	58.3	58.3	7.0	5.0	78.3	48.3	7.7	5.3	80.0	68.3
AQUADUCT	6.7	6.7	73.3	68.3	8.0	5.7	80.0	56.7	7.3	6.7	81.7	73.3
BAR FA 120878	5.3	5.3	50.0	50.0	6.3	4.3	68.3	45.0	6.3	6.0	73.3	63.3
TRINITY (BIZEM)	7.7	8.0	78.3	81.7	9.0	6.0	90.0	70.0	9.0	8.3	90.0	78.3
TURFWAY (IS-TF 282 M2)	7.7	7.3	80.0	75.0	8.7	6.0	88.3	60.0	9.0	6.3	90.0	68.3
MICHELANGELO (LTP-F5DPDR)	7.7	7.3	76.7	73.3	8.3	5.3	88.3	65.0	8.7	6.7	91.7	73.3
MARAUDER	6.3	5.7	61.7	58.3	7.7	3.3	81.7	43.3	8.0	5.7	85.0	63.3
PST-5MVD	6.7	7.7	70.0	76.7	8.3	5.7	88.3	58.3	8.7	7.0	86.7	73.3
SWAGGER (PST-5R05)	7.0	7.7	75.0	78.3	8.3	6.0	88.3	55.0	8.3	7.0	86.7	73.3
ARES (PPG-TF-142)	7.0	8.0	71.7	75.0	8.7	4.7	85.0	50.0	8.7	6.3	90.0	71.7

TABLE 10. PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2014 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	BEFORE TRAFFIC ON APRIL 16				AFTER TRAFFIC IN SPRING (JUNE 3)				BEFORE TRAFFIC ON JULY 1			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
FAITH	7.3	7.0	80.0	75.0	9.0	5.0	91.7	56.7	8.7	6.7	93.3	71.7
IS-TF 305 SEL	6.7	7.3	75.0	73.3	8.7	6.0	88.3	66.7	8.7	6.7	90.0	70.0
JS 809	5.3	6.0	58.3	65.0	7.7	4.3	85.0	51.7	8.3	6.3	86.7	63.3
JS 818	6.3	6.3	66.7	66.7	8.0	5.0	85.0	53.3	8.3	6.7	86.7	65.0
ROCKWELL (LTP-TWUU)	8.7	8.7	80.0	85.0	9.0	7.0	95.0	75.0	9.0	7.3	93.3	75.0
PSG-TT4	7.3	8.0	78.3	78.3	7.7	5.7	78.3	58.3	8.3	7.0	88.3	71.7
TRAVERSE 2 SRP (W45)	7.3	7.3	81.7	80.0	9.0	7.0	93.3	73.3	9.0	7.3	95.0	73.3
LEONARDO (LTP-FSD)	8.0	7.3	78.3	78.3	8.3	5.0	88.3	56.7	8.7	6.0	90.0	65.0
PPG-TF-115	7.0	7.7	73.3	75.0	8.0	5.7	83.3	53.3	8.7	6.7	91.7	70.0
DYNAMITE LS (PPG-TF-145)	7.0	7.0	71.7	71.7	8.3	5.7	88.3	58.3	8.7	6.3	86.7	65.0
WICHITA (PPG-TF-151)	7.0	6.7	73.3	70.0	8.3	5.0	90.0	61.7	8.7	7.0	90.0	80.0
THOR (PPG-TF-157)	7.7	7.3	78.3	73.3	8.7	5.7	91.7	58.3	9.0	5.7	90.0	63.3
RAIN DANCE (PST-5SDT)	7.3	8.3	76.7	76.7	8.0	5.7	86.7	56.7	8.7	7.0	86.7	75.0
KINGDOM (DB1)	7.0	6.7	68.3	71.7	9.0	6.0	93.3	61.7	8.7	6.7	90.0	68.3
INSPIRATION (PST-R5NW)	7.3	6.7	75.0	71.7	8.0	5.7	81.7	58.3	8.0	6.7	86.7	68.3
SALTILLO (PST-5SALT)	6.7	7.0	73.3	73.3	8.7	6.0	86.7	56.7	8.7	7.0	93.3	68.3
THUNDERSTRUCK (TD1)	6.3	6.3	63.3	63.3	8.3	5.7	88.3	58.3	8.3	6.0	85.0	70.0
BAR FA 121091	6.0	6.3	61.7	61.7	7.0	4.0	78.3	43.3	7.7	6.0	78.3	63.3
FALCON IV	7.0	7.7	76.7	75.0	8.0	6.0	85.0	61.7	8.7	7.0	86.7	66.7
PST-5BRK	7.3	8.0	71.7	78.3	8.7	6.3	88.3	60.0	8.7	7.0	88.3	65.0
TERRANO	7.0	7.3	71.7	71.7	7.7	4.7	81.7	55.0	8.7	6.3	85.0	71.7
FESNOVA	7.7	7.0	78.3	71.7	8.7	6.3	88.3	60.0	9.0	6.0	95.0	73.3
FRONTLINE (EXP TF-09)	6.7	7.0	71.7	65.0	8.0	5.0	76.7	46.7	7.3	5.0	76.7	53.3
TEMPTATION (OR-21)	6.7	7.0	68.3	71.7	7.7	4.7	81.7	45.0	7.7	5.3	83.3	63.3
JS 825	5.3	5.7	56.7	56.7	7.0	3.7	70.0	41.7	7.3	6.0	78.3	60.0
KY-31	5.3	5.3	56.7	53.3	6.3	3.7	63.3	38.3	6.3	5.0	63.3	50.0
LSD VALUE	1.7	1.6	12.8	11.5	0.7	2.3	7.3	18.4	0.7	2.1	6.1	16.9
C.V. (%)	12.7	11.7	10.0	9.2	5.3	19.2	5.2	15.7	5.0	14.6	4.3	11.0

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.

*/ TRAFFIC WAS APPLIED AS ONE PASS PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND ONE PASS PER WEEK OF THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR EIGHT WEEKS (16 TOTAL PASSES) IN SPRING, SUMMER AND FALL.

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2014 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 19)				BEFORE TRAFFIC ON SEPTEMBER 15				AFTER TRAFFIC IN FALL (NOVEMBER 11)			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
HOT ROD (BURL TF-136)	9.0	5.3	96.3	58.3	9.0	6.7	93.3	66.7	9.0	5.7	93.3	61.7
REGENERATE	9.0	6.0	94.7	65.0	9.0	6.7	94.7	71.7	9.0	6.3	95.0	61.7
TECHNIQUE (RZ2)	9.0	7.0	99.0	68.3	9.0	6.7	93.0	68.3	9.0	6.3	93.3	61.7
4TH MILLENNIUM SRP (U43)	9.0	6.0	91.7	60.0	9.0	6.3	93.3	65.0	9.0	6.0	93.3	60.0
CATALYST	9.0	5.7	88.3	58.3	8.7	6.7	90.0	70.0	9.0	6.3	93.3	60.0
B23	9.0	6.7	93.3	70.0	9.0	7.0	94.7	73.3	9.0	5.7	93.3	58.3
COMP. RES. SST	9.0	5.3	85.0	58.3	8.3	6.0	85.0	65.0	9.0	6.0	91.7	58.3
HEMI	9.0	6.7	96.3	66.7	9.0	7.3	94.7	75.0	9.0	6.3	93.3	56.7
IS-TF 311	9.0	6.0	93.3	61.7	9.0	6.7	91.7	66.7	9.0	5.7	93.3	56.7
RAD-TF-92	9.0	6.3	90.0	60.0	9.0	7.0	93.3	71.7	9.0	5.3	91.7	56.7
RAPTOR III (ZW 44)	9.0	6.0	93.3	56.7	9.0	6.7	96.0	68.3	9.0	6.0	93.3	56.7
REFLECTION (U45)	9.0	6.7	93.0	65.0	9.0	7.7	96.0	80.0	9.0	6.7	93.3	56.7
AVENGER II (PPG-TF-156)	9.0	7.0	95.0	70.0	9.0	6.7	93.3	70.0	9.0	5.7	93.3	55.0
OLYMPUS (RAD-TF-88)	8.7	6.0	93.3	61.7	9.0	6.3	93.3	68.3	9.0	5.7	93.3	55.0
ATF 1704	9.0	6.7	94.7	71.7	9.0	7.7	96.3	76.7	9.0	5.0	95.0	53.3
F711	9.0	5.7	91.7	58.3	9.0	6.3	96.0	66.7	9.0	6.3	95.0	53.3
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	6.3	95.0	61.7	9.0	6.3	94.7	65.0	9.0	6.0	90.0	53.3
DIABLO (IS-TF 330)	9.0	6.0	91.7	63.3	9.0	6.7	91.7	70.0	9.0	5.3	95.0	53.3
IS-TF-287	8.7	6.0	90.0	58.3	9.0	6.7	91.7	68.3	9.0	5.7	91.7	53.3
JS 916	9.0	6.7	93.3	65.0	9.0	6.3	91.7	68.3	9.0	5.7	93.3	53.3
VALKYRIE LS (PPG-TF-172)	9.0	5.7	95.0	60.0	9.0	6.0	90.0	61.7	9.0	5.0	95.0	53.3
FIREWALL (PSG-WE1)	9.0	6.7	95.0	61.7	9.0	6.7	94.7	70.0	9.0	5.7	95.0	53.3
RAD-TF-89	9.0	6.0	93.3	58.3	8.7	6.7	88.3	70.0	9.0	6.0	91.7	53.3
RHAMBLER 2 SRP (LSD)	8.7	5.7	93.3	53.3	8.7	6.0	91.3	60.0	9.0	6.3	88.3	53.3
TITANIUM 2LS (PPG-TF-152)	9.0	5.7	95.0	61.7	9.0	6.3	91.7	66.7	9.0	5.3	93.3	53.3
GRANDE 3	9.0	4.3	93.3	51.7	8.7	6.7	93.0	68.3	9.0	5.7	90.0	51.7
FAYETTE (IS-TF 291)	9.0	5.0	91.7	51.7	8.7	6.0	90.0	63.3	9.0	5.7	93.3	51.7
STANDOUT (IS-TF 308 SEL)	9.0	5.0	91.7	55.0	9.0	5.7	95.0	58.3	9.0	5.3	93.3	51.7
PPG-TF-138	8.3	5.7	91.7	55.0	9.0	6.0	91.7	63.3	9.0	4.7	88.3	51.7
SCREAMER LS (PPG-TF-148)	8.7	5.3	93.3	60.0	9.0	6.7	93.3	68.3	9.0	5.3	93.3	51.7
MAESTRO (T31)	9.0	4.7	95.0	53.3	9.0	6.7	96.3	66.7	9.0	5.3	91.7	51.7
204 RES. BLK4	8.3	4.7	88.3	48.3	8.7	5.7	88.3	56.7	9.0	5.3	93.3	50.0
BAR FA 121095	9.0	6.3	93.3	65.0	8.0	6.7	81.7	68.3	8.7	5.0	85.0	50.0
FALCON V	9.0	5.7	95.0	61.7	9.0	6.3	91.7	68.3	9.0	4.7	93.3	50.0
MEMPHIS (GO-DFR)	8.7	5.3	90.0	61.7	9.0	6.0	91.7	61.7	8.3	4.3	90.0	50.0
REBOUNDER (PICK-W43)	9.0	4.7	91.7	48.3	9.0	6.3	93.3	66.7	9.0	5.3	90.0	50.0
PSG-8BP2	8.0	5.0	85.0	51.7	8.3	6.3	86.7	68.3	7.7	5.0	81.7	50.0
ATF 1754	9.0	5.7	93.3	56.7	8.7	6.3	90.0	66.7	9.0	4.7	91.7	48.3
FIREBIRD 2	8.7	6.0	95.0	65.0	9.0	6.7	94.7	70.0	9.0	4.7	93.3	48.3
GTO (BURL TF-2)	9.0	7.0	91.7	70.0	9.0	7.0	94.7	75.0	9.0	4.7	91.7	48.3
TRENDING (IS-TF 269 SEL)	9.0	5.0	95.0	55.0	9.0	6.0	90.0	60.0	9.0	5.0	91.7	48.3
UNITUS (IS-TF 289)	9.0	5.7	93.3	60.0	8.7	5.7	88.3	60.0	9.0	4.7	90.0	48.3
MET 1	9.0	5.7	94.7	65.0	9.0	6.3	96.3	66.7	9.0	5.0	95.0	48.3
XTENDER (PPG-TF-139)	9.0	5.3	91.7	53.3	8.7	6.0	91.3	65.0	8.7	4.7	90.0	48.3

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2014 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	AFTER TRAFFIC IN UNIFORMITY		SUMMER (AUGUST 19) FULLNESS OF CANOPY		BEFORE TRAFFIC ON SEPTEMBER 15 UNIFORMITY		FULLNESS OF CANOPY		AFTER TRAFFIC IN FALL (NOVEMBER 11) UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
BLACK TAIL (PPG-TF-150)	9.0	4.7	93.3	50.0	9.0	5.7	97.7	56.7	8.7	5.0	91.7	48.3
AMITY (CCR2)	9.0	4.0	91.7	50.0	9.0	6.0	91.7	61.7	8.7	4.0	93.3	46.7
FOXHOUND (IS-TF 284 M2)	9.0	6.0	91.7	53.3	9.0	6.0	90.0	61.7	9.0	4.7	90.0	46.7
K12-05	8.7	4.3	86.7	46.7	8.7	6.0	88.3	61.7	9.0	4.0	90.0	46.7
BLOODHOUND (MET 6 SEL)	9.0	5.3	96.3	53.3	8.7	5.7	90.0	56.7	8.7	5.0	91.7	46.7
PPG-TF-135	9.0	6.0	93.3	65.0	9.0	6.3	94.7	66.7	9.0	5.0	93.3	46.7
PST-5BPO	8.7	6.3	90.0	65.0	8.7	6.7	90.0	70.0	8.7	4.7	81.7	46.7
W41	9.0	4.3	90.0	45.0	9.0	5.3	93.3	55.0	8.7	4.3	91.7	46.7
TEMPLE (DZ1)	9.0	6.0	93.0	61.7	9.0	6.3	90.0	68.3	9.0	5.0	91.7	45.0
HOUNDG8 (IS-TF 307 SEL)	9.0	5.7	94.7	61.7	9.0	6.0	90.0	65.0	9.0	4.7	93.3	45.0
K12-13	8.7	4.7	88.3	50.0	8.7	6.0	90.0	63.3	8.7	4.7	88.3	45.0
FIRECRACKER SLS (PPG-TF-105)	9.0	4.7	91.7	45.0	8.7	5.3	90.0	53.3	9.0	4.3	91.7	45.0
PPG-TF-169	9.0	4.3	93.0	50.0	8.7	5.3	90.0	56.7	9.0	5.3	90.0	45.0
SUPERSONIC (PPG-TF-170)	9.0	5.7	91.7	55.0	8.7	6.3	90.0	66.7	9.0	4.3	91.7	45.0
PSG-PO1	8.7	3.3	93.3	45.0	9.0	6.7	93.3	68.3	9.0	4.3	90.0	45.0
PST-5EX2	8.0	5.7	86.7	60.0	8.7	6.7	86.7	71.7	8.0	4.7	81.7	45.0
REBEL V (ATF 1736)	8.0	5.3	91.7	58.3	8.7	6.7	90.0	68.3	9.0	5.0	91.7	43.3
BULLSEYE	9.0	4.7	91.7	45.0	9.0	6.0	91.7	61.7	9.0	4.3	91.7	43.3
HOVER (BURL TF-69)	9.0	6.7	95.0	70.0	9.0	6.7	91.7	71.7	9.0	5.3	90.0	43.3
NIGHTCRAWLER (IS-TF 285)	8.7	5.0	91.7	51.7	8.7	6.3	90.0	66.7	9.0	4.3	88.3	43.3
JS 819	8.0	5.3	86.7	61.7	8.0	5.3	81.7	56.7	8.7	4.3	78.3	43.3
PSG-GSD	8.7	6.3	88.3	61.7	8.7	6.7	90.0	70.0	8.0	4.0	85.0	43.3
EMBRACE (PST-5EV2)	8.7	5.3	95.0	60.0	9.0	6.7	96.0	68.3	9.0	5.0	90.0	43.3
MERIDIAN (PST-5GRB)	9.0	6.7	94.7	66.7	9.0	7.0	94.7	73.3	9.0	5.3	90.0	43.3
RAD-TF-83	8.3	5.0	86.7	46.7	8.3	6.3	85.0	65.0	8.3	4.0	88.3	43.3
ROWDY (SRX-TPC)	9.0	5.3	95.0	55.0	8.7	7.0	90.0	70.0	8.7	4.0	88.3	43.3
ANNIHILATOR	8.3	5.0	83.3	61.7	8.0	5.7	81.7	60.0	8.3	4.7	90.0	41.7
VERT (ATF 1612)	9.0	4.7	90.0	50.0	9.0	6.3	96.3	61.7	9.0	4.3	90.0	41.7
BAR FA 121089	8.3	5.3	85.0	55.0	7.7	5.0	80.0	51.7	8.0	4.3	78.3	41.7
CAESAR (TY 10)	8.3	4.3	85.0	48.3	8.7	6.0	88.3	65.0	8.3	4.3	86.7	41.7
IS-TF 272	8.3	4.0	91.7	53.3	9.0	6.0	90.0	58.3	9.0	4.3	91.7	41.7
IS-TF 276 M2	8.0	4.0	83.3	50.0	8.0	6.0	85.0	63.3	8.7	4.0	85.0	41.7
K12-MCD	8.7	5.3	90.0	56.7	8.7	6.7	90.0	68.3	9.0	4.0	90.0	41.7
MET-3	8.7	4.3	91.7	50.0	9.0	5.7	95.0	60.0	8.7	4.3	93.3	41.7
PARAMOUNT (PPG-TF-137)	9.0	6.3	93.3	61.7	9.0	6.7	91.7	68.3	9.0	4.3	93.3	41.7
PST-5DZP	8.7	4.7	91.7	48.3	8.7	6.7	90.0	70.0	8.7	3.7	81.7	41.7
WARHAWK	8.0	4.7	81.7	51.7	7.3	5.7	78.3	61.7	8.0	3.7	80.0	41.7
AQUADUCT	8.0	6.3	85.0	58.3	8.3	6.3	85.0	63.3	8.7	4.3	86.7	40.0
BAR FA 120878	7.0	5.3	70.0	48.3	6.3	4.3	66.7	45.0	7.0	4.3	63.3	40.0
TRINITY (BIZEM)	9.0	4.7	95.0	56.7	9.0	6.0	91.7	65.0	9.0	4.7	91.7	40.0
TURFWAY (IS-TF 282 M2)	8.7	5.3	93.3	60.0	9.0	6.0	90.0	65.0	9.0	4.7	90.0	40.0
MICHELANGELO (LTP-F5DPDR)	9.0	5.7	90.0	58.3	9.0	6.0	91.7	61.7	9.0	5.3	90.0	40.0
MARAUDER	8.0	4.0	88.3	45.0	8.0	5.3	83.3	56.7	8.7	4.3	88.3	40.0
PST-5MVD	8.3	5.0	90.0	51.7	8.7	6.3	88.3	68.3	8.3	3.7	90.0	40.0
SWAGGER (PST-5R05)	8.7	5.7	85.0	55.0	8.7	6.7	88.3	70.0	8.7	3.7	85.0	40.0

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2014 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 19) UNIFORMITY FULLNESS OF CANOPY		BEFORE TRAFFIC ON SEPTEMBER 15 UNIFORMITY FULLNESS OF CANOPY		AFTER TRAFFIC IN FALL (NOVEMBER 11) UNIFORMITY FULLNESS OF CANOPY							
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC						
ARES (PPG-TF-142)	8.7	4.7	90.0	46.7	8.3	5.3	85.0	55.0	8.7	3.7	90.0	38.3
FAITH	9.0	5.7	90.0	48.3	8.7	6.3	90.0	65.0	8.7	4.7	90.0	38.3
IS-TF 305 SEL	9.0	3.7	91.7	43.3	8.7	5.3	88.3	56.7	8.7	3.7	88.3	38.3
JS 809	8.3	5.3	81.7	51.7	8.3	6.0	85.0	65.0	8.7	4.3	83.3	38.3
JS 818	8.3	4.7	85.0	53.3	8.7	5.7	86.7	60.0	8.3	4.3	85.0	38.3
ROCKWELL (LTP-TWUU)	9.0	5.3	93.3	51.7	9.0	6.0	96.3	63.3	9.0	4.3	91.7	38.3
PSG-TT4	8.3	5.3	83.3	56.7	8.3	5.3	83.3	58.3	8.0	4.3	76.7	38.3
TRAVERSE 2 SRP (W45)	9.0	5.3	95.0	50.0	9.0	5.3	96.3	56.7	9.0	5.0	93.3	38.3
LEONARDO (LTP-FSD)	9.0	4.3	93.3	50.0	8.7	6.7	90.0	65.0	9.0	3.7	91.7	36.7
PPG-TF-115	8.0	4.7	88.3	55.0	8.3	5.3	88.3	55.0	8.7	4.0	86.7	36.7
DYNAMITE LS (PPG-TF-145)	8.7	4.7	86.7	48.3	8.7	6.0	90.0	61.7	8.0	3.0	85.0	36.7
WICHITA (PPG-TF-151)	9.0	5.0	91.7	51.7	8.7	5.7	90.0	60.0	9.0	4.0	90.0	36.7
THOR (PPG-TF-157)	8.7	4.7	91.7	51.7	9.0	5.3	91.7	56.7	9.0	4.7	90.0	36.7
RAIN DANCE (PST-5SDT)	8.7	6.0	88.3	61.7	8.0	6.0	83.3	61.7	8.3	3.3	81.7	36.7
KINGDOM (DB1)	8.7	4.3	90.0	45.0	8.7	6.0	90.0	63.3	9.0	3.3	90.0	35.0
INSPIRATION (PST-R5NW)	8.0	6.3	85.0	66.7	8.3	6.0	85.0	63.3	8.0	3.3	80.0	35.0
SALTILLO (PST-5SALT)	9.0	5.0	91.7	58.3	8.7	6.0	88.3	61.7	8.7	4.0	81.7	35.0
THUNDERSTRUCK (TD1)	9.0	5.0	86.7	55.0	8.3	5.3	88.3	56.7	8.7	3.7	86.7	35.0
BAR FA 121091	8.0	5.3	83.3	53.3	7.7	5.7	76.7	60.0	8.0	2.3	83.3	33.3
FALCON IV	8.0	5.3	83.3	56.7	8.0	5.7	85.0	61.7	7.7	3.3	85.0	33.3
PST-5BRK	8.7	5.0	85.0	50.0	9.0	6.3	91.7	65.0	8.7	3.3	83.3	33.3
TERRANO	8.7	4.3	83.3	41.7	8.7	5.7	88.3	58.3	8.0	2.7	85.0	33.3
FESNOVA	8.7	5.0	91.7	51.7	9.0	6.7	93.3	70.0	8.7	3.3	85.0	31.7
FRONTLINE (EXP TF-09)	8.0	4.0	81.7	46.7	7.7	5.7	80.0	60.0	7.7	3.3	73.3	31.7
TEMPTATION (OR-21)	8.3	4.0	86.7	45.0	8.7	5.3	90.0	55.0	8.0	2.7	83.3	31.7
JS 825	8.0	3.3	78.3	38.3	7.3	5.0	75.0	50.0	7.3	1.7	73.3	26.7
KY-31	7.0	3.3	70.0	31.7	6.0	4.0	61.7	45.0	6.0	1.3	61.7	20.0
LSD VALUE	0.5	3.8	5.2	34.4	0.7	3.3	6.6	28.8	0.5	2.2	5.3	19.2
C.V. (%)	3.8	23.8	3.7	20.3	4.7	15.5	4.6	14.6	3.6	24.8	3.9	21.3

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.

*/ TRAFFIC WAS APPLIED AS ONE PASS PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND ONE PASS PER WEEK OF THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR EIGHT WEEKS (16 TOTAL PASSES) IN SPRING, SUMMER AND FALL.

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2015 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	BEFORE TRAFFIC ON APRIL 13-14				AFTER TRAFFIC IN SPRING (JUNE 4)				BEFORE TRAFFIC ON JULY 29			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
TEMPLE (DZ1)	8.0	5.7	88.3	51.7	9.0	6.7	96.3	71.7	9.0	8.7	96.3	90.0
EMBRACE (PST-5EV2)	8.0	6.0	83.3	55.0	9.0	7.0	93.3	70.0	9.0	8.7	97.7	93.3
HEMI	8.0	6.0	85.0	56.7	9.0	7.7	97.7	78.3	9.0	8.3	97.7	93.3
REFLECTION (U45)	8.0	6.3	83.3	65.0	9.0	7.3	95.0	76.7	8.7	8.7	99.0	93.3
TRINITY (BIZEM)	8.3	6.0	86.7	53.3	9.0	7.0	94.7	73.3	8.7	8.3	96.3	88.3
IS-TF-287	8.0	5.7	80.0	53.3	9.0	7.0	94.7	70.0	9.0	8.0	96.3	88.3
K12-13	6.7	5.3	70.0	50.0	8.3	5.3	94.7	60.0	9.0	7.7	91.7	83.3
PSG-8BP2	6.7	5.7	71.7	56.7	8.3	7.3	90.0	75.0	8.3	7.7	93.3	88.3
PST-5BPO	7.7	5.7	80.0	56.7	8.7	7.0	90.0	70.0	8.3	8.3	96.3	90.0
COMP. RES. SST	7.3	5.7	75.0	53.3	8.3	7.7	93.3	76.7	8.7	8.0	91.7	86.7
HOVER (BURL TF-69)	7.7	5.7	80.0	55.0	9.0	6.7	96.3	70.0	9.0	7.7	96.0	88.3
VALKYRIE LS (PPG-TF-172)	8.0	6.3	86.7	55.0	9.0	7.3	96.3	71.7	9.0	7.7	96.3	86.7
RAD-TF-89	8.0	5.7	85.0	65.0	9.0	7.7	94.7	80.0	9.0	8.3	93.3	88.3
RAPTOR III (ZW 44)	8.0	6.7	83.3	60.0	9.0	8.0	96.3	78.3	9.0	8.3	99.0	93.3
RHAMBLER 2 SRP (LSD)	8.0	6.0	80.0	55.0	9.0	6.3	96.3	70.0	9.0	9.0	97.7	93.3
XTENDER (PPG-TF-139)	7.3	5.3	78.3	53.3	9.0	7.3	94.7	76.7	9.0	9.0	97.7	93.3
IS-TF 311	8.0	6.3	86.7	60.0	9.0	7.7	96.3	78.3	9.0	8.3	94.7	88.3
K12-MCD	8.0	5.0	80.0	48.3	8.7	7.0	96.3	73.3	8.7	8.0	96.3	90.0
MEMPHIS (GO-DFR)	7.0	5.0	75.0	46.7	8.7	6.0	93.3	63.3	8.3	8.0	95.0	88.3
PPG-TF-135	8.0	5.7	86.7	56.7	9.0	7.3	97.7	78.3	9.0	9.0	97.7	93.3
PSG-GSD	7.7	5.3	80.0	50.0	8.3	7.0	91.7	75.0	9.0	8.7	95.0	90.0
PST-5BRK	7.3	4.7	75.0	46.7	8.7	6.7	91.7	66.7	8.7	8.3	96.3	88.3
SCREAMER LS (PPG-TF-148)	8.7	5.7	88.3	53.3	9.0	7.7	96.3	73.3	9.0	8.7	99.0	91.7
4TH MILLENNIUM SRP (U43)	8.3	6.0	86.7	56.7	9.0	7.7	97.7	73.3	9.0	9.0	99.0	95.0
ATF 1704	8.7	6.3	85.0	61.7	9.0	8.0	96.3	76.7	9.0	8.3	94.7	90.0
BULLSEYE	7.7	5.3	78.3	53.3	9.0	7.0	93.3	68.3	9.0	8.3	97.7	90.0
F711	8.3	6.3	85.0	55.0	9.0	7.0	96.3	75.0	9.0	8.3	99.0	94.7
FIRECRACKER SLS (PPG-TF-105)	7.7	5.3	78.3	45.0	9.0	6.7	94.7	75.0	9.0	8.0	97.7	88.3
JS 916	8.0	6.0	81.7	53.3	9.0	7.7	95.0	76.7	8.7	8.0	96.3	85.0
MICHELANGELO (LTP-F5DPDR)	7.7	5.7	81.7	51.7	8.7	7.3	95.0	73.3	9.0	7.7	93.3	86.7
OLYMPUS (RAD-TF-88)	7.7	5.3	81.7	53.3	9.0	7.0	96.3	73.3	9.0	8.0	97.7	90.0
RAD-TF-92	7.0	5.3	76.7	55.0	9.0	7.3	93.3	80.0	8.7	8.7	96.0	88.3
REBOUNDER (PICK-W43)	8.3	5.7	88.3	55.0	8.7	6.0	96.3	65.0	8.7	8.3	96.0	91.7
ROCKWELL (LTP-TWUU)	8.3	5.0	85.0	50.0	9.0	6.3	97.7	68.3	9.0	8.3	99.0	91.7
TRAVERSE 2 SRP (W45)	8.0	5.7	83.3	50.0	8.7	6.0	94.7	68.3	9.0	8.3	97.7	91.7
BLACK TAIL (PPG-TF-150)	8.0	5.7	81.7	53.3	9.0	7.0	95.0	71.7	8.7	8.0	97.7	90.0
GRANDE 3	8.7	5.7	86.7	56.7	8.7	6.7	97.7	71.7	9.0	8.0	96.0	91.7
KINGDOM (DB1)	7.0	5.3	75.0	46.7	9.0	6.3	93.3	68.3	8.7	8.0	94.7	88.3
NIGHTCRAWLER (IS-TF 285)	7.3	5.7	78.3	46.7	8.3	6.7	90.0	66.7	8.3	7.7	93.0	88.3
PPG-TF-169	8.3	6.0	85.0	58.3	9.0	6.7	96.3	70.0	9.0	8.3	93.3	90.0
PST-5EX2	8.0	5.7	81.7	56.7	8.3	7.3	88.3	73.3	8.0	7.3	91.7	86.7
TITANIUM 2LS (PPG-TF-152)	7.7	5.7	81.7	55.0	9.0	6.3	96.3	70.0	9.0	7.7	97.7	85.0
B23	8.3	6.7	83.3	60.0	9.0	7.7	99.0	78.3	9.0	8.3	97.7	90.0
CATALYST	8.0	6.7	85.0	65.0	8.7	7.3	94.7	78.3	9.0	9.0	96.0	91.7

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2015 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	BEFORE TRAFFIC ON APRIL 13-14				AFTER TRAFFIC IN SPRING (JUNE 4)				BEFORE TRAFFIC ON JULY 29			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
CROSSFIRE 4 (IS-TF 310 SEL)	7.7	6.3	78.3	58.3	9.0	7.0	96.3	71.7	9.0	8.0	96.3	88.3
DIABLO (IS-TF 330)	7.3	4.7	76.7	43.3	9.0	6.7	94.7	70.0	8.7	8.0	91.7	88.3
TRENDING (IS-TF 269 SEL)	7.3	5.3	76.7	50.0	9.0	7.3	93.3	75.0	8.7	7.7	91.7	86.7
IS-TF 272	7.3	4.3	76.7	45.0	9.0	5.3	93.3	60.0	8.3	8.0	94.7	83.3
STANDOUT (IS-TF 308 SEL)	8.0	6.0	81.7	53.3	9.0	6.3	96.3	63.3	9.0	8.0	96.3	88.3
MAESTRO (T31)	8.0	5.7	86.7	56.7	9.0	6.3	96.3	68.3	9.0	8.3	99.0	90.0
MET 1	8.0	6.0	88.3	53.3	9.0	6.7	96.3	66.7	9.0	8.0	99.0	93.3
SUPERSONIC (PPG-TF-170)	7.7	5.0	85.0	50.0	8.7	6.7	96.3	73.3	9.0	8.0	97.7	88.3
PSG-PO1	7.7	5.0	81.7	46.7	9.0	6.0	95.0	66.7	9.0	8.0	97.7	91.7
RAD-TF-83	7.0	5.0	73.3	51.7	9.0	6.3	93.3	63.3	8.3	7.3	91.7	83.3
CAESAR (TY 10)	7.3	5.3	78.3	50.0	8.0	6.3	91.7	68.3	8.7	7.7	93.3	86.7
FIREBIRD 2	8.0	6.3	85.0	56.7	9.0	6.3	97.7	70.0	9.0	8.0	99.0	88.3
GTO (BURL TF-2)	8.3	6.0	86.7	58.3	9.0	6.0	93.3	68.3	9.0	8.3	99.0	88.3
HOT ROD (BURL TF-136)	8.0	6.7	86.7	61.7	9.0	7.3	95.0	76.7	9.0	8.3	96.3	91.7
HOUNDOG8 (IS-TF 307 SEL)	7.7	5.0	78.3	45.0	9.0	6.0	95.0	70.0	9.0	8.3	96.3	86.7
INSPIRATION (PST-R5NW)	6.7	4.7	70.0	45.0	8.0	6.7	91.7	70.0	8.0	7.7	91.7	86.7
IS-TF 276 M2	7.0	4.3	76.7	45.0	9.0	6.7	90.0	66.7	8.3	8.0	91.7	85.0
MERIDIAN (PST-5GRB)	8.0	6.0	78.3	56.7	9.0	7.7	96.3	76.7	9.0	9.0	99.0	95.0
MET-3	7.3	5.3	80.0	46.7	8.7	6.3	91.7	68.3	8.7	8.0	96.3	90.0
PST-5MVD	8.0	5.3	83.3	51.7	9.0	6.3	91.7	68.3	9.0	8.0	91.7	85.0
RAIN DANCE (PST-5SDT)	7.3	6.0	81.7	58.3	8.0	6.7	90.0	68.3	8.7	8.0	91.7	85.0
SALTILLO (PST-5SALT)	8.0	5.7	80.0	50.0	8.7	6.0	91.7	66.7	9.0	8.3	96.3	91.7
TECHNIQUE (RZ2)	8.0	6.3	90.0	61.7	9.0	7.7	99.0	81.7	9.0	8.7	99.0	94.7
ATF 1754	8.3	5.7	85.0	55.0	9.0	6.7	93.3	66.7	9.0	8.3	96.3	86.7
FAYETTE (IS-TF 291)	8.0	5.7	85.0	53.3	9.0	7.7	96.3	81.7	9.0	8.7	95.0	90.0
JS 809	6.7	5.3	68.3	46.7	8.3	5.7	91.7	61.7	8.7	8.0	91.7	86.7
PPG-TF-138	7.3	5.7	80.0	58.3	9.0	6.7	95.0	68.3	9.0	8.0	99.0	88.3
ROWDY (SRX-TPC)	8.0	6.0	81.7	53.3	9.0	7.3	96.3	73.3	9.0	8.3	97.7	91.7
SWAGGER (PST-5RO5)	7.7	5.0	76.7	48.3	9.0	7.0	93.3	71.7	8.7	8.3	96.3	88.3
TURFWAY (IS-TF 282 M2)	8.0	5.3	78.3	51.7	8.3	5.7	91.7	63.3	8.7	8.0	91.7	85.0
AVENGER II (PPG-TF-156)	8.3	6.3	86.7	66.7	9.0	7.3	97.7	75.0	9.0	8.3	99.0	93.3
FESNOVA	8.0	5.0	78.3	55.0	8.7	6.3	91.7	65.0	9.0	7.7	96.3	86.7
FOXHOUND (IS-TF 284 M2)	7.7	5.0	78.3	45.0	8.7	6.7	93.3	65.0	8.7	7.7	96.3	85.0
FRONTLINE (EXP TF-09)	6.3	4.3	73.3	41.7	8.0	6.3	86.7	61.7	8.0	7.7	85.0	83.3
JS 818	6.7	3.7	71.7	38.3	8.7	7.0	91.7	66.7	8.7	8.0	91.7	85.0
LEONARDO (LTP-FSD)	7.7	5.0	83.3	51.7	9.0	7.0	96.3	75.0	8.7	8.0	94.3	88.3
PSG-TT4	7.3	5.0	78.3	46.7	8.0	6.0	88.3	66.7	8.3	7.7	90.0	83.3
REGENERATE	8.0	6.3	86.7	60.0	9.0	6.3	96.3	73.3	9.0	9.0	99.0	95.0
RHIZING MOON (IS-TF 305 SEL)	7.7	5.3	73.3	45.0	9.0	6.7	91.7	65.0	9.0	8.0	91.7	85.0
TERRANO	7.0	4.0	71.7	38.3	9.0	6.7	91.7	65.0	8.7	7.7	95.0	88.3
204 RES. BLK4	7.7	5.0	76.7	45.0	8.7	5.7	95.0	61.7	9.0	8.3	94.7	86.7
AQUADUCT	7.3	5.3	75.0	50.0	8.0	6.7	90.0	70.0	8.3	7.7	88.3	88.3
VERT (ATF 1612)	8.0	5.7	86.7	55.0	9.0	7.3	97.7	76.7	9.0	9.0	97.7	91.7
REBEL V (ATF 1736)	8.0	5.7	83.3	51.7	8.3	6.7	93.3	66.7	9.0	8.0	95.0	86.7

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2015 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	BEFORE TRAFFIC ON APRIL 13-14				AFTER TRAFFIC IN SPRING (JUNE 4)				BEFORE TRAFFIC ON JULY 29			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
BAR FA 121095	7.0	5.3	76.7	51.7	8.0	5.3	93.3	56.7	8.3	7.3	96.3	80.0
THOR (PPG-TF-157)	8.0	5.0	85.0	45.0	9.0	6.3	93.3	66.7	9.0	7.7	96.3	83.3
W41	8.0	5.3	81.7	55.0	9.0	7.0	96.3	75.0	9.0	8.3	99.0	88.3
ANNIHILATOR	7.3	5.0	73.3	48.3	8.3	6.7	88.3	66.7	8.0	7.7	83.3	78.3
FIREWALL (PSG-WE1)	8.3	6.0	86.7	55.0	8.7	7.3	96.0	76.7	9.0	8.0	96.0	90.0
BAR FA 121091	7.0	3.3	73.3	35.0	8.0	5.7	90.0	65.0	8.0	7.0	88.3	86.7
BLOODHOUND (MET 6 SEL)	8.3	5.3	83.3	51.7	9.0	7.0	96.3	70.0	9.0	8.3	95.0	90.0
DYNAMITE LS (PPG-TF-145)	6.7	4.7	75.0	46.7	8.7	6.0	91.7	68.3	8.7	7.7	96.0	86.7
JS 819	6.3	5.0	66.7	46.7	8.3	6.3	91.7	68.3	8.3	7.7	91.7	81.7
JS 825	5.7	2.7	58.3	31.7	8.0	6.3	83.3	61.7	8.0	7.7	85.0	80.0
PST-5DZP	7.0	5.3	75.0	46.7	9.0	6.0	91.7	66.7	8.7	8.0	96.3	88.3
UNITUS (IS-TF 289)	7.0	5.3	76.7	50.0	9.0	7.0	95.0	75.0	8.3	8.0	95.0	88.3
WICHITA (PPG-TF-151)	7.7	5.0	83.3	48.3	8.3	6.3	93.3	65.0	9.0	7.7	93.3	86.7
ARES (PPG-TF-142)	7.0	5.0	73.3	48.3	9.0	5.3	91.7	55.0	8.7	7.3	91.7	80.0
BAR FA 121089	6.7	4.7	73.3	50.0	8.0	5.7	88.3	53.3	8.0	6.7	86.7	78.3
FAITH	8.0	5.0	81.7	48.3	8.7	6.3	95.0	70.0	8.7	8.0	96.3	90.0
FALCON IV	7.3	5.3	78.3	48.3	8.3	6.7	91.7	60.0	8.7	7.3	90.0	85.0
K12-05	7.0	4.3	75.0	43.3	8.7	6.0	94.7	60.0	9.0	7.7	96.3	83.3
PPG-TF-115	7.0	5.0	75.0	46.7	8.7	6.3	93.3	66.7	8.7	7.3	91.7	85.0
BAR FA 120878	5.3	4.0	63.3	45.0	6.7	5.0	71.7	51.7	7.0	6.0	80.0	71.7
MARAUDER	7.3	4.7	73.3	41.7	8.0	5.3	90.0	60.0	7.7	6.7	85.0	78.3
TEMPTATION (OR-21)	7.3	4.3	73.3	41.7	8.3	5.0	90.0	58.3	8.7	7.3	91.7	81.7
FALCON V	9.0	6.3	86.7	58.3	9.0	7.3	93.3	75.0	9.0	8.0	97.7	91.7
PARAMOUNT (PPG-TF-137)	8.3	6.0	86.7	60.0	9.0	6.0	99.0	73.3	9.0	8.3	99.0	91.7
THUNDERSTRUCK (TD1)	6.3	4.7	68.3	43.3	9.0	5.3	91.7	56.7	8.7	7.7	93.0	85.0
WARHAWK	7.0	4.7	68.3	46.7	7.7	5.7	85.0	65.0	7.7	7.0	86.7	80.0
AMITY (CCR2)	8.3	5.7	86.7	50.0	9.0	5.3	95.0	56.7	9.0	8.3	97.7	88.3
KY-31	5.3	2.3	53.3	23.3	6.0	4.0	61.7	41.7	7.0	5.7	76.7	66.7
LSD VALUE	0.7	1.3	6.1	17.3	0.5	1.5	4.2	12.1	0.6	1.0	5.0	6.4
C.V. (%)	6.0	14.2	5.0	16.4	3.9	12.5	3.0	10.0	3.9	7.0	3.4	4.4

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 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2015 DATA
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 18)				BEFORE TRAFFIC ON SEPTEMBER 15				AFTER TRAFFIC IN FALL (NOVEMBER 4)			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
TEMPLE (DZ1)	9.0	7.0	95.0	73.3	9.0	7.0	95.0	70.0	9.0	7.3	95.0	71.7
EMBRACE (PST-5EV2)	9.0	6.3	97.7	70.0	8.7	6.7	89.3	68.3	8.7	6.7	93.0	70.0
HEMI	8.7	7.0	91.7	73.3	8.3	7.7	83.3	71.7	8.7	6.3	86.7	70.0
REFLECTION (U45)	9.0	7.3	94.7	78.3	9.0	8.7	90.0	75.0	9.0	6.7	96.3	70.0
TRINITY (BIZEM)	9.0	6.3	94.7	70.0	9.0	8.0	96.3	73.3	9.0	6.7	94.7	68.3
IS-TF-287	9.0	7.7	94.7	75.0	8.7	8.0	88.3	75.0	8.7	6.3	93.3	68.3
K12-13	8.3	5.7	86.7	58.3	9.0	6.3	91.7	63.3	9.0	7.0	90.0	68.3
PSG-8BP2	8.3	6.0	85.0	61.7	8.0	6.3	84.7	63.3	8.3	7.0	90.0	68.3
PST-5BPO	8.7	6.7	90.0	71.7	8.7	8.0	88.3	75.0	8.0	6.7	88.3	68.3
COMP. RES. SST	8.3	6.0	90.0	66.7	8.3	7.3	83.3	73.3	8.7	6.7	90.0	66.7
HOVER (BURL TF-69)	8.7	6.0	91.3	70.0	8.7	6.3	86.7	70.0	8.7	6.0	93.3	66.7
VALKYRIE LS (PPG-TF-172)	9.0	7.3	97.7	80.0	8.7	7.7	84.7	71.7	9.0	7.0	94.7	66.7
RAD-TF-89	9.0	7.0	93.3	78.3	8.7	6.7	91.3	71.7	8.7	6.7	90.0	66.7
RAPTOR III (ZW 44)	8.7	7.0	93.0	76.7	8.3	7.3	83.3	75.0	8.7	6.7	93.3	66.7
RHAMBLER 2 SRP (LSD)	9.0	7.0	94.7	76.7	8.7	7.3	94.7	81.7	9.0	6.7	93.3	66.7
XTENDER (PPG-TF-139)	8.7	6.3	91.7	68.3	8.3	7.3	90.0	75.0	8.7	6.7	88.3	66.7
IS-TF 311	8.7	7.3	94.3	78.3	8.0	6.7	79.7	70.0	7.7	6.3	83.3	65.0
K12-MCD	9.0	6.3	93.0	66.7	9.0	7.3	96.3	73.3	9.0	6.7	91.7	65.0
MEMPHIS (GO-DFR)	8.3	5.3	91.7	56.7	8.7	6.3	88.3	63.3	8.7	6.7	90.0	65.0
PPG-TF-135	9.0	7.7	94.7	80.0	8.7	7.0	86.7	66.7	8.7	5.7	91.7	65.0
PSG-GSD	8.7	6.0	90.0	65.0	8.7	8.0	93.0	76.7	8.3	7.0	93.3	65.0
PST-5BRK	8.7	6.0	90.0	66.7	9.0	6.7	93.3	75.0	8.0	5.3	86.7	65.0
SCREAMER LS (PPG-TF-148)	8.7	6.7	95.0	70.0	8.3	6.3	86.7	68.3	9.0	6.0	93.3	65.0
4TH MILLENNIUM SRP (U43)	9.0	7.0	94.7	75.0	9.0	7.7	93.0	76.7	9.0	7.0	94.7	63.3
ATF 1704	9.0	7.3	94.7	80.0	9.0	7.7	93.3	75.0	8.3	6.0	93.3	63.3
BULLSEYE	9.0	7.0	91.7	68.3	8.7	7.7	91.3	71.7	8.3	5.3	93.0	63.3
F711	9.0	7.0	96.3	78.3	9.0	8.0	96.3	66.7	9.0	6.7	95.0	63.3
FIRECRACKER SLS (PPG-TF-105)	8.7	6.3	97.7	66.7	9.0	6.3	94.7	68.3	9.0	6.3	95.0	63.3
JS 916	8.7	6.7	96.0	71.7	8.7	7.3	91.7	71.7	8.3	6.3	91.7	63.3
MICHELANGELO (LTP-F5DPDR)	8.7	6.0	93.3	63.3	8.7	6.3	91.7	68.3	8.7	6.3	90.0	63.3
OLYMPUS (RAD-TF-88)	9.0	6.0	94.7	68.3	8.7	7.3	91.7	75.0	8.7	6.3	96.3	63.3
RAD-TF-92	9.0	7.7	94.7	75.0	9.0	8.3	94.7	83.3	8.7	6.7	91.7	63.3
REBOUNDER (PICK-W43)	8.7	5.7	91.7	63.3	9.0	7.7	91.3	76.7	9.0	6.7	95.0	63.3
ROCKWELL (LTP-TWUU)	9.0	6.7	91.7	66.7	9.0	7.3	96.0	73.3	9.0	6.3	95.0	63.3
TRAVERSE 2 SRP (W45)	9.0	6.3	94.7	68.3	8.7	7.0	91.3	75.0	9.0	7.0	94.7	63.3
BLACK TAIL (PPG-TF-150)	9.0	6.0	90.0	61.7	8.7	7.3	91.7	70.0	9.0	5.3	95.0	61.7
GRANDE 3	8.3	5.7	90.0	61.7	7.3	6.7	83.3	68.3	8.7	5.3	93.3	61.7
KINGDOM (DB1)	8.3	6.0	93.3	65.0	9.0	7.3	94.7	68.3	8.7	6.3	93.3	61.7
NIGHTCRAWLER (IS-TF 285)	8.7	6.3	91.7	63.3	9.0	6.7	88.3	68.3	9.0	6.0	91.7	61.7
PPG-TF-169	8.7	5.7	93.3	63.3	8.3	6.0	83.3	53.3	8.3	5.3	90.0	61.7
PST-5EX2	8.3	7.0	88.3	68.3	8.3	8.0	90.0	73.3	8.3	6.3	83.3	61.7
TITANIUM 2LS (PPG-TF-152)	9.0	5.7	97.7	65.0	9.0	5.7	93.0	60.0	9.0	6.3	96.3	61.7
B23	9.0	8.3	96.3	83.3	8.7	7.0	93.3	78.3	9.0	6.3	95.0	60.0
CATALYST	9.0	7.0	94.7	76.7	9.0	7.3	90.0	70.0	9.0	6.0	93.3	60.0
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	6.3	93.3	66.7	8.7	6.7	89.7	66.7	8.7	5.7	95.0	60.0

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2015 DATA

TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 18)				BEFORE TRAFFIC ON SEPTEMBER 15				AFTER TRAFFIC IN FALL (NOVEMBER 4)			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DIABLO (IS-TF 330)	9.0	7.0	94.7	75.0	8.0	6.3	86.3	71.7	8.7	7.0	90.0	60.0
TRENDING (IS-TF 269 SEL)	9.0	6.7	95.0	75.0	8.7	7.3	90.0	76.7	8.3	5.7	83.3	60.0
IS-TF 272	7.7	5.0	90.0	55.0	7.0	6.7	75.0	60.0	8.0	5.3	86.7	60.0
STANDOUT (IS-TF 308 SEL)	9.0	6.7	91.7	68.3	8.3	7.3	91.3	68.3	8.3	6.3	88.3	60.0
MAESTRO (T31)	8.7	6.7	96.0	71.7	8.3	6.0	81.3	63.3	8.7	6.3	88.3	60.0
MET 1	9.0	6.0	94.7	65.0	8.7	7.0	91.7	66.7	8.7	6.3	90.0	60.0
SUPERSONIC (PPG-TF-170)	9.0	6.7	95.0	71.7	8.3	6.3	86.7	70.0	8.7	6.3	90.0	60.0
PSG-PO1	8.3	4.7	86.7	56.7	8.7	5.3	90.0	55.0	8.7	4.7	93.3	60.0
RAD-TF-83	8.3	5.3	83.3	55.0	8.3	6.7	85.0	68.3	8.3	5.0	88.3	60.0
CAESAR (TY 10)	9.0	6.3	90.0	61.7	8.7	6.0	88.3	60.0	8.7	6.0	90.0	58.3
FIREBIRD 2	9.0	6.0	93.0	66.7	8.7	7.0	91.3	63.3	8.7	6.3	90.0	58.3
GTO (BURL TF-2)	8.3	6.3	93.0	68.3	7.7	6.7	76.3	65.0	8.3	6.0	88.3	58.3
HOT ROD (BURL TF-136)	9.0	6.7	90.0	68.3	8.3	7.0	88.0	66.7	8.0	5.7	86.7	58.3
HOUNDOG8 (IS-TF 307 SEL)	9.0	5.7	96.3	68.3	9.0	6.3	93.3	60.0	9.0	5.3	88.3	58.3
INSPIRATION (PST-R5NW)	8.0	6.3	90.0	71.7	8.3	7.3	81.7	63.3	8.0	5.0	85.0	58.3
IS-TF 276 M2	8.7	6.3	91.7	60.0	8.7	7.3	85.0	70.0	8.3	5.7	88.3	58.3
MERIDIAN (PST-5GRB)	9.0	8.0	96.3	81.7	8.7	8.3	94.3	83.3	8.3	6.0	89.7	58.3
MET-3	9.0	6.0	91.7	63.3	8.3	6.7	85.0	66.7	8.7	6.0	90.0	58.3
PST-5MVD	9.0	6.3	93.3	65.0	9.0	7.0	95.0	70.0	8.3	5.3	88.3	58.3
RAIN DANCE (PST-5SDT)	9.0	6.7	95.0	70.0	8.7	7.3	88.3	73.3	8.0	5.7	86.7	58.3
SALTILLO (PST-5SALT)	9.0	7.0	94.7	66.7	9.0	7.3	93.3	78.3	8.3	6.0	90.0	58.3
TECHNIQUE (RZ2)	9.0	7.3	91.3	76.7	8.0	7.0	86.3	71.7	8.7	6.3	94.7	58.3
ATF 1754	9.0	5.3	91.7	55.0	8.7	6.3	86.7	58.3	8.7	5.3	90.0	56.7
FAYETTE (IS-TF 291)	8.7	8.0	95.0	83.3	8.7	8.3	94.7	76.7	9.0	6.7	90.0	56.7
JS 809	8.7	5.7	91.3	61.7	8.3	6.0	90.0	66.7	8.7	6.7	88.3	56.7
PPG-TF-138	8.7	6.3	91.7	63.3	8.0	5.7	80.0	58.3	8.3	5.7	86.7	56.7
ROWDY (SRX-TPC)	9.0	6.7	95.0	70.0	9.0	7.0	96.3	78.3	9.0	6.0	96.0	56.7
SWAGGER (PST-5RO5)	8.7	6.7	93.3	68.3	8.7	7.7	96.3	75.0	8.7	5.0	90.0	56.7
TURFWAY (IS-TF 282 M2)	9.0	5.7	93.3	61.7	9.0	6.3	93.3	61.7	9.0	6.3	93.3	56.7
AVENGER II (PPG-TF-156)	9.0	7.7	99.0	83.3	8.7	7.7	91.3	70.0	8.7	5.3	90.0	55.0
FESNOVA	9.0	6.0	88.3	61.7	9.0	7.0	93.3	66.7	8.3	5.7	90.0	55.0
FOXHOUND (IS-TF 284 M2)	8.7	6.3	88.3	66.7	8.3	7.3	85.0	71.7	9.0	6.3	90.0	55.0
FRONTLINE (EXP TF-09)	7.3	4.3	78.3	46.7	6.7	5.3	76.7	61.7	7.7	4.7	86.7	55.0
JS 818	9.0	5.7	91.7	61.7	8.7	7.0	95.0	63.3	8.7	5.3	90.0	55.0
LEONARDO (LTP-FSD)	9.0	6.0	93.3	70.0	9.0	7.7	94.7	73.3	8.7	5.7	90.0	55.0
PSG-TT4	8.3	5.7	86.7	61.7	8.3	6.7	86.7	63.3	7.7	4.7	83.3	55.0
REGENERATE	9.0	8.0	91.7	81.7	7.7	7.0	81.7	73.3	9.0	6.0	93.3	55.0
RHIZING MOON (IS-TF 305 SEL)	8.7	5.7	91.3	63.3	8.0	6.3	86.7	65.0	8.3	6.0	80.0	55.0
TERRANO	9.0	5.7	91.7	60.0	9.0	6.7	95.0	66.7	9.0	5.0	90.0	55.0
204 RES. BLK4	8.7	4.3	88.3	51.7	8.3	5.7	90.0	63.3	9.0	5.0	91.3	53.3
AQUADUCT	7.7	6.0	81.7	61.7	8.0	7.0	83.3	66.7	8.3	6.0	85.0	53.3
VERT (ATF 1612)	9.0	7.7	93.3	76.7	8.3	7.3	90.0	65.0	8.7	5.3	91.7	53.3
REBEL V (ATF 1736)	9.0	5.3	91.7	53.3	8.7	6.3	88.3	58.3	8.3	5.3	90.0	53.3
BAR FA 121095	8.7	5.7	93.3	60.0	9.0	6.3	85.0	61.7	8.7	5.0	86.7	53.3

TABLE 10.
(CONT'D)

PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2015 DATA
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ */

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 18)				BEFORE TRAFFIC ON SEPTEMBER 15				AFTER TRAFFIC IN FALL (NOVEMBER 4)			
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
THOR (PPG-TF-157)	9.0	6.0	93.0	66.7	9.0	7.0	93.3	60.0	9.0	4.7	91.7	53.3
W41	9.0	6.7	94.7	70.0	8.3	7.0	84.7	61.7	8.7	5.0	90.0	53.3
ANNIHILATOR	8.3	5.7	81.7	58.3	8.3	6.7	83.3	68.3	8.0	4.7	86.7	51.7
FIREWALL (PSG-WE1)	8.3	6.0	91.3	66.7	6.7	5.7	71.7	60.0	7.0	5.0	76.7	51.7
BAR FA 121091	8.0	6.3	83.0	65.0	8.0	7.0	81.7	73.3	8.3	5.3	85.0	50.0
BLOODHOUND (MET 6 SEL)	9.0	5.7	97.7	63.3	9.0	6.0	96.3	61.7	9.0	5.0	94.7	50.0
DYNAMITE LS (PPG-TF-145)	8.3	5.3	93.3	53.3	8.7	6.0	93.0	61.7	9.0	5.7	86.7	50.0
JS 819	7.7	5.0	81.7	58.3	7.7	6.0	76.7	65.0	8.0	5.3	83.3	50.0
JS 825	7.7	5.3	85.0	61.7	7.7	6.0	86.7	61.7	8.0	5.0	81.7	50.0
PST-5DZP	9.0	5.3	91.7	60.0	8.3	6.0	85.0	63.3	8.0	4.7	85.0	50.0
UNITUS (IS-TF 289)	8.7	6.0	91.7	65.0	8.0	6.7	81.3	61.7	8.0	5.0	85.0	50.0
WICHITA (PPG-TF-151)	9.0	5.7	93.3	65.0	9.0	6.3	94.7	65.0	9.0	4.7	93.3	50.0
ARES (PPG-TF-142)	8.7	5.3	90.0	56.7	8.3	6.0	86.7	65.0	8.7	5.3	88.3	48.3
BAR FA 121089	8.3	4.3	86.7	48.3	8.3	6.0	86.7	60.0	8.3	4.3	90.0	48.3
FAITH	8.0	5.0	88.3	56.7	6.7	6.3	68.3	56.7	7.7	4.7	78.3	48.3
FALCON IV	8.3	5.7	88.3	56.7	8.0	6.3	86.7	68.3	8.3	4.3	85.0	48.3
K12-05	9.0	6.3	96.3	68.3	8.7	6.3	95.0	65.0	9.0	5.3	93.3	48.3
PPG-TF-115	8.3	6.0	93.0	61.7	8.0	7.3	80.0	60.0	8.0	5.3	85.0	48.3
BAR FA 120878	7.0	5.3	65.0	50.0	6.3	5.7	65.0	55.0	7.0	4.7	71.7	46.7
MARAUDER	8.0	4.7	86.7	48.3	8.3	5.7	88.0	55.0	8.3	4.0	90.0	46.7
TEMPTATION (OR-21)	8.0	4.0	85.0	45.0	7.3	4.7	76.7	45.0	8.0	4.3	83.3	46.7
FALCON V	9.0	6.3	91.7	68.3	8.3	4.7	90.0	53.3	8.3	4.7	91.7	43.3
PARAMOUNT (PPG-TF-137)	8.7	6.0	93.0	63.3	8.3	6.0	90.0	58.3	8.3	4.3	90.0	43.3
THUNDERSTRUCK (TD1)	9.0	4.0	91.7	50.0	8.3	4.7	88.0	50.0	8.0	4.7	86.7	43.3
WARHAWK	7.7	4.7	78.3	50.0	8.0	6.0	80.0	60.0	8.3	3.7	81.7	41.7
AMITY (CCR2)	9.0	5.3	91.7	55.0	8.3	5.0	88.0	50.0	8.7	4.0	88.3	40.0
KY-31	6.0	4.0	58.3	36.7	5.7	5.0	63.3	46.7	6.0	3.3	61.7	31.7
LSD VALUE	0.8	2.4	9.2	20.1	2.3	2.3	38.9	28.0	1.7	2.7	13.4	29.7
C.V. (%)	5.6	18.4	5.9	15.8	10.3	15.7	11.9	15.9	8.0	20.0	7.1	18.6

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 11. PERCENT LIVING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN UNDER TRAFFIC STRESS AT UNIVERSITY PARK, PA 2/
2014-15 DATA

NAME	BEFORE	TRAFFIC	AFTER	PREWEAR	WEAR	POST WEAR
	TRAFFIC		TRAFFIC			
	9_4	9_4	11_1	8_25	8_25	11_6
BULLSEYE	98.3	98.7	86.0	99	99	80.0
IS-TF 276 M2	99.0	98.0	89.3	99	99	80.0
NIGHTCRAWLER (IS-TF 285)	99.0	99.0	84.3	99	99	80.0
RHAMBLER 2 SRP (LSD)	99.0	99.0	91.7	99	99	80.0
ARES (PPG-TF-142)	98.7	99.0	81.7	99	99	78.3
HOT ROD (BURL TF-136)	99.0	85.7	91.3	99	99	78.3
IS-TF 272	98.3	99.0	85.3	99	99	78.3
IS-TF-287	99.0	99.0	85.0	99	99	78.3
K12-MCD	98.7	99.0	91.0	99	99	78.3
RAD-TF-92	97.7	97.3	81.7	99	99	78.3
ATF 1754	98.7	99.0	90.3	99	99	76.7
FAITH	99.0	99.0	86.0	99	99	76.7
GTO (BURL TF-2)	99.0	98.0	91.0	99	99	76.7
HEMI	99.0	99.0	91.3	99	99	76.7
INSPIRATION (PST-R5NW)	99.0	99.0	89.3	99	99	76.7
PARAMOUNT (PPG-TF-137)	99.0	99.0	91.7	99	99	76.7
RAIN DANCE (PST-5SDT)	99.0	99.0	86.0	99	99	76.7
REBEL V (ATF 1736)	99.0	99.0	91.0	99	99	76.7
TECHNIQUE (RZ2)	99.0	97.3	93.0	99	99	76.7
AQUADUCT	99.0	99.0	87.7	99	99	75.0
ATF 1704	99.0	99.0	92.7	99	99	75.0
CATALYST	98.7	98.7	88.7	99	99	75.0
FIREBIRD 2	97.7	97.3	88.0	99	99	75.0
FIRECRACKER SLS (PPG-TF-105)	99.0	99.0	86.0	99	99	75.0
MET-3	99.0	99.0	76.7	99	99	75.0
PPG-TF-138	99.0	98.7	88.0	99	99	75.0
PSG-PO1	98.7	99.0	83.3	99	99	75.0
PST-5EX2	99.0	97.7	91.0	99	99	75.0
RAD-TF-89	96.7	98.0	86.0	99	99	75.0
RAPTOR III (ZW 44)	99.0	99.0	91.0	99	99	75.0
ROWDY (SRX-TPC)	99.0	99.0	88.3	99	99	75.0
STANDOUT (IS-TF 308 SEL)	99.0	98.7	85.0	99	99	75.0
THOR (PPG-TF-157)	99.0	99.0	89.3	99	99	75.0
TITANIUM 2LS (PPG-TF-152)	99.0	99.0	85.0	99	99	75.0
UNITUS (IS-TF 289)	99.0	99.0	89.3	99	99	75.0
VALKYRIE LS (PPG-TF-172)	99.0	98.7	84.7	99	99	75.0
B23	97.7	96.7	78.3	99	99	73.3
BAR FA 121095	96.0	95.7	84.3	99	99	73.3
EMBRACE (PST-5EV2)	99.0	99.0	91.0	99	99	73.3
FALCON IV	99.0	98.7	78.3	99	99	73.3
FAYETTE (IS-TF 291)	99.0	99.0	89.3	99	99	73.3
GRANDE 3	99.0	98.7	86.7	99	99	73.3
HOUNDOG8 (IS-TF 307 SEL)	99.0	99.0	88.3	99	99	73.3
IS-TF 311	99.0	99.0	86.0	99	99	73.3
JS 819	98.0	97.0	82.7	99	99	73.3
K12-05	98.3	93.0	81.0	99	99	73.3
MERIDIAN (PST-5GRB)	99.0	99.0	92.7	99	99	73.3

TABLE 11. PERCENT LIVING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/
 (CONT'D) GROWN UNDER TRAFFIC STRESS AT UNIVERSITY PARK, PA 2/
 2014-15 DATA

NAME	BEFORE	TRAFFIC	AFTER	PREWEAR	WEAR	POST WEAR
	TRAFFIC		TRAFFIC			
	9_4	9_4	11_1	8_25	8_25	11_6
PSG-GSD	98.7	98.0	86.0	99	99	73.3
PSG-TT4	99.0	98.0	85.0	99	99	73.3
PST-5DZP	99.0	99.0	87.7	99	99	73.3
REBOUNDER (PICK-W43)	98.7	98.0	86.0	99	99	73.3
BAR FA 120878	98.3	95.0	80.0	99	99	71.7
BLOODHOUND (MET 6 SEL)	99.0	98.0	90.3	99	99	71.7
COMP. RES. SST	98.7	95.3	84.3	99	99	71.7
FALCON V	97.7	99.0	86.0	99	99	71.7
JS 825	98.3	98.0	87.7	99	99	71.7
JS 916	99.0	99.0	87.7	99	99	71.7
KINGDOM (DB1)	98.3	97.7	85.0	99	99	71.7
LEONARDO (LTP-FSD)	99.0	98.7	87.7	99	99	71.7
OLYMPUS (RAD-TF-88)	98.7	98.7	84.3	99	99	71.7
PPG-TF-169	99.0	97.7	85.0	99	99	71.7
PSG-8BP2	99.0	99.0	82.7	99	99	71.7
PST-5BRK	99.0	98.7	86.3	99	99	71.7
SALTILLO (PST-5SALT)	99.0	99.0	84.3	99	99	71.7
SWAGGER (PST-5RO5)	99.0	99.0	84.3	99	99	71.7
THUNDERSTRUCK (TD1)	97.7	98.7	87.7	99	99	71.7
W41	99.0	99.0	85.3	99	99	71.7
XTENDER (PPG-TF-139)	99.0	99.0	88.7	99	99	71.7
4TH MILLENNIUM SRP (U43)	99.0	98.3	85.0	99	99	70.0
AMITY (CCR2)	99.0	98.7	88.7	99	99	70.0
ANNIHILATOR	99.0	97.0	85.0	99	99	70.0
BAR FA 121091	94.7	91.0	76.7	99	99	70.0
F711	99.0	99.0	91.0	99	99	70.0
FIREWALL (PSG-WE1)	98.3	98.3	83.3	99	99	70.0
FOXHOUND (IS-TF 284 M2)	98.3	99.0	80.0	99	99	70.0
FRONTLINE (EXP TF-09)	99.0	97.5	84.5	99	99	70.0
MEMPHIS (GO-DFR)	99.0	98.3	86.0	99	99	70.0
MET 1	99.0	99.0	88.0	99	99	70.0
PPG-TF-115	98.0	99.0	82.0	99	99	70.0
PST-5MVD	99.0	98.7	87.7	99	99	70.0
REFLECTION (U45)	98.0	99.0	88.0	99	99	70.0
RHIZING MOON (IS-TF 305 SEL)	99.0	99.0	79.3	99	99	70.0
SCREAMER LS (PPG-TF-148)	99.0	99.0	91.5	99	99	70.0
SUPERSONIC (PPG-TF-170)	98.7	98.3	86.3	99	99	70.0
TEMPLE (DZ1)	99.0	98.7	85.3	99	99	70.0
TRAVERSE 2 SRP (W45)	99.0	99.0	91.5	99	99	70.0
TRINITY (BIZEM)	99.0	99.0	76.7	99	99	70.0
DIABLO (IS-TF 330)	99.0	99.0	85.0	99	99	68.3
DYNAMITE LS (PPG-TF-145)	98.7	98.3	84.3	99	99	68.3
JS 809	99.0	97.7	76.7	99	99	68.3
JS 818	97.3	98.3	86.0	99	99	68.3
PPG-TF-135	99.0	92.0	86.7	99	99	68.3
TRENDING (IS-TF 269 SEL)	98.3	99.0	91.7	99	99	68.3
TURFWAY (IS-TF 282 M2)	99.0	98.7	81.7	99	99	68.3

TABLE 11. PERCENT LIVING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) GROWN UNDER TRAFFIC STRESS AT UNIVERSITY PARK, PA 2/
2014-15 DATA

NAME	BEFORE		AFTER			
	TRAFFIC	TRAFFIC	TRAFFIC	PREWEAR	WEAR	POST WEAR
	9_4	9_4	11_1	8_25	8_25	11_6
WARHAWK	99.0	98.0	86.0	99	99	68.3
BAR FA 121089	97.0	97.0	79.0	99	99	67.5
RAD-TF-83	98.3	94.0	78.3	99	99	67.5
MARAUDER	99.0	96.7	82.7	99	99	66.7
REGENERATE	99.0	96.0	83.7	99	99	66.7
TERRANO	98.0	98.7	74.3	99	99	66.7
CAESAR (TY 10)	97.0	98.0	79.0	99	99	65.0
CROSSFIRE 4 (IS-TF 310 SEL)	99.0	98.3	76.0	99	99	65.0
HOVER (BURL TF-69)	98.3	98.3	81.0	99	99	65.0
TEMPTATION (OR-21)	99.0	97.5	86.5	99	99	65.0
WICHITA (PPG-TF-151)	99.0	98.5	79.0	99	99	65.0
204 RES. BLK4	99.0	92.0	74.3	99	99	63.3
AVENGER II (PPG-TF-156)	99.0	97.3	79.3	99	99	63.3
BLACK TAIL (PPG-TF-150)	99.0	95.0	71.0	99	99	63.3
FESNOVA	97.3	97.7	77.0	99	99	63.3
PST-5BP0	99.0	89.3	73.3	99	99	63.3
ROCKWELL (LTP-TWUU)	99.0	98.7	72.0	99	99	63.3
VERT (ATF 1612)	98.7	97.7	80.0	99	99	63.3
MAESTRO (T31)	99.0	92.7	69.3	99	99	61.7
MICHELANGELO (LTP-F5DPDR)	99.0	96.3	69.3	99	99	60.0
K12-13	97.7	80.0	60.7	99	99	53.3
KY-31	98.7	90.7	60.0	99	99	41.7
LSD VALUE	2.1	10.4	19.5	0	0	17.2
C.V. (%)	0.9	4.0	9.8	0	0	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 12.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
 2013 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS AFTER TRAFFIC APPLICATIONS					
		QUALITY PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	2_MONTH DEC_17
BULLSEYE	7.3	9.0	8.7	8.0	8.3	8.0	6.0
FALCON IV	7.3	8.3	8.7	8.0	8.3	8.7	6.0
GRANDE 3	7.0	8.7	8.3	7.7	8.0	8.3	6.0
HEMI	7.7	8.7	8.3	8.0	8.0	8.3	6.0
UNITUS (IS-TF 289)	7.0	9.0	9.0	7.7	8.0	8.3	6.0
IS-TF 305 SEL	8.3	9.0	9.0	7.7	8.0	8.3	6.0
STANDOUT (IS-TF 308 SEL)	7.3	9.0	8.3	7.3	8.0	8.3	6.0
CROSSFIRE 4 (IS-TF 310 SEL)	7.0	9.0	8.7	8.3	8.0	8.3	6.0
DIABLO (IS-TF 330)	7.0	9.0	9.0	8.0	8.0	8.0	6.0
PPG-TF-115	6.7	8.3	8.7	8.0	8.3	8.7	6.0
ARES (PPG-TF-142)	8.0	9.0	8.7	7.3	7.7	8.3	6.0
DYNAMITE LS (PPG-TF-145)	7.7	9.0	8.3	7.3	8.0	8.7	6.0
AVENGER II (PPG-TF-156)	6.0	9.0	8.0	7.7	8.0	8.7	6.0
PSG-8BP2	7.0	8.7	8.7	7.7	7.3	8.0	6.0
PSG-PO1	7.3	8.7	8.0	7.7	7.7	8.3	6.0
FIREWALL (PSG-WE1)	6.3	9.0	8.7	8.0	8.3	8.7	6.0
PST-5DZP	6.7	8.7	8.3	7.7	7.7	8.3	6.0
RAIN DANCE (PST-5SDT)	5.7	8.0	8.3	7.0	7.3	7.7	6.0
SALTILLO (PST-5SALT)	6.7	8.7	8.3	8.0	8.0	8.0	6.0
ROWDY (SRX-TPC)	6.3	9.0	8.7	7.7	8.0	8.3	6.0
TEMPTATION (OR-21)	8.0	9.0	9.0	7.7	8.3	8.7	6.0
WARHAWK	7.0	8.0	9.0	7.7	8.7	9.0	6.0
AQUADUCT	6.3	8.0	8.3	7.7	8.0	8.0	5.7
VERT (ATF 1612)	6.7	9.0	8.3	7.7	7.7	8.3	5.7
ATF 1704	6.3	8.7	8.3	7.0	7.7	8.0	5.7
ATF 1754	6.7	8.7	8.3	8.0	7.7	8.0	5.7
B23	7.7	9.0	8.3	7.3	7.3	8.0	5.7
BAR FA 120878	4.7	8.0	8.0	7.3	7.7	8.3	5.7
TRINITY (BIZEM)	7.0	9.0	8.0	7.7	7.7	8.0	5.7
HOVER (BURL TF-69)	7.3	8.0	8.7	7.3	8.0	8.3	5.7
AMITY (CCR2)	6.7	9.0	8.0	7.3	7.7	8.0	5.7
FAITH	6.7	9.0	8.3	8.0	8.0	8.7	5.7
FALCON V	7.3	8.7	8.3	7.7	8.3	8.7	5.7
FIREBIRD 2	7.7	9.0	8.3	7.7	7.7	8.3	5.7
MEMPHIS (GO-DFR)	8.0	8.7	8.3	7.3	8.0	8.7	5.7
GTO (BURL TF-2)	8.0	8.7	8.7	8.0	7.3	8.0	5.7
HOT ROD (BURL TF-136)	7.7	9.0	8.3	7.3	7.7	8.0	5.7
INSPIRATION (PST-R5NW)	7.0	8.7	8.3	7.7	7.7	8.7	5.7
TRENDING (IS-TF 269 SEL)	7.3	9.0	8.3	7.3	8.0	8.0	5.7
IS-TF 272	8.3	9.0	9.0	8.0	8.0	8.7	5.7
IS-TF 276 M2	7.0	8.7	9.0	7.7	8.3	8.7	5.7
TURFWAY (IS-TF 282 M2)	8.0	9.0	8.7	7.7	8.0	8.3	5.7
FOXHOUND (IS-TF 284 M2)	8.7	8.7	9.0	8.0	8.0	8.0	5.7
FAYETTE (IS-TF 291)	7.3	9.0	8.3	7.0	7.7	8.3	5.7
HOUNDOG8 (IS-TF 307 SEL)	7.0	8.7	8.7	7.7	8.0	8.3	5.7

TABLE 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA

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

NAME	GENETIC COLOR	QUALITY	QUALITY RATINGS AFTER TRAFFIC APPLICATIONS				
		PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	2_MONTH DEC_17
IS-TF 311	7.7	8.7	8.3	8.0	7.7	8.3	5.7
JS 819	7.3	8.7	7.7	7.0	7.7	7.3	5.7
JS 825	6.3	8.3	8.0	6.7	7.7	7.7	5.7
RHAMBLER 2 SRP (LSD)	8.0	9.0	8.0	7.3	7.7	8.7	5.7
MET-3	7.0	9.0	8.0	8.0	8.0	8.3	5.7
FIRECRACKER SLS (PPG-TF-105)	7.7	8.7	8.3	8.0	7.7	8.3	5.7
PARAMOUNT (PPG-TF-137)	7.0	8.3	8.3	7.7	8.0	8.3	5.7
SCREAMER LS (PPG-TF-148)	6.7	8.3	8.3	7.7	8.0	8.3	5.7
BLACK TAIL (PPG-TF-150)	6.3	8.7	8.3	7.3	8.0	7.7	5.7
TITANIUM 2LS (PPG-TF-152)	6.7	8.3	8.7	8.3	8.0	8.3	5.7
THOR (PPG-TF-157)	7.7	9.0	8.3	7.3	8.0	8.3	5.7
PPG-TF-169	7.0	8.3	8.3	8.0	8.0	8.0	5.7
VALKYRIE LS (PPG-TF-172)	7.0	8.3	8.7	8.0	7.7	8.7	5.7
PST-5BRK	7.0	8.0	7.7	6.7	7.3	7.3	5.7
MERIDIAN (PST-5GRB)	6.3	8.7	8.3	8.0	8.0	7.7	5.7
SWAGGER (PST-5RO5)	7.7	8.7	8.3	7.7	8.0	8.3	5.7
RAD-TF-83	6.7	8.3	8.7	7.3	8.0	8.3	5.7
RAD-TF-92	7.7	9.0	8.7	7.7	8.0	8.7	5.7
MAESTRO (T31)	7.3	9.0	8.7	8.0	7.7	8.3	5.7
THUNDERSTRUCK (TD1)	8.3	8.7	8.0	7.0	7.7	8.0	5.7
TRAVERSE 2 SRP (W45)	8.0	9.0	8.7	7.7	8.0	8.7	5.7
RAPTOR III (ZW 44)	7.0	9.0	8.7	8.0	8.3	8.3	5.7
REBEL V (ATF 1736)	7.3	9.0	8.0	8.0	8.0	8.7	5.3
BAR FA 121089	6.7	8.7	8.0	7.0	7.7	8.7	5.3
BAR FA 121091	6.7	8.3	8.3	7.0	8.0	8.3	5.3
BAR FA 121095	7.3	8.7	8.3	7.0	8.0	8.3	5.3
CATALYST	6.3	8.7	8.0	7.0	7.7	8.0	5.3
TEMPLE (DZ1)	8.3	8.7	7.3	7.0	6.7	7.0	5.3
FESNOVA	6.7	9.0	8.0	7.7	7.3	8.7	5.3
FRONTLINE (EXP TF-09)	7.0	9.0	8.7	7.0	7.7	8.0	5.3
NIGHTCRAWLER (IS-TF 285)	7.7	9.0	8.7	7.7	8.0	8.0	5.3
JS 809	6.7	9.0	7.7	7.3	7.3	8.0	5.3
JS 818	7.3	8.3	7.7	7.0	7.3	7.0	5.3
JS 916	7.0	9.0	8.0	7.0	7.0	7.3	5.3
K12-05	7.0	9.0	8.0	7.3	7.7	8.3	5.3
K12-13	6.3	9.0	8.3	7.3	8.0	8.3	5.3
K12-MCD	7.3	8.3	7.7	7.3	7.7	8.3	5.3
MICHELANGELO (LTP-F5DPDR)	7.0	8.7	8.3	7.0	7.7	7.7	5.3
LEONARDO (LTP-FSD)	7.3	9.0	8.0	7.3	7.7	7.7	5.3
REBOUNDER (PICK-W43)	7.0	9.0	8.3	7.7	7.7	7.7	5.3
PPG-TF-135	7.7	9.0	7.0	7.7	6.7	7.0	5.3
PPG-TF-138	7.3	8.7	7.7	7.0	7.3	7.3	5.3
XTENDER (PPG-TF-139)	7.7	8.7	8.3	7.3	7.7	8.0	5.3
WICHITA (PPG-TF-151)	7.7	9.0	8.0	7.7	7.7	8.3	5.3
SUPERSONIC (PPG-TF-170)	7.0	8.7	8.0	8.0	7.7	8.0	5.3

TABLE 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA

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

NAME	GENETIC COLOR	QUALITY	QUALITY RATINGS AFTER TRAFFIC APPLICATIONS				
		PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	2_MONTH DEC_17
PSG-TT4	6.3	8.0	8.3	7.7	7.7	8.3	5.3
PST-5BPO	6.7	8.7	8.3	7.3	7.7	8.3	5.3
EMBRACE (PST-5EV2)	6.0	8.7	8.0	7.0	7.0	7.3	5.3
PST-5MVD	7.3	8.7	8.0	7.3	7.3	7.7	5.3
OLYMPUS (RAD-TF-88)	7.3	9.0	8.3	7.3	7.7	8.0	5.3
RAD-TF-89	7.7	8.7	8.3	7.7	7.7	8.0	5.3
REGENERATE	7.0	9.0	7.0	7.3	7.3	7.3	5.3
TECHNIQUE (RZ2)	7.3	8.7	8.0	7.3	7.3	8.0	5.3
TERRANO	7.3	9.0	8.7	7.7	8.0	8.3	5.3
IS-TF-287	7.0	8.7	8.3	7.7	7.7	8.3	5.3
4TH MILLENNIUM SRP (U43)	7.3	9.0	7.7	7.3	7.7	8.0	5.3
REFLECTION (U45)	7.7	9.0	8.3	7.7	7.7	7.7	5.3
W41	6.3	8.7	8.3	8.0	8.0	8.3	5.3
204 RES. BLK4	7.0	7.3	7.3	6.7	7.3	7.3	5.0
ANNIHILATOR LEDEBOER	6.7	7.3	8.0	6.3	7.0	7.3	5.0
CAESAR (TY 10)	8.0	9.0	8.0	7.0	7.3	7.3	5.0
COMP. RES. SST	7.0	6.7	7.7	6.7	7.0	7.3	5.0
KINGDOM (DB1)	8.0	9.0	8.3	6.3	6.3	7.3	5.0
F711	7.7	8.7	7.7	6.7	7.0	7.3	5.0
KY-31	4.3	6.7	7.3	6.7	6.7	7.3	5.0
ROCKWELL (LTP-TWUU)	7.3	8.7	7.7	7.0	7.3	7.7	5.0
MARAUDER	7.7	7.3	7.7	6.7	7.3	7.0	5.0
MET 1	7.3	8.7	8.0	7.0	7.0	7.3	5.0
BLOODHOUND (MET 6 SEL)	6.7	9.0	8.0	7.0	6.3	7.3	5.0
PSG-GSD	7.3	8.3	8.3	7.3	8.0	8.0	5.0
PST-5EX2	6.0	8.3	7.0	6.7	6.7	7.3	5.0
LSD VALUE	1.6	0.8	1.8	2.0	2.1	1.4	1.6
C.V. (%)	11.3	5.3	7.7	8.8	8.5	7.7	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.

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND COVER RATINGS BEFORE/AFTER TRAFFIC					FALL COLOR RETENTION RATINGS BEFORE/AFTER TRAFFIC					
	PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	2_MONTH DEC_17
BULLSEYE	97.3	91.3	59.3	78.0	84.7	7.7	6.7	6.7	7.7	7.0	6.7
FALCON IV	96.7	94.7	61.7	81.3	85.7	7.3	7.3	6.3	7.3	7.3	7.0
GRANDE 3	96.7	91.0	61.7	73.3	78.3	7.7	6.7	6.0	6.7	6.3	6.0
HEMI	96.3	91.7	61.3	75.0	83.0	8.0	6.3	6.7	7.0	6.7	6.0
UNITUS (IS-TF 289)	97.3	92.3	56.3	75.3	79.3	7.7	7.3	6.7	7.0	7.0	6.0
IS-TF 305 SEL	97.3	92.7	58.7	68.7	77.7	8.3	7.7	6.3	7.3	6.7	5.7
STANDOUT (IS-TF 308 SEL)	97.3	90.3	60.0	74.3	81.3	8.3	6.7	6.3	7.3	6.3	6.0
CROSSFIRE 4 (IS-TF 310 SEL)	96.7	92.0	57.7	70.0	80.3	8.0	7.3	7.7	7.0	7.0	6.0
DIABLO (IS-TF 330)	96.7	93.7	54.7	78.0	81.3	8.0	8.0	7.3	7.7	6.7	6.0
PPG-TF-115	97.7	93.0	60.0	80.7	85.7	7.7	7.7	6.3	7.7	7.3	6.7
ARES (PPG-TF-142)	97.0	91.3	57.7	71.3	80.0	8.0	7.0	6.3	6.0	6.3	6.0
DYNAMITE LS (PPG-TF-145)	97.0	89.0	54.7	72.0	78.0	7.7	6.7	6.7	6.7	7.0	6.7
AVENGER II (PPG-TF-156)	97.0	90.7	60.7	75.0	85.0	8.0	6.3	6.3	6.7	7.3	7.3
PSG-8BP2	96.0	90.0	58.3	70.3	76.3	7.0	6.7	6.3	6.7	6.3	5.7
PSG-PO1	96.7	88.3	62.0	69.3	80.3	7.7	7.0	6.3	6.3	6.3	5.7
FIREWALL (PSG-WE1)	97.0	92.7	62.3	76.3	83.3	8.3	7.3	6.3	7.0	6.3	6.0
PST-5DZP	97.0	92.0	61.7	75.7	83.3	7.7	7.3	6.0	6.3	6.3	5.7
RAIN DANCE (PST-5SDT)	96.7	90.3	60.7	71.3	78.7	7.0	7.0	5.3	6.0	6.0	5.7
SALTILLO (PST-5SALT)	96.7	91.7	64.0	72.3	76.7	7.0	6.3	5.3	6.0	5.7	5.0
ROWDY (SRX-TPC)	96.7	91.3	60.3	74.3	81.0	8.0	7.0	6.7	7.0	6.7	5.7
TEMPTATION (OR-21)	97.0	92.0	53.7	70.7	81.7	8.0	7.7	7.3	7.7	7.3	6.7
WARHAWK	95.0	93.7	51.3	80.0	88.7	7.0	8.0	7.3	8.7	8.3	7.7
AQUADUCT	95.7	90.7	57.0	65.0	76.7	6.7	7.0	6.0	6.7	6.7	6.7
VERT (ATF 1612)	96.7	86.7	58.7	71.0	80.3	7.7	6.7	6.3	6.3	6.3	6.3
ATF 1704	96.3	88.0	59.7	68.0	75.0	7.7	6.7	6.0	6.3	6.3	5.3
ATF 1754	96.3	89.0	62.7	68.0	78.7	7.3	6.3	5.3	6.3	5.7	5.7
B23	96.7	86.7	57.3	64.3	78.0	8.3	6.7	6.7	6.7	6.3	5.7
BAR FA 120878	96.3	89.3	64.0	72.0	79.0	6.0	6.7	4.7	6.0	6.7	6.0
TRINITY (BIZEM)	96.7	90.7	61.3	65.3	74.3	8.3	6.3	5.7	5.7	6.3	5.3
HOVER (BURL TF-69)	97.0	89.7	58.0	72.7	80.0	7.3	7.0	6.0	7.0	6.7	6.3
AMITY (CCR2)	96.7	88.0	60.3	62.7	73.3	7.7	6.0	6.0	6.0	6.3	5.3
FAITH	97.0	92.3	61.3	70.3	80.3	8.0	7.0	6.3	6.7	7.0	6.7
FALCON V	96.3	88.7	64.3	75.0	82.0	7.3	6.7	5.3	7.0	7.0	6.7
FIREBIRD 2	96.7	85.3	58.3	62.7	74.0	8.3	6.7	7.0	7.0	7.0	6.7
MEMPHIS (GO-DFR)	96.3	92.0	57.7	73.7	79.7	7.3	7.3	6.3	7.3	7.0	6.3
GTO (BURL TF-2)	96.3	88.7	60.0	66.0	72.3	8.0	7.0	6.3	7.0	5.7	5.3
HOT ROD (BURL TF-136)	96.0	86.7	55.7	69.3	78.0	8.0	6.7	7.0	7.0	6.7	6.0
INSPIRATION (PST-R5NW)	97.0	92.7	60.0	75.0	79.7	7.7	7.3	5.7	7.0	6.7	6.3
TRENDING (IS-TF 269 SEL)	97.0	85.7	54.3	68.0	75.0	8.0	6.7	7.0	7.0	6.3	6.0
IS-TF 272	97.0	93.7	59.0	74.7	79.0	8.0	7.0	6.7	7.7	6.7	6.3
IS-TF 276 M2	96.7	90.7	52.7	78.0	82.7	7.3	8.0	7.3	8.3	7.3	7.0
TURFWAY (IS-TF 282 M2)	97.3	90.0	60.7	69.0	76.7	8.3	7.0	6.0	6.7	6.7	6.0
FOXHOUND (IS-TF 284 M2)	97.0	93.7	58.3	73.3	83.0	8.0	8.0	6.7	7.0	6.3	5.7
FAYETTE (IS-TF 291)	97.3	88.3	55.3	65.7	78.7	8.0	6.3	6.3	7.0	6.7	6.3
HOUNDOG8 (IS-TF 307 SEL)	96.3	92.0	56.0	76.0	83.3	7.7	7.7	7.0	7.3	7.0	6.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND					COVER RATINGS BEFORE/AFTER TRAFFIC					FALL COLOR RETENTION RATINGS BEFORE/AFTER TRAFFIC						
	PRETRAFFIC	10_GAMES	20_GAMES	2_WEEKS	1_MONTH	PRETRAFFIC	10_GAMES	20_GAMES	2_WEEKS	1_MONTH	2_MONTH	PRETRAFFIC	10_GAMES	20_GAMES	2_WEEKS	1_MONTH	2_MONTH
	SEP_4	OCT_2	OCT_24	NOV_7	NOV_21	SEP_4	OCT_2	OCT_24	NOV_7	NOV_21	DEC_17	SEP_4	OCT_2	OCT_24	NOV_7	NOV_21	DEC_17
IS-TF 311	97.0	87.0	58.0	69.0	80.0	7.7	6.7	6.7	7.0	7.0	6.0	7.7	6.7	6.7	7.0	7.0	6.0
JS 819	97.0	82.0	52.7	59.7	67.3	7.0	6.0	6.7	6.3	6.3	5.7	7.0	6.0	6.7	6.3	6.3	5.7
JS 825	95.0	80.0	55.7	64.7	71.0	6.3	6.3	5.7	6.7	5.7	5.7	6.3	6.3	5.7	6.7	5.7	5.7
RHAMBLER 2 SRP (LSD)	96.7	84.3	58.7	69.3	81.0	7.3	5.7	6.7	6.7	6.3	5.7	7.3	5.7	6.7	6.7	6.3	5.7
MET-3	96.3	92.3	60.7	72.7	80.3	7.7	6.3	6.7	6.7	7.0	6.3	7.7	6.3	6.7	7.0	7.0	6.3
FIRECRACKER SLS (PPG-TF-105)	97.7	90.0	60.7	68.3	78.0	7.7	6.7	6.7	6.3	6.7	6.3	7.7	6.7	6.7	6.3	6.7	6.3
PARAMOUNT (PPG-TF-137)	96.3	88.3	62.0	71.3	80.0	7.3	6.7	6.3	6.7	6.7	6.0	7.3	6.7	6.3	6.7	6.7	6.0
SCREAMER LS (PPG-TF-148)	96.3	90.7	64.0	70.7	79.7	7.0	6.0	6.0	6.3	6.3	6.3	7.0	6.0	6.0	6.3	6.3	6.3
BLACK TAIL (PPG-TF-150)	96.3	83.3	59.0	70.7	74.0	7.0	6.0	5.7	6.3	6.0	6.0	7.0	6.0	5.7	6.3	6.0	6.0
TITANIUM 2LS (PPG-TF-152)	97.7	92.0	58.7	76.0	80.3	7.7	7.0	7.0	7.0	7.0	7.0	7.7	7.0	7.0	7.0	7.0	6.0
THOR (PPG-TF-157)	97.0	92.0	59.0	72.7	79.7	8.3	6.7	6.7	7.0	7.0	6.0	8.3	6.7	6.7	7.0	7.0	6.0
PPG-TF-169	96.0	88.7	62.3	70.0	76.0	7.3	6.3	6.0	7.0	6.7	6.3	7.3	6.3	6.0	7.0	6.7	6.3
VALKYRIE LS (PPG-TF-172)	96.7	92.7	65.0	70.7	78.3	7.0	6.7	5.7	6.3	6.3	6.0	7.0	6.7	5.7	6.3	6.3	6.0
PST-5BRK	97.0	79.0	56.0	61.7	65.0	7.0	5.7	5.7	5.7	5.7	5.3	7.0	5.7	5.7	5.7	5.3	5.0
MERIDIAN (PST-5GRB)	96.0	90.7	65.7	75.3	77.7	6.3	7.0	5.3	6.0	5.3	5.3	6.3	7.0	5.3	6.0	5.3	5.3
SWAGGER (PST-5RO5)	96.7	92.0	59.7	76.3	77.7	7.7	7.0	6.0	6.7	6.0	5.7	7.7	7.0	6.0	6.7	6.0	5.7
RAD-TF-83	95.7	91.3	55.3	67.7	75.7	7.3	7.7	6.3	6.7	7.3	6.7	7.3	7.7	6.3	6.7	7.3	6.7
RAD-TF-92	97.0	91.0	57.0	75.0	78.0	7.3	7.0	7.0	6.7	7.0	6.0	7.3	7.0	7.0	6.7	7.0	6.0
MAESTRO (T31)	96.3	91.0	65.3	69.3	78.0	8.0	7.0	6.0	6.7	6.0	5.7	8.0	7.0	6.0	6.7	6.0	5.7
THUNDERSTRUCK (TD1)	96.7	82.3	53.3	65.3	73.3	8.0	6.7	6.7	6.7	6.3	6.0	8.0	6.7	6.7	6.7	6.3	6.0
TRAVERSE 2 SRP (W45)	96.0	89.3	57.7	70.0	81.7	8.7	7.3	7.0	7.0	7.0	6.7	8.7	7.3	7.0	7.0	7.0	6.7
RAPTOR III (ZW 44)	97.0	91.7	58.7	77.0	82.0	8.0	6.7	6.7	7.0	6.7	6.3	8.0	6.7	6.7	7.0	6.7	6.3
REBEL V (ATF 1736)	96.3	90.7	61.3	71.7	81.0	8.0	7.3	6.3	6.7	6.7	5.7	8.0	7.3	6.3	6.7	6.7	5.7
BAR FA 121089	96.3	87.3	56.3	71.0	83.0	7.7	7.0	6.3	6.3	7.3	6.7	7.7	7.0	6.3	6.3	7.3	6.7
BAR FA 121091	97.0	91.3	54.0	74.7	80.3	8.0	7.3	6.0	7.0	7.0	6.7	8.0	7.3	6.0	7.0	7.0	6.7
BAR FA 121095	96.7	90.3	53.3	72.3	79.3	7.7	7.0	6.3	7.3	7.0	6.7	7.7	7.0	6.3	7.3	7.0	6.7
CATALYST	96.0	86.0	55.7	67.7	72.7	7.0	6.0	6.0	6.3	6.3	6.0	7.0	6.0	6.0	6.3	6.3	6.0
TEMPLE (DZ1)	96.3	64.7	53.0	40.3	52.0	8.0	5.0	7.0	5.3	5.7	5.3	8.0	5.0	7.0	5.3	5.7	5.3
FESNOVA	97.3	86.0	53.3	64.3	77.7	7.7	6.3	7.3	6.7	7.0	6.7	7.7	6.3	7.3	6.7	7.0	6.7
FRONTLINE (EXP TF-09)	97.0	89.0	54.0	64.3	69.7	8.0	7.0	6.7	6.7	6.3	6.0	8.0	7.0	6.7	6.7	6.3	5.7
NIGHTCRAWLER (IS-TF 285)	97.3	84.7	52.7	64.7	72.7	8.7	7.3	7.3	7.3	7.0	6.3	8.7	7.3	7.3	7.3	6.3	6.0
JS 809	97.0	82.3	54.7	61.7	71.3	7.3	6.0	7.0	6.3	6.3	5.7	7.3	6.0	7.0	6.3	6.3	5.7
JS 818	96.3	80.0	50.3	56.3	63.0	7.3	6.7	6.7	6.3	6.3	5.7	7.3	6.7	6.7	6.3	6.3	5.7
JS 916	96.3	76.7	53.3	50.0	59.3	7.3	6.3	6.7	5.7	5.7	4.7	7.3	6.3	6.7	5.7	5.7	4.7
K12-05	97.0	85.3	51.0	61.7	72.3	7.7	6.3	7.7	6.3	6.7	6.3	7.7	6.3	7.7	6.3	6.7	6.3
K12-13	96.7	88.7	56.7	71.3	79.3	7.7	6.3	7.0	6.3	6.3	6.0	7.7	6.3	7.0	6.3	6.3	6.0
K12-MCD	96.3	83.3	57.7	69.0	79.3	7.3	6.3	6.0	6.3	7.3	6.3	7.3	6.3	6.0	6.3	7.3	6.3
MICHELANGELO (LTP-F5DPDR)	97.3	87.7	55.3	65.3	72.3	7.7	6.3	6.7	6.7	5.7	5.7	7.7	6.3	6.7	6.7	5.7	5.7
LEONARDO (LTP-FSD)	96.7	82.0	55.7	61.7	66.0	8.3	6.3	6.7	6.3	6.0	5.3	8.3	6.3	6.7	6.3	6.0	5.3
REBOUNDER (PICK-W43)	97.0	84.7	58.0	66.3	73.7	8.0	7.0	6.3	6.3	6.3	6.0	8.0	7.0	6.3	6.3	6.3	6.0
PPG-TF-135	96.7	69.7	55.7	45.3	58.3	7.7	4.7	7.0	4.7	5.3	4.7	7.7	4.7	7.0	4.7	5.3	4.7
PPG-TF-138	97.3	83.0	54.0	60.3	62.7	7.7	6.0	7.0	5.7	5.7	5.7	7.7	6.0	7.0	5.7	5.7	5.7
XTENDER (PPG-TF-139)	96.3	91.3	59.3	68.7	73.0	7.3	6.3	6.3	6.0	6.0	5.3	7.3	6.3	6.3	6.0	6.0	5.3
WICHITA (PPG-TF-151)	96.3	88.7	58.0	68.7	78.0	8.0	6.3	7.0	6.7	6.3	6.3	8.0	6.3	7.0	6.7	6.3	6.3
SUPERSONIC (PPG-TF-170)	96.7	86.0	61.0	66.0	73.3	7.3	7.0	6.0	7.0	6.7	6.3	7.3	7.0	6.0	7.0	6.7	6.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA

