

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 2017

State	Location	Code
California	Riverside	CA3
Connecticut	Storrs	CT1
Georgia	Griffin	GA1
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kansas	Wichita	KS2
Kentucky	Lexington	KY1
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
Tennessee	Knoxville (Traffic)	TN2
Utah	Logan (Drought)	UT1
Virginia	Blacksburg	VA1

2012 National Tall Fescue Test Entries and Sponsors

Entry	Name	Sponsor	Entry	Name	Sponsor	Entry	Name	Sponsor
1	Terrano	SemillasFito 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	SemillasFitoS.A	*43	Leonardo (LTP-FSD)	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-FSDPDR)	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-148)	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)	SemillasFito 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.

2017 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
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	61-150	151-240	-	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
GA1	SANDY CLAY LOAM	4.6-5.5	0-60	151-240	3.1-4.0	FULL SUN	2.6-3.0	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	ONLY DURING SEVERE STRESS
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	UNIFORM 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+	0.0-1.0	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	3.1-3.5	TO PREVENT DORMANCY
MO1	-	-	-	-	-	-	-	-
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	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	61-150	376-500	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ2	SANDY LOAM	5.6-6.0	271-450	501+	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ3	LOAM	6.1-6.5	61-150	376-500	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
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
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

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
CA3	X	X	X	X	X	X	X	X	X	X	X	X	X		X
CT1					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		
IL1				X	X	X	X	X	X	X			X	X	X
IL2			X	X	X	X	X	X	X	X	X				
IN1					X	X	X	X	X	X	X		X		X
KS2				X	X	X	X	X	X	X				X	X
KY1				X	X	X	X	X	X	X					
MD1				X	X	X	X	X	X	X	X				
MO1				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
NE1				X	X	X	X	X	X	X			X	X	X
NJ1				X	X	X	X	X	X	X				X	
NJ2				X	X	X	X	X	X	X	X		X		X
NJ3															
TN1	X	X	X	X	X	X	X	X	X	X	X	X	X		
TN2	X	X	X	X	X	X	X	X	X	X	X	X	X		
UT1				X	X	X	X	X	X	X				X	
VA1				X	X	X	X	X	X	X					

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2017

LOCATION	SPRING DENSITY	SUMMER DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	BROWN PATCH WARM	PYTHIUM BLIGHT	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	GRAY AUGUST	LEAF SPOT OCTOBER
CA3		X						X				
CT1												
GA1						X						
IA1												
IL1										X		
IL2												
IN1	X											
KS2							X			X		
KY1												
MD1												
MO1												
MS1						X						
NC1	X		X			X					X	X
NE1									X			
NJ1												
NJ2							X					
* NJ3												
TN1			X	X	X	X						
TN2			X	X	X	X						
UT1												
VA1												

* MORE DATA FOR NJ3 IN TABLE 12.

TABLE 1.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2

NAME	ENTRY #	CT1	MS1	KY1	IN1	MO1	NE1	MEAN
* AMITY (CCR2)	94	7.1	6.4	7.3	7.2	5.0	5.3	6.8
PPG-TF-135	85	6.9	6.3	7.1	7.1	4.9	5.2	6.6
* PARAMOUNT (PPG-TF-137)	84	7.0	6.3	7.2	7.1	4.9	5.2	6.6
* TITANIUM 2LS (PPG-TF-152)	90	7.0	6.2	7.2	7.1	4.8	5.2	6.6
* SUPERSONIC (PPG-TF-170)	83	6.9	6.3	7.1	7.0	4.9	5.1	6.6
* TRINITY (BIZEM)	93	6.9	6.2	7.2	7.1	4.8	5.1	6.6
* VALKYRIE LS (PPG-TF-172)	88	6.9	6.2	7.1	7.0	4.8	5.1	6.6
W41	96	6.8	6.3	7.2	7.1	4.9	5.2	6.6
* BLACK TAIL (PPG-TF-150)	92	6.9	6.2	7.2	7.1	4.8	5.2	6.5
* SCREAMER LS (PPG-TF-148)	91	6.8	6.2	7.1	7.0	4.7	5.0	6.5
* WICHITA (PPG-TF-151)	89	6.8	6.2	7.1	7.0	4.8	5.1	6.5
* 4TH MILLENNIUM SRP (U43)	7	7.3	6.5	7.4	7.3	5.1	5.4	6.5
* FIRECRACKER SLS (PPG-TF-105)	87	6.8	6.1	7.1	7.0	4.7	5.1	6.5
MET 1	21	7.2	6.5	7.3	7.2	5.1	5.3	6.4
MET-3	95	6.7	6.2	7.1	7.0	4.7	5.0	6.4
F711	22	7.0	6.5	7.3	7.2	5.1	5.3	6.4
REGENERATE	3	7.2	6.4	7.3	7.2	4.9	5.3	6.4
PPG-TF-138	98	6.7	6.1	7.0	6.9	4.7	5.0	6.4
* RAPTOR III (ZW 44)	5	7.1	6.4	7.3	7.2	5.0	5.3	6.4
* XTENDER (PPG-TF-139)	99	6.6	6.1	7.0	6.9	4.6	5.0	6.4
* THOR (PPG-TF-157)	81	7.1	6.3	7.2	7.1	4.9	5.2	6.3
* TRAVERSE 2 SRP (W45)	6	7.0	6.3	7.2	7.2	4.9	5.2	6.3
* REFLECTION (U45)	37	7.1	6.3	7.3	7.2	4.9	5.2	6.3
PPG-TF-115	86	6.5	6.1	6.9	6.8	4.7	4.9	6.3
* HOVER (BURL TF-69)	114	6.6	6.0	6.9	6.9	4.6	4.9	6.3
RAD-TF-89	101	6.5	6.1	6.9	6.9	4.6	4.9	6.3
* MAESTRO (T31)	73	6.9	6.3	7.2	7.1	4.9	5.2	6.3
* REBOUNDER (PICK-W43)	34	6.9	6.3	7.2	7.1	4.8	5.2	6.3
* ROCKWELL (LTP-TWUU)	44	6.9	6.3	7.2	7.1	4.9	5.2	6.3
* TECHNIQUE (RZ2)	70	6.9	6.3	7.2	7.1	4.9	5.2	6.3
PSG-P01	36	6.8	6.3	7.2	7.1	4.9	5.2	6.3
K12-MCD	104	6.4	6.1	6.9	6.8	4.7	4.9	6.2
IS-TF 311	52	6.8	6.3	7.2	7.1	4.9	5.2	6.2
* GTO (BURL TF-2)	41	6.9	6.3	7.2	7.1	4.9	5.2	6.2
PPG-TF-169	82	6.8	6.3	7.2	7.1	4.9	5.2	6.2
* GRANDE 3	35	6.8	6.3	7.1	7.0	4.9	5.1	6.2
* LEONARDO (LTP-FSD)	43	6.7	6.4	7.1	7.0	4.9	5.2	6.2
RAD-TF-92	102	6.5	5.9	6.9	6.8	4.5	4.9	6.2
* OLYMPUS (RAD-TF-88)	108	6.4	6.0	6.9	6.8	4.5	4.9	6.2
* ROWDY (SRX-TPC)	32	6.9	6.3	7.1	7.0	4.8	5.1	6.2
* TRENDING (IS-TF 269 SEL)	26	6.7	6.3	7.2	7.1	4.8	5.2	6.2
* AVENGER II (PPG-TF-156)	80	7.0	6.2	7.1	7.0	4.8	5.1	6.2
PST-5EX2	105	6.2	6.1	6.7	6.6	4.7	4.8	6.2
* HOT ROD (BURL TF-136)	42	6.8	6.2	7.1	7.0	4.8	5.1	6.2
* HEMI	58	6.7	6.2	7.1	7.0	4.8	5.1	6.2
* TEMPLE (DZ1)	72	6.7	6.2	7.1	7.0	4.8	5.1	6.2

Taken from 2012 Tall Fescue test - 2017 data report with permission from NTEP

TABLE 1.
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2

NAME	ENTRY #	CT1	MS1	KY1	IN1	MO1	NE1	MEAN
* EMBRACE (PST-5EV2)	61	6.7	6.2	7.1	7.0	4.8	5.1	6.2
JS 916	19	6.7	6.2	7.1	7.0	4.8	5.1	6.2
* RHIZING MOON (IS-TF 305 SEL)	25	6.6	6.2	7.1	7.0	4.8	5.1	6.2
* MICHELANGELO (LTP-F5DPDR)	45	6.7	6.3	7.0	7.0	4.9	5.1	6.1
* CROSSFIRE 4 (IS-TF 310 SEL)	54	6.8	6.1	7.1	7.0	4.7	5.1	6.1
* FALCON V	116	6.4	5.9	6.8	6.7	4.5	4.8	6.1
* FAITH	77	6.6	6.3	7.0	7.0	4.8	5.1	6.1
PST-5MVD	106	6.3	6.0	6.8	6.7	4.6	4.8	6.1
* DIABLO (IS-TF 330)	48	6.6	6.2	7.0	7.0	4.8	5.1	6.1
* FAYETTE (IS-TF 291)	23	6.7	6.1	7.1	7.0	4.7	5.0	6.1
* STANDOUT (IS-TF 308 SEL)	51	6.8	6.1	7.0	6.9	4.7	5.0	6.1
ATF 1704	40	6.7	6.2	7.0	6.9	4.7	5.0	6.1
* VERT (ATF 1612)	39	6.7	6.1	7.0	6.9	4.7	5.0	6.1
* TURFWAY (IS-TF 282 M2)	27	6.6	6.2	7.0	6.9	4.7	5.0	6.1
* FOXHOUND (IS-TF 284 M2)	28	6.6	6.1	7.1	7.0	4.7	5.1	6.1
PST-5BP0	67	6.6	6.2	6.9	6.9	4.8	5.0	6.1
* DYNAMITE LS (PPG-TF-145)	97	6.2	5.9	6.9	6.8	4.5	4.9	6.1
* BLOODHOUND (MET 6 SEL)	47	6.7	6.1	7.0	6.9	4.7	5.0	6.1
* MEMPHIS (GO-DFR)	103	6.2	6.0	6.8	6.7	4.5	4.8	6.1
* FIREWALL (PSG-WE1)	33	6.7	6.1	7.0	6.9	4.7	5.0	6.1
* FIREBIRD 2	59	6.7	6.1	7.0	6.9	4.7	5.0	6.1
* SALTILLO (PST-5SALT)	63	6.5	6.2	6.9	6.9	4.7	5.0	6.0
* HOUND0G8 (IS-TF 307 SEL)	50	6.5	6.1	7.0	6.9	4.7	5.0	6.0
FESNOVA	4	6.3	6.2	7.0	6.9	4.7	5.0	6.0
ATF 1754	57	6.5	6.1	6.9	6.9	4.7	5.0	6.0
* THUNDERSTRUCK (TD1)	71	6.4	6.1	7.0	6.9	4.7	5.0	6.0
IS-TF 276 M2	24	6.4	6.1	6.9	6.9	4.7	5.0	6.0
PST-5BRK	68	6.4	6.2	6.9	6.8	4.7	4.9	6.0
* ARES (PPG-TF-142)	100	6.1	5.9	6.8	6.7	4.4	4.8	6.0
* REBEL V (ATF 1736)	56	6.4	6.1	6.9	6.8	4.7	4.9	6.0
B23	38	6.6	6.0	7.0	6.9	4.5	4.9	6.0
RAD-TF-83	107	6.1	5.8	6.6	6.6	4.4	4.7	6.0
* BULLSEYE	60	6.4	6.0	6.9	6.8	4.6	4.9	6.0
* KINGDOM (DB1)	69	6.4	6.1	6.9	6.8	4.6	4.9	6.0
IS-TF 272	55	6.4	6.0	7.0	6.9	4.6	5.0	6.0
* RHAMBLER 2 SRP (LSD)	8	6.6	6.0	6.9	6.8	4.5	4.9	5.9
* CAESAR (TY 10)	30	6.2	6.1	6.9	6.8	4.6	4.9	5.9
K12-05	79	6.4	6.0	6.9	6.8	4.5	4.9	5.9
IS-TF-287	49	6.5	5.9	6.9	6.8	4.5	4.9	5.9
* MERIDIAN (PST-5GRB)	62	6.5	5.9	6.9	6.8	4.5	4.9	5.9
* UNITUS (IS-TF 289)	46	6.2	6.0	6.9	6.8	4.6	4.9	5.9
* INSPIRATION (PST-R5NW)	113	5.9	5.9	6.6	6.5	4.5	4.7	5.9
BAR FA 121095	112	6.0	5.8	6.6	6.5	4.4	4.7	5.9
* CATALYST	10	6.3	5.9	6.8	6.7	4.4	4.8	5.8
PSG-TT4	76	6.1	6.0	6.7	6.6	4.6	4.8	5.8
* NIGHTCRAWLER (IS-TF 285)	53	6.3	5.8	6.8	6.7	4.4	4.8	5.8
TERRANO	1	6.1	6.0	6.7	6.6	4.5	4.8	5.8

Taken from 2012 Tall Fescue test - 2017 data report with permission from NTEP

TABLE 1.
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2

NAME	ENTRY #	CT1	MS1	KY1	IN1	MO1	NE1	MEAN
* TEMPTATION (OR-21)	29	6.0	6.0	6.7	6.6	4.5	4.8	5.8
BAR FA 121089	110	5.8	5.7	6.5	6.4	4.3	4.5	5.8
* FALCON IV	115	5.8	5.8	6.6	6.5	4.3	4.7	5.8
JS 819	16	5.9	6.0	6.7	6.6	4.5	4.8	5.8
JS 818	17	6.1	5.9	6.7	6.6	4.4	4.8	5.7
BAR FA 121091	111	5.7	5.7	6.5	6.4	4.3	4.5	5.7
* SWAGGER (PST-5R05)	66	6.0	5.9	6.6	6.6	4.5	4.7	5.7
PST-5DZP	65	6.0	5.8	6.7	6.6	4.3	4.7	5.7
PSG-GSD	74	5.9	5.9	6.6	6.6	4.4	4.7	5.7
204 RES. BLK4	15	6.0	5.7	6.7	6.6	4.2	4.7	5.7
* RAIN DANCE (PST-5SDT)	64	5.9	5.9	6.5	6.5	4.4	4.6	5.6
PSG-8BP2	75	5.9	5.8	6.6	6.5	4.4	4.6	5.6
K12-13	78	5.9	5.7	6.6	6.5	4.2	4.6	5.6
JS 809	18	5.8	5.8	6.6	6.5	4.3	4.6	5.6
* ANNIHILATOR	13	5.6	5.7	6.5	6.4	4.2	4.6	5.5
COMP. RES. SST	14	5.8	5.6	6.5	6.4	4.1	4.5	5.5
* MARAUDER	11	5.6	5.6	6.5	6.4	4.2	4.5	5.5
* FRONTLINE (EXP TF-09)	31	5.5	5.7	6.4	6.4	4.2	4.5	5.5
JS 825	20	5.5	5.8	6.4	6.3	4.3	4.5	5.5
* AQUADUCT	9	5.6	5.7	6.4	6.3	4.2	4.4	5.4
* WARHAWK	12	5.3	5.6	6.3	6.2	4.1	4.4	5.3
BAR FA 120878	109	4.8	5.5	5.9	5.8	4.1	4.1	5.2
* KY-31	2	3.8	4.5	4.7	4.7	3.0	2.9	3.9
LSD VALUE		0.7	0.7	0.7	0.7	0.7	0.7	0.7
C.V. (%)		7.2	7.7	6.7	6.8	10.1	9.5	7.7

* COMMERCIALY AVAILABLE IN THE USA IN 2018

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	GA1	TN1	IA1	CA3	MEAN
F711	5.7	7.4	7.1	6.6	6.7
4TH MILLENNIUM SRP (U43)	5.6	7.3	7.1	6.6	6.7
PSG-P01	5.6	7.3	7.1	6.6	6.6
IS-TF 311	5.6	7.3	7.0	6.5	6.6
TRENDING (IS-TF 269 SEL)	5.5	7.3	7.1	6.6	6.6
PPG-TF-169	5.6	7.3	7.0	6.5	6.6
RAPTOR III (ZW 44)	5.6	7.2	7.0	6.5	6.6
REFLECTION (U45)	5.5	7.2	7.1	6.6	6.6
MET 1	5.6	7.2	7.0	6.5	6.6
RHIZING MOON (IS-TF 305 SEL)	5.5	7.3	7.0	6.5	6.6
LEONARDO (LTP-FSD)	5.6	7.3	7.0	6.5	6.6
REGENERATE	5.5	7.2	7.1	6.6	6.6
MAESTRO (T31)	5.5	7.2	7.0	6.5	6.6
TEMPLE (DZ1)	5.5	7.2	7.0	6.5	6.6
REBOUNDER (PICK-W43)	5.5	7.2	7.0	6.5	6.6
ROCKWELL (LTP-TWUU)	5.5	7.2	7.0	6.5	6.5
TRAVERSE 2 SRP (W45)	5.5	7.2	7.0	6.5	6.5
TECHNIQUE (RZ2)	5.5	7.2	7.0	6.5	6.5
FESNOVA	5.5	7.2	6.9	6.4	6.5
GTO (BURL TF-2)	5.5	7.2	7.0	6.5	6.5
FOXHOUND (IS-TF 284 M2)	5.4	7.2	7.0	6.5	6.5
HEMI	5.5	7.2	7.0	6.5	6.5
THOR (PPG-TF-157)	5.5	7.2	7.0	6.5	6.5
GRANDE 3	5.5	7.2	6.9	6.4	6.5
FAITH	5.5	7.2	6.9	6.4	6.5
CAESAR (TY 10)	5.5	7.2	6.9	6.4	6.5
DIABLO (IS-TF 330)	5.5	7.2	6.9	6.4	6.5
HOT ROD (BURL TF-136)	5.4	7.1	7.0	6.5	6.5
JS 916	5.4	7.1	6.9	6.4	6.5
IS-TF 272	5.4	7.1	7.0	6.4	6.5
TURFWAY (IS-TF 282 M2)	5.4	7.1	6.9	6.4	6.5
IS-TF 276 M2	5.5	7.2	6.9	6.4	6.5
THUNDERSTRUCK (TD1)	5.4	7.2	6.9	6.4	6.5
EMBRACE (PST-5EV2)	5.4	7.1	6.9	6.4	6.5
CROSSFIRE 4 (IS-TF 310 SEL)	5.4	7.1	6.9	6.4	6.5
UNITUS (IS-TF 289)	5.4	7.1	6.9	6.4	6.5
FAYETTE (IS-TF 291)	5.4	7.1	6.9	6.4	6.5
HOUNDOG8 (IS-TF 307 SEL)	5.4	7.1	6.9	6.4	6.5
ROWDY (SRX-TPC)	5.4	7.1	6.9	6.4	6.4
MICHELANGELO (LTP-F5DPDR)	5.5	7.1	6.8	6.3	6.4
AMITY (CCR2)	5.6	7.3	7.0	6.5	6.4
W41	5.5	7.3	7.1	6.6	6.4
ATF 1704	5.4	7.1	6.8	6.3	6.4
PST-5BP0	5.5	7.1	6.8	6.3	6.4
KINGDOM (DB1)	5.3	7.1	6.8	6.3	6.4
ATF 1754	5.4	7.1	6.8	6.3	6.4

TABLE 2. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	GA1	TN1	IA1	CA3	MEAN
PST-5BRK	5.4	7.1	6.8	6.3	6.4
BULLSEYE	5.3	7.1	6.8	6.3	6.4
JS 819	5.4	7.1	6.8	6.3	6.4
SALTILLO (PST-5SALT)	5.4	7.1	6.8	6.3	6.4
REBEL V (ATF 1736)	5.4	7.1	6.8	6.3	6.4
BLOODHOUND (MET 6 SEL)	5.4	7.0	6.8	6.3	6.4
VERT (ATF 1612)	5.3	7.0	6.8	6.3	6.4
AVENGER II (PPG-TF-156)	5.3	7.0	6.8	6.3	6.4
STANDOUT (IS-TF 308 SEL)	5.3	7.0	6.8	6.3	6.4
B23	5.2	7.0	6.8	6.3	6.3
BLACK TAIL (PPG-TF-150)	5.5	7.2	7.1	6.6	6.3
TEMPTATION (OR-21)	5.4	7.0	6.7	6.2	6.3
FIREBIRD 2	5.3	7.0	6.8	6.3	6.3
FIREWALL (PSG-WE1)	5.3	7.0	6.8	6.3	6.3
K12-05	5.3	7.0	6.8	6.3	6.3
JS 818	5.2	7.0	6.8	6.2	6.3
TERRANO	5.3	7.0	6.7	6.2	6.3
PPG-TF-135	5.5	7.1	6.9	6.4	6.3
PARAMOUNT (PPG-TF-137)	5.4	7.1	7.0	6.5	6.3
CATALYST	5.2	7.0	6.8	6.3	6.3
PSG-TT4	5.4	7.0	6.6	6.1	6.3
TRINITY (BIZEM)	5.4	7.1	7.0	6.5	6.3
TITANIUM 2LS (PPG-TF-152)	5.4	7.1	7.0	6.5	6.3
RHAMBLER 2 SRP (LSD)	5.2	6.9	6.7	6.2	6.3
SUPERSONIC (PPG-TF-170)	5.4	7.1	6.9	6.4	6.3
IS-TF-287	5.2	6.9	6.7	6.2	6.3
MERIDIAN (PST-5GRB)	5.1	6.9	6.7	6.2	6.3
204 RES. BLK4	5.1	6.9	6.8	6.2	6.3
PSG-GSD	5.2	7.0	6.7	6.2	6.3
WICHITA (PPG-TF-151)	5.4	7.1	6.9	6.4	6.3
K12-MCD	5.4	7.1	6.8	6.3	6.2
PST-5DZP	5.2	6.9	6.7	6.2	6.2
NIGHTCRAWLER (IS-TF 285)	5.1	6.9	6.7	6.2	6.2
MET-3	5.4	7.1	6.9	6.4	6.2
DYNAMITE LS (PPG-TF-145)	5.3	7.1	6.9	6.4	6.2
JS 809	5.2	6.9	6.7	6.1	6.2
ANNIHILATOR	5.2	6.9	6.6	6.1	6.2
FIRECRACKER SLS (PPG-TF-105)	5.3	7.1	6.9	6.4	6.2
ARES (PPG-TF-142)	5.3	7.1	6.9	6.4	6.2
SWAGGER (PST-5R05)	5.2	6.9	6.6	6.1	6.2
K12-13	5.1	6.9	6.7	6.2	6.2
MEMPHIS (GO-DFR)	5.3	7.1	6.8	6.3	6.2
PPG-TF-138	5.3	7.0	6.8	6.3	6.2
RAD-TF-89	5.3	7.0	6.8	6.3	6.2
FRONTLINE (EXP TF-09)	5.2	6.9	6.6	6.1	6.2
SCREAMER LS (PPG-TF-148)	5.3	7.0	6.8	6.3	6.2

TABLE 2. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	GA1	TN1	IA1	CA3	MEAN
MARAUDER	5.1	6.9	6.6	6.1	6.2
VALKYRIE LS (PPG-TF-172)	5.3	7.0	6.8	6.3	6.2
PSG-8BP2	5.2	6.9	6.6	6.0	6.2
PPG-TF-115	5.3	7.0	6.7	6.2	6.2
PST-5EX2	5.4	6.9	6.5	6.0	6.2
PST-5MVD	5.3	7.0	6.7	6.2	6.1
XTENDER (PPG-TF-139)	5.3	7.0	6.8	6.3	6.1
COMP. RES. SST	5.0	6.8	6.6	6.1	6.1
RAD-TF-92	5.2	7.0	6.9	6.4	6.1
OLYMPUS (RAD-TF-88)	5.3	7.0	6.8	6.3	6.1
INSPIRATION (PST-R5NW)	5.3	7.0	6.6	6.1	6.1
FALCON IV	5.2	7.0	6.7	6.2	6.1
RAIN DANCE (PST-5SDT)	5.2	6.8	6.5	6.0	6.1
WARHAWK	5.1	6.8	6.5	6.0	6.1
JS 825	5.2	6.8	6.4	5.9	6.1
HOVER (BURL TF-69)	5.2	7.0	6.8	6.3	6.1
BAR FA 121095	5.2	6.9	6.7	6.1	6.1
FALCON V	5.2	6.9	6.7	6.2	6.0
AQUADUCT	5.1	6.7	6.4	5.9	6.0
BAR FA 121091	5.2	6.9	6.5	6.0	6.0
RAD-TF-83	5.2	6.9	6.6	6.1	6.0
BAR FA 121089	5.1	6.8	6.5	6.0	5.9
BAR FA 120878	5.0	6.6	6.1	5.6	5.8
KY-31	3.8	5.3	4.7	4.2	4.5
LSD VALUE	0.7	0.7	0.7	0.7	0.7
C.V. (%)	8.7	6.6	6.8	7.4	7.4

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- 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 3. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	NJ2	MD1	IL1	MEAN
TITANIUM 2LS (PPG-TF-152)	8.3	6.6	7.1	6.3	7.4
REGENERATE	8.7	7.0	7.4	6.4	7.4
AMITY (CCR2)	8.0	6.6	7.2	6.3	7.3
PARAMOUNT (PPG-TF-137)	8.0	6.5	7.0	6.2	7.2
TRINITY (BIZEM)	8.1	6.4	6.9	6.3	7.2
4TH MILLENNIUM SRP (U43)	8.2	6.9	7.3	6.4	7.2
REFLECTION (U45)	8.6	6.6	7.1	6.5	7.2
FIRECRACKER SLS (PPG-TF-105)	8.1	6.3	6.8	6.3	7.2
BLACK TAIL (PPG-TF-150)	8.1	6.2	6.8	6.5	7.2
SCREAMER LS (PPG-TF-148)	7.9	6.3	6.9	6.1	7.1
VALKYRIE LS (PPG-TF-172)	7.7	6.5	7.0	6.0	7.1
MET 1	8.0	6.8	7.3	6.2	7.1
THOR (PPG-TF-157)	8.1	6.7	7.2	6.2	7.0
TRAVERSE 2 SRP (W45)	8.0	6.6	7.1	6.3	7.0
REBOUNDER (PICK-W43)	8.2	6.4	6.9	6.4	7.0
SUPERSONIC (PPG-TF-170)	7.6	6.4	6.9	6.1	7.0
AVENGER II (PPG-TF-156)	8.1	6.6	7.1	6.1	7.0
PPG-TF-135	7.6	6.3	6.9	6.1	7.0
RAPTOR III (ZW 44)	7.9	6.6	7.1	6.3	7.0
HOVER (BURL TF-69)	7.8	5.9	6.5	6.2	6.8
STANDOUT (IS-TF 308 SEL)	7.9	6.3	6.8	6.2	6.8
CROSSFIRE 4 (IS-TF 310 SEL)	8.0	6.1	6.8	6.3	6.8
HOT ROD (BURL TF-136)	7.9	6.1	6.8	6.3	6.8
ROWDY (SRX-TPC)	7.8	6.3	6.9	6.1	6.8
MET-3	7.6	5.9	6.6	6.2	6.8
W41	7.6	5.9	6.7	6.4	6.8
TECHNIQUE (RZ2)	7.7	6.2	6.8	6.3	6.8
B23	8.0	5.9	6.6	6.3	6.7
XTENDER (PPG-TF-139)	7.5	5.9	6.5	6.1	6.7
WICHITA (PPG-TF-151)	7.4	6.0	6.7	6.1	6.7
GTO (BURL TF-2)	7.6	6.1	6.8	6.2	6.7
F711	7.4	6.1	6.8	6.4	6.7
VERT (ATF 1612)	7.7	6.1	6.7	6.2	6.7
ROCKWELL (LTP-TWUU)	7.5	6.1	6.8	6.2	6.6
PSG-P01	7.7	5.8	6.6	6.5	6.6
FIREBIRD 2	7.6	6.0	6.7	6.1	6.6
RAD-TF-92	7.7	5.5	6.3	6.3	6.6
TEMPLE (DZ1)	7.7	5.7	6.5	6.4	6.6
FAYETTE (IS-TF 291)	7.7	5.8	6.6	6.3	6.6
PPG-TF-138	7.4	5.8	6.5	6.1	6.6
JS 916	7.6	5.9	6.6	6.2	6.6
MAESTRO (T31)	7.4	6.0	6.7	6.2	6.6
FIREWALL (PSG-WE1)	7.5	6.0	6.7	6.0	6.6
HEMI	7.6	5.8	6.6	6.3	6.6
MERIDIAN (PST-5GRB)	7.8	5.8	6.5	6.2	6.5
GRANDE 3	7.3	6.0	6.7	6.1	6.5

TABLE 3. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	NJ2	MD1	IL1	MEAN
EMBRACE (PST-5EV2)	7.4	5.9	6.6	6.2	6.5
RHAMBLER 2 SRP (LSD)	7.7	5.8	6.5	6.1	6.5
TRENDING (IS-TF 269 SEL)	7.5	5.6	6.5	6.4	6.5
IS-TF-287	7.7	5.7	6.4	6.1	6.5
IS-TF 311	7.3	5.7	6.6	6.3	6.5
PPG-TF-169	7.3	5.7	6.5	6.3	6.4
ATF 1704	7.3	5.8	6.5	6.1	6.4
BLOODHOUND (MET 6 SEL)	7.3	5.8	6.5	6.1	6.4
FOXHOUND (IS-TF 284 M2)	7.5	5.5	6.3	6.4	6.4
OLYMPUS (RAD-TF-88)	7.3	5.4	6.2	6.2	6.4
HOUSDOG8 (IS-TF 307 SEL)	7.4	5.5	6.3	6.3	6.3
TURFWAY (IS-TF 282 M2)	7.2	5.5	6.4	6.2	6.3
RHIZING MOON (IS-TF 305 SEL)	7.2	5.4	6.3	6.4	6.3
RAD-TF-89	7.2	5.4	6.3	6.1	6.3
FALCON V	7.3	5.3	6.2	6.1	6.3
MICHELANGELO (LTP-F5DPDR)	6.9	5.7	6.5	6.0	6.3
NIGHTCRAWLER (IS-TF 285)	7.4	5.3	6.1	6.2	6.2
LEONARDO (LTP-FSD)	6.8	5.5	6.4	6.2	6.2
K12-05	7.2	5.3	6.2	6.1	6.2
DIABLO (IS-TF 330)	6.9	5.4	6.3	6.2	6.2
BULLSEYE	7.1	5.3	6.2	6.2	6.2
IS-TF 272	7.3	5.0	6.0	6.4	6.2
CATALYST	7.2	5.1	6.1	6.1	6.1
ATF 1754	6.9	5.3	6.2	6.1	6.1
FAITH	6.7	5.4	6.3	6.1	6.1
KINGDOM (DB1)	7.0	5.2	6.1	6.2	6.1
SALTILLO (PST-5SALT)	6.7	5.4	6.3	6.0	6.1
PPG-TF-115	6.7	5.4	6.3	5.9	6.0
PST-5BP0	6.5	5.4	6.3	5.9	6.0
REBEL V (ATF 1736)	6.7	5.2	6.1	6.1	6.0
THUNDERSTRUCK (TD1)	6.7	5.0	6.0	6.2	6.0
IS-TF 276 M2	6.7	4.9	6.0	6.2	5.9
204 RES. BLK4	7.1	4.5	5.6	6.3	5.9
FESNOVA	6.5	4.7	5.9	6.2	5.8
PST-5BRK	6.3	5.0	6.0	5.9	5.8
DYNAMITE LS (PPG-TF-145)	6.9	4.6	5.8	6.3	5.8
CAESAR (TY 10)	6.4	4.4	5.7	6.3	5.7
K12-MCD	6.5	4.9	6.0	6.0	5.7
JS 818	6.5	4.5	5.6	6.1	5.7
UNITUS (IS-TF 289)	6.4	4.5	5.7	6.2	5.7
PST-5MVD	6.4	4.8	5.9	6.0	5.6
PST-5DZP	6.5	4.4	5.6	6.1	5.6
K12-13	6.6	4.3	5.5	6.1	5.6
ARES (PPG-TF-142)	6.7	4.3	5.6	6.4	5.5
TERRANO	6.0	4.4	5.6	6.0	5.5
RAD-TF-83	6.3	4.6	5.7	5.9	5.5

TABLE 3. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	NJ2	MD1	IL1	MEAN
MEMPHIS (GO-DFR)	6.4	4.5	5.7	6.1	5.4
COMP. RES. SST	6.3	3.9	5.2	6.0	5.4
SWAGGER (PST-5R05)	5.8	4.3	5.5	5.8	5.4
PSG-GSD	5.9	4.1	5.4	6.0	5.3
TEMPTATION (OR-21)	5.8	4.1	5.4	6.0	5.3
JS 809	6.0	3.9	5.3	6.0	5.3
PSG-TT4	5.5	4.3	5.5	5.8	5.3
BAR FA 121095	6.2	4.2	5.4	6.0	5.2
JS 819	5.7	3.8	5.2	6.1	5.2
PSG-8BP2	5.6	4.0	5.3	5.8	5.2
RAIN DANCE (PST-5SDT)	5.3	4.1	5.4	5.6	5.1
MARAUDER	5.7	3.4	4.9	6.0	5.0
PST-5EX2	5.3	4.6	5.7	5.6	5.0
ANNIHILATOR	5.4	3.3	4.8	6.0	4.9
BAR FA 121089	5.7	4.0	5.3	5.7	4.8
AQUADUCT	5.1	3.5	4.9	5.6	4.8
FALCON IV	5.8	3.6	5.1	6.1	4.7
FRONTLINE (EXP TF-09)	5.0	3.1	4.7	5.9	4.7
INSPIRATION (PST-R5NW)	5.4	3.8	5.2	5.8	4.6
WARHAWK	4.9	2.7	4.4	5.9	4.5
JS 825	4.4	3.0	4.6	5.6	4.4
BAR FA 121091	5.3	3.5	5.0	5.8	4.4
KY-31	1.0	0.9	2.7	3.5	2.0
BAR FA 120878	2.4	1.5	3.5	5.1	1.9
LSD VALUE	0.7	0.7	0.7	0.7	0.7
C.V. (%)	6.7	8.9	7.6	7.6	7.6

- * ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF
- 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.