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

NAME	PERCENT LIVING GROUND COVER RATINGS BEFORE/AFTER TRAFFIC					FALL COLOR RETENTION RATINGS BEFORE/AFTER TRAFFIC					
	PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	PRETRAFFIC SEP_4	10_GAMES OCT_2	20_GAMES OCT_24	2_WEEKS NOV_7	1_MONTH NOV_21	2_MONTH DEC_17
PSG-TT4	96.3	90.0	64.0	71.7	81.7	6.3	6.7	5.3	6.3	6.0	5.0
PST-5BPO	96.3	90.0	62.0	70.7	77.7	7.3	7.0	5.7	6.3	5.7	5.3
EMBRACE (PST-5EV2)	96.7	83.3	57.7	56.0	66.3	7.3	5.3	5.7	5.3	5.0	4.7
PST-5MVD	96.3	89.0	59.7	63.7	71.0	7.3	6.0	6.7	5.3	5.3	5.3
OLYMPUS (RAD-TF-88)	97.0	88.3	58.3	71.0	73.3	7.7	7.0	6.3	6.0	6.0	5.7
RAD-TF-89	97.3	84.7	55.3	61.7	70.7	7.3	6.3	7.0	6.0	6.7	6.0
REGENERATE	96.7	69.3	55.0	48.3	58.7	8.3	5.3	7.0	5.7	5.3	5.0
TECHNIQUE (RZ2)	96.0	81.7	58.7	59.3	68.7	7.3	5.7	6.3	6.3	6.0	5.0
TERRANO	96.7	88.0	57.0	71.0	79.7	7.7	7.0	6.7	6.7	6.3	6.3
IS-TF-287	95.3	85.0	57.0	70.3	79.7	7.0	7.0	7.0	6.7	6.3	6.0
4TH MILLENNIUM SRP (U43)	97.0	78.3	53.3	61.0	68.7	8.0	6.0	7.3	6.7	6.7	6.3
REFLECTION (U45)	96.3	87.0	59.7	68.3	73.0	7.7	7.0	5.3	7.0	6.0	5.7
W41	96.7	89.3	58.3	72.3	78.7	8.0	7.0	6.0	6.7	6.7	6.3
204 RES. BLK4	92.7	71.0	51.3	60.0	66.7	6.0	5.0	6.3	6.0	6.0	5.3
ANNIHILATOR LEDEBOER	93.0	77.3	51.0	53.7	64.3	6.0	6.3	6.0	6.0	5.7	5.3
CAESAR (TY 10)	97.3	80.3	50.0	53.0	68.3	8.3	6.3	7.3	6.7	6.3	5.7
COMP. RES. SST	90.7	76.0	51.0	52.0	62.3	5.3	6.0	6.7	6.0	5.3	5.3
KINGDOM (DB1)	96.3	80.7	51.3	45.7	56.3	7.7	6.3	6.3	5.0	5.3	4.7
F711	96.7	78.3	52.7	49.7	60.7	7.3	5.3	6.7	5.3	5.3	5.3
KY-31	93.7	74.7	62.3	55.3	69.0	4.3	4.7	3.7	5.0	4.7	4.0
ROCKWELL (LTP-TWUU)	96.0	80.0	57.3	58.0	67.0	7.7	5.7	6.3	6.0	6.3	5.3
MARAUDER	93.3	79.3	51.7	57.7	60.7	6.0	6.0	6.3	6.0	6.0	5.0
MET 1	96.0	81.7	59.3	55.0	65.7	7.7	5.7	5.7	5.7	5.0	4.7
BLOODHOUND (MET 6 SEL)	96.3	83.7	61.0	53.0	63.3	7.7	5.7	5.3	4.7	4.7	4.7
PSG-GSD	96.3	88.7	56.0	68.7	70.7	7.3	6.7	6.3	6.7	6.3	5.7
PST-5EX2	97.0	72.0	52.0	50.0	55.3	7.3	5.0	6.0	5.3	5.3	5.0
LSD VALUE	4.2	24.1	10.1	26.7	23.9	1.2	1.6	1.0	2.2	2.0	2.4
C.V. (%)	1.5	9.9	8.2	16.6	13.4	9.0	12.4	9.4	14.1	13.4	15.1

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME (SEP)	TDR MOISTURE PROBE RATINGS BEFORE/AFTER TRAFFIC					CLEGG (GMAX) RATINGS (AVERAGE OF 3 MEASUREMENTS)					PERCENT BROWN PATCH (JUL)	PERCENT PYTHIUM BLIGHT
	PRETRAFFIC SEP_4	5_GAMES SEP_24	10_GAMES OCT_2	15_GAMES OCT_15	20_GAMES OCT_24	PRETRAFFIC SEP_4	5_GAMES SEP_24	10_GAMES OCT_2	15_GAMES OCT_15	20_GAMES OCT_24		
BULLSEYE	46.3	48.7	46.0	39.0	36.3	41.7	51.7	37.0	55.0	71.7	7.7	6.0
FALCON IV	45.7	48.0	49.7	43.7	37.3	46.3	55.7	44.3	55.7	70.7	16.7	7.0
GRANDE 3	46.3	46.3	47.0	43.3	32.7	61.7	55.0	52.0	65.3	66.3	15.3	6.7
HEMI	44.0	50.7	53.0	40.3	34.7	46.7	51.7	50.7	60.3	75.7	11.0	6.3
UNITUS (IS-TF 289)	40.0	45.3	44.3	35.3	34.7	42.7	45.7	45.3	48.3	74.3	15.7	5.0
IS-TF 305 SEL	43.0	46.7	46.7	38.0	34.0	50.0	54.3	55.0	63.3	73.0	12.7	7.0
STANDOUT (IS-TF 308 SEL)	44.3	47.7	49.7	44.0	34.3	38.7	48.7	46.7	53.0	67.7	15.0	5.7
CROSSFIRE 4 (IS-TF 310 SEL)	46.3	44.3	51.0	43.3	34.0	42.0	50.0	47.0	61.0	71.3	8.3	6.3
DIABLO (IS-TF 330)	44.3	48.0	49.7	42.0	32.0	47.0	48.3	49.0	49.3	66.3	16.7	5.3
PPG-TF-115	44.0	46.0	47.0	42.7	37.7	44.0	55.3	47.7	59.0	69.7	11.7	7.3
ARES (PPG-TF-142)	42.0	45.3	44.7	38.3	33.0	41.0	56.0	46.7	62.3	73.7	21.7	8.3
DYNAMITE LS (PPG-TF-145)	44.3	48.0	48.0	45.7	36.7	43.0	55.7	45.3	60.7	67.7	16.0	7.7
AVENGER II (PPG-TF-156)	47.3	49.0	54.3	44.3	37.0	38.7	53.0	45.0	61.0	70.0	10.7	6.7
PSG-8BP2	46.0	44.0	47.0	37.7	31.0	43.7	53.7	50.0	65.3	76.0	17.7	6.3
PSG-PO1	45.7	49.3	48.3	39.3	37.3	41.7	48.7	53.3	55.7	71.0	15.3	7.0
FIREWALL (PSG-WE1)	44.3	51.7	51.0	41.7	36.3	40.0	51.0	42.7	57.7	65.7	14.3	6.7
PST-5DZP	46.7	47.3	46.7	40.7	33.7	40.7	54.7	47.3	59.7	80.3	15.7	7.0
RAIN DANCE (PST-5SDT)	45.0	50.0	45.7	43.3	35.0	45.3	49.0	53.3	62.0	78.7	17.7	8.3
SALTILLO (PST-5SALT)	46.3	48.0	46.7	40.3	34.7	41.7	50.7	42.7	53.3	73.7	12.3	6.0
ROWDY (SRX-TPC)	45.0	50.3	50.7	39.0	33.7	41.3	51.7	48.3	60.3	72.3	11.7	6.3
TEMPTATION (OR-21)	46.3	48.0	46.3	36.7	32.3	38.3	52.0	52.0	55.7	86.7	13.0	7.3
WARHAWK	41.3	44.3	48.3	34.7	33.0	52.7	60.7	55.3	69.7	71.7	18.7	13.3
AQUADUCT	44.0	41.0	45.7	37.7	31.0	49.3	59.7	40.0	73.7	73.7	17.3	8.0
VERT (ATF 1612)	44.3	47.0	45.3	40.7	34.7	47.3	55.0	47.0	64.0	73.7	14.0	8.7
ATF 1704	42.7	48.7	52.3	37.3	36.3	46.0	52.3	51.0	63.3	65.7	13.3	10.0
ATF 1754	46.3	49.3	49.3	38.7	34.3	43.7	51.7	49.3	62.7	77.7	11.3	7.0
B23	46.3	52.7	50.7	42.3	57.7	46.3	51.7	46.3	61.0	75.3	14.0	5.7
BAR FA 120878	46.0	47.7	48.7	41.0	32.0	41.7	51.7	52.3	65.0	73.0	15.0	11.3
TRINITY (BIZEM)	46.3	50.7	45.3	42.0	32.7	48.0	54.0	49.0	60.3	70.0	7.0	6.7
HOVER (BURL TF-69)	46.0	49.3	46.3	40.7	37.7	43.7	52.3	44.0	58.0	69.7	12.0	9.0
AMITY (CCR2)	44.0	47.7	48.0	41.3	31.7	50.7	57.0	51.0	57.7	81.0	8.7	6.3
FAITH	41.7	48.7	46.0	40.7	35.3	37.3	49.0	48.0	61.3	73.3	16.7	6.3
FALCON V	44.0	47.0	46.0	43.0	37.0	51.7	50.3	47.7	62.7	73.3	11.7	6.0
FIREBIRD 2	40.0	47.3	47.7	36.0	30.3	50.7	58.7	55.0	72.3	71.7	9.3	6.7
GO-DFR	43.7	46.3	45.0	39.3	35.3	39.7	51.7	47.0	64.0	70.0	14.3	8.3
GTO (BURL TF-2)	44.3	48.0	48.7	43.3	35.3	46.0	52.3	47.3	58.0	67.0	13.3	7.7
HOT ROD (BURL TF-136)	45.7	49.0	59.0	42.7	37.0	48.0	57.7	48.3	64.0	67.0	13.3	9.7
INSPIRATION (PST-R5NW)	42.7	46.3	48.3	43.7	35.7	50.3	49.3	48.0	61.7	66.7	15.7	5.7
TRENDING (IS-TF 269 SEL)	43.7	43.3	51.3	44.0	35.7	51.0	59.3	53.0	58.3	71.0	12.3	8.0
IS-TF 272	44.3	46.3	45.7	36.7	33.0	48.3	52.0	49.0	62.7	70.0	8.0	5.7
IS-TF 276 M2	46.0	49.7	43.7	38.0	35.3	41.7	52.0	45.0	60.3	79.3	11.7	7.3
TURFWAY (IS-TF 282 M2)	45.7	47.0	50.0	36.7	34.3	48.7	53.0	53.0	57.7	76.3	10.0	7.7
FOXHOUND (IS-TF 284 M2)	45.7	43.0	46.0	36.7	32.7	40.0	53.0	54.3	64.7	70.0	18.3	7.0
FAYETTE (IS-TF 291)	43.3	47.7	49.3	38.7	34.0	43.7	51.7	52.7	64.7	82.0	13.3	8.7
HOUNDOG8 (IS-TF 307 SEL)	45.7	48.3	48.3	42.0	32.0	45.7	52.0	49.7	64.3	70.3	15.0	7.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	TDR MOISTURE PROBE RATINGS BEFORE/AFTER TRAFFIC					CLEGG (GMAX) RATINGS (AVERAGE OF 3 MEASUREMENTS)					PERCENT BROWN PATCH (JUL)	PERCENT PYTHIUM BLIGHT (SEP)
	PRETRAFFIC	5_GAMES	10_GAMES	15_GAMES	20_GAMES	PRETRAFFIC	5_GAMES	10_GAMES	15_GAMES	20_GAMES		
	SEP_4	SEP_24	OCT_2	OCT_15	OCT_24	SEP_4	SEP_24	OCT_2	OCT_15	OCT_24		
IS-TF 311	45.7	49.0	48.0	46.3	36.0	43.0	54.7	48.0	49.0	79.3	10.7	7.3
JS 819	43.7	44.0	42.3	37.3	31.7	49.3	56.0	63.3	65.7	81.7	14.0	6.3
JS 825	42.3	44.7	44.3	38.7	31.7	51.3	53.7	50.7	62.7	83.3	15.0	10.7
RHAMBLER 2 SRP (LSD)	42.7	45.0	47.0	38.3	35.0	53.0	61.3	52.0	65.3	74.7	10.7	6.3
MET-3	43.7	47.0	46.0	43.7	34.0	47.3	58.0	46.7	60.7	65.0	10.0	5.0
PPG-TF-105	44.7	47.7	48.7	40.7	35.3	43.0	54.0	51.0	54.7	66.3	16.7	6.0
PPG-TF-137	40.3	45.3	46.7	44.3	38.0	43.3	54.0	47.3	56.7	64.3	11.0	6.3
SCREAMER LS (PPG-TF-148)	44.3	49.7	45.3	39.7	32.3	46.0	52.0	49.3	53.7	74.0	10.7	5.0
BLACK TAIL (PPG-TF-150)	48.0	50.0	48.7	40.0	36.0	44.0	50.3	44.7	58.3	67.3	16.3	8.3
TITANIUM 2LS (PPG-TF-152)	44.7	49.0	50.7	42.3	34.3	42.0	54.7	46.0	55.0	70.3	12.3	6.7
THOR (PPG-TF-157)	44.7	49.3	50.3	42.3	37.3	48.0	53.0	51.3	61.0	73.7	13.0	7.0
PPG-TF-169	47.3	50.7	54.7	44.3	37.7	43.0	58.3	48.7	59.7	69.0	12.3	7.0
VALKYRIE LS (PPG-TF-172)	44.7	46.0	47.0	38.7	35.0	39.3	50.3	41.7	60.0	67.7	14.0	6.7
PST-5BRK	47.3	47.7	48.3	36.3	32.0	51.3	56.0	50.0	62.3	77.0	16.0	7.3
MERIDIAN (PST-5GRB)	45.0	45.3	43.7	40.7	34.7	52.3	50.3	48.3	53.7	71.7	18.3	7.0
SWAGGER (PST-5RO5)	43.7	46.3	46.3	38.3	31.0	55.3	53.3	52.0	69.3	81.3	17.7	6.3
RAD-TF-83	43.7	46.7	45.3	42.7	33.0	41.3	56.0	54.3	66.3	76.7	16.3	8.0
RAD-TF-92	45.0	50.0	48.7	43.3	35.0	47.3	58.0	53.0	65.7	72.3	22.0	7.7
MAESTRO (T31)	46.3	49.7	51.0	39.7	35.3	44.0	47.0	41.0	55.7	69.7	11.7	8.0
THUNDERSTRUCK (TD1)	45.3	48.3	49.7	43.0	35.7	43.0	52.7	44.3	60.7	71.7	12.0	7.7
TRAVERSE 2 SRP (W45)	43.3	51.0	49.7	45.0	39.3	39.3	46.0	51.7	62.7	70.7	12.3	6.7
RAPTOR III (ZW 44)	46.3	47.7	49.0	43.3	34.3	42.7	55.3	55.0	55.7	76.3	13.0	5.3
REBEL V (ATF 1736)	46.3	46.3	44.3	36.3	34.7	39.3	57.7	52.0	69.0	70.7	17.3	7.3
BAR FA 121089	40.7	48.7	51.0	41.3	32.3	40.0	49.0	56.3	69.0	80.7	16.7	8.3
BAR FA 121091	47.0	47.3	51.7	44.0	34.3	45.0	51.7	43.7	65.7	66.7	16.0	8.0
BAR FA 121095	43.7	48.3	47.0	42.7	32.0	53.0	54.3	47.3	58.3	65.0	8.7	7.0
CATALYST	49.3	43.7	45.3	39.3	32.3	47.3	57.7	47.3	73.0	80.0	15.0	6.7
TEMPLE (DZ1)	43.7	47.7	48.3	37.0	31.3	47.3	59.7	48.7	73.0	86.0	14.3	9.3
FESNOVA	43.3	45.3	45.3	36.0	32.0	50.0	53.7	52.7	62.7	76.3	11.7	6.0
FRONTLINE (EXP TF-09)	41.7	48.0	46.7	38.3	31.7	44.0	48.0	56.7	60.0	71.0	13.3	7.7
NIGHTCRAWLER (IS-TF 285)	43.0	48.0	49.3	41.7	38.0	43.7	51.0	52.3	64.0	72.3	11.7	7.3
JS 809	44.0	45.7	43.3	39.7	35.7	48.7	50.0	48.7	61.0	76.0	15.3	6.0
JS 818	43.3	45.7	44.7	37.0	31.3	51.3	62.3	49.3	65.7	78.3	16.7	7.3
JS 916	44.3	43.3	42.3	33.3	30.7	49.7	56.3	53.3	60.3	81.3	10.7	7.3
K12-05	45.0	45.0	47.3	41.7	30.7	50.7	54.7	54.0	66.3	85.3	18.0	9.0
K12-13	42.7	46.0	46.7	40.0	31.3	46.3	51.7	47.7	49.3	72.7	18.0	11.7
K12-MCD	45.3	46.7	49.0	39.3	35.7	48.7	55.0	51.3	64.0	77.0	11.3	6.0
MICHELANGELO (LTP-F5DPDR)	41.7	48.7	49.0	38.7	32.0	44.7	55.7	50.0	63.7	75.0	8.3	6.7
LEONARDO (LTP-FSD)	45.3	44.3	50.3	38.3	29.7	39.3	54.0	50.3	52.3	77.3	15.0	7.0
REBOUNDER (PICK-W43)	44.3	49.0	48.7	42.0	36.7	41.0	51.3	53.0	53.3	71.7	10.3	6.7
PPG-TF-135	44.7	44.3	47.7	43.0	33.3	48.0	60.7	49.0	75.0	73.7	10.0	6.3
PPG-TF-138	43.3	48.0	47.3	37.7	33.0	49.0	56.7	48.7	73.7	79.7	11.7	7.7
XTENDER (PPG-TF-139)	44.0	48.7	45.3	39.0	31.0	46.3	53.3	44.0	59.3	73.7	11.7	7.7
WICHITA (PPG-TF-151)	46.3	48.7	49.3	37.7	34.7	41.7	46.3	48.7	61.3	73.3	14.0	7.7
SUPERSONIC (PPG-TF-170)	46.7	49.3	50.7	44.0	35.3	41.3	50.0	46.7	59.3	71.3	11.7	6.7

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2013 DATA

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

NAME	TDR MOISTURE PROBE RATINGS BEFORE/AFTER TRAFFIC					CLEGG (GMAX) RATINGS (AVERAGE OF 3 MEASUREMENTS)					PERCENT BROWN PATCH (JUL)	PERCENT PYTHIUM BLIGHT (SEP)
	PRETRAFFIC SEP_4	5_GAMES SEP_24	10_GAMES OCT_2	15_GAMES OCT_15	20_GAMES OCT_24	PRETRAFFIC SEP_4	5_GAMES SEP_24	10_GAMES OCT_2	15_GAMES OCT_15	20_GAMES OCT_24		
PSG-TT4	46.3	47.3	43.0	38.0	33.0	48.0	47.0	42.7	63.0	72.0	14.0	7.3
PST-5BPO	46.7	52.0	43.7	38.0	35.0	41.0	50.0	43.7	48.0	70.7	12.3	6.7
EMBRACE (PST-5EV2)	47.0	46.3	45.0	41.0	31.3	43.7	49.7	43.0	60.0	74.7	18.7	5.3
PST-5MVD	48.7	49.3	46.0	38.3	36.7	44.3	45.3	47.3	53.7	69.3	12.7	6.7
OLYMPUS (RAD-TF-88)	46.0	49.3	52.0	40.0	32.7	48.0	51.0	50.7	54.7	76.3	18.3	8.7
RAD-TF-89	43.3	47.7	48.7	42.0	34.7	50.3	54.0	52.7	61.7	75.0	15.7	7.7
REGENERATE	41.7	47.0	45.7	38.3	36.0	44.0	52.3	50.3	58.0	76.7	11.7	6.3
TECHNIQUE (RZ2)	44.7	44.3	48.7	38.3	34.0	45.0	54.3	48.7	57.0	68.7	12.7	6.7
TERRANO	43.7	45.0	46.3	38.7	35.0	43.7	55.7	50.3	65.0	76.7	10.0	6.3
IS-TF-287	45.0	49.7	48.3	43.3	34.7	40.0	47.3	53.7	56.0	71.3	17.3	10.0
4TH MILLENNIUM SRP (U43)	46.3	47.0	45.0	37.7	34.0	49.3	56.3	54.3	70.3	81.7	10.7	7.7
REFLECTION (U45)	44.3	50.0	47.3	43.0	33.7	42.0	50.7	44.3	57.0	71.3	16.7	9.7
W41	47.7	53.0	47.7	43.3	36.0	38.3	52.3	47.7	60.3	66.3	10.0	9.7
204 RES. BLK4	41.3	44.0	43.3	33.0	30.0	48.3	58.7	50.0	59.7	89.0	14.0	18.0
ANNIHILATOR LEDEBOER	47.0	44.0	42.3	36.0	33.0	40.7	54.0	41.3	71.7	76.7	17.7	15.7
CAESAR (TY 10)	44.3	43.3	44.0	37.7	32.3	53.3	58.7	52.3	59.7	88.7	10.0	8.0
COMP. RES. SST	43.0	44.7	43.0	35.7	31.7	50.7	60.7	55.3	69.7	71.3	22.0	18.0
KINGDOM (DB1)	44.7	50.0	42.3	40.3	34.7	48.0	52.3	49.3	58.3	74.0	14.3	8.3
F711	45.7	45.3	43.7	38.7	33.0	51.0	63.0	49.7	64.3	76.0	12.0	7.7
KY-31	42.0	43.3	41.0	33.3	56.0	48.3	59.7	55.0	81.3	78.3	16.7	14.7
ROCKWELL (LTP-TWUU)	41.0	45.7	48.3	41.7	34.0	47.0	54.0	54.3	63.3	73.3	14.0	7.7
MARAUDER	44.0	43.3	46.7	36.7	32.3	45.7	60.7	44.7	70.0	76.0	18.7	10.7
MET 1	40.3	46.7	47.3	40.0	32.3	41.0	54.3	49.7	62.0	70.7	14.7	7.3
BLOODHOUND (MET 6 SEL)	44.3	50.0	45.7	42.7	31.3	52.0	55.0	53.3	61.3	79.0	16.0	4.7
PSG-GSD	46.0	48.3	46.0	36.7	28.3	53.3	56.0	53.7	72.0	80.7	16.3	6.3
PST-5EX2	41.0	40.7	46.0	33.0	30.3	55.7	55.7	47.0	77.7	90.0	10.0	6.0
LSD VALUE	19.2	10.5	16.6	20.2	19.3	36.2	43.2	30.8	50.8	59.0	9.3	4.2
C.V. (%)	8.0	7.5	9.7	12.3	16.8	17.4	13.8	14.3	17.6	14.2	30.0	30.8

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								QUALITY RATINGS				
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	AFTER TRAFFIC PRETRAFFIC	OCT 17 10 GAME	NOV 10 20 GAME	NOV 24 2-WEEKS	DEC 8 1-MONTH
REBEL V (ATF 1736)	7.7	6.7	5.3	5.7	7.3	8.0	7.0	8.7	8.7	8.3	8.7	7.0	7.3	7.0	7.0
GRANDE 3	7.7	7.0	6.0	6.0	7.7	8.0	7.0	9.0	9.0	8.0	8.7	7.0	7.3	6.7	7.0
HEMI	8.3	7.0	6.0	5.7	7.7	8.3	7.0	8.3	8.3	8.3	8.7	6.7	7.3	7.0	7.0
PPG-TF-115	7.7	7.0	6.0	6.0	7.0	7.7	7.0	8.0	8.0	8.0	8.3	7.3	7.3	7.3	7.0
ARES (PPG-TF-142)	8.3	7.0	6.0	6.0	7.3	8.0	7.7	9.0	9.0	8.0	9.0	6.7	6.7	7.3	7.0
RAD-TF-89	7.3	6.7	5.3	6.0	7.0	7.0	7.0	8.7	8.7	8.0	8.7	7.0	7.0	6.7	7.0
TRAVERSE 2 SRP (W45)	7.7	6.7	5.7	6.0	7.7	8.0	7.0	8.7	8.7	8.3	9.0	6.7	7.0	6.7	7.0
WARHAWK	8.0	7.0	6.0	6.0	7.7	7.7	7.0	8.3	8.3	8.3	8.0	7.3	7.3	6.7	7.0
ATF 1704	7.7	6.7	5.7	5.7	7.3	8.3	7.0	8.3	8.3	8.7	8.7	6.7	6.7	6.7	6.7
BAR FA 121091	7.3	6.3	5.3	5.7	6.7	6.7	7.0	9.0	9.0	8.0	8.3	7.3	7.0	6.7	6.7
CATALYST	7.7	6.3	5.3	5.7	7.0	7.7	7.0	8.7	8.7	8.0	8.7	6.3	6.7	6.0	6.7
FALCON IV	6.7	7.3	6.0	6.3	7.7	8.0	6.7	8.3	8.3	8.3	8.3	7.3	7.0	7.0	6.7
FIREBIRD 2	6.7	6.7	5.7	5.7	6.7	7.0	6.3	8.3	8.3	8.0	9.0	6.0	6.7	6.7	6.7
FRONTLINE (EXP TF-09)	7.7	6.3	5.3	5.7	7.3	7.3	7.0	8.7	8.7	8.0	8.7	6.7	6.7	6.0	6.7
HOT ROD (BURL TF-136)	7.7	6.7	5.7	5.7	7.7	7.7	7.0	9.0	9.0	8.0	9.0	6.7	6.7	6.3	6.7
FOXHOUND (IS-TF 284 M2)	7.7	6.7	5.7	5.7	7.3	8.3	7.0	8.7	8.7	8.0	8.3	7.0	7.7	7.3	6.7
NIGHTCRAWLER (IS-TF 285)	7.3	6.3	5.3	5.3	6.7	6.7	7.0	8.7	8.7	8.0	9.0	7.0	7.0	6.7	6.7
FAYETTE (IS-TF 291)	9.0	6.7	5.7	5.7	7.3	7.0	7.0	8.7	8.7	8.3	8.7	6.7	7.3	7.0	6.7
RHIZING MOON (IS-TF 305 SEL)	8.0	7.0	6.0	6.0	7.3	8.3	7.0	8.7	8.7	8.3	9.0	6.7	7.0	6.7	6.7
DIABLO (IS-TF 330)	8.0	7.0	6.0	6.0	6.7	7.0	7.3	9.0	9.0	8.3	9.0	7.3	7.3	7.0	6.7
K12-05	7.3	6.3	5.3	5.3	6.7	7.7	7.3	9.0	9.0	8.0	9.0	7.0	6.3	6.3	6.7
FIRECRACKER SLS (PPG-TF-105)	8.0	6.7	5.7	5.7	7.7	7.7	7.0	9.0	9.0	8.3	8.7	6.7	6.7	6.7	6.7
AVENGER II (PPG-TF-156)	7.7	7.0	6.0	6.0	8.0	8.0	7.0	8.7	8.7	8.0	9.0	6.7	7.3	6.7	6.7
PPG-TF-169	7.3	6.7	5.7	5.7	7.7	8.0	7.0	9.0	9.0	8.0	8.3	6.3	7.0	6.7	6.7
VALKYRIE LS (PPG-TF-172)	7.3	6.7	5.7	5.7	7.0	7.7	7.7	9.0	9.0	8.0	8.3	6.7	7.0	6.7	6.7
FIREWALL (PSG-WE1)	7.7	7.0	6.0	6.0	7.7	8.3	7.0	9.0	9.0	8.0	9.0	7.3	7.0	6.7	6.7
PST-5DZP	7.3	7.0	6.0	6.0	7.7	8.3	7.0	9.0	9.0	8.0	8.7	7.7	7.3	6.3	6.7
SWAGGER (PST-5R05)	6.3	6.7	4.0	5.7	7.3	8.0	7.0	8.3	8.3	8.0	8.7	7.3	6.7	6.3	6.7
MAESTRO (T31)	8.0	6.7	5.7	5.7	7.0	7.7	7.0	9.0	9.0	8.0	9.0	7.0	7.0	6.7	6.7
THUNDERSTRUCK (TD1)	8.0	6.7	5.7	6.0	7.3	7.7	7.0	9.0	9.0	8.3	8.7	7.0	6.7	7.0	6.7
TEMPTATION (OR-21)	7.3	7.0	6.0	6.0	7.3	8.0	7.0	8.3	8.3	8.0	9.0	7.7	7.3	7.0	6.7
RAPTOR III (ZW 44)	8.0	6.7	6.0	5.7	7.3	8.0	7.0	8.7	8.7	8.0	8.7	6.0	6.7	6.0	6.7
204 RES. BLK4	8.0	5.3	5.0	5.0	6.0	6.3	7.0	8.3	8.3	8.7	7.3	6.0	6.3	5.7	6.3
AQUADUCT	7.3	6.7	5.7	5.7	7.0	7.3	6.3	8.0	8.0	8.0	8.0	6.7	6.7	6.0	6.3
VERT (ATF 1612)	8.3	6.7	5.7	5.7	7.3	8.0	7.0	8.7	8.7	8.3	9.0	6.7	7.0	7.0	6.3
ATF 1754	8.0	7.0	5.7	6.0	7.7	8.0	6.7	8.0	8.0	8.0	8.3	6.7	7.0	7.0	6.3
BAR FA 121089	6.7	6.3	5.3	5.3	7.7	8.0	6.7	8.0	8.0	8.0	8.7	7.0	7.3	7.0	6.3
BAR FA 121095	7.0	6.3	5.3	5.7	6.3	6.3	7.0	8.7	8.7	8.3	8.7	6.3	6.7	6.3	6.3
BULLSEYE	7.7	7.0	6.0	6.0	7.0	8.0	7.0	8.7	8.7	8.0	9.0	6.7	6.7	6.7	6.3
COMP. RES. SST	7.3	5.7	5.0	5.0	6.0	6.7	7.0	8.7	8.7	8.3	6.7	6.0	6.3	6.0	6.3
FALCON V	7.3	6.7	5.7	5.7	7.0	8.0	7.0	8.0	8.0	8.3	8.7	6.7	7.0	6.7	6.3
FESNOVA	7.3	6.3	5.3	5.3	7.7	7.3	7.3	8.0	8.0	8.3	9.0	6.7	6.3	6.3	6.3
GO-DFR	7.0	6.7	5.7	5.7	7.0	7.7	7.0	8.7	8.7	8.0	8.7	7.3	6.7	7.0	6.3
GTO (BURL TF-2)	7.7	6.7	5.7	5.7	7.0	7.7	7.0	9.0	9.0	8.0	8.7	7.3	7.0	6.3	6.3
INSPIRATION (PST-R5NW)	7.0	7.0	5.7	6.0	6.7	7.7	7.0	8.7	8.7	8.0	8.7	7.0	6.7	6.7	6.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								QUALITY RATINGS AFTER TRAFFIC RECOVERY FROM TRAFFIC				
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	PRETRAFFIC SEP 12	OCT 17 10 GAME	NOV 10 20 GAME	NOV 24 2-WEEKS	DEC 8 1-MONTH
IS-TF 272	7.7	6.7	5.7	5.7	7.0	7.7	8.0	9.0	9.0	8.7	9.0	7.3	7.3	7.0	6.3
IS-TF 276 M2	8.0	7.0	6.0	6.0	7.0	7.3	7.0	9.0	9.0	8.0	8.7	6.7	7.3	6.7	6.3
UNITUS (IS-TF 289)	8.0	7.0	6.0	6.0	7.0	7.7	7.7	8.7	8.7	8.0	9.0	7.3	7.3	7.0	6.3
HOUNDG8 (IS-TF 307 SEL)	7.7	7.0	5.7	5.7	7.3	8.0	7.0	8.7	8.7	8.3	8.3	6.7	6.7	6.3	6.3
STANDOUT (IS-TF 308 SEL)	8.0	7.0	6.0	6.0	7.7	8.3	7.0	9.0	9.0	8.3	9.0	7.0	6.3	6.0	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	8.3	7.0	6.0	6.0	7.0	7.3	7.7	9.0	9.0	8.0	9.0	6.7	6.7	6.7	6.3
IS-TF 311	8.3	6.7	5.7	5.7	7.3	8.0	7.0	8.3	8.3	8.7	8.7	7.0	6.7	6.3	6.3
K12-MCD	6.7	6.7	5.3	5.3	7.3	7.0	7.0	8.3	8.3	8.3	8.3	6.3	6.7	6.0	6.3
LEONARDO (LTP-FSD)	7.7	6.3	5.3	5.7	7.3	7.7	7.0	8.3	8.3	8.0	9.0	6.3	6.3	6.3	6.3
MET 1	8.0	5.7	5.0	5.0	7.0	6.7	6.7	9.0	9.0	8.0	8.7	6.3	6.7	6.3	6.3
REBOUNDER (PICK-W43)	8.7	6.3	5.3	5.7	7.3	7.7	7.0	9.0	9.0	8.3	9.0	6.7	7.0	6.7	6.3
XTENDER (PPG-TF-139)	7.3	6.3	5.3	5.3	5.7	6.7	7.3	9.0	9.0	8.3	8.7	6.7	6.7	6.7	6.3
DYNAMITE LS (PPG-TF-145)	7.7	7.0	6.0	5.7	6.3	7.3	7.0	8.7	8.7	8.0	9.0	7.3	7.0	6.3	6.3
SCREAMER LS (PPG-TF-148)	7.3	6.7	5.7	5.7	7.0	8.0	7.0	9.0	9.0	8.3	8.3	6.7	6.3	6.3	6.3
WICHITA (PPG-TF-151)	7.3	6.3	5.3	5.3	7.7	8.3	7.0	9.0	9.0	8.3	9.0	7.0	7.0	7.0	6.3
PSG-PO1	8.3	7.0	6.0	5.7	7.3	8.3	7.0	8.7	8.7	8.0	8.7	7.0	6.7	6.7	6.3
RAD-TF-92	7.3	6.7	5.7	5.7	7.7	8.0	7.0	8.7	8.7	8.3	9.0	6.7	6.7	6.7	6.3
RHAMBLER 2 SRP (LSD)	8.3	6.3	5.7	5.7	7.0	7.7	7.0	8.3	8.3	8.3	9.0	6.3	6.7	6.3	6.3
SALTILLO (PST-5SALT)	6.0	7.0	5.7	6.0	6.3	7.3	7.0	8.7	8.7	8.3	8.7	7.3	6.7	6.3	6.3
ROWDY (SRX-TPC)	7.3	7.0	6.0	6.0	7.7	7.7	7.0	9.0	9.0	8.3	8.7	7.3	7.3	6.3	6.3
TERRANO	7.3	6.3	5.3	5.7	7.0	7.3	7.0	8.7	9.0	8.0	9.0	7.0	6.3	6.3	6.3
REFLECTION (U45)	8.0	6.0	5.3	5.3	7.3	7.7	7.0	8.3	8.3	8.0	9.0	7.3	7.7	6.3	6.3
W41	7.3	6.7	5.0	5.7	6.3	7.0	7.0	9.0	9.0	8.3	8.7	6.7	6.7	6.3	6.3
ANNIHILATOR	8.0	6.0	5.0	5.0	6.3	7.0	7.0	8.3	8.3	8.3	7.3	5.3	6.0	5.7	6.0
HOVER (BURL TF-69)	6.3	6.7	5.7	5.7	7.3	7.7	7.0	9.0	9.0	8.0	8.0	6.7	6.3	6.0	6.0
CAESAR (TY 10)	8.0	5.7	5.0	5.3	6.7	6.7	7.0	8.3	8.3	7.7	8.7	6.0	5.7	6.7	6.0
AMITY (CCR2)	7.3	6.7	5.7	5.7	7.3	8.0	7.0	9.0	9.0	8.0	9.0	6.7	6.3	5.7	6.0
TEMPLE (DZ1)	7.3	6.3	5.3	5.3	6.0	6.0	6.0	8.3	8.3	7.3	8.7	6.0	6.3	6.3	6.0
F711	7.7	5.3	5.0	5.3	6.3	6.3	6.7	8.7	8.7	7.7	8.7	6.3	6.7	6.3	6.0
FAITH	7.7	6.7	5.7	5.7	7.3	8.0	7.0	8.7	8.7	8.7	9.0	7.7	6.7	6.3	6.0
TRENDING (IS-TF 269 SEL)	7.7	6.7	5.7	5.7	7.3	7.7	7.0	9.0	9.0	8.3	9.0	7.0	6.7	6.3	6.0
TURFWAY (IS-TF 282 M2)	8.0	6.7	5.7	5.7	8.0	7.7	7.0	9.0	9.0	8.0	9.0	7.0	7.0	6.0	6.0
IS-TF-287	7.7	6.3	5.3	5.7	7.3	7.3	7.0	8.7	8.7	8.0	8.3	6.7	6.3	6.3	6.0
ROCKWELL (LTP-TWUU)	9.0	6.0	5.0	5.0	7.0	8.0	7.0	9.0	9.0	8.3	8.7	7.0	7.0	7.0	6.0
MARAUDER	7.3	5.3	5.0	5.3	6.0	7.0	7.0	8.3	8.3	8.3	7.3	6.3	6.0	5.7	6.0
BLOODHOUND (MET 6 SEL)	7.3	6.0	5.0	5.0	5.3	6.7	7.0	8.7	8.7	8.7	9.0	6.3	6.0	5.3	6.0
MET-3	7.3	6.7	5.7	6.0	7.3	8.3	7.0	9.0	9.0	8.0	9.0	7.0	7.0	6.7	6.0
PPG-TF-135	7.3	6.3	5.3	5.7	6.0	6.7	7.0	8.7	8.7	8.0	9.0	6.0	6.3	5.7	6.0
PPG-TF-138	7.3	6.3	5.3	5.3	6.3	6.3	6.7	8.7	8.7	8.0	8.7	6.3	6.7	6.0	6.0
TITANIUM 2LS (PPG-TF-152)	7.3	6.7	5.7	5.7	7.3	7.7	7.0	8.7	8.7	8.7	8.3	6.7	7.0	6.7	6.0
THOR (PPG-TF-157)	8.3	6.7	5.7	5.7	7.3	7.7	7.3	9.0	9.0	8.7	9.0	7.0	7.0	6.7	6.0
SUPERSONIC (PPG-TF-170)	8.0	6.3	5.3	5.3	6.7	6.7	7.0	9.0	9.0	8.7	8.7	6.3	6.7	6.3	6.0
PSG-8BP2	6.7	7.0	6.0	6.0	7.0	8.3	6.3	8.3	8.3	7.7	8.7	7.0	7.0	6.3	6.0
PSG-GSD	7.7	6.0	5.0	5.3	6.7	7.0	7.0	8.0	8.0	8.0	8.3	6.3	6.7	6.0	6.0
PST-5BPO	7.3	6.3	3.7	5.3	6.7	7.7	7.0	9.0	9.0	8.0	8.7	6.7	6.7	6.3	6.0

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS										QUALITY RATINGS			
													AFTER TRAFFIC		RECOVERY FROM TRAFFIC	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP 12	OCT 17	NOV 10	NOV 24	DEC 8	
PST-5MVD	7.3	6.3	5.3	5.0	6.3	7.3	7.3	9.0	9.0	8.3	8.7	6.7	6.0	5.7	6.0	
RAD-TF-83	7.3	6.7	5.7	5.3	7.3	7.3	7.0	8.7	8.7	8.0	8.3	7.0	6.3	6.0	6.0	
RAIN DANCE (PST-5SDT)	6.7	7.0	6.0	5.3	7.3	8.0	7.0	8.3	8.3	8.3	8.0	6.7	6.0	5.3	6.0	
TECHNIQUE (RZ2)	7.0	6.0	5.3	5.3	6.7	7.3	7.0	9.0	9.0	8.3	8.7	6.0	6.3	5.7	6.0	
4TH MILLENNIUM SRP (U43)	8.3	6.3	5.3	5.3	6.7	7.0	6.3	7.3	7.3	7.7	8.7	6.0	6.3	6.3	6.0	
B23	8.3	6.7	5.7	5.7	7.7	8.0	7.7	9.0	9.0	8.3	9.0	5.7	6.0	6.0	5.7	
BAR FA 120878	5.7	7.0	5.7	6.0	6.7	7.3	6.7	8.0	8.0	8.3	8.0	6.3	6.0	5.7	5.7	
TRINITY (BIZEM)	7.7	6.3	5.3	5.3	6.3	7.0	7.0	9.0	9.0	8.3	9.0	7.0	6.7	6.3	5.7	
JS 809	8.3	6.3	5.3	5.3	7.0	7.0	7.0	9.0	9.0	8.0	8.7	6.0	6.3	6.0	5.7	
JS 818	7.3	6.0	5.3	5.3	5.7	6.0	6.7	8.0	8.0	8.0	8.3	6.0	6.0	5.7	5.7	
JS 819	7.7	6.3	5.7	5.7	7.0	7.0	6.7	8.3	8.3	8.3	8.7	6.0	6.7	6.3	5.7	
JS 825	8.3	6.3	5.7	5.7	6.3	6.7	7.0	8.3	8.3	8.0	8.0	6.0	6.0	5.3	5.7	
JS 916	7.0	6.0	5.3	5.3	5.3	6.0	6.7	8.3	8.3	8.0	9.0	5.7	6.0	6.0	5.7	
K12-13	7.0	6.3	5.3	5.3	7.0	7.7	7.3	9.0	9.0	8.0	8.7	6.7	6.7	6.7	5.7	
MICHELANGELO (LTP-F5DPDR)	7.3	6.3	5.3	5.7	7.0	7.0	7.0	8.3	8.3	8.0	8.7	6.0	6.3	5.7	5.7	
PARAMOUNT (PPG-TF-137)	7.7	6.7	5.7	5.7	7.0	7.3	7.0	9.0	9.0	8.3	8.3	6.7	6.7	6.3	5.7	
PSG-TT4	6.3	6.3	5.3	5.7	6.7	8.3	7.0	8.3	8.3	8.0	8.0	6.3	6.7	5.7	5.7	
PST-5BRK	7.3	6.7	5.3	5.3	5.7	6.3	7.0	8.7	8.7	8.3	8.0	5.7	6.3	5.7	5.7	
EMBRACE (PST-5EV2)	8.0	6.3	5.3	5.0	6.3	6.7	7.3	8.7	8.7	8.0	8.7	6.7	6.3	6.0	5.7	
MERIDIAN (PST-5GRE)	7.0	6.7	5.7	5.7	6.7	8.0	7.7	9.0	9.0	8.7	8.7	7.0	7.0	6.7	5.7	
OLYMPUS (RAD-TF-88)	7.0	6.3	5.3	5.3	7.0	7.7	7.0	9.0	9.0	8.0	9.0	6.0	6.7	6.3	5.7	
BLACK TAIL (PPG-TF-150)	7.3	6.7	5.7	5.7	7.0	7.3	7.0	8.7	8.7	8.3	8.7	6.0	6.3	5.7	5.3	
PST-5EX2	5.7	6.0	5.0	5.0	6.0	7.0	5.7	8.0	8.0	7.7	8.3	5.3	6.0	5.3	5.3	
REGENERATE	7.7	6.3	5.7	5.7	5.7	6.7	7.3	8.7	8.7	8.7	8.7	5.7	5.0	5.3	5.3	
KINGDOM (DB1)	8.0	6.0	5.0	5.3	5.7	6.3	7.0	9.0	9.0	8.0	9.0	6.0	5.7	6.0	5.0	
KY-31	3.7	6.0	5.0	5.3	6.3	7.3	5.7	7.0	5.0	5.0	5.3	5.0	4.7	4.7	5.0	
LSD VALUE	1.4	1.5	.	.	.	.	.	.	.	.	0.8	2.4	2.7	2.6	3.3
C.V. (%)	9.9	8.7	.	.	.	.	.	.	.	.	5.7	12.0	11.6	12.3	12.0

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	APRIL	PERCENT LIVING GROUND COVER RATINGS				
		PRETRAFFIC SEP 12	AFTER TRAFFIC OCT 17 10 GAME	NOV 10 20 GAME	RECOVERY FROM TRAFFIC NOV 24 2-WEEKS	DEC 8 1-MONTH
REBEL V (ATF 1736)	95.3	96.3	86.7	67.0	38.0	54.3
GRANDE 3	94.3	96.7	84.0	60.3	31.0	44.3
HEMI	94.7	96.0	82.0	63.0	36.7	53.0
PPG-TF-115	92.7	97.7	88.3	63.3	36.7	53.0
ARES (PPG-TF-142)	93.0	97.0	82.3	58.3	39.3	51.0
RAD-TF-89	87.0	96.3	77.0	56.3	33.7	49.3
TRAVERSE 2 SRP (W45)	95.3	96.0	78.7	59.3	34.3	48.7
WARHAWK	93.0	95.0	86.0	60.0	33.7	50.7
ATF 1704	93.7	96.3	81.0	58.0	30.0	47.0
BAR FA 121091	85.3	97.0	82.3	56.7	37.0	49.0
CATALYST	88.7	96.0	74.0	49.7	25.0	37.3
FALCON IV	95.0	96.7	85.7	59.0	32.7	47.0
FIREBIRD 2	82.7	96.7	69.7	43.3	25.3	45.3
FRONTLINE (EXP TF-09)	92.3	97.0	74.7	48.0	27.3	48.7
HOT ROD (BURL TF-136)	93.3	96.0	78.7	56.0	31.0	48.0
FOXHOUND (IS-TF 284 M2)	95.3	97.0	81.7	62.3	39.0	52.0
NIGHTCRAWLER (IS-TF 285)	85.0	97.3	79.0	53.0	29.3	42.0
FAYETTE (IS-TF 291)	89.7	97.3	77.0	54.0	31.7	45.3
IS-TF 305 SEL	95.0	96.7	79.7	56.3	33.0	47.7
DIABLO (IS-TF 330)	90.3	96.7	83.0	57.3	33.3	47.7
K12-05	89.0	97.0	81.0	52.7	32.7	46.0
FIRECRACKER SLS (PPG-TF-105)	90.3	97.7	82.7	54.7	31.7	51.3
AVENGER II (PPG-TF-156)	95.0	97.0	79.0	57.7	30.7	45.7
PPG-TF-169	93.3	96.0	79.0	57.7	34.3	51.0
VALKYRIE LS (PPG-TF-172)	92.3	96.3	81.7	56.3	28.7	45.0
FIREWALL (PSG-WE1)	95.3	97.0	82.0	62.0	34.7	51.7
PST-5DZP	95.0	97.0	87.0	61.3	33.0	50.0
SWAGGER (PST-5RO5)	93.3	96.7	84.0	52.0	31.7	46.7
MAESTRO (T31)	92.0	96.3	81.3	56.7	29.3	47.3
THUNDERSTRUCK (TD1)	92.0	96.7	80.7	56.3	33.0	49.0
TEMPTATION (OR-21)	93.0	97.0	82.3	57.3	34.3	48.7
RAPTOR III (ZW 44)	95.0	97.0	73.0	50.7	29.3	43.3
204 RES. BLK4	79.3	92.7	70.7	43.7	23.7	40.7
AQUADUCT	91.3	95.7	80.7	53.0	23.7	40.3
VERT (ATF 1612)	94.3	96.7	79.3	54.0	29.7	45.7
ATF 1754	95.3	96.3	80.3	56.7	33.3	50.7
BAR FA 121089	93.0	96.3	81.3	60.3	36.0	52.0
BAR FA 121095	81.0	96.3	77.7	48.7	26.7	41.3
BULLSEYE	92.7	97.3	77.7	52.0	29.0	39.7
COMP. RES. SST	85.0	94.7	71.7	41.3	23.0	36.3
FALCON V	94.3	96.3	81.7	54.7	30.3	49.0
FESNOVA	91.0	97.3	73.7	44.3	25.0	38.3
MEMPHIS (GO-DFR)	92.7	96.3	80.7	55.0	32.0	45.3
GTO (BURL TF-2)	92.3	96.3	84.0	55.7	29.0	44.7
INSPIRATION (PST-R5NW)	91.0	96.7	82.3	53.3	27.3	44.0

TABLE 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
 2014 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND COVER RATINGS					
	APRIL	AFTER TRAFFIC			RECOVERY FROM TRAFFIC	
		PRETRAFFIC SEP 12	OCT 17 10 GAME	NOV 10 20 GAME	NOV 24 2-WEEKS	DEC 8 1-MONTH
IS-TF 272	92.0	97.0	82.0	53.3	27.7	44.3
IS-TF 276 M2	90.3	96.7	80.3	57.7	33.0	45.3
UNITUS (IS-TF 289)	91.3	97.3	86.3	59.3	34.7	47.7
HOUNDOG8 (IS-TF 307 SEL)	93.0	96.3	78.7	49.3	25.3	36.0
STANDOUT (IS-TF 308 SEL)	94.7	96.7	81.3	48.7	24.7	42.3
IS-TF 310 SEL	90.7	96.3	79.0	49.7	30.3	43.7
IS-TF 311	94.3	97.0	83.3	54.0	27.0	44.3
K12-MCD	89.0	96.3	70.7	50.3	28.3	38.7
LEONARDO (LTP-FSD)	89.3	96.7	76.7	51.3	26.3	48.7
MET 1	87.0	96.0	77.7	49.7	30.3	42.0
REBOUNDER (PICK-W43)	91.3	97.0	76.0	55.7	30.7	45.0
XTENDER (PPG-TF-139)	84.7	96.3	79.3	53.7	32.0	44.3
DYNAMITE LS (PPG-TF-145)	90.0	97.0	81.0	52.7	29.7	44.0
SCREAMER LS (PPG-TF-148)	92.7	96.3	79.7	56.0	30.0	45.7
WICHITA (PPG-TF-151)	93.7	96.3	81.3	58.7	33.7	46.7
PSG-PO1	94.0	96.7	78.3	54.3	31.3	45.3
RAD-TF-92	94.0	97.0	77.7	50.7	28.0	43.7
RHAMBLER 2 SRP (LSD)	92.3	96.7	75.3	47.3	26.7	42.0
SALTILLO (PST-5SALT)	87.7	96.7	86.7	55.7	28.0	46.0
ROWDY (SRX-TPC)	91.7	96.7	85.7	57.7	28.3	41.7
TERRANO	90.3	95.7	78.3	47.3	27.3	40.7
REFLECTION (U45)	92.7	96.3	82.0	60.3	31.0	48.3
W41	85.0	96.7	75.7	54.0	31.3	42.3
ANNIHILATOR	81.7	93.0	68.0	42.3	22.3	38.3
HOVER (BURL TF-69)	93.0	97.0	77.7	49.7	30.0	39.7
CAESAR (TY 10)	85.7	97.3	66.3	35.0	24.0	37.3
AMITY (CCR2)	91.0	96.7	80.7	48.3	25.3	42.0
TEMPLE (DZ1)	76.7	96.3	69.3	40.7	25.3	37.7
F711	84.0	96.7	77.3	46.7	24.7	36.7
FAITH	93.3	97.0	84.3	53.0	29.3	45.3
TRENDING (IS-TF 269 SEL)	92.3	97.0	79.0	45.7	25.0	39.3
TURFWAY (IS-TF 282 M2)	93.0	96.7	78.7	49.7	29.3	46.7
IS-TF-287	91.7	95.3	79.0	52.3	30.0	42.3
ROCKWELL (LTP-TWUU)	92.0	95.7	81.0	52.3	30.3	45.0
MARAUDER	87.3	93.3	72.3	43.3	25.0	38.7
BLOODHOUND (MET 6 SEL)	84.3	96.3	76.0	39.7	23.7	38.3
MET-3	93.3	96.3	84.0	57.3	34.7	42.3
PPG-TF-135	85.0	96.7	72.7	42.0	23.3	42.3
PPG-TF-138	80.3	97.3	77.3	46.3	24.3	40.7
TITANIUM 2LS (PPG-TF-152)	92.3	97.0	79.3	59.0	32.7	43.7
THOR (PPG-TF-157)	90.7	97.0	79.7	51.0	29.7	44.3
SUPERSONIC (PPG-TF-170)	86.0	96.7	79.7	53.0	32.7	45.7
PSG-8BP2	94.7	96.0	78.0	53.3	30.0	39.0
PSG-GSD	87.0	96.3	75.7	45.7	25.3	38.3
PST-5BPO	91.0	96.3	83.0	56.3	30.7	46.3

TABLE 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
 2014 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND COVER RATINGS					
	APRIL	AFTER TRAFFIC			RECOVERY FROM TRAFFIC	
		PRETRAFFIC SEP 12	OCT 17 10 GAME	NOV 10 20 GAME	NOV 24 2-WEEKS	DEC 8 1-MONTH
PST-5MVD	88.3	96.3	78.3	43.0	22.0	36.3
RAD-TF-83	91.3	95.7	78.7	48.7	26.0	40.0
RAIN DANCE (PST-5SDT)	93.3	96.7	83.0	42.3	22.0	35.3
TECHNIQUE (RZ2)	90.0	96.0	65.0	45.7	26.7	37.3
4TH MILLENNIUM SRP (U43)	80.0	97.0	65.3	40.7	23.3	35.7
B23	93.0	96.7	66.3	43.3	27.3	38.0
BAR FA 120878	91.3	96.3	79.7	46.7	25.7	39.0
TRINITY (BIZEM)	90.0	96.7	82.0	56.3	29.3	42.7
JS 809	86.7	97.0	69.3	40.0	24.0	32.7
JS 818	76.7	96.3	69.0	35.0	20.0	30.0
JS 819	86.3	96.7	70.3	47.3	24.7	36.0
JS 825	84.0	95.0	67.3	36.0	22.7	33.0
JS 916	76.0	96.3	65.7	36.0	20.7	33.7
K12-13	91.3	96.7	82.3	51.3	32.3	42.7
MICHELANGELO (LTP-F5DPDR)	89.0	97.3	73.0	39.0	20.3	35.3
PARAMOUNT (PPG-TF-137)	89.0	96.3	80.7	49.7	27.3	34.3
PSG-TT4	93.3	96.3	82.3	56.0	29.7	44.0
PST-5BRK	81.3	97.0	72.7	40.7	20.7	37.7
EMBRACE (PST-5EV2)	85.7	96.7	82.0	47.7	24.7	37.7
MERIDIAN (PST-5GRB)	90.3	96.0	85.3	58.0	31.0	41.7
OLYMPUS (RAD-TF-88)	91.0	97.0	69.7	44.7	25.0	35.3
BLACK TAIL (PPG-TF-150)	90.7	96.3	73.3	46.0	23.7	32.3
PST-5EX2	84.3	97.0	67.0	35.0	16.3	30.0
REGENERATE	88.3	96.7	57.3	23.0	13.0	23.7
KINGDOM (DB1)	80.7	96.0	69.7	35.0	19.3	26.3
KY-31	88.3	90.7	65.3	25.7	16.0	27.0
LSD VALUE	16.9	2.4	37.7	49.3	38.7	33.1
C.V. (%)	7.2	1.2	12.4	25.4	29.8	22.4

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA

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

NAME	TDR MOISTURE PROBE RATINGS AFTER TRAFFIC					CLEGG (GMAX) RATINGS AFTER TRAFFIC				
	PRETRAFFIC SEP 12	5 GAME SEP 25	10 GAME OCT 10	15 GAME OCT 30	20 GAME NOV 10	PRETRAFFIC SEP 12	5 GAME SEP 25	10 GAME OCT 10	15 GAME OCT 30	20 GAME NOV 10
REBEL V (ATF 1736)	33.3	36.3	34.3	35.3	29.7	46.3	68.0	32.7	49.0	40.0
GRANDE 3	34.7	37.3	36.0	34.3	31.7	52.3	69.3	29.3	53.0	46.3
HEMI	35.0	39.0	33.7	33.3	29.7	43.3	71.7	31.7	48.3	50.0
PPG-TF-115	33.3	36.7	35.0	35.0	31.0	44.0	60.3	27.3	40.3	50.7
ARES (PPG-TF-142)	33.7	36.0	32.7	34.3	30.3	53.3	70.3	35.0	47.0	56.0
RAD-TF-89	32.7	36.7	34.3	34.7	30.0	47.3	65.3	32.3	53.0	53.3
TRAVERSE 2 SRP (W45)	33.7	37.0	36.7	35.3	30.3	43.3	73.0	31.3	44.7	49.0
WARHAWK	31.7	37.7	32.0	32.7	29.0	47.7	73.7	38.3	47.0	55.7
ATF 1704	35.7	37.0	35.0	35.7	33.7	46.0	64.7	27.0	40.3	37.7
BAR FA 121091	35.0	36.7	36.0	35.3	31.7	45.3	69.3	31.3	43.0	45.7
CATALYST	32.3	33.7	35.0	33.3	30.7	56.0	74.3	31.7	45.7	40.7
FALCON IV	36.0	38.7	35.7	37.0	33.3	45.7	64.3	31.3	46.3	43.3
FIREBIRD 2	36.0	37.7	34.3	32.7	29.3	53.0	63.7	34.3	49.3	57.3
FRONTLINE (EXP TF-09)	32.3	35.3	34.0	34.0	30.7	47.3	69.3	28.3	45.0	54.7
HOT ROD (BURL TF-136)	35.3	36.3	35.0	37.0	33.7	42.7	69.7	24.7	44.3	49.3
FOXHOUND (IS-TF 284 M2)	31.3	35.0	35.7	34.7	31.0	52.3	77.3	27.7	48.7	42.0
NIGHTCRAWLER (IS-TF 285)	34.3	36.7	34.0	32.7	32.3	46.0	70.3	28.3	43.3	48.3
FAYETTE (IS-TF 291)	31.3	39.0	34.7	32.7	30.3	48.0	73.3	34.7	49.0	47.0
IS-TF 305 SEL	33.0	35.3	35.0	35.3	32.3	50.7	73.0	34.0	45.7	41.7
DIABLO (IS-TF 330)	35.3	38.0	35.7	37.7	34.3	50.0	65.3	32.3	44.3	39.7
K12-05	35.0	35.7	35.0	34.0	31.7	57.7	74.7	34.7	43.7	63.0
FIRECRACKER SLS (PPG-TF-105)	35.3	36.7	34.3	33.7	32.3	48.7	75.7	38.3	44.3	64.7
AVENGER II (PPG-TF-156)	34.3	39.0	36.0	35.3	32.3	52.0	67.7	31.7	43.7	51.7
PPG-TF-169	36.7	40.7	34.0	35.7	33.0	46.3	64.0	28.3	42.7	48.3
VALKYRIE LS (PPG-TF-172)	35.7	36.0	33.0	36.7	31.3	46.0	79.0	39.7	43.7	53.3
FIREWALL (PSG-WE1)	36.3	38.0	34.7	36.3	32.0	41.7	58.7	28.3	44.7	41.3
PST-5DZP	36.3	36.0	33.7	35.0	31.7	44.0	73.0	32.3	48.7	40.3
SWAGGER (PST-5RO5)	34.0	39.0	36.3	34.0	30.7	51.0	72.7	28.3	46.0	60.7
MAESTRO (T31)	37.0	37.7	33.7	36.3	31.7	51.0	66.7	30.7	48.7	54.0
THUNDERSTRUCK (TD1)	35.3	38.0	33.3	35.0	32.7	44.0	67.3	30.3	47.7	45.3
TEMPTATION (OR-21)	31.7	34.7	35.0	35.3	31.7	49.7	77.3	37.0	54.0	49.0
RAPTOR III (ZW 44)	34.3	38.7	35.0	36.0	31.7	50.7	70.0	34.7	43.3	61.0
204 RES. BLK4	29.7	33.0	33.3	32.7	30.7	60.7	85.0	42.3	52.3	60.7
AQUADUCT	32.0	36.0	34.7	33.7	33.7	55.3	80.7	38.0	44.3	38.0
VERT (ATF 1612)	35.0	36.3	35.7	35.0	30.7	53.3	70.3	36.0	43.7	56.0
ATF 1754	35.3	36.7	34.7	34.0	30.0	51.0	77.7	30.0	45.0	43.3
BAR FA 121089	35.0	37.0	35.3	33.0	30.0	44.0	72.0	32.0	45.0	51.3
BAR FA 121095	36.3	35.7	36.0	36.3	33.0	40.0	67.3	33.3	41.3	52.3
BULLSEYE	35.7	37.3	36.7	34.3	32.0	44.3	70.0	34.0	44.0	54.3
COMP. RES. SST	32.7	35.7	34.0	33.7	31.7	49.0	71.0	37.0	46.3	42.0
FALCON V	35.0	40.0	36.0	36.7	32.0	45.3	65.3	32.0	49.0	55.3
FESNOVA	33.3	35.7	34.0	35.7	32.0	48.7	65.3	29.7	54.3	56.3
MEMPHIS (GO-DFR)	32.7	34.0	33.7	36.3	30.3	45.3	74.3	35.0	49.3	46.3
GTO (BURL TF-2)	34.3	36.7	35.0	36.0	31.7	47.3	68.3	28.0	48.0	49.7
INSPIRATION (PST-R5NW)	37.3	40.0	36.0	39.7	33.0	41.7	64.0	31.0	42.3	41.0

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA

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

NAME	TDR MOISTURE PROBE RATINGS AFTER TRAFFIC					CLEGG (GMAX) RATINGS AFTER TRAFFIC				
	PRETRAFFIC SEP 12	5 GAME SEP 25	10 GAME OCT 10	15 GAME OCT 30	20 GAME NOV 10	PRETRAFFIC SEP 12	5 GAME SEP 25	10 GAME OCT 10	15 GAME OCT 30	20 GAME NOV 10
IS-TF 272	34.3	34.3	33.7	35.0	28.7	50.7	67.7	32.7	48.7	58.3
IS-TF 276 M2	33.3	33.7	34.7	35.7	32.3	55.3	73.3	34.7	46.0	40.3
UNITUS (IS-TF 289)	34.7	35.0	33.0	32.3	30.7	47.3	66.3	32.0	47.0	56.7
HOUNDOG8 (IS-TF 307 SEL)	35.0	35.0	36.0	35.3	31.7	48.0	64.7	27.0	41.7	49.3
STANDOUT (IS-TF 308 SEL)	35.0	37.3	34.7	35.7	31.7	48.0	71.7	31.7	43.3	53.7
IS-TF 310 SEL	38.3	37.3	37.0	36.3	33.3	43.7	64.7	31.0	48.0	59.0
IS-TF 311	35.3	36.0	34.7	34.7	32.7	45.0	69.3	29.0	41.3	41.0
K12-MCD	36.0	36.3	36.3	33.7	34.0	44.3	68.0	29.0	45.7	44.7
LEONARDO (LTP-FSD)	32.7	36.7	35.0	34.7	30.3	55.3	82.3	38.0	52.3	48.0
MET 1	36.0	36.7	36.3	36.3	32.7	49.3	74.0	33.0	48.7	58.7
REBOUNDER (PICK-W43)	35.0	36.0	34.7	36.0	33.3	42.3	63.0	28.3	50.7	47.0
XTENDER (PPG-TF-139)	36.0	38.3	35.7	34.3	31.0	51.3	74.7	29.0	45.0	58.7
DYNAMITE LS (PPG-TF-145)	35.3	36.0	35.0	36.0	31.7	48.3	71.0	30.3	47.3	42.7
SCREAMER LS (PPG-TF-148)	35.0	37.3	36.0	34.7	31.7	47.3	75.3	35.0	49.3	59.7
WICHITA (PPG-TF-151)	34.0	38.0	34.7	32.7	30.0	48.7	67.3	29.0	47.0	45.7
PSG-PO1	33.0	35.3	34.0	33.7	31.7	45.0	68.0	25.7	53.0	59.0
RAD-TF-92	34.3	36.3	31.3	34.7	29.0	50.7	74.0	34.3	43.0	53.7
RHAMBLER 2 SRP (LSD)	32.3	38.3	36.0	32.7	30.7	54.0	73.3	35.3	45.0	50.0
SALTILLO (PST-5SALT)	34.7	35.3	34.7	36.3	32.3	46.3	65.3	31.7	48.3	44.0
ROWDY (SRX-TPC)	36.7	38.0	36.0	36.3	32.7	43.3	61.7	29.3	45.7	46.7
TERRANO	34.0	32.7	34.0	33.7	29.3	49.7	79.7	31.0	47.7	57.0
REFLECTION (U45)	34.3	34.0	35.7	37.3	31.3	46.0	64.0	28.0	44.3	45.0
W41	35.0	37.0	34.7	34.7	33.3	47.0	71.3	30.0	42.0	43.7
ANNIHILATOR	32.3	33.3	34.0	34.0	31.3	49.7	80.0	37.0	48.0	57.3
HOVER (BURL TF-69)	36.7	37.3	36.3	35.0	31.3	42.7	70.0	29.3	42.3	52.7
CAESAR (TY 10)	33.3	37.0	32.3	33.3	29.3	58.7	69.3	32.7	47.7	56.7
AMITY (CCR2)	36.3	37.7	36.0	34.3	31.3	47.0	70.0	28.3	43.0	54.3
TEMPLE (DZ1)	34.0	37.0	33.0	33.3	29.3	59.7	74.7	39.3	52.0	62.7
F711	35.0	35.3	35.7	37.0	33.0	58.3	77.3	38.0	51.3	51.3
FAITH	36.0	38.7	36.0	35.3	31.3	53.0	66.3	27.0	45.7	52.3
TRENDING (IS-TF 269 SEL)	33.0	34.7	33.0	34.7	31.7	48.3	80.7	30.3	50.0	43.7
TURFWAY (IS-TF 282 M2)	32.0	34.7	32.7	34.7	31.7	49.0	78.7	39.3	52.3	54.7
IS-TF-287	35.0	34.7	35.0	34.0	30.7	45.3	71.3	31.7	47.7	43.0
ROCKWELL (LTP-TWUU)	34.7	37.0	35.0	36.3	30.0	45.0	65.3	30.3	51.0	47.0
MARAUDER	32.3	33.7	34.7	32.3	31.0	56.0	73.3	33.7	54.0	49.3
BLOODHOUND (MET 6 SEL)	35.3	37.0	35.7	34.0	31.3	49.3	62.3	29.0	49.3	59.3
MET-3	37.0	39.3	36.7	38.0	35.3	51.3	79.0	33.3	43.3	47.0
PPG-TF-135	33.0	35.7	36.0	37.0	32.3	50.0	68.3	37.0	48.3	46.3
PPG-TF-138	36.7	36.7	34.3	35.0	27.7	45.3	71.0	37.0	47.3	54.3
TITANIUM 2LS (PPG-TF-152)	34.7	38.0	34.7	35.0	32.3	54.0	72.0	31.7	47.3	64.7
THOR (PPG-TF-157)	35.3	39.7	36.0	33.7	31.3	48.0	71.0	25.0	47.3	53.3
SUPERSONIC (PPG-TF-170)	35.3	37.0	35.3	35.0	32.0	44.3	63.0	29.3	46.0	43.3
PSG-8BP2	32.7	36.7	33.3	33.7	30.7	52.0	65.3	31.3	46.3	39.7
PSG-GSD	33.0	38.3	35.0	34.7	31.3	53.0	72.0	35.7	50.3	56.3
PST-5BPO	35.7	33.0	34.7	36.3	33.7	43.7	68.3	28.0	50.3	50.7

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2014 DATA

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

NAME	TDR MOISTURE PROBE RATINGS AFTER TRAFFIC					CLEGG (GMAX) RATINGS AFTER TRAFFIC				
	PRETRAFFIC SEP 12	5 GAME SEP 25	10 GAME OCT 10	15 GAME OCT 30	20 GAME NOV 10	PRETRAFFIC SEP 12	5 GAME SEP 25	10 GAME OCT 10	15 GAME OCT 30	20 GAME NOV 10
PST-5MVD	35.0	34.3	38.3	36.7	33.0	39.7	64.3	30.7	49.0	60.7
RAD-TF-83	35.0	36.3	35.0	36.0	32.3	44.0	60.3	27.7	47.3	52.0
RAIN DANCE (PST-5SDT)	35.7	38.0	37.0	33.3	31.0	42.7	66.3	24.3	43.0	57.0
TECHNIQUE (RZ2)	35.0	34.3	35.0	37.3	33.7	51.3	73.3	32.7	44.0	40.0
4TH MILLENNIUM SRP (U43)	34.3	38.0	36.3	33.3	28.7	59.0	77.0	36.0	48.3	55.0
B23	35.7	39.3	35.3	33.3	30.0	46.7	73.0	34.3	46.0	65.0
BAR FA 120878	34.7	36.0	35.7	34.0	31.7	43.0	64.0	31.3	50.3	47.7
TRINITY (BIZEM)	34.3	36.7	36.7	37.0	33.0	51.0	64.0	27.0	51.3	53.7
JS 809	33.3	37.0	35.3	36.7	31.7	51.3	68.0	25.3	46.0	61.7
JS 818	33.7	36.3	34.3	34.7	32.0	56.7	70.3	33.0	51.0	51.0
JS 819	32.0	32.7	33.3	34.0	28.3	55.0	72.3	38.7	50.0	59.7
JS 825	32.7	35.7	33.7	34.7	31.3	43.3	74.0	29.3	48.7	58.7
JS 916	33.0	33.7	34.3	33.7	30.0	53.3	72.7	30.0	54.3	54.7
K12-13	35.3	35.7	36.0	38.0	33.0	44.0	64.0	29.7	46.3	46.7
MICHELANGELO (LTP-F5DPDR)	33.3	38.0	37.7	32.3	31.0	55.0	62.3	33.7	46.7	64.0
PARAMOUNT (PPG-TF-137)	34.7	35.7	35.3	36.3	33.0	50.7	72.7	33.7	45.0	48.7
PSG-TT4	34.7	35.3	35.0	34.3	32.0	47.7	64.3	30.0	45.3	55.0
PST-5BRK	32.7	35.7	35.0	34.0	30.7	45.0	74.0	35.7	46.3	50.0
EMBRACE (PST-5EV2)	33.7	37.3	36.7	36.0	32.3	43.0	70.0	29.7	42.3	52.3
MERIDIAN (PST-5GRB)	34.0	37.0	36.0	37.3	33.7	44.0	67.0	33.0	40.0	45.7
OLYMPUS (RAD-TF-88)	35.7	37.7	36.3	35.3	29.0	49.3	70.0	30.0	42.7	51.7
BLACK TAIL (PPG-TF-150)	37.3	35.7	37.3	36.0	32.3	45.3	72.3	27.0	44.3	43.3
PST-5EX2	35.7	37.7	34.7	31.0	30.7	58.3	69.7	40.3	54.7	51.7
REGENERATE	33.7	35.0	36.3	35.0	31.7	46.7	66.3	29.0	52.7	45.7
KINGDOM (DB1)	34.7	37.3	37.3	37.0	31.7	46.7	66.0	34.0	43.3	55.7
KY-31	33.0	33.7	34.3	33.0	30.0	52.7	64.7	38.3	49.7	44.0
LSD VALUE	7.8	9.5	6.8	9.2	7.7	39.6	29.5	25.5	24.3	57.0
C.V. (%)	6.9	7.3	5.6	7.0	7.0	17.0	11.8	19.7	12.4	23.8

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS									QUALITY RATINGS			
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP 12	PRETRAFFIC	AFTER TRAFFIC OCT 13 10 GAME	RECOVERY NOV 17 20 GAME	RECOVERY DEC 1 2-WEEKS	RECOVERY DEC 15 1-MONTH
FIRECRACKER SLS (PPG-TF-105)	7.0	7.3	7.3	8.0	7.7	8.3	8.0	8.0	8.0	7.7	7.7	7.7	7.3	7.3
ARES (PPG-TF-142)	7.7	7.3	7.3	8.0	8.0	8.7	9.0	8.7	7.7	8.7	7.7	7.3	7.3	7.0
FALCON IV	6.7	7.3	7.3	8.0	8.3	8.7	8.0	8.0	8.3	7.0	7.3	7.3	7.3	7.0
HEMI	7.0	8.3	8.0	8.0	8.7	8.3	8.0	8.3	8.7	7.7	6.7	8.0	7.3	7.0
RAD-TF-89	7.0	8.0	8.0	8.3	8.0	8.0	8.3	7.7	8.0	8.0	6.7	6.7	6.7	7.0
WARHAWK	6.3	8.3	8.0	8.0	8.0	8.7	8.0	8.0	8.7	8.0	7.3	7.7	7.7	7.0
VERT (ATF 1612)	7.0	7.3	7.0	7.7	8.0	8.7	8.0	8.0	8.3	8.0	6.7	7.3	7.0	6.7
REBEL V (ATF 1736)	7.0	8.3	8.0	8.0	8.0	9.0	8.0	8.3	8.0	8.0	7.3	8.0	7.3	6.7
AVENGER II (PPG-TF-156)	7.0	8.0	7.7	8.0	8.0	8.7	8.0	8.3	8.7	8.0	7.0	7.3	7.0	6.7
B23	7.3	6.7	6.7	7.3	7.7	8.3	8.7	8.3	8.0	8.3	6.7	7.0	6.7	6.7
BAR FA 121089	7.0	7.3	7.3	7.7	8.0	8.0	7.7	7.3	8.7	7.7	7.0	7.3	7.3	6.7
CROSSFIRE 4 (IS-TF 310 SEL)	7.3	8.0	7.3	7.7	8.3	9.0	8.3	8.7	8.0	8.3	7.3	7.3	6.7	6.7
FALCON V	6.3	8.0	7.7	7.7	8.3	8.7	8.0	8.0	8.0	7.7	7.0	7.7	7.3	6.7
FAYETTE (IS-TF 291)	7.3	7.3	7.3	7.7	8.0	8.3	8.3	8.7	8.3	8.3	7.0	7.0	7.0	6.7
FESNOVA	7.0	7.3	7.7	7.7	8.3	8.7	8.0	8.0	8.3	7.7	7.3	7.0	6.3	6.7
K12-05	6.7	7.0	7.0	7.3	8.0	9.0	8.7	8.7	8.3	8.0	7.7	7.0	7.0	6.7
K12-13	7.7	7.3	7.0	7.7	8.3	8.7	8.7	8.7	8.3	8.3	7.0	7.0	7.0	6.7
MAESTRO (T31)	7.3	8.0	7.7	8.3	8.3	8.7	8.0	8.7	8.0	8.0	7.0	7.0	7.0	6.7
PPG-TF-115	7.0	7.7	7.3	8.3	8.0	8.7	8.0	8.3	8.3	7.7	7.3	7.3	7.0	6.7
PPG-TF-169	7.0	7.7	8.0	7.7	8.7	8.3	8.0	8.0	8.0	8.0	6.7	7.0	7.0	6.7
PST-5DZP	7.0	7.7	7.3	7.7	8.7	9.0	8.3	8.0	8.3	8.0	7.7	7.3	7.3	6.7
RAPTOR III (ZW 44)	7.0	7.7	7.0	7.7	8.3	8.0	8.3	9.0	8.3	8.0	7.0	7.3	7.0	6.7
RHAMBLER 2 SRP (LSD)	7.3	7.7	7.3	7.7	8.3	8.7	8.0	8.3	8.0	7.7	7.0	7.7	7.0	6.7
RHIZING MOON (IS-TF 305 SEL)	7.7	8.0	7.7	7.7	8.7	9.0	8.3	9.0	8.3	8.7	7.3	7.7	7.0	6.7
ROWDY (SRX-TPC)	7.7	7.0	7.0	7.3	7.7	8.7	8.3	8.0	8.3	8.3	7.0	7.7	6.7	6.7
TEMPTATION (OR-21)	7.7	8.0	7.7	8.3	8.7	8.7	8.3	8.7	8.0	8.3	7.0	7.0	6.7	6.7
THOR (PPG-TF-157)	6.7	7.0	7.0	8.0	8.0	8.3	8.3	8.7	8.0	7.7	7.0	6.7	6.7	6.7
TITANIUM 2LS (PPG-TF-152)	6.7	7.3	7.3	7.7	8.0	8.3	8.3	8.0	8.3	8.0	7.0	7.3	7.0	6.7
TRAVERSE 2 SRP (W45)	8.0	8.0	8.0	8.0	9.0	9.0	8.0	8.7	8.7	7.7	6.3	7.0	7.0	6.7
TURFWAY (IS-TF 282 M2)	7.7	7.3	7.3	8.3	8.0	9.0	8.7	8.7	8.3	8.7	6.3	7.0	6.7	6.7
WICHITA (PPG-TF-151)	7.3	8.0	7.7	7.7	8.3	8.3	8.0	8.0	8.3	8.0	7.0	7.7	7.3	6.7
4TH MILLENNIUM SRP (U43)	7.3	7.3	7.3	7.7	8.0	7.0	7.0	8.3	8.7	8.0	6.0	7.3	6.3	6.3
ATF 1704	7.0	7.7	7.3	7.7	8.3	8.7	8.0	8.3	8.3	8.3	7.0	7.0	6.3	6.3
DIABLO (IS-TF 330)	7.3	7.3	7.0	7.3	7.7	8.7	8.3	9.0	8.3	8.3	8.0	7.3	6.7	6.3
DYNAMITE LS (PPG-TF-145)	7.0	6.3	6.7	7.0	7.7	8.7	8.3	8.7	9.0	8.3	6.7	6.7	6.7	6.3
FIREWALL (PSG-WE1)	7.3	7.3	7.0	7.7	8.3	8.7	8.3	8.7	8.7	8.3	7.0	7.3	6.7	6.3
FOXHOUND (IS-TF 284 M2)	7.7	8.0	8.0	8.0	8.3	9.0	8.7	8.7	8.3	8.0	7.0	7.0	6.3	6.3
GRANDE 3	7.0	7.7	7.3	8.3	8.7	8.7	8.3	8.7	8.7	7.7	7.3	7.3	7.3	6.3
HOT ROD (BURL TF-136)	7.3	7.7	7.3	8.0	8.3	9.0	8.3	8.7	8.3	8.3	6.3	7.3	7.0	6.3
INSPIRATION (PST-R5NW)	7.3	7.3	6.7	7.3	8.0	8.3	8.0	8.3	8.7	8.0	8.0	7.3	6.3	6.3
TRENDING (IS-TF 269 SEL)	7.7	7.0	6.7	7.3	8.0	9.0	8.3	9.0	9.0	8.3	6.7	6.7	6.0	6.3
IS-TF 272	7.3	7.3	7.0	7.7	8.0	9.0	9.0	8.3	8.0	8.3	7.3	7.3	6.7	6.3
IS-TF 276 M2	7.0	7.0	7.3	7.0	8.0	9.0	8.3	8.3	8.3	8.0	7.7	7.3	6.7	6.3
STANDOUT (IS-TF 308 SEL)	7.0	7.3	7.0	7.0	8.0	8.3	8.7	9.0	8.3	8.0	7.3	6.7	6.7	6.3
IS-TF-287	6.7	7.3	7.0	8.0	8.3	8.3	8.3	8.3	8.7	7.7	7.3	6.7	6.3	6.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS										QUALITY RATINGS			
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	PRETRAFFIC SEP 12	AFTER TRAFFIC OCT 13 10 GAME	RECOVERY NOV 17 20 GAME	RECOVERY DEC 1 2-WEEKS	RECOVERY DEC 15 1-MONTH	
K12-MCD	6.7	7.0	6.7	7.3	7.7	8.3	8.0	7.7	7.7	7.3	7.0	6.7	6.0	6.3	
LEONARDO (LTP-FSD)	7.0	7.7	7.7	7.7	8.7	8.3	8.0	8.0	8.3	7.7	6.7	6.7	6.7	6.3	
MEMPHIS (GO-DFR)	7.0	7.7	7.7	8.3	9.0	9.0	7.3	8.0	8.0	8.0	7.7	6.7	7.0	6.3	
NIGHTCRAWLER (IS-TF 285)	7.3	7.0	7.7	7.0	8.0	8.3	8.0	8.3	8.7	7.7	6.7	6.3	6.0	6.3	
PARAMOUNT (PPG-TF-137)	7.0	7.3	7.0	7.3	7.7	8.7	8.3	8.0	8.3	8.0	6.7	7.0	6.3	6.3	
'SUPERSONIC (PPG-TF-170)	7.3	7.3	6.7	7.3	8.0	8.3	8.3	8.3	8.0	7.7	7.3	7.3	6.7	6.3	
PSG-8BP2	7.0	7.3	7.0	7.7	7.7	8.3	8.0	8.0	8.0	7.7	7.3	7.3	6.7	6.3	
PSG-PO1	7.0	7.0	7.3	8.0	8.0	8.0	8.3	8.3	8.3	8.3	6.7	6.7	6.7	6.3	
PST-5BPO	7.0	7.3	7.3	8.0	8.0	8.3	8.0	8.3	8.0	7.7	7.3	6.7	6.7	6.3	
PST-5MVD	6.3	7.0	6.7	7.3	7.7	8.7	8.0	8.7	8.0	7.7	7.7	6.3	6.3	6.3	
REFLECTION (U45)	7.7	7.7	7.3	8.0	8.0	9.0	8.3	8.7	9.0	8.0	7.0	7.3	7.0	6.3	
SCREAMER LS (PPG-TF-148)	7.0	7.0	6.7	8.0	8.0	8.3	8.7	8.0	8.0	8.0	6.3	7.0	6.3	6.3	
TEMPLE (DZ1)	7.3	7.7	8.0	7.3	8.0	8.0	8.3	8.3	8.3	8.0	5.0	6.7	6.0	6.3	
THUNDERSTRUCK (TD1)	8.0	8.0	7.7	7.7	8.0	8.3	8.3	8.7	8.0	8.3	6.3	7.3	6.7	6.3	
UNITUS (IS-TF 289)	7.0	7.3	7.3	7.7	8.3	9.0	8.7	8.3	8.0	8.0	7.7	6.3	6.7	6.3	
XTENDER (PPG-TF-139)	7.3	7.3	7.0	7.7	8.0	8.7	8.7	8.3	8.3	8.3	7.0	7.0	6.7	6.3	
AMITY (CCR2)	7.0	7.0	6.7	8.0	8.0	8.7	8.3	8.7	8.3	8.0	6.3	6.3	6.0	6.0	
AQUADUCT	6.3	7.3	7.3	7.7	8.0	8.3	8.0	8.0	8.0	7.3	7.3	7.0	6.3	6.0	
ATF 1754	6.3	7.7	7.7	7.7	8.3	9.0	8.0	8.0	8.0	7.7	6.0	7.0	6.7	6.0	
BAR FA 120878	6.0	6.7	6.3	7.0	7.3	7.3	7.3	7.7	8.0	7.3	7.0	6.0	6.0	6.0	
BAR FA 121091	6.7	8.0	7.3	7.7	7.7	8.3	8.0	8.3	8.3	7.7	7.7	6.7	6.0	6.0	
BAR FA 121095	6.0	7.3	7.0	7.3	8.0	8.0	7.7	8.3	8.3	7.0	7.7	6.3	6.0	6.0	
TRINITY (BIZEM)	7.0	7.0	6.7	7.3	8.0	8.7	8.3	8.3	9.0	8.0	7.0	6.3	6.0	6.0	
CATALYST	7.0	7.0	6.7	8.0	8.3	8.7	8.0	8.0	8.0	8.0	6.3	6.0	6.0	6.0	
COMP. RES. SST	6.3	7.0	6.7	7.3	7.7	8.0	8.0	8.3	8.3	7.7	5.7	7.0	6.3	6.0	
EMBRACE (PST-5EV2)	6.7	7.0	6.3	7.0	7.3	8.3	8.3	8.3	8.3	7.7	7.0	6.3	6.3	6.0	
F711	7.3	7.0	7.0	7.7	7.7	8.0	8.3	8.7	8.3	8.3	6.7	6.7	6.3	6.0	
FAITH	7.3	7.0	7.0	7.3	8.0	8.0	8.0	8.7	8.3	8.0	6.7	7.0	6.3	6.0	
FIREBIRD 2	6.7	7.7	7.0	7.0	8.0	7.7	7.3	8.3	8.0	7.0	6.3	6.3	6.3	6.0	
FRONTLINE (EXP TF-09)	7.0	7.0	7.0	7.3	8.3	8.7	8.0	8.0	8.3	7.7	7.0	6.3	6.3	6.0	
GTO (BURL TF-2)	7.3	8.0	7.0	8.3	8.7	9.0	8.0	8.3	8.3	8.0	7.0	7.3	6.7	6.0	
HOVER (BURL TF-69)	7.0	7.0	7.0	7.7	8.0	8.3	8.3	8.3	8.3	7.7	7.0	7.0	6.7	6.0	
IS-TF 311	6.7	7.3	7.0	8.0	8.3	9.0	8.3	8.3	8.3	7.7	7.3	6.7	6.7	6.0	
MERIDIAN (PST-5GRB)	6.3	7.0	6.7	7.7	8.3	9.0	8.0	8.0	8.3	8.3	7.7	7.0	6.3	6.0	
MET 1	7.0	7.3	6.7	7.3	7.3	8.0	8.0	8.7	8.7	8.0	7.3	7.0	6.7	6.0	
OLYMPUS RAD-TF-88)	6.0	7.3	6.3	7.0	8.0	8.0	8.7	8.7	8.3	7.3	7.7	7.0	6.7	6.0	
PPG-TF-135	7.3	7.0	6.7	7.0	7.7	8.3	8.3	8.3	8.3	8.3	5.7	6.0	6.0	6.0	
VALKYRIE LS (PPG-TF-172)	7.0	7.3	7.3	7.7	8.7	9.0	8.3	8.3	8.3	8.0	7.3	7.3	6.7	6.0	
PSG-GSD	6.0	7.3	7.0	7.0	7.3	8.0	7.7	8.0	8.0	7.7	7.0	7.0	6.7	6.0	
RAD-TF-92	6.3	7.3	7.3	8.0	8.0	8.7	9.0	8.7	7.7	7.0	6.3	6.7	6.3	6.0	
ROCKWELL (LTP-TWUU)	7.7	7.7	7.3	8.0	8.3	8.3	8.3	8.3	8.0	8.0	6.7	7.0	6.3	6.0	
SALTILLO (PST-5SALT)	6.0	7.0	6.7	7.3	7.7	8.3	8.0	8.3	8.0	7.7	7.0	6.7	6.3	6.0	
TERRANO	7.0	7.3	7.3	7.3	8.3	8.7	8.0	8.3	7.3	7.3	6.3	6.0	6.0	6.0	
204 RES. BLK4	5.7	6.7	7.0	7.3	7.7	8.3	8.0	8.3	8.0	7.7	5.7	6.0	6.0	5.7	
ANNIHILATOR	5.7	6.7	6.7	7.0	7.7	8.0	8.0	8.0	8.3	6.3	6.3	6.3	6.3	5.7	

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS										QUALITY RATINGS			
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP 12	PRETRAFFIC	AFTER TRAFFIC OCT 13 10 GAME	RECOVERY NOV 17 20 GAME	RECOVERY DEC 1 2-WEEKS	RECOVERY DEC 15 1-MONTH
BULLSEYE	6.7	7.3	7.3	7.7	8.0	8.3	8.0	8.0	8.3	7.7	6.0	6.7	6.0	5.7	
CAESAR (TY 10)	7.7	7.0	7.0	7.0	7.7	7.7	7.7	8.3	8.0	7.7	5.7	5.7	5.7	5.7	
HOUNDG8 (IS-TF 307 SEL)	7.0	7.0	6.7	7.7	8.3	8.7	8.7	8.7	8.3	8.0	8.0	6.0	6.0	5.7	
JS 809	6.7	6.7	6.3	7.0	8.0	8.0	8.3	8.3	8.0	7.7	6.3	6.7	6.3	5.7	
KINGDOM (DB1)	7.3	6.3	6.0	7.0	7.7	8.3	8.3	8.7	8.0	7.7	6.3	6.7	6.0	5.7	
MARAUDER	6.7	6.7	6.3	7.0	7.3	8.3	8.0	8.0	8.3	7.7	6.3	6.0	6.0	5.7	
PPG-TF-138	6.3	7.3	7.7	7.3	7.3	7.7	8.3	8.7	8.0	8.0	6.0	6.0	6.0	5.7	
PSG-TT4	6.7	7.0	6.7	7.7	8.0	8.3	8.0	8.0	8.3	7.7	7.3	6.0	6.0	5.7	
PST-5BRK	6.3	7.3	6.7	7.0	7.7	7.7	7.7	8.3	8.7	7.3	6.7	6.0	5.7	5.7	
RAD-TF-83	5.7	7.3	6.7	7.7	8.0	8.3	8.3	8.7	8.7	6.7	6.3	6.0	5.7	5.7	
RAIN DANCE (PST-5SDT)	6.0	6.7	6.7	7.7	8.0	8.0	8.3	7.7	8.0	7.0	7.0	6.0	6.0	5.7	
REBOUNDER (PICK-W43)	7.3	7.0	7.3	8.0	8.3	8.7	8.3	8.3	8.3	8.0	6.7	6.7	6.0	5.7	
SWAGGER (PST-5RO5)	6.3	8.3	7.3	7.7	7.7	7.7	8.0	8.0	8.0	7.7	7.0	6.7	6.3	5.7	
TECHNIQUE (RZ2)	7.0	7.7	7.0	7.7	8.3	8.7	8.0	8.0	7.7	8.0	7.0	6.3	6.0	5.7	
W41	8.0	7.3	7.0	7.7	7.7	8.7	8.7	9.0	9.0	8.3	6.7	6.7	6.0	5.7	
BLACK TAIL (PPG-TF-150)	7.0	6.7	6.7	7.7	8.3	8.7	8.3	8.7	8.7	8.0	6.7	5.7	5.0	5.3	
BLOODHOUND (MET 6 SEL)	7.0	6.7	6.0	7.3	7.7	8.0	8.0	8.0	8.3	7.3	6.0	5.0	5.7	5.3	
JS 818	6.7	6.7	6.7	7.0	7.3	8.0	8.3	8.3	8.3	7.3	6.3	5.7	6.0	5.3	
JS 819	7.0	7.0	7.0	7.3	7.7	8.7	8.0	8.0	8.7	7.7	6.3	6.3	6.0	5.3	
JS 825	6.3	6.3	6.3	6.7	7.0	8.0	8.0	8.0	8.7	7.7	6.7	6.3	6.0	5.3	
JS 916	6.7	7.3	6.7	7.0	7.0	8.0	8.0	8.3	8.3	8.0	5.7	5.7	5.7	5.3	
KY-31	4.3	6.7	6.3	6.3	6.7	7.3	6.7	7.0	8.3	6.0	5.7	5.3	5.3	5.3	
MET-3	6.7	7.3	7.0	8.0	8.0	8.7	8.3	8.0	8.3	7.7	7.0	7.0	6.3	5.3	
PST-5EX2	5.7	7.0	7.3	6.7	7.0	6.7	7.0	8.0	8.3	7.0	4.7	5.0	5.0	5.3	
REGENERATE	8.0	6.0	6.7	6.3	7.3	8.0	8.0	8.0	7.7	8.0	5.3	5.3	4.7	5.0	
MICHELANGELO (LTP-F5DPDR)	6.7	6.7	6.3	7.0	7.3	8.0	8.3	8.0	8.0	7.7	5.3	5.3	5.3	4.7	
LSD VALUE	1.3	.	.	.	.	.	.	.	.	1.1	2.3	3.9	3.0	3.0
C.V. (%)	9.7	.	.	.	.	.	.	.	.	7.0	13.2	15.1	13.4	12.8

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND COVER RATINGS							
	MARCH	MAY	AUGUST	PRETRAFFIC SEP 19	AFTER TRAFFIC OCT 13 10 GAME	NOV 17 20 GAME	RECOVERY FROM TRAFFIC DEC 1 2-WEEKS	DEC 15 1-MONTH
FIRECRACKER SLS (PPG-TF-105)	94.3	97.7	93.3	96.3	28.3	88.7	84.3	79.7
ARES (PPG-TF-142)	92.7	98.0	95.7	97.3	38.0	84.7	80.7	76.7
FALCON IV	95.7	97.7	93.7	96.3	28.3	87.3	83.0	78.0
HEMI	95.0	97.3	93.0	96.3	58.3	86.7	82.0	77.0
RAD-TF-89	92.0	97.3	95.0	96.3	83.7	76.0	75.3	74.3
WARHAWK	91.7	97.7	93.7	96.7	54.7	85.0	81.0	76.3
VERT (ATF 1612)	93.3	97.7	94.3	97.0	51.0	81.0	77.3	74.3
REBEL V (ATF 1736)	96.7	98.0	93.3	97.3	18.7	88.0	83.0	78.0
AVENGER II (PPG-TF-156)	94.0	97.3	93.7	96.7	51.0	80.3	76.0	72.0
B23	86.7	97.3	94.7	97.3	47.0	76.7	74.3	72.0
BAR FA 121089	89.0	97.7	92.0	96.7	40.7	80.7	77.3	73.3
CROSSFIRE 4 (IS-TF 310 SEL)	91.3	97.7	92.7	96.7	44.0	81.0	76.3	71.7
FALCON V	92.7	97.3	93.7	97.0	65.0	88.7	84.0	79.3
FAYETTE (IS-TF 291)	87.3	97.7	94.0	96.7	50.7	77.7	76.0	74.7
FESNOVA	87.3	97.7	93.3	96.0	50.3	73.3	70.0	66.3
K12-05	90.7	98.0	93.3	96.7	40.3	76.0	73.7	71.3
K12-13	92.3	98.0	93.3	97.0	50.7	78.0	77.0	76.7
MAESTRO (T31)	93.3	98.0	94.0	97.0	37.7	82.3	78.3	74.7
PPG-TF-115	97.0	97.7	93.3	97.0	41.3	82.7	79.0	75.3
PPG-TF-169	93.3	97.7	93.3	96.3	64.3	82.3	77.0	71.7
PST-5DZP	94.7	97.7	94.3	97.0	45.0	84.3	79.0	73.7
RAPTOR III (ZW 44)	90.3	98.0	94.0	96.7	37.3	79.0	76.7	75.3
RHAMBLER 2 SRP (LSD)	91.3	98.0	94.3	96.7	38.0	85.7	82.0	77.7
RHIZING MOON (IS-TF 305 SEL)	92.0	97.3	94.7	97.0	51.3	84.7	80.0	75.3
ROWDY (SRX-TPC)	87.0	97.7	92.7	96.7	47.7	82.0	76.0	70.0
TEMPTATION (OR-21)	93.3	97.0	93.0	96.7	54.0	76.3	74.0	71.3
THOR (PPG-TF-157)	92.0	97.0	94.0	96.7	31.0	80.0	79.0	77.7
TITANIUM 2LS (PPG-TF-152)	90.7	97.7	93.7	96.3	24.3	81.0	76.3	72.3
TRAVERSE 2 SRP (W45)	94.0	98.3	93.7	96.3	37.0	74.3	72.0	68.7
TURFWAY (IS-TF 282 M2)	93.0	98.0	94.0	97.0	77.3	76.0	73.7	72.0
WICHITA (PPG-TF-151)	90.3	97.3	94.3	96.7	41.3	83.3	81.7	79.3
4TH MILLENNIUM SRP (U43)	80.7	90.0	92.3	96.3	60.3	74.0	69.7	64.7
ATF 1704	95.7	97.7	93.7	97.0	74.0	81.3	76.3	71.7
DIABLO (IS-TF 330)	90.0	98.0	94.3	97.0	31.0	81.7	76.7	71.7
DYNAMITE LS (PPG-TF-145)	88.3	98.3	94.7	97.0	47.3	77.7	76.7	75.7
FIREWALL (PSG-WEL)	94.7	98.0	94.0	97.0	24.0	81.3	74.3	67.7
FOXHOUND (IS-TF 284 M2)	94.7	98.3	92.7	96.7	37.7	80.3	75.3	69.7
GRANDE 3	93.3	98.0	94.3	95.7	65.0	85.3	79.7	73.7
HOT ROD (BURL TF-136)	94.3	98.0	92.7	96.3	60.7	79.0	74.3	69.3
INSPIRATION (PST-R5NW)	89.0	97.3	94.0	96.7	81.3	84.7	78.3	72.0
TRENDING (IS-TF 269 SEL)	88.0	98.3	95.3	96.7	50.0	71.7	68.3	65.7
IS-TF 272	94.0	98.0	93.3	97.0	61.3	84.7	79.3	73.7
IS-TF 276 M2	90.0	98.0	93.3	96.7	57.7	80.3	75.3	71.0
STANDOUT (IS-TF 308 SEL)	92.0	98.7	94.0	97.0	57.7	78.7	72.7	66.3
IS-TF-287	92.0	97.7	93.3	96.3	77.3	78.3	74.3	70.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND COVER RATINGS							
	MARCH	MAY	AUGUST	PRETRAFFIC SEP 19	AFTER TRAFFIC OCT 13 10 GAME	NOV 17 20 GAME	RECOVERY FROM TRAFFIC DEC 1 2-WEEKS	DEC 15 1-MONTH
K12-MCD	86.0	97.3	92.3	96.3	19.7	69.0	67.7	66.7
LEONARDO (LTP-FSD)	94.7	97.0	94.0	97.0	53.7	74.7	72.3	70.0
MEMPHIS (GO-DFR)	96.0	97.7	91.7	96.3	81.0	80.3	76.0	71.7
NIGHTCRAWLER (IS-TF 285)	85.7	97.7	94.7	97.0	86.3	70.3	68.3	66.3
PARAMOUNT (PPG-TF-137)	87.7	97.3	92.0	96.7	13.3	70.0	68.3	66.3
'SUPERSONIC (PPG-TF-170)	90.3	98.0	93.3	96.7	60.7	80.0	76.7	73.3
PSG-8BP2	91.3	97.3	93.7	96.3	71.0	80.3	74.7	68.3
PSG-PO1	92.3	97.3	94.0	97.0	47.0	74.3	73.3	72.7
PST-5BPO	95.0	98.0	93.7	97.0	70.7	78.0	73.7	69.3
PST-5MVD	89.0	96.0	94.0	97.0	70.3	74.3	71.7	69.0
REFLECTION (U45)	93.7	98.0	94.3	96.0	44.7	83.0	78.0	72.7
SCREAMER LS (PPG-TF-148)	93.3	97.7	92.3	96.3	71.0	79.0	74.3	69.3
TEMPLE (DZ1)	88.0	97.0	94.0	97.0	36.3	67.7	66.7	66.0
THUNDERSTRUCK (TD1)	93.0	97.7	94.0	96.7	88.0	82.7	79.7	76.7
UNITUS (IS-TF 289)	92.3	97.3	92.3	96.3	63.7	72.7	72.7	72.3
XTENDER (PPG-TF-139)	91.0	98.0	93.3	96.7	51.0	81.7	76.3	70.3
AMITY (CCR2)	88.3	97.7	94.0	97.0	52.7	66.3	65.0	63.3
AQUADUCT	90.7	97.7	92.0	96.3	61.0	81.0	74.0	67.3
ATF 1754	94.3	98.0	93.0	96.7	64.0	80.0	76.3	72.7
BAR FA 120878	84.3	97.3	92.7	97.3	29.7	67.3	67.7	67.3
BAR FA 121091	88.3	97.0	93.7	96.3	73.7	73.7	71.0	68.0
BAR FA 121095	87.7	97.3	93.3	96.0	43.3	74.0	69.7	65.3
TRINITY (BIZEM)	88.7	98.0	93.3	96.3	46.3	70.0	66.7	63.3
CATALYST	88.7	97.3	92.7	96.0	49.3	64.3	63.0	61.7
COMP. RES. SST	87.3	97.3	93.7	96.7	60.7	75.0	71.7	68.0
EMBRACE (PST-5EV2)	88.7	97.3	94.0	97.0	43.3	72.0	69.0	65.7
F711	89.7	97.3	93.3	97.0	43.7	74.0	70.0	66.7
FAITH	92.3	97.7	94.3	97.0	57.3	77.7	72.3	67.0
FIREBIRD 2	79.0	93.7	92.0	96.0	59.3	63.7	63.7	63.3
FRONTLINE (EXP TF-09)	88.7	96.3	92.3	95.7	89.7	68.3	67.3	66.0
GTO (BURL TF-2)	95.0	98.0	93.7	96.0	54.7	83.0	76.0	68.7
HOVER (BURL TF-69)	89.7	97.7	94.0	96.3	67.0	73.3	68.3	63.0
IS-TF 311	94.7	98.0	92.7	96.3	37.3	77.7	72.0	65.7
MERIDIAN (PST-5GRB)	93.3	98.3	93.3	97.3	37.7	84.0	75.7	67.7
MET 1	86.3	95.3	93.3	97.0	54.0	79.7	76.3	72.7
OLYMPUS (RAD-TF-88)	84.3	97.0	94.7	96.3	87.3	77.3	72.0	66.0
PPG-TF-135	84.0	97.3	93.3	96.7	52.3	59.3	61.7	64.7
VALKYRIE LS (PPG-TF-172)	93.0	98.0	93.0	96.7	41.0	78.7	74.7	70.7
PSG-GSD	82.7	95.7	94.3	97.0	44.7	80.7	77.7	75.3
RAD-TF-92	88.3	97.0	92.7	95.0	63.3	71.7	67.0	62.3
ROCKWELL (LTP-TWUU)	91.7	97.3	93.0	97.0	46.7	73.0	70.7	68.0
SALTILLO (PST-5SALT)	94.7	98.3	94.3	97.3	53.3	71.3	69.7	68.0
TERRANO	86.3	98.0	93.7	96.0	52.3	62.7	62.7	62.7
204 RES. BLK4	89.3	97.0	94.0	97.3	56.3	67.7	67.0	66.0
ANNIHILATOR	82.0	96.7	94.0	95.3	43.7	72.3	68.3	64.7

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA

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

NAME	PERCENT LIVING GROUND COVER RATINGS							
	MARCH	MAY	AUGUST	PRETRAFFIC SEP 19	AFTER TRAFFIC OCT 13 10 GAME	NOV 17 20 GAME	RECOVERY FROM TRAFFIC DEC 1 2-WEEKS	DEC 15 1-MONTH
BULLSEYE	90.0	97.3	93.3	96.0	40.0	69.7	66.3	63.7
CAESAR (TY 10)	76.0	95.7	94.0	96.3	48.3	54.7	57.0	60.0
HOUNDOG8 (IS-TF 307 SEL)	92.0	98.7	94.3	96.7	49.3	66.0	61.3	56.7
JS 809	82.7	96.7	92.3	95.7	76.3	69.3	66.0	63.7
KINGDOM (DB1)	83.0	96.3	94.3	97.0	50.0	69.7	67.0	64.0
MARAUDER	79.0	97.0	92.0	96.7	39.3	65.0	66.3	67.7
PPG-TF-138	85.0	96.0	94.7	97.3	32.7	62.3	62.3	62.0
PSG-TT4	94.7	98.0	92.7	97.0	53.3	72.3	68.3	64.0
PST-5BRK	86.7	96.3	94.3	97.0	53.0	66.0	63.0	60.0
RAD-TF-83	91.7	97.7	94.0	95.0	53.0	65.3	62.7	59.7
RAIN DANCE (PST-5SDT)	90.7	97.7	92.7	96.7	33.3	71.0	65.7	60.7
REBOUNDER (PICK-W43)	90.3	97.3	95.0	96.3	29.3	67.3	64.3	61.0
SWAGGER (PST-5RO5)	91.0	96.3	93.7	97.0	66.7	71.0	68.3	65.3
TECHNIQUE (RZ2)	87.3	96.7	92.7	96.7	41.7	61.3	59.7	57.3
W41	89.0	97.7	94.3	96.7	53.3	71.7	67.0	61.3
BLACK TAIL (PPG-TF-150)	90.3	98.3	94.0	96.7	65.3	59.7	55.7	51.0
BLOODHOUND (MET 6 SEL)	85.7	97.3	92.3	96.7	51.3	53.3	56.3	59.3
JS 818	77.7	96.3	93.3	96.7	65.3	59.3	60.0	61.0
JS 819	82.3	97.3	93.3	96.3	42.7	64.3	64.0	63.0
JS 825	76.7	95.0	92.7	96.7	36.3	66.3	64.0	61.7
JS 916	69.7	94.3	92.3	97.0	51.7	55.0	53.7	52.3
KY-31	73.3	96.3	93.3	96.3	51.0	50.7	53.7	56.3
MET-3	92.3	98.0	94.7	96.3	60.7	77.7	71.7	66.0
PST-5EX2	82.7	93.0	93.0	97.0	48.0	47.7	51.3	54.3
REGENERATE	69.3	94.0	93.7	97.0	60.3	41.3	43.0	45.0
MICHELANGELO (LTP-F5DPDR)	78.3	96.3	93.7	96.7	51.3	52.3	53.3	54.0
LSD VALUE	30.9	6.2	7.8	1.7	180.6	56.1	44.2	34.7
C.V. (%)	9.7	1.9	1.6	0.7	58.9	20.2	17.2	15.0

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA

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

NAME	TDR MOISTURE PROBE RATINGS AFTER TRAFFIC					CLEGG (GMAX) RATINGS AFTER TRAFFIC				
	PRETRAFFIC SEP 18	5 GAME SEP 30	10 GAME OCT 12	15 GAME NOV 5	20 GAME NOV 17	PRETRAFFIC SEP 18	5 GAME SEP 30	10 GAME OCT 12	15 GAME NOV 5	20 GAME NOV 17
FIRECRACKER SLS (PPG-TF-105)	22.7	37.0	33.0	31.0	25.0	77.3	50.7	47.3	47.0	86.0
ARES (PPG-TF-142)	18.3	35.3	31.3	31.0	23.7	82.3	52.0	43.0	59.0	84.3
FALCON IV	22.7	39.3	35.0	32.0	25.3	74.7	49.7	42.7	43.7	85.0
HEMI	22.7	37.7	33.7	30.3	24.3	78.0	54.0	46.3	53.0	86.7
RAD-TF-89	21.0	36.7	33.7	30.0	24.0	91.0	52.3	38.7	58.0	82.3
WARHAWK	19.7	34.0	31.3	29.7	23.3	91.7	57.0	57.7	56.0	86.7
VERT (ATF 1612)	24.0	37.7	33.7	31.7	26.0	78.0	53.7	48.7	48.0	80.0
REBEL V (ATF 1736)	21.7	37.0	34.0	31.0	25.7	95.7	49.7	37.0	60.3	86.3
AVENGER II (PPG-TF-156)	21.0	37.7	34.0	32.7	24.7	87.3	55.7	42.0	55.0	76.7
B23	19.0	36.3	31.3	32.0	25.3	83.7	55.7	50.0	53.0	84.3
BAR FA 121089	19.7	34.3	35.7	30.0	26.7	90.0	57.0	47.0	54.7	89.7
CROSSFIRE 4 (IS-TF 310 SEL)	21.3	38.7	34.7	33.7	25.0	87.7	53.7	39.7	52.0	78.0
FALCON V	21.7	35.3	33.7	31.7	26.0	73.7	57.0	48.3	58.3	84.3
FAYETTE (IS-TF 291)	21.7	35.7	32.7	30.7	26.3	85.0	50.0	47.7	52.3	82.7
FESNOVA	20.7	37.0	35.3	31.3	26.7	80.7	47.3	51.7	52.0	82.3
K12-05	19.3	37.7	31.7	33.7	26.3	78.0	49.3	41.0	66.3	86.3
K12-13	23.0	37.0	34.3	30.0	27.7	77.7	50.7	39.3	65.3	75.7
MAESTRO (T31)	19.3	35.0	35.0	30.7	25.0	88.3	48.7	48.3	57.3	75.7
PPG-TF-115	23.3	36.3	32.0	30.7	25.0	72.0	51.0	46.0	57.3	83.3
PPG-TF-169	22.0	39.3	35.0	34.0	26.7	83.3	38.3	46.3	54.3	82.0
PST-5DZP	18.7	35.0	31.3	31.3	25.0	76.7	55.0	45.3	57.0	81.3
RAPTOR III (ZW 44)	23.0	35.7	36.3	30.0	26.0	90.3	51.0	47.3	57.3	82.0
RHAMBLER 2 SRP (LSD)	22.3	36.3	33.0	30.7	24.3	90.0	53.7	45.0	54.7	85.7
RHIZING MOON (IS-TF 305 SEL)	19.7	35.7	32.3	30.7	25.7	89.3	50.7	45.7	53.3	87.3
ROWDY (SRX-TPC)	21.3	37.7	35.7	32.0	26.7	76.0	51.7	44.3	52.3	81.7
TEMPTATION (OR-21)	20.7	36.3	33.3	31.3	25.0	75.3	50.3	51.3	54.3	89.0
THOR (PPG-TF-157)	23.7	37.0	33.3	33.3	25.7	86.0	48.7	55.3	49.3	78.0
TITANIUM 2LS (PPG-TF-152)	22.7	37.0	32.3	29.3	27.0	77.3	49.3	32.3	50.3	84.0
TRAVERSE 2 SRP (W45)	19.0	36.7	35.7	31.3	24.7	80.0	51.3	38.7	50.3	78.3
TURFWAY (IS-TF 282 M2)	18.0	35.7	31.7	31.7	24.7	88.7	50.7	41.0	57.3	90.7
WICHITA (PPG-TF-151)	18.7	34.7	35.0	31.7	25.0	83.0	55.0	47.0	54.0	81.0
4TH MILLENNIUM SRP (U43)	18.3	33.7	31.7	31.0	24.0	94.3	61.7	50.3	58.3	101.0
ATF 1704	19.7	38.3	35.3	33.3	27.0	90.0	47.3	42.7	48.7	81.3
DIABLO (IS-TF 330)	23.7	39.0	32.7	31.7	26.3	75.3	46.7	43.7	56.0	85.7
DYNAMITE LS (PPG-TF-145)	19.7	38.7	33.7	31.7	24.0	286.7	54.0	44.3	58.7	78.7
FIREWALL (PSG-WE1)	21.0	39.3	34.3	30.0	26.7	72.0	46.7	44.7	53.7	79.0
FOXHOUND (IS-TF 284 M2)	19.0	36.3	33.7	29.0	24.0	88.0	49.7	44.3	53.0	91.7
GRANDE 3	23.0	38.0	33.3	30.3	25.3	78.3	44.7	44.0	50.3	81.7
HOT ROD (BURL TF-136)	20.7	36.3	36.3	31.3	27.3	79.0	48.3	38.3	51.7	85.3
INSPIRATION (PST-R5NW)	22.7	38.7	35.3	33.0	25.7	75.3	45.7	51.7	53.0	81.7
TRENDING (IS-TF 269 SEL)	21.3	37.0	33.0	32.7	25.7	98.0	53.0	44.7	51.7	79.7
IS-TF 272	23.3	38.3	33.0	31.3	25.0	76.3	47.0	39.3	62.7	89.7
IS-TF 276 M2	18.3	37.7	31.3	29.7	26.3	85.7	50.7	44.7	58.7	90.7
STANDOUT (IS-TF 308 SEL)	22.7	36.0	31.0	34.0	25.3	74.7	40.3	43.3	49.0	83.3
IS-TF-287	21.7	39.0	35.7	32.3	27.0	78.7	49.0	38.3	55.3	74.7

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	TDR MOISTURE PROBE RATINGS AFTER TRAFFIC					CLEGG (GMAX) RATINGS AFTER TRAFFIC				
	PRETRAFFIC SEP 18	5 GAME SEP 30	10 GAME OCT 12	15 GAME NOV 5	20 GAME NOV 17	PRETRAFFIC SEP 18	5 GAME SEP 30	10 GAME OCT 12	15 GAME NOV 5	20 GAME NOV 17
K12-MCD	20.3	37.7	35.3	31.7	25.7	89.7	48.7	42.3	48.0	82.3
LEONARDO (LTP-FSD)	20.7	33.7	32.0	30.0	24.3	84.0	57.0	43.3	57.3	99.0
MEMPHIS (GO-DFR)	19.3	36.3	30.7	31.7	24.3	76.7	46.0	49.3	50.0	75.0
NIGHTCRAWLER (IS-TF 285)	20.3	37.0	33.3	31.3	24.3	75.7	50.7	36.3	48.3	86.3
PARAMOUNT (PPG-TF-137)	22.7	40.0	34.3	33.7	23.7	81.0	50.7	41.3	49.0	78.7
SUPERSONIC (PPG-TF-170)	20.7	38.7	34.3	33.0	26.3	77.0	50.7	43.3	48.7	83.7
PSG-8BP2	21.7	36.3	31.7	31.7	25.7	83.0	49.7	44.7	56.7	81.3
PSG-PO1	22.7	37.7	34.0	32.0	23.7	83.7	55.7	45.0	60.0	84.0
PST-5BPO	22.7	40.3	35.0	33.3	26.7	78.0	44.7	42.3	55.3	80.0
PST-5MVD	24.7	37.3	36.3	32.0	25.0	77.3	44.3	37.7	57.3	84.0
REFLECTION (U45)	21.7	39.0	36.0	31.7	27.0	75.0	49.3	41.3	49.7	83.0
SCREAMER LS (PPG-TF-148)	23.3	36.7	34.3	31.3	24.3	76.0	46.0	47.0	52.0	89.7
TEMPLE (DZ1)	19.7	32.0	30.3	27.3	22.3	75.3	57.3	48.3	57.3	96.0
THUNDERSTRUCK (TD1)	21.7	35.7	33.0	30.0	23.7	77.7	57.7	50.0	48.7	84.7
UNITUS (IS-TF 289)	21.3	35.7	33.7	30.7	25.3	76.7	48.7	47.3	59.3	85.3
XTENDER (PPG-TF-139)	20.3	40.3	35.0	31.3	26.3	83.7	54.3	44.3	47.0	81.7
AMITY (CCR2)	21.3	37.3	31.3	31.7	22.7	82.0	60.7	46.0	53.3	88.0
AQUADUCT	17.7	35.3	34.3	31.3	25.3	86.0	51.0	50.3	55.7	86.3
ATF 1754	23.3	35.7	33.7	31.0	24.7	88.3	49.3	46.7	47.0	96.0
BAR FA 120878	19.3	36.3	32.3	31.7	24.3	82.7	52.0	45.0	59.3	80.0
BAR FA 121091	19.3	38.3	34.3	33.0	27.7	82.7	44.3	38.3	52.3	81.7
BAR FA 121095	22.7	38.7	33.3	32.0	26.0	78.0	49.0	43.0	49.7	82.0
TRINITY (BIZEM)	19.0	38.3	34.3	31.7	26.7	71.0	46.3	44.7	58.3	83.3
CATALYST	19.3	36.0	32.3	30.0	23.0	85.0	56.3	43.0	62.7	80.7
COMP. RES. SST	19.7	34.7	32.3	29.3	23.0	83.3	56.3	51.7	62.0	90.7
EMBRACE (PST-5EV2)	25.7	36.3	35.7	34.0	25.3	80.7	46.3	50.3	53.7	82.0
F711	20.3	36.7	34.0	30.3	23.0	87.3	47.7	48.3	50.3	87.3
FAITH	22.0	37.7	34.3	30.3	24.7	83.3	52.7	36.7	57.3	84.7
FIREBIRD 2	21.0	35.0	33.0	28.7	26.0	87.0	54.3	43.3	59.3	94.0
FRONTLINE (EXP TF-09)	21.0	35.7	34.7	31.3	26.0	77.7	54.7	49.3	60.0	90.3
GTO (BURL TF-2)	22.0	38.7	33.7	31.0	26.3	81.0	48.0	43.7	49.7	88.0
HOVER (BURL TF-69)	23.0	40.0	33.7	32.7	26.7	74.3	45.0	42.3	47.0	84.7
IS-TF 311	21.3	36.7	32.0	31.3	25.3	78.7	50.0	45.0	47.3	84.3
MERIDIAN (PST-5GRB)	25.0	40.3	32.0	33.3	27.0	76.7	51.3	48.0	56.3	88.7
MET 1	19.7	37.3	32.3	30.0	25.3	90.7	55.0	44.7	56.3	81.7
OLYMPUS (RAD-TF-88)	20.3	36.3	35.3	31.0	25.7	87.3	59.3	47.0	56.0	83.0
PPG-TF-135	22.0	37.0	31.3	32.7	25.3	76.7	56.0	45.0	68.7	89.7
VALKYRIE LS (PPG-TF-172)	22.0	38.3	34.3	32.0	25.7	73.7	47.7	36.7	51.3	85.3
PSG-GSD	18.3	35.0	32.7	31.7	25.7	90.0	54.3	39.0	45.7	88.3
RAD-TF-92	19.0	37.7	32.3	31.3	22.0	79.7	53.3	47.3	57.0	88.0
ROCKWELL (LTP-TWUU)	23.3	37.3	34.3	30.0	24.7	86.3	50.3	41.3	48.7	88.7
SALTILLO (PST-5SALT)	21.3	38.3	32.7	32.0	27.7	75.7	46.3	42.0	57.0	82.7
TERRANO	19.7	36.7	34.0	32.7	22.7	93.0	42.7	46.3	64.7	91.3
204 RES. BLK4	19.7	34.0	32.7	27.7	22.7	89.0	50.7	53.3	67.0	109.3
ANNIHILATOR	17.3	35.7	35.3	33.0	25.0	90.3	50.7	48.7	49.0	88.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2015 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	TDR MOISTURE PROBE RATINGS AFTER TRAFFIC					CLEGG (GMAX) RATINGS AFTER TRAFFIC				
	PRETRAFFIC SEP 18	5 GAME SEP 30	10 GAME OCT 12	15 GAME NOV 5	20 GAME NOV 17	PRETRAFFIC SEP 18	5 GAME SEP 30	10 GAME OCT 12	15 GAME NOV 5	20 GAME NOV 17
BULLSEYE	22.7	36.3	33.0	31.7	24.7	77.3	57.7	47.3	59.7	79.7
CAESAR (TY 10)	21.3	35.0	33.3	29.0	21.3	77.7	58.0	51.7	60.3	84.0
HOUNDOG8 (IS-TF 307 SEL)	20.7	36.0	35.7	32.7	26.3	81.7	46.3	40.7	52.7	74.0
JS 809	22.3	38.0	33.0	29.7	26.0	82.0	48.0	44.0	49.7	77.7
KINGDOM (DB1)	21.0	38.7	31.0	34.3	24.3	83.7	52.3	48.0	51.3	83.0
MARAUDER	18.7	35.7	30.3	28.0	23.3	95.0	49.0	48.3	57.7	83.3
PPG-TF-138	18.7	35.7	32.0	30.3	23.3	97.3	58.3	45.3	58.0	93.3
PSG-TT4	22.0	37.7	35.7	31.3	26.0	81.3	45.0	46.7	58.7	86.7
PST-5BRK	23.0	37.7	34.3	33.7	24.7	74.0	49.7	49.7	49.3	92.3
RAD-TF-83	21.0	37.3	33.0	32.3	23.7	71.7	48.7	47.7	56.0	84.3
RAIN DANCE (PST-5SDT)	23.0	36.3	34.7	33.0	25.3	75.3	48.7	47.0	58.7	76.3
REBOUNDER (PICK-W43)	20.0	40.3	34.0	33.0	27.3	87.7	53.0	42.0	50.7	79.7
SWAGGER (PST-5RO5)	20.3	35.0	32.7	30.0	26.0	74.0	55.0	48.7	62.0	95.7
TECHNIQUE (RZ2)	19.7	36.7	35.3	32.3	25.0	86.0	59.0	37.0	51.7	79.7
W41	18.7	38.0	31.3	32.0	26.3	81.3	46.0	46.7	57.3	82.7
BLACK TAIL (PPG-TF-150)	23.7	38.0	37.0	33.0	25.7	83.7	49.0	38.3	56.0	79.0
BLOODHOUND (MET 6 SEL)	22.0	39.0	31.3	30.7	25.3	74.0	50.0	42.7	57.3	84.3
JS 818	20.7	37.7	32.3	31.3	23.7	90.7	55.0	46.3	61.3	95.3
JS 819	21.0	36.3	33.0	27.7	25.7	89.3	63.0	48.0	56.3	85.7
JS 825	18.7	36.3	33.3	30.3	24.7	93.7	50.3	47.7	59.7	79.3
JS 916	21.0	36.7	33.3	29.0	25.7	84.3	49.3	49.0	57.3	94.3
KY-31	17.0	33.3	30.3	28.3	23.3	96.7	62.7	52.3	49.7	92.3
MET-3	23.7	40.0	34.3	32.0	25.3	84.3	54.3	47.0	59.0	88.7
PST-5EX2	20.0	34.0	30.7	29.0	24.7	82.7	51.3	52.3	62.3	104.3
REGENERATE	21.7	35.0	31.0	29.3	24.7	94.7	54.7	33.0	54.7	79.3
MICHELANGELO (LTP-F5DPDR)	23.3	35.7	34.7	30.0	25.0	81.0	52.0	45.7	59.0	81.3
LSD VALUE	21.0	13.8	7.6	7.2	8.7	166.1	24.0	22.7	33.7	29.0
C.V. (%)	16.7	7.9	7.2	7.3	8.5	42.0	13.8	15.6	15.1	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.

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2016 DATA

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

NAME	GENETIC COLOR	PERCENT LIVING GROUND COVER RATINGS							POA ANNUA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
		MAY	JULY	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER															
REBEL V (ATF 1736)	7.3	96.0	93.0	96.3	96.0	87.0	81.3	8.7	5.0	5.0	7.3	9.0	8.7	7.7	8.0	7.7	9.0	6.3	6.7	6.7	7.3	
ARES (PPG-TF-142)	7.3	96.0	94.0	96.3	88.3	83.7	80.7	8.7	5.3	5.0	7.0	8.3	8.3	7.3	8.0	7.3	9.0	6.7	7.3	6.7	7.2	
DIABLO (IS-TF 330)	7.7	96.3	94.7	96.0	87.7	80.7	78.7	9.0	5.0	5.0	6.7	8.3	9.0	8.0	8.0	7.7	8.7	7.0	7.0	6.3	7.2	
FIRECRACKER SLS (PPG-TF-105)	7.3	95.7	90.0	95.3	92.3	87.7	85.3	8.7	5.3	5.3	6.7	9.0	8.3	8.0	7.3	7.0	8.7	6.7	7.3	7.0	7.2	
PST-5DZP	7.7	96.0	94.3	96.0	97.3	83.3	79.0	9.0	5.0	5.0	7.0	8.3	8.0	8.0	8.0	7.7	9.0	6.7	7.3	6.7	7.2	
UNITUS (IS-TF 289)	8.0	95.7	94.7	95.3	92.0	71.7	68.7	9.0	5.3	5.0	6.7	8.3	8.3	8.0	8.0	7.3	9.0	6.7	7.3	6.0	7.2	
ATF 1704	7.0	96.0	94.0	96.0	85.3	80.3	75.7	8.7	5.0	5.3	7.0	8.3	8.3	7.7	8.0	7.7	8.7	6.0	7.0	6.3	7.1	
CROSSFIRE 4 (IS-TF 310 SEL)	7.7	96.0	92.7	95.7	85.3	80.0	79.3	8.7	5.0	5.0	6.7	8.7	8.7	7.3	7.7	7.7	8.7	6.3	6.3	6.7	7.1	
FALCON IV	7.0	96.0	91.0	95.3	96.3	86.3	83.3	8.7	5.3	5.0	7.0	9.0	9.0	7.7	7.0	7.0	8.0	6.3	7.3	6.7	7.1	
FAYETTE (IS-TF 291)	7.7	94.7	94.0	95.7	86.0	76.7	74.7	9.0	5.3	5.0	7.0	8.3	8.0	8.0	8.0	7.3	9.0	6.0	6.7	6.7	7.1	
FIREWALL (PSG-WE1)	7.0	95.7	92.0	96.0	83.7	80.3	72.7	9.0	5.0	5.0	6.7	8.3	8.7	8.0	7.3	8.0	8.7	6.0	6.7	6.3	7.1	
GRANDE 3	7.3	95.7	94.7	94.7	91.7	84.3	80.3	9.0	5.0	5.0	6.7	8.7	8.0	8.0	8.0	7.7	8.7	6.3	6.3	6.3	7.1	
GTO (BURL TF-2)	7.7	96.0	94.3	95.0	88.7	82.0	76.0	8.7	5.0	5.3	6.7	8.7	8.7	7.3	8.0	8.0	9.0	6.0	6.7	6.0	7.1	
HEMI	7.3	96.0	93.7	95.3	85.0	85.7	81.3	8.7	5.0	5.0	7.3	8.7	8.7	7.7	7.7	8.7	8.7	5.7	6.3	7.0	7.1	
IS-TF 272	8.3	95.7	93.3	96.0	90.7	83.7	78.7	8.7	5.0	5.0	6.7	8.3	8.3	7.7	7.7	7.3	8.7	6.3	7.0	6.7	7.1	
IS-TF-287	7.3	96.0	94.3	95.3	89.3	77.3	73.7	9.0	5.0	5.0	7.0	8.3	8.3	8.0	8.0	7.3	8.7	6.3	6.7	6.0	7.1	
MERIDIAN (PST-5GRB)	6.7	95.7	93.0	96.3	97.3	83.0	75.0	8.7	5.3	5.0	6.3	8.7	8.7	8.0	7.7	7.3	9.0	6.7	7.0	6.0	7.1	
ROWDY (SRX-TPC)	7.3	95.3	94.0	95.7	91.7	81.0	76.3	9.0	5.3	5.3	7.0	8.7	8.3	8.0	7.7	7.0	8.7	6.0	7.0	6.7	7.1	
TEMPTATION (OR-21)	7.7	95.3	93.3	95.7	86.3	75.3	75.7	8.7	5.3	5.3	7.3	8.3	8.3	7.7	7.7	7.3	9.0	6.0	6.3	6.3	7.1	
WARHAWK	7.3	94.7	93.3	95.7	89.3	84.0	80.7	9.0	5.3	5.0	7.0	8.0	8.7	8.0	7.7	7.0	8.7	6.3	7.0	6.7	7.1	
WICHITA (PPG-TF-151)	7.0	96.0	92.0	95.7	96.0	82.3	80.3	8.3	5.0	5.0	7.0	8.3	8.3	7.3	7.3	8.0	9.0	6.0	7.0	6.3	7.1	
VERT (ATF 1612)	7.3	95.7	93.3	96.0	85.0	80.0	78.3	8.3	5.3	5.0	6.7	8.7	8.3	7.3	8.0	7.3	8.7	5.7	6.3	6.3	7.0	
B23	8.0	95.0	95.0	96.3	92.7	75.7	75.0	9.0	5.0	5.0	6.7	8.7	8.0	8.0	8.0	7.3	9.0	5.7	6.3	6.0	7.0	
FESNOVA	7.7	94.7	92.7	95.0	88.0	72.3	67.0	9.0	5.0	5.0	7.0	7.7	8.3	8.0	7.7	7.0	8.7	6.3	6.7	6.3	7.0	
FOXHOUND (IS-TF 284 M2)	7.7	95.0	92.7	95.7	81.7	79.3	73.3	8.3	5.0	5.0	6.7	8.7	8.3	7.0	7.3	8.0	9.0	6.0	6.7	6.3	7.0	
HOT ROD (BURL TF-136)	8.0	96.0	91.7	95.3	82.7	78.0	75.3	8.7	5.3	5.0	6.7	8.0	8.7	7.3	7.3	8.0	9.0	5.3	6.3	6.7	7.0	
INSPIRATION (PST-R5NW)	7.3	95.0	93.3	95.7	98.0	83.7	77.7	8.0	5.0	5.0	6.3	8.3	8.0	7.0	7.7	7.0	9.0	7.0	7.3	6.3	7.0	
IS-TF 276 M2	8.0	95.7	92.3	95.7	86.7	79.3	79.3	8.7	5.0	5.0	7.0	8.3	8.3	7.3	7.7	7.0	9.0	6.7	7.0	6.0	7.0	
STANDOUT (IS-TF 308 SEL)	7.3	95.0	93.7	96.0	94.7	77.7	73.7	8.7	5.0	5.0	6.7	8.3	8.0	7.7	7.7	8.0	9.0	6.3	6.7	5.7	7.0	
MAESTRO (T31)	7.3	95.0	90.7	96.0	94.3	81.3	79.0	8.3	5.0	5.0	7.3	8.3	8.0	7.0	7.0	7.7	9.0	6.0	6.7	6.7	7.0	
PPG-TF-115	7.7	95.7	93.0	96.0	92.7	81.7	78.0	8.7	5.0	5.0	7.0	8.3	8.3	7.7	7.7	7.0	8.7	6.3	6.7	6.3	7.0	
PPG-TF-169	7.0	95.7	92.3	95.3	87.3	81.3	76.7	8.7	5.0	5.0	7.3	8.7	8.7	7.3	7.7	7.0	9.0	5.7	6.7	6.3	7.0	
PST-5BP0	7.0	95.7	94.0	96.0	85.0	77.0	74.7	9.0	5.0	5.0	6.7	8.7	8.0	8.0	8.0	7.0	8.7	6.3	6.7	5.7	7.0	
REFLECTION (U45)	7.7	95.3	90.3	95.0	88.3	82.0	72.7	8.3	5.0	5.0	7.0	8.7	8.3	7.3	7.0	8.0	9.0	6.0	6.7	6.3	7.0	
RHIZING MOON (IS-TF 305 SEL)	7.7	95.7	91.0	96.0	85.3	83.7	79.3	8.3	5.0	5.0	7.0	8.3	8.0	7.0	7.3	8.0	9.0	6.3	6.7	6.7	7.0	
TITANIUM 2LS (PPG-TF-152)	7.0	95.7	91.0	95.3	83.7	80.0	76.0	8.3	5.3	5.0	7.3	8.3	8.0	7.3	7.0	8.0	9.0	6.0	6.7	6.3	7.0	
TURFWAY (IS-TF 282 M2)	7.7	95.0	92.3	96.0	72.3	75.0	77.3	8.7	5.3	5.0	7.7	8.7	8.0	7.3	7.7	8.0	8.7	5.3	5.7	6.3	7.0	
VALKYRIE LS (PPG-TF-172)	7.3	94.3	91.7	95.7	82.0	77.7	77.3	8.3	5.3	5.3	6.7	8.3	8.3	7.0	7.3	7.3	9.0	6.3	6.7	6.0	7.0	
AQUADUCT	7.3	95.0	92.3	95.3	87.7	80.0	75.7	8.7	5.0	5.0	6.3	8.0	8.3	7.7	7.7	6.7	8.3	6.3	7.0	6.0	6.9	
AVENGER II (PPG-TF-156)	7.3	95.3	94.3	95.7	95.0	79.3	77.0	8.3	5.0	4.7	6.7	8.7	8.0	7.3	8.0	7.7	8.7	6.0	6.3	6.3	6.9	
BAR FA 121089	7.0	94.3	90.7	95.7	97.0	79.7	78.3	8.7	5.3	5.0	6.7	8.0	8.0	7.3	7.0	7.3	8.7	6.0	6.7	6.3	6.9	
TRINITY (BIZEM)	7.3	94.3	93.7	95.3	91.7	69.0	67.7	8.7	5.0	4.7	7.0	8.3	8.0	7.7	7.7	8.0	9.0	6.0	6.3	5.7	6.9	
F711	7.7	94.7	94.0	96.0	82.3	73.0	62.7	8.7	5.0	5.0	6.3	8.3	8.0	7.7	8.0	7.0	9.0	5.7	6.3	6.0	6.9	
HOUND08 (IS-TF 307 SEL)	7.7	96.0	91.0	95.7	95.0	65.0	62.3	8.7	5.0	5.0	6.3	8.0	8.7	7.3	7.3	7.7	8.3	7.0	7.0	5.3	6.9	
IS-TF 311	8.0	95.0	93.7	95.3	93.3	76.7	71.7	9.0	5.0	5.0	6.0	8.0	8.0	8.0	8.0	7.3	8.7	6.3	6.7	5.7	6.9	

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2016 DATA

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

NAME	GENETIC COLOR	PERCENT LIVING GROUND COVER RATINGS							POA												
		MAY	JULY	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
K12-05	8.3	94.0	90.3	95.7	86.3	75.0	71.7	8.3	5.0	4.7	6.3	8.0	8.0	7.0	7.0	7.7	9.0	6.7	7.3	6.0	6.9
K12-13	7.3	95.3	91.3	96.0	83.0	77.0	78.7	8.3	5.0	4.7	6.7	8.7	8.3	7.3	7.3	7.3	9.0	6.0	6.7	6.3	6.9
LEONARDO (LTP-FSD)	7.3	94.7	94.3	96.0	76.7	73.7	71.0	9.0	5.0	5.0	7.0	8.3	8.0	8.0	8.0	7.3	8.7	5.7	5.7	6.0	6.9
MEMPHIS (GO-DFR)	7.7	95.7	89.3	95.3	86.0	79.3	83.7	8.0	5.0	5.0	6.3	8.3	8.7	6.7	6.7	7.0	9.0	6.7	7.0	6.0	6.9
PSG-8BP2	7.0	95.7	92.3	95.3	91.7	79.3	75.7	8.7	5.0	5.0	6.3	8.7	8.0	7.7	7.3	7.0	8.7	6.3	6.3	6.3	6.9
PSG-GSD	7.0	94.7	92.3	96.0	99.0	79.7	78.7	9.0	5.0	5.0	6.3	8.3	8.0	8.0	7.3	7.0	8.7	6.0	7.0	6.0	6.9
RAPTOR III (ZW 44)	7.3	95.0	94.0	95.7	84.7	78.0	75.3	8.7	5.0	5.0	7.0	8.0	7.0	7.3	8.0	7.7	9.0	6.0	6.0	6.7	6.9
RHAMBLER 2 SRP (LSD)	7.3	95.0	93.0	95.7	89.0	84.7	81.3	8.0	5.0	5.0	6.3	8.3	8.3	7.3	7.7	7.0	8.7	6.0	6.7	6.3	6.9
ROCKWELL (LTP-TWUU)	7.3	95.0	93.3	96.0	84.7	72.0	71.7	9.0	5.0	5.3	6.7	8.3	8.3	8.0	8.0	7.3	9.0	5.7	5.7	6.0	6.9
SALTILLO (PST-5SALT)	6.7	95.0	93.0	96.3	83.3	70.3	68.0	8.3	5.0	5.0	6.3	8.7	8.3	8.0	7.7	7.0	8.7	6.0	6.3	5.3	6.9
THUNDERSTRUCK (TD1)	7.7	95.7	93.3	95.7	86.3	81.7	77.3	8.7	5.0	5.0	6.3	8.3	8.0	7.7	8.0	7.3	9.0	5.3	6.3	6.3	6.9
TRAVERSE 2 SRP (W45)	7.7	94.7	93.0	95.3	80.0	73.3	73.0	8.7	5.0	5.0	7.3	8.0	8.0	7.3	7.7	7.7	8.7	5.3	6.3	6.3	6.9
XTENDER (PPG-TF-139)	7.7	94.3	91.0	95.7	92.7	80.7	77.0	8.3	5.3	5.0	6.7	7.7	7.7	7.0	7.0	8.0	9.0	6.0	6.7	6.3	6.9
ATF 1754	7.3	93.7	93.3	95.7	84.0	79.0	79.0	8.7	5.3	5.0	6.3	8.0	7.7	7.7	8.0	7.3	8.0	6.0	6.0	6.0	6.8
BAR FA 121091	7.3	94.3	90.3	95.3	92.3	72.7	70.0	8.0	5.0	4.7	6.3	8.0	8.0	7.0	7.3	7.0	8.7	5.7	7.0	6.0	6.8
FAITH	7.0	95.3	93.0	96.0	86.7	76.7	73.3	8.7	5.0	5.0	6.7	8.0	8.0	7.3	8.0	7.0	9.0	5.7	6.3	6.0	6.8
FALCON V	6.7	95.7	90.0	96.0	95.3	87.7	85.0	8.0	5.0	4.7	6.7	8.3	8.3	7.0	7.0	6.7	8.7	6.0	6.3	6.3	6.8
FRONTLINE (EXP TF-09)	8.0	96.0	92.7	94.7	86.7	67.3	77.3	8.3	4.7	4.7	6.7	8.3	9.0	7.0	7.7	7.0	8.3	6.0	6.7	5.7	6.8
TRENDING (IS-TF 269 SEL)	8.0	95.7	93.0	95.7	85.0	70.7	69.3	8.3	5.0	5.0	6.0	8.0	8.3	7.0	7.7	8.0	8.7	5.7	6.0	6.0	6.8
K12-MCD	7.0	93.7	91.0	95.3	85.3	68.0	66.7	8.0	5.3	4.7	6.3	8.7	8.3	6.7	7.0	7.0	8.3	6.0	6.7	6.0	6.8
MET-3	7.7	94.3	91.7	95.3	93.3	76.7	74.3	8.0	5.0	4.7	6.3	8.0	8.0	7.3	7.3	7.0	8.7	6.0	7.0	6.0	6.8
NIGHTCRAWLER (IS-TF 285)	7.3	94.3	93.3	96.0	85.7	69.3	69.3	8.7	5.0	5.0	6.3	7.7	8.0	7.7	8.0	7.3	8.7	5.7	6.3	6.0	6.8
PSG-PO1	7.3	95.7	93.0	96.0	84.0	73.3	74.3	8.7	5.0	5.0	6.0	8.3	8.7	7.3	8.0	7.0	9.0	5.7	6.3	5.7	6.8
PST-5MVD	7.0	94.0	89.3	96.0	91.3	73.3	72.3	8.3	5.0	5.0	6.7	8.0	7.7	7.3	6.7	6.7	8.7	6.7	7.0	5.7	6.8
REBOUNDER (PICK-W43)	8.0	95.7	91.3	95.3	89.3	66.3	69.7	8.3	5.0	4.7	7.0	8.3	8.3	6.7	7.0	8.0	8.7	5.7	6.3	6.0	6.8
SCREAMER LS (PPG-TF-148)	6.7	95.0	93.0	95.3	81.7	78.0	74.7	8.7	5.0	4.7	6.7	8.3	8.0	7.7	7.7	7.3	9.0	5.3	6.3	6.0	6.8
SUPERSONIC (PPG-TF-170)	7.3	95.0	90.0	95.7	95.3	79.0	73.3	7.7	5.0	4.7	6.3	8.7	8.0	6.3	7.3	7.0	8.7	6.3	6.7	6.3	6.8
THOR (PPG-TF-157)	7.3	95.3	90.7	95.7	83.3	79.0	81.7	8.0	5.0	4.3	6.3	9.0	8.3	6.7	7.0	7.7	8.7	6.0	6.3	6.7	6.8
BLACK TAIL (PPG-TF-150)	7.3	94.0	92.3	95.7	78.0	58.7	65.3	9.0	5.0	4.3	6.0	8.0	7.7	8.0	7.7	7.7	9.0	5.7	6.0	5.0	6.7
BULLSEYE	6.7	95.7	93.0	95.0	72.0	68.7	74.0	8.7	5.0	5.0	6.3	8.0	9.0	7.7	7.7	7.3	8.7	5.0	5.7	5.3	6.7
CATALYST	7.7	94.3	94.0	95.0	78.3	63.3	57.0	9.0	5.0	4.7	6.7	7.7	8.0	8.0	8.0	6.7	9.0	5.3	5.7	5.3	6.7
DYNAMITE LS (PPG-TF-145)	7.3	94.0	93.0	96.0	85.7	76.7	76.3	8.7	5.0	4.7	6.3	7.7	7.7	7.3	7.7	7.0	9.0	5.7	6.3	6.3	6.7
EMBRACE (PST-5EV2)	7.3	94.3	91.7	96.0	85.7	71.0	72.3	8.0	5.0	5.0	6.0	8.0	8.0	7.0	7.7	7.3	8.7	6.0	6.3	5.3	6.7
MET 1	7.0	94.3	90.7	96.0	89.0	78.7	77.3	8.3	5.0	5.0	6.3	8.0	6.7	7.0	7.3	7.3	9.0	6.3	6.3	6.0	6.7
OLYMPUS (RAD-TF-88)	7.0	93.0	93.0	95.3	86.7	76.3	73.3	9.0	5.0	5.0	6.0	7.3	7.3	8.0	7.3	7.0	8.3	6.7	6.7	6.0	6.7
PSG-TT4	7.3	95.3	92.3	96.0	86.7	71.3	72.0	8.3	5.0	5.0	6.0	8.0	8.3	6.7	7.7	7.0	8.7	6.3	6.7	5.3	6.7
RAD-TF-89	7.0	96.0	86.0	95.3	95.0	75.0	76.3	7.7	5.0	4.7	6.7	8.7	8.7	6.7	6.7	6.7	9.0	5.7	6.0	6.3	6.7
RAIN DANCE (PST-5SDT)	7.0	95.3	93.0	95.7	88.0	70.0	64.3	8.7	5.0	5.0	6.0	8.0	8.0	7.7	7.7	7.3	8.0	6.0	6.7	5.3	6.7
SWAGGER (PST-5RO5)	7.0	94.3	91.7	96.0	84.7	70.0	69.3	8.0	5.0	4.7	6.3	8.0	8.0	7.0	7.7	7.0	8.7	6.0	6.7	6.0	6.7
TECHNIQUE (RZ2)	7.7	93.7	92.3	95.7	78.3	60.3	62.3	8.7	5.0	4.3	6.3	7.3	8.0	7.7	7.3	7.7	8.7	6.0	6.3	5.7	6.7
W41	7.7	94.3	92.3	95.7	80.0	70.7	69.0	8.3	5.0	4.7	6.3	7.7	7.3	7.0	7.7	8.0	9.0	5.7	6.3	5.7	6.7
4TH MILLENNIUM SRP (U43)	7.0	93.0	92.0	95.3	67.3	73.0	68.0	8.7	4.7	4.7	6.3	7.3	7.7	7.7	7.3	7.3	8.7	5.0	5.7	6.3	6.6
HOVER (BURL TF-69)	7.3	96.0	88.7	95.3	87.7	72.3	69.3	8.0	5.0	5.0	6.0	8.0	8.7	6.7	6.7	7.0	8.7	6.0	6.3	5.7	6.6
JS 809	6.7	92.3	93.7	94.7	72.3	68.3	64.7	8.7	5.3	4.7	5.7	7.0	7.3	7.7	8.0	7.0	8.7	5.3	6.0	6.0	6.6
PARAMOUNT (PPG-TF-137)	7.7	92.7	91.7	95.7	79.3	69.0	63.7	8.7	4.7	4.7	6.0	7.7	7.7	7.3	7.3	7.7	8.7	5.7	6.3	6.0	6.6

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2016 DATA

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

NAME	GENETIC COLOR	MAY	PERCENT LIVING GROUND COVER RATINGS					POA ANNUA	RATINGS												MEAN
			JULY	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPG-TF-135	7.7	93.7	94.7	95.7	73.0	58.3	61.3	8.7	4.7	4.3	6.3	7.7	8.3	8.0	8.0	7.3	9.0	4.7	5.3	5.3	6.6
PST-5BRK	7.3	94.3	93.0	96.0	83.3	65.0	64.0	8.7	5.0	5.0	6.3	7.7	8.0	7.3	8.0	7.3	8.3	5.7	5.7	5.3	6.6
TEMPLE (DZ1)	7.3	94.7	94.7	96.0	61.7	66.7	67.7	9.0	5.0	5.0	6.3	8.0	7.7	8.0	8.0	7.3	9.0	4.0	5.0	6.0	6.6
TERRANO	7.7	94.0	91.0	95.0	70.0	61.7	59.7	8.7	5.0	5.0	6.7	7.7	7.7	7.3	7.3	6.7	8.3	5.3	6.0	5.7	6.6
AMITY (CCR2)	7.3	94.3	89.0	96.0	83.0	65.3	68.0	8.0	5.0	4.7	6.0	7.7	8.0	6.7	6.7	7.3	9.0	5.3	6.0	5.7	6.5
BAR FA 121095	7.0	92.7	91.7	95.0	90.7	73.0	75.3	8.3	5.0	4.7	5.7	7.3	7.3	7.0	7.3	6.7	8.0	6.7	7.0	5.7	6.5
FIREBIRD 2	7.3	94.3	92.7	95.0	77.0	62.7	63.7	8.7	4.7	4.7	6.3	8.0	7.7	7.3	7.3	7.3	8.0	5.3	5.7	5.7	6.5
JS 819	7.3	92.0	92.3	95.3	75.7	63.3	64.7	8.7	4.7	4.7	6.3	7.3	7.3	7.7	7.3	7.3	8.7	5.3	6.0	5.7	6.5
JS 825	7.0	92.3	93.7	95.7	84.7	65.3	65.0	9.0	5.0	4.3	5.7	7.3	7.3	8.0	7.7	7.0	8.7	5.7	6.3	5.3	6.5
KINGDOM (DB1)	7.0	93.3	91.3	96.0	89.0	68.7	68.0	8.0	5.0	5.0	6.0	7.7	7.7	6.7	7.0	7.3	8.7	5.3	6.3	5.3	6.5
MARAUDER	7.0	93.3	92.0	95.7	83.0	64.0	67.3	9.0	5.0	4.7	5.7	7.7	8.0	8.0	7.3	6.3	8.7	5.3	6.0	5.7	6.5
PPG-TF-138	7.3	92.7	93.3	96.3	77.0	61.3	63.7	8.7	5.0	4.7	6.0	7.0	7.7	7.3	7.7	7.3	9.0	5.0	5.3	5.7	6.5
RAD-TF-83	7.3	94.3	91.7	94.0	88.0	64.3	67.3	8.0	5.0	4.7	6.3	8.0	7.7	7.0	7.3	7.3	7.7	5.3	6.0	5.3	6.5
RAD-TF-92	7.7	94.0	91.0	94.0	74.3	70.7	78.0	8.7	5.0	4.7	6.0	7.7	7.7	7.3	7.0	7.3	8.0	5.3	6.0	5.3	6.4
204 RES. BLK4	7.0	93.7	91.7	96.3	70.3	66.7	61.3	8.3	5.0	4.7	5.7	7.3	7.7	7.0	7.3	7.0	8.7	4.7	5.3	5.3	6.3
ANNIHILATOR	7.0	93.3	89.7	94.3	73.3	71.3	69.7	8.3	5.0	4.7	6.0	7.3	8.0	7.3	7.0	6.0	7.3	5.3	6.0	5.7	6.3
BAR FA 120878	6.7	93.0	87.7	96.3	85.3	66.3	77.0	7.7	5.3	4.7	5.7	7.3	7.3	6.7	7.0	5.7	8.3	6.0	6.3	5.7	6.3
BLOODHOUND (MET 6 SEL)	7.0	93.3	92.7	95.7	83.7	52.3	57.3	8.3	5.0	4.3	5.7	7.3	7.7	7.0	7.7	7.0	8.3	5.0	5.3	4.7	6.3
CAESAR (TY 10)	7.0	93.3	92.7	95.3	72.3	53.7	58.0	8.3	4.7	4.0	5.7	7.3	7.7	7.3	7.7	7.3	8.7	4.7	5.0	5.3	6.3
COMP. RES. SST	6.7	94.0	90.0	95.7	77.0	74.0	72.7	8.3	4.7	4.3	6.0	7.3	8.0	7.0	6.7	7.0	8.7	4.7	5.7	6.0	6.3
JS 818	7.0	92.3	90.3	95.7	80.7	58.3	61.0	8.0	5.0	5.0	5.3	7.3	7.3	7.0	7.0	7.3	8.3	5.3	5.7	5.0	6.3
JS 916	7.3	92.0	92.0	96.0	63.3	54.0	55.7	8.7	4.7	4.3	6.0	7.0	7.7	7.3	7.3	7.3	9.0	4.7	5.7	4.7	6.3
MICHELANGELO (LTP-F5DPDR)	6.3	93.3	92.7	95.7	63.3	51.3	54.3	8.3	4.7	4.3	5.7	7.7	7.7	7.0	7.7	7.3	8.7	4.3	4.7	4.7	6.2
REGENERATE	7.3	90.0	92.3	96.0	70.3	40.3	44.0	8.7	4.7	4.3	6.3	6.3	7.0	7.7	7.7	7.7	9.0	4.3	5.0	4.7	6.2
PST-5EX2	6.7	94.3	93.0	96.0	56.3	46.7	52.3	8.7	5.0	4.3	5.3	7.3	8.0	7.7	7.7	7.0	8.0	3.7	4.0	4.7	6.1
KY-31	5.0	89.7	85.0	95.3	73.0	49.7	62.0	8.0	4.0	3.3	4.7	5.3	6.0	4.0	6.0	6.3	7.0	4.7	5.0	4.7	5.1
LSD VALUE	1.1	3.7	8.1	1.7	41.9	56.1	46.8	2.3	1.3	1.1	1.7	1.6	1.7	1.9	2.4	0.9	1.3	2.3	2.3	2.9	0.8
C.V. (%)	7.5	1.7	2.8	0.7	15.2	20.5	17.0	6.7	6.5	8.7	10.7	9.1	8.4	10.2	8.8	6.7	5.7	15.4	13.8	14.1	5.7

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2017 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER			WINTER COLOR	QUALITY RATINGS													
		SPRING	SUMMER	FALL		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	
FOXHOUND (IS-TF 284 M2)	6.7	79.0	94.0	95.7	6.3	6.3	8.0	8.7	6.0	6.0	6.0	8.0	8.0	8.3	8.0	7.3	8.3	7.4	
TRENDING (IS-TF 269 SEL)	7.0	73.3	94.0	95.0	6.7	6.3	7.3	7.0	6.7	6.0	6.7	8.0	8.0	8.3	8.0	7.3	8.3	7.3	
STANDOUT (IS-TF 308 SEL)	6.7	77.7	95.3	95.0	6.3	6.0	7.7	7.3	6.3	6.0	6.3	8.0	8.0	8.0	7.7	7.7	8.7	7.3	
MAESTRO (T31)	7.3	82.7	96.0	95.3	6.7	6.3	7.3	6.7	6.0	6.0	6.3	7.7	7.7	8.0	8.0	8.0	9.0	7.3	
REGENERATE	7.3	64.0	94.0	94.7	6.3	6.7	7.7	7.3	6.3	6.0	6.3	8.0	7.7	8.3	7.3	7.3	8.3	7.3	
ROCKWELL (LTP-TWUU)	6.3	78.3	96.0	95.3	6.7	6.7	7.7	7.0	6.3	6.0	6.3	7.7	7.3	7.7	8.0	7.7	8.7	7.3	
TURFWAY (IS-TF 282 M2)	6.7	79.7	94.3	95.7	6.7	6.3	8.3	8.7	6.0	6.0	6.0	7.7	8.0	7.7	8.0	7.0	8.0	7.3	
AMITY (CCR2)	6.7	72.3	97.7	95.7	6.3	6.0	7.3	7.7	6.0	6.0	6.0	7.7	7.3	8.0	8.0	7.7	8.3	7.2	
TRINITY (BIZEM)	7.0	77.0	95.7	95.7	6.3	5.3	7.0	7.0	6.3	6.0	6.3	7.7	8.0	8.0	8.0	7.7	8.7	7.2	
FAYETTE (IS-TF 291)	7.0	78.0	96.0	94.7	6.7	6.7	7.7	7.3	6.3	6.0	6.0	7.3	7.3	8.0	7.7	7.3	8.3	7.2	
HOUNDOG8 (IS-TF 307 SEL)	7.0	73.7	94.7	95.0	6.7	5.7	7.3	7.3	6.3	6.0	6.3	7.7	7.7	8.0	8.0	7.7	8.3	7.2	
IS-TF-287	6.7	79.0	95.7	96.0	6.0	5.7	7.3	7.7	6.3	6.0	6.3	7.3	7.3	8.0	8.0	7.7	8.3	7.2	
RAPTOR III (ZW 44)	7.3	81.0	95.0	96.0	6.3	6.0	7.0	7.0	6.3	6.0	6.3	7.7	7.7	8.0	8.0	7.7	8.3	7.2	
REBOUNDER (PICK-W43)	7.7	76.0	97.7	95.3	6.7	6.3	7.3	7.0	6.0	6.0	6.3	7.7	8.0	8.0	8.0	7.7	8.3	7.2	
RHIZING MOON (IS-TF 305 SEL)	7.0	81.7	95.3	95.3	6.7	6.0	7.3	7.3	6.3	6.0	6.3	7.7	8.0	8.0	7.7	7.7	8.3	7.2	
TRAVERSE 2 SRP (W45)	7.3	79.0	93.7	94.7	6.7	5.7	7.7	7.3	6.0	6.0	6.0	8.3	7.7	8.3	8.0	7.3	8.3	7.2	
ATF 1704	6.0	82.7	94.0	95.3	5.7	6.3	7.3	8.0	6.0	6.0	6.0	7.0	7.7	8.0	8.0	7.0	8.0	7.1	
REBEL V (ATF 1736)	6.3	85.0	94.3	94.7	6.0	5.7	6.3	6.7	6.3	6.0	6.7	7.3	7.7	7.7	8.0	8.0	8.7	7.1	
AVENGER II (PPG-TF-156)	6.3	80.0	96.0	95.7	6.0	5.3	7.0	6.7	6.3	6.0	6.3	7.7	7.7	7.7	7.7	7.7	8.7	7.1	
BLACK TAIL (PPG-TF-150)	6.3	70.3	96.7	95.0	5.3	5.7	7.3	7.7	6.0	6.0	6.0	7.3	7.7	8.0	8.0	7.3	7.7	7.1	
CAESAR (TY 10)	7.3	70.0	95.7	94.7	6.3	6.3	7.3	6.7	6.0	6.0	6.0	7.7	7.3	8.0	8.0	7.7	8.7	7.1	
DIABLO (IS-TF 330)	7.0	77.7	95.3	95.3	6.3	6.0	7.0	7.7	6.0	6.0	6.0	7.7	7.7	8.0	8.0	7.3	8.0	7.1	
FRONTLINE (EXP TF-09)	6.7	76.0	94.3	94.3	6.0	6.0	7.0	7.3	6.0	6.0	6.3	7.3	7.0	7.7	8.3	7.7	8.3	7.1	
GTO (BURL TF-2)	6.7	80.3	96.3	96.3	6.0	6.0	7.0	7.0	6.0	6.0	6.0	7.3	8.0	7.7	8.0	8.0	8.3	7.1	
HOT ROD (BURL TF-136)	6.3	78.0	94.3	95.7	6.7	6.3	7.3	7.3	6.0	6.0	6.3	7.3	8.0	7.7	8.0	7.0	8.0	7.1	
IS-TF 311	8.0	75.7	95.3	94.0	6.0	6.3	7.3	7.0	6.0	6.0	6.3	7.7	7.3	8.0	7.3	8.0	8.3	7.1	
K12-05	7.0	74.3	97.3	95.3	6.0	5.3	6.7	7.0	6.0	6.0	6.0	7.7	7.7	8.0	8.0	8.0	8.3	7.1	
ROWDY (SRX-TPC)	7.0	80.3	96.7	95.3	6.3	6.3	7.0	7.3	6.0	6.0	6.0	7.7	7.0	8.0	7.7	7.3	8.3	7.1	
TEMPTATION (OR-21)	6.7	78.7	94.3	95.7	7.0	6.7	8.0	8.0	6.3	6.0	6.3	7.7	7.3	8.0	5.7	6.3	8.3	7.1	
THOR (PPG-TF-157)	6.3	80.0	95.7	95.0	6.7	6.0	7.3	7.3	6.0	6.0	6.0	7.7	7.7	8.0	8.0	7.3	8.3	7.1	
THUNDERSTRUCK (TD1)	7.3	78.7	95.0	95.3	6.7	6.0	7.3	7.7	6.0	6.0	6.3	7.7	7.3	8.0	7.3	7.3	8.3	7.1	
204 RES. BLK4	5.0	69.3	97.3	96.7	5.3	6.3	7.0	8.0	6.0	6.0	6.0	7.0	7.0	7.3	8.0	7.7	8.0	7.0	
4TH MILLENNIUM SRP (U43)	6.7	72.7	95.3	96.0	6.3	6.3	7.0	7.3	6.0	5.7	5.7	7.0	7.3	8.0	8.0	7.3	8.0	7.0	
ARES (PPG-TF-142)	6.3	79.0	94.7	95.0	6.7	5.7	7.0	7.3	6.0	6.0	6.0	7.0	7.3	8.0	8.0	7.3	8.0	7.0	
VERT (ATF 1612)	6.0	78.7	94.0	96.0	6.0	6.0	7.0	7.3	6.0	6.0	6.0	7.3	7.3	7.7	8.0	7.3	8.3	7.0	
ATF 1754	5.7	76.7	94.0	95.7	6.3	5.7	7.0	7.3	6.0	6.0	6.3	7.3	7.3	8.0	7.7	7.3	8.3	7.0	
BAR FA 121089	6.0	78.3	93.7	94.7	6.0	5.0	7.0	6.3	6.3	6.0	6.7	7.7	7.3	8.0	7.7	7.3	8.3	7.0	
CROSSFIRE 4 (IS-TF 310 SEL)	6.7	79.0	95.0	94.7	6.7	5.3	7.0	7.3	6.0	6.0	6.0	7.7	7.7	7.3	8.0	7.3	8.3	7.0	
EMBRACE (PST-5EV2)	6.0	74.0	96.3	95.7	5.3	5.7	7.0	7.7	6.0	6.0	6.0	7.0	7.0	7.3	7.7	8.0	7.3	7.0	
F711	6.3	76.3	96.3	96.0	6.0	6.0	7.3	7.3	6.0	6.0	6.0	7.0	7.0	8.0	8.0	7.0	8.0	7.0	
FAITH	6.7	77.7	94.7	95.3	6.0	6.0	7.0	7.0	6.0	6.0	6.0	7.7	7.0	8.0	7.3	7.3	8.3	7.0	
FESNOVA	6.7	75.3	95.7	96.0	6.0	6.3	7.0	6.7	6.0	6.0	6.0	7.3	7.0	8.0	7.7	7.7	8.3	7.0	
FIRECRACKER SLS (PPG-TF-105)	6.3	81.7	95.0	95.7	6.7	5.7	7.3	7.0	6.0	6.0	6.0	7.7	7.0	8.0	7.7	7.3	8.3	7.0	
HEMI	6.3	83.0	95.0	95.3	6.3	6.3	6.7	7.0	6.0	6.0	6.0	7.0	7.7	7.0	8.0	7.7	8.3	7.0	
IS-TF 272	6.7	79.3	96.7	95.0	6.7	5.3	7.0	6.7	6.3	6.0	6.3	7.3	7.3	7.7	8.0	7.7	8.3	7.0	

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2017 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER			WINTER COLOR	QUALITY RATINGS													
		SPRING	SUMMER	FALL		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	
JS 916	5.7	64.7	96.7	95.0	5.7	6.0	7.3	7.3	6.0	6.0	6.0	7.0	7.3	8.0	8.0	7.0	8.0	7.0	7.0
MEMPHIS (GO-DFR)	6.7	76.0	96.0	95.3	6.0	5.3	7.0	7.7	6.0	6.0	6.0	7.3	7.0	8.0	8.0	7.7	8.0	7.0	7.0
MET 1	7.0	76.0	94.7	95.0	6.0	6.0	6.7	6.7	6.0	6.0	6.0	7.7	7.3	7.3	7.7	7.7	8.7	7.0	7.0
MICHELANGELO (LTP-F5DPDR)	6.0	70.7	94.0	95.7	6.3	5.7	7.7	7.7	6.0	6.0	6.0	7.0	7.3	7.7	8.0	7.0	8.0	7.0	7.0
NIGHTCRAWLER (IS-TF 285)	6.7	72.7	95.7	95.3	6.3	5.3	6.7	6.7	6.3	6.0	6.3	7.7	7.3	8.0	7.7	7.7	8.7	7.0	7.0
PARAMOUNT (PPG-TF-137)	6.7	71.3	97.0	95.3	6.0	5.7	6.7	7.0	6.0	6.0	6.0	7.3	7.7	8.0	8.0	7.3	8.0	7.0	7.0
PPG-TF-115	7.0	83.7	96.3	94.7	6.3	5.7	7.0	7.0	6.0	6.3	6.7	7.3	7.0	7.3	8.0	7.3	8.3	7.0	7.0
PPG-TF-138	6.3	70.0	95.3	95.0	6.3	5.7	7.0	7.0	6.0	6.0	6.3	7.3	7.3	8.0	8.0	7.3	8.3	7.0	7.0
RHAMBLER 2 SRP (LSD)	6.0	79.3	96.0	96.0	6.3	6.0	6.7	7.0	6.3	6.0	6.3	7.3	7.0	7.3	7.7	7.7	8.3	7.0	7.0
SALTILLO (PST-5SALT)	6.0	78.7	95.3	95.7	5.7	5.7	7.7	7.7	6.0	6.0	6.0	7.0	7.0	8.0	8.0	7.0	8.0	7.0	7.0
SCREAMER LS (PPG-TF-148)	5.7	78.3	94.7	95.7	5.7	6.0	7.3	7.3	6.0	6.0	6.0	7.0	7.3	7.7	8.0	7.0	8.0	7.0	7.0
SUPERSONIC (PPG-TF-170)	7.3	77.7	93.7	95.0	6.3	5.3	7.0	6.7	6.0	6.0	6.3	7.7	7.0	8.0	7.7	7.7	8.7	7.0	7.0
W41	6.7	72.3	95.3	94.7	6.0	5.0	7.0	7.0	6.0	6.0	6.0	7.3	8.0	8.0	8.0	7.3	8.0	7.0	7.0
WICHITA (PPG-TF-151)	7.0	82.3	96.3	95.3	6.3	5.3	7.0	6.7	6.0	6.0	6.3	7.7	8.0	7.3	7.7	7.7	8.7	7.0	7.0
B23	6.7	78.0	95.7	95.7	6.7	6.0	6.3	6.3	6.0	6.0	6.0	7.7	7.3	7.7	7.3	7.7	8.7	6.9	6.9
FIREWALL (PSG-WE1)	6.7	80.0	96.3	85.3	5.3	5.7	7.0	8.0	6.0	6.0	6.0	7.3	8.0	7.7	8.0	6.0	7.0	6.9	6.9
GRANDE 3	6.3	81.0	96.7	96.0	6.0	6.3	6.7	6.3	6.0	6.0	6.3	7.0	7.7	7.0	8.0	7.3	8.3	6.9	6.9
JS 819	5.7	70.7	95.7	93.7	5.3	6.0	6.7	6.7	6.3	6.0	6.3	7.3	7.3	7.3	8.0	7.3	7.3	6.9	6.9
JS 825	6.0	67.0	91.3	94.0	6.3	6.0	6.7	7.0	6.0	6.0	6.0	7.3	7.0	7.7	8.0	7.0	7.7	6.9	6.9
K12-13	5.7	80.3	95.0	94.7	5.3	5.3	6.7	7.0	6.0	6.0	6.0	7.0	7.3	7.7	8.0	7.3	8.0	6.9	6.9
KINGDOM (DB1)	6.7	72.0	94.7	95.3	6.3	5.0	6.3	6.0	6.0	6.0	6.0	7.3	7.3	8.0	8.0	7.7	8.7	6.9	6.9
LEONARDO (LTP-FSD)	6.0	79.7	94.7	96.3	6.7	6.0	7.0	7.3	6.0	6.0	6.0	7.0	7.3	7.7	8.0	6.7	8.0	6.9	6.9
PPG-TF-135	6.3	74.3	96.0	95.3	6.3	5.0	6.3	6.3	6.0	6.0	6.3	7.7	7.3	8.0	7.7	7.3	8.3	6.9	6.9
PPG-TF-169	6.0	83.3	94.3	96.0	6.3	5.7	7.3	7.0	6.0	6.0	6.0	7.0	7.0	7.0	7.7	7.3	8.3	6.9	6.9
PST-5MVD	6.0	77.3	95.7	95.0	5.7	5.7	7.0	6.7	6.0	6.0	6.0	7.3	6.7	7.7	7.7	7.3	8.3	6.9	6.9
REFLECTION (U45)	7.0	79.3	96.0	96.3	6.3	5.3	6.7	6.7	6.0	6.0	6.0	7.3	8.0	7.7	7.7	7.3	8.3	6.9	6.9
TERRANO	5.7	72.0	96.0	95.3	6.3	5.7	7.0	7.0	6.3	6.0	6.0	7.0	6.7	8.0	8.0	7.3	8.0	6.9	6.9
TITANIUM 2LS (PPG-TF-152)	5.7	81.0	94.3	95.7	6.3	5.7	6.3	7.0	6.0	6.0	6.0	7.0	8.0	8.0	8.0	7.0	8.0	6.9	6.9
BULLSEYE	5.7	75.7	95.7	94.7	5.7	5.0	6.3	6.7	6.0	6.0	6.0	7.0	7.3	7.7	8.0	7.0	8.0	6.8	6.8
CATALYST	6.3	71.7	97.3	94.0	6.0	6.0	6.3	6.7	6.0	6.0	6.3	7.3	6.7	7.0	7.7	7.7	8.0	6.8	6.8
DYNAMITE LS (PPG-TF-145)	6.7	74.0	95.3	94.7	6.3	4.7	6.3	6.3	6.0	6.0	6.0	7.7	7.0	8.0	7.7	7.3	8.3	6.8	6.8
FIREBIRD 2	6.7	77.0	96.7	89.0	5.0	5.3	7.0	6.7	6.0	6.0	6.0	7.3	7.3	7.7	8.0	6.3	7.3	6.8	6.8
IS-TF 276 M2	6.7	77.7	94.0	88.3	5.7	6.0	7.0	7.0	6.0	6.0	6.3	7.3	7.0	7.7	8.0	6.3	7.3	6.8	6.8
K12-MCD	6.7	78.0	97.0	95.7	5.7	5.3	6.3	6.0	6.3	6.0	6.3	7.3	7.0	8.0	7.7	7.0	8.0	6.8	6.8
MARAUDER	6.0	70.3	95.7	95.3	6.3	6.0	7.0	6.3	6.0	6.0	6.0	7.3	6.3	7.0	7.3	7.3	8.7	6.8	6.8
MERIDIAN (PST-5GRB)	5.7	78.7	96.3	96.3	5.0	5.3	6.0	6.0	6.0	6.0	6.0	7.3	7.3	8.0	8.0	7.7	8.3	6.8	6.8
MET-3	6.0	73.7	95.0	95.3	5.7	5.3	6.0	6.0	6.3	6.0	6.3	7.3	7.0	8.0	7.7	7.7	8.3	6.8	6.8
OLYMPUS (RAD-TF-88)	6.0	68.3	94.3	94.7	5.7	5.0	6.3	7.0	6.0	6.0	6.0	7.0	7.0	8.0	8.0	7.0	8.0	6.8	6.8
PSG-TT4	5.0	74.3	95.0	95.3	5.0	5.7	6.7	7.0	6.0	6.0	6.0	7.0	7.0	7.7	8.0	7.0	7.7	6.8	6.8
PST-5BP0	6.0	79.3	95.0	95.3	5.0	5.7	7.3	7.3	6.0	6.0	6.0	7.0	7.0	7.3	8.0	7.0	7.3	6.8	6.8
PST-5BRK	5.7	72.7	96.0	96.3	5.7	5.0	6.3	6.0	6.3	6.0	6.3	7.3	7.3	7.3	7.7	7.7	8.7	6.8	6.8
RAIN DANCE (PST-5SDT)	5.7	73.7	96.0	95.7	5.7	5.3	6.3	7.0	6.0	6.0	6.0	6.7	7.3	7.7	8.0	7.0	7.7	6.8	6.8
SWAGGER (PST-5RO5)	4.7	74.7	94.0	96.7	5.0	5.3	7.0	7.0	6.0	6.0	6.0	7.0	7.0	7.3	8.0	7.0	8.0	6.8	6.8
TECHNIQUE (RZ2)	6.3	72.3	97.7	96.0	5.7	5.3	6.0	6.7	6.0	6.0	6.0	7.0	7.7	7.7	8.0	7.3	7.7	6.8	6.8
TEMPLE (DZ1)	5.7	74.7	94.7	95.7	6.3	5.3	6.3	6.7	6.0	6.0	6.0	7.0	7.3	8.0	8.0	7.0	8.0	6.8	6.8

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT KNOXVILLE, TN 1/
2017 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER			WINTER COLOR	QUALITY RATINGS													MEAN
		SPRING	SUMMER	FALL		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
UNITUS (IS-TF 289)	6.0	79.0	94.7	93.3	6.0	6.0	7.7	7.7	5.7	4.7	5.0	7.3	7.3	7.7	7.7	7.3	8.0	6.8	
VALKYRIE LS (PPG-TF-172)	5.7	78.3	95.0	95.3	5.7	5.3	7.0	7.3	6.0	6.0	6.0	6.7	7.3	7.3	8.0	7.0	8.0	6.8	
WARHAWK	5.7	77.7	95.3	95.3	6.7	6.3	6.0	6.0	6.0	6.0	7.3	7.0	6.7	8.0	7.3	8.3	6.8		
XTENDER (PPG-TF-139)	5.7	76.0	97.0	96.3	6.3	5.0	6.0	6.3	6.0	6.0	6.3	7.0	8.0	7.3	8.0	7.7	8.3	6.8	
BLOODHOUND (MET 6 SEL)	6.0	72.3	96.7	95.0	5.3	6.0	6.3	5.7	5.7	5.3	5.3	7.7	7.0	8.0	7.3	7.7	8.3	6.7	
JS 818	6.3	64.7	95.0	94.7	5.7	5.7	5.7	5.3	6.0	6.0	6.3	7.3	7.3	7.7	7.3	7.7	8.3	6.7	
PSG-PO1	6.7	75.7	94.7	95.3	6.3	6.0	7.3	7.3	6.0	6.0	6.3	7.0	7.0	7.3	5.7	6.3	8.3	6.7	
RAD-TF-89	7.0	78.3	95.3	95.3	6.7	5.7	6.7	6.3	6.0	6.0	6.3	8.0	6.7	8.0	5.0	6.7	8.7	6.7	
ANNIHILATOR	5.7	71.0	95.0	95.7	6.0	5.3	5.7	6.3	6.0	5.7	6.0	7.0	6.0	7.7	7.7	7.7	8.3	6.6	
AQUADUCT	5.3	74.0	91.0	95.0	5.7	4.7	5.7	6.0	6.0	6.0	6.0	6.7	6.7	7.3	8.0	7.3	8.3	6.6	
BAR FA 120878	5.7	73.0	92.7	94.7	6.0	5.3	6.3	6.0	6.3	6.0	6.3	7.0	5.7	7.3	8.0	7.3	8.0	6.6	
BAR FA 121091	7.0	75.3	95.3	94.7	6.0	4.7	6.0	6.0	6.0	6.0	6.3	7.3	7.0	7.3	7.7	7.3	8.0	6.6	
FALCON IV	6.7	83.7	95.3	95.3	5.7	5.0	5.3	5.0	6.0	6.0	6.3	7.3	7.0	7.3	7.7	7.7	8.7	6.6	
FALCON V	6.0	82.7	94.0	94.7	5.7	5.3	5.7	5.0	6.0	6.0	6.3	7.3	6.7	7.0	7.7	7.7	8.7	6.6	
HOVER (BURL TF-69)	6.3	71.3	93.0	95.3	6.3	4.3	6.3	6.0	6.0	6.0	6.0	7.3	7.0	8.0	7.7	7.0	8.0	6.6	
INSPIRATION (PST-R5NW)	6.0	81.0	97.3	95.3	6.0	4.0	5.7	5.0	6.0	6.0	6.3	7.3	7.0	7.3	7.7	7.7	8.7	6.6	
PST-5DZP	6.3	79.3	95.7	95.3	5.7	5.0	6.3	6.7	6.0	6.0	6.3	7.7	7.7	7.0	5.3	6.7	8.7	6.6	
RAD-TF-83	6.7	71.0	94.7	94.0	5.3	5.7	6.7	6.0	6.3	6.0	6.3	7.3	7.3	7.7	5.7	6.7	8.0	6.6	
RAD-TF-92	6.3	71.3	94.7	94.7	6.0	5.3	7.0	7.3	6.0	6.0	6.0	7.3	7.3	7.7	5.7	5.7	8.0	6.6	
BAR FA 121095	6.7	71.7	96.7	89.0	4.3	4.7	5.7	5.3	6.0	6.0	6.3	7.7	6.7	8.0	7.3	6.7	7.3	6.5	
PSG-8BP2	5.7	79.7	94.3	94.3	5.3	4.0	5.3	5.7	6.0	6.0	6.3	7.0	7.0	7.0	8.0	7.7	8.3	6.5	
JS 809	5.7	67.0	94.0	94.0	5.7	5.7	6.7	6.7	6.0	6.0	6.0	7.0	7.0	7.7	5.7	6.0	7.0	6.4	
PSG-GSD	6.3	75.7	95.7	95.7	6.0	5.0	5.7	5.7	6.0	6.0	6.3	7.0	7.0	6.7	5.0	7.0	9.0	6.4	
COMP. RES. SST	5.0	72.3	97.0	96.7	6.0	5.7	3.7	4.3	6.0	6.0	6.3	7.0	7.0	6.7	7.7	7.3	8.3	6.3	
PST-5EX2	3.7	70.0	94.0	96.0	5.3	4.7	6.3	6.3	6.0	6.0	6.0	6.3	7.0	7.3	5.7	6.0	8.0	6.3	
KY-31	2.7	59.0	91.7	92.0	4.0	5.0	4.3	5.0	6.0	5.7	6.0	5.3	6.3	5.7	5.3	6.0	6.7	5.6	
LSD VALUE	1.4	17.0	3.9	10.5	1.2	3.7	1.6	2.2	1.9	1.2	2.9	1.3	0.9	1.3	4.1	4.2	2.1	0.5	
C.V. (%)	12.5	8.7	1.8	2.7	10.2	16.1	12.3	14.6	5.2	4.4	7.6	7.3	6.7	7.4	14.9	11.5	7.6	4.0	

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 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2013 DATA

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

NAME	GENETIC	QUALITY RATINGS							MEAN
	COLOR	MAY	JUN	JUL	AUG	OCT	NOV	DEC	
RAPTOR III (ZW 44)	6.3	5.3	6.7	7.7	8.0	5.3	7.7	7.7	6.9
MET 1	6.7	5.7	7.3	8.0	7.7	5.7	6.0	7.3	6.8
VALKYRIE LS (PPG-TF-172)	7.3	6.0	7.0	7.7	7.3	5.3	6.7	7.7	6.8
FAITH	6.7	4.3	6.3	7.3	7.3	5.7	7.7	8.0	6.7
FAYETTE (IS-TF 291)	7.0	6.3	7.0	7.0	6.7	5.7	7.0	7.3	6.7
FESNOVA	6.7	6.0	6.7	7.0	7.7	5.3	6.3	7.0	6.6
TITANIUM 2LS (PPG-TF-152)	7.0	5.0	6.3	7.3	7.7	5.3	7.0	7.3	6.6
FIREWALL (PSG-WE1)	6.7	5.3	6.3	7.0	7.3	5.7	7.7	7.0	6.6
SWAGGER (PST-5R05)	7.0	6.3	6.7	6.3	6.7	5.0	7.7	7.7	6.6
4TH MILLENNIUM SRP (U43)	7.3	5.7	6.7	7.3	6.3	6.0	6.0	8.0	6.6
CATALYST	7.3	5.0	6.0	6.7	7.3	5.7	7.7	7.0	6.5
SCREAMER LS (PPG-TF-148)	7.0	5.7	6.7	7.0	7.3	5.7	6.3	7.0	6.5
BLACK TAIL (PPG-TF-150)	7.0	5.3	6.7	7.0	7.3	5.0	6.7	7.3	6.5
PPG-TF-169	7.3	6.7	7.0	6.3	7.3	5.3	6.3	6.3	6.5
HOVER (BURL TF-69)	.	5.3	6.0	6.3	7.7	5.0	7.0	7.3	6.4
AMITY (CCR2)	7.0	5.7	7.0	8.0	7.3	4.3	5.3	7.0	6.4
HOUNDOG8 (IS-TF 307 SEL)	7.0	5.7	7.0	8.0	7.7	4.7	5.3	6.7	6.4
BLOODHOUND (MET 6 SEL)	7.3	5.3	6.3	6.7	7.0	5.3	6.3	7.7	6.4
MET-3	7.0	5.3	6.3	7.0	7.0	5.3	6.7	7.3	6.4
PARAMOUNT (PPG-TF-137)	7.3	5.0	6.3	7.3	6.7	5.3	7.0	7.3	6.4
ROWDY (SRX-TPC)	7.0	5.3	6.7	7.3	6.3	5.3	6.7	7.3	6.4
MAESTRO (T31)	7.3	5.0	5.7	6.0	6.7	6.0	7.7	7.7	6.4
W41	7.0	6.0	6.7	7.0	6.7	5.0	6.3	7.0	6.4
ATF 1754	7.3	6.0	6.7	7.3	6.7	4.7	6.0	6.7	6.3
F711	7.3	5.7	7.0	7.7	6.7	4.3	5.7	7.0	6.3
HEMI	7.3	4.3	6.0	7.3	7.0	5.0	7.3	7.0	6.3
TURFWAY (IS-TF 282 M2)	7.0	5.7	6.3	6.7	7.0	4.7	6.0	8.0	6.3
IS-TF-287	6.7	6.0	6.7	6.7	6.7	5.0	6.7	6.7	6.3
ROCKWELL (LTP-TWUU)	7.0	5.3	6.7	7.0	6.0	5.0	6.7	7.3	6.3
THOR (PPG-TF-157)	7.0	4.3	6.3	7.7	7.3	5.0	6.7	6.7	6.3
PSG-PO1	7.0	4.7	6.3	7.0	7.7	5.7	6.3	6.7	6.3
TECHNIQUE (RZ2)	6.7	6.3	7.0	7.3	6.7	4.3	5.7	7.0	6.3
VERT (ATF 1612)	7.0	4.3	6.3	7.3	6.7	4.7	7.0	7.0	6.2
ATF 1704	6.7	5.0	6.7	7.3	7.0	5.0	5.7	7.0	6.2
BULLSEYE	7.0	5.7	6.3	6.7	5.7	5.0	7.0	7.0	6.2
FALCON V	.	5.7	6.3	6.0	7.3	4.7	6.0	7.3	6.2
FIREBIRD 2	6.7	4.7	6.0	6.7	6.7	5.7	6.7	7.0	6.2
JS 916	6.7	5.3	6.3	7.0	7.0	5.0	6.0	6.7	6.2
K12-MCD	7.0	5.7	6.3	6.7	6.3	5.0	6.7	7.0	6.2
AVENGER II (PPG-TF-156)	7.7	6.0	7.0	7.3	6.3	4.7	5.3	6.7	6.2
SUPERSONIC (PPG-TF-170)	7.3	6.3	6.7	7.0	7.0	4.7	5.7	6.3	6.2
EMBRACE (PST-5EV2)	7.0	5.7	6.7	7.3	7.0	4.7	5.0	7.0	6.2
RHAMBLER 2 SRP (LSD)	7.3	4.7	6.0	7.0	7.3	5.0	6.0	7.3	6.2
B23	7.0	5.7	6.7	7.0	6.3	4.7	5.3	7.3	6.1
GTO (BURL TF-2)	7.0	4.7	6.3	7.3	6.0	5.3	6.7	6.7	6.1

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2013 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS							
		MAY	JUN	JUL	AUG	OCT	NOV	DEC	MEAN
UNITUS (IS-TF 289)	7.0	5.3	6.0	6.7	5.7	5.7	5.7	7.7	6.1
IS-TF 311	7.7	5.3	5.7	5.7	6.0	5.7	6.7	7.7	6.1
OLYMPUS (RAD-TF-88)	7.3	4.7	6.0	6.7	5.3	5.7	6.3	8.0	6.1
TRAVERSE 2 SRP (W45)	7.0	5.3	6.0	6.3	6.0	5.3	6.7	7.0	6.1
TRINITY (BIZEM)	7.0	5.7	6.7	7.0	5.7	4.7	5.0	7.0	6.0
TEMPLE (DZ1)	7.0	5.3	6.3	6.7	7.0	5.0	5.0	6.3	6.0
STANDOUT (IS-TF 308 SEL)	7.7	5.3	6.3	7.0	6.7	4.3	5.3	6.7	6.0
REBOUNDER (PICK-W43)	7.0	5.3	6.0	6.0	7.3	5.0	5.7	6.3	6.0
FIRECRACKER SLS (PPG-TF-105)	6.7	4.7	6.3	7.3	7.0	4.3	5.7	6.7	6.0
PPG-TF-115	7.0	5.3	6.0	6.3	6.7	5.3	5.3	7.0	6.0
PST-5BPO	7.0	5.7	6.0	6.0	6.7	5.0	6.0	6.3	6.0
PST-5BRK	7.0	5.3	6.7	7.0	6.3	4.3	6.0	6.0	6.0
PST-5EX2	6.0	6.0	6.0	5.3	5.3	5.0	7.3	7.3	6.0
MERIDIAN (PST-5GRB)	7.0	6.0	6.0	5.7	6.3	5.3	6.3	6.0	6.0
REGENERATE	7.0	5.3	6.7	7.7	6.0	4.3	5.3	6.3	6.0
TERRANO	7.0	4.7	6.0	6.7	6.3	5.3	6.7	6.7	6.0
CAESAR (TY 10)	7.3	5.7	5.7	5.3	6.7	5.0	5.3	7.7	5.9
NIGHTCRAWLER (IS-TF 285)	7.0	5.3	5.3	5.0	6.3	4.7	6.7	7.7	5.9
LEONARDO (LTP-FSD)	7.0	5.7	6.7	7.3	6.7	4.7	4.3	6.0	5.9
XTENDER (PPG-TF-139)	7.0	5.0	5.3	5.3	6.7	5.3	6.7	6.7	5.9
REFLECTION (U45)	7.0	5.0	6.0	6.7	6.7	5.0	5.0	7.0	5.9
FALCON IV	.	5.3	5.3	5.0	6.3	4.7	6.7	7.3	5.8
HOT ROD (BURL TF-136)	7.3	5.0	6.3	7.0	6.0	4.7	4.7	6.7	5.8
INSPIRATION (PST-R5NW)	6.7	5.0	5.7	6.0	6.0	5.0	6.0	7.0	5.8
IS-TF 276 M2	6.7	5.0	5.7	6.0	6.0	4.3	5.7	7.7	5.8
IS-TF 305 SEL	6.7	5.3	5.7	5.7	6.0	4.7	6.0	7.3	5.8
PPG-TF-138	7.0	5.7	6.0	6.0	6.0	4.3	5.7	7.0	5.8
WICHITA (PPG-TF-151)	7.3	5.0	6.0	6.7	7.7	4.3	5.0	6.0	5.8
PST-5DZP	6.0	4.7	6.0	6.3	5.7	5.0	6.0	7.0	5.8
PST-5MVD	7.0	5.7	6.3	6.0	6.0	4.7	5.0	7.0	5.8
SALTILLO (PST-5SALT)	7.0	4.7	5.7	6.0	6.7	4.7	6.0	6.7	5.8
REBEL V (ATF 1736)	7.0	5.7	6.7	6.7	5.7	4.7	4.7	5.7	5.7
COMP. RES. SST	7.3	4.0	4.7	5.3	6.3	5.3	6.7	7.7	5.7
MEMPHIS (GO-DFR)	7.7	4.7	5.3	5.7	6.0	5.0	6.3	7.0	5.7
MICHELANGELO (LTP-F5DPDR)	7.3	5.0	5.7	6.0	5.3	5.0	6.0	6.7	5.7
PPG-TF-135	7.0	5.0	6.0	6.3	6.7	5.0	4.3	6.7	5.7
PSG-TT4	7.0	5.0	6.0	6.0	6.0	4.7	5.0	7.0	5.7
RAD-TF-89	7.0	5.3	5.7	5.7	6.3	4.3	5.3	7.3	5.7
RAD-TF-92	7.3	4.3	5.3	5.7	6.3	4.3	6.7	7.0	5.7
TRENDING (IS-TF 269 SEL)	7.3	4.0	5.0	5.7	5.7	5.3	6.0	7.3	5.6
IS-TF 272	7.0	3.7	5.0	6.3	6.0	4.7	6.3	7.0	5.6
JS 818	7.3	4.0	5.7	6.3	5.0	5.7	6.0	6.7	5.6
DYNAMITE LS (PPG-TF-145)	7.0	4.3	5.0	5.3	5.7	5.3	6.0	7.3	5.6
PSG-8BP2	6.7	4.0	5.0	5.7	6.3	5.0	6.0	7.0	5.6
TEMPTATION (OR-21)	7.3	5.7	5.7	5.0	6.7	4.7	5.0	6.3	5.6

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2013 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS							
		MAY	JUN	JUL	AUG	OCT	NOV	DEC	MEAN
CROSSFIRE 4 (IS-TF 310 SEL)	7.0	5.7	6.0	6.3	6.0	4.3	4.3	6.0	5.5
RAIN DANCE (PST-5SDT)	7.0	4.7	5.3	5.7	5.7	4.7	5.7	7.0	5.5
AQUADUCT	8.0	5.0	5.0	4.7	6.0	4.3	5.7	7.0	5.4
BAR FA 121091	7.0	4.3	5.0	5.0	6.3	5.0	5.7	6.7	5.4
GRANDE 3	7.0	3.3	5.0	6.0	6.3	4.7	5.0	7.3	5.4
DIABLO (IS-TF 330)	7.3	4.3	5.3	6.0	4.7	5.0	5.0	7.3	5.4
JS 819	7.0	4.7	5.3	5.7	6.3	4.7	4.7	6.7	5.4
PSG-GSD	7.0	4.7	5.3	6.0	5.0	4.3	5.7	7.0	5.4
RAD-TF-83	7.0	4.7	5.0	5.0	5.3	5.3	5.7	7.0	5.4
BAR FA 121095	7.0	4.0	4.7	5.3	5.0	5.3	6.3	6.3	5.3
MARAUDER	7.3	4.0	4.3	4.3	5.7	5.3	6.3	7.3	5.3
BAR FA 120878	7.7	4.7	4.7	4.7	5.0	5.0	5.3	7.0	5.2
FRONTLINE (EXP TF-09)	7.0	5.3	5.3	4.3	5.7	4.7	5.3	6.0	5.2
JS 825	6.7	4.0	4.7	5.0	5.3	4.7	5.7	7.3	5.2
K12-05	7.7	4.0	5.0	5.7	5.3	4.3	5.0	7.0	5.2
ARES (PPG-TF-142)	6.3	4.7	5.7	6.0	6.0	4.3	4.0	5.7	5.2
FOXHOUND (IS-TF 284 M2)	7.0	4.7	5.0	4.7	6.0	4.3	4.7	6.7	5.1
204 RES. BLK4	7.3	4.3	5.0	5.0	6.3	4.0	4.7	6.0	5.0
BAR FA 121089	7.3	4.0	4.3	4.3	5.0	5.0	5.7	6.7	5.0
KINGDOM (DB1)	6.7	3.3	5.0	6.3	5.3	4.7	4.7	6.0	5.0
JS 809	6.3	4.3	4.3	4.3	5.3	4.7	5.0	6.7	5.0
THUNDERSTRUCK (TD1)	6.7	4.0	4.3	4.7	5.7	5.0	5.3	6.3	5.0
WARHAWK	6.3	4.0	4.7	5.0	6.3	4.0	4.7	6.3	5.0
ANNIHILATOR LEDEBOER	6.7	4.0	5.0	5.7	5.0	4.3	4.7	5.7	4.9
K12-13	6.3	3.3	4.3	5.0	5.3	5.3	4.7	5.7	4.8
KY-31	7.0	5.0	5.0	4.3	4.7	3.3	4.3	5.0	4.5
LSD VALUE	1.8	1.4	1.1	1.6	2.1	2.1	2.8	3.0	0.9
C.V. (%)	7.5	15.0	11.3	14.8	15.5	14.4	19.9	12.8	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.