Taken from 2012 Tall Fescue test - 2017 data report with permission from NTEP

TABLE 4.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	VA1	NC1	MEAN	NAME	VA1	NC1	MEAN
MET 1	7.5	6.8	7.2	VERT (ATF 1612)	6.8	5.9	6.4
4TH MILLENNIUM SRP (U43)	7.4	6.7	7.0	STANDOUT (IS-TF 308 SEL)	6.9	5.9	6.4
RAPTOR III (ZW 44)	7.3	6.6	7.0	ATF 1754	6.8	6.0	6.4
F711	7.3	6.6	6.9	MET-3	6.8	5.9	6.4
AMITY (CCR2)	7.3	6.5	6.9	HOT ROD (BURL TF-136)	6.9	5.9	6.4
SUPERSONIC (PPG-TF-170)	7.2	6.6	6.9	PSG-P01	6.9	5.8	6.4
PPG-TF-135	7.2	6.6	6.9	PSG-TT4	6.7	6.0	6.4
PST-5EX2	7.1	6.7	6.9	K12-MCD	6.7	6.0	6.4
THOR (PPG-TF-157)	7.3	6.5	6.9	REBEL V (ATF 1736)	6.8	5.9	6.3
VALKYRIE LS (PPG-TF-172)	7.2	6.5	6.8	XTENDER (PPG-TF-139)	6.8	5.8	6.3
PST-5BP0	7.1	6.5	6.8	TRENDING (IS-TF 269 SEL)	6.8	5.8	6.3
MICHELANGELO (LTP-F5DPDR)	7.1	6.5	6.8	TURFWAY (IS-TF 282 M2)	6.8	5.8	6.3
GRANDE 3	7.2	6.4	6.8	RHIZING MOON (IS-TF 305 SEL)	6.8	5.8	6.3
LEONARDO (LTP-FSD)	7.1	6.5	6.8	FIRECRACKER SLS (PPG-TF-105)	6.8	5.8	6.3
TRAVERSE 2 SRP (W45)	7.2	6.3	6.8	BLACK TAIL (PPG-TF-150)	6.8	5.7	6.3
MAESTRO (T31)	7.1	6.4	6.8	CROSSFIRE 4 (IS-TF 310 SEL)	6.8	5.8	6.3
REGENERATE	7.2	6.3	6.7	RAIN DANCE (PST-5SDT)	6.6	5.9	6.2
ROCKWELL (LTP-TWUU)	7.1	6.3	6.7	FAYETTE (IS-TF 291)	6.7	5.7	6.2
ROWDY (SRX-TPC)	7.1	6.3	6.7	TEMPLE (DZ1)	6.8	5.7	6.2
AVENGER II (PPG-TF-156)	7.1	6.3	6.7	THUNDERSTRUCK (TD1)	6.7	5.8	6.2
PARAMOUNT (PPG-TF-137)	7.1	6.2	6.7	RAD-TF-89	6.7	5.7	6.2
WICHITA (PPG-TF-151)	7.0	6.3	6.7	IS-TF 276 M2	6.7	5.7	6.2
TECHNIQUE (RZ2)	7.1	6.2	6.7	FESNOVA	6.6	5.7	6.2
FAITH	7.0	6.3	6.6	PST-5MVD	6.6	5.7	6.1
GTO (BURL TF-2)	7.1	6.2	6.6	KINGDOM (DB1)	6.6	5.7	6.1
SALTILLO (PST-5SALT)	7.0	6.3	6.6	HOUNDOG8 (IS-TF 307 SEL)	6.6	5.6	6.1
PPG-TF-115	6.9	6.2	6.6	BULLSEYE	6.6	5.6	6.1
PST-5BRK	6.9	6.2	6.6	FOXHOUND (IS-TF 284 M2)	6.6	5.5	6.1
PPG-TF-169	7.0	6.1	6.6	TERRANO	6.5	5.7	6.1
IS-TF 311	7.0	6.1	6.6	RHAMBLER 2 SRP (LSD)	6.6	5.5	6.1
EMBRACE (PST-5EV2)	7.0	6.1	6.6	SWAGGER (PST-5R05)	6.5	5.7	6.1
SCREAMER LS (PPG-TF-148)	7.0	6.1	6.5	HOVER (BURL TF-69)	6.6	5.5	6.0
TITANIUM 2LS (PPG-TF-152)	7.0	6.0	6.5	K12-05	6.5	5.5	6.0
ATF 1704	6.9	6.1	6.5	TEMPTATION (OR-21)	6.5	5.6	6.0
BLOODHOUND (MET 6 SEL)	6.9	6.1	6.5	INSPIRATION (PST-R5NW)	6.4	5.6	6.0
FIREWALL (PSG-WE1)	6.9	6.1	6.5	OLYMPUS (RAD-TF-88)	6.5	5.5	6.0
TRINITY (BIZEM)	7.0	6.0	6.5	RAD-TF-83	6.4	5.5	6.0
W41	6.9	6.0	6.5	IS-TF-287	6.5	5.4	6.0
DIABLO (IS-TF 330)	6.9	6.0	6.5	UNITUS (IS-TF 289)	6.5	5.5	6.0
JS 916	6.9	6.0	6.4	MEMPHIS (GO-DFR)	6.4	5.4	5.9
REBOUNDER (PICK-W43)	6.9	5.9	6.4	JS 825	6.3	5.6	5.9
REFLECTION (U45)	7.0	5.9	6.4	FALCON V	6.4	5.4	5.9
HEMI	6.9	5.9	6.4	PSG-8BP2	6.3	5.5	5.9
PPG-TF-138	6.8	6.0	6.4	MERIDIAN (PST-5GRB)	6.5	5.4	5.9
FIREBIRD 2	6.8	6.0	6.4	B23	6.5	5.3	5.9

TABLE 4. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	VA1	NC1	MEAN
CAESAR (TY 10)	6.4	5.4	5.9
JS 819	6.3	5.4	5.8
BAR FA 121089	6.2	5.4	5.8
CATALYST	6.4	5.2	5.8
RAD-TF-92	6.4	5.2	5.8
BAR FA 120878	6.0	5.6	5.8
PSG-GSD	6.3	5.3	5.8
IS-TF 272	6.4	5.2	5.8
BAR FA 121095	6.2	5.2	5.7
AQUADUCT	6.1	5.3	5.7
BAR FA 121091	6.1	5.3	5.7
JS 818	6.2	5.1	5.7
NIGHTCRAWLER (IS-TF 285)	6.3	5.1	5.7
DYNAMITE LS (PPG-TF-145)	6.2	5.0	5.6
PST-5DZP	6.2	5.1	5.6
JS 809	6.1	5.0	5.6
ARES (PPG-TF-142)	6.1	4.8	5.5
FRONTLINE (EXP TF-09)	5.9	4.9	5.4
FALCON IV	6.0	4.8	5.4
K12-13	6.0	4.8	5.4
KY-31	5.3	5.4	5.3
ANNIHILATOR	5.9	4.8	5.3
MARAUDER	5.8	4.7	5.3
204 RES. BLK4	5.9	4.5	5.2
COMP. RES. SST	5.8	4.6	5.2
WARHAWK	5.7	4.6	5.2
LSD VALUE	0.7	0.7	0.7
C.V. (%)	7.0	8.1	7.5

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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 TEN LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE A" *
2017 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										MEAN
	CA3	GA1	IA1	MD1	MS1	NC1	NE1	NJ1	NJ2	TN1	
4TH MILLENNIUM SRP (U43)	7.1	5.5	6.9	7.2	6.8	6.9	5.3	8.5	6.7	7.3	6.8
REGENERATE	6.9	5.6	7.1	7.5	6.2	6.5	5.1	8.4	7.3	7.2	6.8
RAPTOR III (ZW 44)	6.4	5.2	7.1	7.2	6.4	6.9	5.5	8.2	6.2	7.4	6.7
MET 1	6.6	5.9	6.8	6.9	6.2	6.7	5.3	8.0	7.0	7.1	6.6
REFLECTION (U45)	6.4	5.6	7.3	7.3	6.4	5.8	5.3	8.5	6.5	7.1	6.6
F711	6.4	5.8	7.7	6.9	6.5	6.7	5.2	8.0	5.5	7.4	6.6
AMITY (CCR2)	6.8	5.3	6.6	7.1	6.3	6.6	5.2	8.0	6.8	7.3	6.6
TECHNIQUE (RZ2)	6.9	5.4	7.4	7.4	6.6	6.4	5.1	7.9	5.8	6.9	6.6
THOR (PPG-TF-157)	6.1	5.6	6.7	6.9	6.5	6.2	5.2	7.7	7.3	7.3	6.6
TRAVERSE 2 SRP (W45)	6.2	5.5	6.9	7.3	6.0	6.4	5.3	8.2	6.3	7.3	6.5
REBOUNDER (PICK-W43)	6.4	5.2	7.1	7.3	6.6	5.7	5.3	7.9	6.3	7.4	6.5
TITANIUM 2LS (PPG-TF-152)	6.5	5.8	6.6	6.8	6.1	5.9	5.1	8.4	6.8	7.2	6.5
TRINITY (BIZEM)	6.3	5.6	7.1	6.8	6.1	6.3	4.9	8.4	6.2	7.3	6.5
BLACK TAIL (PPG-TF-150)	6.7	5.5	7.0	6.5	6.4	6.1	5.1	8.4	6.0	7.2	6.5
PARAMOUNT (PPG-TF-137)	6.2	5.5	7.2	7.0	6.3	6.2	4.9	8.0	6.5	7.2	6.5
PPG-TF-135	6.4	5.6	7.2	6.8	6.1	6.6	5.1	7.5	6.5	6.9	6.5
AVENGER II (PPG-TF-156)	6.0	5.5	6.4	7.2	6.0	6.3	5.5	8.0	6.7	7.1	6.5
GTO (BURL TF-2)	6.6	5.7	7.0	6.9	6.3	5.9	5.2	7.3	6.5	7.3	6.5
FIRECRACKER SLS (PPG-TF-105)	6.6	5.0	7.6	6.4	6.2	5.9	5.0	7.9	6.7	7.3	6.5
ROCKWELL (LTP-TWUU)	6.8	5.3	7.0	6.8	6.3	6.1	5.4	7.4	6.1	7.3	6.5
ROWDY (SRX-TPC)	6.6	5.0	6.8	6.7	6.3	6.8	5.1	8.0	6.1	7.1	6.4
SUPERSONIC (PPG-TF-170)	6.6	5.4	6.5	7.2	6.4	6.3	5.2	7.3	6.5	7.1	6.4
VALKYRIE LS (PPG-TF-172)	6.1	5.3	6.6	6.7	6.6	6.6	5.0	8.0	6.3	7.1	6.4
SCREAMER LS (PPG-TF-148)	7.0	5.4	6.5	6.5	6.1	6.1	5.0	8.0	6.5	7.1	6.4
W41	6.5	5.3	7.5	6.7	6.3	6.1	5.1	7.9	5.5	7.1	6.4
MAESTRO (T31)	6.9	5.6	6.4	7.3	6.2	6.2	5.1	7.0	6.0	7.2	6.4
GRANDE 3	6.5	5.5	6.8	6.6	6.5	6.2	5.1	7.3	6.3	7.0	6.4
FAYETTE (IS-TF 291)	6.4	5.6	7.0	6.3	6.7	5.6	5.1	7.7	6.0	7.3	6.4
STANDOUT (IS-TF 308 SEL)	6.2	5.4	6.8	6.8	5.9	6.1	5.1	8.0	6.3	7.2	6.4
VERT (ATF 1612)	6.4	5.2	6.6	6.7	6.3	6.3	5.3	7.7	6.2	7.1	6.4
CROSSFIRE 4 (IS-TF 310 SEL)	6.2	5.6	6.6	6.5	6.7	5.5	5.1	8.0	6.2	7.2	6.4
WICHITA (PPG-TF-151)	6.4	5.4	7.1	6.7	6.3	6.4	5.0	7.5	5.8	7.1	6.4
HOT ROD (BURL TF-136)	6.6	5.1	7.0	7.2	6.0	5.6	5.2	7.4	6.3	7.2	6.4
TRENDING (IS-TF 269 SEL)	6.2	5.6	7.2	6.4	6.7	5.8	5.0	7.5	5.8	7.3	6.4
EMBRACE (PST-5EV2)	6.6	5.6	7.1	6.3	6.2	6.4	4.8	7.8	5.7	7.1	6.4
TEMPLE (DZ1)	6.7	5.4	7.2	6.9	6.7	5.2	5.0	7.5	5.9	7.0	6.3
LEONARDO (LTP-FSD)	6.6	5.5	7.2	6.5	6.7	6.5	5.1	6.6	5.6	7.1	6.3
JS 916	6.3	5.5	6.4	6.6	6.5	6.0	5.2	8.0	5.6	7.2	6.3
PSG-P01	7.1	5.7	7.1	6.8	6.4	5.4	4.9	7.3	5.8	6.8	6.3
MICHELANGELO (LTP-F5DPDR)	6.2	5.8	6.8	6.5	6.5	6.6	4.9	6.8	5.8	7.2	6.3
IS-TF 311	6.9	5.3	6.4	6.5	6.3	6.0	5.2	7.2	5.8	7.3	6.3
B23	6.4	5.3	7.0	6.7	5.7	5.6	5.1	8.0	5.8	7.2	6.3
TURFWAY (IS-TF 282 M2)	6.5	5.2	7.0	6.5	6.6	5.9	4.9	7.2	5.5	7.4	6.3
PPG-TF-169	6.4	5.6	6.9	6.4	6.4	5.6	5.1	7.2	5.8	7.0	6.3

TABLE 5. (CONT'D) MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TEN LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE A" *
2017 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										MEAN
	CA3	GA1	IA1	MD1	MS1	NC1	NE1	NJ1	NJ2	TN1	
XTENDER (PPG-TF-139)	6.3	5.3	6.8	6.4	6.2	5.7	5.2	7.5	6.0	7.1	6.3
FIREBIRD 2	6.2	5.3	7.0	6.8	6.1	5.7	5.0	7.6	6.0	6.8	6.3
MET-3	6.5	5.2	7.0	6.7	6.0	5.7	5.0	7.5	6.0	7.0	6.3
FOXHOUND (IS-TF 284 M2)	5.8	5.4	7.4	6.5	6.6	5.4	5.0	7.0	5.8	7.6	6.3
ATF 1704	6.4	5.5	6.4	6.4	6.2	6.1	5.0	7.4	5.9	7.2	6.2
FIREWALL (PSG-WE1)	6.4	5.2	6.6	7.2	6.1	5.5	5.2	7.0	6.3	6.9	6.2
HEMI	6.4	5.6	7.0	6.8	6.1	5.2	4.9	7.2	6.1	7.0	6.2
BLOODHOUND (MET 6 SEL)	6.1	5.2	7.2	6.6	5.9	6.1	5.1	7.2	5.8	6.9	6.2
FAITH	6.3	5.7	7.1	6.2	5.9	6.2	5.1	6.4	5.8	7.1	6.2
RAD-TF-92	6.5	5.3	7.0	6.4	6.3	4.8	5.3	7.7	5.7	6.7	6.2
ATF 1754	6.3	5.6	6.6	6.5	5.9	6.4	5.0	7.0	5.3	7.2	6.2
RHAMBLER 2 SRP (LSD)	6.4	5.1	6.6	6.7	5.6	6.0	4.8	8.1	5.2	7.2	6.2
RHIZING MOON (IS-TF 305 SEL)	6.2	5.6	6.8	6.6	6.2	5.7	4.8	7.1	5.4	7.3	6.2
HOVER (BURL TF-69)	6.6	4.9	6.7	6.6	6.1	5.1	5.2	7.4	6.3	6.9	6.2
DIABLO (IS-TF 330)	6.5	5.2	7.0	6.4	5.9	6.2	4.9	7.0	5.1	7.3	6.1
PST-5BPO	6.1	5.7	6.7	6.1	6.3	6.6	5.0	6.7	5.4	7.0	6.1
SALTILLO (PST-5SALT)	5.9	5.2	7.0	6.3	6.3	6.5	4.8	7.0	5.1	7.2	6.1
MERIDIAN (PST-5GRB)	6.1	5.1	6.5	6.1	6.0	5.4	5.1	8.0	5.9	6.9	6.1
PPG-TF-138	6.1	4.9	7.4	6.7	5.3	5.8	5.0	7.1	5.8	7.1	6.1
HOUNDG8 (IS-TF 307 SEL)	6.1	5.4	7.0	6.7	5.6	5.8	4.8	7.6	4.9	7.2	6.1
KINGDOM (DB1)	6.3	5.0	7.0	6.4	6.3	6.2	5.0	7.1	4.8	7.0	6.1
RAD-TF-89	6.4	5.4	7.1	6.4	6.0	5.5	4.9	7.1	5.5	6.8	6.1
IS-TF-287	6.2	5.1	6.7	6.0	5.9	5.3	5.0	7.7	5.9	7.2	6.1
IS-TF 272	6.0	5.4	7.5	6.3	6.2	5.2	5.0	7.0	5.3	7.2	6.1
REBEL V (ATF 1736)	6.2	6.0	6.8	6.3	6.3	6.0	4.6	6.8	5.0	7.0	6.1
OLYMPUS (RAD-TF-88)	6.6	5.6	6.7	5.8	5.9	5.1	5.0	6.8	6.2	7.0	6.1
PPG-TF-115	6.0	5.3	6.9	6.0	6.0	6.1	4.8	6.5	5.6	7.1	6.0
K12-MCD	6.3	5.5	6.7	5.8	6.5	6.2	4.8	6.5	5.0	7.0	6.0
K12-05	6.2	5.2	6.4	6.2	6.4	5.2	5.0	7.0	5.6	7.3	6.0
THUNDERSTRUCK (TD1)	6.4	5.1	7.2	6.3	6.1	5.5	5.2	6.0	5.4	7.2	6.0
BULLSEYE	6.2	5.5	6.5	5.9	5.7	5.9	4.9	7.6	4.8	7.0	6.0
IS-TF 276 M2	6.3	5.4	7.4	6.2	6.0	5.5	4.9	6.6	4.9	6.8	6.0
PST-5BRK	5.9	5.4	7.3	6.5	5.8	6.3	4.9	6.3	4.6	6.9	6.0
FALCON V	6.7	5.7	6.6	5.6	5.2	5.4	5.1	7.3	5.7	6.7	6.0
FESNOVA	6.4	5.3	6.8	6.3	6.2	6.0	4.8	6.5	4.3	7.2	6.0
UNITUS (IS-TF 289)	6.4	5.6	7.3	6.1	6.0	5.6	4.8	6.0	4.5	6.9	5.9
CAESAR (TY 10)	6.3	5.6	7.0	6.1	6.0	5.5	4.7	6.5	4.2	7.3	5.9
CATALYST	6.2	4.8	7.0	5.5	5.7	5.2	5.0	7.7	4.7	6.9	5.9
NIGHTCRAWLER (IS-TF 285)	6.0	5.2	6.7	6.0	4.8	5.4	5.0	7.7	4.9	7.1	5.9
DYNAMITE LS (PPG-TF-145)	6.4	5.6	7.0	5.3	5.9	4.9	4.7	7.1	4.8	7.1	5.9
MEMPHIS (GO-DFR)	6.1	5.3	7.1	5.8	6.1	5.5	4.8	6.5	4.3	7.2	5.9
TERRANO	6.8	5.5	6.5	5.4	5.6	6.2	4.8	6.5	3.9	7.2	5.8
PST-5EX2	6.0	5.3	6.8	6.0	6.3	6.9	4.8	5.5	4.2	6.5	5.8
PST-5MVD	6.2	5.2	6.6	5.8	5.9	5.7	4.7	6.3	4.9	7.0	5.8
204 RES. BLK4	6.4	5.4	6.6	5.3	5.6	4.6	4.4	7.5	4.7	7.3	5.8

TABLE 5. (CONT'D) MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TEN LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE A" *
2017 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										MEAN
	CA3	GA1	IA1	MD1	MS1	NC1	NE1	NJ1	NJ2	TN1	
JS 818	6.4	4.7	7.2	6.0	5.7	5.3	4.7	6.5	4.2	6.9	5.8
ARES (PPG-TF-142)	6.3	5.1	6.7	5.2	5.7	5.2	5.0	7.3	3.9	7.1	5.7
RAD-TF-83	5.9	5.1	6.9	5.8	6.3	5.1	4.6	5.6	5.4	6.7	5.7
K12-13	5.9	5.4	6.7	5.7	5.7	5.0	4.7	7.0	3.9	7.1	5.7
BAR FA 121095	6.3	5.5	6.7	4.9	6.4	5.0	4.6	5.9	5.0	6.6	5.7
PSG-TT4	6.1	5.3	6.4	5.5	6.3	5.8	4.6	5.3	4.4	6.9	5.7
PST-5DZP	6.3	5.5	6.4	5.5	5.7	5.2	4.7	6.7	4.2	6.6	5.7
PSG-GSD	6.3	5.4	6.8	4.8	5.7	6.0	4.7	6.5	3.6	6.7	5.6
TEMPTATION (OR-21)	5.9	5.1	6.5	5.8	5.9	5.8	4.7	5.9	3.9	7.0	5.6
RAIN DANCE (PST-5SDT)	5.8	5.3	6.6	4.7	5.9	6.3	4.7	5.6	4.4	6.9	5.6
JS 819	6.5	5.4	6.7	5.2	5.5	5.5	4.8	5.5	4.0	7.0	5.6
SWAGGER (PST-5R05)	5.8	5.2	6.6	5.3	5.6	5.9	4.5	6.2	3.9	7.0	5.6
JS 809	6.1	5.5	6.4	5.6	5.8	5.1	4.6	6.2	3.5	6.7	5.5
PSG-8BP2	6.1	5.1	6.6	4.9	5.9	5.6	4.7	5.4	4.3	6.7	5.5
INSPIRATION (PST-R5NW)	6.1	5.3	6.6	5.1	5.9	5.6	4.8	5.5	3.8	6.7	5.5
COMP. RES. SST	5.8	5.3	6.5	5.5	5.6	4.4	4.7	6.1	4.2	6.8	5.5
BAR FA 121089	5.9	5.1	6.1	5.1	6.2	5.2	4.6	5.3	4.5	6.9	5.5
FALCON IV	6.6	4.9	6.4	5.3	6.1	4.6	4.9	5.7	3.3	6.7	5.4
BAR FA 121091	6.0	5.0	6.6	5.1	6.1	5.2	4.4	5.0	3.7	6.7	5.4
MARAUDER	6.4	5.0	6.4	4.9	5.6	4.5	4.5	5.4	3.8	6.9	5.3
ANNIHILATOR	6.5	5.1	6.5	4.5	5.6	4.6	4.6	5.2	3.8	7.0	5.3
FRONTLINE (EXP TF-09)	5.9	4.5	7.1	4.8	5.7	5.3	4.6	5.1	2.8	7.1	5.3
AQUADUCT	6.3	4.5	6.0	5.0	5.7	5.6	4.4	5.6	2.8	6.9	5.3
JS 825	5.7	5.4	6.3	5.0	6.0	5.3	4.6	4.4	2.8	7.0	5.2
WARHAWK	6.4	5.4	6.3	4.3	5.7	4.5	4.4	4.7	3.2	7.1	5.2
BAR FA 120878	5.3	5.2	5.9	3.2	5.3	5.2	4.2	2.2	1.8	6.8	4.5
KY-31	4.6	4.0	4.9	2.6	4.3	5.3	3.2	1.0	1.1	5.7	3.7
LSD VALUE	0.6	0.7	0.8	0.7	0.8	0.9	0.5	1.1	0.9	0.5	0.2
C.V. (%)	5.7	8.6	7.1	6.9	7.8	9.9	5.7	9.9	10.1	4.1	7.8

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.

* 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 6. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT SIX LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE B" *
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	CT1	IL1	IN1	KY1	MO1	VA1	MEAN
MET 1	7.4	6.1	7.3	7.4	5.3	7.6	6.9
AMITY (CCR2)	6.9	6.7	7.3	7.5	5.1	7.3	6.8
4TH MILLENNIUM SRP (U43)	7.2	6.2	7.3	7.2	4.9	7.5	6.7
THOR (PPG-TF-157)	7.3	6.3	7.0	7.3	5.8	6.7	6.7
TRAVERSE 2 SRP (W45)	6.9	6.3	6.9	7.5	5.5	7.2	6.7
PSG-P01	7.4	6.4	7.0	7.3	5.0	7.0	6.7
PPG-TF-169	6.3	6.3	7.2	7.4	5.1	7.8	6.7
HEMI	6.8	6.1	7.1	7.1	5.5	7.3	6.7
IS-TF 311	6.9	6.3	7.2	7.2	5.3	6.9	6.7
RAPTOR III (ZW 44)	6.7	6.1	7.3	7.3	5.0	7.3	6.6
F711	6.8	5.9	7.1	7.0	5.1	7.8	6.6
REGENERATE	7.2	6.6	7.3	7.2	4.7	6.7	6.6
TITANIUM 2LS (PPG-TF-152)	6.9	6.2	7.0	7.2	5.3	7.1	6.6
REFLECTION (U45)	7.6	6.1	7.2	7.2	4.9	6.7	6.6
MAESTRO (T31)	6.8	6.2	7.2	7.5	5.0	6.9	6.6
PARAMOUNT (PPG-TF-137)	6.4	6.3	7.4	7.5	4.5	7.5	6.6
RHIZING MOON (IS-TF 305 SEL)	6.6	6.6	6.9	7.1	5.8	6.5	6.6
PPG-TF-135	7.2	6.0	7.1	7.0	5.4	6.9	6.6
SUPERSONIC (PPG-TF-170)	7.0	6.1	7.0	7.2	4.6	7.4	6.6
W41	6.8	6.3	7.1	7.1	4.8	7.3	6.6
REBOUNDER (PICK-W43)	7.4	6.3	6.9	7.2	4.6	6.9	6.5
GRANDE 3	6.3	6.2	7.0	6.9	5.6	7.3	6.5
ROCKWELL (LTP-TWUU)	6.9	6.1	7.0	7.0	4.9	7.4	6.5
PPG-TF-138	7.0	6.2	7.0	7.0	5.1	7.0	6.5
AVENGER II (PPG-TF-156)	6.6	6.2	7.4	7.3	4.7	6.9	6.5
HOT ROD (BURL TF-136)	6.8	6.5	7.1	7.3	4.4	7.0	6.5
ROWDY (SRX-TPC)	6.9	6.3	7.0	7.0	4.8	6.9	6.5
VALKYRIE LS (PPG-TF-172)	7.2	6.0	7.0	7.1	4.4	7.3	6.5
TRINITY (BIZEM)	7.0	6.1	7.0	7.2	4.8	6.8	6.5
MET-3	6.6	6.4	7.1	6.9	4.8	7.2	6.5
BLACK TAIL (PPG-TF-150)	7.1	6.6	7.0	7.2	4.0	7.0	6.5
DIABLO (IS-TF 330)	6.7	6.4	7.0	6.8	5.1	6.9	6.5
GTO (BURL TF-2)	6.7	6.1	6.9	7.0	5.3	6.8	6.5
LEONARDO (LTP-FSD)	6.9	6.2	7.0	7.0	4.9	6.7	6.5
FAITH	6.8	6.4	6.5	7.2	5.0	6.7	6.4
JS 916	6.2	6.2	7.0	7.0	5.1	7.2	6.4
FIREWALL (PSG-WE1)	7.0	6.0	6.7	7.2	5.0	6.8	6.4
CROSSFIRE 4 (IS-TF 310 SEL)	7.2	6.2	6.8	7.1	4.6	6.7	6.4
HOUSDOG8 (IS-TF 307 SEL)	6.6	6.3	7.0	7.0	4.8	6.9	6.4
TRENDING (IS-TF 269 SEL)	6.5	6.4	7.1	6.9	5.2	6.5	6.4
BLOODHOUND (MET 6 SEL)	6.8	6.0	7.0	7.0	4.8	6.9	6.4
SCREAMER LS (PPG-TF-148)	6.7	5.8	7.2	7.0	4.8	7.0	6.4
TEMPLE (DZ1)	6.3	6.1	7.0	7.0	5.0	7.1	6.4
ATF 1704	6.3	6.6	6.9	6.9	4.4	7.4	6.4

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT SIX LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE B" *
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	CT1	IL1	IN1	KY1	MO1	VA1	MEAN
MICHELANGELO (LTP-F5DPDR)	7.2	6.0	7.0	7.0	4.7	6.5	6.4
WICHITA (PPG-TF-151)	7.1	5.9	6.8	7.0	4.8	6.9	6.4
EMBRACE (PST-5EV2)	6.7	6.0	7.0	7.0	4.6	7.1	6.4
FIREBIRD 2	6.6	5.8	7.1	7.3	4.5	7.0	6.4
TECHNIQUE (RZ2)	6.6	6.1	7.0	7.0	4.2	7.4	6.4
PST-5BPO	6.5	5.7	7.1	6.9	5.1	7.0	6.4
BULLSEYE	7.1	6.2	6.5	6.9	5.2	6.5	6.4
STANDOUT (IS-TF 308 SEL)	6.7	6.1	7.0	7.2	4.7	6.6	6.4
FIRECRACKER SLS (PPG-TF-105)	7.3	6.3	7.0	7.0	4.2	6.4	6.4
FESNOVA	6.6	6.9	6.8	6.8	4.5	6.6	6.4
IS-TF 276 M2	6.5	6.0	6.7	6.9	5.5	6.6	6.4
HOVER (BURL TF-69)	6.4	6.2	6.8	7.1	4.8	6.8	6.3
PPG-TF-115	6.9	5.8	6.9	7.2	4.3	7.0	6.3
SALTILLO (PST-5SALT)	6.1	6.2	7.1	6.8	4.5	7.3	6.3
PST-5BRK	6.5	6.0	7.0	6.9	4.3	7.1	6.3
THUNDERSTRUCK (TD1)	6.7	6.5	6.8	7.1	4.3	6.5	6.3
FOXHOUND (IS-TF 284 M2)	6.8	6.8	6.6	7.0	4.3	6.4	6.3
RAD-TF-89	6.3	6.1	6.6	7.1	4.6	7.1	6.3
VERT (ATF 1612)	6.7	6.3	7.0	7.0	4.5	6.2	6.3
XTENDER (PPG-TF-139)	6.6	6.1	6.8	6.8	4.3	7.0	6.3
TURFWAY (IS-TF 282 M2)	6.5	6.3	6.8	7.0	4.3	6.7	6.3
CATALYST	6.8	5.6	7.0	6.6	4.6	7.0	6.3
PST-5MVD	6.5	6.4	7.0	6.7	4.4	6.7	6.3
FAYETTE (IS-TF 291)	6.8	6.0	6.8	6.9	4.0	6.9	6.2
OLYMPUS (RAD-TF-88)	6.4	6.4	6.6	7.0	4.4	6.6	6.2
IS-TF-287	6.7	6.1	6.5	6.9	4.2	6.9	6.2
REBEL V (ATF 1736)	6.5	6.0	6.8	7.0	4.2	6.8	6.2
K12-05	6.3	6.1	6.7	6.7	4.9	6.6	6.2
NIGHTCRAWLER (IS-TF 285)	6.4	6.3	7.1	6.8	3.8	6.8	6.2
ATF 1754	5.7	6.5	7.0	7.0	4.4	6.7	6.2
RHAMBLER 2 SRP (LSD)	6.8	5.9	6.6	6.7	4.9	6.3	6.2
DYNAMITE LS (PPG-TF-145)	6.3	6.0	6.8	6.9	4.7	6.5	6.2
MERIDIAN (PST-5GRB)	5.7	6.1	7.0	6.9	4.8	6.7	6.2
K12-MCD	6.5	6.1	7.0	6.7	4.4	6.3	6.2
IS-TF 272	6.5	6.7	6.7	6.8	4.3	6.0	6.2
PSG-TT4	6.3	5.8	7.0	6.8	4.6	6.5	6.2
ARES (PPG-TF-142)	6.3	6.2	6.7	6.8	5.1	6.0	6.2
CAESAR (TY 10)	6.1	6.5	6.6	6.8	4.6	6.4	6.2
KINGDOM (DB1)	6.4	6.5	6.7	7.1	3.9	6.4	6.2
B23	6.8	5.9	7.1	7.0	4.3	5.9	6.2
FALCON V	6.3	6.1	6.7	6.7	4.5	6.7	6.2
TEMPTATION (OR-21)	5.6	6.2	6.6	6.9	5.5	6.0	6.2
RAD-TF-92	5.8	6.1	6.7	6.7	4.7	6.8	6.1
PST-5EX2	6.1	5.5	6.6	6.9	4.5	7.2	6.1
SWAGGER (PST-5R05)	6.3	5.9	6.7	6.6	4.8	6.5	6.1

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT SIX LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE B" *
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	CT1	IL1	IN1	KY1	MO1	VA1	MEAN
UNITUS (IS-TF 289)	6.5	6.1	7.0	7.0	4.0	5.9	6.1
JS 819	6.0	6.4	6.7	6.6	4.7	6.1	6.1
MEMPHIS (GO-DFR)	6.1	6.0	6.8	6.7	4.3	6.5	6.1
RAD-TF-83	5.9	6.1	6.6	7.0	4.4	6.3	6.0
JS 818	6.3	6.2	6.5	6.9	4.0	6.2	6.0
PST-5DZP	6.0	5.9	7.3	6.8	4.0	6.2	6.0
INSPIRATION (PST-R5NW)	5.8	5.9	6.5	6.6	4.7	6.5	6.0
FALCON IV	6.8	5.7	6.8	6.5	4.5	5.7	6.0
TERRANO	6.4	5.6	6.5	6.6	4.2	6.3	5.9
PSG-GSD	6.8	5.8	6.8	6.4	4.1	5.8	5.9
PSG-8BP2	6.3	5.8	6.7	6.6	4.5	5.7	5.9
JS 809	6.1	5.9	6.4	6.6	4.5	6.0	5.9
BAR FA 121095	5.7	5.9	6.6	6.8	4.4	5.9	5.9
204 RES. BLK4	5.2	6.2	6.3	6.8	4.5	6.2	5.9
RAIN DANCE (PST-5SDT)	5.7	5.6	6.4	6.5	4.7	6.2	5.9
BAR FA 121089	5.7	6.1	6.4	6.6	3.7	6.3	5.8
ANNIHILATOR	5.5	6.1	6.1	6.5	4.6	5.9	5.8
BAR FA 121091	5.6	6.2	6.1	6.7	4.1	6.1	5.8
K12-13	5.4	5.8	6.5	6.9	4.0	6.1	5.8
COMP. RES. SST	5.1	6.2	6.5	6.5	4.3	5.9	5.8
MARAUDER	5.1	6.2	6.5	6.5	4.2	6.1	5.8
AQUADUCT	5.4	5.5	6.7	6.4	4.1	6.5	5.7
FRONTLINE (EXP TF-09)	5.8	5.8	6.4	6.7	3.8	5.7	5.7
JS 825	5.5	5.4	6.1	6.4	4.1	6.7	5.7
WARHAWK	5.1	5.7	6.0	6.4	4.0	5.5	5.4
BAR FA 120878	4.9	4.9	6.3	6.0	4.1	6.3	5.4
KY-31	3.4	3.2	4.0	4.3	3.0	5.6	3.9
LSD VALUE	0.9	0.7	0.4	0.4	1.0	0.7	0.3
C.V. (%)	8.8	7.0	4.0	3.5	13.7	7.0	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.