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2013 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	% COVER BEFORE TRAFFIC IN AUGUST		% COVER MID-SEASON TRAFFIC IN OCTOBER		% COVER END OF TRAFFIC EARLY NOVEMBER		% COVER 2-WEEKS AFTER TRAFFIC MID-NOVEMBER	
	GREEN	BARE	GREEN	STRAW	GREEN	STRAW	GREEN	STRAW
RAPTOR III (ZW 44)	99	0	53.3	36.7	85.0	6.7	83.3	3.3
MET 1	99	0	58.3	38.3	70.0	8.3	78.3	6.7
VALKYRIE LS (PPG-TF-172)	99	0	51.7	38.3	73.3	6.7	83.3	0.0
FAITH	99	0	65.0	30.0	81.7	5.0	90.0	0.0
FAYETTE (IS-TF 291)	99	0	60.0	33.3	75.0	5.0	81.7	5.0
FESNOVA	99	0	50.0	40.0	71.7	11.7	78.3	6.7
TITANIUM 2LS (PPG-TF-152)	99	0	51.7	36.7	76.7	5.0	81.7	1.7
FIREWALL (PSG-WE1)	99	0	60.0	38.3	78.3	5.0	83.3	1.7
SWAGGER (PST-5R05)	99	0	53.3	35.0	85.0	5.0	85.0	0.0
4TH MILLENNIUM SRP (U43)	99	0	63.3	33.3	66.7	8.3	75.0	3.3
CATALYST	99	0	65.0	31.7	81.7	6.7	76.7	5.0
SCREAMER LS (PPG-TF-148)	99	0	56.7	40.0	71.7	5.0	80.0	5.0
BLACK TAIL (PPG-TF-150)	99	0	56.7	35.0	75.0	5.0	78.3	0.0
PPG-TF-169	99	0	48.3	45.0	71.7	6.7	68.3	10.0
HOVER (BURL TF-69)	99	0	51.7	40.0	68.3	8.3	76.7	5.0
AMITY (CCR2)	99	0	46.7	41.7	68.3	15.0	73.3	3.3
HOUND08 (IS-TF 307 SEL)	99	0	50.0	33.3	58.3	13.3	71.7	3.3
BLOODHOUND (MET 6 SEL)	99	0	56.7	36.7	71.7	8.3	85.0	1.7
MET-3	99	0	58.3	38.3	71.7	6.7	80.0	5.0
PARAMOUNT (PPG-TF-137)	99	0	60.0	36.7	73.3	5.0	81.7	0.0
ROWDY (SRX-TPC)	99	0	56.7	38.3	76.7	5.0	80.0	3.3
MAESTRO (T31)	99	0	60.0	33.3	80.0	5.0	83.3	0.0
W41	99	0	50.0	41.7	75.0	5.0	80.0	6.7
ATF 1754	99	0	46.7	40.0	70.0	11.7	76.7	5.0
F711	99	0	50.0	43.3	70.0	8.3	71.7	5.0
HEMI	99	0	53.3	41.7	78.3	8.3	76.7	3.3
TURFWAY (IS-TF 282 M2)	99	0	50.0	40.0	75.0	10.0	80.0	0.0
IS-TF-287	99	0	51.7	36.7	71.7	8.3	76.7	5.0
ROCKWELL (LTP-TWUU)	99	0	50.0	40.0	70.0	10.0	80.0	5.0
THOR (PPG-TF-157)	99	0	51.7	38.3	73.3	6.7	78.3	3.3
PSG-PO1	99	0	63.3	31.7	71.7	8.3	80.0	10.0
TECHNIQUE (RZ2)	99	0	43.3	38.3	66.7	5.0	71.7	10.0
VERT (ATF 1612)	99	0	50.0	40.0	76.7	5.0	80.0	3.3
ATF 1704	99	0	46.7	38.3	65.0	10.0	80.0	3.3
BULLSEYE	99	0	56.7	33.3	75.0	6.7	76.7	6.7
FALCON V	99	0	50.0	36.7	71.7	5.0	76.7	3.3
FIREBIRD 2	99	0	60.0	36.7	73.3	6.7	76.7	1.7
JS 916	99	0	53.3	40.0	65.0	10.0	80.0	6.7
K12-MCD	99	0	55.0	36.7	70.0	5.0	81.7	1.7
AVENGER II (PPG-TF-156)	99	0	50.0	43.3	60.0	11.7	70.0	13.3
SUPERSONIC (PPG-TF-170)	99	0	48.3	38.3	70.0	6.7	70.0	6.7
EMBRACE (PST-5EV2)	99	0	46.7	40.0	61.7	16.7	75.0	5.0
RHAMBLER 2 SRP (LSD)	99	0	53.3	40.0	70.0	8.3	76.7	3.3
B23	99	0	43.3	45.0	61.7	10.0	80.0	3.3
GTO (BURL TF-2)	99	0	53.3	38.3	80.0	11.7	66.7	11.7

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2013 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	% COVER BEFORE TRAFFIC IN AUGUST		% COVER MID-SEASON TRAFFIC IN OCTOBER		% COVER END OF TRAFFIC EARLY NOVEMBER		% COVER 2-WEEKS AFTER TRAFFIC MID-NOVEMBER	
	GREEN	BARE	GREEN	STRAW	GREEN	STRAW	GREEN	STRAW
UNITUS (IS-TF 289)	99	0	61.7	26.7	66.7	5.0	81.7	3.3
IS-TF 311	99	0	58.3	36.7	75.0	6.7	83.3	3.3
OLYMPUS (RAD-TF-88)	99	0	61.7	33.3	75.0	5.0	81.7	1.7
TRAVERSE 2 SRP (W45)	99	0	56.7	36.7	68.3	11.7	83.3	8.3
TRINITY (BIZEM)	99	0	50.0	41.7	61.7	13.3	75.0	10.0
TEMPLE (DZ1)	99	0	50.0	40.0	56.7	8.3	71.7	5.0
STANDOUT (IS-TF 308 SEL)	99	0	43.3	43.3	65.0	10.0	68.3	10.0
REBOUNDER (PICK-W43)	99	0	50.0	38.3	63.3	11.7	71.7	6.7
FIRECRACKER SLS (PPG-TF-105)	99	0	45.0	38.3	66.7	8.3	73.3	6.7
PPG-TF-115	99	0	55.0	36.7	65.0	8.3	73.3	3.3
PST-5BPO	99	0	53.3	40.0	71.7	6.7	70.0	13.3
PST-5BRK	99	0	43.3	43.3	65.0	6.7	66.7	6.7
PST-5EX2	99	0	53.3	38.3	83.3	5.0	80.0	6.7
MERIDIAN (PST-5GRB)	99	0	58.3	33.3	73.3	6.7	68.3	10.0
REGENERATE	99	0	46.7	40.0	60.0	11.7	73.3	5.0
TERRANO	99	0	58.3	33.3	73.3	15.0	78.3	1.7
CAESAR (TY 10)	99	0	50.0	40.0	61.7	10.0	85.0	1.7
NIGHTCRAWLER (IS-TF 285)	99	0	46.7	41.7	68.3	11.7	83.3	3.3
LEONARDO (LTP-FSD)	99	0	43.3	45.0	55.0	13.3	66.7	13.3
XTENDER (PPG-TF-139)	99	0	58.3	35.0	78.3	6.7	75.0	1.7
REFLECTION (U45)	99	0	53.3	38.3	61.7	8.3	76.7	8.3
FALCON IV	99	0	48.3	40.0	71.7	5.0	80.0	0.0
HOT ROD (BURL TF-136)	99	0	50.0	35.0	55.0	15.0	66.7	10.0
INSPIRATION (PST-R5NW)	99	0	50.0	40.0	75.0	5.0	71.7	8.3
IS-TF 276 M2	99	0	43.3	43.3	63.3	8.3	78.3	5.0
RHIZING MOON (IS-TF 305 SEL)	99	0	48.3	41.7	73.3	6.7	76.7	1.7
PPG-TF-138	99	0	45.0	40.0	63.3	5.0	75.0	1.7
WICHITA (PPG-TF-151)	99	0	43.3	43.3	51.7	13.3	61.7	10.0
PST-5DZP	99	0	53.3	41.7	66.7	6.7	75.0	6.7
PST-5MVD	99	0	48.3	40.0	66.7	11.7	76.7	11.7
SALTILLO (PST-5SALT)	99	0	50.0	31.7	68.3	6.7	70.0	0.0
REBEL V (ATF 1736)	99	0	43.3	40.0	55.0	11.7	66.7	13.3
COMP. RES. SST	99	0	60.0	35.0	75.0	5.0	85.0	1.7
MEMPHIS (GO-DFR)	99	0	45.0	36.7	73.3	5.0	75.0	3.3
MICHELANGELO (LTP-F5DPDR)	99	0	51.7	40.0	71.7	11.7	78.3	8.3
PPG-TF-135	99	0	48.3	43.3	55.0	10.0	71.7	5.0
PSG-TT4	99	0	48.3	35.0	63.3	5.0	71.7	3.3
RAD-TF-89	99	0	50.0	38.3	58.3	8.3	73.3	6.7
RAD-TF-92	99	0	48.3	43.3	66.7	5.0	73.3	3.3
TRENDING (IS-TF 269 SEL)	99	0	56.7	38.3	65.0	11.7	78.3	5.0
IS-TF 272	99	0	48.3	38.3	66.7	13.3	73.3	3.3
JS 818	99	0	56.7	36.7	70.0	11.7	73.3	1.7
DYNAMITE LS (PPG-TF-145)	99	0	55.0	40.0	70.0	8.3	80.0	5.0
PSG-8BP2	99	0	65.0	31.7	61.7	10.0	80.0	5.0
TEMPTATION (OR-21)	99	0	51.7	35.0	55.0	13.3	66.7	13.3

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2013 DATA

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

NAME	% COVER BEFORE TRAFFIC IN AUGUST		% COVER MID-SEASON TRAFFIC IN OCTOBER		% COVER END OF TRAFFIC EARLY NOVEMBER		% COVER 2-WEEKS AFTER TRAFFIC MID-NOVEMBER	
	GREEN	BARE	GREEN	STRAW	GREEN	STRAW	GREEN	STRAW
CROSSFIRE 4 (IS-TF 310 SEL)	99	0	50.0	40.0	55.0	10.0	66.7	10.0
RAIN DANCE (PST-5SDT)	99	0	46.7	33.3	61.7	6.7	78.3	8.3
AQUADUCT	99	0	50.0	43.3	66.7	10.0	73.3	6.7
BAR FA 121091	99	0	50.0	40.0	63.3	6.7	73.3	1.7
GRANDE 3	99	0	46.7	43.3	60.0	8.3	73.3	6.7
DIABLO (IS-TF 330)	99	0	51.7	40.0	56.7	13.3	80.0	5.0
JS 819	99	0	46.7	38.3	53.3	8.3	68.3	8.3
PSG-GSD	99	0	53.3	35.0	68.3	10.0	75.0	10.0
RAD-TF-83	99	0	53.3	36.7	63.3	8.3	75.0	5.0
BAR FA 121095	99	0	55.0	38.3	75.0	5.0	73.3	6.7
MARAUDER	99	0	53.3	36.7	68.3	8.3	80.0	3.3
BAR FA 120878	99	0	51.7	40.0	60.0	6.7	80.0	6.7
FRONTLINE (EXP TF-09)	99	0	46.7	38.3	63.3	13.3	71.7	11.7
JS 825	99	0	48.3	36.7	65.0	6.7	75.0	6.7
K12-05	99	0	40.0	45.0	60.0	16.7	71.7	3.3
ARES (PPG-TF-142)	99	0	41.7	38.3	48.3	6.7	61.7	10.0
FOXHOUND (IS-TF 284 M2)	99	0	46.7	41.7	56.7	11.7	66.7	11.7
204 RES. BLK4	99	0	40.0	36.7	50.0	13.3	68.3	15.0
BAR FA 121089	99	0	50.0	40.0	65.0	10.0	75.0	6.7
KINGDOM (DB1)	99	0	48.3	36.7	58.3	6.7	65.0	8.3
JS 809	99	0	51.7	40.0	66.7	5.0	75.0	8.3
THUNDERSTRUCK (TD1)	99	0	55.0	35.0	65.0	15.0	70.0	10.0
WARHAWK	99	0	43.3	40.0	51.7	18.3	68.3	13.3
ANNIHILATOR LEDEBOER	99	0	43.3	40.0	56.7	5.0	65.0	15.0
K12-13	99	0	55.0	33.3	56.7	11.7	68.3	13.3
KY-31	99	0	30.0	41.7	46.7	16.7	58.3	16.7
LSD VALUE	0	0	18.8	29.4	24.6	18.8	30.5	23.5
C.V. (%)	0	.	15.7	16.1	16.1	60.8	12.1	108.0

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 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2014 DATA

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

NAME	BEFORE TRAFFIC IN SEPTEMBER		TRAFFIC IN OCTOBER		TRAFFIC IN EARLY NOVEMBER		TRAFFIC IN MID NOVEMBER		QUALITY RATINGS								
	% GREEN	% STRAW	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MET 1	99	0	73.3	26.7	73.3	26.7	65.0	35.0	4.7	7.7	8.0	8.7	7.7	6.3	6.7	7.0	7.1
HOUNDOG8 (IS-TF 307 SEL)	99	0	50.0	50.0	50.0	50.0	43.3	56.7	6.7	7.3	8.0	8.3	8.7	5.0	5.7	6.7	7.0
FAYETTE (IS-TF 291)	99	0	70.0	30.0	70.0	30.0	65.0	35.0	6.3	7.0	7.3	7.0	6.7	6.0	7.3	7.7	6.9
FIREWALL (PSG-WEL)	99	0	66.7	33.3	66.7	33.3	58.3	41.7	5.3	6.7	7.3	6.7	8.0	6.3	7.3	7.7	6.9
RAPTOR III (ZW 44)	99	0	88.3	11.7	88.3	11.7	80.0	20.0	5.3	5.7	7.3	8.3	8.0	5.7	7.3	7.3	6.9
HOVER (BURL TF-69)	99	0	73.3	26.7	73.3	26.7	63.3	36.7	5.3	6.7	6.7	8.3	7.3	5.3	7.3	7.3	6.8
CATALYST	99	0	65.0	35.0	65.0	35.0	66.7	33.3	4.7	6.3	7.3	7.3	7.7	6.7	7.3	7.3	6.8
AMITY (CCR2)	99	0	70.0	30.0	70.0	30.0	61.7	38.3	6.0	8.0	8.0	7.7	7.7	4.3	5.3	7.0	6.8
FAITH	99	0	63.3	36.7	63.3	36.7	58.3	41.7	4.3	6.7	8.3	7.7	7.7	5.0	7.0	7.7	6.8
BLOODHOUND (MET 6 SEL)	99	0	71.7	28.3	71.7	28.3	71.7	28.3	6.3	6.7	7.3	7.3	7.3	5.3	6.3	7.7	6.8
PSG-PO1	99	0	70.0	30.0	70.0	30.0	60.0	40.0	4.7	6.3	7.0	7.7	8.3	6.7	7.3	6.7	6.8
SWAGGER (PST-5RO5)	99	0	73.3	26.7	73.3	26.7	60.0	40.0	7.3	7.7	6.0	6.0	7.3	5.0	7.3	7.3	6.8
ROWDY (SRX-TPC)	99	0	71.7	28.3	71.7	28.3	66.7	33.3	6.3	6.7	6.7	6.7	7.3	6.3	7.0	7.3	6.8
4TH MILLENNIUM SRP (U43)	99	0	76.7	23.3	76.7	23.3	68.3	31.7	5.3	6.7	7.0	6.7	7.7	7.0	7.0	7.3	6.8
BLACK TAIL (PPG-TF-150)	99	0	75.0	25.0	75.0	25.0	70.0	30.0	6.3	6.7	7.0	7.3	7.0	5.0	6.7	7.3	6.7
RHAMBLER 2 SRP (LSD)	99	0	80.0	20.0	80.0	20.0	71.7	28.3	4.7	5.7	8.0	7.3	7.0	6.0	6.7	8.0	6.7
MET-3	99	0	75.0	25.0	75.0	25.0	75.0	25.0	5.0	6.3	6.7	6.3	8.0	6.3	7.3	7.0	6.6
VALKYRIE LS (PPG-TF-172)	99	0	66.7	33.3	66.7	33.3	63.3	36.7	5.7	6.7	8.3	7.7	7.7	4.3	5.7	6.7	6.6
W41	99	0	63.3	36.7	63.3	36.7	50.0	50.0	6.3	7.0	6.7	7.3	7.3	5.0	6.3	7.0	6.6
TRAVERSE 2 SRP (W45)	99	0	65.0	35.0	65.0	35.0	55.0	45.0	5.3	7.0	6.0	7.0	7.7	6.0	6.7	7.3	6.6
VERT (ATF 1612)	99	0	70.0	30.0	70.0	30.0	60.0	40.0	4.3	6.3	8.0	7.0	7.0	4.7	7.0	7.7	6.5
FESNOVA	99	0	60.0	40.0	60.0	40.0	55.0	45.0	6.0	6.0	6.0	7.7	7.3	5.3	6.3	7.0	6.5
XTENDER (PPG-TF-139)	99	0	68.3	31.7	68.3	31.7	63.3	36.7	5.3	5.0	6.0	6.7	7.3	6.3	7.7	7.3	6.5
SCREAMER LS (PPG-TF-148)	99	0	66.7	33.3	66.7	33.3	56.7	43.3	5.7	5.7	7.3	7.0	7.3	5.7	6.3	7.0	6.5
TITANIUM 2LS (PPG-TF-152)	99	0	53.3	46.7	53.3	46.7	48.3	51.7	5.3	6.3	6.7	7.0	8.0	5.3	6.7	7.0	6.5
EMBRACE (PST-5EV2)	99	0	68.3	31.7	68.3	31.7	68.3	31.7	6.0	7.7	7.3	7.3	6.7	4.7	5.0	7.0	6.5
TERRANO	99	0	68.3	31.7	68.3	31.7	63.3	36.7	5.3	6.0	7.3	6.3	6.3	6.0	7.0	7.7	6.5
B23	99	0	85.0	15.0	85.0	15.0	76.7	23.3	5.3	7.3	7.0	6.3	6.7	5.3	6.0	7.3	6.4
FALCON V	99	0	65.0	35.0	65.0	35.0	61.7	38.3	6.0	6.0	7.0	6.7	8.0	4.3	5.7	7.3	6.4
IS-TF 305 SEL	99	0	73.3	26.7	73.3	26.7	68.3	31.7	5.3	6.0	6.7	6.0	7.7	5.0	6.3	8.0	6.4
K12-MCD	99	0	75.0	25.0	75.0	25.0	70.0	30.0	5.7	7.3	5.7	6.0	7.7	5.0	6.7	7.0	6.4
SUPERSONIC (PPG-TF-170)	99	0	61.7	38.3	61.7	38.3	51.7	48.3	6.7	7.3	6.7	7.0	6.7	5.0	6.0	6.0	6.4
RAD-TF-89	99	0	65.0	35.0	65.0	35.0	55.0	45.0	6.0	6.7	6.7	6.3	7.0	4.7	5.7	8.0	6.4
TECHNIQUE (RZ2)	99	0	73.3	26.7	73.3	26.7	65.0	35.0	6.3	7.0	6.7	6.0	6.7	5.0	6.3	7.0	6.4
F711	99	0	60.0	40.0	60.0	40.0	55.0	45.0	6.0	6.3	7.7	6.7	7.0	4.3	5.7	6.7	6.3
FIREBIRD 2	99	0	63.3	36.7	63.3	36.7	60.0	40.0	5.7	6.0	6.7	6.7	7.0	5.7	6.3	6.7	6.3
GTO (BURL TF-2)	99	0	73.3	26.7	73.3	26.7	58.3	41.7	5.0	6.7	7.0	5.7	7.0	5.7	6.3	7.0	6.3
HEMI	99	0	56.7	43.3	56.7	43.3	53.3	46.7	4.3	5.0	7.7	6.7	7.3	5.7	7.7	6.3	6.3
TURFWAY (IS-TF 282 M2)	99	0	68.3	31.7	68.3	31.7	68.3	31.7	4.7	6.0	6.3	6.7	7.0	5.7	6.7	7.0	6.3
IS-TF-287	99	0	73.3	26.7	73.3	26.7	63.3	36.7	5.7	6.3	5.7	7.0	7.3	5.3	6.7	6.3	6.3
LEONARDO (LTP-FSD)	99	0	73.3	26.7	73.3	26.7	60.0	40.0	5.3	7.7	7.7	6.7	6.7	5.0	4.7	6.3	6.3
REBOUNDER (PICK-W43)	99	0	66.7	33.3	66.7	33.3	61.7	38.3	5.0	7.0	6.3	8.3	7.0	4.7	5.3	6.3	6.3
AVENGER II (PPG-TF-156)	99	0	76.7	23.3	76.7	23.3	61.7	38.3	5.7	7.3	7.7	7.0	6.7	4.7	5.3	6.0	6.3
THOR (PPG-TF-157)	99	0	71.7	28.3	71.7	28.3	61.7	38.3	5.0	6.3	7.7	6.7	6.7	4.7	6.3	6.7	6.3
PPG-TF-169	99	0	76.7	23.3	76.7	23.3	66.7	33.3	6.0	6.7	5.7	7.0	7.7	5.0	6.0	6.7	6.3

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2014 DATA

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

NAME	BEFORE TRAFFIC IN SEPTEMBER		TRAFFIC IN OCTOBER		TRAFFIC IN EARLY NOVEMBER		TRAFFIC IN MID NOVEMBER		MAY	JUN	JUL	QUALITY RATINGS					MEAN
	% GREEN	% STRAW	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE				AUG	SEP	OCT	NOV	DEC	
PST-5DZP	99	0	61.7	38.3	61.7	38.3	53.3	46.7	4.7	6.0	7.0	6.3	6.3	5.7	6.7	7.3	6.3
REGENERATE	99	0	63.3	36.7	63.3	36.7	60.0	40.0	5.0	6.7	7.3	7.0	6.7	5.0	6.0	6.7	6.3
REFLECTION (U45)	99	0	65.0	35.0	65.0	35.0	56.7	43.3	4.0	7.0	7.0	5.7	7.3	6.0	6.0	7.0	6.3
ATF 1754	99	0	73.3	26.7	73.3	26.7	63.3	36.7	6.3	6.7	6.7	6.0	7.3	4.3	5.7	6.7	6.2
JS 916	99	0	68.3	31.7	68.3	31.7	58.3	41.7	5.0	7.0	6.0	6.7	7.3	5.0	6.0	6.7	6.2
PARAMOUNT (PPG-TF-137)	99	0	70.0	30.0	70.0	30.0	70.0	30.0	5.0	6.3	7.7	5.7	7.0	5.0	6.3	6.7	6.2
PPG-TF-138	99	0	76.7	23.3	76.7	23.3	63.3	36.7	5.3	6.0	5.7	6.3	7.0	5.0	6.3	7.7	6.2
WICHITA (PPG-TF-151)	99	0	81.7	18.3	81.7	18.3	81.7	18.3	6.0	6.7	7.0	7.3	7.3	4.3	5.0	5.7	6.2
MAESTRO (T31)	99	0	63.3	36.7	63.3	36.7	58.3	41.7	5.0	5.7	5.3	6.0	6.3	6.7	7.7	7.0	6.2
ATF 1704	99	0	66.7	33.3	66.7	33.3	53.3	46.7	4.3	6.3	7.3	6.3	7.0	5.0	5.7	7.0	6.1
CAESAR (TY 10)	99	0	58.3	41.7	58.3	41.7	48.3	51.7	6.0	5.3	5.7	7.3	6.0	5.3	5.7	7.3	6.1
HOT ROD (BURL TF-136)	99	0	56.7	43.3	56.7	43.3	51.7	48.3	5.0	5.7	8.0	6.7	6.7	5.0	5.0	6.7	6.1
STANDOUT (IS-TF 308 SEL)	99	0	76.7	23.3	76.7	23.3	71.7	28.3	5.7	6.3	6.0	6.3	8.0	4.7	5.0	6.7	6.1
ROCKWELL (LTP-TWUU)	99	0	75.0	25.0	75.0	25.0	66.7	33.3	4.3	6.7	6.7	5.7	6.7	5.0	6.7	7.3	6.1
PST-5BPO	99	0	63.3	36.7	63.3	36.7	53.3	46.7	6.3	6.7	5.3	6.3	6.7	5.0	6.0	6.3	6.1
PST-5BRK	99	0	68.3	31.7	68.3	31.7	53.3	46.7	4.7	6.0	7.7	6.7	7.3	4.3	6.0	6.0	6.1
PST-5EX2	99	0	71.7	28.3	71.7	28.3	56.7	43.3	6.0	6.7	5.7	4.3	6.7	5.0	7.3	7.3	6.1
OLYMPUS (RAD-TF-88)	99	0	65.0	35.0	65.0	35.0	61.7	38.3	4.7	6.3	6.7	5.3	6.3	5.7	6.3	7.3	6.1
SALTILLO (PST-5SALT)	99	0	65.0	35.0	65.0	35.0	60.0	40.0	5.0	6.0	5.7	7.3	7.0	5.0	6.0	6.7	6.1
REBEL V (ATF 1736)	99	0	68.3	31.7	68.3	31.7	55.0	45.0	6.7	7.3	7.0	5.3	6.3	4.7	4.7	5.7	6.0
BULLSEYE	99	0	65.0	35.0	65.0	35.0	60.0	40.0	5.3	5.3	6.7	5.7	6.3	5.0	7.0	6.7	6.0
COMP. RES. SST	99	0	73.3	26.7	73.3	26.7	73.3	26.7	4.3	5.0	5.3	6.7	6.3	5.7	6.7	7.7	6.0
TEMPLE (DZ1)	99	0	81.7	18.3	81.7	18.3	73.3	26.7	4.7	5.7	7.0	7.0	6.7	5.0	5.0	6.7	6.0
INSPIRATION (PST-R5NW)	99	0	65.0	35.0	65.0	35.0	50.0	50.0	5.0	6.0	5.0	6.7	7.0	5.0	6.0	7.0	6.0
IS-TF 276 M2	99	0	86.7	13.3	86.7	13.3	76.7	23.3	5.0	5.7	5.7	6.3	7.3	4.7	6.0	7.7	6.0
FIRECRACKER SLS (PPG-TF-105)	99	0	76.7	23.3	76.7	23.3	66.7	33.3	5.3	6.7	7.0	7.3	6.0	4.0	5.3	6.0	6.0
DYNAMITE LS (PPG-TF-145)	99	0	76.7	23.3	76.7	23.3	76.7	23.3	4.0	5.3	5.3	6.0	7.0	6.3	7.0	7.0	6.0
MERIDIAN (PST-5GRB)	99	0	60.0	40.0	60.0	40.0	50.0	50.0	5.7	6.0	5.3	5.7	7.7	5.3	6.3	6.0	6.0
PST-5MVD	99	0	80.0	20.0	80.0	20.0	75.0	25.0	6.7	6.3	6.0	6.3	6.0	4.7	5.0	7.0	6.0
TEMPTATION (OR-21)	99	0	80.0	20.0	80.0	20.0	71.7	28.3	6.0	6.0	5.0	5.7	7.0	5.3	5.7	7.0	6.0
AQUADUCT	99	0	73.3	26.7	73.3	26.7	68.3	31.7	5.0	4.7	5.7	5.7	7.7	4.7	6.0	7.7	5.9
FALCON IV	99	0	60.0	40.0	60.0	40.0	50.0	50.0	4.7	5.0	5.3	6.7	6.3	5.3	7.0	7.0	5.9
MICHELANGELO (LTP-F5DPDR)	99	0	71.7	28.3	71.7	28.3	61.7	38.3	5.0	5.7	5.7	5.7	6.3	6.0	6.3	6.7	5.9
PPG-TF-115	99	0	73.3	26.7	73.3	26.7	65.0	35.0	5.0	5.3	7.0	6.3	6.7	5.3	5.3	6.3	5.9
PSG-TT4	99	0	70.0	30.0	70.0	30.0	70.0	30.0	6.0	6.7	6.3	5.7	6.3	4.7	5.0	6.7	5.9
TRINITY (BIZEM)	99	0	78.3	21.7	78.3	21.7	73.3	26.7	5.3	5.7	7.0	5.7	5.7	4.7	5.0	7.0	5.8
NIGHTCRAWLER (IS-TF 285)	99	0	63.3	36.7	63.3	36.7	48.3	51.7	5.0	5.0	4.7	6.0	6.7	5.0	7.0	7.0	5.8
UNITUS (IS-TF 289)	99	0	70.0	30.0	70.0	30.0	61.7	38.3	4.3	5.0	6.0	5.7	5.7	6.0	6.0	8.0	5.8
CROSSFIRE 4 (IS-TF 310 SEL)	99	0	58.3	41.7	58.3	41.7	45.0	55.0	5.7	6.0	6.3	6.3	7.3	4.3	4.3	6.0	5.8
IS-TF 311	99	0	61.7	38.3	61.7	38.3	56.7	43.3	5.0	4.7	6.7	5.7	6.3	4.7	5.7	7.7	5.8
JS 818	99	0	71.7	28.3	71.7	28.3	63.3	36.7	4.3	5.3	6.0	4.0	6.3	6.3	6.7	7.3	5.8
PPG-TF-135	99	0	65.0	35.0	65.0	35.0	61.7	38.3	5.3	6.3	6.0	7.0	7.3	4.7	4.0	5.7	5.8
RAIN DANCE (PST-5SDT)	99	0	53.3	46.7	53.3	46.7	48.3	51.7	4.7	5.3	6.0	5.3	7.3	5.0	6.0	6.7	5.8
WARHAWK	99	0	58.3	41.7	58.3	41.7	50.0	50.0	4.0	5.0	6.0	6.7	7.0	4.7	5.3	7.3	5.8

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2014 DATA

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

NAME	BEFORE TRAFFIC IN SEPTEMBER		TRAFFIC IN OCTOBER		TRAFFIC IN EARLY NOVEMBER		TRAFFIC IN MID NOVEMBER		QUALITY RATINGS								
	% GREEN	% STRAW	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
FOXHOUND (IS-TF 284 M2)	99	0	71.7	28.3	71.7	28.3	58.3	41.7	5.0	6.0	4.3	5.7	7.3	5.0	5.3	6.7	5.7
JS 819	99	0	71.7	28.3	71.7	28.3	61.7	38.3	4.7	5.3	5.7	5.7	6.7	5.0	5.0	7.3	5.7
204 RES. BLK4	99	0	63.3	36.7	63.3	36.7	55.0	45.0	4.7	5.7	5.0	6.0	7.0	4.7	5.3	6.3	5.6
MEMPHIS (GO-DFR)	99	0	63.3	36.7	63.3	36.7	53.3	46.7	3.7	4.7	5.7	6.0	5.7	5.3	6.3	7.3	5.6
TRENDING (IS-TF 269 SEL)	99	0	70.0	30.0	70.0	30.0	55.0	45.0	3.0	4.7	6.0	5.7	6.3	5.7	6.0	7.7	5.6
MARAUDER	99	0	60.0	40.0	60.0	40.0	45.0	55.0	5.0	4.7	4.0	5.7	6.3	5.7	6.7	7.0	5.6
ARES (PPG-TF-142)	99	0	68.3	31.7	68.3	31.7	58.3	41.7	4.3	5.3	5.3	6.7	6.3	5.3	5.0	6.7	5.6
ANNIHILATOR	99	0	70.0	30.0	70.0	30.0	65.0	35.0	3.7	5.0	6.0	6.0	6.7	5.3	5.7	6.0	5.5
FRONTLINE (EXP TF-09)	99	0	68.3	31.7	68.3	31.7	53.3	46.7	4.3	5.0	4.0	5.7	7.0	5.7	6.3	6.3	5.5
GRANDE 3	99	0	66.7	33.3	66.7	33.3	51.7	48.3	3.7	5.3	6.0	7.0	6.7	4.3	4.7	6.7	5.5
IS-TF 272	99	0	73.3	26.7	73.3	26.7	63.3	36.7	4.0	4.3	6.3	5.3	6.0	5.0	6.3	7.0	5.5
JS 825	99	0	66.7	33.3	66.7	33.3	56.7	43.3	4.3	4.7	5.3	6.3	6.0	4.7	5.7	7.3	5.5
PSG-8BP2	99	0	68.3	31.7	68.3	31.7	61.7	38.3	3.3	4.7	5.7	6.3	6.3	5.0	6.0	6.7	5.5
RAD-TF-92	99	0	56.7	43.3	56.7	43.3	43.3	56.7	3.3	4.7	6.3	6.3	6.7	4.0	6.0	7.0	5.5
BAR FA 120878	99	0	71.7	28.3	71.7	28.3	68.3	31.7	5.0	4.7	5.0	5.7	5.3	5.0	5.3	7.0	5.4
DIABLO (IS-TF 330)	99	0	76.7	23.3	76.7	23.3	61.7	38.3	4.7	5.3	6.0	4.7	6.0	4.7	4.7	7.3	5.4
PSG-GSD	99	0	70.0	30.0	70.0	30.0	60.0	40.0	4.3	4.7	6.7	4.7	5.7	4.7	6.0	6.7	5.4
THUNDERSTRUCK (TD1)	99	0	71.7	28.3	71.7	28.3	66.7	33.3	4.3	4.7	3.7	6.3	6.7	5.3	5.7	6.7	5.4
BAR FA 121091	99	0	55.0	45.0	55.0	45.0	41.7	58.3	4.0	4.7	4.3	6.7	5.7	5.0	5.7	6.7	5.3
BAR FA 121095	99	0	75.0	25.0	75.0	25.0	65.0	35.0	4.0	3.7	5.0	5.3	5.7	5.3	6.3	6.7	5.3
KINGDOM (DB1)	99	0	61.7	38.3	61.7	38.3	53.3	46.7	3.3	5.0	6.3	5.7	6.7	4.7	4.7	6.0	5.3
RAD-TF-83	99	0	78.3	21.7	78.3	21.7	63.3	36.7	3.7	4.0	5.3	5.3	6.7	5.0	5.3	6.7	5.3
BAR FA 121089	99	0	68.3	31.7	68.3	31.7	63.3	36.7	3.7	4.3	4.0	5.7	5.7	5.0	5.7	6.3	5.0
JS 809	99	0	70.0	30.0	70.0	30.0	61.7	38.3	5.0	3.3	4.7	5.0	5.3	4.7	5.0	6.7	5.0
K12-05	99	0	76.7	23.3	76.7	23.3	71.7	28.3	4.0	5.0	5.0	6.3	6.3	3.3	4.0	6.0	5.0
KY-31	99	0	70.0	30.0	70.0	30.0	55.0	45.0	4.7	5.0	4.3	5.3	5.7	3.7	4.7	5.7	4.9
K12-13	99	0	55.0	45.0	55.0	45.0	55.0	45.0	4.0	4.3	5.3	5.0	5.0	5.0	4.3	5.3	4.8
LSD VALUE	0	0	63.1	63.1	63.1	63.1	65.9	65.9	2.1	1.6	2.2	3.2	2.0	2.0	3.1	2.8	0.9
C.V. (%)	0	.	18.8	41.6	18.8	41.6	23.7	37.0	20.4	15.8	18.4	19.1	13.3	17.0	19.9	12.7	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

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT') GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2015 DATA

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

NAME	APR	MAY	JUN	JUL	SEP	OCT	NOV	DEC	MEAN
MET-3	7.3	6.3	7.7	7.7	7.7	6.3	6.3	7.3	7.1
4TH MILLENNIUM SRP (U43)	7.3	6.0	7.3	7.3	7.3	6.7	6.7	7.3	7.0
CATALYST	7.3	5.7	7.3	7.3	7.3	6.7	6.7	7.3	7.0
RAPTOR III (ZW 44)	6.7	6.0	8.0	7.3	7.7	5.7	6.0	6.7	6.8
TRAVERSE 2 SRP (W45)	6.7	6.0	7.7	7.3	7.0	6.0	6.0	6.7	6.7
DYNAMITE LS (PPG-TF-145)	7.0	5.3	7.0	7.0	7.0	6.3	6.3	7.0	6.6
MET 1	6.7	5.7	7.7	7.0	7.0	6.0	6.0	6.7	6.6
REFLECTION (U45)	6.7	5.3	7.7	7.3	7.0	6.0	6.0	6.7	6.6
FAYETTE (IS-TF 291)	6.3	6.3	7.0	7.0	6.7	6.0	6.0	6.3	6.5
FIREWALL (PSG-WE1)	6.7	5.7	7.0	6.7	7.0	6.3	6.3	6.7	6.5
BLOODHOUND (MET 6 SEL)	6.3	6.3	7.3	7.0	7.0	5.7	5.7	6.3	6.5
PSG-PO1	6.7	5.0	7.3	6.3	7.0	6.3	6.3	6.7	6.5
XTENDER (PPG-TF-139)	6.7	6.0	7.0	7.0	7.0	6.0	6.0	6.7	6.5
ROWDY (SRX-TPC)	6.7	5.7	6.7	6.0	6.7	6.3	6.3	6.7	6.4
TITANIUM 2LS (PPG-TF-152)	6.3	6.0	7.3	7.3	7.3	5.3	5.3	6.3	6.4
W41	6.0	6.7	7.7	7.3	7.0	5.0	5.3	6.0	6.4
ATF 1704	6.0	5.7	7.7	7.7	7.0	5.0	5.0	6.0	6.3
GTO (BURL TF-2)	6.3	5.7	7.0	7.0	6.7	5.7	6.0	6.3	6.3
HOVER (BURL TF-69)	6.3	5.7	7.7	6.7	6.7	5.3	5.7	6.3	6.3
STANDOUT (IS-TF 308 SEL)	6.0	6.3	7.3	7.3	7.3	5.0	5.0	6.0	6.3
SUPERSONIC (PPG-TF-170)	6.0	6.7	7.7	7.3	6.7	5.0	5.3	6.0	6.3
ROCKWELL (LTP-TWUU)	5.7	6.0	7.3	8.0	7.0	5.0	5.3	5.7	6.3
TRINITY (BIZEM)	5.7	6.7	7.7	8.0	6.7	4.7	4.7	5.7	6.2
FESNOVA	6.0	6.0	7.3	6.7	6.7	5.3	5.7	6.0	6.2
K12-MCD	6.0	6.0	6.7	6.7	7.0	5.3	5.7	6.0	6.2
MICHELANGELO (LTP-F5DPDR)	6.0	5.7	7.0	7.0	6.3	5.7	5.7	6.0	6.2
TURFWAY (IS-TF 282 M2)	6.3	5.3	7.0	6.7	6.7	5.7	5.7	6.3	6.2
ARES (PPG-TF-142)	6.0	5.3	7.0	7.0	6.7	5.3	5.3	6.0	6.1
BLACK TAIL (PPG-TF-150)	6.0	6.3	7.0	6.7	6.7	5.0	5.0	6.0	6.1
HOUNDOG8 (IS-TF 307 SEL)	6.0	6.0	7.3	6.3	7.3	5.0	5.0	6.0	6.1
PPG-TF-169	6.0	6.3	7.0	6.7	7.0	5.0	5.0	6.0	6.1
VALKYRIE LS (PPG-TF-172)	5.7	6.0	7.7	7.0	7.0	4.7	5.0	5.7	6.1
REGENERATE	6.0	5.7	7.0	7.0	6.7	5.0	5.3	6.0	6.1
SALTILLO (PST-5SALT)	5.7	5.7	7.3	7.0	7.0	5.0	5.3	5.7	6.1
TECHNIQUE (RZ2)	6.0	6.3	7.0	7.0	6.7	5.0	5.0	6.0	6.1
TERRANO	6.0	5.7	7.0	6.3	6.0	6.0	6.0	6.0	6.1
THOR (PPG-TF-157)	5.7	6.0	7.3	7.3	6.7	5.0	5.0	5.7	6.1
AVENGER II (PPG-TF-156)	5.7	6.3	7.3	7.3	6.7	4.7	4.7	5.7	6.0
AMITY (CCR2)	5.3	6.0	7.7	7.0	7.3	4.3	4.7	5.3	6.0
FIREBIRD 2	6.0	5.7	6.7	6.3	6.3	5.7	5.7	6.0	6.0
FOXHOUND (IS-TF 284 M2)	5.7	5.7	7.0	7.0	7.0	5.0	5.3	5.7	6.0
HEMI	6.7	4.7	6.3	6.0	6.7	5.7	5.7	6.7	6.0
CROSSFIRE 4 (IS-TF 310 SEL)	5.3	6.3	7.7	7.3	7.0	4.3	4.3	5.3	6.0
JS 916	6.0	5.7	7.0	6.7	6.7	5.0	5.0	6.0	6.0
MAESTRO (T31)	6.0	5.3	6.3	6.0	6.0	6.0	6.0	6.0	6.0

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2015 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/								MEAN
	APR	MAY	JUN	JUL	SEP	OCT	NOV	DEC	
REBOUNDER (PICK-W43)	5.7	6.0	7.3	7.3	7.0	4.7	4.7	5.7	6.0
PPG-TF-115	6.3	5.3	6.7	6.3	6.3	5.3	5.3	6.3	6.0
PARAMOUNT (PPG-TF-137)	6.0	5.7	6.7	6.7	6.7	5.0	5.3	6.0	6.0
PST-5BRK	5.3	6.0	7.7	7.7	7.3	4.3	4.7	5.3	6.0
RHAMBLER 2 SRP (LSD)	6.0	5.3	6.7	6.3	6.3	5.7	5.7	6.0	6.0
SCREAMER LS (PPG-TF-148)	6.3	5.7	6.7	6.0	6.3	5.7	5.3	6.3	6.0
AQUADUCT	5.7	5.7	6.7	6.7	6.7	5.0	5.3	5.7	5.9
ATF 1754	5.3	6.7	7.0	7.3	7.0	4.3	4.3	5.3	5.9
B23	6.0	5.7	6.3	6.3	6.3	5.3	5.3	6.0	5.9
F711	5.3	6.3	7.3	7.3	7.0	4.3	4.3	5.3	5.9
RHIZING MOON (IS-TF 305 SEL)	6.0	5.7	6.7	6.0	6.7	5.0	5.0	6.0	5.9
LEONARDO (LTP-FSD)	5.3	6.0	7.3	7.3	6.7	4.7	4.3	5.3	5.9
PPG-TF-135	5.7	5.7	7.0	7.0	6.7	4.7	4.7	5.7	5.9
PST-5BPO	6.0	6.3	6.7	6.3	6.0	5.0	5.0	6.0	5.9
REBEL V (ATF 1736)	5.3	6.7	7.0	7.0	6.3	4.7	4.3	5.3	5.8
EMBRACE (PST-5EV2)	5.3	6.0	7.0	6.7	6.3	4.7	4.7	5.3	5.8
FAITH	6.0	5.0	6.7	5.7	6.7	5.0	5.3	6.0	5.8
IS-TF 311	5.7	5.7	7.0	6.7	6.3	4.7	4.7	5.7	5.8
IS-TF-287	6.0	5.7	6.3	5.7	6.0	5.3	5.3	6.0	5.8
MERIDIAN (PST-5GRB)	6.0	5.3	6.0	5.7	6.3	5.3	5.3	6.0	5.8
PPG-TF-138	6.0	5.7	6.3	6.3	6.3	5.0	5.0	6.0	5.8
PST-5DZP	6.0	4.7	6.3	5.7	6.0	5.7	5.7	6.0	5.8
RAIN DANCE (PST-5SDT)	5.7	5.0	6.7	6.3	6.7	5.0	5.3	5.7	5.8
TEMPLE (DZ1)	5.7	5.3	7.0	6.3	6.3	5.0	4.7	5.7	5.8
THUNDERSTRUCK (TD1)	6.0	4.7	6.3	6.0	6.3	5.3	5.3	6.0	5.8
BAR FA 121089	5.7	5.0	6.3	6.7	6.0	5.0	5.0	5.7	5.7
GRANDE 3	5.3	5.0	7.3	7.0	6.7	4.3	4.3	5.3	5.7
HOT ROD (BURL TF-136)	5.3	5.7	6.7	6.7	6.3	4.7	4.7	5.3	5.7
UNITUS (IS-TF 289)	5.7	5.0	6.3	6.0	5.7	5.7	5.3	5.7	5.7
PST-5MVD	5.3	6.3	6.7	6.7	6.0	4.7	4.7	5.3	5.7
SWAGGER (PST-5RO5)	5.7	6.3	6.0	5.3	6.0	5.0	5.3	5.7	5.7
VERT (ATF 1612)	5.7	5.0	6.7	6.0	6.3	4.7	5.0	5.7	5.6
BULLSEYE	5.3	5.7	6.3	6.0	6.0	5.0	5.3	5.3	5.6
CAESAR (TY 10)	5.3	6.0	6.3	6.3	5.7	5.0	5.0	5.3	5.6
FALCON IV	5.7	5.0	6.7	6.0	6.0	5.0	5.0	5.7	5.6
FALCON V	5.3	5.7	6.3	5.7	6.7	4.7	5.0	5.3	5.6
TRENDING (IS-TF 269 SEL)	5.7	4.3	6.3	6.3	6.0	5.3	5.3	5.7	5.6
IS-TF 276 M2	5.7	5.3	6.3	6.0	6.3	4.7	4.7	5.7	5.6
NIGHTCRAWLER (IS-TF 285)	5.3	5.3	6.7	6.3	6.3	4.7	5.0	5.3	5.6
WICHITA (PPG-TF-151)	5.3	6.0	6.7	6.3	6.3	4.3	4.3	5.3	5.6
PSG-TT4	5.7	6.0	6.3	6.0	6.0	4.7	4.7	5.7	5.6
DIABLO (IS-TF 330)	5.7	5.0	6.0	6.0	6.0	4.7	4.7	5.7	5.5
FRONTLINE (EXP TF-09)	5.7	4.7	5.7	5.3	6.0	5.3	5.3	5.7	5.5
JS 818	5.7	5.0	5.3	5.7	5.7	5.7	5.7	5.7	5.5

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2015 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/								
	APR	MAY	JUN	JUL	SEP	OCT	NOV	DEC	MEAN
JS 819	6.0	5.0	5.7	5.3	6.0	5.0	5.0	6.0	5.5
KINGDOM (DB1)	5.3	4.7	6.3	6.3	6.3	4.7	4.7	5.3	5.5
MARAUDER	5.7	5.0	5.7	5.7	5.7	5.3	5.3	5.7	5.5
PSG-8BP2	5.7	4.3	6.3	6.0	6.0	5.0	5.0	5.7	5.5
PST-5EX2	5.3	5.7	6.0	6.0	6.3	4.7	5.0	5.3	5.5
RAD-TF-83	5.7	4.3	6.3	6.0	6.0	5.0	5.0	5.7	5.5
OLYMPUS (RAD-TF-88)	5.7	5.0	6.0	5.7	5.7	5.3	5.3	5.7	5.5
RAD-TF-89	5.7	5.7	6.3	5.7	6.0	4.7	4.7	5.7	5.5
TEMPTATION (OR-21)	5.7	5.3	5.7	5.0	5.7	5.3	5.3	5.7	5.5
FIRECRACKER SLS (PPG-TF-105)	5.0	5.7	7.0	6.7	6.0	4.0	4.0	5.0	5.4
INSPIRATION (PST-R5NW)	5.3	5.0	6.3	5.7	6.0	4.7	4.7	5.3	5.4
PSG-GSD	5.0	5.3	6.7	6.3	5.7	4.3	4.7	5.0	5.4
BAR FA 120878	5.0	5.3	6.3	6.3	5.3	4.7	4.7	5.0	5.3
BAR FA 121091	5.3	4.7	6.0	5.7	5.3	5.0	4.7	5.3	5.3
RAD-TF-92	5.0	4.7	6.7	6.3	6.3	4.0	4.3	5.0	5.3
WARHAWK	5.3	4.3	6.3	5.3	6.0	4.7	4.7	5.3	5.3
BAR FA 121095	5.3	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2
MEMPHIS (GO-DFR)	5.3	4.3	5.7	5.3	5.3	5.0	5.0	5.3	5.2
204 RES. BLK4	5.7	4.3	5.0	4.7	5.7	4.7	4.7	5.7	5.0
ANNIHILATOR	5.3	4.0	5.3	4.7	5.7	5.0	5.0	5.3	5.0
COMP. RES. SST	5.3	4.0	5.0	4.3	5.0	5.3	5.3	5.3	5.0
IS-TF 272	5.0	4.3	5.7	5.3	5.3	4.7	4.7	5.0	5.0
JS 809	5.0	5.0	5.7	5.3	5.0	4.7	4.7	5.0	5.0
JS 825	5.0	4.7	6.0	5.3	5.3	4.3	4.3	5.0	5.0
K12-05	4.7	4.7	6.7	6.0	6.0	3.7	3.7	4.7	5.0
KY-31	4.7	5.0	5.7	6.0	5.7	3.7	3.7	4.7	4.9
K12-13	4.7	4.0	4.7	4.3	4.3	4.3	4.0	4.7	4.4
LSD VALUE	1.4	1.5	1.4	1.9	.	1.8	1.5	1.4	1.0
C.V. (%)	11.6	14.2	11.5	14.5	.	15.4	14.5	11.6	9.2

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 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2015 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	INITIAL COVER IN MAY		BEFORE TRAFFIC AUGUST 31		MIDDLE SEASON TRAFFIC IN OCTOBER		END TRAFFIC IN EARLY NOVEMBER		2-WEEKS AFTER TRAFFIC IN MIDDLE NOVEMBER	
	% GREEN	% STRAW	% GREEN	% STRAW	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE
MET-3	85.0	15.0	99.0	0.0	80.0	20.0	61.7	26.7	56.7	40.0
4TH MILLENNIUM SRP (U43)	85.0	15.0	99.0	0.0	81.7	18.3	63.3	31.7	53.3	36.7
CATALYST	80.0	20.0	99.0	0.0	69.7	30.0	50.0	36.7	36.7	33.3
RAPTOR III (ZW 44)	86.7	13.3	99.0	0.0	93.0	6.7	76.7	6.7	70.0	13.3
TRAVERSE 2 SRP (W45)	76.7	23.3	94.3	5.0	65.0	35.0	55.0	35.0	45.0	33.3
DYNAMITE LS (PPG-TF-145)	85.0	15.0	99.0	0.0	81.7	18.3	61.7	25.0	51.7	33.3
MET 1	86.7	13.3	99.0	0.0	78.3	21.7	55.0	28.3	43.3	26.7
REFLECTION (U45)	73.3	26.7	91.0	8.3	61.7	38.3	46.7	38.3	38.3	31.7
FAYETTE (IS-TF 291)	85.0	15.0	99.0	0.0	75.0	25.0	60.0	31.7	48.3	38.3
FIREWALL (PSG-WE1)	80.0	20.0	99.0	0.0	71.7	28.3	55.0	35.0	40.0	23.3
BLOODHOUND (MET 6 SEL)	81.7	18.3	99.0	0.0	76.7	23.3	60.0	36.7	51.7	26.7
PSG-PO1	81.7	18.3	99.0	0.0	75.0	25.0	53.3	38.3	45.0	31.7
XTENDER (PPG-TF-139)	80.0	20.0	94.3	5.0	68.3	31.7	48.3	38.3	40.0	33.3
ROWDY (SRX-TPC)	78.3	21.7	99.0	0.0	76.7	23.3	55.0	30.0	50.0	33.3
TITANIUM 2LS (PPG-TF-152)	81.7	18.3	99.0	0.0	58.3	41.7	45.0	48.3	33.3	41.7
W41	85.0	15.0	99.0	0.0	68.3	31.7	46.7	45.0	35.0	35.0
ATF 1704	83.3	16.7	99.0	0.0	71.7	28.3	53.3	35.0	43.3	23.3
GTO (BURL TF-2)	78.3	21.7	87.7	11.7	66.7	33.3	55.0	33.3	48.3	35.0
HOVER (BURL TF-69)	83.3	16.7	99.0	0.0	78.3	21.7	56.7	28.3	43.3	23.3
STANDOUT (IS-TF 308 SEL)	86.7	13.3	97.7	1.7	80.0	20.0	63.3	26.7	55.0	31.7
SUPERSONIC (PPG-TF-170)	78.3	21.7	99.0	0.0	66.7	33.3	53.3	40.0	41.7	30.0
ROCKWELL (LTP-TWUU)	90.0	10.0	99.0	0.0	80.0	20.0	61.7	33.3	53.3	30.0
TRINITY (BIZEM)	81.7	18.3	99.0	0.0	83.3	16.7	63.3	23.3	56.7	21.7
FESNOVA	78.3	21.7	97.7	1.7	63.3	36.7	40.0	50.0	26.7	46.7
K12-MCD	85.0	15.0	99.0	0.0	80.0	20.0	53.3	26.7	41.7	21.7
MICHELANGELO (LTP-F5DPDR)	83.3	16.7	97.7	1.7	75.0	25.0	53.3	31.7	41.7	26.7
TURFWAY (IS-TF 282 M2)	76.7	23.3	94.3	5.0	68.3	31.7	51.7	45.0	45.0	43.3
ARES (PPG-TF-142)	78.3	21.7	96.0	3.3	70.0	30.0	56.7	30.0	50.0	30.0
BLACK TAIL (PPG-TF-150)	80.0	20.0	96.0	3.3	76.7	23.3	55.0	30.0	48.3	26.7
HOUNDOG8 (IS-TF 307 SEL)	70.0	30.0	96.0	3.3	51.7	48.3	31.7	61.7	21.7	45.0
PPG-TF-169	81.7	18.3	99.0	0.0	81.7	18.3	61.7	25.0	56.7	21.7
VALKYRIE LS (PPG-TF-172)	80.0	20.0	99.0	0.0	71.7	28.3	58.3	28.3	46.7	33.3
REGENERATE	78.3	21.7	94.3	5.0	63.3	36.7	43.3	50.0	26.7	45.0
SALTILLO (PST-5SALT)	78.3	21.7	99.0	0.0	70.0	30.0	58.3	30.0	48.3	23.3
TECHNIQUE (RZ2)	85.0	15.0	99.0	0.0	78.0	21.7	56.7	35.0	50.0	40.0
TERRANO	73.3	26.7	91.3	8.3	65.0	35.0	51.7	41.7	41.7	43.3
THOR (PPG-TF-157)	68.3	31.7	94.3	5.0	71.7	28.3	56.7	35.0	45.0	41.7
AVENGER II (PPG-TF-156)	80.0	20.0	99.0	0.0	81.7	18.3	61.7	18.3	51.7	30.0
AMITY (CCR2)	80.0	20.0	99.0	0.0	75.0	25.0	56.7	31.7	46.7	25.0
FIREBIRD 2	81.7	18.3	99.0	0.0	68.3	31.7	55.0	38.3	46.7	38.3
FOXHOUND (IS-TF 284 M2)	73.3	26.7	92.7	6.7	70.0	30.0	55.0	30.0	43.3	30.0
HEMI	80.0	20.0	97.7	1.7	60.0	40.0	38.3	53.3	30.0	50.0
CROSSFIRE 4 (IS-TF 310 SEL)	68.3	31.7	89.3	10.0	53.3	46.7	38.3	46.7	23.3	31.7
JS 916	75.0	25.0	99.0	0.0	73.3	26.7	58.3	26.7	50.0	16.7
MAESTRO (T31)	76.7	23.3	99.0	0.0	68.3	31.7	50.0	38.3	45.0	35.0

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2015 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	INITIAL COVER IN MAY		BEFORE TRAFFIC AUGUST 31		MIDDLE SEASON TRAFFIC IN OCTOBER		END TRAFFIC IN EARLY NOVEMBER		2-WEEKS AFTER TRAFFIC IN MIDDLE NOVEMBER	
	% GREEN	% STRAW	% GREEN	% STRAW	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE
REBOUNDER (PICK-W43)	80.0	20.0	99.0	0.0	71.7	28.3	51.7	41.7	45.0	36.7
PPG-TF-115	81.7	18.3	99.0	0.0	78.3	21.7	55.0	28.3	45.0	26.7
PARAMOUNT (PPG-TF-137)	85.0	15.0	99.0	0.0	75.0	25.0	55.0	38.3	43.3	30.0
PST-5BRK	78.3	21.7	96.0	3.3	70.0	30.0	56.7	30.0	45.0	26.7
RHAMBLER 2 SRP (LSD)	78.3	21.7	99.0	0.0	85.0	15.0	65.0	21.7	60.0	30.0
SCREAMER LS (PPG-TF-148)	83.3	16.7	99.0	0.0	71.7	28.3	51.7	41.7	45.0	36.7
AQUADUCT	88.3	11.7	99.0	0.0	78.3	21.7	61.7	21.7	53.3	26.7
ATF 1754	86.7	13.3	99.0	0.0	78.0	21.7	55.0	35.0	45.0	33.3
B23	85.0	15.0	99.0	0.0	89.7	10.0	71.7	10.0	66.7	20.0
F711	80.0	20.0	99.0	0.0	65.0	35.0	50.0	41.7	36.7	36.7
RHIZING MOON (IS-TF 305 SEL)	81.7	18.3	99.0	0.0	78.3	21.7	60.0	21.7	53.3	21.7
LEONARDO (LTP-FSD)	73.3	26.7	92.7	6.7	71.7	28.3	53.3	28.3	40.0	18.3
PPG-TF-135	81.7	18.3	99.0	0.0	70.0	30.0	50.0	50.0	43.3	41.7
PST-5BPO	73.3	26.7	92.7	6.7	61.7	38.3	45.0	45.0	38.3	43.3
REBEL V (ATF 1736)	73.3	26.7	96.0	3.3	70.0	30.0	50.0	43.3	45.0	30.0
EMBRACE (PST-5EV2)	83.3	16.7	99.0	0.0	73.3	26.7	53.3	40.0	46.7	46.7
FAITH	83.3	16.7	99.0	0.0	68.3	31.7	55.0	38.3	45.0	30.0
IS-TF 311	85.0	15.0	99.0	0.0	66.7	33.3	48.3	46.7	35.0	40.0
IS-TF-287	86.7	13.3	99.0	0.0	78.3	21.7	56.7	35.0	45.0	30.0
MERIDIAN (PST-5GRB)	81.7	18.3	99.0	0.0	65.0	35.0	41.7	48.3	31.7	41.7
PPG-TF-138	83.3	16.7	99.0	0.0	81.7	18.3	70.0	18.3	58.3	23.3
PST-5DZP	81.7	18.3	99.0	0.0	66.7	33.3	48.3	46.7	38.3	38.3
RAIN DANCE (PST-5SDT)	76.7	23.3	94.3	5.0	53.3	46.7	40.0	46.7	28.3	31.7
TEMPLE (DZ1)	85.0	15.0	99.0	0.0	86.7	13.3	70.0	26.7	63.3	20.0
THUNDERSTRUCK (TD1)	80.0	20.0	92.7	6.7	70.0	30.0	56.7	30.0	45.0	30.0
BAR FA 121089	73.3	26.7	87.7	11.7	61.7	38.3	41.7	45.0	33.3	50.0
GRANDE 3	78.3	21.7	99.0	0.0	71.7	28.3	53.3	35.0	41.7	25.0
HOT ROD (BURL TF-136)	73.3	26.7	99.0	0.0	61.7	38.3	45.0	45.0	31.7	28.3
UNITUS (IS-TF 289)	78.3	21.7	96.0	3.3	71.7	28.3	53.3	35.0	41.7	43.3
PST-5MVD	81.7	18.3	96.0	3.3	81.7	18.3	63.3	25.0	53.3	26.7
SWAGGER (PST-5RO5)	78.3	21.7	97.7	1.7	76.7	23.3	53.3	30.0	45.0	18.3
VERT (ATF 1612)	83.3	16.7	99.0	0.0	75.0	25.0	51.7	45.0	45.0	41.7
BULLSEYE	80.0	20.0	99.0	0.0	70.0	30.0	56.7	30.0	48.3	31.7
CAESAR (TY 10)	76.7	23.3	99.0	0.0	63.3	36.7	45.0	36.7	30.0	35.0
FALCON IV	80.0	20.0	99.0	0.0	65.0	35.0	45.0	41.7	31.7	36.7
FALCON V	76.7	23.3	99.0	0.0	70.0	30.0	48.3	36.7	33.3	20.0
TRENDING (IS-TF 269 SEL)	81.7	18.3	99.0	0.0	75.0	25.0	61.7	25.0	58.3	15.0
IS-TF 276 M2	78.3	21.7	99.0	0.0	91.7	8.3	61.7	15.0	46.7	21.7
NIGHTCRAWLER (IS-TF 285)	71.7	28.3	99.0	0.0	68.3	31.7	56.7	31.7	48.3	26.7
WICHITA (PPG-TF-151)	88.3	11.7	99.0	0.0	86.7	13.3	68.3	20.0	60.0	26.7
PSG-TT4	80.0	20.0	99.0	0.0	75.0	25.0	61.7	31.7	51.7	23.3
DIABLO (IS-TF 330)	81.7	18.3	99.0	0.0	81.7	18.3	63.3	25.0	51.7	13.3
FRONTLINE (EXP TF-09)	73.3	26.7	92.7	6.7	66.7	33.3	45.0	40.0	33.3	21.7
JS 818	75.0	25.0	99.0	0.0	76.7	23.3	56.7	36.7	48.3	28.3
JS 819	68.3	31.7	86.3	13.3	63.3	36.7	48.3	43.3	38.3	40.0

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2015 DATA

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

NAME	INITIAL COVER IN MAY		BEFORE TRAFFIC AUGUST 31		MIDDLE SEASON TRAFFIC IN OCTOBER		END TRAFFIC IN EARLY NOVEMBER		2-WEEKS AFTER TRAFFIC IN MIDDLE NOVEMBER	
	% GREEN	% STRAW	% GREEN	% STRAW	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE
KINGDOM (DB1)	68.3	31.7	97.7	1.7	65.0	35.0	50.0	41.7	43.3	36.7
MARAUDER	71.7	28.3	99.0	0.0	65.0	35.0	46.7	41.7	31.7	18.3
PSG-8BP2	78.3	21.7	99.0	0.0	73.3	26.7	56.7	26.7	48.3	30.0
PST-5EX2	85.0	15.0	99.0	0.0	76.7	23.3	56.7	23.3	45.0	23.3
RAD-TF-83	78.3	21.7	92.7	6.7	76.7	23.3	58.3	23.3	51.7	28.3
OLYMPUS (RAD-TF-88)	78.3	21.7	99.0	0.0	70.0	30.0	55.0	36.7	41.7	28.3
RAD-TF-89	81.7	18.3	99.0	0.0	70.0	30.0	46.7	36.7	35.0	28.3
TEMPTATION (OR-21)	68.3	31.7	81.3	18.3	66.7	33.3	50.0	40.0	40.0	41.7
FIRECRACKER SLS (PPG-TF-105)	81.7	18.3	99.0	0.0	81.7	18.3	60.0	25.0	50.0	28.3
INSPIRATION (PST-R5NW)	80.0	20.0	99.0	0.0	70.0	30.0	51.7	36.7	40.0	20.0
PSG-GSD	80.0	20.0	99.0	0.0	75.0	25.0	58.3	31.7	45.0	35.0
BAR FA 120878	71.7	28.3	89.3	10.0	66.7	33.3	48.3	40.0	35.0	40.0
BAR FA 121091	71.7	28.3	99.0	0.0	60.0	40.0	41.7	46.7	33.3	31.7
RAD-TF-92	71.7	28.3	92.7	6.7	55.0	45.0	45.0	45.0	31.7	43.3
WARHAWK	75.0	25.0	99.0	0.0	63.3	36.7	45.0	50.0	35.0	36.7
BAR FA 121095	80.0	20.0	99.0	0.0	80.0	20.0	61.7	20.0	48.3	10.0
MEMPHIS (GO-DFR)	76.7	23.3	99.0	0.0	68.3	31.7	50.0	45.0	38.3	41.7
204 RES. BLK4	71.7	28.3	97.7	1.7	66.7	33.3	51.7	40.0	40.0	16.7
ANNIHILATOR	76.7	23.3	96.0	3.3	71.7	28.3	50.0	48.3	43.3	45.0
COMP. RES. SST	81.7	18.3	97.7	1.7	76.7	23.3	60.0	30.0	51.7	28.3
IS-TF 272	75.0	25.0	99.0	0.0	78.3	21.7	55.0	35.0	48.3	21.7
JS 809	81.7	18.3	97.7	1.7	73.3	26.7	60.0	26.7	50.0	31.7
JS 825	78.3	21.7	99.0	0.0	71.7	28.3	48.3	41.7	40.0	23.3
K12-05	76.7	23.3	99.0	0.0	81.7	18.3	61.7	18.3	50.0	13.3
KY-31	73.3	26.7	83.0	16.7	58.3	41.7	41.7	48.3	31.7	40.0
K12-13	76.7	23.3	99.0	0.0	60.0	40.0	50.0	40.0	45.0	28.3
LSD VALUE	26.1	26.1	26.3	27.4	65.1	65.1	65.2	76.6	72.6	93.1
C.V. (%)	9.7	36.9	6.2	320.8	19.5	50.2	25.0	48.1	35.2	54.0

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 14.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2013-14 DATA

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

NAME	SPRING GREENUP	SEEDLING VIGOR	PERCENT GROUND COVER			QUALITY RATINGS									MEAN
			SPRING	SUMMER	FALL	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
ROWDY (SRX-TPC)	5.0	6.7	77.7	80.9	80.2	4.3	6.7	6.7	7.3	7.5	7.9	7.5	7.3	6.8	7.1
VALKYRIE LS (PPG-TF-172)	4.7	6.7	81.0	71.7	75.7	4.1	5.8	5.7	6.7	6.7	6.8	7.1	6.9	6.2	6.4
SCREAMER LS (PPG-TF-148)	4.0	6.3	88.0	69.3	76.3	4.0	6.0	6.0	6.4	6.9	6.7	7.0	6.5	6.2	6.3
4TH MILLENNIUM SRP (U43)	3.3	5.7	63.0	73.7	71.2	3.7	5.7	5.7	6.3	6.6	6.7	6.7	6.7	6.6	6.2
FIRECRACKER SLS (PPG-TF-105)	4.0	8.0	78.7	72.9	70.3	4.6	6.1	6.4	6.3	6.2	6.5	6.5	6.4	6.3	6.2
MERIDIAN (PST-SGRB)	4.0	7.0	84.0	66.9	72.7	3.8	5.6	6.2	6.8	6.7	6.6	6.6	6.3	5.7	6.2
TITANIUM 2LS (PPG-TF-152)	5.0	6.7	62.7	63.8	63.5	4.1	5.5	6.1	6.7	6.5	6.4	6.7	6.5	5.8	6.2
TRAVERSE 2 SRP (W45)	5.7	7.3	85.3	70.3	74.8	4.2	6.1	6.8	6.9	6.4	6.2	6.5	6.4	5.5	6.2
TRINITY (BIZEM)	4.3	5.7	75.3	70.4	56.7	4.1	5.8	6.1	6.3	6.9	6.6	6.8	6.5	5.4	6.2
GTO (BURL TF-2)	4.0	7.7	67.7	61.6	67.7	4.3	5.7	6.3	6.4	5.8	5.9	6.8	6.2	5.8	6.0
MAESTRO (T31)	3.0	7.7	72.3	67.8	66.7	4.2	5.6	5.7	5.9	5.9	5.7	6.3	6.1	5.7	5.8
MET-3	3.3	7.0	65.3	64.2	63.8	3.3	5.5	5.7	5.9	6.1	6.2	6.1	6.5	5.9	5.8
MET 1	5.3	7.3	57.7	56.1	63.0	3.8	5.7	6.1	6.3	5.7	5.9	5.9	5.9	5.1	5.7
PST-5BRK	4.3	7.0	79.7	57.6	69.8	4.0	5.5	6.1	6.6	6.0	5.7	5.7	5.5	5.0	5.7
REBOUNDER (PICK-W43)	3.7	7.3	59.0	62.0	59.2	3.9	5.9	5.8	5.9	5.5	5.6	6.1	6.2	5.7	5.7
SUPERSONIC (PPG-TF-170)	3.7	7.3	59.3	62.1	57.7	4.0	5.5	5.6	6.4	6.1	5.9	5.9	5.9	5.0	5.7
ATF 1704	3.0	7.0	66.7	58.6	70.7	4.0	5.5	5.7	5.9	5.7	5.8	5.5	5.7	5.3	5.6
B23	3.7	7.3	49.7	67.6	68.3	3.4	5.1	5.7	5.9	5.9	6.1	5.9	5.8	5.7	5.6
BAR FA 121089	4.3	7.0	68.7	60.5	73.3	3.9	5.9	5.5	5.9	5.8	5.7	5.7	5.8	5.4	5.6
MICHELANGELO (LTP-F5DPDR)	3.0	7.0	48.0	56.7	43.8	4.0	5.7	6.1	5.5	5.5	5.7	5.9	5.9	5.3	5.6
PST-5EX2	3.3	7.7	79.7	63.0	71.8	3.2	5.2	6.1	6.3	6.1	5.5	5.3	5.7	5.3	5.6
REBEL V (ATF 1736)	3.7	7.0	66.0	63.3	60.2	3.7	5.1	5.7	6.3	5.9	5.6	5.7	5.7	5.0	5.6
CROSSFIRE 4 (IS-TF 310 SEL)	3.0	6.7	47.3	58.0	55.5	4.0	5.3	5.7	5.7	5.9	5.7	5.7	5.6	5.1	5.5
GRANDE 3	4.3	8.0	51.3	54.8	48.2	4.1	5.2	5.9	5.8	5.5	5.7	5.7	5.6	5.3	5.5
HOUNDOG8 (IS-TF 307 SEL)	3.7	6.0	74.3	64.6	66.7	3.7	4.9	5.7	6.0	5.9	5.6	5.7	5.9	5.1	5.5
CATALYST	3.7	8.3	56.3	56.2	64.8	3.7	5.3	5.7	5.8	5.4	5.5	5.7	5.3	4.7	5.4
EMBRACE (PST-5EV2)	3.3	7.3	66.3	58.3	59.8	3.6	5.1	5.7	5.5	5.7	5.8	5.5	5.6	5.1	5.4
FAITH	3.3	6.3	43.3	61.3	51.5	3.3	4.9	5.1	5.4	5.5	5.7	6.0	6.0	5.4	5.4
HOVER (BURL TF-69)	3.0	6.7	35.7	61.7	47.2	3.7	5.0	4.8	5.4	5.3	5.9	5.9	5.9	5.8	5.4
SALTILLO (PST-5SALT)	3.7	6.7	54.7	63.4	61.0	3.2	4.8	5.2	5.8	6.0	5.9	5.9	5.8	5.1	5.4
TECHNIQUE (RZ2)	3.3	6.3	58.0	58.5	57.0	3.1	5.2	5.7	5.7	5.8	5.6	5.6	5.6	5.1	5.4
THUNDERSTRUCK (TD1)	2.7	7.7	59.0	62.3	56.3	3.8	4.7	5.2	6.0	5.6	5.7	5.9	5.7	5.2	5.4
VERT (ATF 1612)	3.0	5.0	64.0	51.4	63.7	4.1	5.4	5.5	5.3	5.5	5.6	5.5	5.9	5.4	5.4
XTENDER (PPG-TF-139)	4.0	7.0	57.0	61.1	47.2	3.7	5.7	5.5	5.7	5.5	5.6	5.5	5.6	5.1	5.4
BULLSEYE	4.0	6.3	57.0	59.5	42.3	3.3	5.2	5.6	5.8	5.7	4.9	5.5	5.3	5.2	5.3
HEMI	3.7	7.3	46.3	62.8	60.7	3.1	4.9	5.1	5.5	5.7	5.7	5.5	5.6	5.0	5.3
KINGDOM (DB1)	3.0	7.0	61.7	60.9	56.8	3.8	4.7	5.2	5.6	5.5	5.4	5.7	5.6	5.1	5.3
PSG-GSD	3.7	6.7	49.3	62.2	62.0	3.2	5.1	5.4	5.5	5.2	5.2	5.5	6.1	5.2	5.3
ROCKWELL (LTP-TWUU)	3.3	7.0	49.7	50.7	51.0	3.3	5.2	6.0	5.6	5.3	5.4	5.5	5.3	4.8	5.3
W41	3.0	7.7	47.7	52.3	44.8	3.9	5.4	6.0	5.9	5.2	5.2	5.3	5.0	5.6	5.3
AVENGER II (PPG-TF-156)	5.0	7.0	36.0	54.5	51.7	3.0	4.6	5.2	5.7	5.5	5.4	5.5	5.5	5.3	5.2
BAR FA 121095	2.7	7.7	50.0	51.1	50.2	3.8	4.9	5.7	5.7	5.1	5.1	5.4	5.3	5.0	5.2
CAESAR (TY 10)	3.3	7.7	45.3	55.7	61.7	3.8	5.3	5.5	5.3	5.5	5.4	5.0	5.3	4.5	5.2
FAYETTE (IS-TF 291)	4.0	6.7	65.3	55.2	60.8	3.0	4.9	5.5	5.7	5.5	5.4	5.4	5.4	4.8	5.2
FIREBIRD 2	3.7	6.3	60.7	60.7	49.7	3.1	4.8	5.4	5.6	5.5	5.1	5.5	5.4	4.8	5.2

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2013-14 DATA

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

NAME	SPRING GREENUP	SEEDLING VIGOR	PERCENT GROUND COVER			QUALITY RATINGS									MEAN
			SPRING	SUMMER	FALL	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
IS-TF 272	3.3	6.3	38.0	56.7	50.8	3.3	4.9	4.9	5.6	5.7	5.3	5.6	5.4	4.9	5.2
K12-MCD	4.0	5.0	71.0	56.8	54.0	4.0	5.3	5.3	5.3	5.4	5.4	5.5	5.1	4.8	5.2
LEONARDO (LTP-FSD)	3.0	7.0	49.3	57.7	54.5	3.4	4.9	5.1	5.5	5.4	5.6	5.4	5.4	4.9	5.2
PSG-TT4	3.3	6.3	80.7	67.0	61.3	3.2	4.5	5.1	5.5	5.5	5.1	5.7	5.6	5.6	5.2
REFLECTION (U45)	3.7	6.3	60.7	62.9	60.5	2.7	4.5	4.8	5.5	5.6	5.6	5.7	5.8	4.9	5.2
TEMPTATION (OR-21)	3.0	6.7	61.7	57.3	44.0	3.8	5.1	5.5	5.4	5.6	5.5	5.5	5.1	4.9	5.2
TRENDING (IS-TF 269 SEL)	4.0	6.0	46.0	55.5	50.7	3.6	4.8	5.5	5.7	5.6	5.1	5.6	5.5	5.0	5.2
WICHITA (PPG-TF-151)	2.7	6.7	53.0	57.1	58.2	3.0	5.0	5.4	5.6	5.6	5.5	5.5	5.5	4.4	5.2
F711	2.7	6.7	69.0	58.2	48.8	3.6	4.9	5.3	5.3	5.2	5.1	5.4	5.4	5.2	5.1
FALCON IV	4.7	5.7	38.3	51.5	51.0	4.0	5.2	5.5	5.4	5.6	5.1	4.9	5.1	4.6	5.1
FIREWALL (PSG-WE1)	4.0	7.0	58.3	57.4	60.0	2.9	5.1	5.5	5.3	5.6	5.6	5.1	5.3	4.0	5.1
JS 916	3.0	7.0	41.7	57.8	55.0	3.6	4.9	5.3	5.5	5.2	5.1	5.1	5.3	5.1	5.1
RAIN DANCE (PST-5SDT)	2.7	6.0	53.0	55.9	56.7	4.0	4.9	5.2	5.5	5.3	5.3	5.2	5.0	4.8	5.1
TERRANO	3.0	7.3	46.7	51.7	51.0	3.6	5.1	5.5	5.4	4.9	5.3	5.1	5.0	4.5	5.1
ANNIHILATOR	3.3	5.7	61.7	40.6	53.5	4.8	5.2	5.5	5.1	5.2	4.8	4.7	4.9	4.9	5.0
ATF 1754	3.0	7.7	55.7	59.2	49.7	3.2	5.1	5.2	5.3	5.4	5.1	5.3	4.9	4.5	5.0
BLOODHOUND (MET 6 SEL)	3.7	7.3	46.7	54.7	53.8	3.2	4.7	5.5	5.4	5.4	4.9	4.8	5.1	4.7	5.0
HOT ROD (BURL TF-136)	3.7	7.0	37.7	54.8	52.0	3.2	4.7	4.9	5.1	5.3	4.9	5.3	5.6	5.0	5.0
IS-TF-287	3.3	7.3	56.7	58.1	55.8	3.3	4.8	5.1	5.5	5.4	4.7	5.1	5.1	4.6	5.0
NIGHTCRAWLER (IS-TF 285)	4.3	5.7	52.0	59.0	57.3	2.9	4.6	4.7	5.5	5.5	4.9	5.2	5.6	5.0	5.0
PST-5MVD	3.3	6.7	56.3	49.3	52.2	3.7	4.7	5.1	5.6	5.5	5.2	5.1	4.9	4.8	5.0
RHAMBLER 2 SRP (LSD)	5.0	6.7	37.7	58.6	59.7	3.1	4.9	5.5	5.4	5.3	5.2	4.7	5.3	4.0	5.0
TEMPLE (DZ1)	3.7	6.0	38.7	52.9	50.8	3.2	4.7	5.1	5.3	5.1	5.1	5.5	5.4	4.7	5.0
THOR (PPG-TF-157)	3.3	6.0	39.3	58.9	48.7	3.1	4.5	4.7	5.3	5.2	5.2	5.6	5.6	4.8	5.0
DIABLO (IS-TF 330)	3.3	5.7	65.0	45.3	48.8	3.1	4.7	5.1	5.1	5.1	5.1	5.1	4.8	4.7	4.9
FESNOVA	4.7	6.0	57.7	51.8	59.8	3.3	5.2	5.5	5.3	5.1	4.9	4.9	4.7	3.9	4.9
FRONTLINE (EXP TF-09)	4.3	6.0	48.0	53.5	51.7	3.4	4.8	4.9	5.0	5.2	5.1	5.0	5.1	4.3	4.9
JS 819	4.0	6.3	35.0	52.0	40.8	3.9	4.8	4.9	4.9	5.0	5.3	5.4	5.1	4.4	4.9
PARAMOUNT (PPG-TF-137)	4.0	8.0	46.3	48.3	50.3	3.1	4.8	5.3	5.5	4.9	4.9	4.8	4.9	4.8	4.9
PST-5BP0	3.3	6.3	75.0	56.3	61.0	3.6	5.3	5.5	5.1	5.0	4.9	4.8	4.6	3.9	4.9
PST-5DZP	4.0	6.7	19.0	58.4	40.7	3.4	4.6	5.0	4.8	4.8	4.9	5.4	5.3	5.0	4.9
RAD-TF-83	2.7	7.0	46.3	61.9	58.8	2.7	4.5	4.7	5.0	5.1	5.0	5.5	5.7	5.0	4.9
STANDOUT (IS-TF 308 SEL)	3.0	5.3	40.7	54.6	40.3	2.8	4.6	4.6	5.1	5.2	5.3	5.4	5.0	5.3	4.9
FOXHOUND (IS-TF 284 M2)	3.0	4.0	60.0	58.8	55.2	3.7	4.1	4.9	5.1	5.2	4.9	5.1	5.3	4.8	4.8
JS 809	4.0	7.0	64.0	41.4	42.5	3.7	4.7	5.3	5.2	4.8	4.9	4.7	4.8	4.4	4.8
PPG-TF-115	3.3	7.7	53.0	52.4	59.2	3.1	5.1	5.1	5.3	5.3	5.0	4.6	4.3	3.9	4.8
MEMPHIS (GO-DFR)	2.7	6.0	35.7	45.0	36.7	3.6	4.3	4.9	5.3	4.9	4.5	4.9	4.6	4.6	4.7
OLYMPUS (RAD-TF-88)	2.0	6.0	28.7	43.5	38.5	3.8	4.3	4.5	4.6	4.9	4.9	5.1	4.7	4.9	4.7
REGENERATE	2.7	7.3	58.3	58.5	57.0	3.2	4.6	5.1	5.0	4.8	5.0	4.6	4.8	4.6	4.7
TURFWAY (IS-TF 282 M2)	2.7	5.3	52.3	46.3	48.5	3.1	4.7	4.8	5.1	4.8	4.7	4.9	4.7	4.3	4.7
BLACK TAIL (PPG-TF-150)	3.3	7.0	60.3	48.3	57.7	3.0	4.7	5.1	4.9	4.8	4.5	4.6	4.5	4.0	4.6
FALCON V	3.7	7.0	53.3	51.0	42.5	3.7	4.7	4.9	4.9	4.7	4.6	4.7	4.5	3.9	4.6
PPG-TF-138	3.3	6.3	53.0	51.0	59.8	3.0	4.6	4.9	5.2	4.9	4.9	4.4	4.5	3.8	4.6
PPG-TF-169	2.3	8.0	55.0	47.6	55.3	3.4	4.4	5.1	4.8	4.8	4.6	4.7	4.5	4.2	4.6
RHIZING MOON (IS-TF 305 SEL)	4.0	6.7	45.0	43.8	50.0	3.3	4.9	5.3	5.0	4.7	4.4	4.0	4.4	3.9	4.6

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2013-14 DATA

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

NAME	SPRING GREENUP	SEEDLING VIGOR	PERCENT GROUND COVER			QUALITY RATINGS							MEAN		
			SPRING	SUMMER	FALL	MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT	NOV
K12-05	2.0	6.0	23.7	48.6	36.0	3.0	4.1	4.3	4.8	4.5	4.7	4.8	4.9	4.8	4.5
PSG-PO1	3.0	7.3	52.0	46.3	57.0	2.9	4.5	4.7	4.7	4.6	4.4	4.5	4.9	4.2	4.5
AMITY (CCR2)	2.7	7.3	52.3	42.3	47.0	2.8	4.3	4.3	5.0	4.4	4.4	4.8	4.3	4.9	4.4
BAR FA 121091	2.3	7.0	38.0	39.0	38.3	3.3	4.3	4.6	5.0	4.6	3.8	4.8	4.5	4.7	4.4
JS 818	2.0	8.0	42.0	43.8	40.3	3.6	4.2	4.8	5.1	4.8	4.8	4.3	4.0	3.8	4.4
KY-31	4.0	7.7	36.0	44.9	45.8	2.9	4.7	4.7	4.4	4.9	4.6	4.8	4.2	3.5	4.4
RAPTOR III (ZW 44)	4.0	7.3	31.3	47.8	57.0	3.3	4.9	4.7	4.5	4.3	4.1	4.3	4.5	3.8	4.4
INSPIRATION (PST-R5NW)	3.0	7.3	31.0	45.6	47.2	2.7	4.1	4.8	4.6	4.5	4.5	4.3	4.1	3.4	4.3
JS 825	2.3	8.0	34.7	33.2	38.0	3.6	4.6	4.7	4.9	4.3	4.2	3.9	3.9	3.8	4.3
RAD-TF-92	3.0	7.3	42.0	43.0	49.2	2.9	4.7	5.0	4.7	4.5	3.9	4.2	4.0	3.3	4.3
WARHAWK	4.0	6.0	61.0	48.0	51.7	3.3	4.5	4.9	4.5	4.7	4.2	4.1	4.3	3.4	4.3
IS-TF 276 M2	5.0	6.7	48.0	46.5	55.2	3.0	4.6	4.8	4.3	4.4	4.3	3.9	3.9	3.0	4.2
PSG-8BP2	3.3	7.0	49.3	39.3	41.7	2.8	4.2	4.8	4.9	4.7	4.1	4.1	3.6	3.3	4.2
RAD-TF-89	4.0	6.3	55.3	45.5	40.7	2.7	4.2	4.6	4.9	4.6	4.1	4.1	3.9	3.6	4.2
AQUADUCT	4.0	5.0	42.7	42.0	42.5	2.6	4.3	5.0	4.4	4.5	4.3	3.7	3.9	3.6	4.1
DYNAMITE LS (PPG-TF-145)	1.7	6.7	39.0	41.7	39.2	2.6	3.9	3.9	4.4	4.5	4.6	4.4	4.3	3.3	4.1
BAR FA 120878	2.3	6.7	9.7	41.3	37.8	2.2	4.2	4.3	4.5	4.5	4.1	4.1	3.9	3.3	4.0
COMP. RES. SST	2.0	6.3	22.3	24.9	25.5	3.3	3.9	4.5	4.1	4.2	3.9	4.1	3.7	3.9	4.0
K12-13	2.3	6.3	39.7	31.8	34.2	2.7	3.9	4.1	4.5	4.7	4.1	4.3	3.7	3.2	4.0
MARAUDER	2.0	6.3	31.7	30.9	36.7	2.8	3.7	4.0	4.1	4.3	4.5	4.2	4.1	4.3	4.0
PPG-TF-135	2.3	5.3	23.7	49.3	37.0	2.2	3.8	4.1	4.2	4.4	4.1	4.0	4.1	4.0	4.0
UNITUS (IS-TF 289)	3.0	6.3	37.7	43.4	38.5	2.3	3.9	4.1	4.3	4.3	4.2	4.0	3.9	3.8	4.0
SWAGGER (PST-5R05)	1.7	7.7	8.3	35.9	24.2	2.6	3.7	4.1	4.3	4.1	3.9	3.7	3.9	3.8	3.9
IS-TF 311	4.0	6.7	37.0	37.6	40.3	2.6	3.7	4.3	4.3	4.1	3.7	3.3	3.1	2.7	3.7
ARES (PPG-TF-142)	1.7	5.7	29.7	36.1	25.0	2.6	3.2	3.5	4.0	3.9	3.8	3.2	2.7	3.1	3.4
204 RES. BLK4	2.7	7.0	20.7	29.3	18.3	2.6	3.0	3.0	3.1	3.4	2.8	3.2	2.9	2.9	3.0
LSD VALUE	1.8	2.6	79.9	33.8	47.8	1.2	1.2	1.5	1.3	1.5	1.3	1.3	1.2	1.5	1.0
C.V. (%)	27.0	15.9	47.7	52.1	45.9	31.3	30.8	32.2	30.5	32.9	33.5	33.1	33.1	36.1	26.6

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 15.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN TO EVALUATE BROWN PATCH AT WICHITA, KS 1/
2013-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	BROWN	FALL	FALL	PERCENT ESTABLISH- MENT	QUALITY RATINGS								MEAN
				PATCH WARM TEMP.	COLOR NOV	COLOR DEC		MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
REBOUNDER (PICK-W43)	6.4	5.8	7.2	6.1	5.3	5.7	75.0	5.7	6.3	6.3	6.4	5.7	5.5	5.5	6.3	6.0
STANDOUT (IS-TF 308 SEL)	6.3	5.2	6.7	6.2	5.3	5.3	60.0	5.7	5.9	6.4	6.2	5.9	5.9	5.9	5.8	6.0
BLACK TAIL (PPG-TF-150)	5.7	5.3	7.2	6.3	5.2	4.3	66.7	5.7	6.1	6.3	6.1	5.6	5.5	5.6	5.8	5.9
MET 1	6.1	5.8	6.8	5.9	6.0	5.0	75.0	5.7	6.1	6.1	5.9	5.4	5.5	5.7	6.1	5.9
MICHELANGELO (LTP-F5DPDR)	5.8	5.3	6.2	6.1	5.2	5.7	70.0	5.3	5.9	6.6	6.0	5.7	5.7	5.4	6.0	5.9
PARAMOUNT (PPG-TF-137)	6.1	5.1	6.7	6.5	5.3	5.3	65.0	5.7	5.6	6.5	6.0	5.9	5.7	5.2	5.9	5.9
PPG-TF-135	6.4	5.3	6.3	6.9	5.3	5.3	71.7	5.3	5.5	6.1	6.0	6.0	6.1	5.8	6.1	5.9
TEMPLE (DZ1)	6.2	4.9	6.5	6.0	5.5	6.0	66.7	5.3	5.7	6.1	5.9	5.7	5.9	5.7	6.2	5.9
TRAVERSE 2 SRP (W45)	6.4	5.3	7.0	6.1	4.8	5.3	71.7	5.3	5.9	6.5	6.1	6.0	5.6	5.3	6.1	5.9
VALKYRIE LS (PPG-TF-172)	6.1	5.4	6.7	5.9	5.3	5.0	71.7	5.3	5.9	6.5	6.1	5.5	5.4	5.5	6.2	5.9
4TH MILLENNIUM SRP (U43)	6.2	5.2	6.7	6.1	5.0	4.7	73.3	5.3	5.7	6.3	5.9	6.0	5.4	5.4	5.9	5.8
AVENGER II (PPG-TF-156)	6.2	5.6	6.5	6.2	5.0	5.3	66.7	5.7	5.8	6.1	5.7	6.0	5.9	5.5	5.6	5.8
BLOODHOUND (MET 6 SEL)	5.1	5.5	6.8	5.9	5.5	4.3	70.0	5.3	5.9	6.4	5.6	5.5	5.2	5.5	6.3	5.8
F711	5.8	5.5	6.3	6.3	5.3	5.3	76.7	5.3	6.1	6.6	6.1	5.7	5.5	5.1	5.8	5.8
GTO (BURL TF-2)	5.9	5.4	6.5	6.1	5.3	4.7	73.3	5.3	6.2	6.4	5.8	5.6	5.7	5.5	5.4	5.8
LEONARDO (LTP-FSD)	5.8	5.0	5.8	6.3	5.3	5.0	73.3	5.0	5.9	6.2	5.9	5.9	5.5	5.2	5.8	5.8
MAESTRO (T31)	6.0	5.8	6.3	6.2	5.5	5.0	63.3	5.3	6.1	6.2	5.9	5.9	4.9	5.4	6.3	5.8
REFLECTION (U45)	6.2	5.4	6.5	6.2	5.8	5.3	61.7	5.0	6.1	6.3	6.0	5.6	5.5	5.6	5.7	5.8
REGENERATE	6.3	5.5	6.7	6.1	5.7	5.7	75.0	6.0	6.1	6.1	5.7	5.3	5.7	5.5	5.8	5.8
ROCKWELL (LTP-TWUU)	6.2	5.5	6.3	6.3	5.5	5.0	71.7	5.3	6.0	6.5	6.1	5.5	5.4	5.1	6.2	5.8
TECHNIQUE (RZ2)	5.7	5.1	7.0	6.1	5.3	4.7	66.7	5.3	5.8	6.3	6.3	5.7	5.4	5.6	5.5	5.8
THOR (PPG-TF-157)	6.8	5.5	6.3	5.7	5.8	5.7	61.7	5.7	5.9	6.2	6.1	5.5	5.9	5.4	5.7	5.8
TITANIUM 2LS (PPG-TF-152)	6.3	5.0	6.3	5.9	5.0	5.3	63.3	5.7	6.1	6.5	6.3	5.7	5.0	5.2	5.7	5.8
VERT (ATF 1612)	6.0	5.1	7.0	6.0	4.7	5.7	70.0	5.7	6.0	6.1	5.9	5.7	5.4	5.3	5.8	5.8
FALCON V	5.9	5.3	6.0	5.8	5.7	5.7	73.3	5.3	5.9	6.1	5.9	5.7	5.7	5.3	5.4	5.7
FIREBIRD 2	6.4	5.2	6.0	5.8	5.2	4.3	63.3	5.3	5.7	6.5	5.9	5.2	5.6	5.7	5.0	5.7
FIRECRACKER SLS (PPG-TF-105)	6.6	5.2	5.8	6.1	5.0	5.0	68.3	5.3	5.6	6.5	5.9	5.9	4.8	5.1	5.7	5.7
GRANDE 3	5.9	5.3	6.5	6.3	5.8	5.3	71.7	5.0	5.7	6.1	5.8	5.7	5.7	5.5	5.4	5.7
HOT ROD (BURL TF-136)	6.0	5.2	7.3	6.3	5.5	4.7	68.3	5.7	5.8	6.0	5.9	5.6	5.2	5.3	6.2	5.7
HOUNDOG8 (IS-TF 307 SEL)	6.6	5.0	6.7	5.6	5.0	4.7	61.7	5.0	5.9	6.3	5.9	5.7	4.9	5.2	5.5	5.7
JS 916	6.2	5.3	6.2	5.8	5.2	5.0	56.7	5.3	5.8	5.9	5.7	5.6	5.5	5.4	5.6	5.7
KINGDOM (DB1)	7.0	4.7	6.0	5.6	5.3	5.3	68.3	4.7	5.9	6.6	5.9	5.3	5.1	5.3	5.7	5.7
MET-3	5.8	5.3	6.3	5.8	5.2	4.7	68.3	5.0	5.9	6.1	5.7	5.5	5.6	5.3	5.7	5.7
PPG-TF-115	6.2	4.8	5.3	5.7	5.2	5.7	70.0	5.0	5.9	6.7	6.1	5.6	5.1	4.9	5.5	5.7
PPG-TF-138	6.1	4.8	6.3	5.7	5.0	5.7	63.3	6.0	5.8	6.2	5.9	5.7	5.7	4.9	5.5	5.7
PPG-TF-169	5.8	5.6	6.5	6.1	6.0	4.7	73.3	5.7	5.9	5.9	5.6	5.3	5.2	5.9	6.3	5.7
PSG-PO1	6.1	5.3	6.8	6.1	5.3	4.0	68.3	5.3	5.6	6.0	5.9	5.5	5.4	5.5	5.8	5.7
PST-5MVD	5.2	5.1	5.8	6.1	4.7	4.7	71.7	4.7	5.8	6.4	5.7	5.6	5.3	5.2	5.8	5.7
RAPTOR III (ZW 44)	6.0	5.6	6.7	6.0	5.3	4.7	66.7	5.7	5.7	6.2	6.2	5.7	5.1	4.9	5.6	5.7
ROWDY (SRX-TPC)	6.1	4.6	6.2	6.0	5.0	5.0	70.0	4.7	5.7	6.5	6.3	5.5	5.5	5.1	5.3	5.7
TERRANO	5.8	5.1	6.0	5.9	4.8	5.3	68.3	5.0	6.1	6.3	6.2	5.7	5.2	5.1	5.3	5.7
TRINITY (BIZEM)	5.9	5.1	6.5	6.2	4.7	5.0	63.3	5.0	5.7	6.1	6.1	5.7	5.5	5.3	5.7	5.7
AMITY (CCR2)	6.1	5.5	7.0	6.1	5.8	4.3	71.7	5.3	5.7	6.4	5.9	5.5	5.3	5.1	5.3	5.6
ATF 1704	5.3	5.4	6.0	5.7	5.3	5.3	66.7	5.3	5.7	5.8	5.7	5.4	5.1	5.5	5.8	5.6
CROSSFIRE 4 (IS-TF 310 SEL)	6.7	4.8	6.5	5.7	5.2	4.7	65.0	5.3	5.7	6.2	5.9	5.3	5.1	5.2	5.6	5.6

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN TO EVALUATE BROWN PATCH AT WICHITA, KS 1/
2013-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	BROWN	FALL	FALL	PERCENT ESTABLISH- MENT	QUALITY RATINGS							MEAN	
				PATCH WARM TEMP.	COLOR NOV	COLOR DEC		MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT
DYNAMITE LS (PPG-TF-145)	7.2	4.6	6.0	5.9	4.8	5.0	65.0	5.0	5.9	6.1	5.8	5.6	5.0	5.1	5.3	5.6
EMBRACE (PST-5EV2)	5.4	4.8	6.8	6.2	4.8	4.0	68.3	5.3	5.7	5.9	5.6	5.5	5.3	5.4	5.3	5.6
FIREWALL (PSG-WE1)	6.7	5.3	6.8	6.1	5.2	4.7	65.0	5.3	5.7	6.2	5.9	5.2	5.3	5.1	5.9	5.6
HEMI	6.2	4.9	6.7	5.9	5.3	5.0	68.3	5.0	5.5	6.1	5.7	5.7	5.6	5.1	5.8	5.6
PST-5BP0	5.2	5.4	5.8	6.3	4.7	4.3	61.7	5.3	6.1	6.1	5.7	5.5	4.8	5.1	5.9	5.6
PST-5BRK	5.0	5.4	6.2	5.9	4.7	4.3	71.7	5.3	5.8	6.1	5.7	5.3	5.3	5.3	5.7	5.6
RHAMBLER 2 SRP (LSD)	6.0	4.8	6.5	5.5	5.0	5.0	78.3	5.3	5.9	6.5	5.7	5.3	4.9	5.1	5.4	5.6
SALTILLO (PST-5SALT)	5.3	4.8	5.8	6.0	4.7	4.3	65.0	5.0	5.7	6.1	5.7	5.4	5.5	4.9	5.6	5.6
SCREAMER LS (PPG-TF-148)	5.7	5.3	7.2	6.3	5.0	5.3	66.7	5.3	5.7	5.9	5.7	5.5	5.3	5.3	5.8	5.6
SUPERSONIC (PPG-TF-170)	6.3	5.5	6.0	5.5	5.3	4.7	73.3	5.7	5.9	6.1	5.8	5.5	5.1	4.9	5.8	5.6
W41	6.4	5.2	6.5	5.9	5.8	5.0	68.3	5.3	5.7	6.0	5.7	4.9	5.5	5.4	6.1	5.6
WICHITA (PPG-TF-151)	6.1	5.3	6.2	5.8	5.0	4.7	66.7	4.7	6.0	6.0	5.8	5.1	5.4	5.1	5.7	5.6
ATF 1754	5.6	5.1	6.7	6.0	5.5	4.3	63.3	5.3	5.9	5.9	5.7	5.5	5.1	5.3	5.2	5.5
B23	6.4	4.9	6.7	5.6	4.7	5.0	78.3	5.3	5.8	6.6	5.6	5.4	4.9	4.7	5.3	5.5
FAITH	6.2	5.4	6.0	5.7	5.0	4.3	75.0	5.3	5.9	6.1	5.4	5.4	5.3	4.7	5.5	5.5
FAYETTE (IS-TF 291)	7.0	4.8	6.5	5.5	5.0	5.3	71.7	5.0	5.7	6.1	5.7	5.3	4.9	5.2	5.4	5.5
FESNOVA	5.7	5.3	6.2	5.8	5.3	5.0	70.0	5.3	5.5	6.3	5.6	5.5	4.6	5.1	5.8	5.5
FOXHOUND (IS-TF 284 M2)	7.3	4.4	6.5	5.5	4.8	4.3	51.7	5.0	5.6	6.4	5.5	5.3	5.2	5.0	5.3	5.5
HOVER (BURL TF-69)	6.2	4.8	6.5	5.8	4.8	4.3	70.0	5.0	5.7	6.3	5.9	5.3	5.2	4.9	5.2	5.5
IS-TF 276 M2	6.1	5.1	6.0	5.3	5.0	4.7	70.0	5.0	6.4	6.0	5.7	5.2	4.5	4.9	5.5	5.5
IS-TF 311	6.2	5.1	6.2	6.1	5.0	4.3	61.7	5.0	5.7	5.9	5.6	5.6	5.7	4.9	5.3	5.5
PSG-GSD	5.4	5.2	6.0	5.9	4.7	5.0	75.0	5.0	6.0	6.3	5.7	5.5	5.3	4.5	5.2	5.5
PST-5EX2	4.7	5.8	5.2	6.3	4.5	4.3	75.0	5.0	5.9	5.7	5.4	5.7	5.0	5.2	5.4	5.5
SWAGGER (PST-5RO5)	5.3	4.8	5.8	6.5	4.7	4.0	71.7	5.0	5.5	5.9	5.6	5.6	5.5	5.1	5.5	5.5
ARES (PPG-TF-142)	7.3	4.5	6.0	5.4	4.7	5.3	66.7	4.7	5.5	6.1	6.0	5.4	4.7	4.6	5.2	5.4
CATALYST	5.8	5.3	6.3	5.2	4.8	4.3	71.7	5.3	5.7	6.4	6.1	4.9	4.7	4.9	5.0	5.4
DIABLO (IS-TF 330)	6.9	4.8	6.3	5.8	4.7	5.0	61.7	5.3	5.6	6.2	5.8	5.5	5.1	4.7	5.0	5.4
FALCON IV	5.7	4.8	5.5	5.5	4.7	4.3	73.3	5.3	5.9	5.9	5.6	5.4	4.9	4.6	5.0	5.4
IS-TF-287	6.6	4.9	6.2	5.9	4.5	4.3	76.7	4.7	5.8	5.9	5.6	5.4	4.8	4.9	5.6	5.4
K12-MCD	5.6	4.9	6.7	5.7	4.7	4.7	75.0	4.7	5.7	6.1	5.7	5.3	5.1	4.7	5.5	5.4
MERIDIAN (PST-5GRB)	5.2	4.5	6.8	6.1	4.5	4.0	70.0	4.3	5.1	6.1	5.5	5.5	5.3	5.1	5.3	5.4
RAD-TF-89	6.6	4.8	6.0	5.6	4.8	4.7	63.3	5.0	5.2	6.0	5.7	5.4	4.9	5.2	5.3	5.4
REBEL V (ATF 1736)	5.9	4.8	5.7	6.4	4.5	4.7	68.3	5.0	5.6	5.9	5.6	5.4	5.3	4.8	5.4	5.4
RHIZING MOON (IS-TF 305 SEL)	7.0	4.6	6.0	5.5	4.7	4.3	65.0	5.0	5.7	6.1	5.8	5.1	4.7	4.8	5.5	5.4
TRENDING (IS-TF 269 SEL)	6.7	4.8	6.5	5.2	5.2	4.7	65.0	4.7	5.6	6.3	5.7	5.3	4.5	5.0	5.4	5.4
TURFWAY (IS-TF 282 M2)	7.3	5.1	6.2	5.7	4.8	4.0	60.0	5.0	5.4	6.0	5.7	5.5	5.0	5.0	5.3	5.4
XTENDER (PPG-TF-139)	6.6	5.2	6.3	5.9	4.8	4.7	61.7	5.3	5.5	6.3	5.6	5.5	4.5	4.5	5.4	5.4
BAR FA 121089	6.1	4.8	5.7	5.4	4.5	5.0	66.7	5.0	5.9	6.0	5.5	5.3	4.8	4.3	4.8	5.3
BULLSEYE	6.1	5.2	6.2	5.2	4.8	4.0	71.7	5.3	5.7	6.1	5.9	5.1	4.6	4.3	5.1	5.3
CAESAR (TY 10)	7.1	5.2	5.8	5.1	5.0	5.3	76.7	5.0	6.0	5.9	5.7	4.9	4.6	4.7	5.2	5.3
FRONTLINE (EXP TF-09)	7.2	5.3	6.0	4.9	4.2	5.0	70.0	5.0	6.0	6.5	5.5	5.2	4.3	4.4	5.3	5.3
NIGHTCRAWLER (IS-TF 285)	7.0	4.8	6.3	5.6	4.8	4.0	70.0	5.3	5.4	6.4	6.0	5.2	4.6	4.3	4.9	5.3
OLYMPUS (RAD-TF-88)	6.3	4.8	6.5	4.9	5.3	5.0	60.0	5.0	5.5	6.3	5.7	4.9	4.7	5.0	5.0	5.3
PSG-TT4	5.6	4.7	6.0	5.3	4.5	4.0	68.3	5.3	5.7	5.8	5.4	4.9	4.6	5.1	5.2	5.3
RAD-TF-92	6.1	5.1	6.3	5.2	5.0	5.0	70.0	5.0	5.7	5.9	5.5	5.0	4.5	5.1	5.3	5.3

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN TO EVALUATE BROWN PATCH AT WICHITA, KS 1/
2013-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	BROWN PATCH	FALL COLOR	FALL COLOR	PERCENT ESTABLISH-	QUALITY RATINGS								MEAN
				WARM TEMP.	NOV	DEC	MENT	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
THUNDERSTRUCK (TD1)	6.8	4.8	6.0	5.0	5.0	5.0	68.3	5.0	5.8	6.4	5.8	5.0	4.3	4.3	5.7	5.3
UNITUS (IS-TF 289)	6.9	4.2	6.3	5.2	5.0	4.7	70.0	5.0	5.5	6.2	5.8	4.9	4.4	4.9	5.2	5.3
INSPIRATION (PST-R5NW)	5.9	4.8	5.0	5.9	4.7	4.0	66.7	5.0	5.4	5.8	5.6	5.4	4.8	4.6	4.9	5.2
JS 818	6.6	4.6	6.2	5.1	4.2	4.0	76.7	4.3	5.8	6.1	5.4	5.2	4.4	4.3	4.8	5.2
JS 819	6.4	4.7	5.7	5.1	4.3	4.0	70.0	5.0	5.5	6.2	5.6	4.7	4.7	4.2	5.3	5.2
K12-05	6.8	4.5	6.2	5.5	3.8	4.3	60.0	5.0	5.1	6.4	5.7	4.9	4.3	4.8	5.3	5.2
PSG-8BP2	6.0	4.6	6.2	5.6	4.0	4.0	70.0	4.7	5.5	5.9	5.5	5.3	4.5	4.7	4.8	5.2
PST-5DZP	6.1	4.4	6.0	5.2	4.5	4.0	60.0	5.0	5.5	6.1	5.6	5.1	4.6	4.4	5.3	5.2
RAD-TF-83	6.9	4.8	6.2	5.1	4.7	5.0	70.0	5.0	5.5	5.9	5.5	5.0	4.4	4.9	5.3	5.2
AQUADUCT	5.6	4.5	5.0	5.3	4.5	4.0	73.3	5.0	5.5	5.5	5.3	5.7	4.5	4.1	4.8	5.1
BAR FA 121091	7.2	4.3	5.5	5.5	3.8	4.3	65.0	4.7	5.5	5.9	5.5	5.1	4.6	4.3	4.6	5.1
MEMPHIS (GO-DFR)	6.6	4.7	5.8	4.9	5.2	4.3	65.0	4.7	5.6	5.9	5.5	4.9	4.4	4.6	5.1	5.1
RAIN DANCE (PST-5SDT)	5.6	5.0	5.0	5.3	4.5	4.0	68.3	5.0	5.7	5.7	5.5	4.8	4.4	4.7	5.2	5.1
TEMPTATION (OR-21)	7.6	4.7	5.5	5.1	4.7	5.3	70.0	4.7	5.2	5.9	5.7	4.9	4.3	4.5	4.8	5.1
IS-TF 272	7.6	4.4	6.7	5.3	4.7	5.0	61.7	5.0	5.4	6.0	5.6	4.9	4.1	4.1	4.9	5.0
JS 825	5.9	4.5	5.5	4.4	4.0	4.0	66.7	4.3	5.5	6.0	5.3	4.7	4.0	4.3	5.1	5.0
BAR FA 121095	6.2	4.2	6.0	4.5	4.2	3.7	65.0	4.0	5.2	5.8	5.5	4.9	4.0	4.5	4.8	4.9
COMP. RES. SST	5.9	4.5	6.7	4.1	4.2	4.7	65.0	5.0	5.7	5.9	4.9	4.7	3.9	4.1	4.8	4.9
JS 809	6.6	4.0	6.0	4.9	3.7	4.0	76.7	4.3	5.5	6.0	5.2	4.9	4.3	3.7	4.6	4.9
K12-13	6.9	3.8	6.0	5.1	4.0	4.0	55.0	4.3	4.9	5.9	5.5	4.6	4.2	4.4	4.8	4.9
MARAUDER	5.6	4.0	6.0	4.3	3.3	4.7	66.7	5.3	5.3	5.7	5.1	4.6	4.1	4.0	4.6	4.8
204 RES. BLK4	5.8	4.5	6.8	4.5	4.2	4.3	65.0	4.7	5.4	5.9	4.7	4.5	3.9	3.6	5.0	4.7
ANNIHILATOR	6.1	4.3	6.2	4.3	3.7	4.3	73.3	5.0	5.3	5.5	4.9	4.4	4.2	3.9	4.6	4.7
WARHAWK	6.3	4.3	6.3	4.4	4.5	4.3	68.3	5.3	5.6	5.5	4.9	4.5	3.7	3.9	4.8	4.7
BAR FA 120878	4.4	4.5	4.5	5.9	4.3	4.0	68.3	4.3	5.1	4.6	4.7	4.4	4.3	4.1	4.6	4.6
KY-31	3.0	5.3	3.2	6.5	3.8	4.0	84.7	4.0	3.6	3.5	3.5	3.5	3.0	3.4	3.4	3.4
C.V. (%)	10.4	15.5	10.6	23.7	15.3	11.0	7.8	9.8	23.1	15.9	14.0	16.0	20.6	24.7	18.3	9.6
LSD VALUE	0.6	0.6	0.7	1.1	0.9	0.9	9.3	1.1	3.2	0.8	0.6	0.6	0.7	1.0	0.9	0.4

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 16.

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
GROWN TO EVALUATE BROWN PATCH AT LEXINGTON, KY 1/
2015-16 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	BROWN PATCH RATINGS			NAME	BROWN PATCH RATINGS		
	WARM TEMP.	COOL TEMP.	MEAN		WARM TEMP.	COOL TEMP.	MEAN
ATF 1754	7.3	7.3	7.3	FALCON IV	7.0	6.7	6.8
F711	8.0	6.7	7.3	FESNOVA	7.0	6.7	6.8
FAYETTE (IS-TF 291)	7.7	7.0	7.3	GRANDE 3	7.3	6.3	6.8
GTO (BURL TF-2)	8.0	6.7	7.3	HOT ROD (BURL TF-136)	7.3	6.3	6.8
MET 1	7.7	7.0	7.3	HOVER (BURL TF-69)	7.0	6.7	6.8
PARAMOUNT (PPG-TF-137)	7.7	7.0	7.3	IS-TF 276 M2	7.3	6.3	6.8
PSG-PO1	7.7	7.0	7.3	IS-TF-287	7.3	6.3	6.8
REFLECTION (U45)	7.7	7.0	7.3	JS 916	7.0	6.7	6.8
TECHNIQUE (RZ2)	8.0	6.7	7.3	LEONARDO (LTP-FSD)	7.0	6.7	6.8
AVENGER II (PPG-TF-156)	7.3	7.0	7.2	MICHELANGELO (LTP-F5DPDR)	7.0	6.7	6.8
BLOODHOUND (MET 6 SEL)	7.7	6.7	7.2	PPG-TF-115	7.0	6.7	6.8
EMBRACE (PST-5EV2)	7.3	7.0	7.2	PST-5EX2	7.0	6.7	6.8
FIREBIRD 2	7.3	7.0	7.2	PST-5MVD	7.0	6.7	6.8
IS-TF 311	7.3	7.0	7.2	RAD-TF-92	7.0	6.7	6.8
MAESTRO (T31)	7.3	7.0	7.2	RHAMBLER 2 SRP (LSD)	7.0	6.7	6.8
PST-5BRK	7.7	6.7	7.2	ROCKWELL (LTP-TWUU)	7.0	6.7	6.8
RAPTOR III (ZW 44)	7.7	6.7	7.2	SCREAMER LS (PPG-TF-148)	7.0	6.7	6.8
REBOUNDER (PICK-W43)	7.3	7.0	7.2	SUPERSONIC (PPG-TF-170)	7.0	6.7	6.8
ROWDY (SRX-TPC)	7.7	6.7	7.2	SWAGGER (PST-5RO5)	7.3	6.3	6.8
TRAVERSE 2 SRP (W45)	7.0	7.3	7.2	THOR (PPG-TF-157)	7.0	6.7	6.8
4TH MILLENNIUM SRP (U43)	7.0	7.0	7.0	UNITUS (IS-TF 289)	7.3	6.3	6.8
ARES (PPG-TF-142)	7.3	6.7	7.0	VALKYRIE LS (PPG-TF-172)	7.3	6.3	6.8
BLACK TAIL (PPG-TF-150)	7.0	7.0	7.0	W41	7.0	6.7	6.8
CATALYST	7.0	7.0	7.0	ATF 1704	7.0	6.3	6.7
CROSSFIRE 4 (IS-TF 310 SEL)	7.3	6.7	7.0	FAITH	7.3	6.0	6.7
DYNAMITE LS (PPG-TF-145)	7.3	6.7	7.0	FOXHOUND (IS-TF 284 M2)	7.0	6.3	6.7
FALCON V	7.3	6.7	7.0	IS-TF 272	7.0	6.3	6.7
FIRECRACKER SLS (PPG-TF-105)	7.0	7.0	7.0	MERIDIAN (PST-5GRB)	7.3	6.0	6.7
FIREWALL (PSG-WE1)	7.3	6.7	7.0	PSG-GSD	7.0	6.3	6.7
HEMI	7.0	7.0	7.0	RAD-TF-83	7.0	6.3	6.7
HOUNDOG8 (IS-TF 307 SEL)	7.3	6.7	7.0	RAIN DANCE (PST-5SDT)	7.3	6.0	6.7
KY-31	7.0	7.0	7.0	RHIZING MOON (IS-TF 305 SEL)	7.0	6.3	6.7
MET-3	7.0	7.0	7.0	TERRANO	7.0	6.3	6.7
NIGHTCRAWLER (IS-TF 285)	7.3	6.7	7.0	TITANIUM 2LS (PPG-TF-152)	6.7	6.7	6.7
PPG-TF-135	7.0	7.0	7.0	TRENDING (IS-TF 269 SEL)	7.3	6.0	6.7
PPG-TF-138	7.3	6.7	7.0	TURFWAY (IS-TF 282 M2)	7.0	6.3	6.7
PPG-TF-169	7.3	6.7	7.0	VERT (ATF 1612)	6.7	6.7	6.7
RAD-TF-89	7.0	7.0	7.0	WICHITA (PPG-TF-151)	7.0	6.3	6.7
REGENERATE	7.0	7.0	7.0	XTENDER (PPG-TF-139)	7.0	6.3	6.7
STANDOUT (IS-TF 308 SEL)	7.3	6.7	7.0	CAESAR (TY 10)	7.0	6.0	6.5
TEMPLE (DZ1)	7.3	6.7	7.0	DIABLO (IS-TF 330)	7.0	6.0	6.5
TRINITY (BIZEM)	7.3	6.7	7.0	FRONTLINE (EXP TF-09)	7.0	6.0	6.5
AMITY (CCR2)	7.0	6.7	6.8	INSPIRATION (PST-R5NW)	7.0	6.0	6.5
B23	7.3	6.3	6.8	JS 819	7.0	6.0	6.5
BULLSEYE	7.0	6.7	6.8	K12-MCD	7.0	6.0	6.5

TABLE 16.
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
GROWN TO EVALUATE BROWN PATCH AT LEXINGTON, KY 1/
2015-16 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	BROWN PATCH RATINGS		MEAN
	WARM TEMP.	COOL TEMP.	
OLYMPUS (RAD-TF-88)	7.0	6.0	6.5
PST-5BP0	7.0	6.0	6.5
PST-5DZP	7.0	6.0	6.5
REBEL V (ATF 1736)	6.7	6.3	6.5
SALTILLO (PST-5SALT)	7.0	6.0	6.5
JS 818	6.7	6.0	6.3
JS 825	7.0	5.7	6.3
KINGDOM (DB1)	7.0	5.7	6.3
PSG-TT4	7.0	5.7	6.3
TEMPTATION (OR-21)	7.0	5.7	6.3
THUNDERSTRUCK (TD1)	7.0	5.7	6.3
BAR FA 121095	6.7	5.7	6.2
K12-05	6.7	5.7	6.2
PSG-8BP2	7.0	5.3	6.2
JS 809	6.7	5.3	6.0
MEMPHIS (GO-DFR)	7.0	5.0	6.0
AQUADUCT	6.3	5.3	5.8
BAR FA 120878	6.7	5.0	5.8
BAR FA 121089	6.3	5.3	5.8
K12-13	6.3	5.3	5.8
ANNIHILATOR	6.7	4.7	5.7
COMP. RES. SST	7.0	4.3	5.7
WARHAWK	6.3	5.0	5.7
204 RES. BLK4	7.0	4.0	5.5
MARAUDER	6.7	4.0	5.3
BAR FA 121091	6.0	3.7	4.8
LSD VALUE	0.7	1.2	1.0
C.V. (%)	5.4	11.1	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.

TABLE 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2014-17 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT											
	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	ESTABLISH- MENT	APR	MAY	QUALITY RATINGS					MEAN
					JUN	JUL	AUG	SEP	OCT			
IS-TF 272	6.8	5.1	6.3	43.3	3.7	7.1	6.9	6.5	6.0	6.3	4.9	6.1
4TH MILLENNIUM SRP (U43)	6.0	5.7	6.3	46.7	4.0	7.0	6.7	6.2	5.7	6.0	5.2	6.0
FAYETTE (IS-TF 291)	6.0	5.3	6.0	43.3	4.2	6.9	6.7	6.3	5.8	6.1	4.8	6.0
FIREWALL (PSG-WE1)	5.8	5.8	6.0	53.3	4.5	6.9	6.3	6.2	5.9	5.9	5.3	6.0
MET 1	6.2	5.8	5.7	63.3	4.3	7.3	6.5	6.4	5.3	5.7	5.3	6.0
RAPTOR III (ZW 44)	6.2	5.5	6.3	63.3	4.0	7.3	6.6	6.2	5.3	5.6	5.0	5.9
REBOUNDER (PICK-W43)	6.0	5.3	6.7	53.3	3.8	7.1	6.6	6.0	5.5	5.9	4.9	5.9
TRENDING (IS-TF 269 SEL)	5.8	5.4	6.0	43.3	4.2	7.4	6.8	5.9	5.5	5.3	5.0	5.9
UNITUS (IS-TF 289)	6.3	5.2	6.3	50.0	4.0	7.2	6.8	6.3	5.4	5.6	4.8	5.9
AMITY (CCR2)	5.5	5.8	6.0	50.0	4.2	7.1	6.3	5.6	5.3	6.2	5.3	5.8
F711	5.7	5.5	5.7	60.0	4.5	7.0	6.1	6.0	5.4	5.5	5.0	5.8
FAITH	5.8	5.7	6.0	46.7	4.5	6.7	6.1	6.1	5.5	6.0	4.8	5.8
FOXHOUND (IS-TF 284 M2)	6.7	5.4	6.7	40.0	3.3	7.1	6.6	6.6	5.4	5.3	4.7	5.8
HOT ROD (BURL TF-136)	6.0	5.4	5.7	60.0	4.2	7.2	6.3	6.1	5.5	5.8	4.8	5.8
HOVER (BURL TF-69)	5.8	5.5	6.3	40.0	3.8	7.0	6.6	5.9	5.3	5.6	5.0	5.8
KINGDOM (DB1)	6.3	5.0	5.7	50.0	3.5	7.2	6.9	6.4	5.3	5.6	4.6	5.8
PARAMOUNT (PPG-TF-137)	6.0	5.4	6.0	60.0	3.8	6.9	6.4	6.1	5.3	5.6	4.9	5.8
REGENERATE	6.0	5.4	6.0	60.0	3.8	7.2	6.7	6.2	5.3	5.8	4.7	5.8
THUNDERSTRUCK (TD1)	6.2	5.5	6.0	50.0	3.8	7.2	6.8	6.1	5.3	5.5	4.7	5.8
TRAVERSE 2 SRP (W45)	5.7	5.7	6.0	46.7	4.2	7.6	6.3	5.9	4.9	5.5	5.1	5.8
AVENGER II (PPG-TF-156)	5.3	5.7	6.0	50.0	3.8	6.9	6.4	5.7	5.3	5.5	5.2	5.7
BULLSEYE	5.7	5.8	6.0	50.0	4.3	6.9	6.3	5.8	5.1	5.7	5.1	5.7
CATALYST	5.7	5.5	6.0	60.0	4.2	6.9	6.0	5.8	5.3	5.6	5.0	5.7
CROSSFIRE 4 (IS-TF 310 SEL)	6.0	5.3	6.0	56.7	3.7	7.3	6.6	5.7	5.1	5.2	4.9	5.7
FIRECRACKER SLS (PPG-TF-105)	6.0	5.4	5.7	53.3	4.3	7.2	6.3	5.8	5.2	5.4	4.7	5.7
IS-TF 311	5.8	5.8	6.0	43.3	4.2	6.7	6.1	6.2	5.3	5.8	4.8	5.7
LEONARDO (LTP-FSD)	5.5	5.4	5.7	60.0	3.8	6.8	6.0	6.0	5.5	5.5	4.9	5.7
MEMPHIS (GO-DFR)	6.2	5.3	6.3	46.7	4.0	6.3	5.9	6.3	5.8	5.8	4.6	5.7
MET-3	5.7	5.8	6.0	46.7	3.7	6.8	6.3	5.9	5.3	5.5	5.3	5.7
NIGHTCRAWLER (IS-TF 285)	5.8	5.6	6.0	53.3	3.8	7.3	6.6	6.1	4.8	5.4	4.6	5.7
PSG-PO1	5.8	5.3	6.0	43.3	3.7	7.1	6.3	6.0	5.3	5.6	4.6	5.7
RAD-TF-89	6.2	5.1	6.0	40.0	3.8	6.8	6.2	6.2	5.2	5.7	4.8	5.7
REFLECTION (U45)	5.3	5.6	5.3	46.7	3.7	7.6	6.4	5.7	5.2	5.6	4.6	5.7
ROCKWELL (LTP-TWUU)	5.8	5.9	6.3	53.3	4.7	6.7	6.3	5.8	5.3	5.6	4.8	5.7
TRINITY (BIZEM)	5.7	5.8	6.0	46.7	4.2	7.1	6.3	5.9	5.5	5.5	4.7	5.7
TURFWAY (IS-TF 282 M2)	6.2	5.5	6.3	46.7	3.5	7.3	7.0	6.1	4.9	5.3	4.5	5.7
ARES (PPG-TF-142)	6.3	5.4	6.0	50.0	4.3	7.0	6.3	6.0	5.1	5.4	4.2	5.6
B23	5.5	5.5	6.0	46.7	3.8	7.7	6.9	5.6	4.8	5.1	4.4	5.6
CAESAR (TY 10)	6.0	5.3	5.7	43.3	4.0	6.8	6.2	6.0	5.3	5.3	4.6	5.6
DIABLO (IS-TF 330)	6.2	5.6	6.3	43.3	4.0	7.4	6.6	5.9	4.9	5.2	4.4	5.6
DYNAMITE LS (PPG-TF-145)	6.5	5.6	6.0	50.0	4.3	7.3	6.8	5.7	5.0	4.9	4.3	5.6
GRANDE 3	5.0	5.6	6.0	53.3	3.8	6.5	5.8	5.6	5.5	5.9	5.2	5.6
GTO (BURL TF-2)	5.8	5.8	6.0	56.7	4.0	6.5	6.1	5.8	5.3	5.7	4.9	5.6
HOUNDOG8 (IS-TF 307 SEL)	6.3	5.7	6.7	53.3	4.0	7.5	6.4	5.9	4.8	5.3	4.4	5.6
IS-TF 276 M2	5.7	5.3	6.0	50.0	3.8	6.8	6.3	5.8	5.1	5.3	4.7	5.6

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2014-17 DATA

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

NAME	GENETIC		LEAF TEXTURE	PERCENT ESTABLISHMENT			QUALITY RATINGS					
	COLOR	SPRING GREENUP		APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN	
K12-05	5.8	5.0	6.0	43.3	3.8	6.8	6.5	5.6	5.2	5.3	4.6	5.6
K12-13	5.5	4.8	6.0	40.0	3.2	7.1	6.7	5.8	5.3	5.6	4.3	5.6
K12-MCD	5.7	5.4	5.7	53.3	3.8	6.5	6.3	6.0	5.4	5.3	4.7	5.6
MICHELANGELO (LTP-F5DPDR)	5.3	5.0	5.3	66.7	3.8	6.8	5.8	5.9	5.3	5.6	4.6	5.6
RAD-TF-92	5.8	5.0	6.0	56.7	3.7	6.9	6.4	6.1	4.8	5.0	4.7	5.6
ROWDY (SRX-TPC)	5.7	4.9	5.7	60.0	4.2	6.8	6.0	6.0	5.2	5.3	4.6	5.6
STANDOUT (IS-TF 308 SEL)	5.7	5.5	5.3	40.0	4.2	7.1	6.6	5.9	4.9	5.3	4.6	5.6
TEMPTATION (OR-21)	6.8	5.6	6.0	50.0	4.2	7.2	6.3	6.2	5.1	4.9	4.4	5.6
THOR (PPG-TF-157)	6.0	5.6	5.0	50.0	4.2	7.0	6.6	5.7	4.8	5.2	4.6	5.6
VALKYRIE LS (PPG-TF-172)	5.8	5.0	6.3	46.7	4.0	6.8	6.2	5.7	5.2	5.6	4.7	5.6
W41	5.8	5.4	6.0	43.3	4.0	6.4	6.3	6.0	5.5	5.7	4.7	5.6
204 RES. BLK4	5.5	5.5	6.7	50.0	3.3	6.3	5.7	5.4	5.4	5.7	5.1	5.5
FESNOVA	6.0	5.6	5.7	53.3	4.0	6.8	6.3	5.5	5.0	5.2	4.7	5.5
FIREBIRD 2	5.7	5.5	6.3	50.0	3.3	7.0	6.4	5.8	5.1	5.3	4.4	5.5
MAESTRO (T31)	5.8	5.6	6.0	36.7	4.3	6.4	5.9	5.7	5.1	5.4	4.8	5.5
PPG-TF-135	5.8	5.7	6.0	53.3	4.3	6.8	5.7	5.8	5.1	5.3	4.8	5.5
PST-5DZP	5.8	5.2	5.3	50.0	3.5	6.8	6.1	5.8	5.4	5.3	4.5	5.5
RAD-TF-83	6.0	5.5	6.0	43.3	3.7	7.0	6.4	5.8	4.7	5.1	4.4	5.5
TITANIUM 2LS (PPG-TF-152)	5.3	5.5	6.0	50.0	4.2	7.0	6.4	5.6	4.8	4.9	4.8	5.5
XTENDER (PPG-TF-139)	5.7	5.2	6.0	56.7	4.0	6.9	6.2	5.8	5.0	5.4	4.4	5.5
BAR FA 121095	5.5	5.2	6.0	53.3	3.8	6.8	6.2	5.8	4.8	4.7	4.4	5.4
BLOODHOUND (MET 6 SEL)	5.5	5.5	6.0	46.7	3.7	6.6	6.1	5.6	5.1	5.5	4.5	5.4
COMP. RES. SST	5.5	5.1	6.0	56.7	3.2	6.4	6.0	5.8	5.1	5.6	4.5	5.4
HEMI	5.5	6.0	6.3	53.3	5.0	7.0	6.2	5.3	4.5	5.2	4.3	5.4
OLYMPUS (RAD-TF-88)	5.5	5.0	6.7	50.0	4.0	6.8	6.6	5.6	4.6	4.8	4.6	5.4
PPG-TF-115	5.7	5.3	5.7	46.7	4.2	7.0	5.8	5.8	5.1	5.1	4.3	5.4
PPG-TF-138	5.2	5.5	6.0	60.0	4.0	7.1	6.0	5.5	4.8	4.8	4.4	5.4
PPG-TF-169	5.0	5.8	5.3	53.3	3.8	6.1	5.8	5.6	4.9	5.4	4.9	5.4
PST-5BP0	5.5	5.4	5.0	50.0	3.7	6.0	5.7	5.9	5.2	5.4	4.7	5.4
RHAMBLER 2 SRP (LSD)	6.0	5.3	6.0	50.0	4.5	7.1	6.4	5.6	4.4	5.1	4.3	5.4
SCREAMER LS (PPG-TF-148)	5.8	5.8	6.3	50.0	3.8	6.2	5.5	5.6	5.3	5.3	4.8	5.4
SUPERSONIC (PPG-TF-170)	5.8	5.8	6.0	60.0	4.2	6.7	5.9	5.6	4.8	5.2	4.8	5.4
SWAGGER (PST-5RO5)	5.7	5.4	5.7	63.3	4.3	6.5	6.0	5.8	4.8	5.3	4.3	5.4
ATF 1754	5.3	5.3	5.7	43.3	3.5	6.5	5.6	5.5	5.0	5.3	4.5	5.3
BLACK TAIL (PPG-TF-150)	5.2	5.6	6.0	56.7	3.8	6.7	6.0	5.3	4.8	5.1	4.7	5.3
FALCON V	5.8	5.6	6.0	46.7	4.2	6.2	5.8	5.3	4.9	5.1	4.7	5.3
IS-TF-287	5.7	5.8	5.7	53.3	3.8	6.9	6.2	5.3	4.8	4.8	4.5	5.3
JS 916	5.7	5.5	5.7	40.0	3.8	7.3	5.9	5.5	4.6	4.8	4.4	5.3
PST-5BRK	5.7	5.6	5.3	56.7	4.3	6.4	5.7	5.8	5.0	5.1	4.4	5.3
RHIZING MOON (IS-TF 305 SEL)	5.5	5.4	5.7	53.3	3.7	6.8	6.3	5.6	4.5	5.1	4.3	5.3
TERRANO	5.7	5.3	6.0	40.0	3.8	6.7	5.5	5.8	4.9	5.0	4.4	5.3
VERT (ATF 1612)	5.7	5.7	6.3	53.3	4.3	6.4	6.0	5.5	4.8	5.0	4.4	5.3
WICHITA (PPG-TF-151)	5.3	5.3	6.0	40.0	3.8	6.9	5.8	5.8	4.8	5.0	4.3	5.3
ATF 1704	5.3	5.8	5.3	46.7	3.8	6.0	5.5	5.5	4.8	5.1	4.8	5.2
EMBRACE (PST-5EV2)	5.0	5.6	5.7	53.3	4.0	6.3	5.8	5.6	4.7	4.9	4.4	5.2

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2014-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	PERCENT ESTABLISHMENT	QUALITY RATINGS							MEAN
					APR	MAY	JUN	JUL	AUG	SEP	OCT	
JS 809	5.7	5.0	5.7	46.7	3.7	6.6	5.7	5.7	4.7	4.7	4.2	5.2
PSG-8BP2	5.7	5.4	6.0	43.3	4.0	6.2	5.6	5.5	5.1	5.1	4.3	5.2
PST-5MVD	5.7	5.5	5.7	53.3	3.5	6.3	5.7	5.6	5.0	5.0	4.1	5.2
REBEL V (ATF 1736)	5.3	4.8	5.7	56.7	3.3	6.2	5.4	5.8	5.1	5.2	4.4	5.2
BAR FA 121091	5.3	5.1	5.3	46.7	3.7	6.6	5.8	5.3	4.8	4.7	4.1	5.1
FALCON IV	5.5	5.7	5.0	53.3	4.2	6.1	5.3	5.5	4.6	4.6	4.5	5.1
FRONTLINE (EXP TF-09)	5.8	5.3	5.7	40.0	4.2	6.2	5.4	5.5	4.8	4.8	4.2	5.1
INSPIRATION (PST-R5NW)	6.0	5.3	4.7	60.0	3.8	6.3	5.4	5.4	5.0	4.6	4.5	5.1
JS 819	5.5	5.2	5.7	50.0	3.8	6.8	5.8	5.5	4.3	4.4	3.8	5.1
PSG-GSD	5.2	5.3	5.7	43.3	4.0	6.3	5.8	5.4	4.6	4.8	4.2	5.1
RAIN DANCE (PST-5SDT)	5.5	5.3	5.0	56.7	4.0	5.8	5.2	5.5	5.0	5.2	4.4	5.1
SALTILLO (PST-5SALT)	5.3	5.0	6.0	46.7	4.0	6.1	5.3	5.2	4.9	4.8	4.4	5.1
TECHNIQUE (RZ2)	5.5	5.7	6.0	50.0	4.0	6.8	6.0	4.9	4.3	4.7	4.5	5.1
TEMPLE (DZ1)	5.7	5.5	5.7	50.0	3.3	6.4	6.0	5.3	4.7	4.8	4.4	5.1
JS 818	5.8	5.2	5.7	53.3	3.3	6.8	5.7	5.4	4.3	4.5	4.0	5.0
MERIDIAN (PST-5GRB)	5.2	5.7	6.0	46.7	4.7	6.4	5.9	5.2	4.4	4.5	3.8	5.0
PSG-TT4	5.2	5.5	5.7	63.3	3.7	6.2	5.4	5.3	4.6	4.7	4.1	5.0
WARHAWK	5.7	5.3	6.0	60.0	4.0	6.0	5.2	5.4	4.8	4.7	4.1	5.0
ANNIHILATOR	5.3	5.0	6.0	56.7	3.5	6.3	5.3	5.1	4.8	4.8	3.6	4.9
JS 825	5.7	4.8	5.7	46.7	3.3	6.3	5.7	4.8	4.5	4.5	3.9	4.9
MARAUDER	5.5	5.1	6.0	56.7	3.7	6.0	5.2	5.4	4.8	4.8	4.0	4.9
PST-5EX2	5.7	5.8	5.7	63.3	4.5	5.1	4.8	5.0	4.5	5.0	4.8	4.9
BAR FA 121089	5.3	5.3	5.0	43.3	4.0	5.9	5.6	5.1	4.3	4.4	4.0	4.8
AQUADUCT	5.2	5.1	6.0	50.0	3.5	5.7	4.6	4.5	4.2	4.3	3.9	4.5
BAR FA 120878	4.2	5.4	4.7	63.3	4.2	4.8	3.8	4.1	3.7	3.8	3.4	4.0
KY-31	3.2	5.7	3.3	63.3	3.3	3.7	2.2	2.4	2.4	2.2	2.0	2.6
LSD VALUE	0.8	9.8	1.1	17.8	6.8	2.2	0.8	1.2	1.0	1.0	1.7	0.7
C.V. (%)	11.4	34.1	9.2	16.6	29.4	24.5	16.7	20.9	20.7	20.9	27.3	15.6

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 18.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 GROWN FOR SPREAD STUDY AT LOGAN, UT 1/
 2014-16 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/
 HOLE DIAMETER MEASURED IN SQ CM

NAME	RHIZOME	HOLE 1	HOLE 2	RHIZOME	HOLE 1	HOLE 2	HOLE 1	HOLE 2	RHIZOME	HOLE 1	HOLE 2	HOLE 1	HOLE 2
	COUNTS	DIAMETER		COUNTS	DIAMETER		DIAMETER		COUNTS	DIAMETER		DIAMETER	
	2014	SPR 14	SPR 14	2015	SPR 15	SPR 15	FALL 15	FALL 15	2016	SPR 16	SPR 16	FALL 16	FALL 16
FAYETTE (IS-TF 291)	5.7	15.0	14.3	1.0	14.7	14.7	13.3	13.3	0.7	12.7	13.3	10.0	12.7
JS 818	2.0	14.7	15.7	3.0	15.0	14.3	15.0	12.0	10.0	12.0	14.0	10.7	12.7
TEMPLE (DZ1)	5.0	13.7	15.0	1.3	15.0	14.3	13.0	13.3	0.3	11.0	12.7	10.0	12.7
4TH MILLENNIUM SRP (U43)	3.0	12.7	13.3	0.0	14.0	13.3	13.3	13.7	1.3	11.3	13.3	10.7	12.0
AQUADUCT	6.7	14.3	14.3	3.0	14.3	13.7	13.0	13.7	2.3	11.3	13.3	9.0	12.0
GRANDE 3	6.0	13.7	14.0	1.3	14.3	13.3	12.3	12.7	0.7	12.7	11.3	10.3	12.0
GTO (BURL TF-2)	3.7	15.3	16.0	1.3	15.0	15.0	13.0	15.3	1.3	11.7	12.7	10.7	12.0
HEMI	1.7	12.3	16.0	1.3	13.7	14.0	13.3	12.7	0.7	10.7	13.0	9.7	12.0
CAESAR (TY 10)	5.7	14.0	13.7	1.7	14.0	14.7	12.3	13.0	3.0	10.7	12.3	11.0	11.7
FOXHOUND (IS-TF 284 M2)	5.7	14.3	14.7	1.0	15.0	14.7	12.0	13.7	4.0	11.5	12.0	8.7	11.7
JS 825	4.0	14.3	14.7	4.0	13.3	15.3	13.3	12.7	2.7	11.0	11.7	10.0	11.7
PSG-GSD	1.3	14.0	14.7	1.3	13.3	14.0	13.7	13.3	3.0	11.7	11.3	11.0	11.7
W41	1.0	14.7	16.0	2.0	14.0	14.7	14.0	13.3	2.0	10.3	12.3	11.7	11.7
BAR FA 121091	0.3	15.3	15.7	1.7	14.0	14.3	13.7	13.3	1.7	12.0	12.0	11.0	11.5
ATF 1704	2.7	14.7	14.3	0.3	14.0	15.7	13.7	12.7	1.7	9.7	11.0	11.3	11.3
BLACK TAIL (PPG-TF-150)	1.3	15.0	15.3	1.7	15.0	14.7	12.7	12.7	0.7	11.7	12.0	10.0	11.3
COMP. RES. SST	3.3	15.0	15.3	0.3	15.7	16.0	13.7	14.3	2.0	13.3	12.3	11.7	11.3
CROSSFIRE 4 (IS-TF 310 SEL)	1.0	13.7	13.0	1.0	13.0	14.0	13.0	13.0	1.7	10.3	12.7	10.0	11.3
FALCON IV	5.0	14.7	15.0	3.3	14.0	15.0	13.3	12.7	1.7	12.0	11.3	11.0	11.3
FALCON V	2.0	14.0	14.0	0.3	14.3	14.3	13.0	12.7	1.3	12.0	12.3	10.7	11.3
FESNOVA	1.7	15.0	14.7	2.7	14.7	14.3	13.7	13.0	3.3	12.0	11.0	11.0	11.3
FIREBIRD 2	1.7	13.3	15.0	1.7	13.7	14.7	12.7	14.0	0.7	11.3	12.7	9.0	11.3
FIREWALL (PSG-WE1)	0.7	14.0	15.3	1.3	15.0	15.0	13.0	11.7	2.0	12.3	12.3	9.3	11.3
HOVER (BURL TF-69)	6.3	12.7	12.7	1.7	14.7	14.3	12.7	13.0	1.0	12.7	13.0	11.3	11.3
JS 916	0.3	14.7	15.0	2.3	14.3	14.7	13.3	13.7	1.7	12.0	12.0	11.3	11.3
K12-05	5.0	14.3	14.7	3.7	14.0	13.7	13.3	11.7	1.3	10.3	12.7	9.3	11.3
KINGDOM (DB1)	9.3	13.7	14.3	2.7	13.7	14.3	12.3	13.0	3.7	11.0	12.0	10.3	11.3
KY-31	3.3	14.0	15.7	3.7	15.0	15.0	13.0	13.3	4.0	12.3	11.3	12.7	11.3
REFLECTION (U45)	1.3	13.0	14.7	0.3	14.0	14.3	13.0	13.3	1.3	12.0	12.7	9.7	11.3
TRAVERSE 2 SRP (W45)	1.7	15.0	15.0	0.7	14.0	14.7	12.3	13.0	1.3	11.3	12.0	7.3	11.3
VALKYRIE LS (PPG-TF-172)	9.0	14.0	14.7	1.0	14.3	14.0	13.0	12.7	2.3	11.7	13.7	9.7	11.3
ATF 1754	2.0	14.3	13.7	2.7	14.0	13.7	13.7	13.0	2.7	12.0	11.0	11.0	11.0
BAR FA 121095	3.0	14.7	15.0	0.3	14.3	14.3	13.0	13.3	1.0	12.0	13.0	10.3	11.0
IS-TF 272	2.3	13.7	14.7	0.3	14.0	14.3	12.7	13.7	0.7	11.7	12.0	10.0	11.0
IS-TF-287	3.0	12.7	13.3	0.3	13.7	13.3	14.0	13.0	0.3	12.3	11.5	10.3	11.0
K12-13	4.7	13.7	13.3	1.3	14.0	14.0	14.3	13.7	1.0	13.0	12.7	10.0	11.0
MERIDIAN (PST-5GRB)	0.7	14.0	15.0	1.7	14.3	13.7	12.3	13.7	1.7	11.3	13.7	9.7	11.0
MET-3	3.7	13.7	14.3	0.3	14.0	13.0	12.3	12.7	2.3	10.0	12.7	10.3	11.0
NIGHTCRAWLER (IS-TF 285)	5.7	14.3	14.3	2.0	14.7	14.0	12.7	13.3	1.0	12.3	11.7	9.7	11.0
PSG-8BP2	3.7	14.7	14.0	2.3	14.3	14.0	13.7	13.3	0.7	11.7	13.7	9.7	11.0
PSG-PO1	5.0	14.3	13.7	0.7	14.0	14.0	13.7	13.3	0.7	12.7	13.3	10.0	11.0
PST-5DZP	7.0	15.0	15.7	2.3	13.3	14.3	12.0	13.3	0.3	11.3	9.5	9.0	11.0
RAD-TF-92	3.0	14.7	13.7	0.7	13.7	14.0	13.5	12.3	0.3	12.7	10.5	11.0	11.0
REBEL V (ATF 1736)	4.0	14.0	14.0	1.0	12.7	14.3	12.0	12.3	1.7	12.0	12.3	10.7	11.0
RHIZING MOON (IS-TF 305 SEL)	2.7	13.7	14.7	1.7	13.7	13.3	12.7	13.7	1.0	13.5	13.0	11.7	11.0

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN FOR SPREAD STUDY AT LOGAN, UT 1/
2014-16 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/
HOLE DIAMETER MEASURED IN SQ CM

NAME	RHIZOME	HOLE 1	HOLE 2	RHIZOME	HOLE 1	HOLE 2	HOLE 1	HOLE 2	RHIZOME	HOLE 1	HOLE 2	HOLE 1	HOLE 2
	COUNTS	DIAMETER		COUNTS	DIAMETER		DIAMETER		COUNTS	DIAMETER		DIAMETER	
	2014	SPR 14	SPR 14	2015	SPR 15	SPR 15	FALL 15	FALL 15	2016	SPR 16	SPR 16	FALL 16	FALL 16
TRENDING (IS-TF 269 SEL)	2.3	14.3	14.3	0.7	14.3	14.7	14.0	14.0	1.0	13.0	12.3	9.0	11.0
TURFWAY (IS-TF 282 M2)	6.0	14.0	14.3	2.0	14.0	14.0	13.0	12.7	5.3	11.3	11.7	10.7	11.0
UNITUS (IS-TF 289)	3.0	13.7	15.0	1.7	15.0	14.3	13.3	13.3	1.0	13.0	12.3	10.0	11.0
WARHAWK	4.7	14.0	14.3	1.7	13.0	14.3	12.7	13.7	3.7	12.5	12.3	10.0	11.0
ANNIHILATOR	2.7	15.3	14.0	1.3	14.7	14.3	14.0	13.3	0.0	12.7	12.3	12.0	10.7
BAR FA 121089	5.0	14.7	13.7	1.0	13.7	14.3	13.7	14.0	1.3	11.3	12.0	10.3	10.7
BULLSEYE	3.3	14.7	13.7	1.0	14.0	14.0	12.7	13.3	2.3	12.3	12.3	9.0	10.7
IS-TF 311	2.7	13.7	14.7	1.3	13.3	14.0	13.7	12.0	0.7	12.0	11.0	9.7	10.7
K12-MCD	2.0	13.0	13.7	1.0	14.0	13.3	13.0	12.7	4.0	11.0	12.0	11.0	10.7
PPG-TF-115	4.0	13.0	14.3	3.3	12.7	13.0	12.0	11.3	6.0	11.3	13.0	9.7	10.7
PPG-TF-135	4.0	14.0	14.7	2.3	13.3	14.0	14.3	13.3	1.0	10.3	12.0	9.3	10.7
PST-5BP0	4.0	13.7	13.3	1.0	13.0	14.0	12.3	12.0	1.3	11.3	10.7	9.7	10.7
PST-5EX2	2.7	13.3	14.0	3.0	14.3	13.7	11.7	13.0	2.0	11.0	12.7	9.3	10.7
PST-5MVD	2.7	14.3	15.0	0.7	13.3	14.0	12.3	13.0	4.3	11.0	11.3	9.3	10.7
RAD-TF-83	2.0	14.0	14.3	1.0	14.3	15.3	13.0	12.3	3.7	12.0	10.3	10.3	10.7
RHAMBLER 2 SRP (LSD)	3.3	15.0	14.3	1.7	14.3	14.3	13.7	13.3	4.3	12.3	12.0	11.0	10.7
ROCKWELL (LTP-TWUU)	2.0	13.7	15.0	1.7	12.0	14.7	12.3	13.0	1.3	10.7	11.3	10.3	10.7
THUNDERSTRUCK (TD1)	9.3	13.7	13.3	5.0	14.7	14.3	14.0	13.3	2.0	11.0	11.3	8.7	10.7
B23	6.0	15.0	15.3	0.3	15.0	14.0	13.0	13.7	1.0	11.0	10.3	10.0	10.3
BAR FA 120878	2.0	13.3	15.0	1.0	13.3	13.3	12.0	12.7	2.0	9.7	11.0	8.7	10.3
BLOODHOUND (MET 6 SEL)	3.7	14.7	14.7	1.0	14.3	14.0	14.3	13.3	0.0	13.0	12.0	11.3	10.3
CATALYST	1.0	15.0	16.0	1.0	14.3	14.0	14.0	14.0	0.7	13.0	12.3	11.3	10.3
EMBRACE (PST-5EV2)	2.7	13.7	14.0	2.7	14.0	14.0	13.7	12.3	1.7	12.7	11.3	10.7	10.3
FIRECRACKER SLS (PPG-TF-105)	2.7	14.0	14.7	1.7	13.7	14.0	13.0	13.0	1.3	12.0	13.0	9.7	10.3
HOT ROD (BURL TF-136)	2.0	13.7	12.3	1.3	14.0	15.0	12.7	12.0	1.0	11.7	12.3	10.0	10.3
HOUNDOG8 (IS-TF 307 SEL)	1.0	14.3	13.7	1.3	14.3	14.3	13.3	13.3	1.0	11.3	11.7	10.7	10.3
MAESTRO (T31)	2.7	14.0	14.3	0.3	14.3	14.0	13.0	14.0	2.7	11.7	9.3	10.3	10.3
MET 1	2.0	14.3	14.0	2.0	13.3	14.7	13.7	13.7	1.3	11.7	12.3	10.0	10.3
PPG-TF-169	4.0	14.3	14.7	2.3	13.0	14.3	13.3	13.0	2.0	9.3	11.7	8.7	10.3
PST-5BRK	2.3	14.0	14.0	1.7	14.7	13.7	13.0	13.7	1.0	12.0	11.7	11.0	10.3
RAIN DANCE (PST-5SDT)	5.0	14.3	14.3	1.0	13.0	13.7	13.7	12.3	4.7	10.0	11.7	10.3	10.3
REBOUNDER (PICK-W43)	2.7	14.7	15.0	1.0	14.0	14.3	13.0	12.0	1.0	11.7	12.3	10.0	10.3
SALTILLO (PST-5SALT)	3.3	14.0	14.0	0.7	14.0	14.3	11.7	11.3	2.3	10.7	12.0	9.0	10.3
SCREAMER LS (PPG-TF-148)	2.0	15.0	15.3	1.0	13.7	14.0	13.3	13.7	7.0	12.3	11.7	10.7	10.3
SUPERSONIC (PPG-TF-170)	2.3	13.3	14.3	1.0	13.7	13.0	12.3	12.3	1.7	11.3	12.0	9.7	10.3
SWAGGER (PST-5RO5)	1.7	13.0	13.7	1.0	15.0	13.7	13.0	13.3	1.3	10.7	12.0	8.7	10.3
TEMPTATION (OR-21)	6.7	13.7	14.0	1.7	14.0	13.3	12.3	13.3	5.0	12.7	12.7	11.0	10.3
TRINITY (BIZEM)	3.3	14.3	14.3	2.3	15.0	14.3	14.0	13.7	2.0	12.0	12.0	10.3	10.3
VERT (ATF 1612)	5.3	14.3	13.7	1.7	14.0	13.7	12.0	13.0	2.0	11.7	12.7	10.0	10.3
AVENGER II (PPG-TF-156)	1.7	15.0	15.0	1.3	13.7	15.0	13.0	13.5	0.3	11.5	11.5	9.5	10.0
IS-TF 276 M2	4.0	15.0	15.3	1.7	14.7	13.3	13.3	13.0	1.0	11.7	12.0	9.7	10.0
PARAMOUNT (PPG-TF-137)	2.3	14.3	13.7	1.0	14.0	13.0	12.7	12.3	1.7	11.3	11.0	9.7	10.0
PPG-TF-138	1.3	13.3	14.0	1.3	14.3	14.3	12.7	12.7	0.3	9.7	11.7	9.7	10.0
PSG-TT4	8.0	14.0	12.7	1.0	14.7	13.3	12.3	12.0	2.0	10.7	11.3	9.3	10.0
RAD-TF-89	3.7	14.0	13.3	1.3	14.0	14.7	13.0	13.0	1.7	13.0	11.7	11.3	10.0

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN FOR SPREAD STUDY AT LOGAN, UT 1/
2014-16 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/
HOLE DIAMETER MEASURED IN SQ CM

NAME	RHIZOME	HOLE 1	HOLE 2	RHIZOME	HOLE 1	HOLE 2	HOLE 1	HOLE 2	RHIZOME	HOLE 1	HOLE 2	HOLE 1	HOLE 2
	COUNTS	DIAMETER	DIAMETER	COUNTS	DIAMETER	DIAMETER	DIAMETER	DIAMETER	COUNTS	DIAMETER	DIAMETER	DIAMETER	DIAMETER
	2014	SPR 14	SPR 14	2015	SPR 15	SPR 15	FALL 15	FALL 15	2016	SPR 16	SPR 16	FALL 16	FALL 16
TERRANO	2.0	14.7	15.0	5.0	13.3	14.0	14.0	13.0	2.0	10.7	10.3	10.7	10.0
XTENDER (PPG-TF-139)	0.3	14.0	13.7	2.3	13.0	13.3	12.3	11.7	0.7	11.7	10.3	9.3	10.0
DIABLO (IS-TF 330)	1.3	14.0	12.7	1.7	14.7	13.7	12.3	12.7	3.3	11.0	11.3	10.7	9.7
FRONTLINE (EXP TF-09)	7.0	14.3	14.3	0.7	13.3	14.3	12.0	13.0	1.7	12.0	11.7	10.0	9.7
OLYMPUS (RAD-TF-88)	3.0	15.3	14.7	1.3	14.3	14.7	14.7	13.3	0.0	12.7	10.7	12.3	9.7
ROWDY (SRX-TPC)	2.7	12.7	14.3	1.7	14.0	13.7	13.7	12.3	2.3	10.7	10.0	10.0	9.7
AMITY (CCR2)	5.0	13.3	14.0	0.3	13.0	13.7	12.3	13.0	0.3	11.0	10.3	10.7	9.3
DYNAMITE LS (PPG-TF-145)	4.0	15.0	16.0	2.0	13.7	14.3	13.0	13.7	0.7	11.7	12.3	10.3	9.3
JS 809	5.0	14.0	13.7	2.3	14.0	13.3	13.3	10.7	3.7	10.3	10.7	11.0	9.3
JS 819	2.7	14.0	13.7	0.7	14.3	14.0	13.3	13.7	2.0	10.3	10.3	11.0	9.3
MARAUDER	2.0	14.3	15.3	1.0	12.7	13.7	13.7	13.0	2.0	13.3	11.7	10.3	9.3
RAPTOR III (ZW 44)	5.0	14.0	15.0	1.3	14.0	14.0	13.0	13.0	2.0	10.7	12.0	9.3	9.3
STANDOUT (IS-TF 308 SEL)	1.3	14.3	13.7	1.7	14.0	14.7	14.0	13.0	1.7	11.7	12.0	9.0	9.3
TECHNIQUE (RZ2)	2.0	15.3	13.7	1.0	13.3	14.0	13.3	11.3	0.7	12.3	11.3	11.7	9.3
WICHITA (PPG-TF-151)	2.7	14.0	13.7	5.0	13.3	14.3	12.7	13.0	8.3	10.0	11.7	9.0	9.3
FAITH	2.7	13.7	14.7	2.3	14.0	13.7	13.0	12.0	1.7	11.0	10.7	10.7	9.0
MEMPHIS (GO-DFR)	5.3	15.0	13.7	1.0	14.0	13.7	12.3	13.3	1.3	12.0	10.7	10.7	9.0
REGENERATE	2.7	14.0	14.7	1.3	13.3	13.7	12.7	13.7	2.3	12.0	11.7	9.3	9.0
TITANIUM 2LS (PPG-TF-152)	1.7	13.0	14.3	1.7	14.0	14.3	12.0	12.7	6.0	10.7	12.3	9.3	9.0
204 RES. BLK4	3.0	14.7	13.3	0.7	13.3	14.7	12.3	13.7	2.3	13.0	11.0	9.3	8.7
ARES (PPG-TF-142)	7.7	16.0	14.7	1.0	14.7	16.0	14.0	14.0	5.3	12.7	11.3	11.3	8.7
F711	1.7	14.0	15.3	1.7	14.0	13.7	14.3	12.7	0.0	11.7	11.3	11.3	8.7
INSPIRATION (PST-R5NW)	6.3	13.7	13.3	1.3	14.0	14.7	12.3	12.7	4.0	12.3	11.0	10.0	8.7
THOR (PPG-TF-157)	2.7	14.0	13.0	1.0	14.3	13.0	12.0	11.0	1.0	11.3	11.0	11.0	8.7
LEONARDO (LTP-FSD)	5.7	12.7	13.7	2.3	13.0	13.3	11.3	11.3	1.0	12.0	11.3	9.3	8.3
MICHELANGELO (LTP-F5DPDR)	5.0	13.3	13.0	1.7	14.0	14.0	11.7	12.0	3.0	10.7	10.7	9.0	8.3
LSD VALUE	8.9	6.5	5.8	6.0	5.6	4.7	5.5	5.6	4.6	9.8	10.5	6.0	6.6
C.V. (%)	86.5	9.0	9.5	101.7	8.1	7.3	9.4	9.8	106.4	14.7	14.7	14.6	15.0

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.

3/ RHIZOME COUNTS WERE EVALUATED BY REMOVING TWO PLUGS FROM EACH PLOT AND COUNTING VISIBLE RHIZOMES. LATERAL SPREAD FROM TILLERING WAS EVALUATED BY THE INITIAL RESTRICTION OR REMOVAL OF TALL FESCUE WITHIN TWO PLUGS PER PLOT, THEN USING DIGITAL IMAGES TO MEASURE HOLE SIZE OVER TIME. AS MILLER HOLE SIZE INDICATED GREATER TILLERING.

TABLE 19.

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	CT1	GA1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	TN1	VA1	MEAN
TEMPTATION (OR-21)	8.0	7.9	8.2	6.4	6.7	6.7	7.7	7.0	6.6	8.3	6.1	8.0	8.6	6.8	7.7	7.3	7.3
DIABLO (IS-TF 330)	8.2	8.0	7.7	6.3	7.5	6.5	7.5	6.6	6.7	7.9	6.3	8.7	8.2	6.3	8.1	7.3	7.3
ARES (PPG-TF-142)	7.7	7.9	8.3	6.3	7.4	6.8	7.5	6.9	6.8	8.1	6.3	8.3	7.4	6.7	7.8	6.3	7.3
IS-TF 272	8.0	8.0	8.0	6.2	7.2	6.5	7.5	6.9	6.7	7.9	6.3	8.3	8.2	6.8	7.7	7.0	7.3
FOXHOUND (IS-TF 284 M2)	8.0	7.8	8.0	6.2	7.1	6.6	7.3	6.6	6.7	8.0	6.1	8.7	8.4	6.8	7.9	7.0	7.2
K12-05	8.0	7.9	7.8	6.5	6.8	6.9	7.3	6.9	6.7	7.8	6.2	8.7	8.0	6.7	7.5	7.7	7.2
THUNDERSTRUCK (TD1)	8.0	7.9	7.3	6.6	6.9	6.6	7.2	6.6	6.7	7.9	6.3	9.0	8.1	6.7	7.9	6.7	7.2
UNITUS (IS-TF 289)	8.2	8.0	7.7	6.6	7.1	6.2	7.7	6.4	6.9	7.9	6.3	7.7	7.7	6.7	7.5	7.0	7.2
KINGDOM (DB1)	7.8	8.0	7.5	6.3	7.3	6.4	7.4	6.2	6.8	7.9	6.2	8.7	8.0	6.7	8.0	6.7	7.2
RAD-TF-83	7.8	7.9	7.1	6.4	7.1	6.7	7.9	6.2	6.6	7.9	6.2	8.3	8.2	6.7	7.5	7.0	7.1
CAESAR (TY 10)	8.0	7.7	7.5	6.4	6.8	6.5	7.7	6.3	6.6	8.0	6.3	7.7	8.0	6.7	7.7	7.3	7.1
TURFWAY (IS-TF 282 M2)	7.5	8.0	7.3	6.6	6.9	6.5	7.6	6.2	6.4	7.9	6.3	8.7	8.1	6.5	7.7	7.0	7.1
FAYETTE (IS-TF 291)	7.5	8.0	7.3	6.5	7.5	6.3	7.6	6.1	6.5	7.9	6.3	8.7	7.8	6.7	7.7	7.0	7.1
DYNAMITE LS (PPG-TF-145)	7.5	7.8	7.4	6.4	7.0	6.7	7.3	6.9	6.4	7.8	6.4	7.7	7.8	6.7	7.5	7.0	7.1
HOUND08 (IS-TF 307 SEL)	7.8	7.8	7.5	6.3	7.2	6.3	7.4	6.5	6.7	7.9	6.1	7.3	7.9	6.3	7.9	7.0	7.1
FRONTLINE (EXP TF-09)	7.3	7.9	7.6	6.2	6.9	6.5	7.5	6.4	6.5	8.1	6.3	8.7	7.7	6.5	7.3	7.0	7.1
RHIZING MOON (IS-TF 305 SEL)	7.7	7.9	7.5	6.3	6.9	6.4	7.4	6.5	6.5	7.7	6.3	7.0	7.8	6.3	7.9	6.7	7.1
THOR (PPG-TF-157)	7.5	7.8	7.7	6.1	7.3	6.5	7.3	6.5	6.3	7.8	6.1	7.3	7.7	6.7	7.5	7.0	7.0
RAD-TF-89	7.7	7.7	7.1	6.4	7.3	6.7	7.2	6.3	6.4	7.7	6.3	8.0	7.6	6.8	7.3	7.0	7.0
TRENDING (IS-TF 269 SEL)	7.3	7.8	7.3	6.5	6.8	6.3	7.6	6.0	6.4	7.7	6.3	7.7	7.9	6.7	7.4	7.3	7.0
JS 818	7.5	7.9	7.9	5.8	6.6	6.2	6.9	6.5	6.5	7.9	6.1	7.7	7.9	6.5	7.5	7.3	7.0
MEMPHIS (GO-DFR)	7.0	8.0	7.1	6.5	6.8	6.7	7.5	6.1	6.3	7.7	6.2	7.0	7.3	6.7	7.7	7.7	7.0
OLYMPUS (RAD-TF-88)	7.5	7.8	7.0	6.5	6.5	6.7	7.4	6.2	6.3	7.6	6.3	8.7	7.5	6.8	7.5	7.3	7.0
FIRECRACKER SLS (PPG-TF-105)	7.5	7.9	7.3	6.4	7.1	6.7	7.4	6.1	6.3	7.7	6.1	7.0	7.3	6.5	7.5	6.7	6.9
CROSSFIRE 4 (IS-TF 310 SEL)	7.5	8.0	7.5	6.4	6.8	6.1	7.3	6.3	6.5	7.7	6.1	7.3	7.1	6.7	7.7	7.0	6.9
NIGHTCRAWLER (IS-TF 285)	7.3	8.0	7.1	6.3	6.4	6.5	7.3	6.2	6.2	7.8	6.3	7.7	7.5	6.7	7.7	7.0	6.9
B23	7.2	7.6	6.9	6.2	7.2	6.6	7.4	6.3	6.5	7.7	6.3	7.3	7.3	6.5	7.7	7.0	6.9
RAD-TF-92	7.3	7.7	7.0	6.5	6.6	6.4	7.3	6.3	6.5	7.9	6.1	7.0	7.3	6.7	7.6	7.3	6.9
TEMPLE (DZ1)	7.5	8.0	6.7	6.5	7.3	6.2	7.2	6.1	6.4	7.9	6.1	7.0	7.1	6.5	7.9	7.0	6.9
TITANIUM 2LS (PPG-TF-152)	7.3	8.0	7.0	6.7	6.8	6.2	7.5	6.2	6.3	7.9	6.1	6.7	7.0	6.7	7.5	7.0	6.9
IS-TF 276 M2	7.2	7.7	7.2	6.2	7.0	6.3	7.3	6.2	6.2	7.8	6.2	7.0	7.6	6.3	7.7	6.7	6.9
STANDOUT (IS-TF 308 SEL)	7.5	7.8	6.9	6.5	6.8	6.5	7.5	6.2	6.3	7.9	5.9	6.3	7.1	6.7	7.7	7.7	6.9
K12-13	8.0	8.0	7.4	6.3	6.8	6.1	7.3	6.0	6.6	7.7	6.3	6.7	7.2	6.8	7.4	6.3	6.9
REFLECTION (U45)	7.3	7.5	7.0	6.4	7.3	6.3	7.3	6.1	6.3	7.7	6.2	7.0	6.8	7.0	7.9	7.0	6.9
BAR FA 121091	7.3	7.9	7.6	5.7	6.5	6.5	7.1	6.2	6.2	7.7	6.2	6.0	7.8	6.5	7.3	7.0	6.9
REGENERATE	7.0	8.0	6.7	6.3	7.3	6.3	7.4	5.9	6.2	7.6	6.1	7.3	7.3	6.5	7.5	7.0	6.9
JS 809	7.3	8.0	7.1	6.2	6.7	6.1	7.1	6.2	6.3	7.7	6.3	7.3	7.5	6.5	7.3	6.3	6.9
HOVER (BURL TF-69)	7.0	7.3	7.3	6.3	6.9	6.3	7.4	6.1	6.2	7.6	6.1	7.3	7.4	6.5	7.5	.	6.9
JS 916	7.3	7.9	6.9	6.4	7.0	6.1	7.3	6.4	6.2	7.8	6.2	6.7	6.9	7.0	7.4	6.7	6.9
PPG-TF-115	7.0	7.7	7.1	6.3	7.5	6.5	6.9	6.1	6.3	7.8	6.0	7.0	6.9	6.7	7.5	7.0	6.9
TRAVERSE 2 SRP (W45)	7.2	7.4	6.4	6.2	7.7	5.9	7.3	6.8	6.4	7.7	5.9	7.0	6.9	6.7	7.7	7.0	6.8
BAR FA 121095	7.5	7.6	7.4	6.6	6.4	6.2	7.0	6.3	6.5	7.6	5.9	7.0	7.0	6.3	7.6	7.0	6.8
REBOUNDER (PICK-W43)	7.3	7.7	6.9	6.3	7.6	6.3	7.5	6.0	6.2	7.4	6.1	6.7	6.6	6.7	7.6	7.0	6.8
4TH MILLENNIUM SRP (U43)	6.8	7.7	6.6	6.4	7.3	6.1	7.3	6.1	6.2	7.7	6.1	7.0	7.0	6.5	7.9	7.3	6.8
W41	7.3	7.7	6.7	6.3	7.3	6.4	7.3	5.9	6.2	7.6	6.0	6.3	6.9	6.5	7.7	7.0	6.8
JS 819	7.0	7.8	7.1	6.2	6.8	6.1	6.6	6.5	6.3	7.9	6.1	7.7	7.3	6.3	7.1	7.0	6.8

TABLE 19.
(CONT'D)GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	CT1	GA1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	TN1	VA1	MEAN
FESNOVA	7.3	8.0	6.5	6.2	7.3	6.6	6.9	5.8	6.3	7.8	6.1	5.7	6.9	6.7	7.6	6.7	6.8
FAITH	7.0	7.3	6.5	6.4	7.0	6.4	7.5	6.1	6.3	7.5	6.1	7.0	7.3	6.5	7.5	6.7	6.8
BULLSEYE	7.7	7.5	6.7	6.2	7.2	6.2	7.2	6.0	6.2	7.8	6.1	7.0	7.1	6.7	7.5	7.0	6.8
WICHITA (PPG-TF-151)	6.8	7.4	6.7	6.5	7.0	6.5	7.3	6.2	6.1	7.9	6.1	5.7	6.7	6.8	7.5	7.3	6.8
PSG-PO1	7.3	7.8	6.5	6.5	7.3	6.6	6.9	6.1	6.3	7.9	6.0	6.3	6.4	6.5	7.4	7.0	6.8
XTENDER (PPG-TF-139)	7.3	7.4	6.4	6.5	7.0	6.4	7.5	5.8	6.3	7.7	6.0	6.7	6.7	6.5	7.7	7.0	6.8
AMITY (CCR2)	7.3	7.4	6.4	6.5	7.4	6.5	7.1	6.0	6.2	7.5	6.1	7.0	6.7	6.3	7.3	7.0	6.8
FIREBIRD 2	7.2	7.8	6.5	6.5	6.9	6.1	7.1	6.0	6.3	7.7	6.0	7.0	6.7	6.5	7.5	6.7	6.8
RAPTOR III (ZW 44)	7.2	8.0	6.3	6.5	7.7	6.3	7.0	6.0	6.1	7.4	5.8	7.3	6.5	6.7	7.8	6.3	6.7
IS-TF 311	7.2	7.8	6.7	6.2	6.8	6.3	7.2	6.0	6.2	7.7	5.9	7.0	6.6	6.2	7.5	7.7	6.7
FIREWALL (PSG-WE1)	6.8	7.8	6.5	6.2	6.8	6.3	7.2	6.1	6.3	7.5	6.1	6.0	6.8	6.7	7.6	6.7	6.7
ROWDY (SRX-TPC)	7.2	8.0	6.7	6.4	6.9	6.2	7.2	5.7	6.3	7.6	6.1	6.7	6.5	6.3	7.5	7.0	6.7
PPG-TF-138	7.2	7.8	6.4	6.4	7.0	6.3	7.0	6.0	6.2	7.6	6.2	6.7	6.7	6.2	7.3	7.0	6.7
TRINITY (BIZEM)	7.2	7.7	6.3	6.3	7.4	6.3	6.9	6.0	6.2	7.6	6.1	6.7	6.5	6.7	7.4	7.0	6.7
SUPERSONIC (PPG-TF-170)	7.0	7.7	6.6	6.4	6.9	6.4	7.4	6.0	6.2	7.3	6.1	6.7	6.5	6.3	7.5	7.3	6.7
HOT ROD (BURL TF-136)	7.2	8.0	5.9	6.1	7.1	6.5	7.3	5.9	6.2	7.6	6.0	6.7	6.9	6.3	7.4	7.3	6.7
TERRANO	7.3	7.5	7.0	6.5	6.9	6.4	6.9	6.0	6.1	7.6	6.1	6.3	6.5	6.5	7.3	7.0	6.7
JS 825	7.0	7.6	7.1	6.3	6.4	5.9	6.9	6.0	6.2	7.7	6.1	6.7	7.3	6.0	7.3	6.7	6.7
GTO (BURL TF-2)	6.8	7.9	6.1	6.4	7.0	6.4	7.0	6.3	6.2	7.5	5.9	6.7	6.9	6.2	7.3	7.0	6.7
ROCKWELL (LTP-TWUU)	7.3	7.7	6.6	6.2	7.5	6.4	7.1	5.7	6.1	7.5	5.9	6.3	6.8	6.3	7.0	7.0	6.7
PST-5DZP	7.0	7.6	6.8	6.2	7.0	6.1	6.8	6.1	6.3	7.6	6.3	6.3	6.9	6.2	7.1	6.0	6.7
VALKYRIE LS (PPG-TF-172)	6.7	7.7	6.7	6.4	6.7	6.2	7.1	6.0	6.1	7.7	5.9	5.7	6.7	6.7	7.4	7.3	6.7
PARAMOUNT (PPG-TF-137)	7.5	7.7	6.5	6.2	6.8	6.2	7.3	5.8	6.3	7.5	6.1	6.7	6.2	6.5	7.3	7.3	6.7
IS-TF-287	7.0	8.0	6.6	6.2	6.8	6.1	6.8	5.9	6.1	7.3	6.2	6.3	7.1	6.2	7.4	6.7	6.7
RHAMBLER 2 SRP (LSD)	6.8	7.5	6.4	6.5	6.9	6.1	7.4	6.1	6.3	7.6	5.8	6.0	6.3	6.0	7.5	7.3	6.7
PSG-8BP2	7.0	7.8	6.6	5.9	6.8	5.7	7.1	6.0	6.1	7.6	6.1	6.0	7.1	6.2	7.5	6.7	6.7
BAR FA 121089	7.0	8.0	6.3	5.9	6.7	6.3	7.0	5.9	6.2	7.7	6.1	6.3	6.9	6.0	7.2	7.3	6.7
BLACK TAIL (PPG-TF-150)	7.0	7.3	6.5	6.3	7.2	6.5	6.9	5.9	6.1	7.5	5.9	6.3	6.6	6.3	7.4	7.0	6.6
HEMI	7.0	7.8	6.3	6.4	6.8	6.3	6.9	5.9	6.2	7.5	6.0	7.3	6.4	6.5	7.2	7.3	6.6
F711	7.2	7.7	6.1	5.9	7.3	6.1	7.3	5.9	6.1	7.5	6.1	6.3	6.5	6.3	7.5	7.3	6.6
MET-3	7.5	7.6	5.9	6.3	6.8	6.5	6.9	5.9	6.3	7.5	6.0	6.3	6.6	6.5	7.3	7.0	6.6
MAESTRO (T31)	7.0	7.7	6.5	6.1	7.0	6.2	7.1	5.8	6.2	7.5	6.1	6.3	6.1	6.3	7.3	7.3	6.6
FALCON IV	6.8	7.9	6.3	6.1	6.8	6.1	7.2	6.1	6.1	7.7	5.9	6.3	6.1	6.5	7.1	.	6.6
MET 1	7.0	7.7	5.7	6.5	7.2	5.9	7.3	5.8	6.1	7.4	6.0	6.7	6.3	7.5	6.7	6.6	6.6
AVENGER II (PPG-TF-156)	7.2	7.3	6.3	6.3	6.7	6.5	7.1	5.9	6.2	7.4	5.8	6.7	6.5	6.5	7.1	7.7	6.6
LEONARDO (LTP-FSD)	7.2	7.8	6.3	6.4	7.3	6.1	6.9	5.9	6.3	7.6	6.1	5.0	5.9	6.0	7.2	7.0	6.6
PPG-TF-135	7.0	7.7	5.9	6.4	7.5	6.3	7.0	5.7	6.2	7.6	5.6	6.7	6.2	6.7	7.3	7.0	6.6
GRANDE 3	7.2	7.4	6.6	6.1	6.9	6.0	7.1	5.9	5.9	7.4	6.0	5.7	6.7	6.5	7.1	7.0	6.6
K12-MCD	7.2	7.9	6.6	6.4	6.8	6.1	6.9	5.7	6.2	7.6	6.0	5.7	5.5	6.2	7.5	7.0	6.6
VERT (ATF 1612)	7.0	7.3	6.3	6.1	6.6	6.3	6.9	5.7	6.2	7.7	5.9	6.3	6.4	6.3	7.4	7.0	6.6
PST-5MVD	7.2	7.9	6.1	6.2	6.8	6.6	7.0	5.7	6.0	7.5	5.9	5.7	5.9	6.5	7.2	7.0	6.6
MICHELANGELO (LTP-F5DPDR)	7.0	7.6	6.4	6.3	7.1	6.2	7.1	5.6	6.1	7.5	5.7	5.7	5.9	6.3	7.5	7.3	6.6
FALCON V	7.3	7.7	5.9	6.3	7.1	6.3	7.3	5.7	6.1	7.5	6.1	5.0	6.1	6.5	7.1	.	6.6
WARHAWK	7.0	7.7	6.8	6.1	6.1	6.2	6.6	6.0	6.2	7.7	5.7	6.0	7.0	6.0	7.0	6.3	6.6
ANNIHILATOR	7.0	7.8	6.4	6.2	6.3	6.3	6.5	5.8	6.1	7.8	5.9	6.0	6.9	6.2	7.1	6.7	6.6
INSPIRATION (PST-R5NW)	6.8	7.9	6.2	6.2	7.1	5.9	7.1	6.0	6.1	7.6	6.0	5.0	5.7	6.3	7.1	6.7	6.5
EMBRACE (PST-5EV2)	7.2	7.7	6.0	6.5	7.2	6.0	6.8	5.8	6.2	7.2	5.7	6.0	5.8	6.2	7.2	7.0	6.5

TABLE 19.
(CONT'D)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	CT1	GA1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	TN1	VA1	MEAN
SCREAMER LS (PPG-TF-148)	6.8	7.8	5.8	6.3	7.4	6.1	7.3	5.5	6.0	7.3	5.5	6.0	6.1	6.5	7.1	7.0	6.5
TECHNIQUE (RZ2)	7.0	7.8	5.7	6.1	7.1	5.9	7.2	5.6	6.2	7.3	6.0	6.3	5.6	6.3	7.3	6.7	6.5
REBEL V (ATF 1736)	6.8	7.5	5.7	6.3	6.9	6.5	7.3	5.7	6.1	7.2	5.9	5.3	6.0	6.2	6.7	7.0	6.5
CATALYST	6.5	7.9	5.9	5.9	7.3	6.1	7.2	5.8	6.3	7.4	5.8	6.0	5.1	6.3	7.1	7.3	6.4
MARAUDER	7.2	7.7	5.9	6.3	6.4	6.3	6.9	5.5	6.2	7.7	5.6	5.3	6.1	6.0	6.9	7.3	6.4
COMP. RES. SST	6.7	7.3	6.2	6.3	6.4	5.8	6.1	6.0	6.2	8.1	5.7	6.3	5.9	6.3	7.0	7.3	6.4
SWAGGER (PST-5R05)	7.0	7.7	6.3	6.1	6.4	5.8	6.5	5.9	6.2	7.5	5.9	5.0	5.7	6.5	7.1	7.0	6.4
PPG-TF-169	6.8	7.8	5.8	6.1	7.2	6.3	7.0	5.5	6.0	7.2	5.7	5.7	5.5	6.5	7.2	7.3	6.4
PSG-GSD	6.3	7.8	6.0	5.9	6.8	6.1	6.9	5.9	6.2	7.4	6.0	5.3	5.3	6.0	7.1	7.0	6.4
PSG-TT4	7.0	7.9	6.3	6.0	6.7	5.9	6.4	5.5	5.9	7.3	5.9	4.7	5.8	6.5	7.0	7.0	6.4
SALTILLO (PST-5SALT)	6.5	7.2	5.9	6.1	7.0	6.1	6.5	5.9	6.1	7.5	5.7	4.3	5.7	6.0	7.2	7.0	6.4
PST-5BP0	6.7	7.7	5.9	6.4	6.6	5.5	6.7	5.3	6.1	7.4	5.7	4.3	5.5	6.3	7.3	7.0	6.3
BLOODHOUND (MET 6 SEL)	6.8	7.3	5.7	6.0	7.1	5.9	6.9	5.5	6.1	7.0	5.9	5.7	5.4	6.2	7.0	7.3	6.3
PST-5BRK	6.7	7.7	6.0	6.1	6.8	6.1	6.7	5.3	5.8	7.5	5.7	4.0	5.0	6.0	7.3	7.0	6.3
AQUADUCT	6.7	8.0	6.1	5.7	6.1	5.9	6.5	5.7	5.6	7.4	5.6	5.0	6.1	6.2	6.5	8.0	6.3
MERIDIAN (PST-5GRB)	7.2	7.4	5.4	6.3	6.3	5.5	6.7	5.5	6.1	7.5	5.7	5.0	5.9	6.3	6.9	7.0	6.3
RAIN DANCE (PST-5SDT)	6.5	7.4	5.1	6.2	6.9	5.7	6.7	5.9	6.1	7.5	5.8	4.7	5.4	5.8	6.7	7.0	6.3
ATF 1704	6.8	7.2	5.7	6.3	6.5	6.0	6.7	5.5	5.9	7.2	5.5	4.7	5.6	5.7	7.2	6.7	6.2
ATF 1754	7.0	7.4	5.4	6.1	7.0	5.9	6.7	5.7	6.0	7.1	5.4	6.0	5.3	5.8	6.8	7.3	6.2
204 RES. BLK4	6.7	7.2	5.3	6.0	6.2	5.7	6.5	5.3	6.1	7.7	5.5	4.7	5.1	6.2	6.7	7.3	6.1
PST-5EX2	6.5	7.8	5.4	6.0	6.6	5.6	6.5	4.9	5.6	6.8	5.7	3.0	3.9	5.5	6.7	6.0	5.9
BAR FA 120878	5.7	8.0	4.8	5.9	6.0	5.5	5.6	5.3	5.0	6.8	5.2	2.3	3.9	5.5	6.2	7.7	5.6
KY-31	3.3	6.0	2.2	4.7	5.1	3.5	3.9	3.6	4.0	4.5	3.6	1.0	1.0	4.2	3.7	7.0	3.8
LSD VALUE	0.7	0.7	1.2	1.0	1.1	1.0	0.9	1.0	0.5	0.6	0.7	1.3	1.4	1.0	1.0	0.8	0.3
C.V. (%)	6.5	5.7	11.0	8.9	9.9	10.4	7.9	10.3	4.9	4.9	7.4	12.7	13.1	11.0	8.2	7.5	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 20.

 SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
 2013-17 DATA

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

NAME	CA3	CT1	IA1	IL1	IN1	MS1	NC1	NE1	NJ1	NJ2	OK1	PA1	TN1	MEAN
PPG-TF-169	5.7	5.9	5.5	6.5	3.7	6.8	7.6	4.1	6.9	7.3	5.3	4.3	5.7	6.1
ROCKWELL (LTP-TWUU)	5.8	5.7	5.8	6.2	4.0	6.2	7.4	4.7	7.0	6.3	3.7	4.7	5.0	6.1
SCREAMER LS (PPG-TF-148)	6.2	5.4	6.0	6.2	4.0	6.6	7.1	4.4	6.9	6.3	4.3	4.0	4.3	6.0
PST-5EX2	5.5	5.2	5.5	6.3	5.0	6.2	7.1	4.6	7.6	7.3	4.0	4.0	3.7	6.0
FALCON V	6.2	5.4	5.7	6.7	5.0	6.2	7.3	4.3	6.8	6.3	4.3	3.0	4.7	6.0
GRANDE 3	4.7	5.7	4.8	6.2	4.0	6.1	7.6	4.7	7.1	7.3	4.3	4.3	5.0	6.0
KY-31	6.0	5.9	4.0	6.1	6.0	5.4	6.1	3.9	8.8	7.0	4.7	4.7	4.7	6.0
4TH MILLENNIUM SRP (U43)	6.0	5.3	5.7	6.0	4.3	6.3	7.6	4.6	6.7	6.3	5.7	4.0	5.0	6.0
CATALYST	6.2	4.8	5.8	6.6	5.0	6.4	7.7	4.2	6.5	6.0	5.0	3.3	5.0	6.0
REBOUNDER (PICK-W43)	6.0	5.6	6.0	6.3	4.3	6.3	7.2	4.4	6.7	7.3	4.3	3.7	5.0	6.0
GTO (BURL TF-2)	4.8	5.9	5.5	6.1	4.0	6.3	7.6	4.4	6.7	6.3	4.3	3.0	5.0	5.9
REGENERATE	6.8	4.9	5.8	6.0	3.7	6.3	7.0	4.5	6.6	6.0	4.7	4.0	4.0	5.9
MET 1	5.2	5.6	5.7	6.1	4.0	6.6	7.0	4.6	6.5	6.3	4.3	2.5	5.3	5.9
SUPERSONIC (PPG-TF-170)	5.5	5.0	5.8	6.0	3.7	6.3	7.1	4.7	6.6	6.0	4.7	3.0	4.3	5.9
FAITH	5.7	5.8	5.2	6.1	4.7	6.3	7.8	4.6	6.3	5.7	4.3	3.3	4.7	5.9
AMITY (CCR2)	5.0	5.3	5.7	6.1	4.0	6.3	7.1	4.5	6.7	6.0	4.0	4.3	4.3	5.8
F711	5.3	5.6	5.7	6.1	4.3	6.4	7.6	4.3	6.1	6.3	5.0	3.0	5.7	5.8
FALCON IV	5.8	5.3	5.7	6.1	3.7	6.0	7.2	4.5	6.5	4.3	4.3	3.0	5.0	5.8
MAESTRO (T31)	6.0	5.3	5.5	6.1	4.0	6.4	7.2	4.5	6.2	5.3	4.0	4.0	4.7	5.8
W41	5.3	5.3	5.8	6.3	4.0	6.2	7.2	4.6	5.7	5.0	4.7	3.3	5.3	5.8
PSG-GSD	5.5	5.1	5.3	6.0	3.7	6.1	7.1	4.5	6.5	5.0	3.7	3.0	4.7	5.8
TRINITY (BIZEM)	6.2	4.7	6.0	5.7	3.3	6.3	7.4	4.6	6.5	5.3	3.3	3.0	4.3	5.8
AVENGER II (PPG-TF-156)	5.0	5.0	5.7	5.9	3.0	6.3	7.4	4.3	6.6	5.7	4.3	3.3	5.0	5.8
MICHELANGELO (LTP-F5DPDR)	6.2	5.7	5.8	5.9	4.0	6.4	7.1	4.4	5.9	4.7	4.3	3.0	5.0	5.8
MET-3	6.2	5.2	5.5	5.9	3.3	6.3	7.3	4.3	6.1	6.3	4.3	3.7	4.7	5.7
BULLSEYE	5.8	5.8	5.5	5.7	4.7	5.8	7.0	4.6	5.9	5.7	4.7	3.7	4.7	5.7
TECHNIQUE (RZ2)	6.3	5.1	6.0	5.7	3.7	6.1	7.4	4.4	6.4	5.3	4.0	2.0	4.3	5.7
RAIN DANCE (PST-5SDT)	5.3	5.2	4.8	5.9	4.3	5.8	7.4	4.5	6.5	5.7	4.0	3.3	4.3	5.7
THOR (PPG-TF-157)	5.7	5.2	6.0	5.9	3.3	6.1	7.1	4.5	5.7	3.7	5.0	2.3	5.0	5.7
IS-TF 311	6.0	5.3	5.7	6.5	3.7	6.0	7.2	4.4	5.7	5.3	3.7	3.0	4.3	5.7
CAESAR (TY 10)	5.3	5.7	5.5	6.0	3.3	6.3	7.1	4.6	5.7	4.7	4.0	3.5	4.7	5.7
FAYETTE (IS-TF 291)	5.0	5.6	5.5	6.1	3.7	6.4	7.1	4.4	5.7	5.3	5.3	3.3	4.7	5.7
PSG-PO1	5.5	4.3	6.0	5.7	3.7	6.2	7.3	4.4	6.2	6.0	4.0	3.3	5.3	5.7
PPG-TF-135	5.5	5.1	5.8	5.6	3.3	6.1	7.3	4.5	6.4	4.7	4.7	3.0	4.3	5.7
LEONARDO (LTP-FSD)	5.8	4.6	5.5	5.8	3.7	6.7	7.2	4.4	6.3	5.0	4.3	2.7	5.3	5.7
VERT (ATF 1612)	5.0	5.1	5.0	6.0	4.0	6.0	6.8	4.5	6.0	6.0	4.0	4.3	5.0	5.7
ATF 1704	5.3	5.1	5.2	5.5	3.7	5.8	7.2	4.3	6.8	5.3	4.3	3.7	5.3	5.7
BLACK TAIL (PPG-TF-150)	5.3	4.7	5.3	5.9	3.7	6.1	6.8	4.5	6.1	5.3	4.0	4.0	4.7	5.7
REBEL V (ATF 1736)	5.5	5.3	5.2	5.9	4.0	6.2	6.8	4.3	6.2	6.3	4.0	3.0	5.0	5.6
BLOODHOUND (MET 6 SEL)	5.0	4.3	5.5	6.0	4.0	6.5	7.1	4.5	6.2	5.7	4.3	3.3	4.7	5.6
FIREWALL (PSG-WE1)	5.2	4.7	5.5	5.9	4.3	6.1	7.2	4.5	5.7	5.7	4.7	3.7	5.0	5.6
ATF 1754	5.5	4.6	5.5	5.8	3.7	5.9	7.2	4.3	6.6	6.0	4.0	2.3	5.0	5.6
RAPTOR III (ZW 44)	5.5	4.4	5.7	5.8	4.0	6.3	6.8	4.6	6.2	5.3	4.3	2.3	4.7	5.6
PST-5MVD	5.7	5.3	5.8	5.7	3.3	5.7	7.1	4.4	6.5	5.0	4.0	4.0	4.7	5.6
RAD-TF-83	5.8	4.4	5.3	5.9	3.7	6.1	7.0	4.5	5.3	4.7	4.0	2.5	4.3	5.6
EMBRACE (PST-5EV2)	6.0	5.0	5.0	6.0	4.0	6.3	6.9	4.2	5.7	5.7	4.0	3.3	4.3	5.6

TABLE 20.
(CONT'D)

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	CA3	CT1	IA1	IL1	IN1	MS1	NC1	NE1	NJ1	NJ2	OK1	PA1	TN1	MEAN
FIREBIRD 2	5.7	4.6	5.7	5.9	3.3	6.0	6.9	4.5	5.9	5.3	4.0	2.7	4.7	5.6
TRAVERSE 2 SRP (W45)	5.7	5.2	5.8	5.9	3.7	6.4	7.3	4.4	5.6	4.7	4.0	3.0	4.3	5.6
WICHITA (PPG-TF-151)	5.7	4.7	5.5	5.5	3.3	6.3	7.0	4.6	5.7	4.7	3.7	3.0	4.7	5.6
PST-5BP0	6.0	4.9	5.3	5.9	3.3	5.9	7.3	4.5	5.9	5.0	3.7	3.0	4.7	5.6
B23	5.7	4.6	5.5	6.1	3.7	6.1	6.7	4.6	5.5	5.3	4.7	3.7	5.0	5.6
FESNOVA	6.0	4.8	5.3	5.5	4.0	6.3	6.9	4.4	6.1	4.3	4.7	3.3	4.3	5.6
K12-MCD	6.0	5.0	5.3	5.9	3.7	5.8	6.8	4.6	5.7	5.3	3.7	2.3	4.7	5.6
BAR FA 120878	7.0	5.2	5.0	5.8	4.7	5.3	6.6	4.1	6.9	5.0	4.0	3.0	4.7	5.6
MERIDIAN (PST-5GRB)	5.5	4.9	5.2	5.4	3.7	5.9	7.2	4.1	6.7	5.7	4.0	1.7	4.7	5.6
PARAMOUNT (PPG-TF-137)	5.2	5.3	5.2	5.7	3.0	6.3	7.1	4.2	5.9	5.7	3.7	2.0	4.7	5.5
HOVER (BURL TF-69)	5.8	4.1	5.7	5.4	4.0	6.1	7.2	4.7	5.9	5.0	5.0	3.0	4.0	5.5
HOT ROD (BURL TF-136)	5.3	5.0	5.5	5.6	4.0	6.1	7.6	4.5	5.8	6.0	5.0	2.7	4.7	5.5
PPG-TF-138	5.5	5.2	5.2	5.9	3.7	6.2	7.1	4.5	5.6	5.0	4.0	2.3	4.7	5.5
TITANIUM 2LS (PPG-TF-152)	6.2	5.3	5.5	5.7	3.3	6.3	7.3	4.5	5.2	4.7	4.0	2.5	5.0	5.5
FIRECRACKER SLS (PPG-TF-105)	6.3	4.9	5.3	5.6	3.0	5.9	7.1	4.6	5.3	5.0	3.7	3.0	4.3	5.5
REFLECTION (U45)	5.5	5.1	5.7	5.7	3.7	6.2	6.7	4.6	5.1	4.7	3.7	3.0	5.3	5.5
IS-TF-287	5.0	5.3	5.0	5.9	4.7	5.8	7.2	4.4	5.4	4.0	4.3	2.7	4.7	5.5
PST-5BRK	5.7	5.9	5.0	5.7	3.7	5.9	7.1	4.4	5.7	4.7	4.0	2.3	4.7	5.5
TURFWAY (IS-TF 282 M2)	5.7	5.1	5.0	5.7	3.7	5.9	6.9	4.7	5.6	4.7	4.0	2.3	4.3	5.5
XTENDER (PPG-TF-139)	6.2	4.6	5.3	5.8	3.3	6.3	6.9	4.5	5.3	5.0	3.3	2.3	5.0	5.5
VALKYRIE LS (PPG-TF-172)	5.7	4.3	5.5	5.5	3.3	6.0	7.6	4.7	5.4	5.0	4.0	2.0	4.7	5.5
STANDOUT (IS-TF 308 SEL)	5.7	4.8	5.5	5.8	4.0	6.0	7.1	4.5	5.0	4.7	4.0	3.3	5.0	5.4
JS 916	6.7	5.0	5.3	5.7	3.7	6.3	6.7	4.5	4.9	5.0	4.3	3.3	4.0	5.4
INSPIRATION (PST-R5NW)	5.7	4.9	5.2	5.9	5.0	5.8	6.7	4.5	5.2	4.0	4.3	3.3	4.7	5.4
SWAGGER (PST-5RO5)	5.7	5.1	5.2	5.2	4.3	6.0	6.8	4.4	5.7	4.0	4.0	3.0	3.7	5.4
PPG-TF-115	5.8	4.7	5.2	5.6	4.0	5.8	6.7	4.6	5.1	4.0	4.3	2.3	5.3	5.4
ROWDY (SRX-TPC)	5.8	4.4	5.3	5.4	3.7	6.0	6.6	4.5	5.4	4.3	4.3	3.3	5.0	5.4
FRONTLINE (EXP TF-09)	5.3	5.7	5.0	5.6	4.7	6.0	7.2	4.6	4.6	4.3	4.0	2.5	4.0	5.4
TEMPLE (DZ1)	5.8	4.0	5.2	5.5	3.7	5.9	7.1	4.5	5.5	4.7	3.7	2.3	4.3	5.4
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	4.7	4.8	5.4	3.7	6.2	7.1	4.8	4.9	3.7	3.7	2.3	4.3	5.3
IS-TF 276 M2	5.2	5.1	5.5	5.4	3.0	5.8	6.8	4.7	4.7	4.0	3.3	1.7	4.7	5.3
HEMI	5.3	4.8	4.7	5.6	3.7	6.0	6.9	4.3	5.3	5.0	4.3	2.7	4.7	5.3
HOUNDOG8 (IS-TF 307 SEL)	5.0	4.6	5.3	5.5	3.7	5.9	7.1	4.6	4.5	4.0	4.0	3.0	4.3	5.3
TERRANO	7.0	4.2	5.0	5.4	3.7	5.9	6.9	4.5	4.7	4.7	3.7	2.3	4.3	5.3
TEMPTATION (OR-21)	5.0	5.3	5.3	5.7	4.7	5.9	6.9	4.6	4.5	4.3	4.0	2.5	4.3	5.2
BAR FA 121089	5.2	4.2	4.8	5.4	4.3	5.8	7.0	4.4	5.4	4.3	3.3	2.0	4.3	5.2
AQUADUCT	5.7	5.0	4.2	5.3	3.7	5.6	7.1	4.5	5.0	3.7	3.7	2.7	4.3	5.2
RHAMBLER 2 SRP (LSD)	6.3	4.2	5.0	5.5	3.7	5.9	6.7	4.6	4.5	4.0	3.7	2.0	5.0	5.2
OLYMPUS (RAD-TF-88)	5.5	2.9	5.0	5.6	4.0	5.8	6.7	4.5	5.1	5.3	4.7	2.3	4.7	5.2
RAD-TF-89	5.7	3.8	5.2	5.4	5.0	6.0	7.0	4.7	4.9	4.7	4.3	2.0	4.3	5.2
RAD-TF-92	5.3	3.6	5.2	5.5	4.0	5.9	7.1	4.7	5.0	4.7	4.7	1.3	4.3	5.2
204 RES. BLK4	5.7	4.6	4.7	6.1	4.3	5.4	7.0	4.3	5.1	5.0	5.3	1.7	4.7	5.2
PSG-TT4	5.8	5.4	4.8	4.9	4.3	5.8	6.4	4.4	5.4	4.0	3.0	3.3	4.3	5.2
TRENDING (IS-TF 269 SEL)	5.7	4.7	5.3	5.5	3.7	6.0	6.6	4.9	4.3	4.3	3.7	2.3	4.7	5.2
RHIZING MOON (IS-TF 305 SEL)	5.3	4.9	5.2	5.7	4.0	6.0	6.3	4.3	4.7	4.0	3.7	1.7	4.7	5.2
PST-5DZP	5.3	4.8	4.5	5.7	4.7	5.8	6.4	4.4	4.6	4.3	4.0	1.0	4.7	5.1
DIABLO (IS-TF 330)	5.7	4.4	5.0	5.5	3.7	5.8	7.3	4.6	4.2	3.7	3.7	2.7	4.7	5.1

TABLE 20.
(CONT'D)

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	CA3	CT1	IA1	IL1	IN1	MS1	NC1	NE1	NJ1	NJ2	OK1	PA1	TN1	MEAN
PSG-8BP2	5.5	5.2	5.3	5.3	3.7	5.7	6.4	4.5	4.8	4.0	3.3	2.3	3.7	5.1
SALTILLO (PST-5SALT)	6.0	4.6	5.3	5.7	3.3	5.6	6.4	4.4	4.8	4.0	4.0	2.0	4.0	5.1
NIGHTCRAWLER (IS-TF 285)	6.0	4.4	5.2	5.1	3.3	5.8	6.6	4.5	4.3	3.7	3.3	2.3	4.3	5.0
JS 818	7.0	4.8	5.3	5.1	4.0	5.5	6.3	4.5	3.7	2.3	3.7	2.0	4.0	5.0
FOXHOUND (IS-TF 284 M2)	6.3	4.7	5.5	5.1	3.7	5.9	6.0	4.5	4.0	4.0	3.0	1.7	4.0	5.0
ARES (PPG-TF-142)	6.0	4.8	5.5	5.9	4.0	5.7	6.7	4.3	3.3	3.3	3.3	2.0	4.7	4.9
JS 819	5.5	4.6	5.2	5.7	3.3	5.8	6.3	4.5	3.6	2.7	3.7	1.7	3.7	4.9
MEMPHIS (GO-DFR)	6.0	4.3	5.0	5.3	3.7	5.7	6.4	4.3	4.2	3.0	4.0	1.3	4.3	4.9
UNITUS (IS-TF 289)	5.8	4.2	5.0	5.5	3.7	5.8	6.4	4.5	3.3	3.0	4.0	1.7	4.7	4.9
BAR FA 121091	5.8	4.3	4.7	5.5	3.7	5.5	6.9	4.7	3.7	3.3	2.7	2.0	5.0	4.9
COMP. RES. SST	5.5	4.7	4.3	5.1	3.3	5.5	7.0	4.2	4.1	4.0	4.7	2.3	5.0	4.9
MARAUDER	6.0	4.7	4.5	5.4	4.7	5.4	6.3	4.2	4.2	4.3	4.3	1.7	4.7	4.9
IS-TF 272	5.7	4.0	5.0	5.5	4.0	5.5	6.3	4.3	4.0	3.0	4.0	1.7	4.0	4.9
K12-05	5.2	4.0	5.0	4.9	3.3	5.9	6.4	4.3	3.9	4.0	3.7	1.7	3.7	4.9
ANNIHILATOR	5.5	5.4	4.2	5.5	3.0	5.4	6.4	4.3	4.2	3.0	3.7	1.3	4.3	4.8
JS 809	6.7	4.6	4.8	5.1	4.3	5.3	6.6	4.5	3.3	3.0	4.0	1.7	4.0	4.8
DYNAMITE LS (PPG-TF-145)	6.0	4.9	4.8	5.4	4.0	5.6	6.4	4.5	3.2	2.7	2.3	1.0	5.0	4.8
KINGDOM (DB1)	6.5	3.8	5.3	5.4	3.7	5.8	6.3	4.6	3.3	3.3	4.0	2.0	5.0	4.8
WARHAWK	6.3	4.7	4.8	5.6	3.3	5.4	6.6	4.5	3.2	3.3	4.0	1.0	4.7	4.8
THUNDERSTRUCK (TD1)	5.5	4.0	4.2	5.3	4.3	5.8	6.1	4.6	2.9	3.3	4.0	1.3	5.7	4.7
BAR FA 121095	6.2	3.2	4.5	4.5	3.7	5.3	5.7	4.5	3.5	3.7	3.0	1.0	4.7	4.5
JS 825	5.7	3.8	5.2	4.9	3.7	5.3	5.8	4.6	2.3	2.7	3.7	1.7	4.3	4.4
K12-13	4.8	3.3	5.0	4.7	4.0	5.3	5.9	4.5	2.1	2.3	4.0	1.3	3.0	4.3
LSD VALUE	1.1	1.6	0.9	1.4	1.2	0.7	1.1	0.7	1.4	1.2	1.0	1.5	1.0	0.5
C.V. (%)	12.3	20.2	10.9	14.9	19.8	7.5	10.4	10.8	16.3	15.5	15.4	33.2	14.1	13.6

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 21.