*/ 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

Taken from 2012 Tall Fescue test - 2017 data report with permission from NTEP

TABLE 7.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT THREE LOCATIONS 1/
IN THE NORTHEAST REGION
2017 DATA

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

NAME	CT1	NJ1	NJ2	MEAN	NAME	CT1	NJ1	NJ2	MEAN
REGENERATE	7.2	8.4	7.3	7.6	IS-TF 311	6.9	7.2	5.8	6.6
REFLECTION (U45)	7.6	8.5	6.5	7.5	TRENDING (IS-TF 269 SEL)	6.5	7.5	5.8	6.6
4TH MILLENNIUM SRP (U43)	7.2	8.5	6.7	7.5	GRANDE 3	6.3	7.3	6.3	6.6
MET 1	7.4	8.0	7.0	7.5	BLOODHOUND (MET 6 SEL)	6.8	7.2	5.8	6.6
THOR (PPG-TF-157)	7.3	7.7	7.3	7.4	MICHELANGELO (LTP-F5DPDR)	7.2	6.8	5.8	6.6
TITANIUM 2LS (PPG-TF-152)	6.9	8.4	6.8	7.4	JS 916	6.2	8.0	5.6	6.6
FIRECRACKER SLS (PPG-TF-105)	7.3	7.9	6.7	7.3	FOXHOUND (IS-TF 284 M2)	6.8	7.0	5.8	6.6
AMITY (CCR2)	6.9	8.0	6.8	7.2	MERIDIAN (PST-5GRB)	5.7	8.0	5.9	6.5
REBOUNDER (PICK-W43)	7.4	7.9	6.3	7.2	TEMPLE (DZ1)	6.3	7.5	5.9	6.5
TRINITY (BIZEM)	7.0	8.4	6.2	7.2	ATF 1704	6.3	7.4	5.9	6.5
BLACK TAIL (PPG-TF-150)	7.1	8.4	6.0	7.1	OLYMPUS (RAD-TF-88)	6.4	6.8	6.2	6.5
VALKYRIE LS (PPG-TF-172)	7.2	8.0	6.3	7.1	BULLSEYE	7.1	7.6	4.8	6.5
CROSSFIRE 4 (IS-TF 310 SEL)	7.2	8.0	6.2	7.1	PPG-TF-169	6.3	7.2	5.8	6.5
TRAVERSE 2 SRP (W45)	6.9	8.2	6.3	7.1	FALCON V	6.3	7.3	5.7	6.4
AVENGER II (PPG-TF-156)	6.6	8.0	6.7	7.1	TURFWAY (IS-TF 282 M2)	6.5	7.2	5.5	6.4
RAPTOR III (ZW 44)	6.7	8.2	6.2	7.1	CATALYST	6.8	7.7	4.7	6.4
SCREAMER LS (PPG-TF-148)	6.7	8.0	6.5	7.1	RAD-TF-92	5.8	7.7	5.7	6.4
PPG-TF-135	7.2	7.5	6.5	7.0	HOUND0G8 (IS-TF 307 SEL)	6.6	7.6	4.9	6.4
ROWDY (SRX-TPC)	6.9	8.0	6.1	7.0	LEONARDO (LTP-FSD)	6.9	6.6	5.6	6.4
PARAMOUNT (PPG-TF-137)	6.4	8.0	6.5	7.0	RHIZING MOON (IS-TF 305 SEL)	6.6	7.1	5.4	6.4
STANDOUT (IS-TF 308 SEL)	6.7	8.0	6.3	7.0	PPG-TF-115	6.9	6.5	5.6	6.3
SUPERSONIC (PPG-TF-170)	7.0	7.3	6.5	6.9	NIGHTCRAWLER (IS-TF 285)	6.4	7.7	4.9	6.3
B23	6.8	8.0	5.8	6.9	FAITH	6.8	6.4	5.8	6.3
PSG-P01	7.4	7.3	5.8	6.9	DIABLO (IS-TF 330)	6.7	7.0	5.1	6.3
FAYETTE (IS-TF 291)	6.8	7.7	6.0	6.8	K12-05	6.3	7.0	5.6	6.3
HOT ROD (BURL TF-136)	6.8	7.4	6.3	6.8	RAD-TF-89	6.3	7.1	5.5	6.3
VERT (ATF 1612)	6.7	7.7	6.2	6.8	IS-TF 272	6.5	7.0	5.3	6.2
ROCKWELL (LTP-TWUU)	6.9	7.4	6.1	6.8	PST-5BPO	6.5	6.7	5.4	6.2
GTO (BURL TF-2)	6.7	7.3	6.5	6.8	REBEL V (ATF 1736)	6.5	6.8	5.0	6.1
WICHITA (PPG-TF-151)	7.1	7.5	5.8	6.8	SALTILLO (PST-5SALT)	6.1	7.0	5.1	6.1
IS-TF-287	6.7	7.7	5.9	6.8	KINGDOM (DB1)	6.4	7.1	4.8	6.1
F711	6.8	8.0	5.5	6.8	DYNAMITE LS (PPG-TF-145)	6.3	7.1	4.8	6.0
W41	6.8	7.9	5.5	6.8	THUNDERSTRUCK (TD1)	6.7	6.0	5.4	6.0
TECHNIQUE (RZ2)	6.6	7.9	5.8	6.8	ATF 1754	5.7	7.0	5.3	6.0
EMBRACE (PST-5EV2)	6.7	7.8	5.7	6.7	K12-MCD	6.5	6.5	5.0	6.0
FIREWALL (PSG-WE1)	7.0	7.0	6.3	6.7	IS-TF 276 M2	6.5	6.6	4.9	6.0
FIREBIRD 2	6.6	7.6	6.0	6.7	PST-5MVD	6.5	6.3	4.9	5.9
HEMI	6.8	7.2	6.1	6.7	ARES (PPG-TF-142)	6.3	7.3	3.9	5.8
RHAMBLER 2 SRP (LSD)	6.8	8.1	5.2	6.7	FESNOVA	6.6	6.5	4.3	5.8
XTENDER (PPG-TF-139)	6.6	7.5	6.0	6.7	PST-5BRK	6.5	6.3	4.6	5.8
HOVER (BURL TF-69)	6.4	7.4	6.3	6.7	204 RES. BLK4	5.2	7.5	4.7	5.8
MET-3	6.6	7.5	6.0	6.7	UNITUS (IS-TF 289)	6.5	6.0	4.5	5.7
PPG-TF-138	7.0	7.1	5.8	6.6	JS 818	6.3	6.5	4.2	5.7
MAESTRO (T31)	6.8	7.0	6.0	6.6	MEMPHIS (GO-DFR)	6.1	6.5	4.3	5.6
					PSG-GSD	6.8	6.5	3.6	5.6

TABLE 7. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT THREE LOCATIONS 1/
IN THE NORTHEAST REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	CT1	NJ1	NJ2	MEAN
PST-5DZP	6.0	6.7	4.2	5.6
RAD-TF-83	5.9	5.6	5.4	5.6
TERRANO	6.4	6.5	3.9	5.6
CAESAR (TY 10)	6.1	6.5	4.2	5.6
BAR FA 121095	5.7	5.9	5.0	5.5
SWAGGER (PST-5R05)	6.3	6.2	3.9	5.5
K12-13	5.4	7.0	3.9	5.5
PSG-8BP2	6.3	5.4	4.3	5.4
PSG-TT4	6.3	5.3	4.4	5.3
PST-5EX2	6.1	5.5	4.2	5.3
FALCON IV	6.8	5.7	3.3	5.2
RAIN DANCE (PST-5SDT)	5.7	5.6	4.4	5.2
JS 809	6.1	6.2	3.5	5.2
BAR FA 121089	5.7	5.3	4.5	5.2
JS 819	6.0	5.5	4.0	5.2
TEMPTATION (OR-21)	5.6	5.9	3.9	5.1
COMP. RES. SST	5.1	6.1	4.2	5.1
INSPIRATION (PST-R5NW)	5.8	5.5	3.8	5.0
ANNIHILATOR	5.5	5.2	3.8	4.8
MARAUDER	5.1	5.4	3.8	4.8
BAR FA 121091	5.6	5.0	3.7	4.8
AQUADUCT	5.4	5.6	2.8	4.6
FRONTLINE (EXP TF-09)	5.8	5.1	2.8	4.6
WARHAWK	5.1	4.7	3.2	4.3
JS 825	5.5	4.4	2.8	4.2
BAR FA 120878	4.9	2.2	1.8	3.0
KY-31	3.4	1.0	1.1	1.8
LSD VALUE	0.9	1.1	0.9	0.6
C.V. (%)	8.8	9.9	10.1	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 8. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT SIX LOCATIONS 1/
IN THE TRANSITION REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	KY1	MD1	MO1	NC1	TN1	VA1	MEAN
TRAVERSE 2 SRP (W45)	7.5	7.3	5.5	6.4	7.3	7.2	6.9
RAPTOR III (ZW 44)	7.3	7.2	5.0	6.9	7.4	7.3	6.8
MET 1	7.4	6.9	5.3	6.7	7.1	7.6	6.8
4TH MILLENNIUM SRP (U43)	7.2	7.2	4.9	6.9	7.3	7.5	6.8
AMITY (CCR2)	7.5	7.1	5.1	6.6	7.3	7.3	6.8
F711	7.0	6.9	5.1	6.7	7.4	7.8	6.8
THOR (PPG-TF-157)	7.3	6.9	5.8	6.2	7.3	6.7	6.7
MAESTRO (T31)	7.5	7.3	5.0	6.2	7.2	6.9	6.7
PARAMOUNT (PPG-TF-137)	7.5	7.0	4.5	6.2	7.2	7.5	6.7
REGENERATE	7.2	7.5	4.7	6.5	7.2	6.7	6.6
SUPERSONIC (PPG-TF-170)	7.2	7.2	4.6	6.3	7.1	7.4	6.6
GRANDE 3	6.9	6.6	5.6	6.2	7.0	7.3	6.6
PPG-TF-135	7.0	6.8	5.4	6.6	6.9	6.9	6.6
AVENGER II (PPG-TF-156)	7.3	7.2	4.7	6.3	7.1	6.9	6.6
ROCKWELL (LTP-TWUU)	7.0	6.8	4.9	6.1	7.3	7.4	6.6
TITANIUM 2LS (PPG-TF-152)	7.2	6.8	5.3	5.9	7.2	7.1	6.6
ROWDY (SRX-TPC)	7.0	6.7	4.8	6.8	7.1	6.9	6.5
PPG-TF-169	7.4	6.4	5.1	5.6	7.0	7.8	6.5
IS-TF 311	7.2	6.5	5.3	6.0	7.3	6.9	6.5
TECHNIQUE (RZ2)	7.0	7.4	4.2	6.4	6.9	7.4	6.5
GTO (BURL TF-2)	7.0	6.9	5.3	5.9	7.3	6.8	6.5
JS 916	7.0	6.6	5.1	6.0	7.2	7.2	6.5
VALKYRIE LS (PPG-TF-172)	7.1	6.7	4.4	6.6	7.1	7.3	6.5
TRINITY (BIZEM)	7.2	6.8	4.8	6.3	7.3	6.8	6.5
W41	7.1	6.7	4.8	6.1	7.1	7.3	6.5
REBOUNDER (PICK-W43)	7.2	7.3	4.6	5.7	7.4	6.9	6.5
RHIZING MOON (IS-TF 305 SEL)	7.1	6.6	5.8	5.7	7.3	6.5	6.5
REFLECTION (U45)	7.2	7.3	4.9	5.8	7.1	6.7	6.5
WICHITA (PPG-TF-151)	7.0	6.7	4.8	6.4	7.1	6.9	6.5
HEMI	7.1	6.8	5.5	5.2	7.0	7.3	6.5
HOT ROD (BURL TF-136)	7.3	7.2	4.4	5.6	7.2	7.0	6.5
LEONARDO (LTP-FSD)	7.0	6.5	4.9	6.5	7.1	6.7	6.5
DIABLO (IS-TF 330)	6.8	6.4	5.1	6.2	7.3	6.9	6.4
PST-5BPO	6.9	6.1	5.1	6.6	7.0	7.0	6.4
PPG-TF-138	7.0	6.7	5.1	5.8	7.1	7.0	6.4
SCREAMER LS (PPG-TF-148)	7.0	6.5	4.8	6.1	7.1	7.0	6.4
EMBRACE (PST-5EV2)	7.0	6.3	4.6	6.4	7.1	7.1	6.4
FIREWALL (PSG-WE1)	7.2	7.2	5.0	5.5	6.9	6.8	6.4
SALTILLO (PST-5SALT)	6.8	6.3	4.5	6.5	7.2	7.3	6.4
STANDOUT (IS-TF 308 SEL)	7.2	6.8	4.7	6.1	7.2	6.6	6.4
MICHELANGELO (LTP-F5DPDR)	7.0	6.5	4.7	6.6	7.2	6.5	6.4
FAITH	7.2	6.2	5.0	6.2	7.1	6.7	6.4
ATF 1704	6.9	6.4	4.4	6.1	7.2	7.4	6.4
MET-3	6.9	6.7	4.8	5.7	7.0	7.2	6.4

TABLE 8. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT SIX LOCATIONS 1/
IN THE TRANSITION REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	KY1	MD1	MO1	NC1	TN1	VA1	MEAN
HOUNDOG8 (IS-TF 307 SEL)	7.0	6.7	4.8	5.8	7.2	6.9	6.4
BLOODHOUND (MET 6 SEL)	7.0	6.6	4.8	6.1	6.9	6.9	6.4
PSG-P01	7.3	6.8	5.0	5.4	6.8	7.0	6.4
TEMPLE (DZ1)	7.0	6.9	5.0	5.2	7.0	7.1	6.4
FIREBIRD 2	7.3	6.8	4.5	5.7	6.8	7.0	6.4
BLACK TAIL (PPG-TF-150)	7.2	6.5	4.0	6.1	7.2	7.0	6.3
ATF 1754	7.0	6.5	4.4	6.4	7.2	6.7	6.3
PST-5BRK	6.9	6.5	4.3	6.3	6.9	7.1	6.3
TRENDING (IS-TF 269 SEL)	6.9	6.4	5.2	5.8	7.3	6.5	6.3
PST-5EX2	6.9	6.0	4.5	6.9	6.5	7.2	6.3
TURFWAY (IS-TF 282 M2)	7.0	6.5	4.3	5.9	7.4	6.7	6.3
RHAMBLER 2 SRP (LSD)	6.7	6.7	4.9	6.0	7.2	6.3	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	7.1	6.5	4.6	5.5	7.2	6.7	6.3
VERT (ATF 1612)	7.0	6.7	4.5	6.3	7.1	6.2	6.3
PPG-TF-115	7.2	6.0	4.3	6.1	7.1	7.0	6.3
RAD-TF-89	7.1	6.4	4.6	5.5	6.8	7.1	6.3
IS-TF 276 M2	6.9	6.2	5.5	5.5	6.8	6.6	6.2
FESNOVA	6.8	6.3	4.5	6.0	7.2	6.6	6.2
BULLSEYE	6.9	5.9	5.2	5.9	7.0	6.5	6.2
XTENDER (PPG-TF-139)	6.8	6.4	4.3	5.7	7.1	7.0	6.2
HOVER (BURL TF-69)	7.1	6.6	4.8	5.1	6.9	6.8	6.2
REBEL V (ATF 1736)	7.0	6.3	4.2	6.0	7.0	6.8	6.2
FIRECRACKER SLS (PPG-TF-105)	7.0	6.4	4.2	5.9	7.3	6.4	6.2
FOXHOUND (IS-TF 284 M2)	7.0	6.5	4.3	5.4	7.6	6.4	6.2
TEMPTATION (OR-21)	6.9	5.8	5.5	5.8	7.0	6.0	6.2
KINGDOM (DB1)	7.1	6.4	3.9	6.2	7.0	6.4	6.2
FAYETTE (IS-TF 291)	6.9	6.3	4.0	5.6	7.3	6.9	6.2
THUNDERSTRUCK (TD1)	7.1	6.3	4.3	5.5	7.2	6.5	6.2
MERIDIAN (PST-5GRB)	6.9	6.1	4.8	5.4	6.9	6.7	6.1
CAESAR (TY 10)	6.8	6.1	4.6	5.5	7.3	6.4	6.1
K12-05	6.7	6.2	4.9	5.2	7.3	6.6	6.1
B23	7.0	6.7	4.3	5.6	7.2	5.9	6.1
K12-MCD	6.7	5.8	4.4	6.2	7.0	6.3	6.1
IS-TF-287	6.9	6.0	4.2	5.3	7.2	6.9	6.1
PSG-TT4	6.8	5.5	4.6	5.8	6.9	6.5	6.0
RAD-TF-92	6.7	6.4	4.7	4.8	6.7	6.8	6.0
PST-5MVD	6.7	5.8	4.4	5.7	7.0	6.7	6.0
MEMPHIS (GO-DFR)	6.7	5.8	4.3	5.5	7.2	6.5	6.0
SWAGGER (PST-5R05)	6.6	5.3	4.8	5.9	7.0	6.5	6.0
OLYMPUS (RAD-TF-88)	7.0	5.8	4.4	5.1	7.0	6.6	6.0
NIGHTCRAWLER (IS-TF 285)	6.8	6.0	3.8	5.4	7.1	6.8	6.0
TERRANO	6.6	5.4	4.2	6.2	7.2	6.3	6.0
CATALYST	6.6	5.5	4.6	5.2	6.9	7.0	6.0
IS-TF 272	6.8	6.3	4.3	5.2	7.2	6.0	6.0
UNITUS (IS-TF 289)	7.0	6.1	4.0	5.6	6.9	5.9	5.9

TABLE 8. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT SIX LOCATIONS 1/
IN THE TRANSITION REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	KY1	MD1	MO1	NC1	TN1	VA1	MEAN
FALCON V	6.7	5.6	4.5	5.4	6.7	6.7	5.9
JS 818	6.9	6.0	4.0	5.3	6.9	6.2	5.9
DYNAMITE LS (PPG-TF-145)	6.9	5.3	4.7	4.9	7.1	6.5	5.9
RAIN DANCE (PST-5SDT)	6.5	4.7	4.7	6.3	6.9	6.2	5.9
INSPIRATION (PST-R5NW)	6.6	5.1	4.7	5.6	6.7	6.5	5.9
ARES (PPG-TF-142)	6.8	5.2	5.1	5.2	7.1	6.0	5.9
RAD-TF-83	7.0	5.8	4.4	5.1	6.7	6.3	5.9
JS 819	6.6	5.2	4.7	5.5	7.0	6.1	5.8
K12-13	6.9	5.7	4.0	5.0	7.1	6.1	5.8
204 RES. BLK4	6.8	5.3	4.5	4.6	7.3	6.2	5.8
JS 809	6.6	5.6	4.5	5.1	6.7	6.0	5.7
JS 825	6.4	5.0	4.1	5.3	7.0	6.7	5.7
AQUADUCT	6.4	5.0	4.1	5.6	6.9	6.5	5.7
PST-5DZP	6.8	5.5	4.0	5.2	6.6	6.2	5.7
PSG-8BP2	6.6	4.9	4.5	5.6	6.7	5.7	5.7
BAR FA 121091	6.7	5.1	4.1	5.2	6.7	6.1	5.7
BAR FA 121089	6.6	5.1	3.7	5.2	6.9	6.3	5.6
PSG-GSD	6.4	4.8	4.1	6.0	6.7	5.8	5.6
BAR FA 121095	6.8	4.9	4.4	5.0	6.6	5.9	5.6
COMP. RES. SST	6.5	5.5	4.3	4.4	6.8	5.9	5.6
FRONTLINE (EXP TF-09)	6.7	4.8	3.8	5.3	7.1	5.7	5.5
FALCON IV	6.5	5.3	4.5	4.6	6.7	5.7	5.5
ANNIHILATOR	6.5	4.5	4.6	4.6	7.0	5.9	5.5
MARAUDER	6.5	4.9	4.2	4.5	6.9	6.1	5.5
WARHAWK	6.4	4.3	4.0	4.5	7.1	5.5	5.3
BAR FA 120878	6.0	3.2	4.1	5.2	6.8	6.3	5.3
KY-31	4.3	2.6	3.0	5.3	5.7	5.6	4.4
LSD VALUE	0.4	0.7	1.0	0.9	0.5	0.7	0.3
C.V. (%)	3.5	6.9	13.7	9.9	4.1	7.0	7.4

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

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

TABLE 9. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWO LOCATIONS 1/
IN THE SOUTHEAST REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	GA1	MS1	MEAN	NAME	GA1	MS1	MEAN
FAYETTE (IS-TF 291)	5.6	6.7	6.2	IS-TF 272	5.4	6.2	5.8
CROSSFIRE 4 (IS-TF 310 SEL)	5.6	6.7	6.1	PSG-TT4	5.3	6.3	5.8
F711	5.8	6.5	6.1	AMITY (CCR2)	5.3	6.3	5.8
TRENDING (IS-TF 269 SEL)	5.6	6.7	6.1	K12-05	5.2	6.4	5.8
MICHELANGELO (LTP-F5DPDR)	5.8	6.5	6.1	W41	5.3	6.3	5.8
4TH MILLENNIUM SRP (U43)	5.5	6.8	6.1	ROCKWELL (LTP-TWUU)	5.3	6.3	5.8
REBEL V (ATF 1736)	6.0	6.3	6.1	ATF 1754	5.6	5.9	5.8
LEONARDO (LTP-FSD)	5.5	6.7	6.1	CAESAR (TY 10)	5.6	6.0	5.8
TEMPLE (DZ1)	5.4	6.7	6.1	XTENDER (PPG-TF-139)	5.3	6.2	5.8
PPG-TF-169	5.6	6.4	6.0	FESNOVA	5.3	6.2	5.8
THOR (PPG-TF-157)	5.6	6.5	6.0	SALTILLO (PST-5SALT)	5.2	6.3	5.8
GRANDE 3	5.5	6.5	6.0	DYNAMITE LS (PPG-TF-145)	5.6	5.9	5.7
PSG-P01	5.7	6.4	6.0	VERT (ATF 1612)	5.2	6.3	5.7
FOXHOUND (IS-TF 284 M2)	5.4	6.6	6.0	AVENGER II (PPG-TF-156)	5.5	6.0	5.7
MET 1	5.9	6.2	6.0	TRAVERSE 2 SRP (W45)	5.5	6.0	5.7
K12-MCD	5.5	6.5	6.0	RAD-TF-89	5.4	6.0	5.7
PST-5BPO	5.7	6.3	6.0	IS-TF 276 M2	5.4	6.0	5.7
REFLECTION (U45)	5.6	6.4	6.0	OLYMPUS (RAD-TF-88)	5.6	5.9	5.7
GTO (BURL TF-2)	5.7	6.3	6.0	SCREAMER LS (PPG-TF-148)	5.4	6.1	5.7
JS 916	5.5	6.5	6.0	FIREBIRD 2	5.3	6.1	5.7
TECHNIQUE (RZ2)	5.4	6.6	6.0	MEMPHIS (GO-DFR)	5.3	6.1	5.7
TITANIUM 2LS (PPG-TF-152)	5.8	6.1	6.0	PPG-TF-115	5.3	6.0	5.7
BAR FA 121095	5.5	6.4	6.0	JS 825	5.4	6.0	5.7
BLACK TAIL (PPG-TF-150)	5.5	6.4	6.0	KINGDOM (DB1)	5.0	6.3	5.7
VALKYRIE LS (PPG-TF-172)	5.3	6.6	5.9	ROWDY (SRX-TPC)	5.0	6.3	5.7
REBOUNDER (PICK-W43)	5.2	6.6	5.9	RAD-TF-83	5.1	6.3	5.7
SUPERSONIC (PPG-TF-170)	5.4	6.4	5.9	BAR FA 121089	5.1	6.2	5.7
TURFWAY (IS-TF 282 M2)	5.2	6.6	5.9	FIREWALL (PSG-WE1)	5.2	6.1	5.6
MAESTRO (T31)	5.6	6.2	5.9	PST-5BRK	5.4	5.8	5.6
RHIZING MOON (IS-TF 305 SEL)	5.6	6.2	5.9	JS 809	5.5	5.8	5.6
EMBRACE (PST-5EV2)	5.6	6.2	5.9	BULLSEYE	5.5	5.7	5.6
REGENERATE	5.6	6.2	5.9	FIRECRACKER SLS (PPG-TF-105)	5.0	6.2	5.6
PARAMOUNT (PPG-TF-137)	5.5	6.3	5.9	STANDOUT (IS-TF 308 SEL)	5.4	5.9	5.6
TRINITY (BIZEM)	5.6	6.1	5.9	PST-5DZP	5.5	5.7	5.6
HEMI	5.6	6.1	5.9	INSPIRATION (PST-R5NW)	5.3	5.9	5.6
ATF 1704	5.5	6.2	5.8	MET-3	5.2	6.0	5.6
PPG-TF-135	5.6	6.1	5.8	MERIDIAN (PST-5GRB)	5.1	6.0	5.6
RAD-TF-92	5.3	6.3	5.8	HOT ROD (BURL TF-136)	5.1	6.0	5.6
RAPTOR III (ZW 44)	5.2	6.4	5.8	THUNDERSTRUCK (TD1)	5.1	6.1	5.6
IS-TF 311	5.3	6.3	5.8	RAIN DANCE (PST-5SDT)	5.3	5.9	5.6
PST-5EX2	5.3	6.3	5.8	BAR FA 121091	5.0	6.1	5.6
WICHITA (PPG-TF-151)	5.4	6.3	5.8	PST-5MVD	5.2	5.9	5.5
FAITH	5.7	5.9	5.8	BLOODHOUND (MET 6 SEL)	5.2	5.9	5.5
UNITUS (IS-TF 289)	5.6	6.0	5.8	DIABLO (IS-TF 330)	5.2	5.9	5.5
				PSG-GSD	5.4	5.7	5.5

TABLE 9. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT TWO LOCATIONS 1/
IN THE SOUTHEAST REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	GA1	MS1	MEAN
K12-13	5.4	5.7	5.5
PSG-8BP2	5.1	5.9	5.5
TEMPTATION (OR-21)	5.1	5.9	5.5
WARHAWK	5.4	5.7	5.5
TERRANO	5.5	5.6	5.5
FALCON IV	4.9	6.1	5.5
B23	5.3	5.7	5.5
IS-TF-287	5.1	5.9	5.5
HOVER (BURL TF-69)	4.9	6.1	5.5
204 RES. BLK4	5.4	5.6	5.5
HOUNDOG8 (IS-TF 307 SEL)	5.4	5.6	5.5
COMP. RES. SST	5.3	5.6	5.4
ARES (PPG-TF-142)	5.1	5.7	5.4
FALCON V	5.7	5.2	5.4
JS 819	5.4	5.5	5.4
SWAGGER (PST-5R05)	5.2	5.6	5.4
ANNIHILATOR	5.1	5.6	5.4
RHAMBLER 2 SRP (LSD)	5.1	5.6	5.3
MARAUDER	5.0	5.6	5.3
BAR FA 120878	5.2	5.3	5.2
CATALYST	4.8	5.7	5.2
JS 818	4.7	5.7	5.2
PPG-TF-138	4.9	5.3	5.1
FRONTLINE (EXP TF-09)	4.5	5.7	5.1
AQUADUCT	4.5	5.7	5.1
NIGHTCRAWLER (IS-TF 285)	5.2	4.8	5.0
KY-31	4.0	4.3	4.2
LSD VALUE	0.7	0.8	0.5
C.V. (%)	8.6	7.8	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 10. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FOUR LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	IA1	IL1	IN1	NE1	MEAN
REGENERATE	7.1	6.6	7.3	5.1	6.5
RAPTOR III (ZW 44)	7.1	6.1	7.3	5.5	6.5
W41	7.5	6.3	7.1	5.1	6.5
REFLECTION (U45)	7.3	6.1	7.2	5.3	6.5
F711	7.7	5.9	7.1	5.2	6.5
FIRECRACKER SLS (PPG-TF-105)	7.6	6.3	7.0	5.0	6.5
IS-TF 272	7.5	6.7	6.7	5.0	6.5
FOXHOUND (IS-TF 284 M2)	7.4	6.8	6.6	5.0	6.5
AMITY (CCR2)	6.6	6.7	7.3	5.2	6.5
TRENDING (IS-TF 269 SEL)	7.2	6.4	7.1	5.0	6.5
HOT ROD (BURL TF-136)	7.0	6.5	7.1	5.2	6.4
PARAMOUNT (PPG-TF-137)	7.2	6.3	7.4	4.9	6.4
4TH MILLENNIUM SRP (U43)	6.9	6.2	7.3	5.3	6.4
BLACK TAIL (PPG-TF-150)	7.0	6.6	7.0	5.1	6.4
THUNDERSTRUCK (TD1)	7.2	6.5	6.8	5.2	6.4
REBOUNDER (PICK-W43)	7.1	6.3	6.9	5.3	6.4
TECHNIQUE (RZ2)	7.4	6.1	7.0	5.1	6.4
PPG-TF-138	7.4	6.2	7.0	5.0	6.4
PPG-TF-169	6.9	6.3	7.2	5.1	6.4
AVENGER II (PPG-TF-156)	6.4	6.2	7.4	5.5	6.4
LEONARDO (LTP-FSD)	7.2	6.2	7.0	5.1	6.4
ROCKWELL (LTP-TWUU)	7.0	6.1	7.0	5.4	6.4
MET-3	7.0	6.4	7.1	5.0	6.4
BLOODHOUND (MET 6 SEL)	7.2	6.0	7.0	5.1	6.4
MET 1	6.8	6.1	7.3	5.3	6.4
PPG-TF-135	7.2	6.0	7.1	5.1	6.4
PSG-P01	7.1	6.4	7.0	4.9	6.3
TEMPLE (DZ1)	7.2	6.1	7.0	5.0	6.3
TRAVERSE 2 SRP (W45)	6.9	6.3	6.9	5.3	6.3
PST-5BRK	7.3	6.0	7.0	4.9	6.3
UNITUS (IS-TF 289)	7.3	6.1	7.0	4.8	6.3
VERT (ATF 1612)	6.6	6.3	7.0	5.3	6.3
GTO (BURL TF-2)	7.0	6.1	6.9	5.2	6.3
HOUNDOG8 (IS-TF 307 SEL)	7.0	6.3	7.0	4.8	6.3
ROWDY (SRX-TPC)	6.8	6.3	7.0	5.1	6.3
FESNOVA	6.8	6.9	6.8	4.8	6.3
B23	7.0	5.9	7.1	5.1	6.3
DIABLO (IS-TF 330)	7.0	6.4	7.0	4.9	6.3
IS-TF 311	6.4	6.3	7.2	5.2	6.3
THOR (PPG-TF-157)	6.7	6.3	7.0	5.2	6.3
TRINITY (BIZEM)	7.1	6.1	7.0	4.9	6.3
GRANDE 3	6.8	6.2	7.0	5.1	6.3
KINGDOM (DB1)	7.0	6.5	6.7	5.0	6.3
FAITH	7.1	6.4	6.5	5.1	6.3
HEMI	7.0	6.1	7.1	4.9	6.3

TABLE 10. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT FOUR LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	IA1	IL1	IN1	NE1	MEAN
RAD-TF-92	7.0	6.1	6.7	5.3	6.3
SALTILLO (PST-5SALT)	7.0	6.2	7.1	4.8	6.3
ATF 1754	6.6	6.5	7.0	5.0	6.3
NIGHTCRAWLER (IS-TF 285)	6.7	6.3	7.1	5.0	6.3
RHIZING MOON (IS-TF 305 SEL)	6.8	6.6	6.9	4.8	6.3
STANDOUT (IS-TF 308 SEL)	6.8	6.1	7.0	5.1	6.3
TURFWAY (IS-TF 282 M2)	7.0	6.3	6.8	4.9	6.3
MAESTRO (T31)	6.4	6.2	7.2	5.1	6.3
FIREBIRD 2	7.0	5.8	7.1	5.0	6.2
IS-TF 276 M2	7.4	6.0	6.7	4.9	6.2
TITANIUM 2LS (PPG-TF-152)	6.6	6.2	7.0	5.1	6.2
FAYETTE (IS-TF 291)	7.0	6.0	6.8	5.1	6.2
CAESAR (TY 10)	7.0	6.5	6.6	4.7	6.2
ATF 1704	6.4	6.6	6.9	5.0	6.2
HOVER (BURL TF-69)	6.7	6.2	6.8	5.2	6.2
XTENDER (PPG-TF-139)	6.8	6.1	6.8	5.2	6.2
JS 916	6.4	6.2	7.0	5.2	6.2
SUPERSONIC (PPG-TF-170)	6.5	6.1	7.0	5.2	6.2
EMBRACE (PST-5EV2)	7.1	6.0	7.0	4.8	6.2
WICHITA (PPG-TF-151)	7.1	5.9	6.8	5.0	6.2
MERIDIAN (PST-5GRB)	6.5	6.1	7.0	5.1	6.2
K12-MCD	6.7	6.1	7.0	4.8	6.2
RAD-TF-89	7.1	6.1	6.6	4.9	6.2
CROSSFIRE 4 (IS-TF 310 SEL)	6.6	6.2	6.8	5.1	6.2
VALKYRIE LS (PPG-TF-172)	6.6	6.0	7.0	5.0	6.2
JS 819	6.7	6.4	6.7	4.8	6.2
MEMPHIS (GO-DFR)	7.1	6.0	6.8	4.8	6.2
MICHELANGELO (LTP-F5DPDR)	6.8	6.0	7.0	4.9	6.2
OLYMPUS (RAD-TF-88)	6.7	6.4	6.6	5.0	6.2
PST-5MVD	6.6	6.4	7.0	4.7	6.2
CATALYST	7.0	5.6	7.0	5.0	6.2
ARES (PPG-TF-142)	6.7	6.2	6.7	5.0	6.1
DYNAMITE LS (PPG-TF-145)	7.0	6.0	6.8	4.7	6.1
JS 818	7.2	6.2	6.5	4.7	6.1
PST-5BPO	6.7	5.7	7.1	5.0	6.1
FALCON V	6.6	6.1	6.7	5.1	6.1
FIREWALL (PSG-WE1)	6.6	6.0	6.7	5.2	6.1
SCREAMER LS (PPG-TF-148)	6.5	5.8	7.2	5.0	6.1
IS-TF-287	6.7	6.1	6.5	5.0	6.1
PPG-TF-115	6.9	5.8	6.9	4.8	6.1
PST-5DZP	6.4	5.9	7.3	4.7	6.1
REBEL V (ATF 1736)	6.8	6.0	6.8	4.6	6.1
K12-05	6.4	6.1	6.7	5.0	6.1
RAD-TF-83	6.9	6.1	6.6	4.6	6.0

TABLE 10. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT FOUR LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	IA1	IL1	IN1	NE1	MEAN
BULLSEYE	6.5	6.2	6.5	4.9	6.0
PSG-GSD	6.8	5.8	6.8	4.7	6.0
RHAMBLER 2 SRP (LSD)	6.6	5.9	6.6	4.8	6.0
TEMPTATION (OR-21)	6.5	6.2	6.6	4.7	6.0
COMP. RES. SST	6.5	6.2	6.5	4.7	6.0
FRONTLINE (EXP TF-09)	7.1	5.8	6.4	4.6	6.0
BAR FA 121095	6.7	5.9	6.6	4.6	6.0
FALCON IV	6.4	5.7	6.8	4.9	6.0
INSPIRATION (PST-R5NW)	6.6	5.9	6.5	4.8	5.9
PSG-8BP2	6.6	5.8	6.7	4.7	5.9
PSG-TT4	6.4	5.8	7.0	4.6	5.9
PST-5EX2	6.8	5.5	6.6	4.8	5.9
SWAGGER (PST-5R05)	6.6	5.9	6.7	4.5	5.9
K12-13	6.7	5.8	6.5	4.7	5.9
MARAUDER	6.4	6.2	6.5	4.5	5.9
204 RES. BLK4	6.6	6.2	6.3	4.4	5.9
TERRANO	6.5	5.6	6.5	4.8	5.9
ANNIHILATOR	6.5	6.1	6.1	4.6	5.8
JS 809	6.4	5.9	6.4	4.6	5.8
BAR FA 121089	6.1	6.1	6.4	4.6	5.8
BAR FA 121091	6.6	6.2	6.1	4.4	5.8
RAIN DANCE (PST-5SDT)	6.6	5.6	6.4	4.7	5.8
AQUADUCT	6.0	5.5	6.7	4.4	5.6
WARHAWK	6.3	5.7	6.0	4.4	5.6
JS 825	6.3	5.4	6.1	4.6	5.6
BAR FA 120878	5.9	4.9	6.3	4.2	5.3
KY-31	4.9	3.2	4.0	3.2	3.8
LSD VALUE	0.8	0.7	0.4	0.5	0.3
C.V. (%)	7.1	7.0	4.0	5.7	6.1