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	CT1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	MEAN
REGENERATE	6.5	6.3	6.6	7.7	6.3	6.5	6.6	6.0	7.7	5.3	8.7	7.6	5.3	6.5
204 RES. BLK4	7.7	6.4	7.1	5.5	5.7	6.3	7.0	6.6	7.5	4.9	7.7	7.4	5.0	6.4
MERIDIAN (PST-5GRB)	7.5	5.2	7.0	7.0	5.7	6.6	6.1	6.1	7.9	5.1	8.7	7.4	5.9	6.4
OLYMPUS (RAD-TF-88)	7.2	5.8	6.9	6.7	5.7	6.6	6.1	6.3	7.6	5.2	7.3	8.4	4.3	6.4
AMITY (CCR2)	6.7	6.0	6.7	7.7	5.7	6.4	6.2	6.0	7.5	5.1	8.0	7.3	5.7	6.3
K12-05	7.3	5.8	6.3	7.5	6.1	6.3	6.2	6.1	7.3	5.3	6.3	7.4	5.6	6.3
AVENGER II (PPG-TF-156)	6.5	6.2	6.8	7.0	5.8	6.3	5.9	6.0	7.5	5.1	7.7	7.7	5.1	6.3
XTENDER (PPG-TF-139)	6.8	5.8	5.8	7.7	5.6	6.7	6.1	6.1	7.5	5.3	6.7	7.8	5.7	6.3
K12-13	7.8	6.2	6.2	6.3	5.5	6.5	6.7	6.7	7.2	5.2	5.7	7.1	5.6	6.3
FAYETTE (IS-TF 291)	6.7	5.8	6.4	8.0	5.6	6.4	6.3	6.3	7.3	5.1	7.7	7.2	5.6	6.3
4TH MILLENNIUM SRP (U43)	6.7	5.9	6.3	7.8	5.6	6.5	6.2	6.1	7.5	5.1	8.3	7.2	5.0	6.3
IS-TF 272	7.5	5.6	6.7	7.5	5.7	6.4	6.3	6.1	7.3	5.2	5.7	7.1	5.4	6.3
TITANIUM 2LS (PPG-TF-152)	7.0	5.8	6.5	7.5	5.5	6.3	6.1	6.0	7.6	5.1	7.3	7.7	5.6	6.3
RAPTOR III (ZW 44)	6.7	5.7	6.2	7.8	6.1	6.5	6.0	6.0	7.5	5.3	7.3	6.9	5.2	6.3
TECHNIQUE (RZ2)	6.7	5.8	6.3	7.3	5.8	6.5	6.1	6.0	7.5	5.3	7.7	6.9	5.2	6.3
THOR (PPG-TF-157)	7.0	5.6	6.6	7.3	5.7	6.4	5.6	6.0	7.4	5.3	7.0	7.1	5.7	6.3
COMP. RES. SST	7.3	6.4	6.3	6.0	5.4	6.4	6.2	6.5	7.6	5.0	7.0	7.6	4.8	6.3
HOVER (BURL TF-69)	7.3	5.4	6.5	7.0	6.1	6.7	6.2	6.1	7.2	5.3	6.3	7.8	4.3	6.3
TRAVERSE 2 SRP (W45)	6.7	5.5	6.5	8.0	5.9	6.1	6.3	6.0	7.5	5.3	8.3	7.1	5.2	6.3
PARAMOUNT (PPG-TF-137)	6.7	6.0	6.3	7.2	5.7	6.3	6.1	6.1	7.5	5.1	7.7	7.6	5.3	6.3
W41	6.5	6.0	6.1	7.7	6.3	6.3	6.0	6.0	7.3	5.1	7.0	7.3	5.1	6.2
FIREWALL (PSG-WE1)	6.7	5.9	6.3	7.5	5.8	6.2	5.8	6.0	7.3	5.2	7.7	7.8	5.2	6.2
SUPERSONIC (PPG-TF-170)	7.2	5.9	6.4	7.2	5.7	6.3	6.1	6.0	7.5	5.3	7.0	7.3	5.2	6.2
MET 1	6.7	5.8	6.1	7.8	5.5	6.1	6.3	6.0	7.7	5.3	7.3	7.3	5.3	6.2
BLACK TAIL (PPG-TF-150)	6.5	6.3	6.1	7.7	6.0	6.1	6.0	6.0	7.3	5.1	7.7	7.3	5.2	6.2
IS-TF 311	6.7	6.1	6.3	7.2	6.0	6.3	5.7	6.0	7.2	5.1	7.3	7.0	5.7	6.2
FOXHOUND (IS-TF 284 M2)	7.5	5.3	5.9	7.2	5.9	6.2	5.9	6.3	7.3	5.2	6.0	7.3	5.8	6.2
FIREBIRD 2	7.7	5.6	5.7	7.5	5.6	6.6	6.3	6.1	7.5	5.3	7.7	6.8	5.3	6.2
MET-3	6.7	6.0	6.4	7.2	5.9	6.2	6.0	6.1	7.3	5.0	7.0	7.2	5.3	6.2
CROSSFIRE 4 (IS-TF 310 SEL)	6.8	5.6	6.7	6.8	5.2	6.1	5.9	6.1	7.6	5.3	7.0	7.6	5.7	6.2
HEMI	6.7	5.8	6.3	7.7	5.9	6.4	6.3	6.0	7.1	5.3	7.3	7.4	4.7	6.2
FIRECRACKER SLS (PPG-TF-105)	6.3	5.6	6.4	7.3	5.7	6.3	6.1	6.1	7.5	5.3	6.0	7.4	5.1	6.2
REFLECTION (U45)	6.8	5.7	5.9	7.7	5.5	6.6	5.9	6.0	7.5	5.0	6.7	7.7	5.2	6.2
PPG-TF-135	6.7	6.0	6.4	7.8	5.6	6.3	5.9	6.0	7.6	5.1	6.7	7.1	5.0	6.2
HOUND08 (IS-TF 307 SEL)	7.0	5.7	5.9	7.2	5.3	6.6	6.1	6.0	7.5	5.3	7.3	7.0	5.8	6.2
STANDOUT (IS-TF 308 SEL)	6.8	5.3	6.0	7.2	5.7	6.5	5.9	6.0	7.4	5.4	8.3	6.9	5.4	6.2
TRINITY (BIZEM)	7.5	5.7	6.1	7.8	5.6	6.3	5.9	6.0	7.5	5.1	6.7	6.9	5.3	6.2
REBOUNDER (PICK-W43)	6.7	5.6	6.2	7.8	5.9	5.9	6.0	6.0	7.3	5.3	7.0	7.6	5.2	6.2
F711	7.5	5.7	6.1	7.3	5.3	6.1	5.9	5.9	7.5	5.3	8.0	7.1	5.6	6.2
RAD-TF-89	6.7	6.0	5.7	7.5	5.6	6.3	6.6	6.1	7.4	5.1	7.0	8.2	4.4	6.2
DIABLO (IS-TF 330)	6.5	5.6	6.4	7.8	5.5	6.2	6.1	6.0	7.3	5.1	7.3	7.0	5.3	6.2
RHIZING MOON (IS-TF 305 SEL)	6.7	5.9	6.3	7.2	5.7	6.1	6.1	6.0	7.3	5.3	7.3	6.3	5.6	6.2
B23	6.7	5.8	6.0	8.0	4.9	6.5	6.6	6.1	7.5	5.0	7.3	7.6	5.3	6.2
HOT ROD (BURL TF-136)	7.0	5.5	6.3	7.7	5.6	6.1	5.8	6.0	7.5	5.3	7.3	7.0	5.1	6.2
VALKYRIE LS (PPG-TF-172)	6.5	5.8	6.0	7.7	5.5	6.2	6.0	6.0	7.6	5.3	7.0	7.0	5.2	6.2
TURFWAY (IS-TF 282 M2)	6.8	5.4	6.1	6.8	5.5	6.3	6.1	6.4	7.3	5.3	7.0	6.4	5.8	6.2

TABLE 21.
(CONT'D)

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	CT1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	MEAN
TRENDING (IS-TF 269 SEL)	7.0	5.5	5.8	7.2	5.8	6.5	6.0	5.9	7.3	5.3	6.7	7.0	5.4	6.2
ROWDY (SRX-TPC)	6.5	6.1	6.1	7.2	5.5	6.1	6.0	6.0	7.5	5.3	6.7	7.3	5.0	6.1
TEMPLE (DZ1)	6.8	6.1	5.9	7.2	5.5	6.1	6.3	6.0	7.4	5.3	7.3	7.0	5.1	6.1
MARAUDER	7.8	5.5	6.3	6.0	5.3	6.6	6.2	6.0	7.5	5.1	5.7	7.4	4.8	6.1
SCREAMER LS (PPG-TF-148)	6.7	6.2	6.1	7.3	5.3	6.3	5.8	6.0	7.3	5.1	7.3	6.8	5.2	6.1
THUNDERSTRUCK (TD1)	6.7	5.9	6.2	7.3	5.7	6.3	5.9	6.0	7.4	5.1	5.3	6.7	5.0	6.1
KINGDOM (DB1)	7.3	5.3	6.1	6.8	6.0	6.3	6.2	6.0	7.2	5.2	6.0	6.7	5.0	6.1
GTO (BURL TF-2)	6.7	5.9	5.9	7.8	5.4	5.9	6.2	6.0	7.4	5.3	6.3	7.2	5.1	6.1
PSG-PO1	7.0	5.9	6.2	7.2	5.4	6.2	5.9	6.0	7.3	5.0	7.0	7.1	4.9	6.1
ROCKWELL (LTP-TWUU)	6.5	5.2	6.1	7.3	5.7	6.1	6.0	5.9	7.3	5.3	7.3	7.1	5.1	6.1
RAD-TF-92	7.3	5.1	6.1	7.0	5.7	6.3	6.1	6.0	7.1	5.1	7.7	8.1	4.4	6.1
UNITUS (IS-TF 289)	7.3	4.5	5.9	7.5	5.7	6.3	6.1	6.0	7.5	5.3	6.3	7.0	5.6	6.1
DYNAMITE LS (PPG-TF-145)	6.7	5.5	5.5	7.2	5.5	6.4	6.0	6.0	7.4	5.3	5.7	6.9	5.7	6.1
VERT (ATF 1612)	6.7	5.8	5.7	7.2	5.2	6.2	6.1	5.9	7.3	5.1	7.0	7.6	5.0	6.1
FAITH	6.7	6.1	5.5	7.3	5.8	6.1	6.1	5.9	7.3	5.1	6.0	6.9	5.0	6.1
MEMPHIS (GO-DFR)	7.0	5.6	5.5	6.7	5.7	6.4	6.2	6.0	7.4	5.3	6.0	6.2	5.3	6.1
WICHITA (PPG-TF-151)	6.7	5.7	5.9	7.3	5.2	6.0	6.1	6.1	7.5	5.2	6.0	6.7	5.3	6.0
RHAMBLER 2 SRP (LSD)	7.2	5.8	5.9	7.3	4.9	6.3	6.1	5.9	7.3	5.1	7.0	6.2	5.7	6.0
MAESTRO (T31)	6.7	6.0	5.9	7.8	5.4	6.1	5.4	5.9	7.3	5.3	6.7	6.4	4.9	6.0
PPG-TF-138	6.7	5.3	5.8	7.2	5.7	6.4	5.7	5.9	7.1	5.3	6.3	6.9	5.3	6.0
JS 916	6.5	5.1	5.7	7.5	5.6	6.3	5.8	6.0	7.3	5.1	7.3	7.1	5.4	6.0
JS 809	6.7	5.7	5.8	6.5	5.4	6.2	6.1	6.0	7.3	5.2	5.3	6.8	5.2	6.0
K12-MCD	7.2	5.3	6.1	6.5	5.5	6.3	6.0	6.0	7.1	5.4	5.7	6.2	5.4	6.0
MICHELANGELO (LTP-F5DPDR)	7.0	5.4	5.9	6.8	5.7	6.1	6.3	6.0	7.3	5.3	6.3	6.2	4.8	6.0
BLOODHOUND (MET 6 SEL)	7.0	5.6	5.7	7.2	5.6	5.9	6.2	5.9	7.2	5.1	7.3	6.6	4.8	6.0
PPG-TF-169	6.7	5.4	5.4	7.5	5.7	6.2	6.0	6.0	7.3	5.3	7.0	6.7	5.0	6.0
CATALYST	6.7	5.3	5.9	7.5	5.4	6.3	6.3	5.9	7.3	5.1	6.3	6.6	4.8	6.0
ARES (PPG-TF-142)	7.0	5.0	6.1	7.3	4.9	6.4	5.9	6.1	7.4	5.3	5.7	6.3	5.7	6.0
ATF 1704	6.5	5.6	5.6	6.7	5.3	6.0	6.1	6.0	7.5	5.1	8.0	6.7	5.3	6.0
BULLSEYE	6.5	5.4	5.8	7.5	5.1	6.3	6.1	6.0	7.1	5.2	6.7	6.6	5.1	6.0
WARHAWK	7.2	5.0	6.1	6.2	5.0	5.9	6.0	6.3	7.5	5.4	5.7	6.2	5.8	6.0
GRANDE 3	6.8	5.8	5.5	7.0	5.3	5.9	5.6	6.0	7.1	5.3	7.7	7.2	5.1	6.0
FALCON V	6.7	5.6	6.0	7.2	5.3	6.1	6.1	5.9	7.1	5.0	6.0	7.1	4.9	6.0
NIGHTCRAWLER (IS-TF 285)	6.7	4.7	6.1	6.5	5.6	6.4	6.0	5.8	7.1	4.9	6.3	7.1	5.4	6.0
PST-5DZP	6.7	5.3	5.6	7.2	5.1	6.2	5.8	6.0	7.2	5.2	6.3	6.6	5.7	6.0
ANNIHILATOR	7.8	5.2	6.1	5.8	5.0	6.1	6.2	5.9	7.5	5.1	5.7	6.3	5.1	6.0
IS-TF-287	6.7	5.3	6.3	6.7	5.4	5.7	5.4	5.9	6.9	5.1	6.3	7.3	5.2	5.9
FESNOVA	7.0	5.8	5.8	7.2	5.4	6.0	5.6	5.9	7.3	5.2	6.3	6.0	4.9	5.9
RAD-TF-83	7.0	4.8	5.8	7.2	5.6	6.1	5.9	6.0	7.0	5.3	5.7	7.3	4.3	5.9
EMBRACE (PST-5EV2)	6.7	5.0	5.3	7.5	5.3	6.1	6.1	5.9	7.4	5.4	7.0	6.3	5.3	5.9
ATF 1754	6.7	5.3	5.4	7.3	5.5	5.6	5.7	5.9	7.3	5.2	6.3	6.8	5.0	5.9
PPG-TF-115	6.7	5.3	5.6	7.3	5.1	6.1	5.8	5.9	7.1	5.5	5.0	6.3	5.3	5.9
IS-TF 276 M2	6.8	5.7	5.3	7.0	5.3	5.9	6.1	6.0	7.1	5.1	5.0	6.4	5.2	5.9
CAESAR (TY 10)	6.7	5.3	5.3	6.8	5.5	5.7	6.0	6.0	7.3	5.2	5.7	6.9	4.9	5.9
LEONARDO (LTP-FSD)	6.7	5.0	5.5	7.2	5.1	5.8	5.8	6.0	7.3	5.4	5.7	6.6	5.0	5.9
JS 819	6.5	5.7	5.7	6.3	5.3	5.9	5.7	5.9	6.8	5.3	4.3	6.7	5.1	5.9
BAR FA 121095	6.8	5.1	5.7	6.2	5.2	6.1	6.0	6.0	7.1	5.3	5.3	6.0	4.8	5.8

TABLE 21.
(CONT'D)

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	CT1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	MEAN
PST-5MVD	6.7	5.3	5.3	7.2	5.5	6.0	6.1	5.9	7.1	5.3	5.0	5.9	4.8	5.8
TEMPTATION (OR-21)	6.7	5.0	5.5	6.5	5.1	5.7	5.8	5.9	7.1	5.5	5.7	6.2	5.3	5.8
SALTILLO (PST-5SALT)	6.7	4.7	5.5	7.2	5.3	5.8	6.1	5.8	7.0	5.4	5.7	5.9	5.1	5.8
REBEL V (ATF 1736)	6.5	5.0	5.3	6.7	5.6	5.8	6.0	5.9	7.1	5.2	6.0	6.1	4.8	5.8
TERRANO	7.0	5.6	5.1	7.2	5.2	5.7	5.4	5.7	7.1	5.4	5.7	5.8	5.0	5.7
PST-5BRK	6.8	4.9	5.8	7.0	5.1	5.6	5.9	5.9	7.0	5.4	4.0	6.0	4.6	5.7
JS 818	6.7	5.2	5.6	6.2	5.3	6.0	6.0	6.0	7.1	5.0	5.0	5.8	4.7	5.7
PSG-TT4	6.5	5.0	5.3	6.8	4.9	6.0	5.6	5.7	7.3	5.3	4.7	6.6	4.9	5.7
PSG-GSD	6.7	5.7	5.1	7.0	4.8	6.1	6.0	5.7	6.9	5.4	4.7	6.0	4.8	5.7
SWAGGER (PST-5RO5)	6.7	4.8	5.3	7.0	4.8	6.0	5.9	5.9	7.1	5.2	5.7	6.0	5.1	5.7
FRONTLINE (EXP TF-09)	6.7	5.7	5.1	6.8	5.3	5.9	5.6	5.7	6.9	5.2	4.7	5.8	4.8	5.7
PST-5BP0	6.5	4.9	5.3	7.0	5.3	5.6	5.6	5.7	7.1	5.5	5.0	5.6	5.0	5.7
PSG-8BP2	6.7	5.1	5.1	6.7	5.3	5.9	5.4	5.5	6.9	5.5	4.7	5.9	5.3	5.7
RAIN DANCE (PST-5SDT)	6.5	4.7	5.1	6.5	4.9	5.7	5.4	5.7	7.0	5.4	5.3	5.2	5.1	5.6
BAR FA 121089	6.7	4.7	5.1	6.5	5.0	5.7	5.6	5.9	7.1	5.3	4.0	5.3	4.8	5.6
AQUADUCT	6.5	5.3	4.9	6.0	5.0	5.7	6.0	5.5	7.2	5.1	4.3	5.1	4.9	5.5
FALCON IV	6.5	4.8	5.0	7.0	5.0	5.6	5.6	5.7	6.8	5.5	4.7	4.6	4.7	5.5
BAR FA 121091	6.7	4.8	4.9	6.2	5.1	5.5	5.4	5.5	6.7	5.4	3.7	4.2	4.8	5.4
PST-5EX2	6.7	4.6	4.7	6.7	5.1	5.3	5.6	5.7	6.8	5.1	4.3	4.7	4.9	5.4
JS 825	6.7	3.9	5.0	6.2	4.8	5.5	5.0	5.7	6.9	5.5	3.7	4.7	4.8	5.3
INSPIRATION (PST-R5NW)	6.3	4.8	4.4	7.0	4.7	5.8	5.1	5.5	6.7	5.4	3.3	3.6	4.8	5.3
BAR FA 120878	6.0	4.1	3.5	5.8	4.2	4.4	5.3	4.6	5.8	5.1	2.3	2.0	4.7	4.5
KY-31	5.3	3.5	2.3	3.8	3.1	3.1	2.8	3.6	4.9	5.6	1.3	1.0	3.7	3.5
LSD VALUE	0.8	0.9	1.2	0.9	1.2	0.9	0.9	0.4	0.7	0.7	1.3	1.2	0.9	0.3
C.V. (%)	7.1	10.5	13.0	7.8	13.8	8.9	9.3	4.3	5.8	8.3	12.4	11.1	11.3	9.6

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 22.

SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS 1/
2012 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	AR1	KY1	MO1	MS1	NC1	NJ1	NJ2	MEAN
KY-31	7.0	5.7	8.0	8.0	6.0	9.0	7.7	7.3
PPG-TF-169	7.0	5.0	8.0	7.0	7.0	8.0	6.7	7.0
ROWDY (SRX-TPC)	7.0	4.3	8.3	7.0	6.0	8.3	6.7	6.8
SUPERSONIC (PPG-TF-170)	7.0	4.3	8.3	7.3	4.3	8.7	7.7	6.8
FIRECRACKER SLS (PPG-TF-105)	7.0	4.7	7.3	7.0	6.3	7.7	6.3	6.6
F711	7.0	3.3	8.0	7.3	6.3	8.7	5.3	6.6
TEMPTATION (OR-21)	7.0	4.0	7.3	6.7	6.0	8.3	6.7	6.6
LEONARDO (LTP-FSD)	7.0	3.3	8.0	7.0	5.3	8.7	6.3	6.5
GRANDE 3	7.0	4.3	7.7	6.7	6.3	8.0	5.7	6.5
REBOUNDER (PICK-W43)	7.0	3.0	8.0	7.0	5.7	8.3	6.3	6.5
TRAVERSE 2 SRP (W45)	7.0	3.3	8.3	7.7	5.7	8.0	5.3	6.5
NIGHTCRAWLER (IS-TF 285)	7.0	4.3	7.7	7.0	5.7	7.0	6.3	6.4
B23	7.0	3.7	7.7	7.3	5.7	7.7	6.0	6.4
MET 1	7.0	3.3	8.0	7.3	5.7	7.0	6.7	6.4
TECHNIQUE (RZ2)	7.0	4.0	6.7	6.7	6.3	8.3	6.0	6.4
WICHITA (PPG-TF-151)	7.3	2.7	7.3	7.0	7.0	8.7	5.0	6.4
BAR FA 120878	7.0	2.3	8.0	7.0	5.7	7.7	7.0	6.4
JS 809	6.7	4.3	7.7	7.0	5.3	8.3	5.3	6.4
ANNIHILATOR	7.0	2.7	7.7	7.0	5.3	8.3	6.3	6.3
PST-5BRK	7.0	3.7	7.7	6.7	5.7	8.3	5.3	6.3
RAD-TF-89	7.0	3.3	6.7	7.0	6.3	7.7	6.3	6.3
REGENERATE	7.0	3.3	7.3	7.0	6.7	8.0	5.0	6.3
VALKYRIE LS (PPG-TF-172)	7.0	3.3	7.0	7.0	6.7	8.0	5.3	6.3
RHAMBLER 2 SRP (LSD)	7.0	3.7	8.0	7.0	5.3	7.7	5.7	6.3
UNITUS (IS-TF 289)	7.0	3.7	7.7	7.3	5.0	7.7	6.0	6.3
4TH MILLENNIUM SRP (U43)	7.0	2.3	7.7	7.3	6.0	8.3	5.3	6.3
FAITH	7.0	3.7	7.7	7.0	5.3	8.3	5.0	6.3
FALCON IV	6.7	4.0	7.7	6.3	5.3	8.0	6.0	6.3
IS-TF-287	7.0	3.3	7.3	7.0	5.3	8.3	5.7	6.3
THUNDERSTRUCK (TD1)	7.0	4.3	7.3	7.0	5.7	6.7	6.0	6.3
ATF 1704	7.0	3.3	7.3	6.3	5.7	8.7	5.3	6.2
PST-5EX2	7.0	3.3	7.3	6.7	5.0	9.0	5.3	6.2
CAESAR (TY 10)	7.0	2.7	7.3	6.7	6.3	8.0	5.7	6.2
CATALYST	7.0	3.0	7.3	6.3	5.7	8.3	6.0	6.2
HEMI	7.0	3.7	7.0	6.7	6.3	7.3	5.7	6.2
MERIDIAN (PST-5GRB)	7.0	3.7	8.0	7.0	4.7	9.0	4.3	6.2
SWAGGER (PST-5RO5)	7.0	3.3	7.7	6.3	4.3	8.7	6.3	6.2
IS-TF 276 M2	7.0	2.7	7.3	6.7	6.7	7.7	5.3	6.2
BULLSEYE	7.0	3.7	7.7	6.7	4.3	8.0	6.0	6.2
PSG-GSD	7.7	2.0	7.3	7.0	5.3	8.3	5.7	6.2
TERRANO	6.7	3.7	7.0	6.7	5.7	7.3	6.0	6.1
FESNOVA	7.0	2.7	7.7	6.7	4.7	8.3	6.0	6.1
JS 818	7.0	3.7	7.0	6.3	5.3	8.3	5.3	6.1
TITANIUM 2LS (PPG-TF-152)	7.0	4.0	6.7	7.0	5.0	7.7	5.7	6.1
RAIN DANCE (PST-5SDT)	7.0	2.7	7.3	7.3	5.3	8.7	4.7	6.1
HOVER (BURL TF-69)	7.0	3.0	7.0	6.7	5.0	8.7	5.3	6.1

TABLE 22.
(CONT'D)

SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS 1/
2012 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	AR1	KY1	MO1	MS1	NC1	NJ1	NJ2	MEAN
FRONTLINE (EXP TF-09)	7.3	3.3	6.7	6.7	5.3	7.7	5.7	6.1
GTO (BURL TF-2)	6.7	2.3	7.3	7.3	5.3	7.7	6.0	6.1
PPG-TF-135	7.0	4.7	6.3	6.3	5.3	7.7	5.3	6.1
PSG-TT4	7.3	2.7	7.3	6.7	5.3	8.7	4.7	6.1
SALTILLO (PST-5SALT)	7.0	3.3	7.7	7.0	5.0	8.0	4.7	6.1
AVENGER II (PPG-TF-156)	7.0	3.0	7.3	6.7	4.7	7.7	6.0	6.0
JS 819	7.0	3.0	7.3	6.7	5.0	8.0	5.3	6.0
K12-MCD	7.0	3.0	7.7	6.7	4.0	8.0	6.0	6.0
MAESTRO (T31)	7.0	3.0	7.0	6.7	4.7	8.0	6.0	6.0
RAPTOR III (ZW 44)	7.0	2.7	7.3	6.7	5.0	8.3	5.3	6.0
SCREAMER LS (PPG-TF-148)	7.0	3.7	7.3	6.7	4.7	7.7	5.3	6.0
ATF 1754	7.0	3.0	7.3	6.7	5.3	8.0	5.0	6.0
FALCON V	7.0	2.7	7.3	6.3	5.0	8.0	6.0	6.0
FAYETTE (IS-TF 291)	7.0	3.0	7.7	7.3	4.3	7.3	5.7	6.0
OLYMPUS (RAD-TF-88)	7.3	2.3	6.7	6.7	5.0	8.7	5.7	6.0
PST-5MVD	7.0	3.7	7.3	7.0	4.3	8.0	5.0	6.0
BLACK TAIL (PPG-TF-150)	7.0	3.0	7.3	6.7	5.3	7.3	5.3	6.0
VERT (ATF 1612)	7.0	2.7	7.7	7.0	5.7	6.3	5.7	6.0
ROCKWELL (LTP-TWUU)	7.0	2.7	7.3	6.0	6.3	8.0	4.7	6.0
AQUADUCT	7.0	2.7	7.3	6.7	6.0	8.0	4.0	6.0
MICHELANGELO (LTP-F5DPDR)	7.0	3.3	8.0	6.3	4.7	7.0	5.3	6.0
WARHAWK	7.0	2.7	7.5	6.3	5.3	8.0	4.7	5.9
CROSSFIRE 4 (IS-TF 310 SEL)	7.0	3.0	7.7	6.7	5.3	7.0	4.7	5.9
MARAUDER	7.0	2.7	7.0	6.7	4.7	8.0	5.3	5.9
PPG-TF-115	7.0	3.7	7.3	6.0	4.7	7.0	5.7	5.9
RAD-TF-92	6.7	2.7	6.7	6.7	5.3	7.3	6.0	5.9
THOR (PPG-TF-157)	7.0	3.0	7.0	7.0	4.7	7.3	5.3	5.9
DIABLO (IS-TF 330)	7.0	3.0	6.7	7.0	5.3	7.3	4.7	5.9
EMBRACE (PST-5EV2)	7.0	3.0	7.7	7.0	4.7	7.0	4.7	5.9
HOT ROD (BURL TF-136)	7.0	2.7	7.3	6.7	5.0	7.3	5.0	5.9
MET-3	7.0	2.7	7.0	6.3	6.0	7.0	5.0	5.9
RAD-TF-83	7.3	3.0	7.3	6.0	5.0	7.0	5.3	5.9
TEMPLE (DZ1)	7.0	3.0	7.0	6.7	4.0	8.0	5.0	5.8
BLOODHOUND (MET 6 SEL)	7.0	3.3	7.7	6.3	5.0	7.3	4.0	5.8
KINGDOM (DB1)	7.0	3.7	7.3	7.0	4.3	6.3	5.0	5.8
PARAMOUNT (PPG-TF-137)	7.0	3.3	7.7	6.3	4.0	7.3	5.0	5.8
PPG-TF-138	7.0	2.7	7.0	7.0	4.3	7.3	5.3	5.8
PST-5BP0	7.0	2.7	7.7	6.3	5.0	8.0	4.0	5.8
FIREWALL (PSG-WE1)	7.0	2.3	7.0	6.3	4.3	8.3	5.0	5.8
INSPIRATION (PST-R5NW)	7.0	3.0	6.7	7.0	4.7	7.3	4.7	5.8
REBEL V (ATF 1736)	6.7	2.7	6.7	6.7	4.3	8.0	5.3	5.8
TRINITY (BIZEM)	7.0	3.0	7.0	6.3	5.0	7.7	4.3	5.8
W41	7.3	2.7	6.7	7.0	3.7	8.0	5.0	5.8
204 RES. BLK4	7.7	2.7	7.3	6.0	4.3	7.7	4.7	5.8
K12-05	7.0	2.3	7.3	6.7	4.7	6.7	5.3	5.7
AMITY (CCR2)	7.0	2.7	6.7	6.3	4.7	7.3	5.3	5.7
COMP. RES. SST	7.0	3.0	7.3	5.7	5.0	6.3	5.7	5.7

TABLE 22.
(CONT'D)

SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS 1/
2012 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	AR1	KY1	MO1	MS1	NC1	NJ1	NJ2	MEAN
JS 825	7.0	2.7	6.7	6.3	5.0	7.3	5.0	5.7
MEMPHIS (GO-DFR)	7.0	3.0	7.0	7.0	5.0	7.0	4.0	5.7
PSG-PO1	7.0	2.7	7.0	6.7	4.3	7.3	5.0	5.7
XTENDER (PPG-TF-139)	7.0	2.3	6.7	6.7	5.3	7.7	4.3	5.7
RHIZING MOON (IS-TF 305 SEL)	7.3	2.3	6.5	6.7	4.7	7.3	5.0	5.7
FIREBIRD 2	7.0	2.3	6.7	7.0	5.0	6.7	5.0	5.7
TURFWAY (IS-TF 282 M2)	7.3	2.0	7.3	6.0	3.7	7.7	5.7	5.7
REFLECTION (U45)	7.0	2.7	7.0	6.3	4.3	7.3	4.7	5.6
PSG-8BP2	7.0	2.3	7.0	6.7	4.0	8.0	4.0	5.6
TRENDING (IS-TF 269 SEL)	7.0	2.3	7.7	6.0	4.7	6.7	4.7	5.6
STANDOUT (IS-TF 308 SEL)	7.0	3.3	7.0	5.7	5.3	7.0	3.3	5.5
BAR FA 121089	7.0	2.0	6.7	7.0	4.7	6.3	4.7	5.5
PST-5DZP	7.7	2.3	6.3	6.3	4.3	7.0	4.3	5.5
HOUNDOG8 (IS-TF 307 SEL)	7.0	3.0	6.3	6.7	4.7	6.3	3.7	5.4
JS 916	7.0	2.7	6.3	5.7	3.3	7.7	4.7	5.3
ARES (PPG-TF-142)	7.3	2.3	6.3	6.7	4.3	6.0	4.0	5.3
BAR FA 121095	7.0	2.0	6.7	6.7	4.0	6.0	4.3	5.2
BAR FA 121091	7.3	2.3	7.3	6.7	5.3	4.7	3.0	5.2
DYNAMITE LS (PPG-TF-145)	6.7	2.3	5.7	6.3	4.3	7.3	4.0	5.2
FOXHOUND (IS-TF 284 M2)	7.0	2.0	6.0	6.3	4.3	7.3	3.7	5.2
IS-TF 272	7.0	2.7	7.0	6.0	5.0	5.7	3.3	5.2
IS-TF 311	7.0	2.7	5.7	5.3	3.7	6.0	3.7	4.9
K12-13	7.0	2.3	6.3	6.0	4.0	3.3	4.3	4.8
LSD VALUE	0.5	1.4	1.3	0.9	1.5	1.4	1.0	0.5
C.V. (%)	4.3	27.8	10.8	8.2	18.7	11.8	12.1	12.4

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 23.

 SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
 2013-17 DATA

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

NAME	CA3	IN1	NC1	MEAN	NAME	CA3	IN1	NC1	MEAN
F711	5.7	7.7	7.3	7.2	RAD-TF-89	6.7	6.3	6.6	6.6
PPG-TF-135	7.3	7.0	7.0	7.1	TEMPLE (DZ1)	6.3	7.0	6.4	6.6
REGENERATE	6.7	7.3	6.9	7.1	PPG-TF-115	6.0	6.3	6.7	6.6
TECHNIQUE (RZ2)	6.0	7.3	7.1	7.1	PSG-PO1	6.7	6.3	6.5	6.6
BLOODHOUND (MET 6 SEL)	5.7	6.7	7.2	7.0	RAIN DANCE (PST-5SDT)	5.3	7.0	6.8	6.6
GTO (BURL TF-2)	5.7	7.0	7.1	7.0	REBOUNDER (PICK-W43)	6.0	6.3	6.6	6.6
4TH MILLENNIUM SRP (U43)	6.3	6.7	7.1	7.0	ROCKWELL (LTP-TWUU)	5.0	7.0	6.7	6.6
AMITY (CCR2)	6.0	6.7	7.1	7.0	CAESAR (TY 10)	6.0	6.7	6.6	6.5
IS-TF 311	6.7	7.0	6.9	7.0	EMBRACE (PST-5EV2)	5.0	6.7	6.6	6.5
LEONARDO (LTP-FSD)	5.0	6.7	7.3	7.0	FAITH	6.3	6.0	6.6	6.5
SCREAMER LS (PPG-TF-148)	5.3	7.0	7.1	7.0	STANDOUT (IS-TF 308 SEL)	6.0	7.3	6.4	6.5
VALKYRIE LS (PPG-TF-172)	5.0	6.7	7.3	7.0	TURFWAY (IS-TF 282 M2)	5.7	6.7	6.5	6.5
FIREBIRD 2	5.3	7.3	7.0	7.0	GRANDE 3	5.3	6.0	6.8	6.5
TITANIUM 2LS (PPG-TF-152)	5.7	8.0	6.8	6.9	JS 916	6.0	6.7	6.7	6.5
WICHITA (PPG-TF-151)	5.7	7.0	7.0	6.9	K12-MCD	6.3	7.0	6.5	6.5
PARAMOUNT (PPG-TF-137)	6.3	6.7	7.0	6.9	HOUNDOG8 (IS-TF 307 SEL)	5.3	6.7	6.7	6.5
ROWDY (SRX-TPC)	6.7	6.7	6.9	6.9	PPG-TF-138	5.7	6.3	6.7	6.5
MAESTRO (T31)	6.3	7.0	6.8	6.9	PST-5BRK	5.7	7.3	6.4	6.5
SUPERSONIC (PPG-TF-170)	6.0	6.3	7.0	6.9	PST-5MVD	6.0	6.3	6.5	6.5
RAPTOR III (ZW 44)	6.3	7.0	6.9	6.8	REBEL V (ATF 1736)	6.0	6.7	6.5	6.5
HEMI	5.7	7.7	6.6	6.8	TEMPTATION (OR-21)	5.7	6.7	6.4	6.5
AVENGER II (PPG-TF-156)	5.7	6.7	6.9	6.8	TRENDING (IS-TF 269 SEL)	5.3	7.0	6.4	6.5
ATF 1704	5.3	7.0	6.9	6.8	MERIDIAN (PST-5GRB)	4.7	7.3	6.5	6.5
FIREWALL (PSG-WE1)	6.3	6.3	6.9	6.8	MICHELANGELO (LTP-F5DPDR)	5.0	6.0	6.8	6.5
FIRECRACKER SLS (PPG-TF-105)	5.0	7.0	6.9	6.8	RHAMBLER 2 SRP (LSD)	6.0	6.3	6.6	6.5
HOT ROD (BURL TF-136)	5.7	7.3	6.8	6.8	XTENDER (PPG-TF-139)	5.3	6.3	6.5	6.4
MET 1	5.3	6.7	7.0	6.8	B23	6.0	7.0	6.4	6.4
MET-3	5.7	7.3	6.8	6.8	FAYETTE (IS-TF 291)	5.3	7.0	6.5	6.4
ATF 1754	4.7	6.7	7.1	6.7	PST-5DZP	6.0	7.7	6.2	6.4
BLACK TAIL (PPG-TF-150)	5.3	7.0	6.8	6.7	RHIZING MOON (IS-TF 305 SEL)	5.3	7.0	6.4	6.4
VERT (ATF 1612)	6.3	6.7	6.7	6.7	REFLECTION (U45)	5.7	7.3	6.3	6.4
PST-5BP0	6.3	7.0	6.7	6.7	K12-05	5.3	6.7	6.3	6.3
PST-5EX2	5.7	6.0	6.9	6.7	SALTILLO (PST-5SALT)	5.3	6.7	6.5	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	7.3	6.6	6.7	OLYMPUS (RAD-TF-88)	5.7	6.0	6.4	6.3
KINGDOM (DB1)	6.0	7.3	6.7	6.7	204 RES. BLK4	6.0	6.7	6.3	6.3
W41	5.7	7.0	6.7	6.7	RAD-TF-92	6.0	5.7	6.4	6.3
TRAVERSE 2 SRP (W45)	6.3	6.3	6.8	6.7	SWAGGER (PST-5RO5)	5.7	6.7	6.3	6.3
TRINITY (BIZEM)	5.7	6.3	6.9	6.7	JS 819	6.0	6.7	6.3	6.3
IS-TF-287	5.7	6.3	6.8	6.6	AQUADUCT	5.7	6.7	6.3	6.3
MEMPHIS (GO-DFR)	6.0	7.0	6.5	6.6	BAR FA 121089	4.7	6.3	6.4	6.3
PSG-TT4	5.0	7.3	6.8	6.6	FALCON V	5.7	6.0	6.2	6.3
THOR (PPG-TF-157)	5.3	7.0	6.8	6.6	HOVER (BURL TF-69)	4.7	6.7	6.4	6.3
THUNDERSTRUCK (TD1)	5.7	7.0	6.6	6.6	PSG-GSD	5.0	7.0	6.3	6.3
DIABLO (IS-TF 330)	5.7	6.7	6.7	6.6	TERRANO	6.0	5.7	6.4	6.3
FESNOVA	6.7	6.3	6.7	6.6	DYNAMITE LS (PPG-TF-145)	6.0	7.0	6.1	6.2
PPG-TF-169	6.3	6.7	6.4	6.6	IS-TF 272	6.7	7.0	5.9	6.2

TABLE 23.
(CONT'D)

SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	CA3	IN1	NC1	MEAN
IS-TF 276 M2	4.3	6.7	6.5	6.2
CATALYST	5.7	6.3	6.1	6.2
JS 818	5.7	6.7	6.1	6.2
PSG-8BP2	6.0	7.3	6.0	6.2
UNITUS (IS-TF 289)	6.0	6.7	6.1	6.2
JS 809	6.0	6.0	6.2	6.1
RAD-TF-83	5.3	6.7	6.0	6.1
FRONTLINE (EXP TF-09)	6.3	6.0	6.0	6.1
BULLSEYE	5.3	6.3	6.1	6.0
COMP. RES. SST	5.7	6.3	5.9	6.0
FOXHOUND (IS-TF 284 M2)	6.0	5.7	6.0	6.0
K12-13	5.7	6.3	6.0	6.0
NIGHTCRAWLER (IS-TF 285)	4.7	7.3	6.1	6.0
ARES (PPG-TF-142)	6.0	6.3	5.9	6.0
FALCON IV	5.3	6.7	5.9	5.9
BAR FA 121095	5.0	6.5	5.8	5.9
INSPIRATION (PST-R5NW)	5.3	6.7	5.9	5.9
BAR FA 121091	4.7	6.0	6.2	5.9
MARAUDER	5.7	6.7	5.8	5.9
ANNIHILATOR	6.3	5.7	5.8	5.8
WARHAWK	5.3	5.7	5.8	5.8
JS 825	4.7	6.3	5.8	5.7
BAR FA 120878	5.7	6.0	5.5	5.5
KY-31	5.0	4.0	5.5	5.2
LSD VALUE	1.4	1.1	1.1	1.0
C.V. (%)	14.7	10.1	11.6	11.4

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 24. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

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

NAME	AR1	CA3	IN1	NC1	OK1	MEAN
REFLECTION (U45)	7.0	7.5	6.8	6.8	6.2	7.1
4TH MILLENNIUM SRP (U43)	6.8	7.1	6.8	7.2	5.2	6.9
AMITY (CCR2)	6.8	6.9	7.3	6.7	6.3	6.9
MERIDIAN (PST-5GRB)	8.0	6.5	7.3	6.7	6.5	6.9
IS-TF 311	7.2	7.0	6.6	6.9	6.2	6.9
FIREWALL (PSG-WE1)	7.0	7.4	6.2	6.7	6.0	6.8
MET-3	7.0	7.0	6.4	7.4	5.8	6.8
ROWDY (SRX-TPC)	7.2	6.9	6.6	7.0	6.2	6.8
HOT ROD (BURL TF-136)	7.3	7.1	6.3	7.0	5.5	6.8
TECHNIQUE (RZ2)	6.7	6.9	6.6	7.2	6.0	6.8
PPG-TF-135	6.8	7.0	6.7	7.0	6.0	6.8
BLACK TAIL (PPG-TF-150)	6.7	6.8	6.7	6.9	6.2	6.8
STANDOUT (IS-TF 308 SEL)	6.7	6.9	6.8	7.1	5.3	6.8
PARAMOUNT (PPG-TF-137)	7.3	6.7	6.9	7.3	5.5	6.8
REGENERATE	7.0	7.1	6.9	6.8	5.0	6.7
FIRECRACKER SLS (PPG-TF-105)	6.7	6.8	6.8	7.2	5.5	6.7
F711	7.0	6.8	6.3	7.4	5.5	6.7
MET 1	7.2	6.5	6.8	7.1	6.0	6.7
TRINITY (BIZEM)	7.2	7.1	6.3	6.7	5.7	6.7
DIABLO (IS-TF 330)	6.8	7.0	6.4	6.8	5.5	6.7
FIREBIRD 2	7.3	6.6	6.7	6.9	5.8	6.7
GRANDE 3	7.0	6.6	6.4	7.2	6.2	6.7
HOUNDOG8 (IS-TF 307 SEL)	7.0	6.7	6.6	6.8	6.2	6.7
ROCKWELL (LTP-TWUU)	7.2	6.9	6.1	6.9	5.8	6.7
EMBRACE (PST-5EV2)	6.5	6.5	6.3	7.2	6.5	6.6
HEMI	7.2	6.8	6.7	6.6	5.3	6.6
VALKYRIE LS (PPG-TF-172)	6.7	6.6	6.4	7.6	5.7	6.6
K12-MCD	6.8	7.0	5.8	6.9	6.0	6.6
SCREAMER LS (PPG-TF-148)	6.7	6.8	6.3	6.7	5.5	6.6
OLYMPUS (RAD-TF-88)	7.0	6.8	6.7	6.7	4.3	6.6
PPG-TF-169	7.0	6.5	6.4	7.1	6.3	6.6
TEMPLE (DZ1)	7.3	6.9	6.3	6.4	5.2	6.6
ATF 1704	6.7	6.6	6.0	7.3	6.2	6.6
TITANIUM 2LS (PPG-TF-152)	6.7	6.3	6.6	7.4	5.8	6.5
PPG-TF-115	6.5	7.0	6.3	6.1	6.2	6.5
PSG-PO1	7.2	6.7	6.2	6.9	5.8	6.5
KINGDOM (DB1)	7.2	6.8	6.2	7.1	5.2	6.5
THOR (PPG-TF-157)	6.8	6.3	6.7	6.7	6.3	6.5
WICHITA (PPG-TF-151)	6.5	6.2	6.4	7.4	6.2	6.5
MAESTRO (T31)	6.7	6.5	6.3	6.8	6.2	6.5
FALCON V	6.7	6.8	6.3	6.8	5.8	6.5
BLOODHOUND (MET 6 SEL)	6.3	6.5	6.8	7.0	5.5	6.5
CATALYST	6.8	6.6	6.4	7.1	4.8	6.5
W41	7.0	6.3	6.6	6.6	6.2	6.5
PPG-TF-138	7.0	6.4	6.3	6.9	6.0	6.5
GTO (BURL TF-2)	6.5	6.8	6.0	6.9	5.8	6.5

TABLE 24. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

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

NAME	AR1	CA3	IN1	NC1	OK1	MEAN
TERRANO	7.0	6.3	6.0	6.9	6.5	6.5
THUNDERSTRUCK (TD1)	7.2	6.6	6.0	6.6	6.0	6.5
TRAVERSE 2 SRP (W45)	7.2	6.2	6.7	6.8	5.8	6.5
FESNOVA	7.0	6.7	6.2	6.3	6.0	6.4
FOXHOUND (IS-TF 284 M2)	7.0	6.7	5.9	6.6	6.0	6.4
K12-05	7.2	6.4	6.2	6.6	5.7	6.4
JS 916	7.0	6.5	6.0	6.8	6.3	6.4
REBOUNDER (PICK-W43)	7.0	6.0	6.4	7.1	6.0	6.4
RAD-TF-89	7.7	6.7	6.1	6.3	5.0	6.4
RHAMBLER 2 SRP (LSD)	6.8	6.2	6.5	6.8	6.0	6.4
LEONARDO (LTP-FSD)	6.5	6.2	6.2	6.7	6.3	6.4
MICHELANGELO (LTP-F5DPDR)	7.0	6.3	6.3	6.8	6.0	6.4
TRENDING (IS-TF 269 SEL)	7.0	6.3	6.4	6.4	6.0	6.4
IS-TF 272	7.5	6.5	6.1	6.2	6.0	6.4
SALTILLO (PST-5SALT)	7.0	6.6	5.8	6.8	6.2	6.4
PST-5DZP	6.5	6.5	5.9	6.4	6.2	6.3
BAR FA 121095	6.7	6.8	5.8	6.2	5.5	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	7.5	6.0	6.3	6.7	5.8	6.3
RAPTOR III (ZW 44)	7.2	6.0	6.6	7.0	5.5	6.3
DYNAMITE LS (PPG-TF-145)	7.5	6.2	6.3	6.6	5.7	6.3
IS-TF 276 M2	7.0	6.3	6.0	6.6	6.2	6.3
NIGHTCRAWLER (IS-TF 285)	7.3	6.2	6.5	6.4	5.0	6.3
PSG-GSD	7.0	6.1	5.9	6.7	6.5	6.3
204 RES. BLK4	6.7	6.9	5.3	6.4	5.5	6.3
RAD-TF-92	7.3	6.4	6.4	6.4	4.7	6.3
RHIZING MOON (IS-TF 305 SEL)	7.0	6.0	6.2	6.8	6.2	6.3
ATF 1754	6.2	6.1	6.8	6.6	5.2	6.3
FAITH	6.7	6.5	6.1	6.3	6.0	6.3
XTENDER (PPG-TF-139)	6.8	6.1	6.3	6.7	5.3	6.3
SUPERSONIC (PPG-TF-170)	6.8	6.0	6.8	6.8	5.2	6.3
UNITUS (IS-TF 289)	6.7	6.0	6.4	6.6	6.3	6.3
BULLSEYE	7.3	6.2	6.2	5.9	6.0	6.3
HOVER (BURL TF-69)	6.8	6.3	6.6	6.2	4.8	6.3
FAYETTE (IS-TF 291)	6.8	6.2	6.4	6.3	6.0	6.2
B23	7.3	6.2	6.3	6.9	5.3	6.2
PST-5BP0	6.7	6.3	6.2	6.8	5.7	6.2
AVENGER II (PPG-TF-156)	6.7	5.8	6.5	6.9	5.5	6.2
MEMPHIS (GO-DFR)	6.8	6.2	6.0	6.4	6.3	6.2
JS 818	6.5	6.3	5.8	6.3	6.2	6.2
K12-13	7.3	6.3	6.1	6.0	5.7	6.2
VERT (ATF 1612)	6.7	6.0	6.3	6.6	5.7	6.2
ARES (PPG-TF-142)	7.5	5.9	6.4	6.3	5.3	6.2
TURFWAY (IS-TF 282 M2)	6.8	6.0	6.1	6.4	6.5	6.2
FALCON IV	7.0	6.7	5.9	6.0	5.3	6.2
PSG-8BP2	6.7	6.2	5.8	6.2	6.3	6.2
COMP. RES. SST	6.8	6.5	5.4	6.6	4.0	6.1
REBEL V (ATF 1736)	6.7	6.2	5.9	6.0	5.8	6.1

TABLE 24. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						
NAME	AR1	CA3	IN1	NC1	OK1	MEAN
JS 809	6.7	6.3	5.6	6.3	5.7	6.1
PST-5EX2	7.0	6.0	5.8	6.6	5.8	6.1
IS-TF-287	6.7	6.1	5.8	6.3	6.0	6.1
PST-5MVD	6.7	5.8	6.3	6.4	5.8	6.1
INSPIRATION (PST-R5NW)	6.3	6.4	5.7	6.2	5.3	6.1
RAD-TF-83	7.7	5.9	6.2	6.0	4.7	6.1
PST-5BRK	6.8	5.8	6.0	6.8	6.0	6.0
TEMPTATION (OR-21)	6.5	6.1	5.4	6.7	6.2	6.0
RAIN DANCE (PST-5SDT)	6.3	6.1	5.5	6.4	6.0	6.0
CAESAR (TY 10)	6.7	6.2	5.5	6.3	5.5	6.0
BAR FA 121091	6.7	6.0	5.6	6.3	5.3	6.0
SWAGGER (PST-5R05)	6.5	6.0	5.5	6.1	6.3	5.9
JS 819	6.7	5.7	5.6	6.2	6.2	5.9
ANNIHILATOR	6.8	6.2	5.3	6.1	4.3	5.9
FRONTLINE (EXP TF-09)	6.8	5.7	5.5	6.2	5.3	5.8
AQUADUCT	6.7	5.5	5.6	6.6	5.2	5.8
MARAUDER	6.5	5.9	5.3	6.3	3.8	5.7
BAR FA 121089	6.2	5.7	5.1	6.2	5.5	5.6
PSG-TT4	6.3	5.2	5.5	6.7	5.7	5.6
WARHAWK	6.5	5.6	5.0	6.3	5.5	5.6
BAR FA 120878	6.0	5.9	5.1	5.3	5.3	5.6
JS 825	6.2	5.0	5.3	6.4	5.8	5.5
KY-31	5.3	4.0	4.0	4.6	4.3	4.4
LSD VALUE	0.9	1.1	1.2	1.2	1.3	0.7
C.V. (%)	8.3	10.8	11.6	12.0	14.4	11.0

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 25.

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

NAME	CA3	NC1	OK1	MEAN	NAME	CA3	NC1	OK1	MEAN
PARAMOUNT (PPG-TF-137)	7.0	7.8	6.1	7.1	MAESTRO (T31)	6.3	7.2	5.9	6.6
RAPTOR III (ZW 44)	7.0	7.8	5.7	7.0	MEMPHIS (GO-DFR)	6.0	7.3	5.7	6.6
MERIDIAN (PST-5GRB)	6.0	7.6	6.1	7.0	RHAMBLER 2 SRP (LSD)	6.7	7.4	5.6	6.5
THOR (PPG-TF-157)	6.3	7.7	6.0	7.0	ROWDY (SRX-TPC)	6.7	7.4	5.4	6.5
F711	6.7	7.8	5.8	7.0	CROSSFIRE 4 (IS-TF 310 SEL)	6.0	7.3	6.0	6.5
EMBRACE (PST-5EV2)	6.7	7.7	6.2	7.0	SALTILLO (PST-5SALT)	5.7	7.3	5.4	6.5
SUPERSONIC (PPG-TF-170)	7.0	7.7	5.8	6.9	FESNOVA	7.0	7.2	5.4	6.5
PST-5EX2	6.3	7.6	5.8	6.9	FIRECRACKER SLS (PPG-TF-105)	5.7	7.6	5.3	6.5
PPG-TF-135	7.0	7.7	5.9	6.9	MET 1	5.3	7.6	5.3	6.5
MET-3	5.7	7.8	5.9	6.9	CAESAR (TY 10)	6.7	7.0	5.6	6.5
GTO (BURL TF-2)	6.7	7.7	5.8	6.9	PPG-TF-138	6.0	7.3	5.8	6.5
AMITY (CCR2)	6.7	7.5	6.3	6.9	K12-MCD	6.0	7.3	5.8	6.5
PST-5BP0	6.7	7.7	5.7	6.9	RHIZING MOON (IS-TF 305 SEL)	6.0	7.2	5.7	6.4
HOT ROD (BURL TF-136)	7.0	7.6	6.0	6.8	VERT (ATF 1612)	6.3	7.3	5.4	6.4
TECHNIQUE (RZ2)	6.0	7.7	6.2	6.8	FAYETTE (IS-TF 291)	6.3	7.3	5.3	6.4
LEONARDO (LTP-FSD)	6.0	7.7	5.7	6.8	SCREAMER LS (PPG-TF-148)	6.7	7.3	5.6	6.4
RAIN DANCE (PST-5SDT)	6.3	7.4	5.9	6.8	BLOODHOUND (MET 6 SEL)	7.0	7.3	5.8	6.4
HOUNDOG8 (IS-TF 307 SEL)	6.0	7.6	6.0	6.8	4TH MILLENNIUM SRP (U43)	6.7	7.3	5.3	6.4
TITANIUM 2LS (PPG-TF-152)	6.7	7.7	5.9	6.8	ROCKWELL (LTP-TWUU)	6.0	7.4	5.3	6.4
TRAVERSE 2 SRP (W45)	6.0	7.7	5.9	6.8	DYNAMITE LS (PPG-TF-145)	6.7	7.2	5.3	6.4
TRENDING (IS-TF 269 SEL)	6.0	7.6	5.7	6.7	IS-TF 311	6.3	7.0	6.1	6.4
PST-5BRK	6.3	7.5	5.6	6.7	FAITH	6.3	7.1	5.8	6.4
W41	7.0	7.5	5.6	6.7	PSG-8BP2	6.0	6.8	5.9	6.4
MICHELANGELO (LTP-F5DPDR)	6.3	7.5	5.6	6.7	REBOUNDER (PICK-W43)	5.3	7.2	6.0	6.4
STANDOUT (IS-TF 308 SEL)	7.0	7.5	5.7	6.7	PPG-TF-169	7.0	7.3	5.6	6.3
TERRANO	7.0	7.3	6.0	6.7	UNITUS (IS-TF 289)	7.0	7.1	5.3	6.3
TRINITY (BIZEM)	6.3	7.7	5.3	6.7	SWAGGER (PST-5RO5)	7.3	6.9	5.6	6.3
JS 916	6.0	7.5	5.8	6.7	TURFWAY (IS-TF 282 M2)	5.3	7.1	5.9	6.3
AVENGER II (PPG-TF-156)	6.3	7.4	6.0	6.7	BAR FA 121089	5.3	7.3	5.1	6.3
GRANDE 3	5.7	7.5	5.8	6.7	AQUADUCT	5.3	6.9	5.7	6.3
WICHITA (PPG-TF-151)	6.3	7.7	5.3	6.7	BULLSEYE	6.3	6.8	5.8	6.3
FOXHOUND (IS-TF 284 M2)	6.3	7.3	6.0	6.7	PSG-PO1	5.7	7.3	5.6	6.3
IS-TF 276 M2	5.7	7.5	5.7	6.7	PST-5DZP	6.7	6.8	6.0	6.3
TEMPTATION (OR-21)	6.7	7.3	5.8	6.7	B23	6.3	7.2	5.4	6.3
FIREWALL (PSG-WEL)	6.3	7.5	5.6	6.6	REGENERATE	7.0	7.3	5.0	6.3
DIABLO (IS-TF 330)	7.3	7.3	5.8	6.6	PST-5MVD	6.0	7.2	5.2	6.2
PPG-TF-115	6.3	7.3	5.6	6.6	THUNDERSTRUCK (TD1)	5.7	7.2	5.3	6.2
VALKYRIE LS (PPG-TF-172)	5.7	7.6	5.8	6.6	PSG-TT4	6.3	7.1	5.1	6.2
K12-05	6.0	7.3	5.9	6.6	IS-TF 272	7.0	6.8	6.0	6.2
XTENDER (PPG-TF-139)	6.0	7.3	6.0	6.6	JS 818	6.0	7.2	5.0	6.2
FIREBIRD 2	6.3	7.3	5.9	6.6	K12-13	6.0	7.0	5.0	6.2
REBEL V (ATF 1736)	6.7	7.2	5.7	6.6	TEMPLE (DZ1)	6.0	6.9	5.7	6.2
ATF 1704	6.7	7.5	5.6	6.6	BAR FA 121091	4.7	7.1	5.2	6.1
BLACK TAIL (PPG-TF-150)	6.7	7.4	5.8	6.6	FALCON V	6.7	7.0	5.6	6.1
REFLECTION (U45)	6.3	7.3	5.9	6.6	PSG-GSD	6.0	6.8	5.4	6.1
IS-TF-287	7.3	7.1	6.0	6.6	BAR FA 121095	6.7	6.8	5.3	6.1

TABLE 25. FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

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

NAME	CA3	NC1	OK1	MEAN
RAD-TF-89	6.3	7.1	5.1	6.1
JS 809	5.0	7.1	4.9	6.1
KINGDOM (DB1)	5.7	7.2	4.7	6.0
ATF 1754	5.0	7.0	5.0	6.0
ARES (PPG-TF-142)	5.7	6.7	5.6	6.0
HEMI	7.3	6.9	5.2	6.0
INSPIRATION (PST-R5NW)	6.7	6.5	5.4	6.0
FRONTLINE (EXP TF-09)	7.0	6.5	4.9	5.9
RAD-TF-92	5.7	6.9	5.0	5.9
OLYMPUS (RAD-TF-88)	6.7	7.1	4.4	5.9
NIGHTCRAWLER (IS-TF 285)	5.3	6.8	5.2	5.9
CATALYST	6.3	6.7	5.3	5.8
HOVER (BURL TF-69)	6.7	7.0	4.7	5.8
JS 825	5.3	6.7	4.9	5.8
204 RES. BLK4	5.0	6.8	4.6	5.8
FALCON IV	7.0	6.4	5.1	5.8
JS 819	5.0	6.6	5.0	5.7
RAD-TF-83	6.3	6.7	4.6	5.7
WARHAWK	6.0	6.4	5.1	5.7
BAR FA 120878	5.3	6.1	5.1	5.7
ANNIHILATOR	5.7	6.6	4.4	5.6
COMP. RES. SST	5.7	6.6	4.0	5.3
MARAUDER	6.0	6.5	4.2	5.3
KY-31	4.7	5.5	4.6	5.3
LSD VALUE	1.7	1.0	1.2	1.0
C.V. (%)	17.1	9.2	13.1	12.4

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.

3/

TABLE 26. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
PST-5BRK	88.0	80.0	85.0	94.6	95.2	96.7	93.7
TECHNIQUE (RZ2)	89.0	76.7	65.0	97.6	95.3	96.8	93.6
PST-5EX2	87.7	70.0	76.7	96.7	96.0	96.5	93.5
TRAVERSE 2 SRP (W45)	85.7	73.3	83.3	95.7	92.5	97.1	93.2
EMBRACE (PST-5EV2)	86.2	73.3	76.7	95.3	96.3	96.8	93.2
F711	90.0	70.0	81.7	97.7	85.0	96.9	93.1
VALKYRIE LS (PPG-TF-172)	86.0	73.3	73.3	97.3	93.0	96.4	93.1
MICHELANGELO (LTP-F5DPDR)	85.2	70.0	76.7	96.7	93.3	96.8	92.9
TERRANO	84.8	80.0	76.7	95.0	94.3	96.7	92.9
ROWDY (SRX-TPC)	85.8	75.0	80.0	94.9	93.5	96.7	92.9
SUPERSONIC (PPG-TF-170)	84.7	80.0	85.0	93.5	93.5	96.7	92.8
WICHITA (PPG-TF-151)	87.8	70.0	70.0	96.4	92.8	96.9	92.7
GTO (BURL TF-2)	87.0	73.3	70.0	97.5	90.2	96.2	92.7
TRINITY (BIZEM)	88.7	76.7	68.3	96.6	89.8	96.7	92.7
PST-5BP0	86.3	76.7	75.0	95.1	92.2	96.5	92.6
CROSSFIRE 4 (IS-TF 310 SEL)	85.3	80.0	73.3	93.5	95.7	96.8	92.6
AMITY (CCR2)	89.3	73.3	75.0	95.2	90.3	96.5	92.6
FAITH	87.0	73.3	76.7	95.5	91.0	96.4	92.5
SWAGGER (PST-5RO5)	85.2	66.7	85.0	94.2	94.3	96.8	92.5
K12-MCD	82.3	73.3	76.7	95.1	94.0	96.8	92.4
MET-3	88.8	76.7	75.0	98.0	82.2	96.6	92.4
MET 1	88.7	66.7	85.0	96.9	82.5	96.8	92.3
BLOODHOUND (MET 6 SEL)	87.5	73.3	70.0	95.4	90.8	96.3	92.3
RAPTOR III (ZW 44)	89.2	81.7	78.3	94.8	83.8	96.8	92.3
AVENGER II (PPG-TF-156)	87.2	60.0	73.3	95.6	94.2	96.7	92.3
LEONARDO (LTP-FSD)	89.2	63.3	86.7	95.1	88.7	96.7	92.3
STANDOUT (IS-TF 308 SEL)	85.2	73.3	71.7	96.3	88.8	96.7	92.3
REBOUNDER (PICK-W43)	88.7	66.7	76.7	96.4	88.2	96.9	92.3
BLACK TAIL (PPG-TF-150)	86.2	75.0	78.3	94.0	91.3	96.2	92.3
IS-TF-287	81.0	73.3	76.7	94.9	93.3	96.7	92.2
FIREBIRD 2	86.7	73.3	76.7	93.9	92.0	96.3	92.2
TITANIUM 2LS (PPG-TF-152)	86.3	76.7	71.7	96.9	88.0	96.3	92.2
AQUADUCT	80.0	71.7	75.0	96.7	91.5	96.7	92.2
FESNOVA	84.3	76.7	78.3	94.7	89.0	96.8	92.2
MAESTRO (T31)	85.5	73.3	73.3	94.9	91.2	96.7	92.2
PSG-GSD	83.2	73.3	80.0	94.5	91.5	96.8	92.1
4TH MILLENNIUM SRP (U43)	86.8	80.0	80.0	96.9	80.5	96.5	92.1
ATF 1704	84.7	70.0	75.0	97.5	87.0	96.5	92.1
PARAMOUNT (PPG-TF-137)	87.5	76.7	76.7	94.4	87.3	96.8	92.0
PPG-TF-169	84.0	86.7	81.7	96.9	81.2	96.2	92.0
RAIN DANCE (PST-5SDT)	83.8	66.7	68.3	96.3	94.3	96.4	92.0
PST-5MVD	85.8	80.0	76.7	94.3	88.5	96.3	91.9
RHAMBLER 2 SRP (LSD)	84.2	70.0	78.3	93.7	91.2	96.9	91.8
HOT ROD (BURL TF-136)	83.3	68.3	71.7	96.2	90.8	96.0	91.8
ROCKWELL (LTP-TWUU)	89.5	66.7	76.7	97.1	80.8	96.8	91.7
XTENDER (PPG-TF-139)	83.7	71.7	71.7	93.9	92.8	96.8	91.7
GRANDE 3	86.0	63.3	73.3	97.1	88.2	96.0	91.6

TABLE 26. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
CAESAR (TY 10)	80.2	76.7	81.7	95.9	85.5	96.7	91.6
THOR (PPG-TF-157)	86.7	66.7	66.7	94.3	91.7	97.1	91.6
HOUNDOG8 (IS-TF 307 SEL)	81.3	76.7	65.0	93.3	95.8	96.8	91.6
REFLECTION (U45)	87.5	73.3	73.3	92.9	90.2	96.7	91.6
MERIDIAN (PST-5GRB)	86.3	66.7	76.7	95.0	89.0	96.6	91.5
IS-TF 311	87.7	70.0	65.0	94.1	90.2	96.7	91.5
FIRECRACKER SLS (PPG-TF-105)	86.7	76.7	78.3	95.8	80.2	96.8	91.5
TURFWAY (IS-TF 282 M2)	80.5	76.7	75.0	91.6	94.5	97.0	91.4
PPG-TF-135	85.2	80.0	65.0	95.7	83.3	96.6	91.3
PPG-TF-138	85.8	66.7	68.3	93.2	92.2	96.8	91.3
DIABLO (IS-TF 330)	78.5	73.3	75.0	92.8	94.2	96.8	91.2
ATF 1754	87.2	73.3	68.3	96.3	79.2	96.4	91.0
PSG-TT4	81.8	66.7	71.7	94.8	89.7	96.3	90.9
REBEL V (ATF 1736)	88.8	70.0	76.7	92.7	85.2	96.5	90.9
TRENDING (IS-TF 269 SEL)	85.7	66.7	76.7	92.3	88.2	96.8	90.8
SCREAMER LS (PPG-TF-148)	84.8	66.7	78.3	95.3	78.3	96.7	90.8
B23	84.0	76.7	83.3	94.1	77.8	96.6	90.8
KY-31	84.8	61.7	85.0	92.3	94.3	94.3	90.7
SALTILLO (PST-5SALT)	82.3	73.3	76.7	92.0	88.7	96.4	90.7
PSG-PO1	83.7	73.3	80.0	94.5	81.8	96.5	90.7
REGENERATE	85.0	80.0	83.3	94.3	71.7	96.7	90.7
RAD-TF-89	84.5	73.3	78.3	94.8	77.7	96.1	90.7
PSG-8BP2	81.0	73.3	68.3	92.4	93.3	96.1	90.7
FALCON IV	82.8	66.7	78.3	94.5	86.3	95.8	90.6
IS-TF 276 M2	79.8	63.3	76.7	94.7	88.7	96.5	90.6
FIREWALL (PSG-WE1)	85.5	73.3	70.0	94.9	79.2	96.8	90.6
PPG-TF-115	84.7	73.3	78.3	91.1	86.5	96.8	90.6
TEMPLE (DZ1)	76.7	76.7	71.7	92.6	92.2	96.2	90.5
BAR FA 120878	78.7	76.7	76.7	94.3	86.8	95.3	90.5
INSPIRATION (PST-R5NW)	80.2	70.0	65.0	93.3	91.5	96.4	90.4
JS 916	80.3	76.7	73.3	92.7	85.5	96.4	90.3
CATALYST	86.7	68.3	80.0	95.9	76.3	96.3	90.3
FALCON V	87.7	63.3	78.3	95.1	78.0	96.2	90.3
UNITUS (IS-TF 289)	80.3	70.0	76.7	92.8	87.2	96.4	90.3
W41	86.3	66.7	71.7	90.9	87.7	96.5	90.3
FOXHOUND (IS-TF 284 M2)	81.3	73.3	65.0	90.6	95.2	96.0	90.2
HEMI	84.3	76.7	73.3	91.5	86.7	96.5	90.2
K12-05	79.0	70.0	71.7	92.5	89.3	96.4	90.1
FRONTLINE (EXP TF-09)	80.0	68.3	68.3	94.4	87.8	96.3	90.1
VERT (ATF 1612)	86.3	66.7	71.7	93.8	80.5	96.7	90.0
JS 819	77.0	70.0	75.0	91.9	90.3	96.1	90.0
TEMPTATION (OR-21)	77.0	63.3	70.0	93.7	89.3	96.8	89.9
NIGHTCRAWLER (IS-TF 285)	81.0	66.7	75.0	92.4	83.8	96.9	89.8
BAR FA 121089	84.8	66.7	68.3	93.1	83.8	95.8	89.7
BULLSEYE	84.8	70.0	71.7	90.3	86.7	96.7	89.7
RHIZING MOON (IS-TF 305 SEL)	79.7	66.7	70.0	91.3	89.0	96.2	89.5
MEMPHIS (GO-DFR)	81.0	66.7	68.3	91.5	87.2	96.7	89.4

TABLE 26. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
IS-TF 272	84.3	76.7	61.7	90.5	85.0	96.6	89.3
JS 809	72.8	73.3	75.0	92.0	84.2	96.4	89.2
JS 818	74.8	68.3	68.3	91.9	87.3	96.3	89.0
FAYETTE (IS-TF 291)	81.3	60.0	83.3	90.2	82.0	96.8	89.0
BAR FA 121091	78.5	60.0	73.3	92.9	82.5	96.3	89.0
HOVER (BURL TF-69)	76.2	73.3	75.0	93.9	75.8	96.1	88.9
PST-5DZP	80.2	63.3	66.7	90.9	85.5	96.7	88.7
KINGDOM (DB1)	77.7	80.0	70.0	92.3	74.7	96.5	88.6
RAD-TF-83	82.2	70.0	75.0	92.1	72.5	96.4	88.4
THUNDERSTRUCK (TD1)	77.8	73.3	73.3	91.1	76.5	96.5	88.3
ARES (PPG-TF-142)	73.8	71.7	66.7	89.5	85.8	96.8	88.3
WARHAWK	71.7	66.7	70.0	92.7	80.3	96.9	88.1
JS 825	72.7	63.3	75.0	90.5	84.8	95.8	88.0
BAR FA 121095	78.0	70.0	66.7	87.8	87.7	95.9	88.0
OLYMPUS (RAD-TF-88)	83.2	76.7	73.3	93.8	57.5	96.2	87.5
204 RES. BLK4	79.5	70.0	78.3	93.6	60.0	96.6	87.4
DYNAMITE LS (PPG-TF-145)	74.8	80.0	61.7	89.3	81.2	96.2	87.3
RAD-TF-92	82.5	73.3	71.7	92.5	60.8	96.3	87.3
ANNIHILATOR	74.5	73.3	78.3	91.4	64.2	96.7	86.7
K12-13	74.3	66.7	66.7	88.5	73.5	94.7	85.6
MARAUDER	73.0	63.3	75.0	91.1	52.5	97.3	84.7
COMP. RES. SST	66.7	70.0	78.3	92.6	32.5	95.8	82.1
LSD VALUE	7.9	13.7	11.8	6.2	20.2	1.2	4.7
C.V. (%)	5.9	11.9	9.8	4.2	15.1	0.8	5.9

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 27. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
TRINITY (BIZEM)	75.7	73.3	95.8	98.6	80.7	94.5	92.4
TERRANO	76.8	76.7	96.2	98.8	89.0	93.6	92.3
THOR (PPG-TF-157)	76.8	73.3	95.3	97.0	82.3	94.1	92.0
FESNOVA	77.3	63.3	95.8	96.9	85.7	93.6	91.2
PPG-TF-135	78.2	73.3	95.2	98.1	79.3	92.3	91.2
AMITY (CCR2)	81.7	63.3	93.3	96.3	85.7	92.8	91.0
W41	68.0	66.7	95.2	94.7	85.0	94.4	91.0
BAR FA 121095	70.2	63.3	94.3	93.6	78.0	94.7	90.9
BLACK TAIL (PPG-TF-150)	74.3	66.7	96.2	97.3	86.0	92.4	90.9
RHAMBLER 2 SRP (LSD)	76.2	76.7	96.7	96.7	88.7	93.2	90.9
TITANIUM 2LS (PPG-TF-152)	76.7	70.0	96.0	98.8	83.3	92.8	90.9
PPG-TF-138	72.5	73.3	95.0	97.3	83.3	92.7	90.8
FALCON IV	70.8	66.7	95.7	95.6	81.0	93.8	90.8
F711	78.3	46.7	97.3	98.9	75.0	94.3	90.8
DYNAMITE LS (PPG-TF-145)	78.7	60.0	93.5	95.2	79.7	94.4	90.8
B23	78.3	76.7	97.0	97.2	83.0	91.9	90.7
K12-MCD	74.7	63.3	95.5	97.3	87.3	93.0	90.7
SUPERSONIC (PPG-TF-170)	79.3	63.3	96.7	97.2	71.0	93.3	90.4
SALTILLO (PST-5SALT)	76.5	73.3	96.7	96.1	85.7	91.6	90.4
FIRECRACKER SLS (PPG-TF-105)	77.3	66.7	95.7	98.3	71.7	93.2	90.4
XTENDER (PPG-TF-139)	74.5	66.7	95.3	95.6	84.7	93.5	90.4
HOVER (BURL TF-69)	74.3	63.3	94.8	96.8	81.0	92.6	90.4
REGENERATE	73.7	70.0	97.2	94.0	75.0	92.3	90.3
PST-5MVD	75.8	70.0	96.0	96.6	82.7	90.8	90.2
FALCON V	75.3	63.3	95.5	97.2	86.3	92.1	90.2
MET-3	78.0	66.7	95.2	98.0	74.7	92.6	90.1
IS-TF 311	67.3	70.0	92.0	97.0	88.0	93.2	90.1
SCREAMER LS (PPG-TF-148)	78.2	66.7	95.5	97.1	81.7	91.7	90.1
REFLECTION (U45)	76.7	73.3	94.3	97.9	86.3	91.3	90.0
TEMPLE (DZ1)	74.3	66.7	95.3	98.0	85.3	92.3	90.0
4TH MILLENNIUM SRP (U43)	75.0	80.0	95.0	98.4	66.0	92.3	90.0
INSPIRATION (PST-R5NW)	72.0	60.0	94.5	96.2	85.7	92.8	90.0
FAITH	69.2	70.0	95.7	97.6	84.3	92.6	90.0
TECHNIQUE (RZ2)	77.0	66.7	95.3	98.8	83.7	90.3	90.0
PST-5EX2	77.7	63.3	96.0	96.9	93.0	91.7	90.0
BAR FA 120878	75.5	60.0	95.5	94.1	70.0	92.9	89.9
SWAGGER (PST-5RO5)	75.5	66.7	97.0	96.9	84.3	92.2	89.8
TRAVERSE 2 SRP (W45)	74.7	70.0	97.3	96.9	82.7	91.8	89.8
DIABLO (IS-TF 330)	71.7	70.0	94.5	97.3	86.7	92.3	89.7
BLOODHOUND (MET 6 SEL)	78.0	63.3	94.7	98.0	87.3	91.1	89.7
RAD-TF-89	68.7	60.0	96.0	97.6	81.0	91.3	89.6
ARES (PPG-TF-142)	71.7	60.0	94.7	96.2	90.0	91.2	89.5
BULLSEYE	73.8	66.7	94.7	94.6	83.3	92.4	89.5
MERIDIAN (PST-5GRB)	72.3	63.3	94.7	97.2	89.0	91.4	89.5
TRENDING (IS-TF 269 SEL)	73.2	63.3	96.0	96.1	85.7	91.9	89.5
GTO (BURL TF-2)	74.5	66.7	95.0	98.0	81.7	91.8	89.4
AVENGER II (PPG-TF-156)	77.2	60.0	95.7	97.1	85.0	91.5	89.4

TABLE 27. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
THUNDERSTRUCK (TD1)	72.8	63.3	93.5	96.2	76.3	92.8	89.4
PSG-TT4	72.2	56.7	94.7	95.4	70.0	92.9	89.4
RAIN DANCE (PST-5SDT)	77.3	70.0	92.7	97.9	89.3	89.8	89.4
NIGHTCRAWLER (IS-TF 285)	68.3	66.7	95.7	97.1	82.7	92.1	89.4
BAR FA 121091	69.7	63.3	93.0	93.4	79.3	92.1	89.4
PSG-GSD	76.3	70.0	96.7	96.6	79.3	91.5	89.3
RAPTOR III (ZW 44)	72.8	60.0	96.5	96.6	69.7	92.9	89.3
IS-TF-287	76.0	70.0	96.2	97.2	86.0	90.6	89.3
KY-31	76.2	73.3	95.5	88.6	74.3	90.9	89.1
PST-5BRK	81.0	70.0	96.5	98.0	80.0	90.3	88.9
LEONARDO (LTP-FSD)	77.7	63.3	97.0	97.0	83.3	91.1	88.9
PST-5BP0	76.5	66.7	94.2	97.6	84.7	89.8	88.9
CROSSFIRE 4 (IS-TF 310 SEL)	66.7	73.3	95.8	98.2	86.0	90.8	88.8
ATF 1704	77.8	63.3	94.5	98.1	80.3	90.1	88.8
TURFWAY (IS-TF 282 M2)	73.8	76.7	94.0	94.3	91.0	89.9	88.7
FOXHOUND (IS-TF 284 M2)	69.5	63.3	93.5	97.6	92.7	91.6	88.7
FAYETTE (IS-TF 291)	74.3	50.0	95.2	96.0	69.7	92.8	88.7
EMBRACE (PST-5EV2)	78.5	66.7	95.3	98.3	91.3	89.0	88.6
PPG-TF-115	72.0	70.0	95.2	94.0	71.0	92.1	88.6
K12-05	66.7	53.3	94.5	95.4	71.7	92.3	88.6
ROWDY (SRX-TPC)	71.7	63.3	95.3	98.4	85.0	91.3	88.6
PARAMOUNT (PPG-TF-137)	71.0	60.0	96.0	97.4	84.0	90.0	88.5
PST-5DZP	70.0	60.0	94.0	96.1	83.7	89.8	88.5
KINGDOM (DB1)	69.5	73.3	95.3	97.0	75.0	89.7	88.4
CAESAR (TY 10)	69.8	53.3	96.2	96.2	74.0	90.8	88.4
RAD-TF-92	74.0	63.3	93.8	97.6	56.3	90.9	88.4
BAR FA 121089	71.5	63.3	93.8	95.6	69.3	91.3	88.2
HOUNDOG8 (IS-TF 307 SEL)	69.3	66.7	94.5	97.1	91.7	89.9	88.1
STANDOUT (IS-TF 308 SEL)	70.8	63.3	93.0	97.3	85.0	90.0	88.0
WICHITA (PPG-TF-151)	76.8	53.3	95.3	97.0	86.0	89.4	88.0
REBEL V (ATF 1736)	77.5	73.3	94.5	95.4	82.7	89.4	88.0
JS 916	73.3	63.3	95.8	97.4	83.3	89.9	88.0
JS 825	63.5	56.7	95.5	95.4	77.3	91.5	87.9
OLYMPUS (RAD-TF-88)	70.7	63.3	95.2	96.7	47.3	91.8	87.8
MAESTRO (T31)	77.8	53.3	91.5	96.7	89.0	89.2	87.7
UNITUS (IS-TF 289)	73.7	66.7	92.7	98.0	84.7	88.6	87.6
AQUADUCT	65.2	83.3	96.0	96.7	75.7	89.9	87.3
TEMPTATION (OR-21)	66.5	53.3	94.7	97.7	84.7	89.8	87.3
MEMPHIS (GO-DFR)	67.5	60.0	95.5	96.7	89.0	88.5	87.3
HOT ROD (BURL TF-136)	71.0	70.0	94.0	98.3	84.0	88.3	87.3
K12-13	67.0	63.3	92.5	94.1	79.0	90.2	87.3
PPG-TF-169	79.7	73.3	96.8	96.7	81.7	86.5	87.1
JS 809	65.8	73.3	96.0	95.6	86.3	87.6	87.0
VERT (ATF 1612)	75.5	63.3	93.7	97.1	75.0	89.3	87.0
RAD-TF-83	70.3	66.7	93.5	95.7	73.7	89.2	87.0
JS 818	69.3	56.7	92.5	96.6	75.0	89.8	87.0
REBOUNDER (PICK-W43)	79.7	46.7	95.2	97.9	82.7	88.1	86.9

TABLE 27. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	CA3	MO1	NC1	OK1	TN1	MEAN
MICHELANGELO (LTP-F5DPDR)	76.2	73.3	95.7	98.6	83.0	86.8	86.8
IS-TF 276 M2	71.2	46.7	95.0	98.4	79.0	89.8	86.7
204 RES. BLK4	69.2	63.3	96.3	94.4	52.3	90.6	86.6
FRONTLINE (EXP TF-09)	62.2	56.7	93.5	94.4	75.7	90.5	86.6
CATALYST	71.3	66.7	96.0	98.4	58.3	88.8	86.4
IS-TF 272	73.8	66.7	90.5	96.0	80.0	88.4	86.3
JS 819	68.0	60.0	95.8	97.2	83.3	86.9	86.2
FIREWALL (PSG-WE1)	75.7	60.0	95.2	97.4	73.3	88.1	86.2
GRANDE 3	75.8	60.0	97.7	98.0	81.0	87.1	86.0
MET 1	74.2	43.3	97.0	97.4	89.3	87.5	85.9
FIREBIRD 2	76.0	73.3	95.2	97.0	84.0	86.8	85.9
RHIZING MOON (IS-TF 305 SEL)	71.5	50.0	93.8	96.8	85.0	88.2	85.6
HEMI	78.2	73.3	94.5	97.8	81.0	85.8	85.6
ROCKWELL (LTP-TWUU)	76.5	66.7	95.0	98.3	69.7	87.1	85.6
ANNIHILATOR	67.5	50.0	94.8	94.6	76.7	89.2	85.5
PSG-PO1	79.0	70.0	94.5	97.4	71.0	85.9	85.5
VALKYRIE LS (PPG-TF-172)	79.3	60.0	94.8	98.0	85.0	86.0	85.5
ATF 1754	76.5	76.7	94.5	97.2	64.0	85.2	84.3
MARAUDER	72.0	63.3	96.0	95.7	46.7	87.0	84.1
WARHAWK	67.2	56.7	93.0	97.6	80.7	86.6	84.1
PSG-8BP2	68.5	60.0	91.8	95.2	86.0	86.3	83.4
COMP. RES. SST	71.5	50.0	96.2	97.3	46.7	83.2	80.9
LSD VALUE	11.8	16.7	4.1	4.4	18.8	9.6	7.7
C.V. (%)	9.9	16.0	2.7	2.8	14.6	7.0	7.5

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 28. PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AR1	CA3	GA1	MO1	NC1	OK1	TN1	MEAN
RHAMBLER 2 SRP (LSD)	89.3	99.0	66.7	99.0	97.8	89.4	96.1	94.1
PST-5BRK	91.3	95.0	66.7	99.0	98.3	87.4	96.4	93.9
RAIN DANCE (PST-5SDT)	90.3	95.0	63.3	98.7	98.1	90.7	95.3	93.8
TERRANO	91.3	93.0	65.0	99.0	98.0	89.3	95.2	93.5
IS-TF-287	88.0	96.3	80.0	99.0	96.7	84.9	95.6	93.5
ROWDY (SRX-TPC)	91.3	99.0	66.7	99.0	98.8	87.2	95.1	93.5
MERIDIAN (PST-5GRB)	91.3	94.7	60.0	98.7	98.3	87.0	96.3	93.5
EMBRACE (PST-5EV2)	92.3	94.7	43.3	98.7	98.2	93.0	96.1	93.4
MICHELANGELO (LTP-F5DPDR)	91.0	96.3	60.0	99.0	98.5	87.0	96.0	93.4
AVENGER II (PPG-TF-156)	90.7	86.3	66.7	99.0	98.8	86.9	95.6	93.3
CROSSFIRE 4 (IS-TF 310 SEL)	91.7	94.7	60.0	99.0	97.7	90.6	94.8	93.2
F711	93.0	96.3	60.0	99.0	98.8	84.3	95.9	93.2
GTO (BURL TF-2)	92.3	93.0	60.0	99.0	98.7	85.2	96.1	93.2
K12-MCD	91.7	94.7	55.0	99.0	97.6	89.3	95.5	93.2
RAPTOR III (ZW 44)	92.3	94.3	70.0	99.0	98.6	82.2	95.4	93.1
GRANDE 3	92.0	91.7	63.3	98.7	98.3	83.9	96.3	93.1
LEONARDO (LTP-FSD)	92.7	88.3	56.7	99.0	98.7	86.4	95.7	93.1
SWAGGER (PST-5RO5)	91.0	97.7	46.7	98.7	97.4	88.9	96.2	93.0
TRINITY (BIZEM)	92.3	91.7	66.7	99.0	98.6	82.6	95.8	93.0
CAESAR (TY 10)	90.3	95.0	70.0	99.0	97.7	84.2	94.8	93.0
MET 1	93.7	97.7	70.0	99.0	98.5	81.3	95.7	92.9
PST-5EX2	91.7	96.0	46.7	99.0	98.9	87.7	96.2	92.9
STANDOUT (IS-TF 308 SEL)	91.7	94.7	65.0	97.7	98.8	83.8	95.3	92.8
RHIZING MOON (IS-TF 305 SEL)	87.7	94.7	53.3	99.0	97.6	88.0	95.9	92.8
FOXHOUND (IS-TF 284 M2)	89.7	95.0	53.3	99.0	97.3	89.0	95.5	92.7
TURFWAY (IS-TF 282 M2)	89.7	97.7	53.3	99.0	97.3	89.1	95.3	92.7
REBEL V (ATF 1736)	91.7	96.3	73.3	99.0	95.8	82.0	95.7	92.7
TRAVERSE 2 SRP (W45)	90.0	94.7	66.7	99.0	98.5	83.9	94.9	92.6
SALTILLO (PST-5SALT)	89.0	99.0	36.7	99.0	97.1	89.7	96.0	92.6
INSPIRATION (PST-R5NW)	90.3	96.0	63.3	99.0	96.0	86.8	95.4	92.6
TECHNIQUE (RZ2)	92.3	96.3	50.0	99.0	98.5	87.4	95.1	92.6
WICHITA (PPG-TF-151)	90.0	88.0	63.3	98.3	98.3	84.6	95.2	92.4
AQUADUCT	87.0	94.7	55.0	99.0	95.0	89.1	95.3	92.4
SUPERSONIC (PPG-TF-170)	91.0	91.7	70.0	99.0	98.4	79.8	95.7	92.4
PST-5MVD	92.7	93.3	56.7	99.0	98.1	84.1	95.4	92.4
MET-3	91.7	97.7	60.0	99.0	98.3	80.0	95.4	92.4
FESNOVA	90.7	94.7	46.7	99.0	96.8	86.9	95.7	92.3
TITANIUM 2LS (PPG-TF-152)	91.7	95.0	66.7	99.0	98.3	80.6	95.8	92.3
HOUNDOG8 (IS-TF 307 SEL)	89.3	95.0	40.0	98.7	98.3	89.9	95.1	92.2
TEMPLE (DZ1)	85.7	96.3	56.7	99.0	97.7	85.2	95.6	92.2
PST-5BP0	91.0	93.3	43.3	97.7	98.3	86.1	95.6	92.1
FIRECRACKER SLS (PPG-TF-105)	90.7	96.3	53.3	99.0	97.6	81.9	95.8	92.1
PARAMOUNT (PPG-TF-137)	90.3	93.3	50.0	99.0	98.8	82.0	95.7	92.1
MAESTRO (T31)	91.0	96.3	40.0	98.3	98.5	87.3	94.8	92.0
FRONTLINE (EXP TF-09)	88.3	93.0	60.0	99.0	94.9	86.6	95.0	92.0
TEMPTATION (OR-21)	87.7	96.0	43.3	99.0	97.3	87.6	95.1	92.0
FAITH	90.3	93.0	53.3	99.0	96.3	86.0	95.5	92.0

TABLE 28. PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AR1	CA3	GA1	MO1	NC1	OK1	TN1	MEAN
AMITY (CCR2)	92.7	97.7	56.7	99.0	97.3	82.6	94.8	92.0
DIABLO (IS-TF 330)	88.7	99.0	53.3	98.7	97.1	83.6	95.7	91.9
REBOUNDER (PICK-W43)	93.3	74.7	70.0	99.0	97.7	83.9	94.9	91.9
K12-05	90.3	81.7	70.0	98.3	97.3	83.4	94.2	91.9
4TH MILLENNIUM SRP (U43)	90.7	99.0	53.3	99.0	98.3	77.4	95.8	91.9
XTENDER (PPG-TF-139)	92.7	94.7	45.0	98.3	97.7	84.9	95.7	91.8
PPG-TF-138	90.3	97.7	56.7	99.0	97.0	82.6	95.3	91.8
BLACK TAIL (PPG-TF-150)	91.3	96.3	50.0	99.0	98.2	83.7	95.3	91.7
THOR (PPG-TF-157)	90.3	95.0	33.3	99.0	98.6	86.7	95.1	91.7
PSG-GSD	89.3	89.3	50.0	99.0	96.0	85.4	95.7	91.7
PSG-TT4	90.3	97.7	50.0	99.0	97.4	82.2	95.9	91.7
FAYETTE (IS-TF 291)	89.3	91.7	53.3	99.0	95.5	83.6	95.2	91.6
ROCKWELL (LTP-TWUU)	93.3	94.7	35.0	99.0	98.5	83.4	95.6	91.6
IS-TF 311	92.7	85.0	50.0	97.7	97.5	86.8	94.8	91.6
PPG-TF-115	90.0	91.7	46.7	98.7	95.9	84.0	95.6	91.6
MEMPHIS (GO-DFR)	88.7	96.3	46.7	99.0	97.6	83.6	95.1	91.6
PPG-TF-135	91.7	93.3	43.3	99.0	98.8	82.9	94.8	91.6
W41	91.3	94.7	50.0	99.0	96.3	84.9	95.2	91.5
HOT ROD (BURL TF-136)	89.0	96.3	50.0	98.3	98.4	81.1	95.8	91.5
TRENDING (IS-TF 269 SEL)	90.7	99.0	53.3	99.0	97.2	81.6	95.1	91.4
PST-5DZP	89.3	95.0	56.7	98.7	94.7	84.0	95.1	91.4
PSG-8BP2	89.7	94.7	36.7	98.3	94.3	90.1	95.2	91.3
BAR FA 121089	89.3	96.0	50.0	98.3	96.8	81.6	95.3	91.3
BAR FA 120878	88.0	99.0	53.3	99.0	93.3	84.7	95.3	91.3
IS-TF 272	90.7	94.7	50.0	97.7	94.6	84.6	95.3	91.2
THUNDERSTRUCK (TD1)	86.7	96.0	53.3	98.7	95.8	80.8	95.2	91.2
REGENERATE	89.7	97.7	60.0	99.0	96.8	78.4	94.8	91.2
VALKYRIE LS (PPG-TF-172)	90.3	78.3	36.7	99.0	98.7	86.3	95.6	91.2
REFLECTION (U45)	91.0	96.3	53.3	99.0	95.4	82.3	96.2	91.2
SCREAMER LS (PPG-TF-148)	90.3	97.7	45.0	99.0	97.8	79.2	95.7	91.1
B23	91.3	96.3	60.0	99.0	97.7	75.3	95.4	91.1
UNITUS (IS-TF 289)	89.0	97.7	46.7	97.7	96.3	86.4	94.6	91.1
NIGHTCRAWLER (IS-TF 285)	88.0	99.0	56.7	98.3	96.2	79.9	95.3	91.1
BLOODHOUND (MET 6 SEL)	89.7	96.3	50.0	98.3	98.1	80.9	95.4	91.0
VERT (ATF 1612)	90.0	93.0	56.7	98.3	97.3	77.3	95.4	91.0
ATF 1704	91.7	91.7	33.3	99.0	98.5	83.1	95.3	91.0
JS 809	86.0	99.0	70.0	99.0	95.4	79.3	93.6	90.9
DYNAMITE LS (PPG-TF-145)	84.3	91.3	40.0	99.0	96.7	83.1	95.3	90.9
BAR FA 121091	88.3	90.0	46.7	99.0	95.3	83.9	95.0	90.9
JS 819	87.7	96.3	46.7	99.0	95.1	85.4	94.3	90.8
K12-13	88.3	99.0	66.7	99.0	95.0	74.7	95.0	90.8
JS 825	87.3	93.0	50.0	99.0	95.2	82.6	95.2	90.7
ATF 1754	92.3	96.3	53.3	98.7	97.6	74.6	95.3	90.6
KY-31	89.7	94.7	55.0	97.7	93.2	86.4	93.3	90.5
PPG-TF-169	91.3	96.3	66.7	99.0	93.8	80.7	95.0	90.5
JS 916	89.0	91.7	36.7	99.0	97.8	79.1	95.7	90.3
PSG-P01	90.3	97.7	43.3	98.7	98.0	74.8	95.2	90.2

TABLE 28. PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AR1	CA3	GA1	MO1	NC1	OK1	TN1	MEAN
WARHAWK	88.0	94.7	46.7	99.0	94.3	81.6	94.8	90.1
ARES (PPG-TF-142)	87.3	94.7	36.7	99.0	95.4	82.8	94.7	90.1
JS 818	86.7	96.0	40.0	98.7	95.4	79.9	95.2	90.0
FALCON IV	91.0	94.7	50.0	99.0	90.7	84.8	95.2	89.9
RAD-TF-89	88.7	94.7	63.3	99.0	96.7	73.3	93.2	89.8
KINGDOM (DB1)	89.7	94.7	56.7	98.3	97.0	72.2	94.5	89.7
HEMI	89.7	95.0	50.0	99.0	94.3	79.1	95.2	89.5
FALCON V	92.7	94.7	43.3	99.0	96.0	77.6	94.3	89.4
BULLSEYE	89.7	90.0	50.0	97.7	94.4	74.3	95.6	89.2
CATALYST	90.7	95.0	35.0	98.3	96.5	71.6	95.3	88.7
RAD-TF-92	87.3	93.3	66.7	99.0	96.0	64.2	94.6	88.7
RAD-TF-83	89.3	97.7	60.0	98.3	94.6	64.3	94.2	88.1
HOVER (BURL TF-69)	87.0	93.0	53.3	99.0	95.8	66.1	93.4	87.6
204 RES. BLK4	90.0	97.7	55.0	99.0	90.7	59.1	95.6	87.5
ANNIHILATOR	88.0	93.3	53.3	99.0	93.0	67.6	89.4	86.7
FIREBIRD 2	92.0	93.0	56.7	99.0	97.2	85.7	87.8	86.2
OLYMPUS (RAD-TF-88)	89.3	97.7	53.3	99.0	96.3	49.4	93.8	86.0
IS-TF 276 M2	88.7	94.3	60.0	99.0	98.3	83.4	87.2	85.8
MARAUDER	91.0	97.7	56.7	99.0	92.6	54.8	91.3	85.7
COMP. RES. SST	86.0	94.7	53.3	99.0	93.2	45.8	91.7	84.9
FIREWALL (PSG-WE1)	90.7	93.3	53.3	99.0	98.3	77.8	87.4	84.8
BAR FA 121095	87.3	94.7	43.3	99.0	94.1	83.7	87.3	84.0
LSD VALUE	3.6	9.2	28.9	1.1	4.8	19.6	6.4	8.4
C.V. (%)	2.5	6.0	32.2	0.7	3.1	14.9	4.2	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.

TABLE 29. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	CA3	GA1	KY1	MS1	NC1	TN1	MEAN
THOR (PPG-TF-157)	7.8	5.0	4.0	5.7	5.6	7.8	6.3
MAESTRO (T31)	7.5	6.0	4.0	5.8	5.4	7.3	6.2
GTO (BURL TF-2)	7.8	6.0	4.3	5.8	5.7	6.7	6.2
F711	7.3	5.5	4.3	5.9	5.9	6.7	6.2
VALKYRIE LS (PPG-TF-172)	7.2	5.0	4.0	5.6	5.9	7.2	6.2
MET 1	7.3	5.7	4.0	5.8	5.6	6.8	6.2
PPG-TF-169	7.5	5.3	4.0	5.9	5.5	6.8	6.2
WICHITA (PPG-TF-151)	7.5	4.5	4.0	5.7	5.4	7.7	6.1
FAYETTE (IS-TF 291)	7.7	5.5	4.3	5.8	5.0	7.3	6.1
SCREAMER LS (PPG-TF-148)	7.5	5.0	4.0	5.9	5.3	6.8	6.1
4TH MILLENNIUM SRP (U43)	7.5	5.5	4.0	5.6	5.5	7.2	6.1
TRAVERSE 2 SRP (W45)	7.2	5.7	4.0	5.7	5.4	6.8	6.1
REGENERATE	7.0	5.0	4.0	5.7	5.8	6.8	6.1
AVENGER II (PPG-TF-156)	7.0	5.3	4.0	5.8	5.5	6.8	6.0
ROCKWELL (LTP-TWUU)	7.3	5.3	4.3	5.7	5.4	6.8	6.0
AMITY (CCR2)	6.8	5.0	4.3	5.9	5.4	6.8	6.0
GRANDE 3	6.8	5.0	4.3	5.6	5.7	7.0	6.0
TECHNIQUE (RZ2)	7.3	5.7	4.0	5.7	5.6	6.3	6.0
FALCON V	7.2	5.3	4.0	5.8	5.3	6.7	6.0
FAITH	7.2	5.5	4.0	5.9	5.5	6.3	6.0
XTENDER (PPG-TF-139)	7.5	5.3	4.0	5.5	4.8	7.5	6.0
LEONARDO (LTP-FSD)	7.2	5.0	4.0	5.6	5.3	7.0	6.0
MET-3	7.7	4.5	4.0	5.9	5.3	6.2	6.0
PARAMOUNT (PPG-TF-137)	7.3	4.5	4.0	5.9	5.4	6.3	6.0
CAESAR (TY 10)	6.7	5.3	4.0	5.8	5.3	6.8	6.0
CROSSFIRE 4 (IS-TF 310 SEL)	7.0	5.0	4.0	5.6	5.1	7.3	6.0
PPG-TF-138	7.3	5.0	4.0	5.7	5.1	7.0	6.0
PSG-PO1	7.8	5.0	4.0	5.6	5.1	6.8	6.0
ATF 1704	6.8	5.0	4.0	5.6	5.6	6.7	5.9
TITANIUM 2LS (PPG-TF-152)	7.7	4.0	4.0	5.7	5.8	6.2	5.9
W41	7.3	4.3	4.0	5.5	5.2	7.2	5.9
BLOODHOUND (MET 6 SEL)	7.3	5.0	4.3	5.9	5.3	6.0	5.9
CATALYST	7.3	5.0	4.0	5.7	5.3	6.7	5.9
KINGDOM (DB1)	7.2	5.0	4.0	5.6	5.2	7.0	5.9
REFLECTION (U45)	7.5	5.3	4.0	5.7	5.0	6.8	5.9
MICHELANGELO (LTP-F5DPDR)	7.0	5.5	4.0	5.7	5.3	6.3	5.9
TURFWAY (IS-TF 282 M2)	7.2	4.3	4.0	5.5	5.3	7.5	5.9
PST-5EX2	7.2	5.5	4.7	5.7	5.8	5.7	5.9
TEMPLE (DZ1)	7.2	5.3	4.0	5.7	4.9	7.0	5.9
TEMPTATION (OR-21)	6.5	3.7	4.0	5.6	5.2	8.0	5.9
RAPTOR III (ZW 44)	7.0	4.3	4.0	5.7	5.3	7.0	5.9
IS-TF 311	7.0	5.0	4.0	5.6	5.3	6.8	5.9
STANDOUT (IS-TF 308 SEL)	7.0	4.7	4.0	5.5	5.3	7.2	5.9
FIREWALL (PSG-WE1)	7.2	4.3	4.3	5.7	5.2	6.3	5.9
FIREBIRD 2	7.3	4.5	4.0	5.6	5.2	6.3	5.9
ROWDY (SRX-TPC)	7.3	4.0	4.0	5.6	5.1	7.0	5.9

TABLE 29. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	CA3	GA1	KY1	MS1	NC1	TN1	MEAN
HEMI	6.7	5.0	4.0	5.6	5.0	7.0	5.9
K12-MCD	7.7	5.0	4.0	5.6	4.8	6.7	5.9
REBOUNDER (PICK-W43)	7.0	5.3	4.0	5.6	5.2	6.7	5.9
PPG-TF-135	7.3	4.7	4.0	5.5	5.3	6.8	5.9
TRENDING (IS-TF 269 SEL)	6.8	5.5	4.0	5.5	4.9	7.2	5.9
PST-5BP0	7.3	4.7	4.3	5.5	5.2	6.7	5.9
TERRANO	7.7	5.3	4.0	5.6	4.9	6.5	5.9
HOVER (BURL TF-69)	7.3	5.0	4.0	5.5	4.8	7.2	5.9
MARAUDER	7.0	5.3	4.0	5.5	5.1	7.0	5.9
THUNDERSTRUCK (TD1)	6.7	4.3	4.0	5.5	5.1	7.5	5.9
VERT (ATF 1612)	7.3	4.7	4.0	5.6	5.0	6.7	5.9
IS-TF 276 M2	7.0	5.0	4.0	5.5	5.1	6.7	5.8
FIRECRACKER SLS (PPG-TF-105)	7.2	5.3	4.0	5.5	5.3	6.7	5.8
SUPERSONIC (PPG-TF-170)	7.2	5.0	4.0	5.8	4.8	6.7	5.8
ATF 1754	6.8	4.7	4.0	5.6	5.2	6.7	5.8
FESNOVA	7.0	4.7	4.0	5.7	5.4	6.0	5.8
B23	7.0	5.0	4.0	5.7	4.9	7.0	5.8
PSG-GSD	7.2	5.5	4.0	5.7	4.7	6.8	5.8
HOUNDOG8 (IS-TF 307 SEL)	6.8	5.3	4.0	5.6	5.1	6.8	5.8
RHIZING MOON (IS-TF 305 SEL)	7.3	4.5	4.0	5.6	4.9	6.7	5.8
RAD-TF-83	7.2	6.0	4.0	5.3	4.7	7.2	5.8
RAD-TF-89	7.7	5.0	3.7	5.4	5.0	7.2	5.8
EMBRACE (PST-5EV2)	7.3	4.7	4.0	5.7	4.9	6.3	5.8
FRONTLINE (EXP TF-09)	7.0	4.0	4.0	5.7	5.2	6.5	5.8
RHAMBLER 2 SRP (LSD)	7.2	4.7	4.0	5.5	4.9	7.0	5.8
BLACK TAIL (PPG-TF-150)	7.2	5.0	4.0	5.7	5.0	6.3	5.8
DIABLO (IS-TF 330)	6.8	5.0	4.0	5.7	5.2	6.2	5.8
K12-05	7.8	5.0	4.0	5.7	4.9	5.8	5.8
RAIN DANCE (PST-5SDT)	6.8	5.0	4.0	5.5	5.4	6.2	5.8
204 RES. BLK4	7.3	4.3	4.0	5.5	5.0	6.3	5.7
HOT ROD (BURL TF-136)	7.7	5.7	4.0	5.5	5.1	6.0	5.7
JS 916	7.0	4.7	4.0	5.6	5.2	6.0	5.7
DYNAMITE LS (PPG-TF-145)	7.0	4.3	3.7	5.5	4.8	6.8	5.7
TRINITY (BIZEM)	7.5	5.0	4.0	5.5	5.0	6.2	5.7
COMP. RES. SST	6.8	5.5	4.0	5.5	4.9	6.5	5.7
PPG-TF-115	6.7	5.0	4.0	5.7	4.4	6.8	5.7
IS-TF 272	7.2	4.7	4.0	5.6	4.8	6.5	5.7
UNITUS (IS-TF 289)	6.7	5.5	4.0	5.6	4.8	6.5	5.7
PST-5BRK	6.5	4.7	4.0	5.7	4.8	6.5	5.7
REBEL V (ATF 1736)	6.8	4.0	4.0	5.5	5.0	6.5	5.7
MEMPHIS (GO-DFR)	7.0	5.0	4.0	5.5	4.7	6.7	5.7
PST-5MVD	6.7	5.0	4.3	5.5	5.0	6.2	5.7
AQUADUCT	7.3	4.0	4.0	5.5	4.9	6.2	5.7
INSPIRATION (PST-R5NW)	6.7	5.0	4.0	5.5	4.8	6.5	5.7
WARHAWK	7.0	5.0	3.7	5.5	4.4	7.2	5.7
ARES (PPG-TF-142)	7.0	4.7	4.0	5.6	4.5	6.8	5.6
FALCON IV	6.7	4.7	4.0	5.4	4.9	6.3	5.6

TABLE 29. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	CA3	GA1	KY1	MS1	NC1	TN1	MEAN
ANNIHILATOR	6.8	4.0	4.0	5.3	4.8	7.0	5.6
BULLSEYE	6.7	5.3	4.0	5.6	4.9	5.8	5.6
PSG-TT4	7.0	4.7	4.0	5.6	4.9	5.7	5.6
RAD-TF-92	7.2	5.3	4.0	5.4	4.9	5.8	5.6
NIGHTCRAWLER (IS-TF 285)	6.8	4.7	4.0	5.5	4.7	6.3	5.6
FOXHOUND (IS-TF 284 M2)	6.8	4.7	4.0	5.6	4.7	6.2	5.6
JS 809	7.0	5.0	4.0	5.2	4.8	6.2	5.6
SALTILLO (PST-5SALT)	7.3	4.3	4.0	5.3	5.0	6.2	5.6
MERIDIAN (PST-5GRB)	6.3	4.7	4.0	5.5	5.1	5.8	5.6
SWAGGER (PST-5RO5)	6.3	5.3	4.0	5.5	4.8	6.2	5.6
OLYMPUS (RAD-TF-88)	6.7	5.0	4.0	5.4	4.4	6.7	5.5
BAR FA 121091	6.3	4.5	4.0	5.2	4.5	6.8	5.5
IS-TF-287	6.8	4.3	4.0	5.4	4.8	6.0	5.5
PSG-8BP2	7.0	4.3	4.0	5.5	4.3	6.0	5.5
BAR FA 121095	6.8	5.3	4.0	5.3	4.5	5.7	5.5
K12-13	7.3	6.0	3.7	5.5	4.7	5.2	5.5
PST-5DZP	7.0	4.7	4.0	5.5	4.5	5.7	5.4
JS 825	6.5	5.0	4.0	5.1	4.6	6.3	5.4
JS 819	7.0	5.0	3.7	5.4	4.6	5.3	5.4
BAR FA 121089	6.3	4.0	4.0	5.4	4.6	6.0	5.4
JS 818	7.3	4.0	4.0	5.3	4.5	5.5	5.3
BAR FA 120878	6.2	3.5	4.3	5.1	4.8	6.0	5.3
KY-31	5.5	4.3	5.0	4.6	3.8	5.0	4.7
LSD VALUE	1.1	1.5	0.4	0.5	1.0	1.5	0.6
C.V. (%)	10.1	16.6	5.5	5.8	12.8	14.4	10.7

- 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.
- 3/ WINTER COLOR RATED AT "CA3" IN 2014/2015, AT "GA1" IN 2017, AT "KY1" IN 2014, "MS1" IN 2013-2017, AT "NC1" 2014 & 2015, AND "TN1" IN 2013 & 2017.

TABLE 30.

 TYPHULA BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/
 2013 DATA

TYPHULA BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	CT1	NAME	CT1
JS 916	6.7	BLACK TAIL (PPG-TF-150)	5.0
MET-3	6.7	CATALYST	5.0
STANDOUT (IS-TF 308 SEL)	6.7	INSPIRATION (PST-R5NW)	5.0
AVENGER II (PPG-TF-156)	6.3	IS-TF 272	5.0
F711	6.3	MET 1	5.0
FAYETTE (IS-TF 291)	6.3	NIGHTCRAWLER (IS-TF 285)	5.0
GTO (BURL TF-2)	6.3	PPG-TF-115	5.0
HOUNDOG8 (IS-TF 307 SEL)	6.3	PPG-TF-135	5.0
SCREAMER LS (PPG-TF-148)	6.3	PSG-PO1	5.0
TURFWAY (IS-TF 282 M2)	6.3	PST-5DZP	5.0
FIREBIRD 2	6.0	TERRANO	5.0
MICHELANGELO (LTP-F5DPDR)	6.0	TRAVERSE 2 SRP (W45)	5.0
PARAMOUNT (PPG-TF-137)	6.0	VERT (ATF 1612)	5.0
RAPTOR III (ZW 44)	6.0	AQUADUCT	4.7
REFLECTION (U45)	6.0	BAR FA 120878	4.7
TITANIUM 2LS (PPG-TF-152)	6.0	BULLSEYE	4.7
TRINITY (BIZEM)	6.0	FESNOVA	4.7
AMITY (CCR2)	5.7	FOXHOUND (IS-TF 284 M2)	4.7
ATF 1704	5.7	LEONARDO (LTP-FSD)	4.7
ATF 1754	5.7	PSG-TT4	4.7
DIABLO (IS-TF 330)	5.7	PST-5BP0	4.7
EMBRACE (PST-5EV2)	5.7	PST-5EX2	4.7
FALCON V	5.7	THOR (PPG-TF-157)	4.7
HEMI	5.7	UNITUS (IS-TF 289)	4.7
IS-TF-287	5.7	VALKYRIE LS (PPG-TF-172)	4.7
MERIDIAN (PST-5GRB)	5.7	W41	4.7
TECHNIQUE (RZ2)	5.7	XTENDER (PPG-TF-139)	4.7
TEMPLE (DZ1)	5.7	ARES (PPG-TF-142)	4.3
BLOODHOUND (MET 6 SEL)	5.3	FALCON IV	4.3
DYNAMITE LS (PPG-TF-145)	5.3	FRONTLINE (EXP TF-09)	4.3
FIRECRACKER SLS (PPG-TF-105)	5.3	GRANDE 3	4.3
FIREWALL (PSG-WE1)	5.3	JS 809	4.3
HOT ROD (BURL TF-136)	5.3	JS 825	4.3
IS-TF 311	5.3	K12-MCD	4.3
KY-31	5.3	PPG-TF-169	4.3
MAESTRO (T31)	5.3	PSG-GSD	4.3
PPG-TF-138	5.3	PST-5BRK	4.3
PSG-8BP2	5.3	REBOUNDER (PICK-W43)	4.3
REBEL V (ATF 1736)	5.3	RHAMBLER 2 SRP (LSD)	4.3
REGENERATE	5.3	RHIZING MOON (IS-TF 305 SEL)	4.3
ROCKWELL (LTP-TWUU)	5.3	THUNDERSTRUCK (TD1)	4.3
ROWDY (SRX-TPC)	5.3	TRENDING (IS-TF 269 SEL)	4.3
SUPERSONIC (PPG-TF-170)	5.3	B23	4.0
SWAGGER (PST-5RO5)	5.3	BAR FA 121091	4.0
WICHITA (PPG-TF-151)	5.3	CAESAR (TY 10)	4.0
4TH MILLENNIUM SRP (U43)	5.0	COMP. RES. SST	4.0

TABLE 30. TYPHULA BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013 DATA

TYPHULA BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	CT1
JS 819	4.0
MEMPHIS (GO-DFR)	4.0
PST-5MVD	4.0
RAD-TF-92	4.0
FAITH	3.7
HOVER (BURL TF-69)	3.7
IS-TF 276 M2	3.7
KINGDOM (DB1)	3.7
OLYMPUS (RAD-TF-88)	3.7
RAD-TF-83	3.7
RAIN DANCE (PST-5SDT)	3.7
SALTILLO (PST-5SALT)	3.7
TEMPTATION (OR-21)	3.7
BAR FA 121089	3.3
BAR FA 121095	3.3
CROSSFIRE 4 (IS-TF 310 SEL)	3.3
K12-05	3.3
MARAUDER	3.3
RAD-TF-89	3.3
ANNIHILATOR	3.0
204 RES. BLK4	2.3
K12-13	2.3
WARHAWK	2.3
LSD VALUE	1.7
C.V. (%)	22.3

- 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.
- 3/ TYPHULA BLIGHT RATED IN 2013 ONLY.

TABLE 31.

LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS 1/
2015 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2	NAME	NJ2
FOXHOUND (IS-TF 284 M2)	7.7	THUNDERSTRUCK (TD1)	5.7
ARES (PPG-TF-142)	7.3	TITANIUM 2LS (PPG-TF-152)	5.7
DIABLO (IS-TF 330)	7.3	4TH MILLENNIUM SRP (U43)	5.3
KINGDOM (DB1)	7.3	ANNIHILATOR	5.3
TRENDING (IS-TF 269 SEL)	7.3	B23	5.3
TURFWAY (IS-TF 282 M2)	7.3	FESNOVA	5.3
BAR FA 121095	7.0	IS-TF 276 M2	5.3
DYNAMITE LS (PPG-TF-145)	7.0	IS-TF 311	5.3
FAYETTE (IS-TF 291)	7.0	IS-TF-287	5.3
HOUNDOG8 (IS-TF 307 SEL)	7.0	JS 819	5.3
THOR (PPG-TF-157)	7.0	MET-3	5.3
BLACK TAIL (PPG-TF-150)	6.7	PPG-TF-135	5.3
FIRECRACKER SLS (PPG-TF-105)	6.7	ROCKWELL (LTP-TWUU)	5.3
FRONTLINE (EXP TF-09)	6.7	WARHAWK	5.3
JS 818	6.7	WICHITA (PPG-TF-151)	5.3
STANDOUT (IS-TF 308 SEL)	6.7	204 RES. BLK4	5.0
TEMPTATION (OR-21)	6.7	AMITY (CCR2)	5.0
UNITUS (IS-TF 289)	6.7	BAR FA 121089	5.0
CROSSFIRE 4 (IS-TF 310 SEL)	6.3	BAR FA 121091	5.0
IS-TF 272	6.3	COMP. RES. SST	5.0
REFLECTION (U45)	6.3	EMBRACE (PST-5EV2)	5.0
TEMPLE (DZ1)	6.3	FIREWALL (PSG-WE1)	5.0
CAESAR (TY 10)	6.0	HEMI	5.0
FIREBIRD 2	6.0	JS 916	5.0
NIGHTCRAWLER (IS-TF 285)	6.0	MARAUDER	5.0
RAD-TF-83	6.0	MERIDIAN (PST-5GRB)	5.0
REGENERATE	6.0	MICHELANGELO (LTP-F5DPDR)	5.0
RHIZING MOON (IS-TF 305 SEL)	6.0	OLYMPUS (RAD-TF-88)	5.0
ROWDY (SRX-TPC)	6.0	PARAMOUNT (PPG-TF-137)	5.0
TRAVERSE 2 SRP (W45)	6.0	PSG-TT4	5.0
TRINITY (BIZEM)	6.0	SALTILLO (PST-5SALT)	5.0
VALKYRIE LS (PPG-TF-172)	6.0	SUPERSONIC (PPG-TF-170)	5.0
XTENDER (PPG-TF-139)	6.0	W41	5.0
BULLSEYE	5.7	FALCON IV	4.7
F711	5.7	HOVER (BURL TF-69)	4.7
FAITH	5.7	INSPIRATION (PST-R5NW)	4.7
JS 825	5.7	K12-MCD	4.7
K12-05	5.7	PSG-8BP2	4.7
MEMPHIS (GO-DFR)	5.7	PST-5BRK	4.7
PPG-TF-115	5.7	PST-5MVD	4.7
PSG-PO1	5.7	RAD-TF-92	4.7
PST-5DZP	5.7	RAPTOR III (ZW 44)	4.7
REBOUNDER (PICK-W43)	5.7	REBEL V (ATF 1736)	4.7
RHAMBLER 2 SRP (LSD)	5.7	SCREAMER LS (PPG-TF-148)	4.7
SWAGGER (PST-5RO5)	5.7	ATF 1754	4.3
TERRANO	5.7	BAR FA 120878	4.3

TABLE 31.
(CONT'D)

LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS 1/
2015 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2
HOT ROD (BURL TF-136)	4.3
LEONARDO (LTP-FSD)	4.3
MAESTRO (T31)	4.3
MET 1	4.3
PPG-TF-138	4.3
PST-5BP0	4.3
RAIN DANCE (PST-5SDT)	4.3
TECHNIQUE (RZ2)	4.3
ATF 1704	4.0
GRANDE 3	4.0
JS 809	4.0
K12-13	4.0
PST-5EX2	4.0
RAD-TF-89	4.0
VERT (ATF 1612)	4.0
AVENGER II (PPG-TF-156)	3.7
FALCON V	3.7
PPG-TF-169	3.7
PSG-GSD	3.7
AQUADUCT	3.3
BLOODHOUND (MET 6 SEL)	3.3
CATALYST	3.3
GTO (BURL TF-2)	3.3
KY-31	3.3
LSD VALUE	1.5
C.V. (%)	17.5

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.

3/ LEAF SPOT RATED IN 2015 ONLY.

TABLE 32.

RED THREAD RATINGS OF TALL FESCUE CULTIVARS 1/
2016 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MO1	NAME	MO1
KY-31	8.0	HOUNDOG8 (IS-TF 307 SEL)	5.3
MET-3	7.3	JS 916	5.3
BAR FA 121091	7.0	K12-MCD	5.3
FALCON IV	7.0	MET 1	5.3
ANNIHILATOR	6.7	MICHELANGELO (LTP-F5DPDR)	5.3
BAR FA 120878	6.7	PPG-TF-135	5.3
FAITH	6.7	REBOUNDER (PICK-W43)	5.3
JS 825	6.7	ROWDY (SRX-TPC)	5.3
LEONARDO (LTP-FSD)	6.7	TECHNIQUE (RZ2)	5.3
RHIZING MOON (IS-TF 305 SEL)	6.7	WICHITA (PPG-TF-151)	5.3
4TH MILLENNIUM SRP (U43)	6.3	FESNOVA	5.0
CROSSFIRE 4 (IS-TF 310 SEL)	6.3	FOXHOUND (IS-TF 284 M2)	5.0
FIRECRACKER SLS (PPG-TF-105)	6.3	IS-TF 276 M2	5.0
PPG-TF-169	6.3	MEMPHIS (GO-DFR)	5.0
PST-5BP0	6.3	REBEL V (ATF 1736)	5.0
PST-5EX2	6.3	RHAMBLER 2 SRP (LSD)	5.0
PST-5MVD	6.3	SALTILLO (PST-5SALT)	5.0
TRAVERSE 2 SRP (W45)	6.3	SCREAMER LS (PPG-TF-148)	5.0
ATF 1704	6.0	SUPERSONIC (PPG-TF-170)	5.0
EMBRACE (PST-5EV2)	6.0	TRINITY (BIZEM)	5.0
JS 819	6.0	W41	5.0
NIGHTCRAWLER (IS-TF 285)	6.0	WARHAWK	5.0
PARAMOUNT (PPG-TF-137)	6.0	XTENDER (PPG-TF-139)	5.0
PSG-PO1	6.0	ATF 1754	4.7
PST-5BRK	6.0	AVENGER II (PPG-TF-156)	4.7
RAD-TF-89	6.0	BAR FA 121095	4.7
TEMPTATION (OR-21)	6.0	FIREBIRD 2	4.7
TITANIUM 2LS (PPG-TF-152)	6.0	GRANDE 3	4.7
TURFWAY (IS-TF 282 M2)	6.0	INSPIRATION (PST-R5NW)	4.7
VALKYRIE LS (PPG-TF-172)	6.0	IS-TF 272	4.7
DIABLO (IS-TF 330)	5.7	K12-13	4.7
HOT ROD (BURL TF-136)	5.7	PSG-GSD	4.7
IS-TF 311	5.7	PSG-TT4	4.7
MAESTRO (T31)	5.7	REFLECTION (U45)	4.7
MERIDIAN (PST-5GRB)	5.7	AMITY (CCR2)	4.3
RAIN DANCE (PST-5SDT)	5.7	AQUADUCT	4.3
STANDOUT (IS-TF 308 SEL)	5.7	ARES (PPG-TF-142)	4.3
SWAGGER (PST-5RO5)	5.7	BULLSEYE	4.3
THOR (PPG-TF-157)	5.7	CATALYST	4.3
TRENDING (IS-TF 269 SEL)	5.7	FAYETTE (IS-TF 291)	4.3
B23	5.3	IS-TF-287	4.3
DYNAMITE LS (PPG-TF-145)	5.3	JS 818	4.3
F711	5.3	K12-05	4.3
FIREWALL (PSG-WE1)	5.3	PPG-TF-115	4.3
GTO (BURL TF-2)	5.3	UNITUS (IS-TF 289)	4.3
HEMI	5.3	BAR FA 121089	4.0

TABLE 32. RED THREAD RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2016 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MO1
BLOODHOUND (MET 6 SEL)	4.0
CAESAR (TY 10)	4.0
PSG-8BP2	4.0
PST-5DZP	4.0
RAD-TF-92	4.0
TERRANO	4.0
FALCON V	3.7
FRONTLINE (EXP TF-09)	3.7
JS 809	3.7
VERT (ATF 1612)	3.7
BLACK TAIL (PPG-TF-150)	3.3
COMP. RES. SST	3.3
KINGDOM (DB1)	3.3
MARAUDER	3.3
RAD-TF-83	3.3
RAPTOR III (ZW 44)	3.3
THUNDERSTRUCK (TD1)	3.3
HOVER (BURL TF-69)	3.0
OLYMPUS (RAD-TF-88)	3.0
PPG-TF-138	3.0
ROCKWELL (LTP-TWUU)	3.0
TEMPLE (DZ1)	3.0
204 RES. BLK4	2.7
REGENERATE	2.3
LSD VALUE	3.0
C.V. (%)	37.0

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.

3/ RED THREAD RATED IN 2016 ONLY.

TABLE 33. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	AR1	CT1	IN1	KY1	MD1	NC1	NJ2	OK1	TN1	MEAN
AMITY (CCR2)	8.7	9.0	7.8	8.0	7.9	7.3	6.7	5.2	8.5	7.2
THOR (PPG-TF-157)	6.7	7.3	7.2	8.3	7.7	7.3	6.3	6.3	8.5	7.2
AVENGER II (PPG-TF-156)	9.0	9.0	8.0	8.0	8.0	6.7	6.1	6.5	8.5	7.1
REFLECTION (U45)	7.3	9.0	7.8	7.3	8.4	6.8	5.9	5.3	8.8	7.1
ROWDY (SRX-TPC)	9.0	9.0	8.3	7.3	8.0	6.9	5.7	6.3	8.5	7.1
PARAMOUNT (PPG-TF-137)	8.0	8.7	7.7	7.7	8.1	6.9	6.1	5.8	8.8	7.1
F711	8.7	8.7	8.0	6.7	8.3	7.9	5.3	6.2	9.0	7.1
MAESTRO (T31)	7.0	9.0	7.2	6.7	8.0	6.6	6.1	6.0	8.5	7.0
MET 1	6.0	8.0	7.8	7.0	8.0	7.3	5.8	6.7	8.7	7.0
SCREAMER LS (PPG-TF-148)	3.3	8.3	8.2	6.7	7.9	6.9	6.2	6.0	9.0	7.0
BLOODHOUND (MET 6 SEL)	8.3	9.0	8.2	7.7	8.3	7.1	6.1	4.8	8.7	7.0
GTO (BURL TF-2)	6.7	9.0	8.2	7.7	8.0	7.0	5.6	6.0	8.8	7.0
EMBRACE (PST-5EV2)	8.3	8.0	8.0	7.7	7.4	6.7	5.6	7.3	8.3	7.0
REGENERATE	7.0	8.7	7.8	7.3	8.1	7.1	6.1	6.0	8.3	7.0
STANDOUT (IS-TF 308 SEL)	6.3	9.0	7.5	7.3	8.2	7.2	5.6	6.0	8.5	7.0
SUPERSONIC (PPG-TF-170)	5.3	9.0	7.7	7.7	8.1	6.6	5.9	6.2	8.5	7.0
4TH MILLENNIUM SRP (U43)	7.7	9.0	7.8	7.3	8.1	6.4	6.1	6.0	8.7	7.0
VALKYRIE LS (PPG-TF-172)	6.3	9.0	8.2	7.7	7.8	7.3	5.5	5.7	8.7	6.9
RHAMBLER 2 SRP (LSD)	8.3	9.0	8.0	6.0	7.7	6.8	5.1	6.3	9.0	6.9
TRINITY (BIZEM)	8.0	8.3	7.7	7.3	8.0	6.6	5.6	5.8	8.2	6.9
FAYETTE (IS-TF 291)	8.3	8.7	8.0	6.0	7.9	6.2	5.7	6.2	8.7	6.9
LEONARDO (LTP-FSD)	7.7	8.7	7.7	6.7	7.8	7.2	5.4	5.7	8.8	6.9
MICHELANGELO (LTP-F5DPDR)	8.0	7.7	8.3	7.3	7.6	7.7	5.7	5.5	8.2	6.9
HEMI	8.0	8.7	7.3	7.7	7.3	7.3	5.6	5.5	9.0	6.9
HOT ROD (BURL TF-136)	7.0	8.0	8.7	8.0	7.6	7.0	5.9	5.3	8.7	6.9
FIRECRACKER SLS (PPG-TF-105)	5.3	9.0	7.8	6.7	8.1	7.0	5.9	5.3	9.0	6.9
TITANIUM 2LS (PPG-TF-152)	5.3	8.3	8.0	7.7	7.7	7.3	6.3	5.5	9.0	6.9
MET-3	8.7	8.7	7.7	7.7	7.1	7.3	6.1	4.8	8.7	6.8
RAPTOR III (ZW 44)	7.7	8.0	7.5	7.3	8.3	7.1	5.9	5.5	8.7	6.8
PST-5EX2	8.0	8.7	7.7	7.7	7.7	7.4	5.5	6.2	8.7	6.7
IS-TF 311	8.3	8.7	7.3	8.0	7.7	7.1	5.5	6.5	8.3	6.7
TRAVERSE 2 SRP (W45)	9.0	8.7	7.7	7.7	8.1	7.1	5.7	6.2	8.7	6.7
REBOUNDER (PICK-W43)	8.7	9.0	7.5	7.7	8.3	7.0	5.7	5.3	8.3	6.7
PPG-TF-135	7.3	9.0	7.2	7.3	7.6	6.6	5.9	5.7	8.8	6.7
WICHITA (PPG-TF-151)	4.3	8.7	8.2	6.7	8.1	6.9	5.5	5.3	8.3	6.7
ATF 1704	8.7	8.3	6.7	7.0	7.4	6.9	5.8	5.0	8.3	6.7
B23	7.0	9.0	7.3	7.0	8.0	7.1	5.8	5.5	8.8	6.7
ROCKWELL (LTP-TWUU)	7.3	9.0	8.0	8.0	8.2	7.1	6.0	4.8	8.7	6.7
TECHNIQUE (RZ2)	8.3	9.0	7.0	7.0	7.8	7.3	5.9	5.7	8.7	6.7
PPG-TF-115	7.0	8.3	8.0	7.3	7.4	6.4	4.9	5.3	8.8	6.6
FALCON V	6.7	9.0	7.5	6.3	7.1	6.9	5.1	5.5	9.0	6.6
GRANDE 3	7.3	9.0	7.8	7.0	7.7	6.3	5.3	5.8	8.8	6.6
PSG-PO1	6.7	8.3	7.3	7.3	7.9	6.9	5.5	5.7	8.8	6.6
FIREBIRD 2	7.3	8.0	7.3	8.3	7.6	6.8	5.4	5.8	8.7	6.6
FESNOVA	8.0	8.3	6.5	7.0	7.6	6.6	5.2	5.7	8.3	6.6
BLACK TAIL (PPG-TF-150)	8.0	8.0	7.5	7.7	8.0	7.0	5.3	5.5	8.7	6.6

TABLE 33.
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	AR1	CT1	IN1	KY1	MD1	NC1	NJ2	OK1	TN1	MEAN
NIGHTCRAWLER (IS-TF 285)	9.0	8.0	7.7	6.0	7.9	6.3	5.0	5.5	8.7	6.6
CATALYST	6.0	9.0	7.7	6.7	7.9	7.0	4.7	5.5	8.8	6.6
FIREWALL (PSG-WEL)	6.7	8.3	8.0	7.3	7.9	6.4	5.2	5.2	8.8	6.5
TURFWAY (IS-TF 282 M2)	8.7	7.0	7.3	8.3	7.4	6.6	4.9	6.0	8.2	6.5
PST-5BRK	6.0	9.0	7.2	7.3	7.9	7.2	5.1	5.2	8.5	6.5
REBEL V (ATF 1736)	8.7	8.3	7.8	7.3	7.6	5.9	4.9	5.3	8.8	6.5
FOXHOUND (IS-TF 284 M2)	7.0	8.7	7.0	7.0	6.8	6.2	5.0	5.8	8.2	6.5
HOUNDOG8 (IS-TF 307 SEL)	6.7	7.3	7.8	7.7	6.9	6.8	4.9	5.8	8.7	6.5
TERRANO	7.3	8.7	8.0	5.7	8.0	6.4	4.7	6.7	8.0	6.5
JS 916	6.7	8.3	7.8	7.0	7.7	6.0	5.3	5.7	8.0	6.4
XTENDER (PPG-TF-139)	8.7	7.0	8.0	7.3	7.4	7.2	5.1	5.5	8.5	6.4
CROSSFIRE 4 (IS-TF 310 SEL)	6.7	8.7	7.7	6.7	7.3	6.2	5.1	5.3	8.8	6.4
FAITH	7.0	8.3	8.0	7.0	7.6	6.1	5.3	5.3	8.5	6.4
PPG-TF-138	4.7	8.7	7.5	8.3	7.0	6.4	5.0	5.7	8.0	6.4
IS-TF-287	9.0	7.7	6.8	7.0	7.4	6.9	4.5	6.2	8.3	6.3
SWAGGER (PST-5RO5)	6.7	7.3	6.8	6.0	7.9	6.7	4.3	6.2	8.3	6.3
PST-5BP0	7.3	8.7	7.3	7.3	7.7	6.8	4.8	5.8	8.0	6.3
BULLSEYE	8.0	8.0	7.8	7.7	7.9	6.0	4.5	5.5	8.7	6.3
PST-5MVD	8.0	8.7	8.0	6.7	7.4	6.6	4.9	4.8	8.3	6.3
TRENDING (IS-TF 269 SEL)	5.7	8.0	7.7	8.0	7.4	6.8	5.2	4.7	8.3	6.2
PSG-GSD	7.0	8.7	7.8	7.3	7.4	6.7	4.3	5.5	8.7	6.2
VERT (ATF 1612)	5.3	7.3	7.7	7.7	7.6	6.7	5.2	4.7	9.0	6.2
RHIZING MOON (IS-TF 305 SEL)	8.7	7.3	7.7	7.3	7.2	6.4	4.7	5.7	9.0	6.2
W41	6.3	8.0	6.8	8.3	7.2	6.7	5.0	5.7	8.5	6.2
SALTILLO (PST-5SALT)	5.3	8.7	6.8	7.3	8.0	6.2	5.0	5.7	8.5	6.2
PPG-TF-169	6.0	6.7	7.0	8.3	6.9	6.9	5.1	5.7	8.2	6.1
DIABLO (IS-TF 330)	9.0	8.7	7.8	7.3	7.1	6.2	4.9	5.0	8.0	6.1
TEMPLE (DZ1)	6.0	8.3	7.7	8.0	6.8	7.0	4.8	5.7	8.7	6.1
ATF 1754	7.3	9.0	7.5	7.3	7.4	6.3	4.7	4.3	8.7	6.1
PSG-8BP2	6.3	8.7	7.0	6.0	7.0	6.0	3.9	6.7	9.0	6.1
K12-MCD	8.7	8.7	7.0	6.0	6.7	6.7	4.6	5.7	8.7	6.0
ARES (PPG-TF-142)	5.7	7.0	7.0	6.3	6.8	6.0	4.6	5.0	8.2	6.0
THUNDERSTRUCK (TD1)	5.0	5.0	6.7	7.0	6.2	5.8	5.1	5.3	8.7	6.0
CAESAR (TY 10)	9.0	7.3	7.0	6.3	7.3	6.4	4.2	5.2	8.2	6.0
UNITUS (IS-TF 289)	6.7	9.0	7.7	7.3	7.2	6.1	4.5	5.5	8.2	5.9
DYNAMITE LS (PPG-TF-145)	7.3	8.0	7.7	6.3	6.0	6.3	4.1	5.2	8.0	5.9
FALCON IV	7.7	7.0	7.3	6.3	7.3	6.7	3.9	5.7	8.7	5.9
PSG-TT4	5.0	8.0	7.2	7.0	7.0	6.0	4.4	5.2	8.2	5.9
BAR FA 121089	6.3	6.7	6.5	6.7	6.9	6.2	4.5	5.0	7.8	5.8
TEMPTATION (OR-21)	5.3	7.0	6.2	7.0	6.6	6.3	4.4	5.8	8.5	5.8
INSPIRATION (PST-R5NW)	6.3	7.3	6.5	6.3	7.0	5.6	3.9	5.7	8.2	5.8
IS-TF 276 M2	4.7	5.3	6.8	7.0	7.0	6.4	4.3	5.0	8.3	5.7
IS-TF 272	4.0	7.3	7.0	7.0	7.4	6.1	4.3	5.3	8.5	5.7
MERIDIAN (PST-5GRB)	7.3	8.3	5.8	7.0	6.8	5.8	4.0	6.0	8.3	5.6
RAD-TF-89	6.7	7.7	7.5	7.0	6.9	5.8	4.5	5.0	8.5	5.6
AQUADUCT	5.7	6.7	6.2	5.3	7.4	6.4	3.3	5.5	8.2	5.6
HOVER (BURL TF-69)	3.0	7.0	7.3	7.7	7.1	6.6	4.6	4.3	8.3	5.6

TABLE 33.
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

NAME	BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/									MEAN
	AR1	CT1	IN1	KY1	MD1	NC1	NJ2	OK1	TN1	
PST-5DZP	4.3	6.0	7.0	5.7	7.2	5.9	3.8	5.3	8.2	5.6
BAR FA 121095	7.3	5.0	6.8	6.3	6.3	5.9	4.3	5.0	8.3	5.6
KY-31	9.0	7.7	7.8	8.0	7.1	6.4	3.1	5.5	7.7	5.5
JS 818	2.3	6.0	6.3	7.0	7.2	5.6	4.3	5.8	8.5	5.4
KINGDOM (DB1)	3.7	4.7	6.5	8.0	5.9	5.7	4.3	5.0	8.3	5.4
OLYMPUS (RAD-TF-88)	3.7	6.3	7.5	7.7	7.1	5.9	4.1	4.3	8.3	5.4
RAD-TF-83	5.7	8.0	6.5	7.0	6.2	6.2	4.3	3.7	8.2	5.3
JS 819	4.7	6.3	6.5	6.3	6.6	5.6	3.8	5.5	8.0	5.3
RAD-TF-92	6.3	6.0	6.7	6.7	6.3	6.3	4.1	4.7	8.5	5.3
JS 825	6.7	5.7	6.5	5.7	6.4	6.0	3.3	5.3	7.7	5.2
FRONTLINE (EXP TF-09)	7.7	5.0	6.3	7.0	6.6	5.1	3.3	5.8	8.3	5.2
MEMPHIS (GO-DFR)	2.7	6.0	6.3	6.0	6.3	6.2	3.7	5.7	8.3	5.2
RAIN DANCE (PST-5SDT)	3.7	7.0	6.5	6.7	6.6	6.3	3.8	5.0	7.7	5.1
BAR FA 120878	6.7	7.0	6.7	7.0	7.3	5.7	2.9	5.3	7.3	5.1
K12-05	3.3	5.0	6.2	5.7	5.0	6.0	4.3	5.3	7.7	5.1
BAR FA 121091	2.7	5.0	6.8	6.0	6.3	5.6	3.3	4.7	7.5	4.8
JS 809	2.0	5.7	5.5	6.0	6.6	6.0	3.2	5.5	7.0	4.8
K12-13	6.0	4.7	6.0	6.0	5.8	6.0	2.8	4.8	7.8	4.7
WARHAWK	4.0	5.7	5.2	5.3	5.0	5.6	2.7	6.0	8.3	4.7
ANNIHILATOR	5.0	6.3	5.5	5.7	5.0	4.8	3.0	5.0	8.3	4.7
MARAUDER	3.0	5.7	5.3	5.3	4.2	5.3	2.5	4.7	8.0	4.2
COMP. RES. SST	2.0	5.3	5.0	6.3	5.3	5.2	2.7	4.5	8.0	4.2
204 RES. BLK4	0.7	6.3	4.2	5.3	5.4	5.1	2.3	4.5	8.3	4.1
LSD VALUE	3.9	1.7	1.5	1.5	1.5	1.6	1.8	1.7	0.9	1.1
C.V. (%)	36.9	13.5	12.6	13.2	12.7	16.0	23.2	21.6	6.9	18.6

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 34.

 PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/
 2013-17 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	CA3	OK1	TN1	MEAN	NAME	CA3	OK1	TN1	MEAN
ATF 1704	9.0	8.3	9.0	8.8	TRENDING (IS-TF 269 SEL)	8.3	7.0	8.7	8.1
UNITUS (IS-TF 289)	8.7	8.7	9.0	8.8	AQUADUCT	8.7	6.7	8.3	8.1
MERIDIAN (PST-5GRB)	8.7	8.0	9.0	8.6	GRANDE 3	8.0	7.7	8.7	8.1
TURFWAY (IS-TF 282 M2)	8.7	8.3	8.7	8.6	K12-05	8.7	6.0	9.0	8.1
CAESAR (TY 10)	9.0	7.7	8.3	8.5	PSG-8BP2	8.0	7.7	8.7	8.1
DIABLO (IS-TF 330)	8.7	8.0	8.7	8.5	BAR FA 121089	8.3	6.7	8.7	8.0
FOXHOOUND (IS-TF 284 M2)	8.7	7.7	9.0	8.5	FIRECRACKER SLS (PPG-TF-105)	8.3	6.7	8.7	8.0
GTO (BURL TF-2)	8.3	9.0	8.3	8.5	IS-TF 276 M2	8.7	6.3	8.3	8.0
INSPIRATION (PST-R5NW)	8.7	8.0	8.7	8.5	RHIZING MOON (IS-TF 305 SEL)	8.0	7.0	9.0	8.0
ROCKWELL (LTP-TWUU)	8.7	8.0	8.7	8.5	VALKYRIE LS (PPG-TF-172)	8.7	6.3	8.3	8.0
SALTILLO (PST-5SALT)	8.3	8.3	9.0	8.5	FESNOVA	7.7	8.0	8.3	7.9
SCREAMER LS (PPG-TF-148)	8.3	8.7	8.7	8.5	REFLECTION (U45)	9.0	5.7	8.0	7.9
VERT (ATF 1612)	8.7	7.7	9.0	8.5	TEMPTATION (OR-21)	8.0	7.3	8.3	7.9
4TH MILLENNIUM SRP (U43)	8.7	8.3	8.0	8.4	BAR FA 120878	8.0	7.0	8.7	7.9
BULLSEYE	8.3	8.3	8.7	8.4	BLACK TAIL (PPG-TF-150)	8.7	5.3	9.0	7.9
PARAMOUNT (PPG-TF-137)	8.3	8.0	9.0	8.4	JS 818	8.7	6.3	8.0	7.9
PST-5BP0	8.3	8.0	9.0	8.4	K12-13	8.7	5.7	8.7	7.9
REGENERATE	8.3	8.3	8.7	8.4	PPG-TF-169	8.7	6.7	7.7	7.9
ROWDY (SRX-TPC)	8.3	8.3	8.7	8.4	PST-5DZP	8.7	6.0	8.3	7.9
FAITH	8.7	7.7	8.7	8.4	REBOUNDER (PICK-W43)	8.0	7.0	8.7	7.9
IS-TF 311	8.7	7.3	9.0	8.4	BLOODHOUND (MET 6 SEL)	8.3	5.7	9.0	7.8
LEONARDO (LTP-FSD)	9.0	7.0	8.7	8.4	FALCON V	8.0	7.0	8.3	7.8
HOUNDOG8 (IS-TF 307 SEL)	8.3	7.7	9.0	8.3	IS-TF-287	7.3	8.3	8.3	7.8
PPG-TF-135	8.3	7.7	9.0	8.3	TITANIUM 2LS (PPG-TF-152)	7.7	7.0	9.0	7.8
SWAGGER (PST-5RO5)	8.0	8.3	9.0	8.3	XTENDER (PPG-TF-139)	8.3	6.0	8.7	7.8
IS-TF 272	8.7	7.3	8.7	8.3	FAYETTE (IS-TF 291)	8.0	6.7	8.7	7.8
PSG-GSD	8.3	8.0	8.7	8.3	JS 825	8.7	5.7	8.3	7.8
PST-5BRK	8.7	7.0	9.0	8.3	MICHELANGELO (LTP-F5DPDR)	8.0	6.7	8.7	7.8
FIREBIRD 2	8.3	7.7	8.7	8.3	HOT ROD (BURL TF-136)	8.0	6.7	8.3	7.8
JS 916	8.3	7.3	9.0	8.3	JS 809	8.0	6.7	8.3	7.8
K12-MCD	8.3	7.7	8.7	8.3	MET-3	8.3	5.7	8.7	7.8
KY-31	8.7	7.3	8.3	8.3	NIGHTCRAWLER (IS-TF 285)	7.7	6.7	9.0	7.8
MAESTRO (T31)	8.7	7.0	8.7	8.3	PPG-TF-138	7.7	6.7	9.0	7.8
RAIN DANCE (PST-5SDT)	8.7	6.7	9.0	8.3	REBEL V (ATF 1736)	7.0	8.3	8.7	7.8
TECHNIQUE (RZ2)	7.7	8.7	9.0	8.3	CATALYST	7.0	8.0	8.7	7.7
MEMPHIS (GO-DFR)	8.3	7.0	9.0	8.2	CROSSFIRE 4 (IS-TF 310 SEL)	7.3	7.0	9.0	7.7
MET 1	8.3	8.0	8.0	8.2	KINGDOM (DB1)	8.7	5.3	8.0	7.7
PSG-PO1	8.3	7.7	8.3	8.2	SUPERSONIC (PPG-TF-170)	7.7	6.7	8.7	7.7
PST-5EX2	8.0	7.7	9.0	8.2	TRINITY (BIZEM)	7.3	7.0	9.0	7.7
RHAMBLER 2 SRP (LSD)	8.0	7.7	9.0	8.2	ARES (PPG-TF-142)	8.3	4.7	9.0	7.6
TERRANO	8.3	7.7	8.3	8.2	PPG-TF-115	8.3	5.3	8.3	7.6
RAPTOR III (ZW 44)	8.0	8.0	8.7	8.2	PST-5MVD	7.3	6.7	9.0	7.6
ATF 1754	8.3	7.3	8.3	8.1	W41	7.3	7.7	8.0	7.6
EMBRACE (PST-5EV2)	7.7	8.0	9.0	8.1	DYNAMITE LS (PPG-TF-145)	8.0	5.3	9.0	7.6
F711	8.3	7.7	8.0	8.1	THOR (PPG-TF-157)	7.0	7.3	9.0	7.6
STANDOUT (IS-TF 308 SEL)	8.3	7.0	8.7	8.1	AMITY (CCR2)	7.3	6.3	9.0	7.5

TABLE 34.
(CONT'D)

PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	CA3	OK1	TN1	MEAN
B23	7.7	6.3	8.3	7.5
FRONTLINE (EXP TF-09)	7.7	6.0	8.7	7.5
JS 819	8.3	5.3	8.0	7.5
FALCON IV	8.0	5.7	8.0	7.4
AVENGER II (PPG-TF-156)	7.0	7.0	8.7	7.4
RAD-TF-89	8.0	6.3	7.3	7.4
WICHITA (PPG-TF-151)	7.3	6.7	8.3	7.4
FIREWALL (PSG-WE1)	8.0	5.0	8.3	7.3
PSG-TT4	7.7	5.3	8.7	7.3
OLYMPUS (RAD-TF-88)	8.7	5.3	6.7	7.3
TEMPLE (DZ1)	8.3	4.3	8.0	7.3
THUNDERSTRUCK (TD1)	8.0	5.0	8.0	7.3
WARHAWK	8.7	4.0	7.3	7.2
BAR FA 121091	7.7	4.7	8.3	7.1
BAR FA 121095	8.0	4.0	8.0	7.0
HEMI	7.7	4.7	8.0	7.0
RAD-TF-92	8.0	4.7	7.3	7.0
TRAVERSE 2 SRP (W45)	6.7	6.0	8.3	6.9
HOVER (BURL TF-69)	7.3	5.7	7.0	6.8
204 RES. BLK4	8.0	4.0	7.0	6.8
ANNIHILATOR	8.7	5.0	4.7	6.8
MARAUDER	9.0	3.7	5.0	6.7
RAD-TF-83	7.7	3.3	7.3	6.5
COMP. RES. SST	8.3	3.3	3.7	5.9
LSD VALUE	1.6	2.7	1.0	1.5
C.V. (%)	11.8	24.9	7.4	14.3

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.

3/ PYTHIUM BLIGHT RATED AT "CA3" IN 2017, AT "OK1" IN 2013, AND "TN1" IN 2013.

TABLE 35.

BROWN PATCH (COOL TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	TN1	NAME	TN1
BAR FA 121095	9.0	DIABLO (IS-TF 330)	8.3
F711	9.0	FAYETTE (IS-TF 291)	8.3
IS-TF 311	9.0	FIRECRACKER SLS (PPG-TF-105)	8.3
PPG-TF-135	9.0	GTO (BURL TF-2)	8.3
PPG-TF-138	9.0	INSPIRATION (PST-R5NW)	8.3
PSG-TT4	9.0	IS-TF 272	8.3
PST-5MVD	9.0	IS-TF-287	8.3
RAD-TF-89	9.0	JS 825	8.3
RAD-TF-92	9.0	K12-MCD	8.3
REFLECTION (U45)	9.0	KY-31	8.3
REGENERATE	9.0	MET-3	8.3
THOR (PPG-TF-157)	9.0	NIGHTCRAWLER (IS-TF 285)	8.3
TRINITY (BIZEM)	9.0	PST-5DZP	8.3
W41	9.0	RAIN DANCE (PST-5SDT)	8.3
4TH MILLENNIUM SRP (U43)	8.7	RAPTOR III (ZW 44)	8.3
AMITY (CCR2)	8.7	RHAMBLER 2 SRP (LSD)	8.3
ARES (PPG-TF-142)	8.7	SALTILLO (PST-5SALT)	8.3
BAR FA 121091	8.7	TECHNIQUE (RZ2)	8.3
BLACK TAIL (PPG-TF-150)	8.7	TRAVERSE 2 SRP (W45)	8.3
BLOODHOUND (MET 6 SEL)	8.7	TRENDING (IS-TF 269 SEL)	8.3
CAESAR (TY 10)	8.7	XTENDER (PPG-TF-139)	8.3
DYNAMITE LS (PPG-TF-145)	8.7	204 RES. BLK4	8.0
FAITH	8.7	BAR FA 121089	8.0
FALCON IV	8.7	FOXHOUND (IS-TF 284 M2)	8.0
FALCON V	8.7	HOUNDOG8 (IS-TF 307 SEL)	8.0
FESNOVA	8.7	K12-13	8.0
HOVER (BURL TF-69)	8.7	MAESTRO (T31)	8.0
K12-05	8.7	MEMPHIS (GO-DFR)	8.0
KINGDOM (DB1)	8.7	PST-5BRK	8.0
MERIDIAN (PST-5GRB)	8.7	PST-5EX2	8.0
OLYMPUS (RAD-TF-88)	8.7	REBEL V (ATF 1736)	8.0
PARAMOUNT (PPG-TF-137)	8.7	ROWDY (SRX-TPC)	8.0
PPG-TF-115	8.7	STANDOUT (IS-TF 308 SEL)	8.0
PST-5BP0	8.7	SWAGGER (PST-5RO5)	8.0
RAD-TF-83	8.7	TEMPLE (DZ1)	8.0
SCREAMER LS (PPG-TF-148)	8.7	TEMPTATION (OR-21)	8.0
SUPERSONIC (PPG-TF-170)	8.7	TURFWAY (IS-TF 282 M2)	8.0
TERRANO	8.7	UNITUS (IS-TF 289)	8.0
THUNDERSTRUCK (TD1)	8.7	VERT (ATF 1612)	8.0
TITANIUM 2LS (PPG-TF-152)	8.7	AQUADUCT	7.7
ATF 1704	8.3	CATALYST	7.7
AVENGER II (PPG-TF-156)	8.3	EMBRACE (PST-5EV2)	7.7
B23	8.3	FRONTLINE (EXP TF-09)	7.7
BAR FA 120878	8.3	HOT ROD (BURL TF-136)	7.7
BULLSEYE	8.3	IS-TF 276 M2	7.7
CROSSFIRE 4 (IS-TF 310 SEL)	8.3	JS 809	7.7

TABLE 35.
(CONT'D)

BROWN PATCH (COOL TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	TN1
LEONARDO (LTP-FSD)	7.7
PPG-TF-169	7.7
PSG-GSD	7.7
RHIZING MOON (IS-TF 305 SEL)	7.7
GRANDE 3	7.3
JS 818	7.3
JS 916	7.3
MET 1	7.3
PSG-PO1	7.3
REBOUNDER (PICK-W43)	7.3
ANNIHILATOR	7.0
ATF 1754	7.0
FIREWALL (PSG-WE1)	7.0
JS 819	7.0
WICHITA (PPG-TF-151)	7.0
FIREBIRD 2	6.7
HEMI	6.7
MARAUDER	6.7
MICHELANGELO (LTP-F5DPDR)	6.7
ROCKWELL (LTP-TWUU)	6.7
VALKYRIE LS (PPG-TF-172)	6.7
COMP. RES. SST	5.7
WARHAWK	5.7
PSG-8BP2	5.3
LSD VALUE	1.8
C.V. (%)	14.1

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.

3/ BROWN PATCH RATED AT "TN1" IN 2016 ONLY.

TABLE 36.

PINK SNOW MOLD RATINGS OF TALL FESCUE CULTIVARS 1/
2015-16 DATA

PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MD1	NAME	MD1
BAR FA 120878	8.0	FAITH	6.7
ARES (PPG-TF-142)	7.7	FIREBIRD 2	6.7
KY-31	7.7	FIRECRACKER SLS (PPG-TF-105)	6.7
RAIN DANCE (PST-5SDT)	7.7	GTO (BURL TF-2)	6.7
TURFWAY (IS-TF 282 M2)	7.7	JS 916	6.7
BAR FA 121091	7.3	NIGHTCRAWLER (IS-TF 285)	6.7
CROSSFIRE 4 (IS-TF 310 SEL)	7.3	PPG-TF-115	6.7
F711	7.3	PPG-TF-138	6.7
FAYETTE (IS-TF 291)	7.3	PSG-PO1	6.7
FRONTLINE (EXP TF-09)	7.3	PSG-TT4	6.7
JS 818	7.3	ROWDY (SRX-TPC)	6.7
LEONARDO (LTP-FSD)	7.3	SUPERSONIC (PPG-TF-170)	6.7
MET 1	7.3	THUNDERSTRUCK (TD1)	6.7
REBEL V (ATF 1736)	7.3	TITANIUM 2LS (PPG-TF-152)	6.7
RHIZING MOON (IS-TF 305 SEL)	7.3	TRENDING (IS-TF 269 SEL)	6.7
STANDOUT (IS-TF 308 SEL)	7.3	UNITUS (IS-TF 289)	6.7
SWAGGER (PST-5RO5)	7.3	VALKYRIE LS (PPG-TF-172)	6.7
TEMPLE (DZ1)	7.3	W41	6.7
BAR FA 121089	7.0	AQUADUCT	6.3
CAESAR (TY 10)	7.0	EMBRACE (PST-5EV2)	6.3
CATALYST	7.0	FESNOVA	6.3
FOXHOUND (IS-TF 284 M2)	7.0	JS 809	6.3
HEMI	7.0	PARAMOUNT (PPG-TF-137)	6.3
INSPIRATION (PST-R5NW)	7.0	PSG-8BP2	6.3
IS-TF 276 M2	7.0	PST-5BP0	6.3
IS-TF 311	7.0	REFLECTION (U45)	6.3
JS 819	7.0	SALTILLO (PST-5SALT)	6.3
JS 825	7.0	SCREAMER LS (PPG-TF-148)	6.3
MICHELANGELO (LTP-F5DPDR)	7.0	TECHNIQUE (RZ2)	6.3
PSG-GSD	7.0	TEMPTATION (OR-21)	6.3
PST-5DZP	7.0	TRINITY (BIZEM)	6.3
PST-5EX2	7.0	BLACK TAIL (PPG-TF-150)	6.0
PST-5MVD	7.0	DIABLO (IS-TF 330)	6.0
ROCKWELL (LTP-TWUU)	7.0	DYNAMITE LS (PPG-TF-145)	6.0
THOR (PPG-TF-157)	7.0	FALCON IV	6.0
TRAVERSE 2 SRP (W45)	7.0	FALCON V	6.0
4TH MILLENNIUM SRP (U43)	6.7	FIREWALL (PSG-WE1)	6.0
AMITY (CCR2)	6.7	HOT ROD (BURL TF-136)	6.0
ANNIHILATOR	6.7	HOUND08 (IS-TF 307 SEL)	6.0
ATF 1704	6.7	K12-05	6.0
AVENGER II (PPG-TF-156)	6.7	K12-MCD	6.0
B23	6.7	MAESTRO (T31)	6.0
BAR FA 121095	6.7	MARAUDER	6.0
BLOODHOUND (MET 6 SEL)	6.7	MEMPHIS (GO-DFR)	6.0
BULLSEYE	6.7	PST-5BRK	6.0
COMP. RES. SST	6.7	REBOUNDER (PICK-W43)	6.0

TABLE 36. PINK SNOW MOLD RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2015-16 DATA

PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MD1
XTENDER (PPG-TF-139)	6.0
ATF 1754	5.7
IS-TF 272	5.7
IS-TF-287	5.7
KINGDOM (DB1)	5.7
MET-3	5.7
RAD-TF-83	5.7
RAPTOR III (ZW 44)	5.7
REGENERATE	5.7
TERRANO	5.7
WARHAWK	5.7
WICHITA (PPG-TF-151)	5.7
204 RES. BLK4	5.3
GRANDE 3	5.3
RHAMBLER 2 SRP (LSD)	5.3
HOVER (BURL TF-69)	5.0
PPG-TF-135	5.0
RAD-TF-89	5.0
K12-13	4.7
MERIDIAN (PST-5GRB)	4.7
RAD-TF-92	4.7
PPG-TF-169	4.3
VERT (ATF 1612)	4.3
OLYMPUS (RAD-TF-88)	4.0
LSD VALUE	1.7
C.V. (%)	16.3

- 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.
- 3/ PINK SNOW MOLD RATED IN 2015-2016.

TABLE 37.

FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	IL1	NE1	OK1	MEAN	NAME	IL1	NE1	OK1	MEAN
RAD-TF-92	6.0	6.3	7.0	6.4	FALCON V	6.0	5.7	6.7	5.7
PPG-TF-135	6.0	6.0	7.7	6.1	FIRECRACKER SLS (PPG-TF-105)	7.0	5.5	6.3	5.7
REGENERATE	6.0	6.1	7.0	6.1	REFLECTION (U45)	5.3	5.7	7.3	5.7
THOR (PPG-TF-157)	6.7	5.8	7.7	6.0	REBEL V (ATF 1736)	5.7	5.7	6.7	5.7
FIREWALL (PSG-WE1)	6.3	5.9	6.3	6.0	DIABLO (IS-TF 330)	6.3	5.6	6.3	5.7
HEMI	6.0	5.9	7.0	6.0	RAD-TF-83	5.7	5.6	6.7	5.7
PPG-TF-169	6.3	5.9	6.3	6.0	ROCKWELL (LTP-TWUU)	5.3	5.7	7.0	5.7
RAD-TF-89	5.7	5.9	7.7	6.0	TECHNIQUE (RZ2)	6.3	5.5	6.7	5.7
SUPERSONIC (PPG-TF-170)	6.7	5.9	7.0	6.0	BULLSEYE	6.0	5.5	7.0	5.6
AMITY (CCR2)	6.0	6.0	6.0	5.9	FESNOVA	6.3	5.5	7.0	5.6
4TH MILLENNIUM SRP (U43)	5.7	5.9	7.0	5.9	IS-TF 272	5.7	5.4	7.7	5.6
PARAMOUNT (PPG-TF-137)	6.3	5.7	7.3	5.9	PPG-TF-138	6.3	5.5	6.7	5.6
PSG-PO1	5.7	5.9	7.3	5.9	HOUNDOG8 (IS-TF 307 SEL)	6.0	5.5	7.0	5.6
TITANIUM 2LS (PPG-TF-152)	6.3	5.8	7.0	5.9	SCREAMER LS (PPG-TF-148)	5.7	5.6	6.7	5.6
TRAVERSE 2 SRP (W45)	6.0	5.9	7.3	5.9	ATF 1704	5.3	5.6	6.0	5.6
HOT ROD (BURL TF-136)	6.0	5.9	6.3	5.9	EMBRACE (PST-5EV2)	6.0	5.5	6.3	5.6
TRENDING (IS-TF 269 SEL)	5.7	5.9	6.7	5.9	FOXHOUND (IS-TF 284 M2)	6.3	5.4	7.3	5.6
VALKYRIE LS (PPG-TF-172)	6.3	5.9	6.7	5.9	IS-TF 276 M2	5.7	5.6	6.7	5.6
BLACK TAIL (PPG-TF-150)	6.3	5.9	6.3	5.9	JS 916	6.0	5.5	6.3	5.6
MET 1	5.7	5.9	7.0	5.9	VERT (ATF 1612)	6.0	5.5	6.7	5.6
RAPTOR III (ZW 44)	5.3	5.9	7.3	5.9	K12-MCD	5.7	5.4	7.3	5.6
REBOUNDER (PICK-W43)	5.7	5.9	6.3	5.9	PST-5MVD	6.0	5.5	6.7	5.6
GTO (BURL TF-2)	5.7	5.7	7.0	5.8	IS-TF-287	5.3	5.5	6.7	5.6
THUNDERSTRUCK (TD1)	7.0	5.7	6.7	5.8	MERIDIAN (PST-5GRB)	6.0	5.4	6.3	5.6
B23	6.3	5.8	6.7	5.8	RHAMBLER 2 SRP (LSD)	6.3	5.5	6.3	5.6
GRANDE 3	6.0	5.7	7.3	5.8	ROWDY (SRX-TPC)	5.7	5.5	6.3	5.6
MET-3	6.0	5.8	7.3	5.8	IS-TF 311	6.0	5.4	6.0	5.6
PPG-TF-115	6.7	5.6	7.3	5.8	NIGHTCRAWLER (IS-TF 285)	6.0	5.3	7.0	5.5
STANDOUT (IS-TF 308 SEL)	6.0	5.6	7.3	5.8	PST-5DZP	6.7	5.2	7.0	5.5
F711	6.0	5.8	6.7	5.8	ARES (PPG-TF-142)	6.3	5.4	6.7	5.5
AVENGER II (PPG-TF-156)	6.0	5.8	6.7	5.8	CATALYST	6.0	5.5	6.7	5.5
TEMPTATION (OR-21)	6.7	5.5	7.7	5.8	FALCON IV	6.0	5.3	7.3	5.5
W41	6.3	5.7	6.3	5.8	PST-5BRK	6.0	5.3	7.3	5.5
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	5.7	8.0	5.8	RAIN DANCE (PST-5SDT)	6.0	5.4	6.3	5.5
TRINITY (BIZEM)	6.3	5.7	7.0	5.8	SALTILLO (PST-5SALT)	6.3	5.2	7.0	5.5
KINGDOM (DB1)	6.3	5.7	7.0	5.8	ATF 1754	5.7	5.5	6.0	5.5
LEONARDO (LTP-FSD)	6.0	5.7	6.3	5.8	MICHELANGELO (LTP-F5DPDR)	5.3	5.3	6.7	5.5
MAESTRO (T31)	6.3	5.6	7.0	5.8	RHIZING MOON (IS-TF 305 SEL)	5.7	5.5	6.0	5.5
OLYMPUS (RAD-TF-88)	6.0	5.7	7.3	5.8	TERRANO	5.3	5.3	7.3	5.5
FAYETTE (IS-TF 291)	6.3	5.7	6.7	5.7	UNITUS (IS-TF 289)	6.7	5.1	7.0	5.5
K12-05	6.0	5.6	7.0	5.7	XTENDER (PPG-TF-139)	6.0	5.3	7.0	5.5
TEMPLE (DZ1)	6.3	5.6	6.3	5.7	PSG-GSD	5.7	5.3	6.7	5.4
WICHITA (PPG-TF-151)	6.3	5.6	6.7	5.7	MEMPHIS (GO-DFR)	6.0	5.3	6.7	5.4
BLOODHOUND (MET 6 SEL)	4.7	5.9	5.7	5.7	SWAGGER (PST-5RO5)	6.0	5.3	6.7	5.4
HOVER (BURL TF-69)	5.7	5.7	6.3	5.7	FRONTLINE (EXP TF-09)	6.0	5.2	7.3	5.4
FAITH	6.0	5.5	7.7	5.7	INSPIRATION (PST-R5NW)	6.0	5.3	5.7	5.4

TABLE 37. FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	IL1	NE1	OK1	MEAN
K12-13	6.3	5.2	6.7	5.4
TURFWAY (IS-TF 282 M2)	6.0	5.1	7.0	5.4
PST-5BP0	5.3	5.4	6.3	5.4
CAESAR (TY 10)	5.3	5.2	6.7	5.3
FIREBIRD 2	6.3	5.2	6.3	5.3
JS 818	6.3	5.1	7.0	5.3
PST-5EX2	5.7	5.3	5.7	5.3
BAR FA 121089	5.7	5.1	6.3	5.3
PSG-TT4	5.7	5.1	6.7	5.3
DYNAMITE LS (PPG-TF-145)	6.3	5.1	7.0	5.3
PSG-8BP2	6.0	5.1	6.3	5.3
JS 809	6.0	5.1	6.0	5.2
204 RES. BLK4	5.7	5.1	5.7	5.1
JS 819	5.7	4.9	6.7	5.1
MARAUDER	6.0	5.0	5.7	5.1
BAR FA 121091	6.0	4.7	6.7	5.1
ANNIHILATOR	6.3	4.9	6.0	5.0
JS 825	5.7	4.8	6.3	5.0
WARHAWK	5.7	4.8	6.7	5.0
COMP. RES. SST	5.3	4.9	6.0	5.0
AQUADUCT	6.0	4.7	6.3	5.0
BAR FA 121095	6.0	4.8	6.0	5.0
BAR FA 120878	6.0	4.2	6.3	4.6
KY-31	3.0	3.5	5.0	3.5
LSD VALUE	1.1	0.9	1.3	0.8
C.V. (%)	11.6	10.4	12.2	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.

3/ FALL COLOR (OCTOBER) RATED AT "IL1" IN 2013, AT "NE1" IN 2013-2017, AND "OK1" IN 2014.

TABLE 38.

FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-17 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	AR1	IL1	MEAN	NAME	AR1	IL1	MEAN
TURFWAY (IS-TF 282 M2)	7.0	6.9	6.9	SALTILLO (PST-5SALT)	6.7	6.3	6.4
JS 818	7.3	6.6	6.8	THUNDERSTRUCK (TD1)	6.7	6.3	6.4
THOR (PPG-TF-157)	6.7	6.8	6.8	TITANIUM 2LS (PPG-TF-152)	6.7	6.3	6.4
ARES (PPG-TF-142)	7.3	6.4	6.7	TRAVERSE 2 SRP (W45)	6.7	6.3	6.4
FRONTLINE (EXP TF-09)	7.0	6.6	6.7	WARHAWK	7.0	6.2	6.4
OLYMPUS (RAD-TF-88)	7.0	6.6	6.7	WICHITA (PPG-TF-151)	6.7	6.3	6.4
PPG-TF-138	7.3	6.4	6.7	AVENGER II (PPG-TF-156)	6.3	6.4	6.4
STANDOUT (IS-TF 308 SEL)	6.7	6.7	6.7	FIREBIRD 2	7.3	6.1	6.4
TEMPTATION (OR-21)	6.3	6.8	6.7	PSG-8BP2	7.0	6.2	6.4
TRENDING (IS-TF 269 SEL)	7.7	6.3	6.7	TECHNIQUE (RZ2)	6.7	6.3	6.4
RHAMBLER 2 SRP (LSD)	7.3	6.4	6.7	XTENDER (PPG-TF-139)	7.3	6.1	6.4
B23	6.7	6.6	6.6	BLACK TAIL (PPG-TF-150)	6.7	6.2	6.3
CAESAR (TY 10)	6.7	6.6	6.6	PSG-PO1	6.7	6.2	6.3
KINGDOM (DB1)	6.7	6.6	6.6	PST-5MVD	6.7	6.2	6.3
RAD-TF-92	7.3	6.3	6.6	RAIN DANCE (PST-5SDT)	6.7	6.2	6.3
GRANDE 3	6.3	6.7	6.6	REGENERATE	6.7	6.2	6.3
INSPIRATION (PST-R5NW)	7.3	6.3	6.6	BAR FA 121091	6.7	6.2	6.3
IS-TF 272	7.0	6.4	6.6	BLOODHOUND (MET 6 SEL)	6.3	6.3	6.3
MET-3	6.3	6.7	6.6	COMP. RES. SST	7.0	6.1	6.3
PPG-TF-115	7.0	6.4	6.6	DYNAMITE LS (PPG-TF-145)	6.3	6.3	6.3
RHIZING MOON (IS-TF 305 SEL)	6.7	6.6	6.6	FALCON V	6.7	6.2	6.3
TERRANO	8.0	6.1	6.6	FAYETTE (IS-TF 291)	6.0	6.4	6.3
F711	6.7	6.4	6.5	GTO (BURL TF-2)	6.3	6.3	6.3
ATF 1754	7.0	6.3	6.5	IS-TF-287	6.3	6.3	6.3
DIABLO (IS-TF 330)	6.3	6.6	6.5	JS 819	6.3	6.3	6.3
FIRECRACKER SLS (PPG-TF-105)	7.0	6.3	6.5	JS 916	6.3	6.3	6.3
FOXHOUND (IS-TF 284 M2)	7.0	6.3	6.5	MICHELANGELO (LTP-F5DPDR)	6.0	6.4	6.3
HOUNDOG8 (IS-TF 307 SEL)	6.0	6.7	6.5	RAD-TF-83	7.0	6.1	6.3
MET 1	7.0	6.3	6.5	REFLECTION (U45)	6.7	6.2	6.3
NIGHTCRAWLER (IS-TF 285)	6.3	6.6	6.5	VALKYRIE LS (PPG-TF-172)	6.7	6.2	6.3
PPG-TF-169	7.0	6.3	6.5	HOT ROD (BURL TF-136)	7.0	6.0	6.3
PST-5EX2	7.3	6.2	6.5	LEONARDO (LTP-FSD)	6.0	6.3	6.3
ROCKWELL (LTP-TWUU)	6.3	6.6	6.5	204 RES. BLK4	6.3	6.2	6.3
SUPERSONIC (PPG-TF-170)	6.7	6.4	6.5	4TH MILLENNIUM SRP (U43)	6.3	6.2	6.3
VERT (ATF 1612)	6.7	6.4	6.5	ANNIHILATOR	6.3	6.2	6.3
FESNOVA	7.0	6.3	6.5	AQUADUCT	6.7	6.1	6.3
PST-5DZP	7.0	6.3	6.5	ATF 1704	6.3	6.2	6.3
REBEL V (ATF 1736)	6.3	6.6	6.5	CROSSFIRE 4 (IS-TF 310 SEL)	6.0	6.3	6.3
UNITUS (IS-TF 289)	6.0	6.7	6.5	EMBRACE (PST-5EV2)	6.7	6.1	6.3
W41	7.0	6.3	6.5	HOVER (BURL TF-69)	6.3	6.2	6.3
BAR FA 121089	6.7	6.3	6.4	IS-TF 276 M2	6.7	6.1	6.3
HEMI	6.7	6.3	6.4	JS 825	6.3	6.2	6.3
IS-TF 311	6.7	6.3	6.4	K12-05	7.0	6.0	6.3
MEMPHIS (GO-DFR)	6.7	6.3	6.4	K12-13	6.3	6.2	6.3
RAPTOR III (ZW 44)	6.3	6.4	6.4	MAESTRO (T31)	6.3	6.2	6.3
ROWDY (SRX-TPC)	6.7	6.3	6.4	PPG-TF-135	6.3	6.2	6.3

TABLE 38. FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-17 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	AR1	IL1	MEAN
PSG-GSD	6.3	6.2	6.3
PST-5BRK	6.3	6.2	6.3
RAD-TF-89	6.7	6.1	6.3
TEMPLE (DZ1)	5.7	6.4	6.3
AMITY (CCR2)	6.3	6.2	6.3
SCREAMER LS (PPG-TF-148)	6.3	6.2	6.3
SWAGGER (PST-5RO5)	6.3	6.2	6.3
BULLSEYE	6.3	6.1	6.2
K12-MCD	5.7	6.3	6.2
FALCON IV	5.3	6.4	6.2
PARAMOUNT (PPG-TF-137)	6.3	6.1	6.2
BAR FA 121095	6.7	5.9	6.1
FIREWALL (PSG-WE1)	6.0	6.1	6.1
MARAUDER	6.3	6.0	6.1
MERIDIAN (PST-5GRB)	6.7	5.9	6.1
PST-5BP0	6.7	5.9	6.1
CATALYST	6.3	6.0	6.1
FAITH	6.3	6.0	6.1
REBOUNDER (PICK-W43)	6.0	6.1	6.1
JS 809	5.7	6.1	6.0
PSG-TT4	6.3	5.9	6.0
TRINITY (BIZEM)	6.3	5.9	6.0
BAR FA 120878	6.3	5.8	5.9
KY-31	4.7	4.6	4.6
LSD VALUE	1.3	0.9	1.0
C.V. (%)	12.1	8.7	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.

3/ FALL COLOR (NOVEMBER) RATED AT "AR1" IN 2013, AND "IL1" IN 2014-2015 & 2017.

TABLE 39.

FALL COLOR (DECEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2013-15 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	GA1	MS1	OK1	MEAN	NAME	GA1	MS1	OK1	MEAN
REGENERATE	6.5	6.3	7.7	7.1	TRINITY (BIZEM)	6.0	6.5	6.8	6.6
WICHITA (PPG-TF-151)	5.7	6.5	7.5	6.9	FIREWALL (PSG-WE1)	5.0	6.7	7.0	6.6
MET-3	6.5	6.8	7.2	6.9	RAD-TF-83	6.0	5.8	7.2	6.6
OLYMPUS (RAD-TF-88)	7.0	6.0	7.5	6.9	THOR (PPG-TF-157)	5.7	6.2	7.2	6.6
ARES (PPG-TF-142)	6.0	6.2	7.5	6.8	F711	5.0	6.7	6.8	6.5
CAESAR (TY 10)	6.0	6.5	7.3	6.8	HOVER (BURL TF-69)	6.0	6.3	6.8	6.5
FAITH	6.0	6.7	7.2	6.8	JS 818	.	6.0	6.8	6.5
FAYETTE (IS-TF 291)	5.3	6.7	7.3	6.8	LEONARDO (LTP-FSD)	5.3	6.5	6.8	6.5
FRONTLINE (EXP TF-09)	6.0	6.5	7.3	6.8	MAESTRO (T31)	6.3	6.8	6.5	6.5
PPG-TF-135	6.0	6.3	7.3	6.8	PST-5BRK	5.0	6.2	7.2	6.5
RAPTOR III (ZW 44)	6.0	6.7	7.2	6.8	PST-5MVD	6.0	6.2	6.8	6.5
REFLECTION (U45)	6.0	6.3	7.3	6.8	SALTILLO (PST-5SALT)	5.3	6.3	6.8	6.5
PARAMOUNT (PPG-TF-137)	6.0	6.8	7.0	6.8	THUNDERSTRUCK (TD1)	6.0	6.2	6.8	6.5
GRANDE 3	6.0	6.5	7.2	6.8	FESNOVA	5.5	6.3	6.8	6.5
K12-05	5.3	6.3	7.5	6.8	MET 1	5.5	6.7	6.7	6.5
SCREAMER LS (PPG-TF-148)	5.5	7.0	7.0	6.8	ROCKWELL (LTP-TWUU)	5.5	6.3	7.0	6.5
PST-5EX2	5.7	6.7	7.0	6.7	204 RES. BLK4	.	6.0	6.8	6.4
REBOUNDER (PICK-W43)	6.0	6.3	7.2	6.7	BLOODHOUND (MET 6 SEL)	5.0	6.5	6.8	6.4
RAD-TF-89	6.0	6.5	7.2	6.7	K12-MCD	6.0	5.8	7.0	6.4
XTENDER (PPG-TF-139)	5.5	6.2	7.3	6.7	PSG-TT4	5.3	6.3	6.8	6.4
4TH MILLENNIUM SRP (U43)	6.0	6.3	7.2	6.7	PST-5BP0	5.7	6.0	7.0	6.4
GTO (BURL TF-2)	6.3	6.3	7.0	6.7	RHIZING MOON (IS-TF 305 SEL)	5.7	6.0	7.0	6.4
SUPERSONIC (PPG-TF-170)	5.3	6.3	7.3	6.7	STANDOUT (IS-TF 308 SEL)	5.3	6.2	7.0	6.4
TITANIUM 2LS (PPG-TF-152)	6.0	6.5	7.0	6.7	TEMPTATION (OR-21)	5.0	6.3	7.0	6.4
TECHNIQUE (RZ2)	5.5	6.7	7.0	6.6	TURFWAY (IS-TF 282 M2)	5.7	6.3	6.8	6.4
B23	6.0	6.5	6.8	6.6	VERT (ATF 1612)	5.7	6.2	6.8	6.4
BLACK TAIL (PPG-TF-150)	6.0	6.3	7.0	6.6	AMITY (CCR2)	6.0	6.5	6.7	6.4
REBEL V (ATF 1736)	5.7	6.5	7.0	6.6	FALCON V	6.0	6.2	6.8	6.4
TEMPLE (DZ1)	6.0	6.3	7.0	6.6	PPG-TF-115	5.7	5.7	7.2	6.4
TERRANO	6.0	6.2	7.2	6.6	HOT ROD (BURL TF-136)	5.5	6.2	6.8	6.4
VALKYRIE LS (PPG-TF-172)	6.0	6.3	7.0	6.6	BULLSEYE	6.0	6.2	6.7	6.4
AVENGER II (PPG-TF-156)	5.7	6.5	7.0	6.6	DIABLO (IS-TF 330)	5.7	6.0	7.0	6.4
CATALYST	6.0	6.5	7.0	6.6	FOXHOUND (IS-TF 284 M2)	5.3	6.2	7.0	6.4
COMP. RES. SST	7.0	6.0	7.0	6.6	IS-TF 276 M2	5.7	6.2	6.8	6.4
DYNAMITE LS (PPG-TF-145)	.	6.0	7.2	6.6	KINGDOM (DB1)	5.7	6.3	6.7	6.4
FIREBIRD 2	5.0	6.5	7.2	6.6	RHAMBLER 2 SRP (LSD)	6.0	6.2	6.7	6.4
MARAUDER	6.0	6.0	7.2	6.6	ROWDY (SRX-TPC)	5.0	6.5	6.8	6.4
FIRECRACKER SLS (PPG-TF-105)	5.5	6.2	7.2	6.6	TRENDING (IS-TF 269 SEL)	6.0	6.2	6.7	6.4
IS-TF 272	5.5	6.3	7.0	6.6	UNITUS (IS-TF 289)	5.7	6.2	6.8	6.4
TRAVERSE 2 SRP (W45)	5.5	6.5	7.0	6.6	RAIN DANCE (PST-5SDT)	5.7	6.2	6.7	6.4
EMBRACE (PST-5EV2)	5.3	6.2	7.2	6.6	W41	6.0	6.3	6.7	6.4
HEMI	5.3	6.0	7.2	6.6	SWAGGER (PST-5R05)	5.5	6.2	6.8	6.4
MEMPHIS (GO-DFR)	6.0	6.3	7.0	6.6	ANNIHILATOR	6.5	6.3	6.5	6.4
MICHELANGELO (LTP-F5DPDR)	5.7	6.3	7.0	6.6	JS 819	5.5	5.8	7.0	6.4
PSG-GSD	6.0	6.3	6.8	6.6	PPG-TF-138	5.5	6.2	6.8	6.4
PSG-PO1	6.0	6.2	7.0	6.6	ATF 1704	5.7	6.3	6.7	6.3

TABLE 39. FALL COLOR (DECEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013-15 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	GA1	MS1	OK1	MEAN
HOUNDOG8 (IS-TF 307 SEL)	5.0	6.3	6.8	6.3
JS 916	5.7	6.5	6.5	6.3
MERIDIAN (PST-5GRB)	4.0	6.2	7.2	6.3
PSG-8BP2	4.7	6.2	7.0	6.3
PST-5DZP	6.0	6.2	6.7	6.3
RAD-TF-92	6.0	5.8	6.8	6.3
WARHAWK	5.7	6.0	6.8	6.3
PPG-TF-169	5.5	6.8	6.3	6.3
ATF 1754	5.7	6.0	6.7	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	6.0	6.3	6.5	6.3
NIGHTCRAWLER (IS-TF 285)	5.0	6.2	6.8	6.3
BAR FA 121095	5.3	5.8	6.8	6.3
FALCON IV	6.0	5.7	6.8	6.3
K12-13	6.0	5.3	6.8	6.3
INSPIRATION (PST-R5NW)	6.0	6.0	6.5	6.2
AQUADUCT	6.0	5.8	6.7	6.2
IS-TF-287	5.0	5.8	6.8	6.2
BAR FA 121091	5.0	5.8	6.7	6.1
BAR FA 121089	5.0	5.8	6.5	6.1
IS-TF 311	5.7	5.8	6.5	6.1
JS 825	5.5	5.7	6.5	6.0
BAR FA 120878	5.3	5.5	6.0	5.8
JS 809	5.0	5.5	6.3	5.7
KY-31	4.0	5.0	6.0	5.5
LSD VALUE	1.3	0.7	1.0	0.8
C.V. (%)	11.2	7.4	8.9	9.1

- 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.
- 3/ FALL COLOR (DECEMBER) RATED AT "GA1" IN 2013, "MS1" IN 2013-2014 AND "OK1" 2014-2015.

TABLE 40.

POA ANNUA RATINGS OF TALL FESCUE CULTIVARS 1/
2015 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	OK1	NAME	OK1
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	PST-5DZP	8.3
HOUNDOG8 (IS-TF 307 SEL)	9.0	PST-5MVD	8.3
MAESTRO (T31)	9.0	RAD-TF-89	8.3
TURFWAY (IS-TF 282 M2)	9.0	RAIN DANCE (PST-5SDT)	8.3
AVENGER II (PPG-TF-156)	8.7	RAPTOR III (ZW 44)	8.3
BLOODHOUND (MET 6 SEL)	8.7	REFLECTION (U45)	8.3
EMBRACE (PST-5EV2)	8.7	SALTILLO (PST-5SALT)	8.3
FAITH	8.7	SCREAMER LS (PPG-TF-148)	8.3
FIREBIRD 2	8.7	TEMPLE (DZ1)	8.3
FOXHOUND (IS-TF 284 M2)	8.7	TEMPTATION (OR-21)	8.3
MERIDIAN (PST-5GRB)	8.7	TRINITY (BIZEM)	8.3
PST-5BRK	8.7	AMITY (CCR2)	8.0
PST-5EX2	8.7	ATF 1704	8.0
RHAMBLER 2 SRP (LSD)	8.7	B23	8.0
ROWDY (SRX-TPC)	8.7	BAR FA 121089	8.0
STANDOUT (IS-TF 308 SEL)	8.7	BAR FA 121091	8.0
SUPERSONIC (PPG-TF-170)	8.7	BAR FA 121095	8.0
SWAGGER (PST-5R05)	8.7	CAESAR (TY 10)	8.0
TECHNIQUE (RZ2)	8.7	F711	8.0
TERRANO	8.7	FALCON IV	8.0
THOR (PPG-TF-157)	8.7	FAYETTE (IS-TF 291)	8.0
TRAVERSE 2 SRP (W45)	8.7	FIRECRACKER SLS (PPG-TF-105)	8.0
VALKYRIE LS (PPG-TF-172)	8.7	GTO (BURL TF-2)	8.0
XTENDER (PPG-TF-139)	8.7	IS-TF 276 M2	8.0
AQUADUCT	8.3	IS-TF 311	8.0
ARES (PPG-TF-142)	8.3	JS 818	8.0
ATF 1754	8.3	K12-05	8.0
BLACK TAIL (PPG-TF-150)	8.3	MET 1	8.0
BULLSEYE	8.3	MET-3	8.0
DIABLO (IS-TF 330)	8.3	MICHELANGELO (LTP-F5DPDR)	8.0
FESNOVA	8.3	REBOUNDER (PICK-W43)	8.0
GRANDE 3	8.3	RHIZING MOON (IS-TF 305 SEL)	8.0
HEMI	8.3	TRENDING (IS-TF 269 SEL)	8.0
HOT ROD (BURL TF-136)	8.3	UNITUS (IS-TF 289)	8.0
INSPIRATION (PST-R5NW)	8.3	WICHITA (PPG-TF-151)	8.0
IS-TF-287	8.3	4TH MILLENNIUM SRP (U43)	7.7
JS 819	8.3	DYNAMITE LS (PPG-TF-145)	7.7
K12-MCD	8.3	FALCON V	7.7
LEONARDO (LTP-FSD)	8.3	FIREWALL (PSG-WE1)	7.7
MEMPHIS (GO-DFR)	8.3	FRONTLINE (EXP TF-09)	7.7
PPG-TF-115	8.3	HOVER (BURL TF-69)	7.7
PPG-TF-135	8.3	IS-TF 272	7.7
PPG-TF-138	8.3	JS 825	7.7
PSG-8BP2	8.3	JS 916	7.7
PSG-GSD	8.3	NIGHTCRAWLER (IS-TF 285)	7.7
PST-5BP0	8.3	PARAMOUNT (PPG-TF-137)	7.7

TABLE 40.
(CONT'D)

POA ANNUA RATINGS OF TALL FESCUE CULTIVARS 1/
2015 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	OK1
PSG-TT4	7.7
ROCKWELL (LTP-TWUU)	7.7
THUNDERSTRUCK (TD1)	7.7
TITANIUM 2LS (PPG-TF-152)	7.7
WARHAWK	7.7
CATALYST	7.3
JS 809	7.3
K12-13	7.3
KY-31	7.3
PSG-PO1	7.3
REBEL V (ATF 1736)	7.3
REGENERATE	7.3
VERT (ATF 1612)	7.3
W41	7.3
PPG-TF-169	7.0
ANNIHILATOR	6.7
KINGDOM (DB1)	6.7
RAD-TF-92	6.7
BAR FA 120878	6.3
OLYMPUS (RAD-TF-88)	6.3
RAD-TF-83	6.3
204 RES. BLK4	6.0
MARAUDER	5.3
COMP. RES. SST	4.7
LSD VALUE	1.5
C.V. (%)	11.3

- 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.
- 3/ POA ANNUA RATED IN 2015 ONLY.