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 11. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/ 2017 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
4TH MILLENNIUM SRP (U43)	6.7	6.7	7.0	6.7	6.7	7.0	7.0	7.7	7.3	7.7	7.7	7.7	7.1
PSG-P01	6.7	7.3	7.0	6.7	7.0	7.0	7.0	7.3	7.3	7.3	7.0	7.0	7.1
SCREAMER LS (PPG-TF-148)	7.0	7.3	7.0	7.0	7.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0
IS-TF 311	7.0	7.0	7.0	6.7	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.9
MAESTRO (T31)	7.7	7.0	7.0	6.7	6.7	6.3	7.0	7.0	7.0	7.0	7.0	6.7	6.9
REGENERATE	6.7	6.7	6.7	6.7	7.0	7.0	6.7	7.3	6.7	7.3	7.0	7.0	6.9
TECHNIQUE (RZ2)	6.7	6.7	7.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
AMITY (CCR2)	6.7	6.7	6.7	6.7	6.3	6.3	7.0	7.0	7.3	7.0	6.7	7.0	6.8
ROCKWELL (LTP-TWUU)	6.7	7.0	7.0	6.7	6.3	6.7	6.7	6.7	7.0	7.3	7.0	6.3	6.8
TERRANO	6.3	6.3	6.7	6.3	6.3	6.7	6.7	7.7	7.3	7.7	6.7	6.7	6.8
BLACK TAIL (PPG-TF-150)	6.7	6.7	6.7	6.3	7.0	6.3	6.7	6.7	6.7	7.0	7.0	7.0	6.7
FALCON V	7.0	7.0	6.3	6.0	6.7	6.7	6.3	6.7	7.0	7.0	6.7	7.0	6.7
TEMPLE (DZ1)	7.0	6.0	6.7	6.7	6.3	6.3	6.3	7.0	6.3	7.0	7.0	7.3	6.7
HOT ROD (BURL TF-136)	6.7	6.3	6.7	6.3	7.0	7.0	6.7	6.7	7.0	6.3	6.3	6.3	6.6
LEONARDO (LTP-FSD)	6.7	7.0	6.3	6.3	6.3	6.7	6.3	6.7	7.3	6.7	6.7	6.3	6.6
MET 1	6.7	7.0	7.0	6.3	6.7	6.3	6.3	6.7	6.7	6.7	6.7	6.3	6.6
FIRECRACKER SLS (PPG-TF-105)	6.7	6.7	6.7	6.7	6.3	6.7	6.7	6.7	6.7	6.7	6.7	6.3	6.6
SUPERSONIC (PPG-TF-170)	6.7	6.7	6.7	6.7	6.3	6.7	6.3	6.3	6.7	6.7	7.0	6.7	6.6
EMBRACE (PST-5EV2)	6.7	6.7	6.3	6.7	6.3	6.0	6.3	7.0	7.0	7.0	6.7	6.3	6.6
FALCON IV	6.3	6.7	6.3	6.3	6.3	6.0	6.3	6.7	6.7	7.3	7.0	7.0	6.6
GTO (BURL TF-2)	6.7	6.3	6.7	6.3	6.0	6.3	6.7	7.0	7.0	6.7	6.7	6.7	6.6
OLYMPUS (RAD-TF-88)	6.3	6.7	7.0	6.3	6.7	6.3	7.0	7.0	7.0	6.3	6.3	6.0	6.6
ROWDY (SRX-TPC)	6.3	7.0	6.7	6.3	6.0	6.7	6.3	6.7	7.0	6.7	6.7	6.7	6.6
HOVER (BURL TF-69)	6.3	6.3	6.3	6.0	6.7	6.3	6.7	6.7	6.7	6.7	7.0	7.0	6.6
TITANIUM 2LS (PPG-TF-152)	7.0	7.0	6.7	6.3	6.3	6.3	6.7	6.3	6.3	6.3	6.3	6.7	6.5
GRANDE 3	6.7	6.7	6.0	6.3	6.3	6.3	6.3	6.3	7.0	6.3	6.7	7.0	6.5
JS 819	6.3	6.3	6.3	6.3	6.3	6.0	6.0	6.3	7.0	7.0	7.0	7.0	6.5
RAD-TF-92	6.3	6.7	6.7	6.0	6.3	5.7	6.7	6.7	7.0	6.7	6.7	6.7	6.5
W41	6.3	6.0	6.3	6.3	6.3	6.0	6.7	6.7	6.7	6.7	7.0	7.0	6.5
DIABLO (IS-TF 330)	6.3	6.7	6.3	7.0	6.0	6.7	6.0	7.0	6.7	6.3	6.3	6.3	6.5
TURFWAY (IS-TF 282 M2)	6.3	6.3	6.0	6.7	6.3	6.3	6.0	6.3	6.7	7.3	6.7	6.7	6.5
ANNIHILATOR	6.7	6.0	6.3	6.3	6.3	6.0	6.3	6.7	7.0	6.7	6.7	6.7	6.5
MET-3	6.3	6.0	7.0	6.3	6.7	6.7	6.7	6.7	6.7	6.3	6.3	6.0	6.5
FAYETTE (IS-TF 291)	6.7	6.3	6.0	6.3	6.0	6.0	6.0	6.3	6.7	7.0	7.3	6.7	6.4
F711	6.7	6.7	6.3	6.7	6.0	6.7	6.0	6.3	7.0	6.3	6.3	6.3	6.4
WARHAWK	6.7	6.3	6.7	6.3	6.3	6.0	6.3	6.7	6.7	6.7	6.3	6.3	6.4
B23	6.3	6.7	6.3	6.7	6.0	6.7	6.3	6.7	6.3	6.3	6.3	6.3	6.4
JS 818	6.3	6.3	6.0	6.3	6.0	6.0	6.0	6.3	6.7	7.0	7.0	7.0	6.4
RAPTOR III (ZW 44)	6.3	7.0	6.3	6.7	6.0	6.0	6.0	6.3	7.0	6.7	6.3	6.3	6.4
REBOUNDER (PICK-W43)	6.3	6.3	6.3	5.7	6.7	6.3	6.3	6.7	7.0	6.7	6.3	6.3	6.4
REFLECTION (U45)	6.3	6.3	6.3	6.3	6.7	6.7	6.3	6.7	6.7	6.3	6.3	6.0	6.4
VERT (ATF 1612)	6.3	6.3	6.3	6.0	6.3	6.3	6.3	6.3	6.7	6.7	6.7	6.7	6.4
ATF 1704	6.3	6.7	6.0	6.3	6.7	6.3	6.3	6.3	6.7	6.3	6.3	6.3	6.4
FESNOVA	6.7	6.3	6.3	6.3	6.0	6.0	6.0	7.0	6.7	7.0	6.3	6.0	6.4
FIREWALL (PSG-WE1)	6.7	6.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4

TABLE 11. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
2017 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MARAUDER	6.0	6.0	6.7	6.3	6.0	6.7	6.7	7.0	6.3	6.3	6.3	6.3	6.4
THUNDERSTRUCK (TD1)	6.0	6.3	6.7	6.3	6.0	6.3	6.7	6.7	6.3	6.7	6.3	6.3	6.4
204 RES. BLK4	6.7	6.0	6.0	6.0	6.3	6.7	6.3	6.3	6.7	6.3	6.7	6.7	6.4
RHAMBLER 2 SRP (LSD)	6.3	6.0	6.0	6.0	6.3	6.3	6.3	7.0	6.7	7.0	6.3	6.3	6.4
PPG-TF-169	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.0	7.0	7.0	7.0	6.4
RAD-TF-89	6.7	6.7	6.3	6.0	6.3	6.0	6.0	6.3	6.3	6.3	6.7	6.7	6.4
DYNAMITE LS (PPG-TF-145)	6.3	6.7	6.7	6.3	6.3	6.3	6.0	6.3	6.3	6.7	6.0	6.3	6.4
HEMI	6.3	6.7	6.7	6.3	6.3	6.0	6.3	6.3	6.0	6.7	6.3	6.3	6.4
PPG-TF-135	6.7	6.7	6.3	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.7	6.7	6.4
UNITUS (IS-TF 289)	6.3	6.3	6.0	6.3	6.0	6.0	6.0	6.0	7.0	7.0	6.7	6.7	6.4
WICHITA (PPG-TF-151)	6.3	6.0	6.7	6.7	6.3	6.3	6.3	5.7	6.3	6.7	6.3	6.7	6.4
FAITH	6.7	6.7	6.7	6.3	6.3	6.0	5.7	6.3	6.7	6.0	6.3	6.3	6.3
K12-MCD	6.3	6.3	6.3	6.0	6.3	6.3	6.0	6.7	7.0	6.0	6.3	6.3	6.3
XTENDER (PPG-TF-139)	6.7	6.0	6.7	6.0	6.3	6.3	6.0	6.3	6.7	6.3	6.0	6.7	6.3
PSG-GSD	6.3	6.3	6.0	6.7	6.0	5.7	6.3	6.3	6.7	6.7	6.3	6.3	6.3
TRINITY (BIZEM)	6.3	6.3	6.3	6.0	6.3	6.0	6.0	6.3	6.3	7.0	6.3	6.3	6.3
BAR FA 121095	6.7	6.3	6.3	6.0	5.7	6.0	5.7	6.7	6.3	6.7	6.3	6.7	6.3
IS-TF 276 M2	6.3	5.7	6.0	6.0	6.0	6.0	6.0	7.0	6.7	7.0	6.3	6.3	6.3
ARES (PPG-TF-142)	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.3	6.7	6.7	6.7	6.7	6.3
CAESAR (TY 10)	6.0	6.3	6.0	6.3	6.0	6.3	6.3	6.3	6.7	6.3	6.3	6.3	6.3
KINGDOM (DB1)	6.0	6.3	6.3	6.3	6.3	6.7	6.0	6.0	6.3	7.0	6.0	6.0	6.3
AQUADUCT	6.0	6.3	5.7	6.0	5.7	6.0	6.0	6.7	6.7	7.3	6.3	6.3	6.3
ATF 1754	6.0	6.7	6.0	6.3	6.3	6.3	6.0	6.7	6.0	6.7	6.0	6.0	6.3
JS 916	6.0	6.3	6.7	6.3	6.3	6.3	6.0	6.0	6.3	6.3	6.0	6.3	6.3
PST-5DZP	6.3	6.0	6.0	6.7	6.0	6.0	6.0	6.3	6.7	6.3	6.3	6.3	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	6.3	6.7	6.3	6.0	6.3	6.0	6.0	6.0	6.3	6.3	6.0	6.3	6.2
TRENDING (IS-TF 269 SEL)	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.7	6.7	6.3	6.3	6.2
K12-05	6.0	6.0	6.3	6.0	6.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.2
MICHELANGELO (LTP-F5DPDR)	6.0	6.0	5.7	5.7	6.3	6.3	6.0	6.3	7.3	6.3	6.3	6.3	6.2
REBEL V (ATF 1736)	6.3	6.3	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.7	6.2
STANDOUT (IS-TF 308 SEL)	6.0	6.3	6.0	6.7	6.0	6.0	6.3	6.0	7.0	6.0	6.0	6.0	6.2
FIREBIRD 2	6.0	6.3	6.0	6.0	6.3	6.3	6.3	6.3	6.7	6.3	6.0	5.7	6.2
PST-5MVD	6.3	6.0	6.3	6.3	6.0	6.3	6.0	6.3	6.0	6.7	6.0	6.0	6.2
TRAVERSE 2 SRP (W45)	6.3	6.7	6.3	6.0	5.7	6.3	6.3	6.3	6.0	6.3	6.0	6.0	6.2
BULLSEYE	5.7	6.7	6.3	6.0	6.0	6.7	6.0	6.3	6.7	6.0	6.0	5.7	6.2
CATALYST	6.3	6.7	6.3	6.3	6.0	6.3	6.0	6.3	6.0	5.7	6.0	6.0	6.2
IS-TF-287	6.0	6.7	5.7	6.3	5.7	6.0	5.7	6.3	6.7	6.3	6.3	6.3	6.2
PARAMOUNT (PPG-TF-137)	6.0	6.3	6.0	5.7	6.3	6.7	6.0	6.0	6.7	6.0	6.0	6.3	6.2
RHIZING MOON (IS-TF 305 SEL)	6.3	6.0	6.0	5.7	6.0	5.7	6.0	6.0	7.0	6.7	6.3	6.3	6.2
HOUNDOG8 (IS-TF 307 SEL)	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	7.0	6.3	6.0	6.0	6.1
THOR (PPG-TF-157)	6.0	6.0	6.3	6.0	6.3	6.3	6.3	6.0	6.0	6.0	6.0	6.3	6.1
PSG-TT4	6.0	6.3	6.3	6.0	5.7	5.7	5.7	6.3	6.3	6.7	6.3	6.3	6.1
BLOODHOUND (MET 6 SEL)	6.3	5.7	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.0	6.0	6.7	6.1
PPG-TF-138	6.0	6.3	6.0	6.0	5.7	5.7	6.3	6.3	6.3	6.7	6.0	6.0	6.1
INSPIRATION (PST-R5NW)	6.0	6.3	6.0	6.0	6.0	5.7	6.0	6.7	6.7	6.0	6.0	6.0	6.1

TABLE 11. (CONT'D) MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/ 2017 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
JS 809	6.0	6.3	6.0	6.0	5.7	6.0	6.0	6.3	6.3	6.3	6.0	6.0	6.1
PSG-8BP2	6.3	6.3	6.0	6.0	6.0	5.3	6.0	6.0	6.3	6.3	6.0	6.3	6.1
VALKYRIE LS (PPG-TF-172)	6.0	6.3	6.0	6.0	6.0	6.0	5.7	6.0	6.3	6.0	6.3	6.3	6.1
MEMPHIS (GO-DFR)	6.0	5.7	6.0	5.7	6.3	6.3	6.0	6.7	6.3	6.3	5.7	5.7	6.1
PST-5BP0	6.3	6.3	6.0	6.0	6.0	5.7	6.0	6.3	6.3	6.0	5.7	6.0	6.1
MERIDIAN (PST-5GRB)	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	7.0	6.0	5.7	5.7	6.1
AVENGER II (PPG-TF-156)	5.7	6.7	6.0	5.7	6.0	6.3	6.0	6.0	6.3	6.0	6.0	5.7	6.0
BAR FA 121091	6.0	6.3	6.0	6.0	5.7	6.0	5.7	6.0	6.7	6.0	6.0	6.0	6.0
NIGHTCRAWLER (IS-TF 285)	6.0	6.0	5.7	6.3	6.0	5.7	6.0	6.0	6.3	6.3	6.0	6.0	6.0
PPG-TF-115	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.0	6.0
PST-5EX2	6.0	6.0	5.7	5.7	6.0	6.3	6.0	6.0	6.0	6.3	6.0	6.3	6.0
IS-TF 272	6.0	6.3	6.0	5.7	5.3	6.0	5.7	6.0	6.3	6.3	6.0	6.0	6.0
K12-13	6.0	6.0	6.0	5.7	6.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.9
SALTILLO (PST-5SALT)	5.7	6.0	5.7	6.0	6.0	5.7	6.0	6.3	6.7	6.3	5.7	5.3	5.9
FRONTLINE (EXP TF-09)	6.0	6.0	5.7	6.0	6.0	5.7	5.7	6.3	5.7	6.3	6.0	5.7	5.9
RAD-TF-83	6.0	6.0	5.7	6.0	5.7	5.7	5.7	6.3	6.3	6.0	6.0	5.7	5.9
PST-5BRK	5.7	6.0	6.0	6.3	5.3	5.7	5.3	6.0	6.3	6.3	6.0	5.7	5.9
TEMPTATION (OR-21)	5.7	6.0	6.0	6.0	5.3	5.7	5.7	6.3	6.3	6.3	5.7	5.7	5.9
BAR FA 121089	5.7	6.0	5.7	6.0	5.7	6.0	5.7	6.3	6.0	6.0	5.7	5.7	5.9
RAIN DANCE (PST-5SDT)	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.3	6.3	6.0	5.7	5.7	5.8
SWAGGER (PST-5R05)	5.7	5.7	5.7	6.0	5.7	5.7	5.7	6.0	6.0	6.0	5.7	5.7	5.8
COMP. RES. SST	5.7	5.7	6.0	5.3	5.3	6.0	5.7	6.3	6.0	6.3	5.7	5.3	5.8
FOXHOUND (IS-TF 284 M2)	6.0	5.7	5.3	5.7	5.3	5.3	5.7	6.0	6.0	6.0	6.0	6.0	5.8
JS 825	6.0	6.0	6.0	6.0	5.0	5.3	5.3	6.0	6.0	6.0	5.3	5.7	5.7
BAR FA 120878	5.0	5.3	5.0	5.3	5.0	5.0	5.0	6.0	6.0	6.0	5.0	5.0	5.3
KY-31	3.7	4.3	4.3	5.0	4.0	4.0	4.0	5.3	6.0	5.3	4.7	4.0	4.6
LSD VALUE	0.8	1.0	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.9	1.0	1.1	0.6
C.V. (%)	8.0	9.8	8.6	8.6	8.4	9.1	8.3	8.8	8.1	8.3	9.6	10.4	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. PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2017 DATA

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

NAME	BEFORE TRAFFIC ON APRIL 11				AFTER TRAFFIC IN SPRING (MAY 31)				BEFORE TRAFFIC ON JUNE 26			
	UNIFORMITY	FULLNESS OF CANOPY	UNIFORMITY	FULLNESS OF CANOPY	UNIFORMITY	FULLNESS OF CANOPY	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
HEMI	8.3	6.7	94.7	68.3	9.0	7.7	99.0	71.7	9.0	9.0	99.0	88.3
B23	8.7	6.7	94.7	71.7	9.0	6.3	99.0	63.3	9.0	8.7	99.0	81.7
HOT ROD (BURL TF-136)	8.7	6.7	90.0	65.0	9.0	6.3	96.3	61.7	9.0	7.3	99.0	80.0
CAESAR (TY 10)	8.3	5.7	91.7	56.7	9.0	4.7	95.0	45.0	9.0	6.7	96.3	68.3
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	6.7	94.7	68.3	9.0	6.0	97.7	65.0	9.0	7.3	99.0	81.7
JS 916	8.7	6.3	91.7	70.0	9.0	6.7	97.7	63.3	9.0	8.3	99.0	80.0
REFLECTION (U45)	9.0	6.0	96.0	65.0	9.0	5.7	99.0	61.7	9.0	7.7	99.0	80.0
RHAMBLER 2 SRP (LSD)	9.0	6.7	90.0	65.0	9.0	7.0	97.7	66.7	9.0	9.0	97.7	85.0
VALKYRIE LS (PPG-TF-172)	8.7	7.3	94.7	73.3	9.0	6.3	99.0	65.0	9.0	8.3	99.0	83.3
INSPIRATION (PST-R5NW)	8.3	6.7	90.0	70.0	9.0	5.3	95.0	53.3	8.7	7.7	99.0	78.3
IS-TF 276 M2	8.3	6.3	90.0	66.7	9.0	6.0	99.0	60.0	9.0	7.7	97.7	83.3
K12-13	7.7	5.0	81.7	45.0	9.0	5.7	97.7	58.3	9.0	7.7	96.3	73.3
4TH MILLENNIUM SRP (U43)	9.0	6.3	96.3	65.0	9.0	6.3	99.0	55.0	9.0	8.0	99.0	83.3
AQUADUCT	8.7	7.7	94.7	75.0	8.3	6.0	95.0	60.0	8.0	8.0	95.0	80.0
BAR FA 120878	8.0	7.3	85.0	76.7	7.7	3.3	83.3	38.3	7.7	6.0	85.0	63.3
BLACK TAIL (PPG-TF-150)	9.0	6.7	96.3	61.7	9.0	6.0	99.0	61.7	9.0	7.7	99.0	85.0
DIABLO (IS-TF 330)	8.3	5.7	83.3	55.0	9.0	5.3	97.7	56.7	9.0	8.0	99.0	80.0
PSG-8BP2	8.3	7.0	86.7	76.7	8.3	5.3	94.7	56.7	8.3	7.3	95.0	78.3
PST-5EX2	9.0	8.3	97.7	85.0	9.0	5.7	96.3	55.0	8.0	7.0	95.0	75.0
RAD-TF-89	8.0	6.3	88.3	71.7	9.0	6.0	97.7	60.0	8.7	7.7	97.7	80.0
REGENERATE	9.0	7.7	96.3	78.3	9.0	6.0	99.0	63.3	9.0	7.7	99.0	80.0
MICHELANGELO (LTP-F5DPDR)	9.0	7.0	96.3	75.0	9.0	6.0	99.0	60.0	9.0	8.0	99.0	81.7
PSG-GSD	9.0	7.0	91.7	66.7	8.7	5.0	95.0	45.0	9.0	7.0	97.7	75.0
RAD-TF-92	9.0	7.0	96.3	71.7	9.0	6.7	96.3	61.7	9.0	8.0	99.0	81.7
ATF 1704	9.0	7.0	95.0	68.3	9.0	5.0	99.0	53.3	8.7	7.3	99.0	80.0
CATALYST	9.0	7.0	94.7	68.3	9.0	5.3	97.7	53.3	9.0	7.7	99.0	75.0
HOVER (BURL TF-69)	9.0	7.0	97.7	73.3	9.0	5.0	99.0	58.3	9.0	6.7	99.0	75.0
IS-TF 311	8.3	6.3	88.3	65.0	9.0	5.3	99.0	46.7	9.0	7.3	99.0	80.0
IS-TF-287	9.0	7.3	90.0	73.3	9.0	5.0	97.7	53.3	9.0	7.3	99.0	76.7
JS 809	7.3	5.3	78.3	61.7	9.0	6.3	96.3	61.7	8.7	7.3	96.3	81.7
JS 818	8.0	5.7	88.3	51.7	8.7	5.3	97.7	50.0	8.3	7.3	94.7	70.0
JS 819	8.0	6.3	86.7	63.3	8.7	5.7	96.3	51.7	8.3	7.3	97.7	76.7
MAESTRO (T31)	9.0	6.7	96.0	65.0	9.0	4.7	99.0	50.0	9.0	7.0	97.7	73.3
NIGHTCRAWLER (IS-TF 285)	9.0	5.7	93.3	56.7	9.0	5.3	97.7	51.7	9.0	7.3	99.0	76.7
PARAMOUNT (PPG-TF-137)	9.0	6.3	96.0	70.0	9.0	5.0	97.7	55.0	9.0	8.0	99.0	83.3
PSG-TT4	9.0	6.7	93.3	66.7	8.7	5.0	95.0	51.7	8.3	7.3	96.3	76.7
PST-5BPO	9.0	7.3	94.7	75.0	9.0	4.3	97.7	48.3	9.0	7.3	97.7	76.7
SUPERSONIC (PPG-TF-170)	9.0	7.7	93.3	75.0	9.0	5.0	97.7	53.3	9.0	7.7	97.7	78.3
TURFWAY (IS-TF 282 M2)	8.7	5.3	93.3	58.3	9.0	5.3	99.0	58.3	9.0	7.0	97.7	78.3
DYNAMITE LS (PPG-TF-145)	8.7	5.0	85.0	48.3	9.0	5.0	96.3	50.0	8.7	6.7	97.7	75.0
FALCON IV	8.7	6.7	88.3	68.3	9.0	4.7	95.0	48.3	8.7	6.7	97.7	71.7
FAYETTE (IS-TF 291)	9.0	6.0	96.3	60.0	9.0	6.0	99.0	56.7	9.0	7.7	99.0	80.0
FIRECRACKER SLS (PPG-TF-105)	8.7	6.0	90.0	66.7	9.0	6.7	97.7	65.0	9.0	7.3	99.0	85.0
FIREWALL (PSG-WE1)	8.7	6.7	93.0	65.0	9.0	5.3	99.0	58.3	9.0	7.0	99.0	80.0
OLYMPUS (RAD-TF-88)	9.0	7.3	97.7	73.3	9.0	6.7	97.7	63.3	9.0	8.0	99.0	86.7

TABLE 12.
(CONT'D)PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2017 DATA

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

NAME	BEFORE TRAFFIC ON APRIL 11				AFTER TRAFFIC IN SPRING (MAY 31)				BEFORE TRAFFIC ON JUNE 26			
	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
PST-5BRK	8.3	7.0	86.7	71.7	9.0	5.3	97.7	53.3	9.0	7.3	96.3	75.0
REBEL V (ATF 1736)	9.0	6.3	93.3	66.7	9.0	5.7	97.7	65.0	9.0	8.0	99.0	80.0
SALTILLO (PST-5SALT)	8.7	6.0	91.7	61.7	9.0	5.0	97.7	51.7	9.0	7.3	96.3	71.7
SWAGGER (PST-5R05)	8.7	6.3	90.0	65.0	8.3	4.3	97.7	48.3	9.0	7.0	99.0	75.0
XTENDER (PPG-TF-139)	8.7	5.7	88.3	55.0	9.0	6.0	97.7	60.0	9.0	7.3	97.7	81.7
ATF 1612	9.0	6.3	94.7	63.3	9.0	4.7	99.0	45.0	9.0	7.0	97.7	75.0
BAR FA 121089	9.0	6.0	93.3	61.7	9.0	4.0	96.3	43.3	8.0	5.7	95.0	65.0
BAR FA 121095	8.0	5.0	88.3	58.3	9.0	4.3	96.0	46.7	8.7	6.0	97.7	70.0
BIZEM	9.0	6.7	94.7	68.3	9.0	5.7	97.7	56.7	9.0	7.7	99.0	80.0
FALCON V	8.7	5.0	91.7	51.7	9.0	4.7	99.0	46.7	9.0	5.3	99.0	70.0
FOXHOUND (IS-TF 284 M2)	8.3	6.0	91.7	58.3	9.0	6.3	97.7	63.3	9.0	7.3	99.0	78.3
FRONTLINE (EXP TF-09)	8.0	5.0	86.7	48.3	9.0	4.7	95.0	50.0	8.0	6.7	93.3	70.0
GRANDE 3	9.0	6.3	97.7	68.3	9.0	5.3	99.0	53.3	9.0	6.7	99.0	73.3
HOUNDOGB (IS-TF 307 SEL)	9.0	5.3	90.0	53.3	9.0	4.3	99.0	43.3	9.0	7.0	99.0	75.0
K12-05	8.0	5.7	86.7	50.0	9.0	5.7	97.7	53.3	9.0	6.7	97.7	75.0
KINGDOM (DB1)	8.3	6.0	91.7	60.0	9.0	5.3	97.7	56.7	9.0	6.7	99.0	76.7
MEMPHIS (GO-DFR)	8.3	6.3	86.7	65.0	9.0	6.7	99.0	65.0	9.0	6.7	97.7	75.0
MERIDIAN (PST-5GRB)	8.7	6.7	91.3	65.0	9.0	6.3	99.0	63.3	9.0	8.7	97.7	86.7
MET-3	9.0	6.0	96.3	58.3	9.0	5.3	97.7	51.7	9.0	7.7	99.0	78.3
RAIN DANCE (PST-5SDT)	8.3	6.7	90.0	70.0	8.7	4.7	96.3	46.7	8.7	7.3	94.7	71.7
RAPTOR III (ZW 44)	9.0	6.7	93.0	65.0	9.0	5.7	99.0	51.7	9.0	8.0	99.0	78.3
TRENDING (IS-TF 269 SEL)	8.7	5.7	88.3	55.0	9.0	5.7	99.0	61.7	9.0	7.3	99.0	76.7
AVENGER II (PPG-TF-156)	9.0	6.3	96.3	58.3	9.0	5.3	99.0	58.3	9.0	7.0	99.0	80.0
COMP. RES. SST	7.7	5.3	83.0	51.7	9.0	6.3	99.0	61.7	9.0	7.7	97.7	81.7
F711	9.0	7.0	91.7	76.7	9.0	5.3	99.0	60.0	9.0	8.3	99.0	78.3
IS-TF 272	8.0	5.0	86.7	51.7	9.0	4.3	96.3	45.0	9.0	6.3	99.0	68.3
REBOUNDER (PICK-W43)	9.0	6.7	93.0	65.0	9.0	5.3	97.7	58.3	9.0	8.0	99.0	80.0
RHIZING MOON (IS-TF 305 SEL)	8.3	5.7	86.7	53.3	9.0	5.0	97.7	48.3	8.7	7.0	99.0	75.0
TEMPLE (DZ1)	8.7	6.3	91.7	58.3	9.0	5.0	99.0	50.0	9.0	7.7	99.0	76.7
TITANIUM 2LS (PPG-TF-152)	8.7	5.3	90.0	55.0	9.0	5.7	99.0	56.7	9.0	7.3	99.0	78.3
TRAVERSE 2 SRP (W45)	9.0	5.7	93.3	53.3	9.0	4.3	99.0	40.0	9.0	7.0	99.0	71.7
204 RES. BLK4	8.3	5.7	90.0	58.3	9.0	5.7	99.0	55.0	9.0	7.3	96.3	76.7
ATF 1754	9.0	6.0	93.3	60.0	8.7	4.3	95.0	46.7	9.0	7.7	97.7	75.0
BAR FA 121091	8.0	5.7	85.0	60.0	8.3	4.0	93.3	43.3	8.3	6.3	95.0	68.3
BLOODHOUND (MET 6 SEL)	9.0	5.7	91.7	55.0	9.0	4.7	99.0	48.3	9.0	6.7	97.7	71.7
BULLSEYE	8.7	6.3	93.0	65.0	9.0	5.3	99.0	50.0	9.0	7.3	99.0	78.3
FESNOVA	8.7	6.3	91.7	63.3	9.0	5.3	96.3	53.3	9.0	7.0	96.3	73.3
FIREBIRD 2	9.0	6.3	93.0	48.3	9.0	5.0	99.0	55.0	9.0	8.0	99.0	83.3
GTO (BURL TF-2)	9.0	7.3	96.3	75.0	9.0	4.3	99.0	46.7	9.0	7.0	97.7	70.0
PPG-TF-115	8.7	6.0	93.0	60.0	9.0	4.7	97.7	51.7	9.0	7.3	96.3	75.0
RAD-TF-83	8.7	5.7	93.3	58.3	9.0	4.7	97.7	46.7	9.0	6.7	96.3	70.0
ROCKWELL (LTP-TWUU)	8.7	6.7	93.0	71.7	9.0	5.7	99.0	61.7	9.0	7.7	99.0	78.3
ROWDY (SRX-TPC)	9.0	6.7	93.0	63.3	9.0	6.3	99.0	66.7	9.0	8.0	99.0	78.3
TECHNIQUE (RZ2)	9.0	8.0	93.3	80.0	9.0	6.0	97.7	60.0	9.0	8.3	99.0	83.3
WARHAWK	7.7	5.3	81.7	51.7	9.0	4.7	97.7	53.3	8.3	6.3	95.0	63.3

TABLE 12.
(CONT'D) PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2017 DATA

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

NAME	BEFORE TRAFFIC ON APRIL 11				AFTER TRAFFIC IN SPRING (MAY 31)				BEFORE TRAFFIC ON JUNE 26			
	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
EMBRACE (PST-5EV2)	9.0	7.0	94.7	68.3	9.0	5.3	96.0	56.7	9.0	8.3	99.0	80.0
LEONARDO (LTP-FSD)	9.0	6.3	93.3	61.7	9.0	4.7	95.0	51.7	9.0	7.7	99.0	73.3
PPG-TF-135	9.0	6.3	93.3	61.7	9.0	4.3	99.0	45.0	9.0	8.0	99.0	78.3
THOR (PPG-TF-157)	8.7	6.3	94.7	65.0	9.0	4.7	96.3	55.0	9.0	7.3	99.0	78.3
W41	9.0	6.3	91.7	61.7	9.0	5.3	99.0	53.3	9.0	7.3	97.7	78.3
ANNIHILATOR	8.3	6.0	86.7	65.0	9.0	5.7	95.0	63.3	9.0	7.7	93.3	76.7
STANDOUT (IS-TF 308 SEL)	9.0	6.0	93.3	61.7	9.0	5.3	99.0	53.3	9.0	8.3	99.0	81.7
TEMPTATION (OR-21)	8.7	3.7	90.0	41.7	9.0	3.7	95.0	40.0	8.3	5.3	93.3	61.7
UNITUS (IS-TF 289)	8.0	5.7	81.7	55.0	9.0	4.3	96.3	46.7	9.0	7.0	96.3	76.7
AMITY (CCR2)	9.0	5.3	93.3	46.7	9.0	5.0	99.0	46.7	9.0	6.3	99.0	75.0
FAITH	8.7	6.7	91.3	66.7	9.0	4.3	99.0	45.0	8.7	5.7	97.7	63.3
JS 825	7.0	4.3	75.0	41.7	8.7	3.3	93.3	38.3	8.0	5.3	96.3	61.7
K12-MCD	9.0	7.0	96.3	71.7	9.0	4.0	97.7	40.0	8.7	7.3	97.7	76.7
PPG-TF-138	8.0	5.0	83.3	46.7	9.0	4.7	97.7	45.0	9.0	7.3	97.7	76.7
PSG-P01	9.0	5.7	94.7	58.3	9.0	3.3	97.7	43.3	9.0	6.7	99.0	71.7
PST-5DZP	8.7	4.3	85.0	40.0	9.0	4.7	97.7	51.7	9.0	6.7	97.7	70.0
PST-5MVD	9.0	6.3	90.0	61.7	9.0	4.3	95.0	38.3	9.0	6.7	97.7	71.7
ARES (PPG-TF-142)	7.3	4.3	80.0	40.0	9.0	5.3	97.7	56.7	9.0	6.3	99.0	73.3
MET 1	9.0	6.7	96.3	66.7	9.0	4.7	99.0	45.0	9.0	7.3	99.0	75.0
PPG-TF-169	9.0	7.3	99.0	76.7	9.0	4.3	99.0	48.3	9.0	7.7	97.7	75.0
TERRANO	8.7	4.3	85.0	46.7	9.0	4.0	97.7	40.0	9.0	6.3	97.7	75.0
THUNDERSTRUCK (TD1)	7.7	4.3	81.7	40.0	9.0	3.3	96.3	41.7	9.0	5.7	99.0	65.0
KY-31	7.0	4.7	76.7	48.3	7.0	3.0	70.0	30.0	6.7	5.0	71.7	55.0
SCREAMER LS (PPG-TF-148)	9.0	6.0	97.7	61.7	9.0	3.7	99.0	43.3	9.0	7.0	99.0	70.0
WICHITA (PPG-TF-151)	9.0	4.7	96.3	50.0	9.0	4.0	99.0	43.3	9.0	7.3	97.7	76.7
MARAUDER	7.7	4.3	81.7	48.3	9.0	4.0	97.7	43.3	8.7	6.0	96.3	65.0
LSD VALUE	0.8	2.0	7.9	25.2	0.3	2.6	2.7	24.8	0.4	1.9	2.4	13.1
C.V. (%)	5.3	16.8	5.1	19.4	2.1	22.2	1.9	20.1	2.8	12.8	1.7	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 12.
(CONT'D)PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2017 DATA

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

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 16)		FULLNESS OF CANOPY		BEFORE TRAFFIC ON SEPTEMBER 11		FULLNESS OF CANOPY		AFTER TRAFFIC IN FALL (OCTOBER 31)		FULLNESS OF CANOPY	
	UNIFORMITY		UNIFORMITY		UNIFORMITY		UNIFORMITY		UNIFORMITY		UNIFORMITY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
HEMI	9.0	5.7	97.7	55.0	9.0	6.7	93.3	65.0	9.0	4.7	88.3	45.0
B23	9.0	6.0	99.0	60.0	9.0	7.3	99.0	71.7	9.0	4.3	94.7	43.3
HOT ROD (BURL TF-136)	9.0	5.0	97.7	50.0	9.0	5.7	97.7	55.0	9.0	4.3	94.7	41.7
CAESAR (TY 10)	9.0	5.0	93.3	46.7	8.7	5.7	94.7	55.0	9.0	4.3	94.7	40.0
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	5.0	99.0	51.7	9.0	6.0	97.7	65.0	9.0	4.3	97.7	40.0
JS 916	9.0	5.7	96.3	55.0	9.0	6.0	96.3	63.3	9.0	4.7	95.0	40.0
REFLECTION (U45)	9.0	5.0	97.7	48.3	9.0	6.0	96.3	66.7	9.0	5.3	96.3	40.0
RHAMBLER 2 SRP (LSD)	9.0	5.3	96.3	51.7	9.0	6.0	96.0	65.0	8.7	4.7	91.7	40.0
VALKYRIE LS (PPG-TF-172)	9.0	5.0	99.0	48.3	8.7	4.7	96.0	48.3	9.0	4.0	93.0	40.0
INSPIRATION (PST-R5NW)	9.0	6.0	95.0	56.7	9.0	7.7	96.3	76.7	8.0	4.7	86.7	38.3
IS-TF 276 M2	8.7	5.7	93.3	51.7	8.7	7.0	94.7	73.3	8.7	4.3	88.3	38.3
K12-13	9.0	5.3	96.3	55.0	9.0	5.3	95.0	51.7	9.0	4.3	96.0	38.3
4TH MILLENNIUM SRP (U43)	9.0	5.0	96.3	46.7	9.0	5.0	97.7	51.7	8.7	4.0	96.3	36.7
AQUADUCT	8.7	5.7	91.7	50.0	9.0	7.7	96.3	73.3	8.3	3.3	88.3	36.7
BAR FA 120878	8.0	5.0	81.7	46.7	7.3	5.7	81.7	56.7	6.7	4.7	70.0	36.7
BLACK TAIL (PPG-TF-150)	9.0	4.0	96.3	40.0	9.0	4.3	97.7	43.3	9.0	3.3	89.7	36.7
DIABLO (IS-TF 330)	9.0	4.7	97.7	46.7	9.0	5.3	96.0	50.0	9.0	3.7	93.0	36.7
PSG-8BP2	8.7	5.3	94.7	50.0	8.7	6.3	93.3	63.3	8.7	4.7	86.7	36.7
PST-5EX2	9.0	5.3	93.3	46.7	8.7	6.7	94.7	66.7	8.0	4.3	86.7	36.7
RAD-TF-89	9.0	5.7	96.3	51.7	9.0	6.0	97.7	61.7	8.7	3.7	96.0	36.7
REGENERATE	9.0	4.3	99.0	46.7	9.0	5.3	99.0	61.7	9.0	4.3	96.3	36.7
MICHELANGELO (LTP-F5DPDR)	9.0	5.7	99.0	53.3	9.0	6.7	95.0	65.0	8.7	4.7	94.7	35.0
PSG-GSD	8.7	3.7	95.0	38.3	9.0	5.7	95.0	58.3	8.3	3.0	90.0	35.0
RAD-TF-92	9.0	5.3	97.7	51.7	9.0	7.3	97.7	71.7	8.3	4.3	91.7	35.0
ATF 1704	9.0	3.7	96.3	43.3	9.0	5.0	99.0	53.3	9.0	3.0	99.0	33.3
CATALYST	9.0	5.0	96.3	51.7	9.0	5.3	97.7	55.0	9.0	3.7	96.0	33.3
HOVER (BURL TF-69)	9.0	4.3	96.3	40.0	9.0	6.3	96.3	63.3	8.7	3.0	92.7	33.3
IS-TF 311	9.0	4.7	97.7	48.3	8.7	5.7	97.7	53.3	9.0	3.3	94.7	33.3
IS-TF-287	9.0	4.3	99.0	41.7	9.0	6.3	97.7	61.7	9.0	4.0	99.0	33.3
JS 809	8.7	6.3	94.7	58.3	9.0	6.7	94.7	65.0	8.7	4.7	83.3	33.3
JS 818	8.7	5.0	95.0	46.7	8.7	6.3	94.7	65.0	8.7	4.3	91.7	33.3
JS 819	9.0	4.7	95.0	45.0	9.0	5.7	91.7	60.0	7.7	3.0	85.0	33.3
MAESTRO (T31)	9.0	4.3	97.7	41.7	8.7	4.3	97.7	48.3	9.0	4.0	94.7	33.3
NIGHTCRAWLER (IS-TF 285)	9.0	5.7	95.0	51.7	8.7	6.0	96.0	60.0	9.0	3.7	95.0	33.3
PARAMOUNT (PPG-TF-137)	9.0	4.0	97.7	45.0	9.0	4.0	99.0	41.7	9.0	3.7	95.0	33.3
PSG-TT4	8.7	4.7	94.7	43.3	8.7	6.0	93.3	60.0	7.7	3.7	83.3	33.3
PST-5BPO	9.0	3.3	95.0	35.0	8.7	5.7	94.7	63.3	8.7	3.3	90.0	33.3
SUPERSONIC (PPG-TF-170)	9.0	4.3	97.7	46.7	9.0	5.7	96.3	58.3	9.0	4.7	97.7	33.3
TURFWAY (IS-TF 282 M2)	9.0	4.0	97.7	41.7	9.0	4.7	96.3	43.3	9.0	2.7	90.0	33.3
DYNAMITE LS (PPG-TF-145)	9.0	3.3	95.0	36.7	8.3	4.0	94.7	41.7	9.0	3.0	93.0	31.7
FALCON IV	8.7	3.7	93.3	38.3	8.0	5.0	93.3	55.0	8.3	3.3	88.3	31.7
FAYETTE (IS-TF 291)	9.0	5.0	97.7	50.0	9.0	6.0	97.7	61.7	8.7	3.7	91.3	31.7
FIRECRACKER SLS (PPG-TF-105)	9.0	4.0	97.7	41.7	9.0	5.3	96.3	55.0	9.0	3.0	93.3	31.7
FIREWALL (PSG-WE1)	9.0	4.3	97.7	45.0	9.0	4.7	97.7	51.7	9.0	3.0	93.0	31.7
OLYMPUS (RAD-TF-88)	9.0	5.3	97.7	48.3	9.0	6.0	97.7	63.3	8.0	2.7	80.0	31.7

Taken from 2012 Tall Fescue test - 2017 data report with permission from NTEP

TABLE 12. PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2017 DATA

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

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 16)				BEFORE TRAFFIC ON SEPTEMBER 11				AFTER TRAFFIC IN FALL (OCTOBER 31)			
	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
PST-5BRK	8.7	3.7	95.0	35.0	8.3	5.7	94.7	56.7	8.3	3.3	81.7	31.7
REBEL V (ATF 1736)	9.0	4.7	95.0	43.3	9.0	5.7	96.3	55.0	8.7	3.0	91.7	31.7
SALTILLO (PST-5SALT)	8.7	3.7	93.3	35.0	9.0	4.3	97.7	51.7	8.7	3.3	88.3	31.7
SWAGGER (PST-5R05)	9.0	5.0	97.7	50.0	8.7	6.0	96.0	61.7	8.3	3.7	88.3	31.7
XTENDER (PPG-TF-139)	9.0	4.0	99.0	38.3	8.7	5.3	94.7	50.0	9.0	3.7	94.3	31.7
ATF 1612	9.0	3.7	97.7	38.3	9.0	4.3	99.0	48.3	9.0	2.7	94.7	30.0
BAR FA 121089	9.0	4.3	96.3	45.0	8.7	4.3	93.3	48.3	8.0	2.0	86.7	30.0
BAR FA 121095	9.0	5.0	97.7	51.7	9.0	5.3	96.0	58.3	8.7	3.0	91.7	30.0
BIZEM	9.0	4.3	97.7	45.0	9.0	5.7	96.3	60.0	9.0	3.3	96.3	30.0
FALCON V	9.0	3.0	97.7	35.0	9.0	3.3	99.0	41.7	8.7	3.0	94.7	30.0
FOXHOUND (IS-TF 284 M2)	9.0	4.7	97.7	41.7	8.7	5.3	96.3	60.0	9.0	2.7	95.0	30.0
FRONTLINE (EXP TF-09)	8.0	3.3	90.0	33.3	8.0	5.3	86.7	56.7	8.0	2.7	85.0	30.0
GRANDE 3	9.0	4.0	96.3	38.3	8.3	4.7	93.3	48.3	9.0	3.0	93.0	30.0
HOUND08 (IS-TF 307 SEL)	9.0	3.7	99.0	38.3	9.0	4.3	96.0	51.7	9.0	3.0	96.3	30.0
K12-05	9.0	3.3	99.0	33.3	9.0	4.0	99.0	38.3	8.7	2.7	91.3	30.0
KINGDOM (DB1)	8.7	3.7	96.3	36.7	8.3	3.7	93.3	41.7	8.7	2.7	88.3	30.0
MEMPHIS (GO-DFR)	9.0	4.7	96.3	45.0	8.3	6.0	93.3	65.0	8.7	3.0	91.3	30.0
MERIDIAN (PST-5GRB)	9.0	6.0	96.3	55.0	9.0	7.0	96.3	70.0	9.0	3.3	93.0	30.0
MET-3	9.0	4.0	99.0	40.0	8.7	4.3	96.3	46.7	9.0	2.7	97.7	30.0
RAIN DANCE (PST-5SDT)	8.7	4.7	93.0	46.7	8.3	5.7	91.7	63.3	8.0	3.3	85.0	30.0
RAPTOR III (ZW 44)	9.0	3.0	96.3	33.3	9.0	4.0	99.0	45.0	9.0	2.7	97.7	30.0
TRENDING (IS-TF 269 SEL)	9.0	4.7	99.0	46.7	9.0	6.0	97.7	58.3	9.0	3.3	91.7	30.0
AVENGER II (PPG-TF-156)	9.0	2.7	97.7	28.3	9.0	3.3	96.3	31.7	9.0	3.0	94.7	28.3
COMP. RES. SST	8.7	5.0	93.0	55.0	9.0	7.0	94.7	71.7	8.7	3.0	88.3	28.3
F711	9.0	3.7	97.7	36.7	9.0	4.3	97.7	46.7	9.0	3.3	93.0	28.3
IS-TF 272	9.0	4.3	97.7	46.7	8.7	5.3	96.3	50.0	9.0	2.3	94.7	28.3
REBOUNDER (PICK-W43)	9.0	3.3	97.7	36.7	9.0	4.3	97.7	46.7	9.0	3.3	96.3	28.3
RHIZING MOON (IS-TF 305 SEL)	8.7	3.7	94.7	33.3	8.7	5.3	93.3	55.0	8.7	3.0	93.3	28.3
TEMPLE (DZ1)	9.0	3.3	97.7	33.3	9.0	4.0	97.7	40.0	9.0	3.3	96.0	28.3
TITANIUM 2LS (PPG-TF-152)	9.0	3.7	99.0	40.0	9.0	4.3	99.0	50.0	9.0	2.7	99.0	28.3
TRAVERSE 2 SRP (W45)	9.0	2.3	96.3	26.7	9.0	3.0	95.0	30.0	9.0	2.0	97.7	28.3
204 RES. BLK4	9.0	3.3	97.7	33.3	9.0	4.7	97.7	51.7	9.0	2.3	93.0	26.7
ATF 1754	9.0	4.0	97.7	40.0	9.0	5.0	99.0	51.7	8.7	3.0	96.3	26.7
BAR FA 121091	9.0	4.0	95.0	46.7	9.0	5.7	91.7	55.0	8.3	2.7	86.7	26.7
BLOODHOUND (MET 6 SEL)	9.0	2.7	97.7	30.0	9.0	4.0	96.3	45.0	9.0	2.0	97.7	26.7
BULLSEYE	8.7	4.7	96.0	45.0	9.0	6.7	97.7	70.0	9.0	3.3	97.7	26.7
FESNOVA	9.0	4.7	95.0	46.7	8.7	5.3	95.0	55.0	8.3	2.3	85.0	26.7
FIREBIRD 2	9.0	3.7	99.0	36.7	9.0	4.3	99.0	45.0	9.0	2.0	97.7	26.7
GTO (BURL TF-2)	9.0	3.7	97.7	35.0	8.7	4.7	96.3	51.7	9.0	2.0	96.3	26.7
PPG-TF-115	9.0	3.0	97.7	35.0	8.7	3.7	95.0	35.0	8.3	2.7	89.7	26.7
RAD-TF-83	9.0	3.7	97.7	40.0	8.0	5.0	83.3	51.7	8.0	2.3	85.0	26.7
ROCKWELL (LTP-TWUU)	9.0	4.7	96.3	43.3	9.0	5.7	97.7	63.3	8.7	3.0	93.0	26.7
ROWDY (SRX-TPC)	9.0	3.7	96.3	36.7	9.0	5.0	97.7	50.0	9.0	3.0	93.0	26.7
TECHNIQUE (RZ2)	9.0	3.7	97.7	38.3	9.0	4.7	97.7	48.3	9.0	2.7	97.7	26.7
WARHAWK	8.7	4.3	91.7	43.3	9.0	5.0	90.0	50.0	7.7	2.3	76.7	26.7

TABLE 12. PERCENT TURFGRASS FULLNESS OF CANOPY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2017 DATA

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

NAME	AFTER TRAFFIC IN SUMMER (AUGUST 16)				BEFORE TRAFFIC ON SEPTEMBER 11				AFTER TRAFFIC IN FALL (OCTOBER 31)			
	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
EMBRACE (PST-5EV2)	9.0	2.0	99.0	26.7	9.0	3.0	99.0	30.0	8.7	2.3	96.3	25.0
LEONARDO (LTP-FSD)	9.0	3.3	96.3	36.7	9.0	5.0	93.3	50.0	8.0	2.3	85.0	25.0
PPG-TF-135	9.0	1.7	96.3	25.0	9.0	3.0	96.3	35.0	9.0	1.7	91.3	25.0
THOR (PPG-TF-157)	9.0	3.3	97.7	35.0	8.7	4.0	96.3	38.3	9.0	2.3	92.7	25.0
W41	9.0	2.3	96.3	28.3	9.0	3.3	96.3	31.7	8.7	2.0	97.7	25.0
ANNIHILATOR	9.0	5.0	95.0	50.0	8.7	5.7	93.3	55.0	7.0	2.0	65.0	23.3
STANDOUT (IS-TF 308 SEL)	9.0	3.0	99.0	36.7	9.0	4.3	99.0	43.3	9.0	2.3	97.7	23.3
TEMPTATION (OR-21)	8.7	2.3	95.0	26.7	8.7	3.3	94.7	40.0	8.3	1.7	88.3	23.3
UNITUS (IS-TF 289)	9.0	3.0	97.7	36.7	8.7	3.7	96.0	40.0	9.0	2.7	93.3	23.3
AMITY (CCR2)	9.0	2.7	99.0	30.0	8.7	2.3	96.0	30.0	9.0	1.3	94.7	21.7
FAITH	9.0	3.3	95.0	36.7	8.7	4.3	88.0	45.0	8.3	2.3	93.0	21.7
JS 825	8.3	3.0	93.3	31.7	7.7	3.3	83.3	40.0	7.7	2.0	73.3	21.7
K12-MCD	9.0	4.7	96.3	43.3	9.0	5.3	96.3	55.0	9.0	1.7	91.7	21.7
PPG-TF-138	9.0	3.0	95.0	35.0	9.0	4.0	99.0	41.7	9.0	2.7	96.3	21.7
PSG-PO1	9.0	1.7	97.7	23.3	9.0	2.3	94.7	26.7	9.0	1.0	93.0	21.7
PST-5DZP	8.7	3.3	96.3	33.3	9.0	3.7	93.0	40.0	8.3	2.3	88.3	21.7
PST-5MVD	9.0	3.0	96.3	30.0	9.0	3.7	97.7	38.3	8.7	2.0	91.7	21.7
ARES (PPG-TF-142)	9.0	3.0	97.7	33.3	9.0	3.7	96.3	35.0	8.7	2.3	94.7	20.0
MET 1	9.0	3.0	97.7	26.7	9.0	4.0	95.0	41.7	9.0	1.7	94.7	20.0
PPG-TF-169	9.0	2.0	99.0	25.0	9.0	2.7	99.0	30.0	8.7	2.0	97.7	20.0
TERRANO	9.0	3.7	95.0	33.3	8.7	4.0	93.3	36.7	8.7	1.7	94.7	20.0
THUNDERSTRUCK (TD1)	8.7	1.3	94.7	23.3	9.0	1.7	96.3	23.3	9.0	1.7	96.3	20.0
KY-31	6.7	2.7	76.7	25.0	6.3	3.3	70.0	36.7	6.0	2.0	68.3	18.3
SCREAMER LS (PPG-TF-148)	9.0	2.3	99.0	26.7	9.0	3.3	99.0	33.3	9.0	2.3	96.3	18.3
WICHITA (PPG-TF-151)	9.0	3.0	99.0	35.0	8.7	4.0	97.7	48.3	9.0	1.3	88.3	18.3
MARAUDER	9.0	2.3	94.7	26.7	8.3	2.3	85.0	25.0	7.3	1.0	80.0	11.7
LSD VALUE	0.4	3.7	3.4	27.1	0.6	3.2	6.6	29.8	0.8	4.1	9.9	33.8
C.V. (%)	2.7	37.0	2.3	28.6	4.1	31.1	4.0	28.3	5.7	45.8	6.4	32.5

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 13.

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	PERCENT GROUND COVER			WINTER	QUALITY RATINGS													MEAN
	COLOR	SPRING	SUMMER	FALL		COLOR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
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	
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	
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	
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	
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	
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	7.3	7.7	8.0	7.3	8.0	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 13.
(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		
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
PST-5BPO	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	
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	
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	
SWAGGER (PST-5R05)	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	
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	
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	

TABLE 13.
(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 SPRING	GROUND SUMMER	COVER FALL	WINTER COLOR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
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	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 14. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/ 1/
2017 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/									
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
ROWDY (SRX-TPC)	4.0	6.0	7.0	8.0	8.0	9.0	8.0	6.3	7.0	7.0
TITANIUM 2LS (PPG-TF-152)	5.0	5.7	7.0	7.3	7.0	7.3	7.3	7.0	7.0	6.7
ANNIHILATOR	6.0	7.3	7.0	6.0	5.7	6.0	7.7	7.0	6.7	6.6
ATF 1612	4.3	7.0	6.3	6.0	6.0	6.7	7.0	7.7	7.3	6.5
GTO (BURL TF-2)	5.0	6.0	6.3	7.0	5.7	7.0	8.0	7.0	6.3	6.5
MICHELANGELO (LTP-F5DPDR)	4.0	6.0	7.0	6.0	7.0	7.3	7.0	7.3	7.0	6.5
MEMPHIS (GO-DFR)	5.0	5.0	6.0	6.0	6.0	7.0	8.0	7.0	7.3	6.4
FAITH	4.0	5.0	6.0	6.0	6.0	7.3	8.0	7.0	6.7	6.2
REBOUNDER (PICK-W43)	4.0	7.0	6.3	6.3	5.3	6.3	7.0	6.3	7.0	6.2
W41	4.0	5.3	7.3	6.3	6.0	7.0	7.0	6.7	6.3	6.2
CROSSFIRE 4 (IS-TF 310 SEL)	4.0	5.0	6.0	6.3	6.7	7.0	7.0	6.7	6.3	6.1
GRANDE 3	5.0	5.0	6.0	6.0	6.0	7.0	7.0	6.3	6.3	6.1
OLYMPUS (RAD-TF-88)	5.0	5.0	5.7	5.7	6.7	7.3	7.3	6.3	6.3	6.1
SCREAMER LS (PPG-TF-148)	3.3	4.7	6.3	5.0	6.3	7.7	8.7	6.3	6.7	6.1
VALKYRIE LS (PPG-TF-172)	4.0	5.3	5.0	6.0	5.7	7.3	8.0	7.3	6.7	6.1
FALCON IV	5.0	6.0	6.3	5.7	7.3	7.0	5.0	5.7	6.0	6.0
SUPERSONIC (PPG-TF-170)	4.0	5.3	4.7	7.0	7.0	7.0	6.7	6.7	5.7	6.0
4TH MILLENNIUM SRP (U43)	3.3	3.7	5.0	5.7	6.0	6.7	7.7	7.0	7.7	5.9
BIZEM	4.3	5.0	7.0	5.7	6.0	6.7	7.3	6.0	5.0	5.9
BULLSEYE	4.0	6.0	7.0	6.3	5.7	4.7	7.3	6.3	5.7	5.9
MERIDIAN (PST-5GRB)	3.7	4.7	6.0	6.3	5.7	7.0	6.7	7.0	6.3	5.9
BAR FA 121095	4.0	4.0	6.0	6.0	6.0	6.0	7.0	6.7	6.3	5.8
FIRECRACKER SLS (PPG-TF-105)	4.0	5.0	6.0	6.0	6.0	6.0	5.7	6.3	6.3	5.7
IS-TF 308 SEL	3.0	5.3	4.7	6.0	5.7	6.7	7.0	6.0	6.0	5.6
K12-MCD	5.0	5.0	5.0	5.0	5.7	6.3	6.3	5.7	6.0	5.6
TEMPTATION (OR-21)	4.0	5.0	5.3	5.3	6.0	6.0	6.0	6.0	6.3	5.6
IS-TF 269 SEL	3.0	4.0	5.3	6.0	6.3	6.0	6.3	6.3	6.0	5.5
PST-5MVD	4.0	4.0	5.3	5.7	6.0	5.7	6.3	6.0	6.3	5.5
XTENDER (PPG-TF-139)	4.0	5.3	5.3	5.7	5.0	6.0	6.0	6.0	6.3	5.5
JS 819	4.0	5.0	5.3	5.3	5.3	6.3	6.0	6.0	5.3	5.4
JS 916	4.0	5.0	5.3	5.0	5.3	5.3	6.0	6.3	6.0	5.4
MET 1	4.0	5.3	4.7	6.0	5.3	5.7	5.0	6.3	6.0	5.4
MET-3	3.3	4.7	5.0	5.3	5.3	6.3	6.0	7.0	6.0	5.4
PST-5DZP	4.0	5.0	5.3	5.0	5.0	6.0	6.7	6.0	6.0	5.4
THUNDERSTRUCK (TD1)	4.3	4.7	5.3	5.7	5.3	6.0	6.3	5.7	5.0	5.4
TRAVERSE 2 SRP (W45)	4.0	5.0	5.3	6.0	5.3	6.0	5.0	6.0	6.3	5.4
BAR FA 121089	3.3	5.3	4.7	5.3	5.0	6.0	5.7	6.3	6.3	5.3
RAIN DANCE (PST-5SDT)	4.0	4.0	5.0	5.3	5.7	6.0	6.0	6.0	6.0	5.3
IS-TF 272	3.0	5.0	5.3	5.3	5.0	5.3	6.3	5.7	6.0	5.2
HEMI	3.0	4.0	4.0	5.7	6.0	6.0	6.0	6.0	5.7	5.1
JS 809	4.0	4.0	6.0	5.0	5.0	6.3	5.0	5.3	5.0	5.1
TEMPLE (DZ1)	3.0	4.0	5.0	6.0	5.7	5.7	6.0	5.0	5.3	5.1
B23	3.0	5.0	4.7	5.3	5.0	6.3	5.7	5.0	5.0	5.0
BAR FA 121091	3.3	4.0	5.0	5.0	4.7	5.0	6.3	6.0	5.7	5.0
HOVER (BURL TF-69)	4.0	4.3	4.0	4.0	4.3	6.3	6.3	6.0	5.7	5.0

TABLE 14.
(CONT'D)MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/ 1/
2017 DATA

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

NAME	QUALITY RATINGS									
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
JS 825	4.0	5.0	5.3	5.3	5.0	5.3	5.0	5.0	5.3	5.0
ATF 1704	3.0	4.3	4.3	5.0	4.7	6.3	4.7	5.3	6.0	4.9
AVENGER II (PPG-TF-156)	3.0	3.0	5.0	6.0	5.0	5.0	5.3	5.3	6.0	4.9
COMP. RES. SST	3.3	4.3	5.3	5.0	4.7	5.0	5.7	5.3	5.3	4.9
K12-05	4.0	4.0	4.0	4.0	5.0	5.3	6.0	6.3	5.3	4.9
MAESTRO (T31)	4.0	4.3	5.0	5.0	5.0	5.3	4.7	5.3	5.3	4.9
PSG-GSD	3.0	4.0	5.3	5.0	4.7	5.3	5.0	6.0	5.3	4.9
PST-5BRK	3.3	3.0	5.3	6.0	5.3	5.0	6.0	5.3	5.0	4.9
ROCKWELL (LTP-TWUU)	3.0	4.0	5.0	5.0	5.3	5.3	5.3	5.3	5.3	4.9
SALTILLO (PST-5SALT)	3.0	3.3	5.0	5.0	4.7	5.3	6.0	6.0	6.0	4.9
HOUNDOG8 (IS-TF 307 SEL)	3.0	4.3	5.7	5.3	4.7	5.3	4.7	5.0	5.0	4.8
KINGDOM (DB1)	4.0	4.0	4.7	5.3	5.0	5.0	4.7	5.3	5.0	4.8
MARAUDER	2.3	4.0	3.7	5.0	4.0	6.3	5.3	6.0	6.3	4.8
THOR (PPG-TF-157)	3.0	4.3	4.0	5.7	4.7	4.7	5.7	6.3	5.0	4.8
TURFWAY (IS-TF 282 M2)	3.0	4.3	4.0	5.3	4.0	4.3	6.3	5.3	6.3	4.8
ATF 1736	3.0	3.0	4.3	5.3	4.0	4.7	5.0	6.0	5.7	4.6
CAESAR (TY 10)	4.0	4.3	4.7	4.3	5.0	5.0	4.3	5.0	5.0	4.6
FOXHOUND (IS-TF 284 M2)	3.7	3.3	4.7	4.3	4.3	4.3	4.7	6.0	5.3	4.5
BAR FA 120878	2.0	5.0	4.0	3.7	4.0	5.3	6.0	5.0	4.3	4.4
HOT ROD (BURL TF-136)	3.0	3.0	4.0	4.7	4.0	5.3	5.0	5.3	5.0	4.4
LEONARDO (LTP-FSD)	2.3	3.0	3.7	5.0	5.0	5.3	5.0	5.3	4.7	4.4
PST-5EX2	2.0	2.7	4.3	5.3	4.7	5.0	5.0	5.3	5.3	4.4
AMITY (CCR2)	2.3	3.7	3.7	5.0	3.7	4.3	6.0	5.0	5.3	4.3
JS 818	3.3	3.0	5.0	4.3	4.3	5.0	4.0	4.3	5.0	4.3
F711	3.0	3.0	3.0	4.3	4.0	4.3	5.0	5.0	6.0	4.2
PARAMOUNT (PPG-TF-137)	2.0	3.0	4.7	4.7	4.7	4.7	4.7	5.0	4.7	4.2
SWAGGER (PST-5R05)	2.0	2.7	4.0	4.0	4.3	4.7	5.0	6.0	5.0	4.2
DYNAMITE LS (PPG-TF-145)	2.0	4.0	4.0	4.3	4.0	5.3	4.3	4.3	4.3	4.1
FRONTLINE (EXP TF-09)	3.0	4.0	4.3	4.0	4.3	4.3	3.7	5.0	4.3	4.1
KY-31	2.0	3.3	4.0	4.3	4.3	4.7	5.3	5.0	4.3	4.1
TECHNIQUE (RZ2)	2.0	3.7	4.0	4.3	4.3	4.7	4.3	5.0	5.0	4.1
TERRANO	3.0	3.3	3.3	4.0	4.0	5.0	4.7	5.3	4.3	4.1
CATALYST	2.7	3.7	4.3	4.0	4.3	4.3	4.3	4.3	4.3	4.0
DIABLO (IS-TF 330)	2.0	3.3	3.7	4.0	4.0	4.7	5.3	5.0	4.3	4.0
FIREBIRD 2	2.0	2.7	4.3	3.7	4.0	3.7	5.0	5.7	4.7	4.0
NIGHTCRAWLER (IS-TF 285)	2.0	3.7	4.0	5.0	3.7	3.7	4.7	4.7	5.0	4.0
PSG-TT4	2.7	2.3	4.0	4.3	4.0	4.7	5.0	5.0	4.0	4.0
ATF 1754	2.0	3.3	2.7	3.0	4.0	5.0	5.0	4.7	5.0	3.9
EMBRACE (PST-5EV2)	3.0	2.7	4.0	3.7	3.7	4.0	4.3	4.7	4.7	3.9
WARHAWK	3.3	3.7	3.3	3.0	4.3	4.7	4.0	4.3	4.3	3.9
K12-13	2.0	3.0	4.0	4.0	4.0	4.3	5.0	4.0	3.7	3.8
RHIZING MOON (IS-TF 305 SEL)	3.0	3.0	4.0	4.0	4.3	4.3	3.3	4.0	4.0	3.8
WICHITA (PPG-TF-151)	2.0	3.0	4.3	4.0	4.0	4.3	4.3	4.3	4.0	3.8
BLOODHOUND (MET 6 SEL)	2.0	2.7	4.3	4.0	3.7	4.0	4.0	4.7	4.0	3.7
REGENERATE	2.3	3.0	3.3	4.0	3.3	4.3	3.3	4.3	4.0	3.6

TABLE 14. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER SHADE AT CARBONDALE, IL 1/ 1/
2017 DATA

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

NAME	MAR	APR	MAY	JUN	QUALITY RATINGS		SEP	OCT	NOV	MEAN
					JUL	AUG				
FALCON V	3.0	3.0	3.3	4.0	4.0	3.3	3.0	4.0	3.0	3.4
RAD-TF-83	1.3	2.0	3.3	3.3	3.0	4.0	5.3	5.0	3.7	3.4
BLACK TAIL (PPG-TF-150)	2.0	3.0	3.0	3.0	3.0	3.3	4.0	4.0	4.0	3.3
AQUADUCT	2.0	3.0	3.7	3.0	3.0	4.3	2.7	3.3	4.0	3.2
FAYETTE (IS-TF 291)	1.3	2.7	3.0	3.3	3.0	3.3	3.0	4.3	5.0	3.2
IS-TF-287	2.0	2.0	3.0	3.3	3.0	2.3	4.3	3.7	4.7	3.1
PST-5BP0	2.0	2.7	4.0	3.0	3.0	3.3	3.3	3.0	3.3	3.1
RAD-TF-92	1.7	3.0	3.0	2.7	3.0	2.7	4.0	3.7	2.7	2.9
REFLECTION (U45)	2.0	2.0	2.7	2.7	3.0	3.3	3.0	4.0	3.3	2.9
RHAMBLER 2 SRP (LSD)	2.0	2.0	2.7	2.7	3.0	2.7	3.0	4.0	3.7	2.9
UNITUS (IS-TF 289)	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.3	3.3	2.9
PPG-TF-115	1.7	2.0	3.0	2.7	3.3	2.7	3.3	3.3	3.3	2.8
PSG-8BP2	2.0	2.3	2.3	2.7	3.3	3.0	4.0	3.0	2.3	2.8
ARES (PPG-TF-142)	2.0	2.0	2.3	3.0	2.7	3.3	3.3	2.7	3.0	2.7
INSPIRATION (PST-R5NW)	2.0	2.0	3.0	3.0	2.7	3.0	3.0	3.0	3.0	2.7
PPG-TF-169	1.7	1.7	3.3	2.7	3.0	2.7	3.0	3.0	3.0	2.7
FESNOVA	1.0	1.0	2.3	3.3	3.0	3.3	3.3	3.0	3.0	2.6
PPG-TF-135	2.0	2.0	1.7	2.0	3.0	2.7	3.3	3.3	3.3	2.6
204 RES. BLK4	1.3	1.3	2.3	2.3	3.0	2.7	3.3	3.3	3.0	2.5
PPG-TF-138	1.3	2.3	2.7	3.0	2.7	3.0	3.0	2.7	2.0	2.5
RAD-TF-89	1.3	1.7	2.0	2.3	3.0	3.0	3.0	3.0	2.3	2.4
IS-TF 276 M2	2.0	2.0	2.3	2.0	2.3	3.0	2.3	2.3	2.0	2.3
PSG-P01	1.3	1.3	1.7	2.0	2.3	3.0	3.0	3.3	3.0	2.3
RAPTOR III (ZW 44)	2.0	2.3	2.0	2.3	2.0	2.0	2.3	2.3	2.3	2.2
FIREWALL (PSG-WE1)	1.3	1.3	2.0	2.0	2.0	2.3	2.0	2.7	2.3	2.0
IS-TF 311	1.0	1.0	1.7	2.0	1.3	2.0	1.3	1.3	1.3	1.4
LSD VALUE	0.6	0.9	0.9	0.9	0.8	1.0	1.1	0.9	0.9	0.5
C.V. (%)	13.3	16.6	13.4	13.4	11.8	12.9	14.7	12.2	12.1	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.