TABLE 41. PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/
2013 DATA 2/

NAME	CT1	IL1	MO1	MS1	NE1	OK1	UT1	MEAN
LEONARDO (LTP-FSD)	68.3	68.3	83.3	90.0	43.3	81.7	60.0	70.7
TRAVERSE 2 SRP (W45)	61.7	80.0	81.7	93.3	33.0	81.7	46.7	70.7
KY-31	73.3	80.0	75.0	94.3	40.0	65.0	63.3	70.1
MICHELANGELO (LTP-F5DPDR)	61.7	63.3	73.3	86.7	46.7	88.3	66.7	69.5
REBOUNDER (PICK-W43)	61.7	75.0	78.3	90.0	43.3	80.0	53.3	68.8
PST-5BRK	68.3	71.7	76.7	88.3	36.7	81.7	56.7	68.6
CATALYST	63.3	80.0	75.0	86.7	33.3	80.0	60.0	68.3
4TH MILLENNIUM SRP (U43)	65.0	73.3	75.0	91.7	46.7	78.3	46.7	68.1
FAITH	58.3	83.3	81.7	90.0	33.3	81.7	46.7	67.9
SUPERSONIC (PPG-TF-170)	68.3	70.0	81.7	91.7	26.7	76.7	60.0	67.9
SWAGGER (PST-5RO5)	56.7	70.0	81.7	86.7	36.7	80.0	63.3	67.9
PST-5EX2	65.0	83.3	75.0	88.3	33.3	66.7	63.3	67.9
RAD-TF-92	58.3	81.7	75.0	88.3	30.0	83.3	56.7	67.6
RAIN DANCE (PST-5SDT)	63.3	78.3	78.3	91.7	36.7	68.3	56.7	67.6
B23	66.7	70.0	83.3	91.7	30.0	83.3	46.7	67.4
F711	68.3	76.7	76.7	91.7	33.3	65.0	60.0	67.4
ROWDY (SRX-TPC)	60.0	60.0	73.3	90.0	50.0	78.3	60.0	67.4
FALCON IV	65.0	83.3	78.3	86.7	26.7	76.7	53.3	67.1
RAPTOR III (ZW 44)	61.7	71.7	75.0	88.3	40.0	70.0	63.3	67.1
FIRECRACKER SLS (PPG-TF-105)	61.7	76.7	73.3	90.0	30.0	83.3	53.3	66.9
PST-5MVD	60.0	80.0	76.7	90.0	33.3	75.0	53.3	66.9
WARHAWK	61.7	71.7	72.5	86.7	36.7	78.7	60.0	66.8
RAD-TF-89	63.3	75.0	81.7	90.0	30.0	86.7	40.0	66.7
IS-TF-287	63.3	80.0	76.7	90.0	40.0	63.3	53.3	66.7
HOT ROD (BURL TF-136)	62.7	66.7	78.3	88.3	30.0	80.0	60.0	66.6
PST-5BPO	55.0	81.7	80.0	86.7	36.7	75.0	50.0	66.4
K12-MCD	61.7	68.3	76.7	88.3	33.3	83.3	53.3	66.4
BAR FA 120878	58.3	86.7	76.7	90.0	30.0	58.3	63.3	66.2
GRANDE 3	63.3	60.0	80.0	88.3	36.7	81.7	53.3	66.2
MET 1	66.7	75.0	78.3	91.7	30.0	58.3	63.3	66.2
PSG-TT4	58.3	81.7	75.0	88.3	26.7	70.0	63.3	66.2
ANNIHILATOR LEDEBOER	63.3	81.7	70.0	90.0	43.3	56.7	56.7	66.0
FESNOVA	58.3	73.3	76.7	88.3	36.7	73.3	53.3	65.7
RHIZING MOON (IS-TF 305 SEL)	63.3	63.3	75.0	88.3	36.7	80.0	53.3	65.7
AVENGER II (PPG-TF-156)	60.0	78.3	80.0	88.3	26.7	76.7	50.0	65.7
EMBRACE (PST-5EV2)	55.0	70.0	78.3	90.0	26.7	86.7	53.3	65.7
VERT (ATF 1612)	64.3	75.0	78.3	90.0	30.0	68.3	53.3	65.6
NIGHTCRAWLER (IS-TF 285)	56.7	71.7	76.7	90.0	33.3	76.7	53.3	65.5
GTO (BURL TF-2)	55.0	70.0	70.0	91.7	30.0	83.3	56.7	65.2
CROSSFIRE 4 (IS-TF 310 SEL)	65.0	60.0	73.3	88.3	36.7	76.7	56.7	65.2
PPG-TF-135	60.0	76.7	75.0	86.7	30.0	75.0	53.3	65.2
BULLSEYE	61.7	80.0	76.7	88.3	26.7	73.3	50.0	65.2
OLYMPUS (RAD-TF-88)	63.3	75.0	71.7	88.3	30.0	78.3	50.0	65.2
TECHNIQUE (RZ2)	60.0	73.3	75.0	88.3	26.7	83.3	50.0	65.2

TABLE 41. PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013 DATA 2/

NAME	CT1	IL1	MO1	MS1	NE1	OK1	UT1	MEAN
TITANIUM 2LS (PPG-TF-152)	65.0	70.0	76.7	90.0	26.7	76.7	50.0	65.0
XTENDER (PPG-TF-139)	53.3	71.7	78.3	88.3	20.0	86.7	56.7	65.0
FAYETTE (IS-TF 291)	55.0	66.7	75.0	91.7	40.0	81.7	43.3	64.8
FIREWALL (PSG-WEL)	58.3	66.7	71.7	86.7	40.0	76.7	53.3	64.8
THOR (PPG-TF-157)	60.0	75.0	70.0	90.0	30.0	78.3	50.0	64.8
KINGDOM (DB1)	56.7	73.3	76.7	90.0	33.3	71.7	50.0	64.5
TURFWAY (IS-TF 282 M2)	55.0	70.0	73.3	85.0	36.7	85.0	46.7	64.5
JS 819	61.7	68.3	71.7	88.3	30.0	81.7	50.0	64.5
PPG-TF-115	58.3	68.3	78.3	85.0	33.3	81.7	46.7	64.5
REGENERATE	61.7	71.7	75.0	90.0	33.3	60.0	60.0	64.5
SALTILLO (PST-5SALT)	63.3	80.0	73.3	90.0	36.7	61.7	46.7	64.5
PPG-TF-169	71.7	63.3	83.3	90.0	23.3	66.7	53.3	64.5
PARAMOUNT (PPG-TF-137)	60.0	63.3	75.0	86.7	23.3	81.7	60.0	64.3
PPG-TF-138	56.7	70.0	76.7	90.0	20.0	76.7	60.0	64.3
MERIDIAN (PST-5GRB)	70.0	68.3	76.7	90.0	33.3	65.0	46.7	64.3
JS 818	60.0	66.7	71.7	86.7	33.3	78.3	53.3	64.3
204 RES. BLK4	58.3	60.0	75.0	85.0	40.0	80.0	50.0	64.0
HEMI	60.0	63.3	75.0	88.3	26.7	81.7	53.3	64.0
INSPIRATION (PST-R5NW)	56.7	68.3	66.7	90.0	26.7	80.0	60.0	64.0
BLACK TAIL (PPG-TF-150)	65.0	65.0	76.7	88.3	23.3	73.3	56.7	64.0
COMP. RES. SST	56.7	73.3	75.0	81.7	30.0	73.3	56.7	63.8
K12-05	60.0	70.0	80.0	88.3	30.0	75.0	43.3	63.8
TRINITY (BIZEM)	56.7	78.3	73.3	86.7	26.7	76.7	46.7	63.6
BLOODHOUND (MET 6 SEL)	55.0	60.0	78.3	86.7	40.0	78.3	46.7	63.6
RHAMBLER 2 SRP (LSD)	60.0	81.7	78.3	90.0	26.7	58.3	50.0	63.6
TEMPTATION (OR-21)	55.0	73.3	71.7	88.3	30.0	76.7	50.0	63.6
HOUNDG8 (IS-TF 307 SEL)	53.3	65.0	76.7	88.3	26.7	80.0	53.3	63.3
RAD-TF-83	55.0	73.3	81.7	85.0	26.7	78.3	43.3	63.3
MARAUDER	53.3	70.0	73.3	88.3	36.7	63.3	56.7	63.1
THUNDERSTRUCK (TD1)	56.7	70.0	76.7	90.0	36.7	61.7	50.0	63.1
REBEL V (ATF 1736)	56.7	75.0	78.3	88.3	23.3	61.7	56.7	62.9
FRONTLINE (EXP TF-09)	56.7	71.7	73.3	88.3	30.0	80.0	40.0	62.9
DIABLO (IS-TF 330)	56.7	56.7	78.3	90.0	33.3	81.7	43.3	62.9
WICHITA (PPG-TF-151)	60.0	66.7	76.7	90.0	26.7	78.3	40.0	62.6
AQUADUCT	58.3	70.0	78.3	88.3	30.0	63.3	50.0	62.6
FIREBIRD 2	53.3	63.3	75.0	90.0	23.3	83.3	50.0	62.6
IS-TF 311	56.7	55.0	71.7	81.7	43.3	86.7	43.3	62.6
ROCKWELL (LTP-TWUU)	55.0	53.3	81.7	85.0	36.7	73.3	53.3	62.6
UNITUS (IS-TF 289)	61.7	66.7	76.7	91.7	40.0	50.0	50.0	62.4
W41	63.3	73.3	70.0	90.0	23.3	73.3	43.3	62.4
TEMPLE (DZ1)	51.7	66.7	75.0	88.3	30.0	73.3	50.0	62.1
JS 809	56.7	66.7	78.3	90.0	30.0	65.0	46.7	61.9
BAR FA 121089	53.3	70.0	78.3	90.0	33.3	65.0	43.3	61.9
HOVER (BURL TF-69)	53.3	73.3	73.3	88.3	30.0	75.0	40.0	61.9

TABLE 41. PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013 DATA 2/

NAME	CT1	IL1	MO1	MS1	NE1	OK1	UT1	MEAN
PSG-GSD	58.3	63.3	73.3	90.0	33.3	71.7	43.3	61.9
TERRANO	53.3	71.7	75.0	88.3	26.7	78.3	40.0	61.9
SCREAMER LS (PPG-TF-148)	58.3	63.3	70.0	88.3	26.7	75.0	50.0	61.7
STANDOUT (IS-TF 308 SEL)	50.0	83.3	75.0	83.3	30.0	70.0	40.0	61.7
PSG-PO1	58.3	56.7	76.7	88.3	33.3	75.0	43.3	61.7
MEMPHIS (GO-DFR)	56.7	73.3	76.7	90.0	23.3	63.3	46.7	61.4
IS-TF 276 M2	55.0	76.7	73.3	88.3	40.0	46.7	50.0	61.4
VALKYRIE LS (PPG-TF-172)	56.7	60.0	78.3	90.0	33.3	65.0	46.7	61.4
MAESTRO (T31)	56.7	70.0	78.3	88.3	30.0	70.0	36.7	61.4
MET-3	56.7	63.3	76.7	86.7	23.3	75.0	46.7	61.2
IS-TF 272	51.7	68.3	73.3	85.0	30.0	76.7	43.3	61.2
AMITY (CCR2)	56.7	66.7	76.7	86.7	26.7	63.3	50.0	61.0
PSG-8BP2	56.7	63.3	76.7	88.3	30.0	66.7	43.3	60.7
CAESAR (TY 10)	53.3	56.7	75.0	88.3	33.3	75.0	43.3	60.7
ATF 1704	56.7	80.0	71.7	86.7	33.3	48.3	46.7	60.5
BAR FA 121091	51.7	75.0	73.3	88.3	30.0	58.3	46.7	60.5
BAR FA 121095	51.7	60.0	68.3	88.3	30.0	71.7	53.3	60.5
REFLECTION (U45)	53.3	63.3	71.7	86.7	33.3	68.3	46.7	60.5
TRENDING (IS-TF 269 SEL)	58.3	73.3	75.0	85.0	36.7	50.0	43.3	60.2
FALCON V	53.3	75.0	75.0	86.7	23.3	60.0	46.7	60.0
ARES (PPG-TF-142)	53.3	60.0	71.7	88.3	30.0	65.0	50.0	59.8
JS 825	56.7	60.0	70.0	86.7	30.0	66.7	46.7	59.5
K12-13	50.0	65.0	75.0	85.0	30.0	71.7	40.0	59.5
FOXHOUND (IS-TF 284 M2)	51.7	60.0	70.0	86.7	36.7	66.7	40.0	58.8
DYNAMITE LS (PPG-TF-145)	43.3	71.7	70.0	86.7	16.7	73.3	50.0	58.8
ATF 1754	53.3	63.3	75.0	88.3	26.7	60.0	43.3	58.6
PST-5DZP	53.3	61.7	71.7	86.7	30.0	46.7	50.0	57.1
JS 916	53.3	53.3	75.0	83.3	23.3	66.7	40.0	56.4
LSD VALUE	9.2	16.5	9.2	4.4	11.9	26.4	14.0	5.5
C.V. (%)	9.7	14.6	7.5	3.1	23.1	22.6	17.1	14.2

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 42. EARLY SPRING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/
2013 DATA

EARLY SPRING GROUND COVER RATINGS 1-9; 9=100% COVER, 1=NONE 2/ 3/

NAME	MD1	NAME	MD1
BAR FA 120878	8.3	SCREAMER LS (PPG-TF-148)	7.0
KY-31	8.3	TEMPLE (DZ1)	7.0
PPG-TF-169	8.3	THOR (PPG-TF-157)	7.0
B23	8.0	TRINITY (BIZEM)	7.0
INSPIRATION (PST-R5NW)	8.0	WICHITA (PPG-TF-151)	7.0
LEONARDO (LTP-FSD)	8.0	AMITY (CCR2)	6.7
PPG-TF-135	8.0	ATF 1754	6.7
PST-5BRK	8.0	COMP. RES. SST	6.7
RAIN DANCE (PST-5SDT)	8.0	FAITH	6.7
REGENERATE	8.0	FALCON IV	6.7
4TH MILLENNIUM SRP (U43)	7.7	FAYETTE (IS-TF 291)	6.7
EMBRACE (PST-5EV2)	7.7	FIREBIRD 2	6.7
F711	7.7	FRONTLINE (EXP TF-09)	6.7
FESNOVA	7.7	GRANDE 3	6.7
JS 818	7.7	GTO (BURL TF-2)	6.7
MERIDIAN (PST-5GRB)	7.7	HEMI	6.7
MET 1	7.7	HOVER (BURL TF-69)	6.7
MET-3	7.7	IS-TF 276 M2	6.7
MICHELANGELO (LTP-F5DPDR)	7.7	IS-TF-287	6.7
PST-5EX2	7.7	JS 809	6.7
RAPTOR III (ZW 44)	7.7	K12-05	6.7
REBOUNDER (PICK-W43)	7.7	KINGDOM (DB1)	6.7
RHAMBLER 2 SRP (LSD)	7.7	NIGHTCRAWLER (IS-TF 285)	6.7
AQUADUCT	7.3	PST-5MVD	6.7
ATF 1704	7.3	RAD-TF-89	6.7
BULLSEYE	7.3	ROCKWELL (LTP-TWUU)	6.7
CATALYST	7.3	SALTILLO (PST-5SALT)	6.7
FALCON V	7.3	STANDOUT (IS-TF 308 SEL)	6.7
FIREWALL (PSG-WE1)	7.3	SWAGGER (PST-5RO5)	6.7
PSG-GSD	7.3	TEMPTATION (OR-21)	6.7
PSG-TT4	7.3	TERRANO	6.7
PST-5BP0	7.3	VALKYRIE LS (PPG-TF-172)	6.7
ROWDY (SRX-TPC)	7.3	W41	6.7
SUPERSONIC (PPG-TF-170)	7.3	WARHAWK	6.7
TECHNIQUE (RZ2)	7.3	XTENDER (PPG-TF-139)	6.7
TRAVERSE 2 SRP (W45)	7.3	204 RES. BLK4	6.3
ANNIHILATOR	7.0	BAR FA 121095	6.3
AVENGER II (PPG-TF-156)	7.0	BLACK TAIL (PPG-TF-150)	6.3
BAR FA 121089	7.0	FOXHOUND (IS-TF 284 M2)	6.3
BLOODHOUND (MET 6 SEL)	7.0	HOT ROD (BURL TF-136)	6.3
CAESAR (TY 10)	7.0	JS 819	6.3
FIRECRACKER SLS (PPG-TF-105)	7.0	JS 825	6.3
K12-MCD	7.0	MARAUDER	6.3
MAESTRO (T31)	7.0	MEMPHIS (GO-DFR)	6.3
PARAMOUNT (PPG-TF-137)	7.0	PPG-TF-138	6.3
REBEL V (ATF 1736)	7.0	RAD-TF-83	6.3

TABLE 42.
(CONT'D)

EARLY SPRING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/
2013 DATA

EARLY SPRING GROUND COVER RATINGS 1-9; 9=100% COVER, 1=NONE 2/ 3/

NAME	MD1
REFLECTION (U45)	6.3
TITANIUM 2LS (PPG-TF-152)	6.3
TRENDING (IS-TF 269 SEL)	6.3
VERT (ATF 1612)	6.3
ARES (PPG-TF-142)	6.0
BAR FA 121091	6.0
DIABLO (IS-TF 330)	6.0
DYNAMITE LS (PPG-TF-145)	6.0
IS-TF 272	6.0
OLYMPUS (RAD-TF-88)	6.0
PPG-TF-115	6.0
PSG-8BP2	6.0
PSG-PO1	6.0
RAD-TF-92	6.0
RHIZING MOON (IS-TF 305 SEL)	6.0
THUNDERSTRUCK (TD1)	6.0
TURFWAY (IS-TF 282 M2)	6.0
UNITUS (IS-TF 289)	6.0
CROSSFIRE 4 (IS-TF 310 SEL)	5.7
HOUNDOG8 (IS-TF 307 SEL)	5.7
IS-TF 311	5.7
JS 916	5.7
PST-5DZP	5.7
K12-13	5.0
LSD VALUE	1.0
C.V. (%)	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.
- 3/ EARLY SPRING RATED IN 2013 ONLY.

TABLE 43.

NET BLOTCH RATINGS OF TALL FESCUE CULTIVARS 1/
2013 DATA

NET BLOTCH RATINGS 1-9; 9=LEAST DISEASE 2/

NAME	NJ2	NAME	NJ2
THUNDERSTRUCK (TD1)	7.3	TERRANO	5.7
RHAMBLER 2 SRP (LSD)	7.0	AMITY (CCR2)	5.3
UNITUS (IS-TF 289)	7.0	B23	5.3
DIABLO (IS-TF 330)	6.7	COMP. RES. SST	5.3
JS 818	6.7	IS-TF 272	5.3
NIGHTCRAWLER (IS-TF 285)	6.7	IS-TF 276 M2	5.3
PPG-TF-115	6.7	IS-TF 311	5.3
THOR (PPG-TF-157)	6.7	LEONARDO (LTP-FSD)	5.3
TRENDING (IS-TF 269 SEL)	6.7	MARAUDER	5.3
BLACK TAIL (PPG-TF-150)	6.3	PSG-8BP2	5.3
DYNAMITE LS (PPG-TF-145)	6.3	RAD-TF-83	5.3
FAYETTE (IS-TF 291)	6.3	RAD-TF-89	5.3
FIREBIRD 2	6.3	RAD-TF-92	5.3
FIRECRACKER SLS (PPG-TF-105)	6.3	REBOUNDER (PICK-W43)	5.3
FOXHOUND (IS-TF 284 M2)	6.3	REFLECTION (U45)	5.3
KINGDOM (DB1)	6.3	REGENERATE	5.3
ROWDY (SRX-TPC)	6.3	ROCKWELL (LTP-TWUU)	5.3
TITANIUM 2LS (PPG-TF-152)	6.3	STANDOUT (IS-TF 308 SEL)	5.3
BULLSEYE	6.0	SUPERSONIC (PPG-TF-170)	5.3
CROSSFIRE 4 (IS-TF 310 SEL)	6.0	TECHNIQUE (RZ2)	5.3
FRONTLINE (EXP TF-09)	6.0	VALKYRIE LS (PPG-TF-172)	5.3
HOUNDOG8 (IS-TF 307 SEL)	6.0	BAR FA 121089	5.0
JS 809	6.0	F711	5.0
JS 819	6.0	FALCON IV	5.0
K12-05	6.0	HEMI	5.0
K12-MCD	6.0	HOVER (BURL TF-69)	5.0
PST-5DZP	6.0	INSPIRATION (PST-R5NW)	5.0
TEMPLE (DZ1)	6.0	JS 916	5.0
TRAVERSE 2 SRP (W45)	6.0	MET-3	5.0
TURFWAY (IS-TF 282 M2)	6.0	PST-5BRK	5.0
XTENDER (PPG-TF-139)	6.0	W41	5.0
ARES (PPG-TF-142)	5.7	WICHITA (PPG-TF-151)	5.0
BAR FA 121095	5.7	4TH MILLENNIUM SRP (U43)	4.7
FESNOVA	5.7	AVENGER II (PPG-TF-156)	4.7
FIREWALL (PSG-WE1)	5.7	CAESAR (TY 10)	4.7
HOT ROD (BURL TF-136)	5.7	GTO (BURL TF-2)	4.7
IS-TF-287	5.7	MERIDIAN (PST-5GRB)	4.7
JS 825	5.7	PSG-GSD	4.7
K12-13	5.7	ANNIHILATOR	4.3
MEMPHIS (GO-DFR)	5.7	BLOODHOUND (MET 6 SEL)	4.3
OLYMPUS (RAD-TF-88)	5.7	EMBRACE (PST-5EV2)	4.3
PPG-TF-138	5.7	FAITH	4.3
RAPTOR III (ZW 44)	5.7	MICHELANGELO (LTP-F5DPDR)	4.3
RHIZING MOON (IS-TF 305 SEL)	5.7	PARAMOUNT (PPG-TF-137)	4.3
SALTILLO (PST-5SALT)	5.7	PPG-TF-135	4.3
TEMPTATION (OR-21)	5.7	PSG-PO1	4.3

TABLE 43. NET BLOTCH RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2013 DATA

NET BLOTCH RATINGS 1-9; 9=LEAST DISEASE 2/ 3/

NAME	NJ2
SCREAMER LS (PPG-TF-148)	4.3
SWAGGER (PST-5RO5)	4.3
TRINITY (BIZEM)	4.3
WARHAWK	4.3
204 RES. BLK4	4.0
BAR FA 121091	4.0
MAESTRO (T31)	4.0
MET 1	4.0
PST-5MVD	4.0
VERT (ATF 1612)	4.0
ATF 1754	3.7
PSG-TT4	3.7
PST-5BP0	3.7
REBEL V (ATF 1736)	3.7
ATF 1704	3.3
FALCON V	3.3
PPG-TF-169	3.3
PST-5EX2	3.3
AQUADUCT	3.0
BAR FA 120878	3.0
GRANDE 3	3.0
CATALYST	2.7
RAIN DANCE (PST-5SDT)	2.7
KY-31	1.0
LSD VALUE	1.3
C.V. (%)	15.3

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.

3/ NET BLOTCH RATED IN 2013 ONLY.

TABLE 44.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
 AT WEST LAFAYETTE, IN 1/
 2013 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUL	AUG	MEAN	NAME	JUL	AUG	MEAN
ATF 1754	9.0	9.0	9.0	HOVER (BURL TF-69)	9.0	8.3	8.7
TRINITY (BIZEM)	9.0	9.0	9.0	CATALYST	8.3	9.0	8.7
GRANDE 3	9.0	9.0	9.0	FALCON V	8.7	8.7	8.7
HEMI	9.0	9.0	9.0	TRENDING (IS-TF 269 SEL)	8.7	8.7	8.7
RHIZING MOON (IS-TF 305 SEL)	9.0	9.0	9.0	HOUNDOG8 (IS-TF 307 SEL)	9.0	8.3	8.7
KY-31	9.0	9.0	9.0	CROSSFIRE 4 (IS-TF 310 SEL)	9.0	8.3	8.7
MICHELANGELO (LTP-F5DPDR)	9.0	9.0	9.0	PPG-TF-135	9.0	8.3	8.7
LEONARDO (LTP-FSD)	9.0	9.0	9.0	PPG-TF-138	9.0	8.3	8.7
MET-3	9.0	9.0	9.0	ARES (PPG-TF-142)	9.0	8.3	8.7
XTENDER (PPG-TF-139)	9.0	9.0	9.0	WICHITA (PPG-TF-151)	9.0	8.3	8.7
SCREAMER LS (PPG-TF-148)	9.0	9.0	9.0	SUPERSONIC (PPG-TF-170)	8.7	8.7	8.7
TITANIUM 2LS (PPG-TF-152)	9.0	9.0	9.0	PSG-GSD	9.0	8.3	8.7
AVENGER II (PPG-TF-156)	9.0	9.0	9.0	PSG-TT4	8.7	8.7	8.7
FIREWALL (PSG-WEL)	9.0	9.0	9.0	PST-5MVD	9.0	8.3	8.7
RAD-TF-89	9.0	9.0	9.0	ROWDY (SRX-TPC)	9.0	8.3	8.7
RHAMBLER 2 SRP (LSD)	9.0	9.0	9.0	MAESTRO (T31)	9.0	8.3	8.7
TECHNIQUE (RZ2)	9.0	9.0	9.0	TERRANO	9.0	8.3	8.7
REBEL V (ATF 1736)	9.0	8.7	8.8	W41	9.0	8.3	8.7
F711	9.0	8.7	8.8	VERT (ATF 1612)	9.0	8.0	8.5
INSPIRATION (PST-R5NW)	9.0	8.7	8.8	BULLSEYE	8.7	8.3	8.5
NIGHTCRAWLER (IS-TF 285)	9.0	8.7	8.8	AMITY (CCR2)	9.0	8.0	8.5
FAYETTE (IS-TF 291)	9.0	8.7	8.8	TEMPLE (DZ1)	8.7	8.3	8.5
DIABLO (IS-TF 330)	9.0	8.7	8.8	FAITH	9.0	8.0	8.5
IS-TF-287	9.0	8.7	8.8	FALCON IV	9.0	8.0	8.5
JS 916	9.0	8.7	8.8	HOT ROD (BURL TF-136)	9.0	8.0	8.5
REBOUNDER (PICK-W43)	8.7	9.0	8.8	IS-TF 276 M2	9.0	8.0	8.5
FIRECRACKER SLS (PPG-TF-105)	9.0	8.7	8.8	ROCKWELL (LTP-TWUU)	9.0	8.0	8.5
PPG-TF-115	9.0	8.7	8.8	MET 1	8.7	8.3	8.5
PARAMOUNT (PPG-TF-137)	8.7	9.0	8.8	BLOODHOUND (MET 6 SEL)	8.7	8.3	8.5
DYNAMITE LS (PPG-TF-145)	8.7	9.0	8.8	EMBRACE (PST-5EV2)	9.0	8.0	8.5
BLACK TAIL (PPG-TF-150)	9.0	8.7	8.8	MERIDIAN (PST-5GRB)	9.0	8.0	8.5
THOR (PPG-TF-157)	9.0	8.7	8.8	REGENERATE	8.7	8.3	8.5
PPG-TF-169	9.0	8.7	8.8	SALTILLO (PST-5SALT)	9.0	8.0	8.5
VALKYRIE LS (PPG-TF-172)	8.7	9.0	8.8	RAPTOR III (ZW 44)	9.0	8.0	8.5
PSG-8BP2	9.0	8.7	8.8	BAR FA 120878	9.0	7.7	8.3
PSG-PO1	9.0	8.7	8.8	BAR FA 121095	9.0	7.7	8.3
PST-5BPO	9.0	8.7	8.8	IS-TF 272	9.0	7.7	8.3
PST-5BRK	9.0	8.7	8.8	K12-05	8.7	8.0	8.3
PST-5EX2	9.0	8.7	8.8	PST-5DZP	9.0	7.7	8.3
SWAGGER (PST-5RO5)	9.0	8.7	8.8	RAD-TF-83	9.0	7.7	8.3
OLYMPUS (RAD-TF-88)	9.0	8.7	8.8	TRAVERSE 2 SRP (W45)	8.7	8.0	8.3
RAD-TF-92	9.0	8.7	8.8	FIREBIRD 2	9.0	7.3	8.2
4TH MILLENNIUM SRP (U43)	9.0	8.7	8.8	MEMPHIS (GO-DFR)	9.0	7.3	8.2
REFLECTION (U45)	9.0	8.7	8.8	GTO (BURL TF-2)	8.7	7.7	8.2
B23	9.0	8.3	8.7	UNITUS (IS-TF 289)	9.0	7.3	8.2

TABLE 44. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) AT WEST LAFAYETTE, IN 1/
 2013 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUL	AUG	MEAN
STANDOUT (IS-TF 308 SEL)	9.0	7.3	8.2
JS 818	9.0	7.3	8.2
K12-MCD	9.0	7.3	8.2
RAIN DANCE (PST-5SDT)	8.3	8.0	8.2
WARHAWK	9.0	7.3	8.2
ATF 1704	8.7	7.3	8.0
BAR FA 121089	8.3	7.7	8.0
FESNOVA	9.0	7.0	8.0
IS-TF 311	8.7	7.3	8.0
TURFWAY (IS-TF 282 M2)	9.0	6.7	7.8
AQUADUCT	9.0	6.3	7.7
FOXHOUND (IS-TF 284 M2)	9.0	6.3	7.7
THUNDERSTRUCK (TD1)	8.3	7.0	7.7
CAESAR (TY 10)	7.7	7.3	7.5
JS 825	8.0	7.0	7.5
KINGDOM (DB1)	8.7	6.0	7.3
FRONTLINE (EXP TF-09)	7.3	7.3	7.3
JS 809	8.7	6.0	7.3
JS 819	8.0	6.7	7.3
ANNIHILATOR LEDEBOER	8.3	6.0	7.2
COMP. RES. SST	8.7	5.7	7.2
MARAUDER	8.0	6.3	7.2
BAR FA 121091	7.7	6.0	6.8
K12-13	7.7	5.3	6.5
204 RES. BLK4	7.0	5.7	6.3
TEMPTATION (OR-21)	6.7	6.0	6.3
LSD VALUE	1.5	2.1	1.4
C.V. (%)	6.8	13.2	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.

TABLE 45.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2013 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUL_3	JUL_25	MEAN	NAME	JUL_3	JUL_25	MEAN
BLOODHOUND (MET 6 SEL)	8.3	7.0	7.7	4TH MILLENNIUM SRP (U43)	7.7	4.3	6.0
BLACK TAIL (PPG-TF-150)	8.0	7.3	7.7	RAPTOR III (ZW 44)	7.7	4.3	6.0
VALKYRIE LS (PPG-TF-172)	8.7	6.7	7.7	FOXHOUND (IS-TF 284 M2)	7.3	4.3	5.8
FIREWALL (PSG-WE1)	8.3	7.0	7.7	RHIZING MOON (IS-TF 305 SEL)	7.7	4.0	5.8
BULLSEYE	8.7	6.3	7.5	WICHITA (PPG-TF-151)	7.0	4.7	5.8
VERT (ATF 1612)	8.0	6.7	7.3	TERRANO	8.0	3.7	5.8
TRINITY (BIZEM)	8.7	6.0	7.3	ATF 1704	7.3	4.0	5.7
AMITY (CCR2)	8.3	6.3	7.3	GRANDE 3	7.3	4.0	5.7
HOUNDOG8 (IS-TF 307 SEL)	8.7	6.0	7.3	JS 916	7.7	3.7	5.7
FIRECRACKER SLS (PPG-TF-105)	7.7	7.0	7.3	LEONARDO (LTP-FSD)	7.3	4.0	5.7
PSG-GSD	8.0	6.7	7.3	PPG-TF-135	7.0	4.3	5.7
RHAMBLER 2 SRP (LSD)	8.0	6.7	7.3	SUPERSONIC (PPG-TF-170)	8.0	3.3	5.7
TECHNIQUE (RZ2)	8.3	6.3	7.3	REBEL V (ATF 1736)	7.7	3.3	5.5
FALCON V	8.3	6.0	7.2	FALCON IV	8.0	3.0	5.5
UNITUS (IS-TF 289)	8.7	5.7	7.2	KY-31	6.0	5.0	5.5
MET-3	8.0	6.3	7.2	PPG-TF-169	7.0	4.0	5.5
REGENERATE	8.3	6.0	7.2	PST-5DZP	7.7	3.3	5.5
IS-TF 311	8.0	6.0	7.0	RAIN DANCE (PST-5SDT)	7.3	3.7	5.5
ROCKWELL (LTP-TWUU)	8.3	5.7	7.0	ATF 1754	7.0	3.7	5.3
MET 1	8.0	6.0	7.0	CAESAR (TY 10)	6.7	4.0	5.3
EMBRACE (PST-5EV2)	8.7	5.3	7.0	TURFWAY (IS-TF 282 M2)	7.0	3.7	5.3
ROWDY (SRX-TPC)	8.3	5.7	7.0	SCREAMER LS (PPG-TF-148)	7.3	3.3	5.3
HEMI	8.0	5.7	6.8	PST-5MVD	6.7	4.0	5.3
F711	8.0	5.3	6.7	RAD-TF-92	7.7	3.0	5.3
MICHELANGELO (LTP-F5DPDR)	7.7	5.7	6.7	HOVER (BURL TF-69)	7.3	3.0	5.2
ARES (PPG-TF-142)	7.3	6.0	6.7	CATALYST	6.7	3.7	5.2
AVENGER II (PPG-TF-156)	8.3	5.0	6.7	PSG-TT4	6.7	3.7	5.2
REFLECTION (U45)	8.3	5.0	6.7	TEMPLE (DZ1)	7.0	3.0	5.0
FIREBIRD 2	8.3	4.7	6.5	MEMPHIS (GO-DFR)	6.7	3.3	5.0
GTO (BURL TF-2)	8.0	5.0	6.5	NIGHTCRAWLER (IS-TF 285)	7.3	2.7	5.0
RAD-TF-89	7.7	5.3	6.5	STANDOUT (IS-TF 308 SEL)	7.3	2.7	5.0
W41	8.3	4.7	6.5	PST-5BRK	6.7	3.3	5.0
REBOUNDER (PICK-W43)	8.7	4.0	6.3	ANNIHILATOR LEDEBOER	7.0	2.7	4.8
B23	7.7	4.7	6.2	BAR FA 121095	6.7	3.0	4.8
FAITH	7.0	5.3	6.2	TRENDING (IS-TF 269 SEL)	6.7	3.0	4.8
FESNOVA	7.3	5.0	6.2	DIABLO (IS-TF 330)	7.3	2.3	4.8
TITANIUM 2LS (PPG-TF-152)	8.0	4.3	6.2	JS 825	6.3	3.3	4.8
TRAVERSE 2 SRP (W45)	7.3	5.0	6.2	PST-5BPO	6.0	3.7	4.8
HOT ROD (BURL TF-136)	8.0	4.0	6.0	SWAGGER (PST-5R05)	6.7	3.0	4.8
FAYETTE (IS-TF 291)	8.0	4.0	6.0	BAR FA 121089	6.3	3.0	4.7
PARAMOUNT (PPG-TF-137)	7.7	4.3	6.0	FRONTLINE (EXP TF-09)	6.0	3.3	4.7
XTENDER (PPG-TF-139)	8.0	4.0	6.0	MAESTRO (T31)	6.3	3.0	4.7
THOR (PPG-TF-157)	8.0	4.0	6.0	CROSSFIRE 4 (IS-TF 310 SEL)	6.3	2.7	4.5
PST-5EX2	7.3	4.7	6.0	IS-TF-287	7.0	2.0	4.5
SALTILLO (PST-5SALT)	7.7	4.3	6.0	DYNAMITE LS (PPG-TF-145)	7.0	2.0	4.5

TABLE 45. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) AT NORTH BRUNSWICK, NJ 1/
2013 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUL_3	JUL_25	MEAN
MERIDIAN (PST-5GRB)	5.7	3.3	4.5
TEMPTATION (OR-21)	5.3	3.7	4.5
AQUADUCT	5.3	3.3	4.3
INSPIRATION (PST-R5NW)	5.7	3.0	4.3
K12-MCD	6.0	2.7	4.3
MARAUDER	6.3	2.3	4.3
PSG-PO1	6.3	2.3	4.3
BAR FA 120878	5.7	2.7	4.2
JS 809	5.7	2.7	4.2
JS 818	5.3	3.0	4.2
PPG-TF-115	6.3	2.0	4.2
PSG-8BP2	6.3	2.0	4.2
OLYMPUS (RAD-TF-88)	6.3	2.0	4.2
BAR FA 121091	6.3	1.7	4.0
KINGDOM (DB1)	6.0	2.0	4.0
IS-TF 276 M2	6.3	1.3	3.8
COMP. RES. SST	5.3	2.0	3.7
PPG-TF-138	6.0	1.3	3.7
THUNDERSTRUCK (TD1)	5.7	1.7	3.7
204 RES. BLK4	5.0	2.0	3.5
JS 819	5.3	1.3	3.3
RAD-TF-83	5.3	1.3	3.3
IS-TF 272	5.3	1.0	3.2
WARHAWK	5.3	1.0	3.2
K12-05	3.3	1.0	2.2
K12-13	3.0	1.0	2.0
LSD VALUE	3.0	5.0	3.3
C.V. (%)	19.8	54.5	28.5

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 46.

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
AT ADELPHIA, NJ 1/
2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JULY	AUGUST	MEAN	NAME	JULY	AUGUST	MEAN
AVENGER II (PPG-TF-156)	7.0	9.0	8.0	WICHITA (PPG-TF-151)	6.0	5.0	5.5
TECHNIQUE (RZ2)	7.7	7.3	7.5	VERT (ATF 1612)	5.7	5.0	5.3
ROWDY (SRX-TPC)	7.0	7.7	7.3	BLACK TAIL (PPG-TF-150)	5.7	5.0	5.3
MET 1	5.7	8.7	7.2	MICHELANGELO (LTP-F5DPDR)	6.3	4.3	5.3
PARAMOUNT (PPG-TF-137)	6.7	7.3	7.0	REBOUNDER (PICK-W43)	5.7	5.0	5.3
ROCKWELL (LTP-TWUU)	6.7	7.3	7.0	RHAMBLER 2 SRP (LSD)	5.3	5.3	5.3
AMITY (CCR2)	6.3	7.3	6.8	SALTILLO (PST-5SALT)	6.0	4.7	5.3
F711	5.0	8.7	6.8	TERRANO	5.7	5.0	5.3
FAYETTE (IS-TF 291)	5.3	8.3	6.8	VALKYRIE LS (PPG-TF-172)	5.7	5.0	5.3
MAESTRO (T31)	6.0	7.7	6.8	XTENDER (PPG-TF-139)	5.7	5.0	5.3
PST-5EX2	6.0	7.7	6.8	BULLSEYE	4.0	6.3	5.2
TITANIUM 2LS (PPG-TF-152)	7.3	6.3	6.8	EMBRACE (PST-5EV2)	4.3	6.0	5.2
4TH MILLENNIUM SRP (U43)	6.0	7.3	6.7	GRANDE 3	4.3	6.0	5.2
HEMI	6.0	7.3	6.7	INSPIRATION (PST-R5NW)	4.0	6.3	5.2
TRENDING (IS-TF 269 SEL)	5.7	7.7	6.7	RAPTOR III (ZW 44)	6.3	4.0	5.2
REGENERATE	5.7	7.7	6.7	B23	6.0	4.0	5.0
FIRECRACKER SLS (PPG-TF-105)	5.7	7.3	6.5	TRINITY (BIZEM)	5.3	4.7	5.0
MET-3	6.3	6.7	6.5	FIREBIRD 2	5.7	4.3	5.0
PPG-TF-135	6.7	6.3	6.5	HOVER (BURL TF-69)	6.0	4.0	5.0
RHIZING MOON (IS-TF 305 SEL)	5.7	7.3	6.5	IS-TF 276 M2	5.0	5.0	5.0
IS-TF 311	5.3	7.3	6.3	NIGHTCRAWLER (IS-TF 285)	5.0	5.0	5.0
PST-5BRK	5.3	7.3	6.3	PPG-TF-138	5.7	4.3	5.0
UNITUS (IS-TF 289)	5.0	7.7	6.3	RAD-TF-89	6.3	3.7	5.0
FALCON V	5.3	7.0	6.2	ATF 1754	5.0	4.7	4.8
GTO (BURL TF-2)	5.0	7.3	6.2	FESNOVA	4.0	5.7	4.8
K12-MCD	5.3	7.0	6.2	STANDOUT (IS-TF 308 SEL)	5.3	4.3	4.8
FAITH	5.3	6.7	6.0	LEONARDO (LTP-FSD)	5.7	4.0	4.8
HOT ROD (BURL TF-136)	5.3	6.7	6.0	PST-5DZP	4.0	5.7	4.8
PST-5BP0	5.0	7.0	6.0	REBEL V (ATF 1736)	5.0	4.7	4.8
SCREAMER LS (PPG-TF-148)	6.7	5.3	6.0	TRAVERSE 2 SRP (W45)	4.7	5.0	4.8
CATALYST	5.0	6.7	5.8	TURFWAY (IS-TF 282 M2)	4.7	5.0	4.8
JS 916	5.3	6.3	5.8	CAESAR (TY 10)	5.0	4.3	4.7
THOR (PPG-TF-157)	5.7	6.0	5.8	FALCON IV	5.0	4.3	4.7
BLOODHOUND (MET 6 SEL)	6.3	5.0	5.7	FOXHOUND (IS-TF 284 M2)	5.0	4.3	4.7
FIREWALL (PSG-WEL)	5.3	6.0	5.7	HOUNDOG8 (IS-TF 307 SEL)	5.7	3.7	4.7
KY-31	4.3	7.0	5.7	TEMPLE (DZ1)	5.7	3.7	4.7
PPG-TF-115	6.0	5.3	5.7	TEMPTATION (OR-21)	4.7	4.7	4.7
PSG-GSD	5.7	5.7	5.7	DIABLO (IS-TF 330)	5.7	3.3	4.5
SUPERSONIC (PPG-TF-170)	5.7	5.7	5.7	DYNAMITE LS (PPG-TF-145)	4.3	4.7	4.5
W41	5.7	5.7	5.7	RAD-TF-83	5.3	3.7	4.5
ATF 1704	6.0	5.0	5.5	THUNDERSTRUCK (TD1)	5.0	4.0	4.5
IS-TF-287	4.7	6.3	5.5	BAR FA 120878	3.3	5.3	4.3
PSG-PO1	5.7	5.3	5.5	FRONTLINE (EXP TF-09)	3.7	5.0	4.3
PST-5MVD	5.7	5.3	5.5	PPG-TF-169	4.3	4.3	4.3
SWAGGER (PST-5RO5)	4.3	6.7	5.5	PSG-TT4	4.7	4.0	4.3

TABLE 46. BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) AT ADELPHIA, NJ 1/
 2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JULY	AUGUST	MEAN
REFLECTION (U45)	5.0	3.7	4.3
BAR FA 121089	4.7	3.7	4.2
MERIDIAN (PST-5GRB)	4.7	3.7	4.2
JS 818	5.0	3.0	4.0
RAIN DANCE (PST-5SDT)	2.7	5.3	4.0
ARES (PPG-TF-142)	5.3	2.3	3.8
CROSSFIRE 4 (IS-TF 310 SEL)	4.7	3.0	3.8
IS-TF 272	4.0	3.3	3.7
KINGDOM (DB1)	3.3	4.0	3.7
MEMPHIS (GO-DFR)	4.3	3.0	3.7
PSG-8BP2	4.0	3.3	3.7
RAD-TF-92	5.3	2.0	3.7
AQUADUCT	3.0	3.7	3.3
BAR FA 121091	3.3	3.3	3.3
BAR FA 121095	4.3	2.3	3.3
JS 819	4.3	2.3	3.3
K12-05	4.7	2.0	3.3
JS 825	3.3	3.0	3.2
OLYMPUS (RAD-TF-88)	4.3	2.0	3.2
JS 809	3.3	2.7	3.0
K12-13	2.3	3.3	2.8
ANNIHILATOR	1.7	2.7	2.2
COMP. RES. SST	2.0	2.3	2.2
WARHAWK	2.3	1.7	2.0
MARAUDER	2.0	1.7	1.8
204 RES. BLK4	1.0	2.0	1.5
LSD VALUE	2.0	2.7	1.7
C.V. (%)	22.7	31.8	20.7

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 47.

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
 AT RALEIGH, NC 1/
 2014 AND 2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUNE 2014	AUGUST 2014	SEPTEMBER 2014	JULY 2016	AUGUST 2016	MEAN
REGENERATE	8.0	8.7	8.0	7.0	7.3	7.7
BLOODHOUND (MET 6 SEL)	8.3	8.7	8.7	6.7	6.7	7.6
PST-5EX2	7.3	8.0	8.3	6.7	8.0	7.6
F711	8.3	8.0	8.0	7.0	6.7	7.5
HEMI	8.0	8.7	8.7	7.0	6.0	7.5
TRAVERSE 2 SRP (W45)	8.7	8.7	8.7	5.7	6.7	7.4
BLACK TAIL (PPG-TF-150)	7.7	8.3	9.0	6.3	6.0	7.3
RAPTOR III (ZW 44)	8.0	8.7	8.7	6.0	6.0	7.2
IS-TF 311	8.0	8.3	8.0	7.0	5.3	7.1
MET 1	8.3	7.7	8.0	6.3	6.0	7.1
PPG-TF-135	8.3	8.7	8.3	5.7	6.0	7.1
VALKYRIE LS (PPG-TF-172)	8.3	8.0	8.0	6.7	5.3	7.1
XTENDER (PPG-TF-139)	8.3	7.3	7.7	7.0	6.0	7.1
AMITY (CCR2)	7.3	7.7	7.3	6.3	6.7	7.0
GTO (BURL TF-2)	7.3	7.7	8.3	6.3	6.0	7.0
PST-5MVD	9.0	8.3	8.3	6.3	4.7	7.0
ROWDY (SRX-TPC)	8.0	8.3	8.3	6.7	5.0	7.0
STANDOUT (IS-TF 308 SEL)	7.7	8.0	8.0	6.7	5.7	7.0
TECHNIQUE (RZ2)	8.3	8.3	8.3	6.0	5.3	7.0
VERT (ATF 1612)	8.0	8.0	8.0	6.3	5.7	7.0
PSG-PO1	8.3	8.0	7.7	6.0	5.7	6.9
EMBRACE (PST-5EV2)	8.3	8.0	7.7	6.7	4.7	6.8
LEONARDO (LTP-FSD)	8.7	8.7	8.7	5.7	4.3	6.8
PST-5BP0	7.7	8.0	8.3	5.0	6.0	6.8
PST-5BRK	8.3	7.7	7.7	6.0	5.3	6.8
REBOUNDER (PICK-W43)	7.7	7.7	7.7	5.7	6.3	6.8
ROCKWELL (LTP-TWUU)	8.0	8.0	8.3	5.7	5.3	6.8
SALTILLO (PST-5SALT)	7.3	7.7	7.7	5.3	6.7	6.8
THOR (PPG-TF-157)	7.7	7.7	7.7	6.7	5.0	6.8
FALCON V	8.0	7.7	8.0	6.3	4.7	6.7
MICHELANGELO (LTP-F5DPDR)	7.7	7.3	7.7	6.7	5.0	6.7
REFLECTION (U45)	8.0	7.7	8.0	6.0	5.0	6.7
RHIZING MOON (IS-TF 305 SEL)	8.0	8.0	7.7	5.7	5.3	6.7
TEMPLE (DZ1)	9.0	7.7	8.3	6.0	4.0	6.7
4TH MILLENNIUM SRP (U43)	8.3	7.7	7.7	5.3	5.3	6.6
AVENGER II (PPG-TF-156)	7.7	8.0	7.7	5.7	5.3	6.6
B23	8.0	7.3	7.0	6.3	5.0	6.6
CROSSFIRE 4 (IS-TF 310 SEL)	7.0	7.0	7.0	6.0	6.3	6.6
RAIN DANCE (PST-5SDT)	7.7	8.0	8.0	5.3	5.3	6.6
TERRANO	8.7	8.3	8.7	5.3	4.0	6.6
FESNOVA	8.0	7.3	7.3	5.3	5.7	6.5
FIREBIRD 2	7.7	7.0	7.0	6.3	5.3	6.5
JS 916	8.0	8.0	8.3	5.0	4.7	6.5
MET-3	8.0	7.3	7.7	6.0	4.7	6.5
PPG-TF-138	8.3	7.7	8.0	5.7	4.3	6.5

TABLE 47.
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
AT RALEIGH, NC 1/
2014 AND 2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUNE 2014	AUGUST 2014	SEPTEMBER 2014	JULY 2016	AUGUST 2016	MEAN
PPG-TF-169	7.7	7.7	7.0	6.7	4.3	6.5
PSG-TT4	8.3	7.7	8.3	5.0	4.7	6.5
RHAMBLER 2 SRP (LSD)	8.3	8.3	8.0	5.3	4.3	6.5
SCREAMER LS (PPG-TF-148)	8.3	7.7	7.7	6.0	4.3	6.5
TRINITY (BIZEM)	7.3	8.3	8.0	5.7	4.7	6.5
WICHITA (PPG-TF-151)	8.0	8.3	8.3	6.0	3.7	6.5
ATF 1704	8.0	7.7	8.0	5.3	4.3	6.4
ATF 1754	7.3	6.7	7.7	6.0	5.0	6.4
BAR FA 121089	8.7	8.0	7.7	5.0	4.3	6.4
CAESAR (TY 10)	7.3	7.7	7.7	5.7	4.7	6.4
FOXHOUND (IS-TF 284 M2)	8.3	7.7	7.7	5.3	4.3	6.4
HOT ROD (BURL TF-136)	8.0	8.0	7.7	5.3	4.7	6.4
HOUNDOG8 (IS-TF 307 SEL)	9.0	7.7	7.7	5.3	4.0	6.4
HOVER (BURL TF-69)	7.7	7.7	7.3	6.0	4.7	6.4
MEMPHIS (GO-DFR)	7.7	7.7	8.3	5.3	4.3	6.4
PARAMOUNT (PPG-TF-137)	7.3	7.7	7.7	5.7	5.0	6.4
SUPERSONIC (PPG-TF-170)	8.0	7.7	8.0	4.3	5.3	6.4
SWAGGER (PST-5R05)	8.0	8.0	8.0	6.3	3.3	6.4
TURFWAY (IS-TF 282 M2)	8.3	8.3	8.0	5.3	4.0	6.4
DIABLO (IS-TF 330)	8.3	7.7	8.0	4.7	4.7	6.3
FIREWALL (PSG-WE1)	7.7	7.3	7.3	5.0	5.3	6.3
GRANDE 3	7.7	7.7	8.0	4.7	5.0	6.3
MAESTRO (T31)	7.3	7.7	8.0	6.0	4.0	6.3
TITANIUM 2LS (PPG-TF-152)	8.3	7.3	7.0	6.3	3.7	6.3
UNITUS (IS-TF 289)	8.0	7.7	7.7	5.3	4.3	6.3
ARES (PPG-TF-142)	7.7	7.3	7.3	5.7	4.3	6.2
DYNAMITE LS (PPG-TF-145)	8.0	8.0	7.3	5.3	4.0	6.2
IS-TF-287	7.0	7.0	6.7	6.7	4.3	6.2
K12-MCD	7.3	7.3	8.0	5.3	4.3	6.2
TRENDING (IS-TF 269 SEL)	7.7	7.7	7.0	5.7	4.3	6.2
FIRECRACKER SLS (PPG-TF-105)	7.3	7.0	7.0	5.3	4.7	6.1
KY-31	7.3	7.3	8.0	4.7	4.7	6.1
NIGHTCRAWLER (IS-TF 285)	8.0	7.0	7.0	5.3	4.3	6.1
RAD-TF-92	7.7	6.7	7.0	6.0	4.3	6.1
TEMPTATION (OR-21)	7.7	7.3	7.3	4.7	5.0	6.1
W41	7.7	7.7	7.3	5.3	4.0	6.1
AQUADUCT	7.0	6.7	6.7	5.7	4.7	6.0
BULLSEYE	7.7	6.7	6.7	5.3	4.7	6.0
CATALYST	7.7	7.3	6.0	5.3	4.7	6.0
IS-TF 272	8.0	7.0	6.3	5.3	4.3	6.0
RAD-TF-89	8.0	6.7	7.0	5.3	4.3	6.0
BAR FA 120878	7.0	6.7	6.7	5.3	4.7	5.9
FAITH	7.0	7.0	7.0	5.0	4.7	5.9
JS 819	7.7	7.0	6.7	4.7	4.7	5.9
KINGDOM (DB1)	8.0	7.3	7.0	4.7	4.0	5.9

TABLE 47.
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
AT RALEIGH, NC 1/
2014 AND 2016 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUNE 2014	AUGUST 2014	SEPTEMBER 2014	JULY 2016	AUGUST 2016	MEAN
MERIDIAN (PST-5GRB)	7.7	6.7	6.7	5.3	4.0	5.9
RAD-TF-83	7.3	7.0	7.3	4.7	4.3	5.9
REBEL V (ATF 1736)	7.3	7.0	6.3	4.3	5.7	5.9
FALCON IV	7.0	7.0	6.7	5.3	4.0	5.8
JS 809	6.3	6.7	6.3	5.7	4.7	5.8
JS 818	7.0	7.7	7.0	4.7	4.0	5.8
OLYMPUS (RAD-TF-88)	7.0	7.0	7.3	5.0	4.0	5.8
PSG-GSD	7.3	7.0	7.3	5.0	3.7	5.8
PST-5DZP	7.7	7.3	7.3	4.3	4.0	5.8
FAYETTE (IS-TF 291)	7.3	6.7	6.3	5.0	4.3	5.7
JS 825	8.3	7.3	7.0	4.0	3.7	5.7
K12-05	7.0	7.7	7.7	4.3	3.7	5.7
BAR FA 121091	7.3	7.0	6.7	4.3	4.0	5.6
INSPIRATION (PST-R5NW)	7.3	7.0	7.0	5.0	3.3	5.6
IS-TF 276 M2	7.0	7.3	7.0	5.0	3.3	5.6
K12-13	7.3	7.3	7.0	4.3	3.7	5.6
PPG-TF-115	7.7	6.7	7.0	4.3	4.0	5.6
PSG-8BP2	7.3	7.3	7.0	4.3	3.3	5.5
BAR FA 121095	6.3	7.0	6.3	4.7	4.0	5.4
MARAUDER	6.7	6.7	6.3	4.0	4.0	5.3
WARHAWK	7.0	6.3	6.7	4.0	4.0	5.3
ANNIHILATOR	7.0	7.0	6.7	2.7	3.7	5.0
COMP. RES. SST	7.0	6.3	6.0	3.3	3.7	5.0
THUNDERSTRUCK (TD1)	6.7	6.3	5.7	3.7	3.7	4.9
FRONTLINE (EXP TF-09)	7.0	5.7	5.3	3.7	3.3	4.8
204 RES. BLK4	4.0	4.3	3.7	3.7	3.7	3.8
LSD VALUE	2.0	1.8	2.3	2.5	2.6	5.9
C.V. (%)	11.2	11.3	14.0	20.8	25.2	25.3

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 48.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
 AT STILLWATER, OK 1/
 2013-15 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	AUG 13 2013	AUG 29 2013	SEP 10 2013	JUN 6 2014	JUN 13 2014	JUN 23 2014	AUGUST 2014	AUGUST 2015	SEPTEMBER 2015	MEAN
KY-31	7.7	7.0	7.7	7.7	8.0	6.7	3.0	8.0	8.7	7.4
TERRANO	7.7	6.7	7.7	7.7	7.0	6.3	4.7	8.7	6.7	7.1
EMBRACE (PST-5EV2)	6.7	6.3	6.7	7.3	6.7	6.7	6.0	8.7	7.0	7.0
BAR FA 120878	7.7	7.3	7.3	6.3	7.7	6.3	3.0	7.7	6.3	6.8
K12-MCD	8.0	6.7	7.0	7.3	6.7	5.7	4.3	7.0	7.3	6.8
SWAGGER (PST-5R05)	7.3	6.0	6.7	7.3	6.7	6.0	3.3	9.0	6.7	6.8
PST-5BP0	8.0	6.0	6.7	7.0	6.7	6.3	4.0	7.7	6.7	6.7
SALTILLO (PST-5SALT)	8.0	6.3	6.7	7.0	6.0	6.0	3.7	7.7	7.0	6.7
DYNAMITE LS (PPG-TF-145)	7.3	6.7	7.0	7.0	6.3	6.3	3.3	7.0	7.3	6.6
LEONARDO (LTP-FSD)	8.0	5.7	5.3	7.3	7.3	6.3	3.3	8.0	7.0	6.6
RHAMBLER 2 SRP (LSD)	7.3	5.3	6.0	7.3	7.3	6.0	5.3	7.3	6.7	6.6
THOR (PPG-TF-157)	7.3	5.7	6.3	7.0	5.7	6.0	4.3	8.3	7.0	6.6
AQUADUCT	7.3	6.3	7.3	6.3	6.3	5.7	3.0	8.0	6.3	6.5
F711	6.3	5.3	5.3	7.0	7.0	6.3	4.7	7.7	7.3	6.5
MERIDIAN (PST-5GRB)	7.0	6.3	6.7	7.3	6.0	6.0	4.3	7.7	6.0	6.5
PPG-TF-115	7.3	6.7	6.7	7.0	6.0	6.3	3.3	7.3	6.7	6.5
PSG-8BP2	6.0	6.7	7.7	6.3	5.7	6.3	5.0	8.3	5.3	6.5
PSG-GSD	7.0	5.7	6.0	7.3	7.0	6.3	3.0	8.0	6.7	6.5
RAIN DANCE (PST-5SDT)	8.0	6.7	7.0	7.7	6.0	6.3	3.7	6.3	6.3	6.5
ROWDY (SRX-TPC)	7.3	5.7	6.3	6.7	6.7	6.7	5.3	7.3	6.3	6.5
TURFWAY (IS-TF 282 M2)	8.0	6.0	6.7	7.3	6.0	5.7	4.7	7.3	6.3	6.5
FRONTLINE (EXP TF-09)	7.7	6.3	6.3	6.7	7.0	6.0	4.3	7.3	5.7	6.4
GTO (BURL TF-2)	6.7	5.3	5.3	6.7	6.0	6.0	3.3	8.7	7.3	6.4
IS-TF 311	7.0	6.3	6.7	6.7	5.7	6.0	4.7	8.3	5.0	6.4
TEMPTATION (OR-21)	7.3	6.3	6.3	6.7	6.3	6.3	4.0	7.7	5.7	6.4
BAR FA 121089	7.7	7.0	7.7	6.7	6.3	6.0	3.3	6.7	5.0	6.3
FALCON IV	6.7	5.3	6.3	7.0	6.3	6.3	3.3	8.0	6.3	6.3
FAYETTE (IS-TF 291)	6.0	5.0	4.3	7.0	6.7	6.0	3.7	8.7	7.0	6.3
FESNOVA	6.0	5.0	6.0	7.7	7.3	6.7	3.7	7.7	6.0	6.3
MET 1	6.7	5.0	5.3	6.7	7.3	6.3	4.7	8.7	5.3	6.3
MICHELANGELO (LTP-F5DPDR)	6.7	5.7	5.7	7.0	7.3	6.0	3.0	8.0	6.0	6.3
NIGHTCRAWLER (IS-TF 285)	7.7	6.0	5.3	6.3	6.3	6.3	3.7	7.3	6.3	6.3
WICHITA (PPG-TF-151)	6.0	6.0	7.0	7.3	6.0	5.7	3.3	7.3	6.3	6.3
AVENGER II (PPG-TF-156)	5.7	4.0	4.3	6.7	7.0	6.0	4.3	8.7	7.0	6.2
INSPIRATION (PST-R5NW)	6.7	6.7	7.0	6.7	6.7	6.7	3.7	7.7	4.0	6.2
MAESTRO (T31)	6.0	5.0	5.0	6.7	6.7	6.3	4.3	7.7	6.7	6.2
MEMPHIS (GO-DFR)	7.3	6.0	6.3	6.7	7.0	5.7	3.3	8.0	4.7	6.2
PPG-TF-138	7.3	6.0	6.3	6.7	5.3	5.7	4.0	7.3	5.7	6.2
PST-5DZP	7.3	6.7	6.7	6.3	6.3	6.0	3.3	7.3	5.3	6.2
PST-5EX2	7.0	6.0	6.3	7.0	6.0	6.0	5.3	7.0	5.3	6.2
RHIZING MOON (IS-TF 305 SEL)	7.0	6.0	6.7	6.3	6.0	6.3	4.0	7.3	5.7	6.2
SUPERSONIC (PPG-TF-170)	6.7	5.0	4.3	5.7	5.7	5.7	3.7	8.7	7.3	6.2
VALKYRIE LS (PPG-TF-172)	6.3	5.3	6.0	7.0	7.0	6.0	4.7	6.7	6.3	6.2
ATF 1704	6.7	5.7	6.0	7.0	6.0	6.0	3.3	6.7	6.3	6.1
CAESAR (TY 10)	6.3	6.0	6.7	6.7	6.7	6.0	3.0	7.3	5.3	6.1

TABLE 48.
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
AT STILLWATER, OK 1/
2013-15 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	AUG_13 2013	AUG_29 2013	SEP_10 2013	JUN_6 2014	JUN_13 2014	JUN_23 2014	AUGUST 2014	AUGUST 2015	SEPTEMBER 2015	MEAN
CROSSFIRE 4 (IS-TF 310 SEL)	6.0	5.3	6.0	6.7	6.3	5.7	3.7	7.0	6.7	6.1
FOXHOUND (IS-TF 284 M2)	7.0	6.0	6.7	7.3	6.3	5.7	4.7	7.0	4.7	6.1
GRANDE 3	6.0	4.7	5.7	7.0	6.0	6.3	3.3	8.3	6.0	6.1
JS 916	6.3	5.3	6.3	7.0	6.3	6.0	4.0	7.3	5.3	6.1
PARAMOUNT (PPG-TF-137)	6.0	5.0	4.3	6.3	6.3	5.7	3.3	8.3	7.0	6.1
PST-5BRK	6.7	6.0	6.3	7.3	6.0	6.0	3.3	7.0	5.7	6.1
REBOUNDER (PICK-W43)	6.3	5.7	6.0	7.3	6.3	6.0	3.0	7.7	5.7	6.1
ROCKWELL (LTP-TWUU)	6.0	5.0	6.0	7.0	6.3	6.0	2.7	7.0	7.3	6.1
STANDOUT (IS-TF 308 SEL)	5.7	5.0	5.3	6.0	6.0	6.0	4.0	8.0	7.0	6.1
TITANIUM 2LS (PPG-TF-152)	6.3	6.0	6.0	7.3	6.7	6.3	3.7	7.3	5.0	6.1
TRINITY (BIZEM)	7.3	5.3	6.7	7.0	6.3	6.0	4.3	7.3	4.3	6.1
UNITUS (IS-TF 289)	7.0	5.7	6.0	6.7	6.3	6.3	3.3	7.7	5.0	6.1
W41	7.0	5.7	6.7	6.7	6.3	5.7	4.3	7.0	5.0	6.1
BAR FA 121095	5.7	5.7	7.3	6.7	6.7	6.0	3.0	7.0	5.3	6.0
FIRECRACKER SLS (PPG-TF-105)	6.7	5.0	5.0	7.0	6.7	6.7	3.3	7.3	6.0	6.0
HOUNDOG8 (IS-TF 307 SEL)	7.0	5.3	6.3	7.0	6.3	6.0	5.0	6.7	5.0	6.0
IS-TF 276 M2	7.7	6.0	6.3	6.7	5.7	5.7	3.0	7.0	5.3	6.0
JS 825	7.0	6.0	7.0	6.0	6.7	5.0	2.7	8.0	4.7	6.0
TEMPLE (DZ1)	6.7	5.0	5.0	6.7	6.0	6.3	4.0	7.3	6.0	6.0
AMITY (CCR2)	7.0	6.0	6.3	6.3	4.3	5.7	3.3	7.0	5.7	5.9
ARES (PPG-TF-142)	7.3	5.7	5.7	6.3	7.3	6.7	4.0	6.0	5.0	5.9
FAITH	6.7	5.0	5.7	7.0	7.3	6.0	3.3	7.3	4.7	5.9
FALCON V	6.3	5.0	5.0	6.7	7.0	6.3	3.3	7.7	5.0	5.9
FIREBIRD 2	6.3	4.3	5.0	6.7	6.3	6.0	4.3	7.3	5.7	5.9
IS-TF-287	5.7	4.7	5.3	7.0	5.3	5.3	4.0	8.3	5.7	5.9
JS 818	6.7	5.0	5.3	7.0	6.7	6.0	4.0	7.7	4.7	5.9
JS 819	6.7	5.0	4.7	6.3	7.0	6.3	3.7	7.3	5.7	5.9
K12-05	5.7	5.7	6.3	6.3	5.7	5.0	3.3	7.3	6.0	5.9
PSG-TT4	6.0	6.3	6.7	5.7	5.7	5.7	3.7	6.7	5.7	5.9
TECHNIQUE (RZ2)	6.3	5.0	6.0	6.7	5.7	5.7	4.3	7.0	5.7	5.9
TRAVERSE 2 SRP (W45)	5.7	4.7	5.7	6.3	6.0	5.7	4.3	8.0	5.3	5.9
XTENDER (PPG-TF-139)	6.7	6.0	5.7	6.3	6.3	6.0	4.7	6.3	5.3	5.9
4TH MILLENNIUM SRP (U43)	4.3	3.7	4.3	7.0	7.0	6.0	4.0	8.0	6.3	5.8
JS 809	6.3	5.3	5.3	6.7	6.7	5.7	3.7	7.3	5.0	5.8
MET-3	5.3	6.0	6.0	6.3	5.7	5.7	3.0	6.7	6.0	5.8
REGENERATE	4.7	4.3	4.0	6.3	6.7	6.3	4.3	7.7	6.3	5.8
THUNDERSTRUCK (TD1)	4.7	5.7	6.3	6.3	6.3	5.7	2.7	8.0	5.3	5.8
WARHAWK	6.3	4.7	6.0	5.3	6.3	6.3	3.7	8.3	4.3	5.8
BAR FA 121091	5.7	6.0	6.7	6.7	6.3	6.0	3.3	6.0	5.0	5.7
BLACK TAIL (PPG-TF-150)	6.0	5.3	5.7	6.7	6.3	6.0	4.3	6.7	4.7	5.7
DIABLO (IS-TF 330)	6.7	5.3	6.0	7.0	5.7	6.0	3.7	6.3	4.7	5.7
RAPTOR III (ZW 44)	5.0	4.7	5.0	7.0	6.3	5.3	3.3	7.7	6.0	5.7
REBEL V (ATF 1736)	5.7	4.3	4.7	7.0	5.7	6.0	3.7	7.0	6.0	5.7
REFLECTION (U45)	5.3	5.0	5.3	7.0	6.3	6.0	4.0	6.7	5.7	5.7
PPG-TF-135	4.7	4.3	4.0	6.7	6.7	6.0	3.7	7.7	5.7	5.6

TABLE 48.
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
AT STILLWATER, OK 1/
2013-15 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	AUG_13 2013	AUG_29 2013	SEP_10 2013	JUN_6 2014	JUN_13 2014	JUN_23 2014	AUGUST 2014	AUGUST 2015	SEPTEMBER 2015	MEAN
PPG-TF-169	5.7	4.7	4.7	6.7	6.0	5.7	4.0	7.3	5.0	5.6
SCREAMER LS (PPG-TF-148)	5.0	4.0	4.3	6.3	6.7	6.0	4.3	7.7	5.7	5.6
CATALYST	4.0	3.7	3.7	6.7	6.3	6.0	3.3	7.7	6.7	5.5
FIREWALL (PSG-WE1)	5.0	4.3	5.0	6.3	6.7	6.0	3.3	7.0	5.0	5.5
HEMI	5.0	4.0	4.3	6.3	6.3	6.0	3.7	7.3	5.7	5.5
HOT ROD (BURL TF-136)	6.0	4.3	4.3	6.3	6.7	5.3	4.7	6.0	5.7	5.5
IS-TF 272	5.0	5.3	5.7	6.3	5.3	5.7	4.0	6.7	5.0	5.5
PST-5MVD	5.3	5.0	5.0	7.3	6.7	6.0	3.7	6.0	5.0	5.5
B23	5.7	4.3	4.0	6.3	6.3	6.0	4.0	7.0	5.0	5.4
BULLSEYE	5.0	4.3	4.3	7.3	6.7	6.3	4.0	7.0	4.0	5.4
PSG-PO1	4.7	3.7	4.7	7.0	6.0	6.0	3.7	7.7	5.0	5.4
TRENDING (IS-TF 269 SEL)	6.3	5.0	6.0	6.7	5.7	5.7	4.0	5.3	4.3	5.4
VERT (ATF 1612)	5.7	5.3	5.7	7.0	5.3	5.0	3.0	6.3	5.0	5.4
ATF 1754	5.7	4.7	4.7	6.7	6.3	6.0	2.7	6.0	5.0	5.3
K12-13	3.7	5.3	5.7	5.7	6.0	6.0	2.7	7.0	4.7	5.3
KINGDOM (DB1)	4.0	4.7	5.0	6.3	7.0	6.0	3.0	7.0	4.3	5.3
BLOODHOUND (MET 6 SEL)	5.7	4.3	4.3	6.7	6.3	5.7	3.7	6.0	4.7	5.2
RAD-TF-92	4.3	2.7	4.3	5.3	5.7	5.3	1.7	7.7	3.3	4.6
ANNIHILATOR	4.3	3.0	2.3	5.3	6.3	6.0	2.7	7.3	3.3	4.5
RAD-TF-89	3.3	2.7	2.3	6.0	5.7	5.0	3.0	7.0	4.7	4.5
204 RES. BLK4	3.3	2.3	2.3	5.3	6.0	5.7	2.0	7.0	4.7	4.4
COMP. RES. SST	4.0	3.7	2.0	4.0	5.3	5.0	1.3	7.7	4.3	4.4
HOVER (BURL TF-69)	3.7	3.0	3.3	6.3	6.0	6.0	3.0	5.7	3.3	4.4
MARAUDER	3.3	2.3	2.3	4.7	6.3	5.7	1.7	7.7	3.7	4.3
RAD-TF-83	3.7	3.3	3.7	6.0	6.0	5.3	2.0	5.3	3.3	4.2
OLYMPUS (RAD-TF-88)	2.3	2.3	2.0	5.7	5.7	5.0	2.0	6.7	3.7	4.0
LSD VALUE	1.9	1.2	1.6	1.6	2.2	1.2	2.1	2.2	2.6	0.9
C.V. (%)	18.3	15.0	18.0	11.2	13.0	8.7	27.1	13.3	22.3	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.

TABLE 49.

PERCENT WINTER DAMAGE (FEBRUARY) OF TALL FESCUE CULTIVARS 1/
2015 DATA 2/

NAME	NC1	NAME	NC1
K12-13	40.0	TERRANO	25.0
BAR FA 121095	36.7	BULLSEYE	23.3
OLYMPUS (RAD-TF-88)	36.7	CROSSFIRE 4 (IS-TF 310 SEL)	23.3
FOXHOUND (IS-TF 284 M2)	35.0	DYNAMITE LS (PPG-TF-145)	23.3
JS 818	35.0	TRENDING (IS-TF 269 SEL)	23.3
IS-TF 272	33.3	PSG-TT4	23.3
ARES (PPG-TF-142)	31.7	RAD-TF-83	23.3
JS 809	31.7	THOR (PPG-TF-157)	23.3
JS 819	31.7	W41	23.3
JS 825	31.7	WARHAWK	23.3
PPG-TF-115	31.7	CAESAR (TY 10)	21.7
PSG-8BP2	31.7	FAITH	21.7
INSPIRATION (PST-R5NW)	30.0	FAYETTE (IS-TF 291)	21.7
PST-5DZP	30.0	FIREBIRD 2	21.7
RHIZING MOON (IS-TF 305 SEL)	30.0	GRANDE 3	21.7
SUPERSONIC (PPG-TF-170)	28.3	HEMI	21.7
IS-TF-287	28.3	JS 916	21.7
K12-05	28.3	MERIDIAN (PST-5GRB)	21.7
NIGHTCRAWLER (IS-TF 285)	28.3	PARAMOUNT (PPG-TF-137)	21.7
RHAMBLER 2 SRP (LSD)	28.3	PPG-TF-135	21.7
UNITUS (IS-TF 289)	28.3	RAD-TF-89	21.7
ANNIHILATOR	26.7	REBOUNDER (PICK-W43)	21.7
B23	26.7	SALTILLO (PST-5SALT)	21.7
BAR FA 121089	26.7	TEMPLE (DZ1)	21.7
EMBRACE (PST-5EV2)	26.7	TRAVERSE 2 SRP (W45)	21.7
HOUNDOGS (IS-TF 307 SEL)	26.7	WICHITA (PPG-TF-151)	21.7
HOVER (BURL TF-69)	26.7	XTENDER (PPG-TF-139)	21.7
K12-MCD	26.7	VERT (ATF 1612)	20.0
MEMPHIS (GO-DFR)	26.7	DIABLO (IS-TF 330)	20.0
PSG-GSD	26.7	FESNOVA	20.0
SWAGGER (PST-5RO5)	26.7	LEONARDO (LTP-FSD)	20.0
TEMPTATION (OR-21)	26.7	MET 1	20.0
TURFWAY (IS-TF 282 M2)	26.7	MICHELANGELO (LTP-F5DPDR)	20.0
REBEL V (ATF 1736)	25.0	PST-5MVD	20.0
BAR FA 121091	25.0	RAIN DANCE (PST-5SDT)	20.0
IS-TF 276 M2	25.0	REFLECTION (U45)	20.0
KY-31	25.0	ROWDY (SRX-TPC)	20.0
MARAUDER	25.0	SCREAMER LS (PPG-TF-148)	20.0
PPG-TF-138	25.0	ATF 1754	18.3
PST-5BPO	25.0	TRINITY (BIZEM)	18.3
PST-5BRK	25.0	COMP. RES. SST	18.3
RAD-TF-92	25.0	FIRECRACKER SLS (PPG-TF-105)	18.3
RAPTOR III (ZW 44)	25.0	FIREWALL (PSG-WE1)	18.3
		HOT ROD (BURL TF-136)	18.3

TABLE 49. PERCENT WINTER DAMAGE (FEBRUARY) OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2015 DATA 2/

NAME	NC1
STANDOUT (IS-TF 308 SEL)	18.3
IS-TF 311	18.3
MAESTRO (T31)	18.3
AQUADUCT	16.7
AVENGER II (PPG-TF-156)	16.7
BAR FA 120878	16.7
BLACK TAIL (PPG-TF-150)	16.7
FALCON IV	16.7
FALCON V	16.7
FRONTLINE (EXP TF-09)	16.7
KINGDOM (DB1)	16.7
VALKYRIE LS (PPG-TF-172)	16.7
PSG-PO1	16.7
PST-5EX2	16.7
THUNDERSTRUCK (TD1)	16.7
TITANIUM 2LS (PPG-TF-152)	16.7
204 RES. BLK4	15.0
AMITY (CCR2)	15.0
PPG-TF-169	15.0
4TH MILLENNIUM SRP (U43)	13.3
ATF 1704	13.3
BLOODHOUND (MET 6 SEL)	13.3
CATALYST	13.3
GTO (BURL TF-2)	13.3
REGENERATE	13.3
ROCKWELL (LTP-TWUU)	13.3
MET-3	11.7
TECHNIQUE (RZ2)	11.7
F711	10.0
LSD VALUE	14.2
C.V. (%)	39.1

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 50. PERCENT PYTHIUM RATINGS OF TALL FESCUE CULTIVARS
 AT KNOXVILLE, TN 1/
 2015 DATA 2/

NAME	JUNE	JULY 15	JULY 29	AUGUST	MEAN
REBOUNDER (PICK-W43)	3.3	18.3	17.7	14.7	13.5
RAD-TF-89	1.7	7.7	20.7	17.7	11.9
PST-5MVD	4.0	8.3	19.0	16.0	11.8
REGENERATE	5.0	7.0	19.0	16.0	11.8
TURFWAY (IS-TF 282 M2)	3.3	10.0	16.7	13.7	10.9
HOUNDOG8 (IS-TF 307 SEL)	9.0	10.7	13.3	10.3	10.8
MAESTRO (T31)	4.0	9.0	16.7	13.7	10.8
PARAMOUNT (PPG-TF-137)	0.0	6.3	19.0	16.0	10.3
ARES (PPG-TF-142)	0.0	0.0	21.7	18.7	10.1
TECHNIQUE (RZ2)	2.7	3.3	18.3	15.3	9.9
HOT ROD (BURL TF-136)	2.0	7.3	16.3	13.3	9.8
RAD-TF-92	1.7	6.7	16.7	13.7	9.7
CAESAR (TY 10)	3.3	4.0	17.0	14.0	9.6
PST-5BPO	3.3	7.3	15.0	12.0	9.4
BLACK TAIL (PPG-TF-150)	6.7	3.3	15.0	12.0	9.3
PSG-PO1	0.0	3.3	18.3	15.3	9.3
HOVER (BURL TF-69)	0.0	5.7	16.7	13.7	9.0
PPG-TF-135	2.7	1.7	17.3	14.3	9.0
RAD-TF-83	0.0	5.3	16.7	13.7	8.9
ATF 1704	0.0	7.7	15.3	12.3	8.8
KINGDOM (DB1)	0.0	1.7	18.3	15.3	8.8
AMITY (CCR2)	3.3	6.0	14.0	11.0	8.6
STANDOUT (IS-TF 308 SEL)	0.0	4.0	16.7	13.7	8.6
OLYMPUS (RAD-TF-88)	0.0	7.0	14.7	11.7	8.3
THOR (PPG-TF-157)	0.0	7.0	14.7	11.7	8.3
PPG-TF-169	0.0	6.7	14.0	11.0	7.9
BLOODHOUND (MET 6 SEL)	0.0	3.0	15.7	12.7	7.8
FIREWALL (PSG-WE1)	0.0	4.3	14.3	11.3	7.5
PST-5DZP	0.0	3.0	15.0	12.0	7.5
ATF 1754	0.0	4.7	14.0	11.0	7.4
IS-TF 272	0.0	3.3	14.7	11.7	7.4
MICHELANGELO (LTP-F5DPDR)	0.0	6.0	13.3	10.3	7.4
RAIN DANCE (PST-5SDT)	0.0	3.7	14.3	11.3	7.3
VALKYRIE LS (PPG-TF-172)	2.7	4.3	12.3	9.3	7.2
SCREAMER LS (PPG-TF-148)	0.0	1.7	15.0	12.0	7.2
COMP. RES. SST	0.0	0.0	15.7	12.7	7.1
MEMPHIS (GO-DFR)	0.0	3.3	14.0	11.0	7.1
BAR FA 121089	1.7	2.7	13.3	10.3	7.0
HEMI	0.0	2.0	14.3	11.3	6.9
TRENDING (IS-TF 269 SEL)	0.0	2.7	14.0	11.0	6.9
IS-TF 311	0.0	4.3	13.0	10.0	6.8
UNITUS (IS-TF 289)	0.0	0.0	15.0	12.0	6.8
CROSSFIRE 4 (IS-TF 310 SEL)	0.0	1.7	14.0	11.0	6.7
SALTILLO (PST-5SALT)	0.0	4.3	12.7	9.7	6.7
IS-TF 276 M2	1.7	5.7	11.0	8.0	6.6
W41	2.0	4.0	11.7	8.7	6.6
ANNIHILATOR	0.0	7.7	10.7	7.7	6.5

TABLE 50. PERCENT PYTHIUM RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) AT KNOXVILLE, TN 1/
 2015 DATA 2/

NAME	JUNE	JULY 15	JULY 29	AUGUST	MEAN
BAR FA 121095	0.0	6.7	11.0	8.0	6.4
IS-TF-287	0.0	2.0	13.3	10.3	6.4
MET 1	0.0	0.0	14.3	11.3	6.4
B23	0.0	1.7	13.3	10.3	6.3
NIGHTCRAWLER (IS-TF 285)	0.0	1.7	13.3	10.3	6.3
AVENGER II (PPG-TF-156)	0.0	3.3	12.0	9.0	6.1
PPG-TF-138	0.0	2.0	12.7	9.7	6.1
RHIZING MOON (IS-TF 305 SEL)	0.0	1.7	12.7	9.7	6.0
CATALYST	0.0	0.0	13.3	10.3	5.9
EMBRACE (PST-5EV2)	0.0	3.3	11.7	8.7	5.9
REFLECTION (U45)	0.0	0.0	13.3	10.3	5.9
TEMPTATION (OR-21)	0.0	0.0	13.3	10.3	5.9
REBEL V (ATF 1736)	0.0	0.0	13.0	10.0	5.8
FALCON V	0.0	0.0	13.0	10.0	5.8
JS 825	0.0	7.7	9.3	6.3	5.8
WICHITA (PPG-TF-151)	0.0	1.7	12.0	9.0	5.7
PSG-TT4	0.0	4.0	10.7	7.7	5.6
TRINITY (BIZEM)	0.0	3.0	11.0	8.0	5.5
ROCKWELL (LTP-TWUU)	0.0	1.7	11.7	8.7	5.5
DYNAMITE LS (PPG-TF-145)	0.0	8.0	8.0	5.0	5.3
PPG-TF-115	0.0	1.7	11.3	8.3	5.3
K12-MCD	2.7	1.7	9.7	6.7	5.2
VERT (ATF 1612)	0.0	0.0	11.7	8.7	5.1
FALCON IV	0.0	2.0	10.7	7.7	5.1
GRANDE 3	0.0	0.0	11.7	8.7	5.1
MARAUDER	0.0	0.0	11.7	8.7	5.1
TRAVERSE 2 SRP (W45)	0.0	0.0	11.7	8.7	5.1
BULLSEYE	0.0	1.7	10.7	7.7	5.0
FIREBIRD 2	0.0	0.0	11.3	8.3	4.9
JS 819	0.0	0.0	11.3	8.3	4.9
RAPTOR III (ZW 44)	0.0	0.0	11.3	8.3	4.9
BAR FA 120878	0.0	2.0	10.0	7.0	4.8
FAITH	0.0	2.0	10.0	7.0	4.8
K12-05	0.0	7.3	7.3	4.3	4.8
MERIDIAN (PST-5GRB)	0.0	0.0	11.0	8.0	4.8
ROWDY (SRX-TPC)	0.0	4.0	9.0	6.0	4.8
204 RES. BLK4	0.0	1.7	10.0	7.0	4.7
GTO (BURL TF-2)	0.0	0.0	10.7	7.7	4.6
TITANIUM 2LS (PPG-TF-152)	0.0	0.0	10.7	7.7	4.6
THUNDERSTRUCK (TD1)	0.0	1.7	9.7	6.7	4.5
MET-3	0.0	0.0	10.3	7.3	4.4
FAYETTE (IS-TF 291)	0.0	0.0	10.0	7.0	4.3
FESNOVA	0.0	0.0	10.0	7.0	4.3
FRONTLINE (EXP TF-09)	0.0	0.0	10.0	7.0	4.3
K12-13	0.0	0.0	10.0	7.0	4.3
XTENDER (PPG-TF-139)	0.0	1.7	9.3	6.3	4.3
SUPERSONIC (PPG-TF-170)	0.0	0.0	9.3	6.3	3.9

TABLE 50. PERCENT PYTHIUM RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) AT KNOXVILLE, TN 1/
 2015 DATA 2/

NAME	JUNE	JULY 15	JULY 29	AUGUST	MEAN
FIRECRACKER SLS (PPG-TF-105)	0.0	0.0	9.3	6.3	3.9
FOXHOUND (IS-TF 284 M2)	0.0	4.0	7.3	4.3	3.9
JS 818	0.0	0.0	9.3	6.3	3.9
JS 916	0.0	2.0	8.3	5.3	3.9
JS 809	0.0	2.3	8.0	5.0	3.8
TEMPLE (DZ1)	0.0	1.7	8.3	5.3	3.8
TERRANO	0.0	0.0	9.0	6.0	3.8
4TH MILLENNIUM SRP (U43)	0.0	0.0	8.7	5.7	3.6
F711	0.0	0.0	8.7	5.7	3.6
PSG-GSD	0.0	0.0	8.7	5.7	3.6
SWAGGER (PST-5RO5)	0.0	0.0	8.7	5.7	3.6
WARHAWK	0.0	0.0	8.7	5.7	3.6
INSPIRATION (PST-R5NW)	0.0	0.0	8.3	5.3	3.4
PST-5BRK	0.0	0.0	8.3	5.3	3.4
DIABLO (IS-TF 330)	0.0	0.0	8.0	5.0	3.3
LEONARDO (LTP-FSD)	0.0	0.0	8.0	5.0	3.3
AQUADUCT	0.0	0.0	7.7	4.7	3.1
PST-5EX2	0.0	0.0	7.7	4.7	3.1
BAR FA 121091	0.0	0.0	7.3	4.3	2.9
RHAMBLER 2 SRP (LSD)	0.0	0.0	6.0	3.0	2.3
KY-31	0.0	0.0	5.7	2.7	2.1
PSG-8BP2	0.0	0.0	5.0	2.0	1.8
LSD VALUE	6.6	9.5	9.6	9.6	7.1
C.V. (%)	383.6	150.9	36.0	47.6	50.8

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 51.

GRAY LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS
AT RALEIGH, NC 1/
2017 DATA

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

NAME	AUGUST	OCTOBER	MEAN	NAME	AUGUST	OCTOBER	MEAN
MERIDIAN (PST-5GRB)	9.0	5.5	7.8	PSG-PO1	9.0	4.3	6.7
VALKYRIE LS (PPG-TF-172)	8.3	6.5	7.8	REBOUNDER (PICK-W43)	9.0	4.3	6.7
AQUADUCT	8.3	3.0	7.7	RHAMBLER 2 SRP (LSD)	9.0	4.3	6.7
K12-05	9.0	5.0	7.7	THOR (PPG-TF-157)	8.3	5.0	6.7
DIABLO (IS-TF 330)	9.0	6.0	7.5	THUNDERSTRUCK (TD1)	9.0	4.3	6.7
DYNAMITE LS (PPG-TF-145)	9.0	4.5	7.5	4TH MILLENNIUM SRP (U43)	9.0	4.0	6.5
FRONTLINE (EXP TF-09)	9.0	4.5	7.5	ATF 1754	9.0	4.0	6.5
TURFWAY (IS-TF 282 M2)	9.0	6.0	7.5	AVENGER II (PPG-TF-156)	9.0	4.0	6.5
WICHITA (PPG-TF-151)	9.0	6.0	7.5	B23	9.0	4.0	6.5
BAR FA 120878	9.0	4.0	7.3	BAR FA 121091	9.0	4.0	6.5
ATF 1704	9.0	5.3	7.2	BLOODHOUND (MET 6 SEL)	9.0	4.0	6.5
FALCON IV	9.0	3.5	7.2	EMBRACE (PST-5EV2)	9.0	4.0	6.5
MET-3	9.0	3.5	7.2	F711	9.0	4.0	6.5
PPG-TF-135	9.0	3.5	7.2	FAYETTE (IS-TF 291)	8.3	4.7	6.5
PST-5EX2	9.0	5.3	7.2	HEMI	9.0	4.0	6.5
REBEL V (ATF 1736)	9.0	5.3	7.2	IS-TF 272	9.0	4.0	6.5
TEMPTATION (OR-21)	9.0	5.3	7.2	IS-TF 276 M2	7.7	5.3	6.5
TRINITY (BIZEM)	9.0	5.3	7.2	IS-TF-287	7.7	3.5	6.5
UNITUS (IS-TF 289)	9.0	3.5	7.2	KINGDOM (DB1)	9.0	4.0	6.5
BULLSEYE	9.0	5.0	7.0	MEMPHIS (GO-DFR)	7.7	3.5	6.5
GTO (BURL TF-2)	8.3	4.0	7.0	PPG-TF-169	9.0	4.0	6.5
PPG-TF-138	9.0	5.0	7.0	TITANIUM 2LS (PPG-TF-152)	9.0	4.0	6.5
SUPERSONIC (PPG-TF-170)	9.0	5.0	7.0	TRENDING (IS-TF 269 SEL)	8.3	4.7	6.5
TERRANO	8.3	5.7	7.0	BAR FA 121089	9.0	3.7	6.3
FOXHOUND (IS-TF 284 M2)	8.3	5.3	6.8	CAESAR (TY 10)	7.7	5.0	6.3
GRANDE 3	9.0	4.7	6.8	FALCON V	9.0	3.7	6.3
MAESTRO (T31)	9.0	4.7	6.8	JS 916	9.0	3.7	6.3
PSG-GSD	9.0	4.7	6.8	K12-MCD	9.0	3.7	6.3
PSG-TT4	9.0	2.5	6.8	KY-31	8.3	4.3	6.3
PST-5BRK	9.0	4.7	6.8	MET 1	8.3	4.3	6.3
PST-5DZP	8.3	5.3	6.8	MICHELANGELO (LTP-F5DPDR)	9.0	3.7	6.3
RAD-TF-92	9.0	2.5	6.8	PPG-TF-115	9.0	3.7	6.3
REFLECTION (U45)	9.0	4.7	6.8	PST-5BP0	8.3	4.3	6.3
REGENERATE	9.0	4.7	6.8	RAPTOR III (ZW 44)	9.0	3.7	6.3
ROWDY (SRX-TPC)	9.0	4.7	6.8	SALTILLO (PST-5SALT)	8.3	4.3	6.3
SWAGGER (PST-5R05)	8.3	5.3	6.8	AMITY (CCR2)	9.0	3.3	6.2
VERT (ATF 1612)	9.0	4.7	6.8	ANNIHILATOR	9.0	3.3	6.2
XTENDER (PPG-TF-139)	9.0	4.7	6.8	BAR FA 121095	9.0	3.3	6.2
ARES (PPG-TF-142)	8.3	3.0	6.7	BLACK TAIL (PPG-TF-150)	9.0	3.3	6.2
CATALYST	8.3	3.0	6.7	FIRECRACKER SLS (PPG-TF-105)	9.0	3.3	6.2
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	4.3	6.7	HOT ROD (BURL TF-136)	9.0	3.3	6.2
FAITH	9.0	4.3	6.7	IS-TF 311	7.7	4.7	6.2
FESNOVA	9.0	4.3	6.7	JS 819	9.0	3.3	6.2
INSPIRATION (PST-R5NW)	9.0	4.3	6.7	JS 825	9.0	3.3	6.2
MARAUDER	8.3	3.0	6.7	NIGHTCRAWLER (IS-TF 285)	8.3	4.0	6.2

TABLE 51. GRAY LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) AT RALEIGH, NC 1/
2017 DATA

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

NAME	AUGUST	OCTOBER	MEAN
OLYMPUS (RAD-TF-88)	9.0	3.3	6.2
PST-5MVD	8.3	4.0	6.2
RAIN DANCE (PST-5SDT)	8.3	4.0	6.2
RHIZING MOON (IS-TF 305 SEL)	8.3	4.0	6.2
SCREAMER LS (PPG-TF-148)	9.0	3.3	6.2
TECHNIQUE (RZ2)	9.0	3.3	6.2
W41	7.3	5.0	6.2
FIREBIRD 2	8.3	3.7	6.0
HOUNDOG8 (IS-TF 307 SEL)	9.0	3.0	6.0
JS 818	7.3	4.7	6.0
LEONARDO (LTP-FSD)	8.3	3.7	6.0
PARAMOUNT (PPG-TF-137)	8.3	3.7	6.0
TRAVERSE 2 SRP (W45)	7.0	5.0	6.0
JS 809	7.7	4.0	5.8
K12-13	6.7	5.0	5.8
RAD-TF-83	8.3	3.3	5.8
ROCKWELL (LTP-TWUU)	8.3	3.3	5.8
STANDOUT (IS-TF 308 SEL)	7.7	4.0	5.8
TEMPLE (DZ1)	8.3	3.3	5.8
FIREWALL (PSG-WE1)	8.3	3.0	5.7
HOVER (BURL TF-69)	8.3	3.0	5.7
PSG-8BP2	8.3	3.0	5.7
204 RES. BLK4	7.0	4.0	5.5
RAD-TF-89	8.3	2.7	5.5
WARHAWK	7.3	3.7	5.5
COMP. RES. SST	7.3	3.0	5.2
LSD VALUE	4.9	4.4	5.8
C.V. (%)	11.5	29.3	15.6

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.

APPENDIX TABLE.

SUMMARY OF TURFGRASS QUALITY RATINGS FOR TALL FESCUE CULTIVARS */
2013-17 DATA
TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY		NAME	QUALITY	
	MEAN 1/	MAXIMUM IN TOP 25% 2/		MEAN 1/	MAXIMUM IN TOP 25% 2/
204 RES. BLK4	5.6	10.5	IS-TF-287	6.1	5.3
4TH MILLENNIUM SRP (U43)	6.7	84.2	JS 809	5.6	0.0
AMITY (CCR2)	6.6	84.2	JS 818	5.8	0.0
ANNIHILATOR	5.4	0.0	JS 819	5.7	0.0
AQUADUCT	5.4	5.3	JS 825	5.4	0.0
ARES (PPG-TF-142)	5.9	5.3	JS 916	6.3	26.3
ATF 1704	6.2	15.8	K12-05	6.0	10.5
ATF 1754	6.1	15.8	K12-13	5.5	0.0
AVENGER II (PPG-TF-156)	6.5	89.5	K12-MCD	6.1	15.8
B23	6.3	42.1	KINGDOM (DB1)	6.1	15.8
BAR FA 120878	4.8	0.0	KY-31	3.8	0.0
BAR FA 121089	5.6	0.0	LEONARDO (LTP-FSD)	6.2	21.1
BAR FA 121091	5.5	0.0	MAESTRO (T31)	6.4	57.9
BAR FA 121095	5.7	0.0	MARAUDER	5.4	0.0
BLACK TAIL (PPG-TF-150)	6.4	36.8	MEMPHIS (GO-DFR)	5.8	0.0
BLOODHOUND (MET 6 SEL)	6.3	36.8	MERIDIAN (PST-5GRB)	6.1	15.8
BULLSEYE	6.1	5.3	MET 1	6.6	84.2
CAESAR (TY 10)	5.9	0.0	MET-3	6.4	36.8
CATALYST	6.1	15.8	MICHELANGELO (LTP-F5DPDR)	6.2	31.6
COMP. RES. SST	5.5	0.0	NIGHTCRAWLER (IS-TF 285)	6.0	0.0
CROSSFIRE 4 (IS-TF 310 SEL)	6.3	31.6	OLYMPUS (RAD-TF-88)	6.0	10.5
DIABLO (IS-TF 330)	6.2	21.1	PARAMOUNT (PPG-TF-137)	6.4	52.6
DYNAMITE LS (PPG-TF-145)	5.9	5.3	PPG-TF-115	6.0	15.8
EMBRACE (PST-5EV2)	6.3	26.3	PPG-TF-135	6.4	47.4
F711	6.5	68.4	PPG-TF-138	6.2	5.3
FAITH	6.2	15.8	PPG-TF-169	6.3	42.1
FALCON IV	5.8	5.3	PSG-8BP2	5.7	5.3
FALCON V	6.1	10.5	PSG-GSD	5.8	0.0
FAYETTE (IS-TF 291)	6.4	68.4	PSG-PO1	6.4	36.8
FESNOVA	6.2	10.5	PSG-TT4	5.7	0.0
FIREBIRD 2	6.3	21.1	PST-5BP0	6.1	15.8
FIRECRACKER SLS (PPG-TF-105)	6.4	36.8	PST-5BRK	6.0	26.3
FIREWALL (PSG-WE1)	6.3	42.1	PST-5DZP	5.8	0.0
FOXHOUND (IS-TF 284 M2)	6.2	15.8	PST-5EX2	5.8	15.8
FRONTLINE (EXP TF-09)	5.6	5.3	PST-5MVD	6.0	0.0
GRANDE 3	6.3	15.8	RAD-TF-83	5.7	0.0
GTO (BURL TF-2)	6.4	47.4	RAD-TF-89	6.1	10.5
HEMI	6.4	47.4	RAD-TF-92	6.0	10.5
HOT ROD (BURL TF-136)	6.4	42.1	RAIN DANCE (PST-5SDT)	5.8	5.3
HOUNDOG8 (IS-TF 307 SEL)	6.3	21.1	RAPTOR III (ZW 44)	6.6	78.9
HOVER (BURL TF-69)	6.1	15.8	REBEL V (ATF 1736)	6.0	10.5
INSPIRATION (PST-R5NW)	5.7	5.3	REBOUNDER (PICK-W43)	6.5	57.9
IS-TF 272	6.0	5.3	REFLECTION (U45)	6.5	68.4
IS-TF 276 M2	6.0	10.5	REGENERATE	6.6	68.4
IS-TF 311	6.3	26.3	RHAMBLER 2 SRP (LSD)	6.2	26.3

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR TALL FESCUE CULTIVARS
(CONT'D) 2013-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
RHIZING MOON (IS-TF 305 SEL)	6.2	26.3
ROCKWELL (LTP-TWUU)	6.4	63.2
ROWDY (SRX-TPC)	6.4	52.6
SALTILLO (PST-5SALT)	6.1	10.5
SCREAMER LS (PPG-TF-148)	6.3	26.3
STANDOUT (IS-TF 308 SEL)	6.3	47.4
SUPERSONIC (PPG-TF-170)	6.4	63.2
SWAGGER (PST-5RO5)	5.9	5.3
TECHNIQUE (RZ2)	6.5	63.2
TEMPLE (DZ1)	6.3	31.6
TEMPTATION (OR-21)	5.9	15.8
TERRANO	6.0	10.5
THOR (PPG-TF-157)	6.5	63.2
THUNDERSTRUCK (TD1)	6.0	5.3
TITANIUM 2LS (PPG-TF-152)	6.5	73.7
TRAVERSE 2 SRP (W45)	6.6	73.7
TRENDING (IS-TF 269 SEL)	6.2	26.3
TRINITY (BIZEM)	6.4	68.4
TURFWAY (IS-TF 282 M2)	6.2	26.3
UNITUS (IS-TF 289)	6.1	10.5
VALKYRIE LS (PPG-TF-172)	6.4	36.8
VERT (ATF 1612)	6.3	21.1
W41	6.4	42.1
WARHAWK	5.3	0.0
WICHITA (PPG-TF-151)	6.3	26.3
XTENDER (PPG-TF-139)	6.2	10.5
LSD VALUE	0.2	
C.V. (%)	7.7	

- */ 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.