TABLE 15.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN TO EVALUATE BROWN PATCH AT WICHITA, KS 1/
2017 DATA

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

NAME	SPRING GREENUP	LEAF TEXTURE	BROWN PATCH WARM TEMP.	FALL COLOR NOVEMBER	APR	MAY	QUALITY JUN	RATINGS JUL	AUG	SEP	OCT	MEAN
IS-TF 308 SEL	5.0	6.7	5.3	4.7	6.0	6.0	6.0	5.3	5.7	5.3	6.7	5.9
TITANIUM 2LS (PPG-TF-152)	5.7	6.0	4.7	4.3	6.3	6.0	5.7	6.0	4.3	5.0	6.7	5.7
GTO (BURL TF-2)	5.3	6.0	5.0	4.7	6.3	5.3	5.0	5.3	5.7	5.3	6.0	5.6
KINGDOM (DB1)	4.0	5.7	5.0	5.0	6.3	6.0	5.7	5.7	5.0	5.0	5.7	5.6
LEONARDO (LTP-FSD)	5.7	5.7	5.7	5.0	5.3	5.7	5.3	6.0	5.3	5.0	6.3	5.6
MAESTRO (T31)	6.0	6.0	5.0	4.7	6.0	5.3	5.3	5.7	4.7	5.3	6.7	5.6
MET 1	6.7	7.0	5.3	5.7	6.0	5.3	4.7	5.0	5.7	5.3	7.3	5.6
MICHELANGELO (LTP-F5DPDR)	5.3	5.7	5.3	4.7	5.3	5.3	5.3	6.0	5.3	4.7	7.0	5.6
PARAMOUNT (PPG-TF-137)	6.0	6.7	5.7	4.7	5.0	5.7	5.0	6.0	5.7	5.0	7.0	5.6
PPG-TF-135	6.3	6.0	5.3	4.7	5.7	5.7	5.7	5.7	5.3	5.0	6.3	5.6
PSG-P01	5.3	7.0	5.3	5.0	5.3	5.3	5.7	5.7	5.3	5.7	6.3	5.6
RAPTOR III (ZW 44)	6.0	6.7	4.7	4.3	5.3	5.7	5.7	6.0	5.0	4.7	6.7	5.6
REBOUNDER (PICK-W43)	5.7	6.7	5.3	4.7	6.0	4.7	5.7	5.0	5.0	5.7	7.0	5.6
REFLECTION (U45)	6.0	6.7	5.0	5.3	6.0	5.3	4.7	5.3	5.3	5.3	7.0	5.6
TEMPLE (DZ1)	5.0	6.7	5.3	5.0	5.3	5.0	4.7	5.7	6.0	5.3	7.0	5.6
XTENDER (PPG-TF-139)	6.0	6.0	5.0	4.7	6.0	6.0	5.3	5.3	4.7	5.0	6.7	5.6
BIZEM	5.7	6.7	4.7	4.3	5.7	5.7	5.7	5.7	4.3	5.0	6.3	5.5
BLACK TAIL (PPG-TF-150)	6.0	7.3	4.7	4.7	6.3	5.7	5.3	5.0	4.3	5.0	6.7	5.5
HOUNDOG8 (IS-TF 307 SEL)	5.7	6.3	4.3	4.7	6.7	5.7	5.3	5.0	4.7	5.3	5.7	5.5
JS 916	5.3	6.3	4.7	4.7	5.7	5.0	5.0	5.7	5.3	5.3	6.3	5.5
REGENERATE	5.7	6.7	5.0	5.0	5.7	5.0	5.3	5.3	5.3	5.0	6.7	5.5
ROCKWELL (LTP-TWUU)	5.7	6.7	5.3	5.0	5.7	5.3	5.3	5.0	5.3	5.0	7.0	5.5
TRAVERSE 2 SRP (W45)	5.7	7.3	4.3	4.0	6.0	5.7	5.3	5.3	4.3	5.0	6.7	5.5
BLOODHOUND (MET 6 SEL)	6.3	6.3	4.7	5.7	5.7	5.7	4.7	5.0	4.7	5.3	6.7	5.4
F711	6.0	6.3	5.0	4.7	5.7	5.3	5.0	5.0	5.0	5.3	6.7	5.4
FAYETTE (IS-TF 291)	4.7	6.3	5.0	4.3	5.7	5.0	5.0	5.7	5.0	5.3	6.0	5.4
FIREBIRD 2	6.0	5.7	4.3	4.3	6.0	6.0	5.3	5.0	4.7	4.7	6.0	5.4
K12-05	5.0	6.3	4.3	3.0	5.0	6.0	6.3	5.0	4.7	4.7	6.3	5.4
PPG-TF-169	5.7	6.0	5.7	5.3	5.3	4.3	4.7	5.3	5.7	5.7	7.0	5.4
ATF 1612	5.7	6.7	4.7	4.0	6.3	5.3	5.3	4.7	4.7	5.3	5.3	5.3
ATF 1754	6.0	6.3	4.7	5.3	5.7	5.0	5.0	5.3	4.7	5.0	6.7	5.3
FALCON V	4.7	5.7	5.0	5.3	5.3	5.0	5.0	5.3	5.3	5.0	6.0	5.3
FIREWALL (PSG-WE1)	6.0	7.0	4.3	4.3	6.3	5.0	4.7	5.0	4.7	5.0	6.7	5.3
GRANDE 3	5.3	6.0	5.3	5.3	5.0	5.3	4.7	5.3	5.3	5.7	6.0	5.3
HEMI	4.7	6.3	5.0	5.0	5.7	4.7	4.7	5.3	5.3	4.7	6.7	5.3
HOT ROD (BURL TF-136)	5.7	7.0	4.7	5.3	5.3	5.0	4.7	6.0	4.7	5.0	6.7	5.3
IS-TF 276 M2	5.0	5.3	4.3	5.0	6.0	5.0	5.3	5.3	4.7	4.7	6.3	5.3
IS-TF 311	5.3	6.0	5.0	4.3	6.0	4.3	5.0	6.0	5.0	4.7	6.3	5.3
IS-TF-287	4.7	5.7	4.7	4.0	5.7	5.7	5.3	4.7	4.7	5.0	6.0	5.3
PPG-TF-115	4.7	5.3	4.3	5.0	5.7	5.7	5.3	5.3	4.7	4.7	6.0	5.3
RHIZING MOON (IS-TF 305 SEL)	4.3	6.0	4.7	4.3	5.7	5.7	5.3	6.0	4.3	4.7	5.7	5.3
ROWDY (SRX-TPC)	5.7	5.7	4.7	5.0	5.7	5.7	5.7	5.0	4.3	4.3	6.3	5.3
SUPERSONIC (PPG-TF-170)	6.0	6.0	4.0	5.0	5.3	5.0	4.7	5.3	5.0	5.0	6.7	5.3
TECHNIQUE (RZ2)	5.7	6.7	5.0	5.0	5.3	5.0	5.0	5.3	5.3	4.7	6.3	5.3
VALKYRIE LS (PPG-TF-172)	6.0	7.0	4.3	4.3	5.7	5.0	5.3	5.0	4.7	5.0	6.7	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/
2017 DATA

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

NAME	SPRING GREENUP	LEAF TEXTURE	BROWN PATCH WARM TEMP.	FALL COLOR NOVEMBER	APR	MAY	QUALITY JUN	RATINGS JUL	AUG	SEP	OCT	MEAN
ATF 1704	5.7	5.7	4.3	5.3	5.7	5.0	4.7	5.0	4.7	5.0	6.7	5.2
AVENGER II (PPG-TF-156)	6.0	6.0	4.7	4.3	5.7	5.0	4.7	5.3	5.0	5.0	6.0	5.2
CATALYST	5.7	6.3	4.0	4.3	6.0	5.7	5.7	5.0	4.0	4.0	6.0	5.2
CROSSFIRE 4 (IS-TF 310 SEL)	4.7	7.0	4.7	4.7	5.0	5.0	5.3	5.7	4.7	5.0	6.0	5.2
DYNAMITE LS (PPG-TF-145)	4.7	5.7	5.0	4.0	5.0	5.0	4.7	6.0	4.7	4.7	6.3	5.2
HOVER (BURL TF-69)	5.0	6.3	5.3	4.7	5.3	5.7	5.0	4.7	5.0	5.0	6.0	5.2
NIGHTCRAWLER (IS-TF 285)	4.7	6.0	4.3	4.3	5.7	5.3	5.7	5.0	4.7	4.0	6.0	5.2
PPG-TF-138	5.0	5.7	4.3	4.3	5.3	4.7	5.0	5.7	5.0	4.7	6.3	5.2
PST-5BPO	5.7	5.7	4.7	4.0	5.7	5.3	5.0	4.7	5.0	4.7	6.0	5.2
PST-5MVD	5.3	5.7	5.0	4.7	5.3	5.7	4.3	5.7	4.7	4.7	6.3	5.2
SCREAMER LS (PPG-TF-148)	5.7	7.0	4.7	4.7	5.3	5.0	5.0	5.3	4.7	4.7	6.3	5.2
SWAGGER (PST-5R05)	4.7	6.0	5.7	4.7	5.0	5.0	5.0	5.3	5.0	5.0	6.0	5.2
TERRANO	5.7	5.7	4.3	4.3	5.3	5.0	5.0	5.7	4.7	4.7	6.0	5.2
THOR (PPG-TF-157)	5.7	6.0	4.7	5.3	6.0	4.3	5.3	5.3	4.7	5.0	5.7	5.2
THUNDERSTRUCK (TD1)	5.3	6.0	4.3	4.3	6.3	5.7	4.7	5.3	4.0	4.0	6.3	5.2
W41	5.7	6.7	4.3	5.3	5.3	5.0	5.0	4.7	4.3	4.7	7.3	5.2
4TH MILLENNIUM SRP (U43)	5.3	6.7	4.7	4.7	5.0	5.3	4.7	5.3	4.3	4.3	6.7	5.1
AMITY (CCR2)	5.7	7.3	4.7	5.3	5.7	4.7	4.3	5.3	4.7	5.0	6.0	5.1
BULLSEYE	5.0	6.0	4.0	4.7	5.7	5.7	5.0	5.0	4.7	4.0	6.0	5.1
FAITH	6.0	5.7	4.3	4.7	5.7	5.3	4.7	5.3	4.3	4.7	6.0	5.1
FIRECRACKER SLS (PPG-TF-105)	6.0	5.7	4.7	4.7	5.7	5.7	4.3	5.7	3.7	4.7	6.3	5.1
FOXHOUND (IS-TF 284 M2)	4.0	6.7	5.0	4.7	5.3	5.0	4.0	5.3	5.0	5.0	6.3	5.1
MET-3	5.3	6.0	4.7	4.7	5.7	5.0	4.7	5.0	4.3	5.0	6.0	5.1
PST-5BRK	5.3	5.7	5.0	4.3	5.3	4.7	5.0	5.0	5.0	4.7	6.0	5.1
PST-5DZP	4.0	5.7	4.7	4.3	5.0	5.0	4.7	5.3	4.7	4.3	6.7	5.1
RAD-TF-89	5.3	6.0	4.0	4.7	5.3	4.7	5.7	5.3	4.7	4.7	5.7	5.1
RHAMBLER 2 SRP (LSD)	4.3	6.3	4.7	4.7	5.3	5.0	4.7	5.7	4.3	4.7	6.3	5.1
SALTILLO (PST-5SALT)	5.7	5.7	4.3	4.0	5.7	5.0	5.7	5.0	4.3	4.3	5.7	5.1
ARES (PPG-TF-142)	4.3	5.7	4.0	4.0	5.7	5.3	5.3	5.0	4.3	4.3	5.3	5.0
B23	5.7	6.3	3.7	4.0	6.0	5.3	4.7	4.7	4.0	4.0	6.0	5.0
DIABLO (IS-TF 330)	4.7	5.3	4.0	4.3	5.3	5.3	5.0	4.7	4.0	4.7	5.7	5.0
EMBRACE (PST-5EV2)	5.3	6.7	4.7	4.3	5.3	4.7	4.7	5.3	4.7	4.7	6.0	5.0
IS-TF 269 SEL	5.0	6.7	4.0	5.0	5.3	5.0	4.7	5.3	4.0	4.3	6.3	5.0
JS 818	4.3	6.0	4.0	3.7	5.7	5.7	4.3	5.0	4.7	4.7	4.7	5.0
MERIDIAN (PST-5GRB)	4.7	7.0	4.3	4.3	5.0	5.0	5.0	5.7	4.3	4.7	5.3	5.0
PSG-GSD	5.0	6.0	4.7	4.3	5.0	5.0	4.3	4.7	5.0	4.7	6.3	5.0
REBEL V (ATF 1736)	5.0	5.3	4.7	4.0	5.0	4.7	4.7	5.0	4.7	4.7	6.3	5.0
TURFWAY (IS-TF 282 M2)	4.7	6.0	4.3	5.0	5.0	5.0	5.0	5.0	4.7	4.7	6.0	5.0
UNITUS (IS-TF 289)	4.3	6.3	4.3	4.7	5.3	5.3	5.3	4.7	4.0	4.3	6.0	5.0
WICHITA (PPG-TF-151)	5.7	5.7	4.3	5.0	5.7	4.3	5.0	4.7	4.3	4.3	6.3	5.0
BAR FA 121089	4.7	5.0	4.7	4.3	5.3	5.3	4.3	5.3	4.3	4.0	5.7	4.9
FRONTLINE (EXP TF-09)	5.3	5.7	3.7	3.7	5.7	6.0	5.0	5.0	4.0	4.0	4.3	4.9
INSPIRATION (PST-R5NW)	4.3	4.7	4.7	4.3	4.7	4.7	5.0	5.3	5.0	4.3	5.3	4.9
JS 819	4.7	5.3	4.3	4.3	5.3	5.0	4.3	4.7	5.0	4.0	6.0	4.9
K12-MCD	5.0	6.3	3.7	4.3	5.0	4.7	4.7	5.3	4.3	4.0	6.3	4.9

Taken from 2012 Tall Fescue test - 2017 data report with permission from NTEP

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN TO EVALUATE BROWN PATCH AT WICHITA, KS 1/
2017 DATA

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

NAME	SPRING GREENUP	LEAF TEXTURE	BROWN PATCH WARM TEMP.	FALL COLOR NOVEMBER	APR	MAY	QUALITY RATINGS		AUG	SEP	OCT	MEAN
							JUN	JUL				
RAD-TF-92	5.7	6.0	3.7	4.7	5.7	5.0	4.7	4.7	3.7	3.7	6.7	4.9
TEMPTATION (OR-21)	4.0	5.0	4.7	4.7	4.7	5.3	4.7	4.7	4.7	4.3	5.7	4.9
BAR FA 121091	4.3	5.3	4.0	4.0	5.3	5.3	4.7	4.7	4.0	4.3	5.3	4.8
BAR FA 121095	4.3	6.0	4.0	3.7	5.3	5.0	5.3	4.7	4.3	3.7	5.0	4.8
FALCON IV	4.3	5.0	4.3	4.3	5.0	5.0	4.7	4.7	4.7	4.3	5.3	4.8
FESNOVA	5.0	6.0	4.3	5.0	4.7	4.7	4.3	5.3	4.0	4.7	5.7	4.8
JS 825	4.3	5.3	3.7	4.0	5.0	4.7	4.3	5.0	4.7	4.0	5.7	4.8
K12-13	4.0	6.0	4.7	3.7	5.0	5.0	5.3	4.3	4.7	4.0	5.3	4.8
OLYMPUS (RAD-TF-88)	5.0	6.3	3.3	5.0	4.7	5.7	5.0	4.7	3.7	4.0	6.0	4.8
RAD-TF-83	5.0	5.7	3.3	4.7	5.3	5.3	4.7	4.7	3.7	4.0	6.0	4.8
JS 809	3.7	5.7	4.3	3.3	4.3	5.3	4.7	5.7	4.3	3.7	4.7	4.7
PST-5EX2	6.0	4.7	4.3	4.0	5.0	4.3	4.3	5.3	4.7	4.7	4.7	4.7
RAIN DANCE (PST-5SDT)	4.7	4.3	4.3	4.3	5.0	4.3	4.7	4.3	4.7	4.3	5.3	4.7
204 RES. BLK4	5.3	6.7	4.0	4.0	5.7	6.0	4.0	4.7	3.3	3.3	5.0	4.6
CAESAR (TY 10)	4.7	5.7	3.7	4.3	5.3	5.0	4.7	4.3	3.7	3.7	5.7	4.6
MEMPHIS (GO-DFR)	4.3	5.3	3.7	4.7	5.3	5.0	5.0	4.3	3.7	4.0	5.0	4.6
PSG-TT4	4.0	6.0	3.7	4.3	5.0	4.7	4.7	4.3	4.0	4.0	5.3	4.6
AQUADUCT	4.0	4.3	4.3	4.3	5.0	4.3	4.3	5.3	4.3	4.0	4.3	4.5
IS-TF 272	4.0	6.3	4.0	4.3	5.0	5.0	4.3	4.3	3.7	3.3	6.0	4.5
PSG-8BP2	4.3	6.0	4.0	3.3	5.0	4.7	4.3	5.0	4.0	3.7	4.7	4.5
COMP. RES. SST	4.7	6.0	3.3	3.7	5.0	5.3	4.7	4.0	3.3	3.0	4.7	4.3
MARAUDER	4.0	6.3	3.3	3.0	5.0	5.3	4.3	4.7	3.7	3.3	4.0	4.3
BAR FA 120878	4.0	4.0	4.3	4.3	4.3	4.0	4.3	4.3	4.3	4.0	4.3	4.2
WARHAWK	3.7	6.0	4.0	4.7	4.7	4.3	4.0	4.7	3.0	3.7	5.0	4.2
ANNIHILATOR	4.0	6.0	3.0	3.3	4.7	4.7	4.0	4.0	3.0	3.3	4.0	4.0
KY-31	5.0	3.0	4.3	3.7	3.0	3.0	3.0	3.3	3.0	3.0	3.0	3.0
LSD VALUE	1.7	1.0	2.5	1.4	1.3	1.1	1.5	1.9	1.8	1.3	1.2	0.5
C.V. (%)	16.3	10.0	18.5	14.5	11.6	11.1	13.3	13.9	17.3	14.6	11.8	6.4

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

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

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2017 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							
		APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
FAYETTE (IS-TF 291)	3.7	5.0	6.7	7.7	6.0	6.0	6.3	3.0	5.8
IS-TF 272	4.0	4.7	6.7	7.0	5.3	6.3	6.7	3.7	5.8
FIREWALL (PSG-WE1)	4.0	5.7	7.0	7.0	5.3	5.3	5.3	4.0	5.7
IS-TF 311	5.0	5.3	6.7	7.0	5.0	6.0	6.0	3.7	5.7
4TH MILLENNIUM SRP (U43)	4.3	5.0	7.3	7.3	5.3	5.0	6.0	3.3	5.6
KINGDOM (DB1)	3.3	5.0	7.7	7.3	6.3	5.0	5.0	3.0	5.6
LEONARDO (LTP-FSD)	4.0	4.7	6.3	7.0	5.7	5.7	6.0	4.0	5.6
ROCKWELL (LTP-TWUU)	4.7	5.7	7.0	7.0	5.0	5.0	5.7	4.0	5.6
FAITH	4.3	5.7	7.0	6.0	5.3	5.0	5.3	4.0	5.5
UNITUS (IS-TF 289)	4.0	5.0	6.7	7.3	5.7	4.7	5.7	3.3	5.5
FIRECRACKER SLS (PPG-TF-105)	4.3	5.7	7.3	6.3	5.3	4.7	5.0	3.3	5.4
NIGHTCRAWLER (IS-TF 285)	4.0	5.0	7.7	7.3	5.3	4.0	5.0	3.7	5.4
W41	4.0	5.0	7.0	7.0	4.7	5.3	5.3	3.3	5.4
HOT ROD (BURL TF-136)	4.0	5.3	7.0	6.7	5.0	5.0	5.0	3.3	5.3
MAESTRO (T31)	4.7	5.3	6.3	7.0	4.7	5.0	5.0	3.7	5.3
PARAMOUNT (PPG-TF-137)	4.3	5.0	7.3	7.0	5.0	5.0	4.7	3.0	5.3
PPG-TF-115	4.3	5.7	7.7	7.0	4.7	4.7	4.7	3.0	5.3
PST-5BP0	4.0	4.7	6.0	6.7	5.3	5.3	5.3	3.7	5.3
204 RES. BLK4	4.7	3.7	6.3	7.0	4.3	5.3	5.7	4.0	5.2
F711	4.0	5.7	7.7	6.3	5.0	4.7	4.0	3.3	5.2
GTO (BURL TF-2)	4.0	5.0	6.0	7.0	5.0	5.3	5.0	3.3	5.2
IS-TF 269 SEL	3.7	5.0	7.7	7.3	4.7	4.0	4.3	3.3	5.2
MEMPHIS (GO-DFR)	4.3	5.0	6.7	6.3	5.3	5.3	5.0	3.0	5.2
MET-3	3.7	4.7	7.3	7.0	5.0	4.0	5.0	3.7	5.2
PSG-PO1	3.7	4.3	7.0	7.0	5.7	4.7	4.7	3.0	5.2
AMITY (CCR2)	4.0	5.3	7.3	6.7	4.0	4.0	5.0	3.3	5.1
BIZEM	4.0	5.0	6.7	6.7	4.7	5.0	5.0	3.0	5.1
GRANDE 3	3.7	4.3	6.3	6.3	4.7	4.7	5.7	3.7	5.1
HOVER (BURL TF-69)	4.0	4.7	6.7	6.7	5.0	4.3	5.0	3.3	5.1
IS-TF 276 M2	3.7	4.7	7.0	6.7	5.0	4.0	5.3	3.0	5.1
IS-TF 308 SEL	3.7	5.0	7.0	7.0	4.7	4.7	4.3	3.0	5.1
K12-MCD	3.3	4.7	6.0	7.0	5.0	5.3	4.7	3.0	5.1
MET 1	3.7	4.7	7.7	7.0	5.0	4.0	4.3	3.0	5.1
MICHELANGELO (LTP-F5DPDR)	4.0	4.7	7.0	6.3	4.7	4.3	5.3	3.7	5.1
PPG-TF-135	4.3	5.7	7.0	6.7	4.7	4.3	4.3	3.0	5.1
VALKYRIE LS (PPG-TF-172)	3.7	5.0	6.7	6.7	4.7	5.0	5.0	3.0	5.1
XTENDER (PPG-TF-139)	4.0	5.3	7.0	7.0	4.3	4.3	5.0	3.0	5.1
ATF 1754	3.3	4.0	6.3	6.7	4.7	4.3	5.0	3.7	5.0
BULLSEYE	4.3	5.0	7.0	7.0	4.7	4.0	4.3	3.0	5.0
CAESAR (TY 10)	4.0	4.7	7.0	7.0	4.7	4.3	4.0	3.0	5.0
DYNAMITE LS (PPG-TF-145)	4.0	5.7	7.3	7.0	4.7	4.0	3.3	2.7	5.0
FOXHOUND (IS-TF 284 M2)	3.7	4.0	6.3	6.7	6.0	5.0	4.0	2.7	5.0
PSG-8BP2	4.7	5.0	6.0	6.0	5.0	4.7	5.0	3.0	5.0
RAD-TF-89	4.3	5.0	7.0	6.7	4.3	4.3	4.7	3.3	5.0
RAPTOR III (ZW 44)	3.7	4.7	7.0	6.3	4.7	5.0	4.7	3.0	5.0

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2017 DATA

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

NAME	SPRING			QUALITY RATINGS					
	GREENUP	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
REFLECTION (U45)	4.0	4.3	7.7	7.3	5.0	4.0	4.0	3.0	5.0
RHIZING MOON (IS-TF 305 SEL)	3.7	4.3	7.0	6.7	4.7	4.3	4.7	3.0	5.0
SWAGGER (PST-5R05)	4.3	5.3	6.3	6.3	5.0	4.3	4.3	3.0	5.0
AVENGER II (PPG-TF-156)	4.0	4.3	6.3	7.7	4.0	4.3	4.3	3.3	4.9
CATALYST	4.0	5.0	6.7	6.3	4.7	4.7	3.7	3.0	4.9
COMP. RES. SST	4.0	4.0	6.7	6.7	4.3	4.3	5.0	3.0	4.9
DIABLO (IS-TF 330)	4.0	5.0	7.0	7.0	5.0	3.7	3.7	2.7	4.9
FALCON V	4.0	5.0	6.7	6.3	4.3	4.3	4.3	3.0	4.9
PST-5BRK	4.0	5.3	6.3	5.7	5.0	4.7	4.0	3.0	4.9
PST-5DZP	3.3	4.3	6.0	6.3	4.3	5.0	5.0	3.0	4.9
PST-5MVD	3.7	4.7	6.3	6.3	5.0	4.3	4.3	3.0	4.9
RAIN DANCE (PST-5SDT)	4.0	4.7	5.7	5.3	5.0	5.0	5.3	3.0	4.9
REBOUNDER (PICK-W43)	3.3	4.3	6.7	7.0	5.0	4.0	4.7	2.7	4.9
ROWDY (SRX-TPC)	3.3	4.7	6.3	6.3	4.7	4.7	4.3	3.0	4.9
SALTILLO (PST-5SALT)	3.7	5.0	6.3	6.3	4.7	5.0	4.0	3.0	4.9
TEMPTATION (OR-21)	4.0	5.0	6.7	6.7	5.3	4.0	4.3	2.0	4.9
TERRANO	3.7	4.7	6.7	6.0	4.7	4.7	4.7	3.0	4.9
THUNDERSTRUCK (TD1)	3.3	5.0	7.0	7.0	4.3	3.7	4.3	3.0	4.9
TRAVERSE 2 SRP (W45)	4.0	5.3	7.3	6.7	5.0	3.0	3.7	3.0	4.9
WICHITA (PPG-TF-151)	4.0	4.7	6.7	6.3	5.3	4.0	4.3	2.7	4.9
ARES (PPG-TF-142)	4.0	5.0	7.3	6.3	4.0	4.3	4.3	2.0	4.8
B23	3.7	4.3	7.7	7.0	4.3	4.0	3.7	2.3	4.8
BLOODHOUND (MET 6 SEL)	3.7	4.3	6.3	6.7	4.7	4.0	4.7	3.0	4.8
FRONTLINE (EXP TF-09)	4.3	5.3	6.3	5.7	4.7	4.7	4.3	2.7	4.8
HEMI	4.7	6.3	7.3	6.7	3.7	3.3	4.0	2.3	4.8
HOUND0G8 (IS-TF 307 SEL)	4.0	5.0	7.7	6.3	4.3	3.7	4.0	2.3	4.8
INSPIRATION (PST-R5NW)	3.7	5.0	5.7	6.3	5.0	4.7	4.0	3.0	4.8
K12-05	3.7	4.7	7.0	7.3	3.7	4.0	4.0	3.0	4.8
OLYMPUS (RAD-TF-88)	4.0	5.3	6.7	7.3	4.0	3.7	3.3	3.3	4.8
PPG-TF-169	4.0	4.3	6.0	6.7	4.3	4.0	5.0	3.3	4.8
PSG-GSD	4.0	5.0	6.3	6.3	4.3	4.3	4.3	3.0	4.8
RAD-TF-83	3.7	4.7	7.0	6.3	5.0	3.3	4.0	3.0	4.8
REBEL V (ATF 1736)	3.3	4.0	6.0	5.7	4.7	4.7	5.0	3.3	4.8
REGENERATE	3.3	4.7	7.3	7.0	4.7	3.3	4.0	2.7	4.8
SCREAMER LS (PPG-TF-148)	4.0	4.7	6.0	6.0	4.7	5.0	4.3	3.0	4.8
TITANIUM 2LS (PPG-TF-152)	4.0	5.0	6.7	7.0	4.3	4.0	3.7	3.0	4.8
ATF 1612	4.0	4.7	6.0	6.7	4.7	4.7	3.7	2.7	4.7
ATF 1704	4.3	5.0	5.7	6.0	5.0	4.3	4.0	3.0	4.7
BAR FA 121095	3.7	4.7	6.3	7.0	4.3	3.3	4.3	3.0	4.7
CROSSFIRE 4 (IS-TF 310 SEL)	3.0	4.3	6.7	6.7	4.3	4.0	4.0	3.0	4.7
EMBRACE (PST-5EV2)	4.0	5.0	6.0	5.7	4.7	4.0	4.7	2.7	4.7
FESNOVA	4.0	4.7	6.7	6.7	4.3	4.0	4.0	2.3	4.7
FIREBIRD 2	3.7	4.3	7.3	7.3	4.3	3.7	3.7	2.3	4.7
K12-13	3.7	4.0	6.7	6.7	4.0	4.0	4.7	3.0	4.7
MERIDIAN (PST-5GRB)	5.0	5.7	6.0	6.3	4.7	4.0	4.0	2.3	4.7

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2017 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
RAD-TF-92	3.3	4.7	7.0	7.3	4.3	3.3	3.7	2.7	4.7
THOR (PPG-TF-157)	3.3	5.0	6.7	7.0	4.3	3.3	4.3	2.3	4.7
ANNIHILATOR	3.7	4.7	6.3	6.0	4.3	4.3	4.3	2.3	4.6
BLACK TAIL (PPG-TF-150)	3.3	4.7	6.7	6.7	4.0	3.7	3.7	3.0	4.6
FALCON IV	3.7	5.0	5.7	5.7	4.7	4.0	4.0	3.0	4.6
JS 809	4.0	4.7	6.0	6.3	4.7	4.3	4.0	2.0	4.6
JS 916	3.7	4.7	7.3	6.3	4.0	3.7	3.3	2.7	4.6
RHAMBLER 2 SRP (LSD)	4.0	5.3	6.7	6.7	4.0	3.7	3.7	2.0	4.6
SUPERSONIC (PPG-TF-170)	3.7	5.0	6.3	6.3	4.0	3.3	4.0	3.0	4.6
BAR FA 121091	4.0	4.3	6.3	6.0	4.3	4.0	4.0	2.3	4.5
TEMPLE (DZ1)	3.3	4.0	7.0	6.3	4.3	4.0	3.3	2.7	4.5
JS 818	3.3	4.3	6.7	5.7	4.7	4.0	3.3	2.0	4.4
JS 819	4.3	4.7	6.7	6.3	4.0	3.0	3.7	2.7	4.4
PST-5EX2	4.0	5.3	4.3	5.0	4.7	4.3	4.3	3.0	4.4
TURFWAY (IS-TF 282 M2)	3.3	4.0	7.0	7.0	3.7	3.3	3.3	2.3	4.4
BAR FA 121089	4.0	5.0	5.7	5.3	4.0	4.3	3.3	2.3	4.3
MARAUDER	4.0	4.3	5.7	5.7	4.0	4.3	4.0	2.3	4.3
PPG-TF-138	3.3	5.0	6.7	6.0	3.7	3.7	3.3	2.0	4.3
JS 825	3.7	4.3	6.3	5.3	4.0	4.0	3.0	2.7	4.2
PSG-TT4	3.7	4.3	5.0	6.0	3.3	4.0	4.0	2.7	4.2
TECHNIQUE (RZ2)	4.0	4.7	6.3	6.3	3.3	3.3	3.3	2.3	4.2
WARHAWK	3.7	4.7	5.3	5.0	4.7	4.0	3.7	2.3	4.2
AQUADUCT	3.7	4.0	5.3	5.3	4.3	4.0	3.0	2.7	4.1
IS-TF-287	3.3	4.3	6.0	6.3	4.3	2.7	2.7	2.7	4.1
BAR FA 120878	4.0	4.7	4.0	4.7	3.7	3.0	3.0	2.3	3.6
KY-31	4.3	3.7	2.7	2.3	3.3	3.7	2.3	1.3	2.8
LSD VALUE	2.0	2.3	1.2	1.3	2.2	2.2	3.1	1.1	0.9
C.V. (%)	15.3	15.1	10.8	11.1	17.4	21.4	26.0	18.9	9.8

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 17. GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/													
NAME	CA3	CT1	GA1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ2	TN1	MEAN
DIABLO (IS-TF 330)	8.0	9.0	6.0	6.7	6.7	7.0	6.7	7.3	8.0	5.7	8.0	7.3	7.2
ARES (PPG-TF-142)	8.0	9.0	6.0	7.3	7.0	6.7	6.7	7.3	8.0	6.0	7.3	7.0	7.2
TEMPTATION (OR-21)	8.0	9.0	6.0	6.0	7.0	7.0	7.3	7.3	8.0	5.3	8.3	7.0	7.2
FOXHOUND (IS-TF 284 M2)	7.7	8.7	6.3	7.0	7.0	6.7	6.3	7.0	8.3	5.0	8.7	7.0	7.1
RHIZING MOON (IS-TF 305 SEL)	8.0	7.7	6.0	6.3	7.0	7.0	7.3	7.0	8.0	5.7	8.0	7.3	7.1
TRENDING (IS-TF 269 SEL)	7.7	8.3	7.0	6.7	6.7	7.0	6.3	6.7	8.0	5.7	8.3	7.0	7.1
IS-TF 272	8.0	8.7	6.3	6.3	7.0	6.7	6.7	7.0	7.7	5.7	8.3	7.0	7.1
TURFWAY (IS-TF 282 M2)	8.0	8.3	6.3	7.0	6.7	7.0	6.3	7.3	8.0	5.3	8.0	7.0	7.1
KINGDOM (DB1)	8.0	8.7	6.3	7.0	6.3	7.0	6.0	7.0	8.0	5.3	8.7	6.7	7.1
THUNDERSTRUCK (TD1)	8.0	7.7	6.7	6.3	6.7	7.0	6.3	7.0	8.0	5.7	8.3	7.3	7.1
DYNAMITE LS (PPG-TF-145)	7.7	7.7	6.7	6.3	6.7	7.0	7.0	6.7	8.0	6.0	8.3	7.0	7.1
K12-05	8.0	9.0	6.0	6.0	6.7	7.0	7.0	7.0	8.0	5.3	8.3	6.7	7.1
FAYETTE (IS-TF 291)	8.0	8.0	6.7	7.0	6.3	6.7	6.0	7.0	8.0	5.7	8.3	7.0	7.1
B23	7.7	7.3	6.3	6.7	7.0	7.0	6.3	7.0	8.0	5.3	8.3	6.7	7.0
FRONTLINE (EXP TF-09)	8.0	9.0	6.0	6.7	7.0	6.3	6.0	7.0	8.0	5.7	7.7	6.3	7.0
IS-TF 276 M2	7.7	8.0	6.0	7.3	6.7	6.7	6.3	6.3	7.7	5.7	8.0	7.3	7.0
REGENERATE	8.0	7.0	6.3	6.7	6.7	7.0	5.7	7.0	8.3	5.0	9.0	7.0	7.0
HOUNDOG8 (IS-TF 307 SEL)	7.7	7.7	6.0	6.7	6.3	7.0	6.7	7.0	8.0	5.3	8.0	7.0	6.9
JS 818	8.0	8.7	5.7	6.3	6.3	6.7	6.3	7.0	8.0	5.3	8.3	6.7	6.9
JS 819	7.7	8.0	6.7	6.7	6.3	6.7	7.0	7.0	8.0	5.3	8.0	6.0	6.9
MEMPHIS (GO-DFR)	8.0	8.0	6.0	6.3	7.0	6.7	6.3	6.7	8.0	5.7	7.3	7.3	6.9
HOVER (BURL TF-69)	7.3	7.7	6.0	7.0	6.3	7.0	6.3	7.0	8.0	5.0	8.7	6.7	6.9
PPG-TF-115	7.7	8.0	6.7	7.3	7.0	7.0	5.3	7.0	8.0	5.3	7.0	6.7	6.9
THOR (PPG-TF-157)	7.7	8.3	5.7	7.0	6.0	6.7	7.0	6.7	8.0	5.0	8.3	6.7	6.9
PSG-P01	7.7	7.0	6.3	7.7	7.0	6.7	6.0	7.0	8.0	5.0	7.7	6.7	6.9
REBOUNDER (PICK-W43)	7.7	7.7	6.0	7.0	6.3	7.0	5.7	7.0	8.0	5.3	7.7	7.3	6.9
JS 809	8.0	8.0	6.0	6.0	7.0	6.7	6.0	7.0	8.0	5.7	8.3	6.0	6.9
UNITUS (IS-TF 289)	8.0	8.7	6.0	6.0	6.3	7.0	6.7	7.0	8.0	5.7	7.3	6.0	6.9
FESNOVA	8.0	7.0	6.0	7.0	6.3	7.0	6.0	7.0	8.3	5.3	7.7	6.7	6.9
K12-13	8.0	8.3	6.0	6.0	6.0	7.0	6.0	7.0	8.0	6.0	7.7	6.3	6.9
NIGHTCRAWLER (IS-TF 285)	8.0	7.7	6.0	6.3	6.3	7.0	6.3	6.3	8.0	5.7	8.0	6.7	6.9
CAESAR (TY 10)	7.7	7.7	6.7	6.0	6.3	6.7	5.7	7.0	8.0	5.7	8.3	6.7	6.9
FIRECRACKER SLS (PPG-TF-105)	8.0	7.7	6.3	6.3	7.0	7.0	5.7	7.0	7.7	5.0	8.0	6.7	6.9
FIREWALL (PSG-WE1)	8.0	7.0	6.0	6.7	6.7	7.0	5.7	7.0	8.0	5.0	8.0	7.3	6.9
PST-5DZP	7.7	7.3	6.7	6.7	6.3	7.0	6.7	7.0	8.0	5.7	7.3	6.0	6.9
4TH MILLENNIUM SRP (U43)	7.7	7.0	7.0	6.0	6.3	6.7	5.7	7.0	8.0	5.7	8.3	6.7	6.8
BAR FA 121091	8.0	8.0	6.0	6.3	6.7	6.0	6.0	6.7	7.7	6.0	8.0	6.7	6.8
CROSSFIRE 4 (IS-TF 310 SEL)	8.0	7.7	6.0	6.3	5.7	7.0	6.7	6.7	8.0	5.3	8.0	6.7	6.8
TEMPLE (DZ1)	8.0	7.0	6.3	7.3	6.3	7.0	5.7	7.0	8.0	5.0	7.7	6.7	6.8
TRAVERSE 2 SRP (W45)	7.3	6.3	6.3	7.0	6.3	7.0	6.7	7.0	8.0	5.0	7.3	7.7	6.8
REFLECTION (U45)	7.3	7.0	6.3	6.7	6.3	6.7	5.7	7.0	8.0	5.3	8.0	7.3	6.8
ROWDY (SRX-TPC)	8.0	7.0	6.0	6.7	6.7	7.0	5.7	7.0	8.0	5.0	7.3	7.3	6.8
JS 825	7.7	7.7	6.0	6.3	6.3	6.7	6.3	7.0	7.7	5.3	7.7	6.7	6.8
PPG-TF-138	8.0	7.3	6.0	6.3	6.7	7.0	5.7	7.0	8.0	5.3	7.7	6.3	6.8
RAD-TF-92	7.7	7.0	6.7	5.7	6.3	6.7	5.7	7.0	8.0	5.0	8.7	7.0	6.8
RAPTOR III (ZW 44)	8.0	6.7	6.0	7.7	6.7	7.0	5.7	6.3	8.0	4.7	7.3	7.3	6.8

TABLE 17.
(CONT'D)GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	CT1	GA1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ2	TN1	MEAN
TITANIUM 2LS (PPG-TF-152)	8.0	7.0	6.3	6.0	6.0	7.3	6.3	7.0	8.0	5.3	7.7	6.3	6.8
W41	7.7	6.7	6.3	7.0	6.3	7.0	5.7	6.3	8.0	5.0	8.0	7.3	6.8
RAD-TF-83	8.0	6.3	6.5	6.7	7.0	6.7	5.7	7.0	8.0	5.0	8.3	6.0	6.8
TRINITY (BIZEM)	7.7	6.0	6.3	6.7	6.7	7.0	6.0	7.0	8.0	5.0	8.0	6.7	6.8
FAITH	7.3	6.7	6.3	6.7	6.3	7.0	6.3	6.7	7.7	5.3	8.0	6.7	6.8
AMITY (CCR2)	7.3	6.7	6.3	6.7	6.7	6.7	6.0	7.0	8.0	5.3	7.3	7.0	6.8
IS-TF 311	7.7	7.3	6.0	6.0	6.7	7.0	6.0	7.0	8.0	5.0	7.0	7.3	6.8
OLYMPUS (RAD-TF-88)	7.7	6.3	7.0	5.3	6.7	7.0	5.7	7.0	8.0	5.7	8.3	6.3	6.8
BAR FA 121095	7.7	7.7	6.7	6.0	6.3	6.5	5.7	7.0	7.7	5.0	8.3	6.3	6.7
RAD-TF-89	7.7	6.3	6.0	6.7	6.7	6.0	6.0	7.0	8.0	5.7	8.0	6.7	6.7
ROCKWELL (LTP-TWUU)	7.7	7.0	6.3	7.3	6.7	7.0	5.3	7.0	8.0	4.7	8.0	5.7	6.7
STANDOUT (IS-TF 308 SEL)	8.0	7.3	6.3	6.0	6.0	7.3	6.0	7.0	8.0	4.3	7.7	6.7	6.7
PSG-8BP2	8.0	7.3	6.0	7.0	6.0	6.7	5.7	7.0	8.0	5.3	7.7	6.0	6.7
FIREBIRD 2	8.0	6.7	6.3	6.3	6.3	7.0	5.7	7.0	8.0	5.0	7.7	6.3	6.7
GTO (BURL TF-2)	8.0	6.3	6.0	6.3	6.7	7.0	6.3	7.0	7.7	4.7	8.0	6.3	6.7
JS 916	8.0	7.0	6.0	6.3	6.0	7.0	5.7	7.0	8.0	5.3	8.0	6.0	6.7
RHAMBLER 2 SRP (LSD)	7.3	6.7	7.0	6.0	6.3	7.0	6.7	6.7	8.0	5.3	7.0	6.3	6.7
WICHITA (PPG-TF-151)	7.3	7.0	6.3	6.3	6.7	7.0	6.3	6.7	8.3	5.0	7.0	6.3	6.7
XTENDER (PPG-TF-139)	7.3	7.3	6.3	6.0	6.7	7.3	6.0	7.0	7.7	5.3	7.3	6.0	6.7
FALCON IV	8.0	7.3	6.0	6.7	6.3	7.0	6.0	7.0	8.0	5.0	6.7	6.0	6.7
BULLSEYE	7.3	7.0	6.0	6.0	7.0	7.0	6.0	7.0	7.7	5.3	7.7	6.0	6.7
INSPIRATION (PST-R5NW)	8.0	7.3	6.0	7.3	6.3	7.0	6.0	6.3	8.0	5.3	6.3	6.0	6.7
PST-5MVD	8.0	7.3	6.3	6.3	7.0	7.0	5.3	6.3	8.0	4.7	7.3	6.3	6.7
TERRANO	7.3	7.7	6.7	7.0	7.0	6.7	5.7	6.3	8.0	5.3	6.3	6.0	6.7
MICHELANGELO (LTP-F5DPDR)	7.7	7.0	6.3	7.0	6.0	7.3	5.3	6.7	8.0	5.0	6.7	6.7	6.6
IS-TF-287	8.0	6.3	6.0	6.0	6.7	6.3	5.7	6.7	7.3	5.7	8.0	7.0	6.6
LEONARDO (LTP-FSD)	7.7	6.0	6.0	7.7	6.3	7.0	5.7	7.0	8.0	5.3	7.0	6.0	6.6
VALKYRIE LS (PPG-TF-172)	7.7	7.0	6.3	6.0	6.3	7.0	5.7	6.3	8.0	5.3	8.0	6.0	6.6
AVENGER II (PPG-TF-156)	7.3	6.7	6.0	6.0	6.7	7.0	6.0	7.0	8.0	5.0	7.7	6.3	6.6
BAR FA 121089	8.0	6.3	6.0	6.3	6.7	6.7	6.0	7.0	7.7	5.3	7.7	6.0	6.6
EMBRACE (PST-5EV2)	7.7	5.7	6.3	7.0	6.7	7.0	6.0	7.0	7.7	5.0	7.3	6.3	6.6
HEMI	7.7	6.3	6.0	6.0	6.7	7.0	6.0	7.0	8.0	5.0	7.3	6.7	6.6
K12-MCD	8.0	6.7	6.3	6.7	6.3	6.7	5.3	7.0	8.0	5.3	6.3	7.0	6.6
MAESTRO (T31)	7.7	6.7	6.3	5.7	6.3	7.0	5.7	7.0	8.0	5.0	7.3	6.7	6.6
PARAMOUNT (PPG-TF-137)	7.7	6.3	6.0	6.3	6.0	7.0	6.0	7.0	8.0	5.0	7.3	6.7	6.6
BLACK TAIL (PPG-TF-150)	7.3	6.7	5.7	7.0	7.0	7.0	5.7	6.3	8.0	4.7	7.0	6.7	6.6
ANNIHILATOR	8.0	6.0	6.7	6.3	6.7	6.3	6.7	6.7	7.7	5.0	7.0	6.0	6.6
GRANDE 3	7.3	6.3	6.0	6.7	6.7	6.7	6.3	6.3	7.3	5.3	7.7	6.3	6.6
MET 1	7.7	5.3	6.3	6.3	6.7	7.0	5.3	6.7	8.0	5.0	8.0	6.7	6.6
VERT (ATF 1612)	7.7	6.7	6.0	5.3	6.7	7.0	5.7	7.0	8.3	4.7	7.7	6.0	6.6
SCREAMER LS (PPG-TF-148)	7.7	6.3	6.0	7.3	6.3	7.0	5.3	6.3	7.7	4.3	8.3	6.0	6.6
CATALYST	8.0	6.0	6.3	6.7	6.3	7.0	5.7	7.0	7.7	4.7	6.7	6.3	6.5
PPG-TF-135	7.7	6.0	6.0	7.0	6.7	7.0	5.7	7.0	8.0	4.0	7.3	6.0	6.5
REBEL V (ATF 1736)	7.3	5.7	6.7	7.0	6.7	7.0	5.3	7.0	7.0	5.3	7.3	6.0	6.5
SALTILLO (PST-5SALT)	7.0	6.3	5.7	7.0	6.7	6.7	6.0	7.0	8.0	4.7	7.0	6.3	6.5
HOT ROD (BURL TF-136)	8.0	5.7	6.0	6.0	6.7	7.0	5.0	7.0	8.0	5.0	7.0	6.7	6.5
TECHNIQUE (RZ2)	8.0	5.7	6.0	6.3	6.3	7.0	5.0	7.0	8.0	5.0	7.0	6.7	6.5

TABLE 17.
(CONT'D)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	CT1	GA1	IA1	IL1	IN1	MO1	MS1	NC1	NE1	NJ2	TN1	MEAN
F711	7.7	5.3	6.0	7.3	6.0	6.7	6.0	6.3	8.0	5.0	6.7	7.0	6.5
MET-3	7.7	5.3	6.0	6.3	6.7	6.7	5.7	7.0	8.0	4.3	7.7	6.7	6.5
PST-5BP0	7.7	6.3	6.3	6.0	5.7	7.0	5.3	6.7	7.7	5.0	7.3	6.7	6.5
SUPERSONIC (PPG-TF-170)	7.7	6.3	6.3	6.0	6.3	7.0	6.0	7.0	7.3	4.3	6.7	6.7	6.5
PSG-GSD	8.0	6.3	6.0	6.3	6.0	7.0	6.0	7.0	8.0	5.3	6.3	5.3	6.5
FALCON V	7.7	5.7	6.0	6.7	6.7	7.0	5.7	6.3	8.0	5.0	7.3	5.3	6.4
WARHAWK	7.7	6.3	6.3	5.3	6.3	6.3	5.7	6.7	8.0	5.3	7.7	5.7	6.4
MARAUDER	7.7	5.7	6.7	6.3	6.3	7.0	5.3	7.0	7.7	5.0	7.3	5.3	6.4
RAIN DANCE (PST-5SDT)	7.3	5.0	6.3	7.3	6.3	6.7	6.0	7.0	7.7	5.3	6.0	6.0	6.4
PSG-TT4	8.0	6.7	6.0	6.0	6.0	6.3	5.3	6.7	7.7	5.3	7.0	5.7	6.4
AQUADUCT	8.0	7.0	6.0	6.0	6.7	6.3	5.7	6.3	7.3	4.7	7.3	5.0	6.4
PPG-TF-169	7.7	6.0	6.0	6.7	7.0	6.7	5.0	7.0	7.7	4.3	6.3	6.0	6.4
BLOODHOUND (MET 6 SEL)	7.3	5.3	6.0	7.3	6.3	7.0	5.0	6.7	7.0	5.0	7.0	6.0	6.3
SWAGGER (PST-5R05)	7.7	6.0	6.0	5.7	6.0	6.7	6.0	7.0	8.0	5.3	6.3	5.3	6.3
204 RES. BLK4	7.0	5.0	6.3	7.0	6.0	6.7	5.3	6.7	8.0	5.0	7.0	5.7	6.3
ATF 1754	7.7	5.0	6.3	7.0	6.7	7.0	5.0	6.7	7.3	4.7	6.3	6.0	6.3
PST-5BRK	7.7	5.7	6.0	6.3	6.0	7.0	5.7	6.3	8.0	4.7	6.3	5.7	6.3
MERIDIAN (PST-5GRB)	7.3	5.7	6.0	5.0	6.3	6.7	5.3	7.0	8.0	4.3	6.7	5.7	6.2
ATF 1704	7.0	5.3	6.0	5.7	6.3	7.0	5.0	6.7	7.3	4.3	6.7	6.7	6.2
COMP. RES. SST	7.3	6.3	6.3	5.3	5.7	5.7	5.7	6.7	8.0	5.3	6.3	5.3	6.2
PST-5EX2	7.7	5.3	6.0	6.3	6.0	6.7	4.7	6.3	6.7	4.7	4.7	4.7	5.8
BAR FA 120878	8.0	5.7	6.0	6.3	5.7	6.3	5.3	5.0	6.3	4.7	3.7	6.0	5.8
KY-31	6.0	2.0	4.3	6.3	4.0	3.3	3.3	4.0	5.7	3.0	1.0	2.7	3.8
LSD VALUE	0.7	1.6	0.7	1.4	0.9	0.6	1.0	0.6	0.5	0.8	1.2	1.0	0.3
C.V. (%)	5.6	14.0	7.0	13.6	8.9	5.8	10.6	5.0	4.0	10.2	9.9	10.0	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.

TABLE 18. SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CT1	IL1	MS1	NE1	NJ1	MEAN
FALCON IV	5.7	8.0	7.0	3.0	7.0	6.1
THOR (PPG-TF-157)	6.3	8.0	7.0	3.0	6.3	6.1
PST-5EX2	5.7	6.7	6.0	4.0	8.0	6.1
GRANDE 3	7.0	7.0	6.3	3.3	6.7	6.1
MET 1	6.3	6.7	7.0	4.0	6.3	6.1
RAPTOR III (ZW 44)	5.0	7.3	7.0	4.0	7.0	6.1
FALCON V	6.3	7.7	6.7	2.7	6.7	6.0
MICHELANGELO (LTP-F5DPDR)	6.7	7.3	7.0	3.0	6.0	6.0
PPG-TF-169	6.3	6.7	7.0	3.0	6.7	5.9
4TH MILLENNIUM SRP (U43)	5.7	7.3	7.0	3.3	6.3	5.9
KY-31	5.0	6.0	6.0	4.0	8.7	5.9
IS-TF-287	5.7	8.0	6.7	3.0	6.0	5.9
PPG-TF-135	6.0	6.7	7.0	3.7	6.0	5.9
REBEL V (ATF 1736)	6.0	7.3	6.7	2.7	6.7	5.9
CATALYST	5.3	7.7	7.0	3.0	6.3	5.9
F711	6.3	6.7	7.0	3.3	6.0	5.9
GTO (BURL TF-2)	6.3	6.7	7.0	3.0	6.3	5.9
HOT ROD (BURL TF-136)	5.7	7.3	7.0	3.3	6.0	5.9
RAD-TF-83	5.3	8.0	7.0	3.0	6.0	5.9
REBOUNDER (PICK-W43)	5.3	7.7	7.0	3.3	6.0	5.9
SCREAMER LS (PPG-TF-148)	5.7	6.7	7.0	3.0	6.7	5.8
AMITY (CCR2)	5.7	7.0	6.7	3.3	6.3	5.8
AVENGER II (PPG-TF-156)	5.7	6.7	6.7	3.7	6.3	5.8
BLACK TAIL (PPG-TF-150)	6.0	6.3	6.7	3.7	6.3	5.8
CAESAR (TY 10)	5.3	8.0	7.0	3.0	5.7	5.8
FAITH	6.3	6.7	6.7	3.3	6.0	5.8
FAYETTE (IS-TF 291)	6.0	7.3	7.0	3.0	5.7	5.8
IS-TF 311	5.3	7.7	7.0	3.0	6.0	5.8
K12-MCD	5.7	7.7	6.3	3.0	6.3	5.8
REGENERATE	5.7	7.0	7.0	3.0	6.3	5.8
ROCKWELL (LTP-TWUU)	5.7	7.0	7.0	3.3	6.0	5.8
PSG-GSD	5.0	7.3	7.0	3.3	6.3	5.8
204 RES. BLK4	5.7	7.3	6.7	3.0	6.0	5.7
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	7.0	7.0	3.3	5.7	5.7
FIRECRACKER SLS (PPG-TF-105)	5.7	8.0	6.7	3.0	5.3	5.7
PST-5BP0	5.0	7.0	7.0	3.0	6.7	5.7
PST-5BRK	6.7	7.0	6.7	3.0	5.3	5.7
REFLECTION (U45)	6.0	7.0	7.0	3.0	5.7	5.7
SUPERSONIC (PPG-TF-170)	5.3	6.7	7.0	3.7	6.0	5.7
VERT (ATF 1612)	6.0	6.7	7.0	3.0	6.0	5.7
BAR FA 121089	4.0	7.3	7.0	3.0	7.3	5.7
BLOODHOUND (MET 6 SEL)	5.3	7.0	7.0	3.0	6.3	5.7
W41	5.3	7.3	7.0	3.3	5.7	5.7
EMBRACE (PST-5EV2)	5.7	7.0	7.0	3.0	5.7	5.7
MET-3	5.7	7.0	6.7	3.0	6.0	5.7
PPG-TF-138	5.3	7.7	6.7	3.0	5.7	5.7

TABLE 18. SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/						
NAME	CT1	IL1	MS1	NE1	NJ1	MEAN
PSG-P01	6.0	6.7	7.0	3.0	5.7	5.7
TEMPLE (DZ1)	5.7	6.7	7.0	3.0	6.0	5.7
ATF 1704	5.0	7.0	6.3	3.0	7.0	5.7
BAR FA 120878	4.3	6.0	6.0	3.0	8.7	5.6
FRONTLINE (EXP TF-09)	5.3	8.0	7.0	3.0	4.7	5.6
PSG-TT4	5.7	5.7	6.3	3.0	7.3	5.6
STANDOUT (IS-TF 308 SEL)	5.3	7.0	7.0	3.3	5.3	5.6
TITANIUM 2LS (PPG-TF-152)	5.3	6.7	7.0	3.0	6.0	5.6
TRAVERSE 2 SRP (W45)	5.0	7.0	6.7	3.3	6.0	5.6
TURFWAY (IS-TF 282 M2)	5.0	7.3	6.7	3.3	5.7	5.6
WICHITA (PPG-TF-151)	5.0	7.0	6.7	3.0	6.3	5.6
FESNOVA	5.3	7.0	6.3	3.0	6.0	5.5
FIREWALL (PSG-WE1)	5.0	7.0	6.3	3.3	6.0	5.5
FOXHOUND (IS-TF 284 M2)	5.0	7.3	7.0	3.0	5.3	5.5
HOVER (BURL TF-69)	4.7	6.7	6.7	3.3	6.3	5.5
INSPIRATION (PST-R5NW)	5.0	7.3	6.3	3.3	5.7	5.5
MAESTRO (T31)	5.0	6.7	6.7	3.0	6.3	5.5
PST-5MVD	5.7	6.3	6.3	3.0	6.3	5.5
ROWDY (SRX-TPC)	4.3	7.0	7.0	3.3	6.0	5.5
TRENDING (IS-TF 269 SEL)	5.0	7.3	7.0	3.3	5.0	5.5
VALKYRIE LS (PPG-TF-172)	4.7	6.7	7.0	3.3	6.0	5.5
B23	5.3	6.7	6.7	3.0	5.7	5.5
FIREBIRD 2	4.7	7.0	6.7	3.0	6.0	5.5
JS 916	4.3	7.7	7.0	3.0	5.3	5.5
PARAMOUNT (PPG-TF-137)	5.3	6.3	6.7	2.7	6.3	5.5
RHIZING MOON (IS-TF 305 SEL)	5.7	6.7	7.0	3.0	5.0	5.5
SALTILLO (PST-5SALT)	4.0	7.7	6.7	3.3	5.7	5.5
TECHNIQUE (RZ2)	5.3	6.0	7.0	3.0	6.0	5.5
THUNDERSTRUCK (TD1)	5.0	7.7	7.0	3.0	4.7	5.5
TRINITY (BIZEM)	5.3	6.0	7.0	3.3	5.7	5.5
ANNIHILATOR	5.3	8.0	6.0	2.7	5.0	5.4
ATF 1754	4.7	7.3	6.3	2.7	6.0	5.4
BULLSEYE	5.7	6.3	6.7	3.0	5.3	5.4
HEMI	4.7	7.3	6.7	3.0	5.3	5.4
JS 819	4.3	7.7	6.7	3.3	5.0	5.4
LEONARDO (LTP-FSD)	4.3	6.7	7.0	3.0	6.0	5.4
MERIDIAN (PST-5GRB)	5.0	6.7	6.7	2.7	6.0	5.4
PPG-TF-115	5.0	6.7	6.7	3.0	5.7	5.4
RAIN DANCE (PST-5SDT)	5.3	6.7	6.0	3.0	6.0	5.4
IS-TF 276 M2	4.7	7.3	6.7	3.0	5.0	5.3
RHAMBLER 2 SRP (LSD)	4.0	7.3	6.7	3.0	5.7	5.3
TEMPTATION (OR-21)	4.7	7.3	7.0	3.0	4.7	5.3
XTENDER (PPG-TF-139)	4.3	6.7	7.0	3.0	5.7	5.3
MARAUDER	4.3	7.0	7.0	2.3	5.7	5.3
UNITUS (IS-TF 289)	4.3	8.0	7.0	3.0	4.0	5.3
HOUND0G8 (IS-TF 307 SEL)	5.0	6.7	6.7	3.0	4.7	5.2
AQUADUCT	3.7	7.7	6.3	3.0	5.3	5.2

TABLE 18. SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/						
NAME	CT1	IL1	MS1	NE1	NJ1	MEAN
JS 818	3.7	8.0	6.7	3.0	4.7	5.2
KINGDOM (DB1)	4.0	7.7	7.0	3.0	4.3	5.2
RAD-TF-92	3.7	7.0	6.7	3.0	5.7	5.2
TERRANO	4.3	7.3	6.7	3.0	4.7	5.2
DIABLO (IS-TF 330)	4.3	7.3	6.7	2.7	4.7	5.1
K12-05	5.3	6.3	6.3	3.0	4.7	5.1
MEMPHIS (GO-DFR)	4.3	6.7	7.0	3.0	4.7	5.1
PSG-8BP2	4.3	6.3	6.3	3.0	5.7	5.1
RAD-TF-89	3.7	6.7	6.7	3.0	5.7	5.1
SWAGGER (PST-5R05)	4.7	6.0	6.7	3.0	5.3	5.1
BAR FA 121091	4.7	6.3	6.7	3.0	4.7	5.1
JS 809	4.0	7.0	6.7	3.0	4.7	5.1
PST-5DZP	4.3	6.7	6.7	3.0	4.7	5.1
COMP. RES. SST	5.0	6.3	6.3	2.7	5.0	5.1
NIGHTCRAWLER (IS-TF 285)	4.3	7.0	6.0	3.0	5.0	5.1
OLYMPUS (RAD-TF-88)	3.0	6.7	6.7	3.0	5.7	5.0
IS-TF 272	3.7	7.3	6.3	3.0	4.3	4.9
ARES (PPG-TF-142)	4.3	7.3	6.7	3.0	3.0	4.9
DYNAMITE LS (PPG-TF-145)	3.7	7.0	7.0	3.0	3.7	4.9
WARHAWK	3.7	7.7	6.7	2.7	3.3	4.8
BAR FA 121095	3.3	6.0	6.3	3.0	5.0	4.7
K12-13	4.0	6.3	6.3	3.0	4.0	4.7
JS 825	3.3	7.0	6.7	3.0	3.0	4.6
LSD VALUE	1.5	1.3	0.7	0.6	1.1	0.5
C.V. (%)	18.1	11.7	6.1	11.4	12.1	12.2

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 19. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	CT1	IL1	IN1	MS1	NC1	NE1	NJ2	MEAN
AVENGER II (PPG-TF-156)	6.3	7.0	4.7	7.0	6.0	8.0	5.7	9.0	6.7
OLYMPUS (RAD-TF-88)	6.0	7.7	4.3	6.7	6.7	8.0	5.7	8.7	6.7
REGENERATE	6.7	7.0	5.3	6.7	6.0	8.0	5.7	8.0	6.7
204 RES. BLK4	6.7	7.3	5.0	6.7	6.7	7.7	5.7	7.7	6.7
K12-05	6.0	7.3	4.7	7.0	6.0	7.7	5.7	8.7	6.6
REFLECTION (U45)	6.0	6.3	4.7	7.3	6.0	8.0	5.3	9.0	6.6
THOR (PPG-TF-157)	6.0	6.3	5.0	7.0	6.0	8.0	5.3	9.0	6.6
4TH MILLENNIUM SRP (U43)	6.0	7.0	5.0	6.7	6.3	8.0	5.3	8.0	6.5
HOVER (BURL TF-69)	5.7	6.3	4.3	7.7	6.0	7.7	5.7	9.0	6.5
XTENDER (PPG-TF-139)	6.0	6.0	4.0	7.3	6.3	8.0	5.7	9.0	6.5
COMP. RES. SST	6.7	6.7	4.7	6.7	6.7	7.7	5.0	8.0	6.5
TITANIUM 2LS (PPG-TF-152)	6.0	6.7	4.3	7.0	6.0	8.0	5.0	9.0	6.5
FOXHOUND (IS-TF 284 M2)	5.3	5.7	5.0	6.3	7.0	8.0	5.7	9.0	6.5
MERIDIAN (PST-5GRB)	5.3	7.0	4.3	7.7	6.0	8.0	5.7	8.0	6.5
RAD-TF-89	6.0	6.3	4.3	6.3	6.3	8.0	6.0	8.7	6.5
AMITY (CCR2)	6.0	6.7	4.7	6.7	6.0	8.0	5.3	8.0	6.4
FIRECRACKER SLS (PPG-TF-105)	5.7	6.0	4.7	6.7	6.0	8.0	5.3	9.0	6.4
RHIZING MOON (IS-TF 305 SEL)	6.0	7.0	4.0	6.7	6.0	8.0	5.7	8.0	6.4
FIREWALL (PSG-WE1)	6.0	6.0	4.7	6.3	6.0	8.0	5.7	8.7	6.4
IS-TF 272	5.7	6.3	4.7	7.0	6.3	8.0	5.7	7.7	6.4
RAPTOR III (ZW 44)	6.0	6.3	5.0	7.3	6.0	8.0	5.7	7.0	6.4
ROCKWELL (LTP-TWUU)	5.3	6.7	4.3	7.0	6.0	8.0	6.0	8.0	6.4
SCREAMER LS (PPG-TF-148)	6.3	6.0	4.3	7.0	6.0	8.0	5.7	8.0	6.4
TRINITY (BIZEM)	5.7	6.7	4.7	7.3	6.0	8.0	5.0	8.0	6.4
TECHNIQUE (RZ2)	6.0	6.7	4.7	7.0	6.0	8.0	5.7	7.0	6.4
VERT (ATF 1612)	5.7	6.3	3.7	7.0	6.0	8.0	5.3	9.0	6.4
DYNAMITE LS (PPG-TF-145)	5.7	5.3	4.3	7.0	6.0	8.0	5.7	9.0	6.4
TURFWAY (IS-TF 282 M2)	5.3	6.7	4.3	7.0	7.0	8.0	5.7	7.0	6.4
F711	6.0	6.0	4.7	6.7	6.0	8.0	5.3	8.0	6.3
FAYETTE (IS-TF 291)	6.0	6.7	4.0	7.0	6.3	7.3	5.3	8.0	6.3
HEMI	5.7	6.3	4.7	7.0	6.0	7.3	5.3	8.3	6.3
IS-TF 311	6.3	5.7	4.7	7.0	6.0	8.0	5.0	8.0	6.3
K12-13	6.3	6.3	4.3	6.7	6.7	8.0	5.3	7.0	6.3
MET-3	6.0	6.3	4.7	6.7	6.0	7.7	5.0	8.3	6.3
PARAMOUNT (PPG-TF-137)	6.0	6.0	4.0	6.7	6.0	8.0	5.0	9.0	6.3
PSG-P01	6.0	6.7	4.3	6.7	6.0	8.0	5.3	7.7	6.3
W41	6.0	6.3	4.7	7.0	5.7	8.0	5.0	8.0	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	6.7	4.0	6.7	6.0	8.0	5.7	8.0	6.3
DIABLO (IS-TF 330)	5.7	6.7	4.7	6.3	6.0	8.0	5.0	8.3	6.3
GTO (BURL TF-2)	6.0	6.3	4.3	6.7	6.0	8.0	5.3	8.0	6.3
MARAUDER	5.7	6.3	4.7	7.0	6.0	7.3	5.7	8.0	6.3
FIREBIRD 2	5.7	5.3	5.0	7.3	6.3	8.0	5.7	7.0	6.3
PPG-TF-135	6.0	7.3	3.7	6.3	6.0	8.0	5.0	8.0	6.3
TEMPLE (DZ1)	6.3	6.0	4.3	6.7	6.0	8.0	5.0	8.0	6.3
THUNDERSTRUCK (TD1)	6.0	6.7	4.3	7.3	6.0	8.0	5.0	7.0	6.3
REBOUNDER (PICK-W43)	5.7	6.0	5.0	6.0	6.0	8.0	5.3	8.0	6.3

TABLE 19. (CONT'D) LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	CT1	IL1	IN1	MS1	NC1	NE1	NJ2	MEAN
ROWDY (SRX-TPC)	6.0	6.0	5.0	6.7	6.0	8.0	5.0	7.3	6.3
B23	6.0	5.7	3.7	7.0	6.0	8.0	5.0	8.7	6.3
KINGDOM (DB1)	5.3	6.3	4.7	7.0	6.0	8.0	5.3	7.3	6.3
MAESTRO (T31)	6.3	6.0	4.3	7.0	6.0	8.0	5.0	7.3	6.3
MET 1	6.0	7.0	4.3	6.7	6.0	8.0	5.0	7.0	6.3
VALKYRIE LS (PPG-TF-172)	6.0	5.7	4.0	7.3	6.0	7.7	5.3	8.0	6.3
HOT ROD (BURL TF-136)	5.3	6.0	4.7	6.7	6.0	8.0	5.3	7.7	6.2
JS 809	5.7	5.3	4.7	6.7	6.0	8.0	5.3	8.0	6.2
BLACK TAIL (PPG-TF-150)	6.3	6.0	5.0	6.0	6.0	7.7	5.0	7.7	6.2
STANDOUT (IS-TF 308 SEL)	5.3	6.0	4.3	7.0	6.0	8.0	5.7	7.3	6.2
TRAVERSE 2 SRP (W45)	5.7	6.3	4.7	6.3	6.0	8.0	5.7	7.0	6.2
TRENDING (IS-TF 269 SEL)	5.7	5.7	4.7	7.3	6.0	7.7	5.7	7.0	6.2
UNITUS (IS-TF 289)	4.3	5.7	5.0	7.0	6.0	7.7	5.0	9.0	6.2
HOUNDOG8 (IS-TF 307 SEL)	6.0	5.3	3.7	7.0	6.0	8.0	5.3	8.0	6.2
MICHELANGELO (LTP-F5DPDR)	5.3	5.7	4.7	6.7	6.0	8.0	5.3	7.7	6.2
SUPERSONIC (PPG-TF-170)	6.0	6.0	4.3	6.7	6.0	8.0	5.3	7.0	6.2
BLOODHOUND (MET 6 SEL)	5.7	6.0	5.0	6.3	6.0	7.7	5.7	7.0	6.2
JS 916	5.0	5.7	4.7	6.7	6.0	8.0	5.7	7.7	6.2
CAESAR (TY 10)	5.3	5.3	5.0	6.0	6.0	8.0	5.3	8.0	6.1
FALCON V	5.7	6.0	5.0	6.7	5.3	7.7	5.0	7.7	6.1
IS-TF 276 M2	5.7	5.7	5.0	6.7	6.0	7.3	5.0	7.7	6.1
WICHITA (PPG-TF-151)	6.0	6.3	4.3	6.3	6.0	7.7	5.3	7.0	6.1
FESNOVA	6.0	5.7	5.3	6.7	6.0	7.7	5.0	6.3	6.1
JS 819	5.7	5.7	4.0	6.3	5.7	8.0	5.3	8.0	6.1
MEMPHIS (GO-DFR)	6.0	5.7	4.7	7.3	6.0	8.0	5.0	6.0	6.1
BULLSEYE	5.7	5.3	4.3	7.0	6.0	8.0	5.3	7.0	6.1
FAITH	6.0	5.3	4.3	6.0	5.7	8.0	5.3	8.0	6.1
LEONARDO (LTP-FSD)	5.0	5.7	4.7	6.7	6.0	8.0	5.0	7.7	6.1
PPG-TF-115	5.3	6.0	4.3	6.7	6.0	7.7	5.0	7.7	6.1
PST-5DZP	5.7	5.0	4.3	7.0	6.0	7.7	5.0	8.0	6.1
ATF 1704	5.7	5.7	4.3	7.0	6.0	7.7	5.0	7.0	6.0
ATF 1754	5.7	5.3	4.0	5.7	6.0	8.0	5.7	8.0	6.0
GRANDE 3	5.7	4.7	4.3	6.7	6.0	7.3	5.7	8.0	6.0
NIGHTCRAWLER (IS-TF 285)	4.7	6.0	4.7	7.3	5.0	7.7	5.0	8.0	6.0
PSG-TT4	5.0	5.3	4.7	6.7	6.0	8.0	5.0	7.7	6.0
TEMPTATION (OR-21)	5.0	6.0	4.7	6.3	6.0	7.7	5.3	7.3	6.0
IS-TF-287	5.3	6.0	4.3	5.3	6.0	7.7	5.0	8.7	6.0
K12-MCD	5.3	6.3	4.0	7.7	6.0	8.0	5.0	6.0	6.0
PPG-TF-138	5.3	5.7	4.3	7.0	5.7	7.7	5.0	7.7	6.0
RAD-TF-92	5.3	6.0	4.3	6.3	6.0	7.7	5.0	7.7	6.0
RHAMBLER 2 SRP (LSD)	6.0	6.3	3.3	7.0	5.7	7.7	5.0	7.0	6.0
CATALYST	5.3	5.7	4.7	7.0	5.7	7.7	5.3	6.3	6.0
ANNIHILATOR	5.3	6.0	3.7	6.3	6.0	7.7	5.3	7.0	5.9
WARHAWK	5.0	5.3	5.0	6.0	6.3	7.3	5.3	7.0	5.9
FRONTLINE (EXP TF-09)	5.7	5.7	4.7	6.3	6.0	7.7	5.0	6.0	5.9
PPG-TF-169	5.3	4.7	4.3	7.0	6.0	7.7	5.0	7.0	5.9
RAD-TF-83	4.7	6.0	4.3	6.0	6.0	7.7	5.0	7.3	5.9

TABLE 19. (CONT'D) LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	CT1	IL1	IN1	MS1	NC1	NE1	NJ2	MEAN
SALTILLO (PST-5SALT)	4.7	5.0	4.7	7.0	6.0	7.7	5.0	7.0	5.9
ARES (PPG-TF-142)	5.0	6.3	3.7	6.3	6.0	8.0	5.0	6.3	5.8
BAR FA 121095	5.3	6.0	4.7	6.0	6.0	7.0	5.3	6.0	5.8
EMBRACE (PST-5EV2)	5.0	5.3	4.7	6.3	5.7	8.0	5.3	6.0	5.8
JS 818	5.0	5.0	4.7	6.0	6.0	7.3	5.0	7.3	5.8
PSG-GSD	5.7	5.0	4.3	6.7	5.7	7.7	5.3	6.0	5.8
PST-5BP0	5.0	5.3	4.3	6.7	6.0	7.3	5.0	6.3	5.8
REBEL V (ATF 1736)	5.0	5.0	5.0	6.3	6.0	7.7	5.0	6.0	5.8
PSG-8BP2	5.0	5.0	4.0	6.7	5.7	7.3	5.0	7.0	5.7
PST-5BRK	5.0	5.3	4.7	6.0	6.0	7.3	5.0	6.3	5.7
PST-5MVD	5.3	4.7	4.7	6.3	5.7	8.0	5.0	6.0	5.7
AQUADUCT	5.7	4.3	4.7	6.0	5.7	8.0	5.0	6.0	5.7
BAR FA 121089	4.7	5.0	5.0	6.0	5.7	7.7	5.3	6.0	5.7
SWAGGER (PST-5R05)	5.0	5.3	4.0	6.3	5.7	7.7	5.0	6.0	5.6
RAIN DANCE (PST-5SDT)	4.7	5.3	4.3	6.3	6.0	7.7	4.7	6.0	5.6
TERRANO	5.7	5.3	4.3	5.7	5.3	7.3	5.0	6.0	5.6
JS 825	4.0	5.3	4.0	6.3	5.7	8.0	5.0	6.0	5.5
BAR FA 121091	5.0	4.7	5.0	5.3	5.7	7.0	5.0	6.0	5.5
FALCON IV	4.7	4.7	4.3	6.3	6.0	7.3	5.0	3.3	5.2
PST-5EX2	4.3	4.0	4.0	5.7	6.0	7.7	5.0	5.0	5.2
INSPIRATION (PST-R5NW)	4.7	4.3	4.3	6.7	5.3	7.7	5.0	3.3	5.2
BAR FA 120878	3.7	3.3	4.7	4.7	5.0	5.0	4.0	2.3	4.1
KY-31	3.7	2.0	4.3	3.0	4.0	5.0	4.0	1.0	3.4
LSD VALUE	0.8	1.4	1.0	0.9	0.5	0.7	0.7	0.6	0.3
C.V. (%)	8.8	14.9	14.1	8.9	5.1	5.3	8.0	4.7	8.8

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

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

TABLE 20.

SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	IN1	NC1	MEAN	NAME	IN1	NC1	MEAN
F711	7.7	6.7	7.2	HOUNDOG8 (IS-TF 307 SEL)	6.7	5.3	6.0
ATF 1754	6.7	6.7	6.7	MAESTRO (T31)	7.0	5.0	6.0
PSG-TT4	7.3	6.0	6.7	MEMPHIS (GO-DFR)	7.0	5.0	6.0
4TH MILLENNIUM SRP (U43)	6.7	6.3	6.5	MICHELANGELO (LTP-F5DPDR)	6.0	6.0	6.0
HOT ROD (BURL TF-136)	7.3	5.7	6.5	NIGHTCRAWLER (IS-TF 285)	7.3	4.7	6.0
KINGDOM (DB1)	7.3	5.7	6.5	REBEL V (ATF 1736)	6.7	5.3	6.0
LEONARDO (LTP-FSD)	6.7	6.3	6.5	REGENERATE	7.3	4.7	6.0
PST-5BRK	7.3	5.7	6.5	RHIZING MOON (IS-TF 305 SEL)	7.0	5.0	6.0
RAIN DANCE (PST-5SDT)	7.0	6.0	6.5	ROCKWELL (LTP-TWUU)	7.0	5.0	6.0
RAPTOR III (ZW 44)	7.0	6.0	6.5	SUPERSONIC (PPG-TF-170)	6.3	5.7	6.0
FIRECRACKER SLS (PPG-TF-105)	7.0	5.7	6.3	THUNDERSTRUCK (TD1)	7.0	5.0	6.0
JS 916	6.7	6.0	6.3	W41	7.0	5.0	6.0
K12-MCD	7.0	5.7	6.3	BLACK TAIL (PPG-TF-150)	7.0	4.7	5.8
MET 1	6.7	6.0	6.3	DIABLO (IS-TF 330)	6.7	5.0	5.8
PARAMOUNT (PPG-TF-137)	6.7	6.0	6.3	GRANDE 3	6.0	5.7	5.8
PPG-TF-135	7.0	5.7	6.3	HEMI	7.7	4.0	5.8
PST-5EX2	6.0	6.7	6.3	HOVER (BURL TF-69)	6.7	5.0	5.8
SCREAMER LS (PPG-TF-148)	7.0	5.7	6.3	JS 819	6.7	5.0	5.8
TITANIUM 2LS (PPG-TF-152)	8.0	4.7	6.3	PST-5DZP	7.7	4.0	5.8
VALKYRIE LS (PPG-TF-172)	6.7	6.0	6.3	TEMPLE (DZ1)	7.0	4.7	5.8
WICHITA (PPG-TF-151)	7.0	5.7	6.3	BAR FA 121089	6.3	5.3	5.8
PSG-8BP2	7.3	5.3	6.3	CROSSFIRE 4 (IS-TF 310 SEL)	7.3	4.3	5.8
TECHNIQUE (RZ2)	7.3	5.3	6.3	MERIDIAN (PST-5GRB)	7.3	4.3	5.8
AMITY (CCR2)	6.7	5.7	6.2	PPG-TF-115	6.3	5.3	5.8
AQUADUCT	6.7	5.7	6.2	PPG-TF-138	6.3	5.3	5.8
AVENGER II (PPG-TF-156)	6.7	5.7	6.2	REFLECTION (U45)	7.3	4.3	5.8
BLOODHOUND (MET 6 SEL)	6.7	5.7	6.2	RHAMBLER 2 SRP (LSD)	6.3	5.3	5.8
INSPIRATION (PST-R5NW)	6.7	5.7	6.2	STANDOUT (IS-TF 308 SEL)	7.3	4.3	5.8
IS-TF 276 M2	6.7	5.7	6.2	TRAVERSE 2 SRP (W45)	6.3	5.3	5.8
ROWDY (SRX-TPC)	6.7	5.7	6.2	204 RES. BLK4	6.7	4.7	5.7
SALTILLO (PST-5SALT)	6.7	5.7	6.2	EMBRACE (PST-5EV2)	6.7	4.7	5.7
ATF 1704	7.0	5.3	6.2	SWAGGER (PST-5R05)	6.7	4.7	5.7
FESNOVA	6.3	6.0	6.2	TURFWAY (IS-TF 282 M2)	6.7	4.7	5.7
FIREBIRD 2	7.3	5.0	6.2	VERT (ATF 1612)	6.7	4.7	5.7
FIREWALL (PSG-WE1)	6.3	6.0	6.2	BAR FA 121091	6.0	5.3	5.7
GTO (BURL TF-2)	7.0	5.3	6.2	DYNAMITE LS (PPG-TF-145)	7.0	4.3	5.7
IS-TF 311	7.0	5.3	6.2	IS-TF-287	6.3	5.0	5.7
MET-3	7.3	5.0	6.2	JS 825	6.3	5.0	5.7
PSG-GSD	7.0	5.3	6.2	PST-5MVD	6.3	5.0	5.7
PST-5BP0	7.0	5.3	6.2	RAD-TF-89	6.3	5.0	5.7
THOR (PPG-TF-157)	7.0	5.3	6.2	TRENDING (IS-TF 269 SEL)	7.0	4.3	5.7
TRINITY (BIZEM)	6.3	6.0	6.2	ARES (PPG-TF-142)	6.3	4.7	5.5
B23	7.0	5.0	6.0	BULLSEYE	6.3	4.7	5.5
BAR FA 120878	6.0	6.0	6.0	FAITH	6.0	5.0	5.5
CAESAR (TY 10)	6.7	5.3	6.0	FALCON IV	6.7	4.3	5.5
FAYETTE (IS-TF 291)	7.0	5.0	6.0	JS 809	6.0	5.0	5.5
				JS 818	6.7	4.3	5.5

TABLE 20. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

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

NAME	IN1	NC1	MEAN
TEMPTATION (OR-21)	6.7	4.3	5.5
TERRANO	5.7	5.3	5.5
UNITUS (IS-TF 289)	6.7	4.3	5.5
XTENDER (PPG-TF-139)	6.3	4.7	5.5
FRONTLINE (EXP TF-09)	6.0	4.7	5.3
K12-05	6.7	4.0	5.3
OLYMPUS (RAD-TF-88)	6.0	4.7	5.3
PPG-TF-169	6.7	4.0	5.3
K12-13	6.3	4.3	5.3
PSG-P01	6.3	4.3	5.3
REBOUNDER (PICK-W43)	6.3	4.3	5.3
ANNIHILATOR	5.7	4.7	5.2
FOXHOUND (IS-TF 284 M2)	5.7	4.7	5.2
IS-TF 272	7.0	3.3	5.2
MARAUDER	6.7	3.7	5.2
RAD-TF-83	6.7	3.7	5.2
RAD-TF-92	5.7	4.7	5.2
KY-31	4.0	6.3	5.2
BAR FA 121095	6.5	3.7	5.1
CATALYST	6.3	3.7	5.0
COMP. RES. SST	6.3	3.7	5.0
WARHAWK	5.7	4.0	4.8
FALCON V	6.0	3.7	4.8
LSD VALUE	1.1	1.5	0.9
C.V. (%)	10.1	18.1	13.7

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

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

TABLE 21. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	NAME	CA3
4TH MILLENNIUM SRP (U43)	7.7	RAD-TF-89	6.7
FIREWALL (PSG-WE1)	7.7	TERRANO	6.7
REFLECTION (U45)	7.7	THUNDERSTRUCK (TD1)	6.7
HOT ROD (BURL TF-136)	7.3	VALKYRIE LS (PPG-TF-172)	6.7
IS-TF 311	7.3	ANNIHILATOR	6.3
204 RES. BLK4	7.0	ATF 1754	6.3
AMITY (CCR2)	7.0	BLOODHOUND (MET 6 SEL)	6.3
BAR FA 121095	7.0	BULLSEYE	6.3
BLACK TAIL (PPG-TF-150)	7.0	CROSSFIRE 4 (IS-TF 310 SEL)	6.3
DIABLO (IS-TF 330)	7.0	DYNAMITE LS (PPG-TF-145)	6.3
F711	7.0	FAITH	6.3
FIRECRACKER SLS (PPG-TF-105)	7.0	FALCON IV	6.3
K12-MCD	7.0	HOVER (BURL TF-69)	6.3
MET-3	7.0	INSPIRATION (PST-R5NW)	6.3
OLYMPUS (RAD-TF-88)	7.0	IS-TF 272	6.3
PPG-TF-115	7.0	IS-TF 276 M2	6.3
PPG-TF-135	7.0	JS 809	6.3
REGENERATE	7.0	JS 818	6.3
ROCKWELL (LTP-TWUU)	7.0	JS 916	6.3
ROWDY (SRX-TPC)	7.0	K12-13	6.3
SCREAMER LS (PPG-TF-148)	7.0	MICHELANGELO (LTP-F5DPDR)	6.3
STANDOUT (IS-TF 308 SEL)	7.0	NIGHTCRAWLER (IS-TF 285)	6.3
TECHNIQUE (RZ2)	7.0	PPG-TF-138	6.3
TEMPLE (DZ1)	7.0	PPG-TF-169	6.3
TRINITY (BIZEM)	7.0	PSG-8BP2	6.3
ATF 1704	6.7	PSG-GSD	6.3
CATALYST	6.7	RAD-TF-92	6.3
COMP. RES. SST	6.7	REBEL V (ATF 1736)	6.3
EMBRACE (PST-5EV2)	6.7	REBOUNDER (PICK-W43)	6.3
FALCON V	6.7	RHAMBLER 2 SRP (LSD)	6.3
FESNOVA	6.7	SALTILLO (PST-5SALT)	6.3
FIREBIRD 2	6.7	THOR (PPG-TF-157)	6.3
FOXHOUND (IS-TF 284 M2)	6.7	TITANIUM 2LS (PPG-TF-152)	6.3
GRANDE 3	6.7	TRAVERSE 2 SRP (W45)	6.3
GTO (BURL TF-2)	6.7	TRENDING (IS-TF 269 SEL)	6.3
HEMI	6.7	W41	6.3
HOUNDOG8 (IS-TF 307 SEL)	6.7	WICHITA (PPG-TF-151)	6.3
K12-05	6.7	XTENDER (PPG-TF-139)	6.3
KINGDOM (DB1)	6.7	ARES (PPG-TF-142)	6.0
LEONARDO (LTP-FSD)	6.7	AVENGER II (PPG-TF-156)	6.0
MAESTRO (T31)	6.7	BAR FA 120878	6.0
MERIDIAN (PST-5GRB)	6.7	BAR FA 121091	6.0
MET 1	6.7	CAESAR (TY 10)	6.0
PARAMOUNT (PPG-TF-137)	6.7	FAYETTE (IS-TF 291)	6.0
PSG-P01	6.7	IS-TF-287	6.0
PST-5DZP	6.7	MARAUDER	6.0
		MEMPHIS (GO-DFR)	6.0

TABLE 21. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

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

NAME	CA3
PST-5BP0	6.0
PST-5EX2	6.0
RAD-TF-83	6.0
RAIN DANCE (PST-5SDT)	6.0
RAPTOR III (ZW 44)	6.0
RHIZING MOON (IS-TF 305 SEL)	6.0
SUPERSONIC (PPG-TF-170)	6.0
TEMPTATION (OR-21)	6.0
TURFWAY (IS-TF 282 M2)	6.0
UNITUS (IS-TF 289)	6.0
VERT (ATF 1612)	6.0
AQUADUCT	5.7
B23	5.7
BAR FA 121089	5.7
FRONTLINE (EXP TF-09)	5.7
JS 819	5.7
PST-5MVD	5.7
SWAGGER (PST-5R05)	5.7
PST-5BRK	5.3
WARHAWK	5.3
JS 825	5.0
PSG-TT4	5.0
KY-31	4.7
LSD VALUE	1.0
C.V. (%)	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. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/							
NAME	NC1	TN1	MEAN	NAME	NC1	TN1	MEAN
AMITY (CCR2)	99.0	99.0	99.0	MET-3	98.3	98.7	98.5
AQUADUCT	99.0	99.0	99.0	TRENDING (IS-TF 269 SEL)	98.3	98.7	98.5
ATF 1754	99.0	99.0	99.0	CAESAR (TY 10)	97.7	99.0	98.3
BAR FA 120878	99.0	99.0	99.0	FAITH	97.7	99.0	98.3
F711	99.0	99.0	99.0	FIRECRACKER SLS (PPG-TF-105)	97.7	99.0	98.3
FESNOVA	99.0	99.0	99.0	HOUNDOG8 (IS-TF 307 SEL)	97.7	99.0	98.3
IS-TF 311	99.0	99.0	99.0	SUPERSONIC (PPG-TF-170)	97.7	99.0	98.3
IS-TF-287	99.0	99.0	99.0	UNITUS (IS-TF 289)	97.7	99.0	98.3
MET 1	99.0	99.0	99.0	W41	97.7	99.0	98.3
MICHELANGELO (LTP-F5DPDR)	99.0	99.0	99.0	BAR FA 121089	98.3	98.3	98.3
PST-5BP0	99.0	99.0	99.0	JS 809	98.3	98.3	98.3
PST-5EX2	99.0	99.0	99.0	BLACK TAIL (PPG-TF-150)	97.7	98.7	98.2
RAPTOR III (ZW 44)	99.0	99.0	99.0	BLOODHOUND (MET 6 SEL)	97.7	98.7	98.2
TECHNIQUE (RZ2)	99.0	99.0	99.0	DIABLO (IS-TF 330)	97.7	98.7	98.2
THOR (PPG-TF-157)	99.0	99.0	99.0	K12-13	97.7	98.7	98.2
4TH MILLENNIUM SRP (U43)	99.0	98.7	98.8	KY-31	97.7	98.7	98.2
GTO (BURL TF-2)	99.0	98.7	98.8	PSG-TT4	97.7	98.7	98.2
JS 916	99.0	98.7	98.8	PST-5MVD	97.7	98.7	98.2
K12-MCD	99.0	98.7	98.8	TRINITY (BIZEM)	97.7	98.7	98.2
PPG-TF-135	99.0	98.7	98.8	OLYMPUS (RAD-TF-88)	98.3	98.0	98.2
RAIN DANCE (PST-5SDT)	99.0	98.7	98.8	204 RES. BLK4	97.0	99.0	98.0
SCREAMER LS (PPG-TF-148)	99.0	98.7	98.8	CROSSFIRE 4 (IS-TF 310 SEL)	97.0	99.0	98.0
TERRANO	99.0	98.7	98.8	INSPIRATION (PST-R5NW)	98.3	97.7	98.0
VALKYRIE LS (PPG-TF-172)	99.0	98.7	98.8	KINGDOM (DB1)	97.7	98.3	98.0
ATF 1704	98.3	99.0	98.7	PARAMOUNT (PPG-TF-137)	97.7	98.3	98.0
AVENGER II (PPG-TF-156)	98.3	99.0	98.7	REFLECTION (U45)	97.0	99.0	98.0
FIREBIRD 2	98.3	99.0	98.7	RHAMBLER 2 SRP (LSD)	97.0	99.0	98.0
LEONARDO (LTP-FSD)	98.3	99.0	98.7	ROCKWELL (LTP-TWUU)	97.0	99.0	98.0
MAESTRO (T31)	98.3	99.0	98.7	SWAGGER (PST-5R05)	97.0	99.0	98.0
NIGHTCRAWLER (IS-TF 285)	98.3	99.0	98.7	TURFWAY (IS-TF 282 M2)	97.0	99.0	98.0
PPG-TF-115	98.3	99.0	98.7	VERT (ATF 1612)	97.0	99.0	98.0
PPG-TF-138	98.3	99.0	98.7	B23	97.0	98.7	97.8
PSG-8BP2	99.0	98.3	98.7	BAR FA 121091	97.7	98.0	97.8
PSG-GSD	98.3	99.0	98.7	FAYETTE (IS-TF 291)	97.0	98.7	97.8
PST-5BRK	98.3	99.0	98.7	IS-TF 276 M2	97.0	98.7	97.8
REGENERATE	98.3	99.0	98.7	RHIZING MOON (IS-TF 305 SEL)	97.0	98.7	97.8
ROWDY (SRX-TPC)	99.0	98.3	98.7	TITANIUM 2LS (PPG-TF-152)	97.0	98.7	97.8
SALTILLO (PST-5SALT)	98.3	99.0	98.7	ARES (PPG-TF-142)	97.0	98.3	97.7
STANDOUT (IS-TF 308 SEL)	98.3	99.0	98.7	HOT ROD (BURL TF-136)	96.3	99.0	97.7
TEMPTATION (OR-21)	98.3	99.0	98.7	JS 825	97.0	98.3	97.7
THUNDERSTRUCK (TD1)	98.3	99.0	98.7	K12-05	96.3	99.0	97.7
TRAVERSE 2 SRP (W45)	98.3	99.0	98.7	RAD-TF-89	97.0	98.3	97.7
WICHITA (PPG-TF-151)	98.3	99.0	98.7	REBEL V (ATF 1736)	96.3	99.0	97.7
EMBRACE (PST-5EV2)	98.3	98.7	98.5	REBOUNDER (PICK-W43)	96.3	99.0	97.7
FIREWALL (PSG-WE1)	98.3	98.7	98.5	RAD-TF-83	96.3	98.7	97.5
GRANDE 3	98.3	98.7	98.5	XTENDER (PPG-TF-139)	97.0	98.0	97.5
JS 819	99.0	98.0	98.5	JS 818	97.0	97.7	97.3

TABLE 22. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	NC1	TN1	MEAN
PST-5DZP	95.7	99.0	97.3
HOVER (BURL TF-69)	97.0	97.3	97.2
RAD-TF-92	96.3	98.0	97.2
FOXHOUND (IS-TF 284 M2)	95.0	99.0	97.0
IS-TF 272	95.7	98.3	97.0
PSG-P01	95.0	99.0	97.0
BAR FA 121095	95.7	98.0	96.8
TEMPLE (DZ1)	95.7	98.0	96.8
FALCON V	95.7	97.7	96.7
PPG-TF-169	94.3	99.0	96.7
BULLSEYE	94.3	98.7	96.5
MERIDIAN (PST-5GRB)	94.3	98.7	96.5
ANNIHILATOR	93.7	98.7	96.2
FRONTLINE (EXP TF-09)	93.7	98.7	96.2
FALCON IV	93.7	98.3	96.0
MARAUDER	93.0	99.0	96.0
MEMPHIS (GO-DFR)	92.7	99.0	95.8
WARHAWK	92.3	98.7	95.5
COMP. RES. SST	92.3	96.3	94.3
DYNAMITE LS (PPG-TF-145)	89.7	98.0	93.8
CATALYST	89.0	98.0	93.5
HEMI	86.7	98.7	92.7
LSD VALUE	4.8	1.0	2.5
C.V. (%)	3.1	0.6	2.2

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 23. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	TN1	NAME	TN1
AMITY (CCR2)	97.0	FIRECRACKER SLS (PPG-TF-105)	96.0
ATF 1704	97.0	FOXHOUND (IS-TF 284 M2)	96.0
FESNOVA	97.0	GTO (BURL TF-2)	96.0
PPG-TF-115	97.0	INSPIRATION (PST-R5NW)	96.0
SALTILLO (PST-5SALT)	97.0	JS 819	96.0
TECHNIQUE (RZ2)	97.0	K12-MCD	96.0
DIABLO (IS-TF 330)	96.7	KY-31	96.0
MEMPHIS (GO-DFR)	96.7	LEONARDO (LTP-FSD)	96.0
PPG-TF-138	96.7	MET-3	96.0
PST-5EX2	96.7	OLYMPUS (RAD-TF-88)	96.0
RAPTOR III (ZW 44)	96.7	PARAMOUNT (PPG-TF-137)	96.0
REGENERATE	96.7	PPG-TF-135	96.0
TEMPLE (DZ1)	96.7	PSG-TT4	96.0
TERRANO	96.7	PST-5BRK	96.0
TRAVERSE 2 SRP (W45)	96.7	PST-5MVD	96.0
TRENDING (IS-TF 269 SEL)	96.7	RHIZING MOON (IS-TF 305 SEL)	96.0
W41	96.7	SCREAMER LS (PPG-TF-148)	96.0
4TH MILLENNIUM SRP (U43)	96.3	STANDOUT (IS-TF 308 SEL)	96.0
BAR FA 120878	96.3	SUPERSONIC (PPG-TF-170)	96.0
BULLSEYE	96.3	204 RES. BLK4	95.7
DYNAMITE LS (PPG-TF-145)	96.3	BAR FA 121089	95.7
HOUNDOG8 (IS-TF 307 SEL)	96.3	BAR FA 121091	95.7
HOVER (BURL TF-69)	96.3	CAESAR (TY 10)	95.7
IS-TF 311	96.3	CROSSFIRE 4 (IS-TF 310 SEL)	95.7
IS-TF-287	96.3	FAITH	95.7
K12-05	96.3	FAYETTE (IS-TF 291)	95.7
MERIDIAN (PST-5GRB)	96.3	FRONTLINE (EXP TF-09)	95.7
PST-5BPO	96.3	HOT ROD (BURL TF-136)	95.7
RAIN DANCE (PST-5SDT)	96.3	JS 809	95.7
REBOUNDER (PICK-W43)	96.3	JS 818	95.7
THOR (PPG-TF-157)	96.3	JS 916	95.7
THUNDERSTRUCK (TD1)	96.3	KINGDOM (DB1)	95.7
TITANIUM 2LS (PPG-TF-152)	96.3	NIGHTCRAWLER (IS-TF 285)	95.7
TRINITY (BIZEM)	96.3	PST-5DZP	95.7
WICHITA (PPG-TF-151)	96.3	RAD-TF-89	95.7
ARES (PPG-TF-142)	96.0	REFLECTION (U45)	95.7
ATF 1754	96.0	ROCKWELL (LTP-TWUU)	95.7
AVENGER II (PPG-TF-156)	96.0	SWAGGER (PST-5R05)	95.7
B23	96.0	TURFWAY (IS-TF 282 M2)	95.7
BAR FA 121095	96.0	JS 825	95.3
BLACK TAIL (PPG-TF-150)	96.0	K12-13	95.3
BLOODHOUND (MET 6 SEL)	96.0	MICHELANGELO (LTP-F5DPDR)	95.3
CATALYST	96.0	RAD-TF-92	95.3
EMBRACE (PST-5EV2)	96.0	RHAMBLER 2 SRP (LSD)	95.3
F711	96.0	ROWDY (SRX-TPC)	95.3
FALCON IV	96.0	TEMPTATION (OR-21)	95.3
FIREBIRD 2	96.0	ANNIHILATOR	95.0

TABLE 23. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	TN1
AQUADUCT	95.0
FIREWALL (PSG-WE1)	95.0
IS-TF 272	95.0
IS-TF 276 M2	95.0
MAESTRO (T31)	95.0
PSG-GSD	95.0
REBEL V (ATF 1736)	95.0
XTENDER (PPG-TF-139)	95.0
UNITUS (IS-TF 289)	94.7
WARHAWK	94.7
FALCON V	94.3
RAD-TF-83	94.3
VERT (ATF 1612)	94.3
MET 1	94.0
PSG-8BP2	94.0
PSG-P01	94.0
VALKYRIE LS (PPG-TF-172)	94.0
MARAUDER	93.7
GRANDE 3	93.3
PPG-TF-169	93.3
COMP. RES. SST	93.0
HEMI	92.7
LSD VALUE	2.4
C.V. (%)	1.6

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 24. PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/			
NAME	TN1	NAME	TN1
204 RES. BLK4	97.7	K12-05	96.3
COMP. RES. SST	97.7	KINGDOM (DB1)	96.3
SWAGGER (PST-5R05)	97.7	MAESTRO (T31)	96.3
GTO (BURL TF-2)	97.3	MARAUDER	96.3
LEONARDO (LTP-FSD)	97.3	MEMPHIS (GO-DFR)	96.3
MERIDIAN (PST-5GRB)	97.3	MET-3	96.3
PST-5BRK	97.3	NIGHTCRAWLER (IS-TF 285)	96.3
REFLECTION (U45)	97.3	PARAMOUNT (PPG-TF-137)	96.3
XTENDER (PPG-TF-139)	97.3	PPG-TF-135	96.3
4TH MILLENNIUM SRP (U43)	97.0	PSG-P01	96.3
F711	97.0	PSG-TT4	96.3
FESNOVA	97.0	PST-5BP0	96.3
GRANDE 3	97.0	PST-5DZP	96.3
IS-TF-287	97.0	RAD-TF-89	96.3
PPG-TF-169	97.0	REBOUNDER (PICK-W43)	96.3
PST-5EX2	97.0	RHIZING MOON (IS-TF 305 SEL)	96.3
RAPTOR III (ZW 44)	97.0	ROCKWELL (LTP-TWUU)	96.3
RHAMBLER 2 SRP (LSD)	97.0	ROWDY (SRX-TPC)	96.3
TECHNIQUE (RZ2)	97.0	TERRANO	96.3
VERT (ATF 1612)	97.0	THUNDERSTRUCK (TD1)	96.3
AMITY (CCR2)	96.7	VALKYRIE LS (PPG-TF-172)	96.3
ANNIHILATOR	96.7	WARHAWK	96.3
ATF 1754	96.7	WICHITA (PPG-TF-151)	96.3
AVENGER II (PPG-TF-156)	96.7	AQUADUCT	96.0
B23	96.7	ARES (PPG-TF-142)	96.0
EMBRACE (PST-5EV2)	96.7	BLACK TAIL (PPG-TF-150)	96.0
FIRECRACKER SLS (PPG-TF-105)	96.7	BLOODHOUND (MET 6 SEL)	96.0
FOXHOUND (IS-TF 284 M2)	96.7	HOUNDOG8 (IS-TF 307 SEL)	96.0
HOT ROD (BURL TF-136)	96.7	IS-TF 272	96.0
K12-MCD	96.7	JS 916	96.0
MICHELANGELO (LTP-F5DPDR)	96.7	MET 1	96.0
PSG-GSD	96.7	PPG-TF-138	96.0
RAIN DANCE (PST-5SDT)	96.7	PST-5MVD	96.0
SALTILLO (PST-5SALT)	96.7	STANDOUT (IS-TF 308 SEL)	96.0
SCREAMER LS (PPG-TF-148)	96.7	SUPERSONIC (PPG-TF-170)	96.0
TEMPLE (DZ1)	96.7	THOR (PPG-TF-157)	96.0
TEMPTATION (OR-21)	96.7	TRENDING (IS-TF 269 SEL)	96.0
TITANIUM 2LS (PPG-TF-152)	96.7	BAR FA 120878	95.7
TRINITY (BIZEM)	96.7	BAR FA 121089	95.7
TURFWAY (IS-TF 282 M2)	96.7	BAR FA 121091	95.7
ATF 1704	96.3	BULLSEYE	95.7
DIABLO (IS-TF 330)	96.3	CAESAR (TY 10)	95.7
FAITH	96.3	CROSSFIRE 4 (IS-TF 310 SEL)	95.7
FALCON IV	96.3	DYNAMITE LS (PPG-TF-145)	95.7
HEMI	96.3	FALCON V	95.7
HOVER (BURL TF-69)	96.3	FAYETTE (IS-TF 291)	95.7
INSPIRATION (PST-R5NW)	96.3	JS 818	95.7

TABLE 24. PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	TN1
K12-13	95.7
OLYMPUS (RAD-TF-88)	95.7
PPG-TF-115	95.7
RAD-TF-92	95.7
REBEL V (ATF 1736)	95.7
REGENERATE	95.7
TRAVERSE 2 SRP (W45)	95.7
W41	95.7
FRONTLINE (EXP TF-09)	95.3
PSG-8BP2	95.3
CATALYST	95.0
IS-TF 311	95.0
JS 809	95.0
JS 825	95.0
RAD-TF-83	95.0
JS 819	94.7
UNITUS (IS-TF 289)	94.3
KY-31	93.0
FIREBIRD 2	64.7
FIREWALL (PSG-WE1)	64.3
BAR FA 121095	64.0
IS-TF 276 M2	64.0
LSD VALUE	16.7
C.V. (%)	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 25. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/					
NAME	GA1	MS1	NC1	TN1	MEAN
CAESAR (TY 10)	5.3	6.3	4.3	7.0	5.8
F711	5.5	6.0	4.7	6.7	5.7
PST-5EX2	5.5	6.3	5.0	6.0	5.7
MAESTRO (T31)	6.0	6.0	4.0	6.7	5.7
TECHNIQUE (RZ2)	5.7	6.0	4.7	6.3	5.7
GTO (BURL TF-2)	6.0	6.0	4.3	6.3	5.7
THOR (PPG-TF-157)	5.0	6.0	4.3	7.3	5.7
4TH MILLENNIUM SRP (U43)	5.5	6.0	4.3	6.7	5.6
FAITH	5.5	6.0	4.7	6.3	5.6
FAYETTE (IS-TF 291)	5.5	6.0	4.0	7.0	5.6
HOT ROD (BURL TF-136)	5.7	6.0	4.0	6.7	5.6
ATF 1704	5.0	6.0	5.0	6.3	5.6
HOUNDOG8 (IS-TF 307 SEL)	5.3	6.0	4.3	6.7	5.6
MARAUDER	5.3	6.0	4.3	6.7	5.6
REGENERATE	5.0	6.0	4.3	7.0	5.6
UNITUS (IS-TF 289)	5.5	6.0	4.0	6.7	5.5
B23	5.0	6.0	4.0	7.0	5.5
K12-13	6.0	6.0	3.7	6.3	5.5
LEONARDO (LTP-FSD)	5.0	6.0	4.3	6.7	5.5
MET 1	5.7	6.0	4.3	6.0	5.5
PPG-TF-138	5.0	6.0	4.7	6.3	5.5
RAD-TF-89	5.0	6.0	3.7	7.3	5.5
RAIN DANCE (PST-5SDT)	5.0	6.0	4.7	6.3	5.5
REBOUNDER (PICK-W43)	5.3	6.0	4.0	6.7	5.5
REFLECTION (U45)	5.3	6.3	4.0	6.3	5.5
ROCKWELL (LTP-TWUU)	5.3	6.0	4.0	6.7	5.5
STANDOUT (IS-TF 308 SEL)	4.7	6.0	4.3	7.0	5.5
TEMPLE (DZ1)	5.3	6.0	3.7	7.0	5.5
TERRANO	5.3	6.0	4.0	6.7	5.5
TRAVERSE 2 SRP (W45)	5.7	6.0	3.7	6.7	5.5
VALKYRIE LS (PPG-TF-172)	5.0	6.0	4.7	6.3	5.5
WARHAWK	5.0	6.3	4.0	6.7	5.5
AVENGER II (PPG-TF-156)	5.3	6.0	4.3	6.3	5.5
TRENDING (IS-TF 269 SEL)	5.5	5.7	4.0	6.7	5.5
MICHELANGELO (LTP-F5DPDR)	5.5	6.0	4.0	6.3	5.5
WICHITA (PPG-TF-151)	4.5	6.0	4.3	7.0	5.5
ATF 1754	4.7	6.0	4.7	6.3	5.4
BLOODHOUND (MET 6 SEL)	5.0	6.0	4.7	6.0	5.4
FIRECRACKER SLS (PPG-TF-105)	5.3	5.7	4.0	6.7	5.4
FOXHOUND (IS-TF 284 M2)	4.7	6.0	4.3	6.7	5.4
MEMPHIS (GO-DFR)	5.0	6.0	4.0	6.7	5.4
TEMPTATION (OR-21)	3.7	6.0	4.3	7.7	5.4
AMITY (CCR2)	5.0	6.0	4.3	6.3	5.4
BULLSEYE	5.3	6.0	4.0	6.3	5.4
CROSSFIRE 4 (IS-TF 310 SEL)	5.0	6.0	3.7	7.0	5.4
DIABLO (IS-TF 330)	5.0	6.3	4.0	6.3	5.4

TABLE 25. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/					
NAME	GA1	MS1	NC1	TN1	MEAN
FALCON V	5.3	6.0	4.0	6.3	5.4
GRANDE 3	5.0	6.0	4.3	6.3	5.4
PPG-TF-169	5.3	6.0	4.0	6.3	5.4
THUNDERSTRUCK (TD1)	4.3	5.7	4.3	7.3	5.4
PSG-GSD	5.5	6.0	3.7	6.3	5.4
ARES (PPG-TF-142)	4.7	5.7	4.0	7.0	5.3
PPG-TF-135	4.7	5.7	4.0	7.0	5.3
ROWDY (SRX-TPC)	4.0	6.0	4.7	6.7	5.3
BLACK TAIL (PPG-TF-150)	5.0	6.0	4.0	6.3	5.3
CATALYST	5.0	6.0	4.0	6.3	5.3
HEMI	5.0	6.0	4.0	6.3	5.3
HOVER (BURL TF-69)	5.0	6.0	4.0	6.3	5.3
IS-TF 311	5.0	6.0	4.0	6.3	5.3
K12-05	5.0	6.0	4.0	6.3	5.3
KINGDOM (DB1)	5.0	6.0	4.0	6.3	5.3
OLYMPUS (RAD-TF-88)	5.0	6.0	4.0	6.3	5.3
RAD-TF-92	5.3	6.0	4.0	6.0	5.3
RAPTOR III (ZW 44)	4.3	6.0	4.0	7.0	5.3
SWAGGER (PST-5R05)	5.3	6.0	4.0	6.0	5.3
TRINITY (BIZEM)	5.0	6.0	4.0	6.3	5.3
TURFWAY (IS-TF 282 M2)	4.3	5.7	4.3	7.0	5.3
XTENDER (PPG-TF-139)	5.3	5.7	3.7	6.7	5.3
COMP. RES. SST	5.5	6.0	3.7	6.0	5.3
PARAMOUNT (PPG-TF-137)	4.5	6.3	4.0	6.3	5.3
INSPIRATION (PST-R5NW)	5.0	5.7	4.3	6.0	5.3
IS-TF 272	4.7	6.0	3.7	6.7	5.3
K12-MCD	5.0	6.0	4.0	6.0	5.3
NIGHTCRAWLER (IS-TF 285)	4.7	5.7	4.0	6.7	5.3
PPG-TF-115	5.0	6.0	3.7	6.3	5.3
PSG-P01	5.0	6.0	3.3	6.7	5.3
PST-5MVD	5.0	6.0	4.0	6.0	5.3
RAD-TF-83	6.0	5.0	3.7	6.3	5.3
RHAMBLER 2 SRP (LSD)	4.7	5.7	4.0	6.7	5.3
SCREAMER LS (PPG-TF-148)	5.0	6.0	4.0	6.0	5.3
IS-TF-287	4.3	6.0	4.3	6.3	5.3
W41	4.3	6.0	4.3	6.3	5.3
RHIZING MOON (IS-TF 305 SEL)	4.5	6.0	3.7	6.7	5.2
EMBRACE (PST-5EV2)	4.7	6.0	4.0	6.0	5.2
FESNOVA	4.7	6.0	4.0	6.0	5.2
JS 916	4.7	6.0	4.0	6.0	5.2
PST-5BRK	4.7	6.0	4.0	6.0	5.2
SUPERSONIC (PPG-TF-170)	5.0	6.0	3.3	6.3	5.2
SALTILLO (PST-5SALT)	4.3	6.0	4.0	6.3	5.2
TITANIUM 2LS (PPG-TF-152)	4.0	6.0	4.3	6.3	5.2
MET-3	4.5	6.0	4.0	6.0	5.1
FALCON IV	4.7	5.7	4.0	6.0	5.1
IS-TF 276 M2	5.0	5.7	4.0	5.7	5.1

TABLE 25. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/					
NAME	GA1	MS1	NC1	TN1	MEAN
MERIDIAN (PST-5GRB)	4.7	6.0	4.0	5.7	5.1
PST-5BP0	4.7	6.0	4.0	5.7	5.1
VERT (ATF 1612)	4.7	6.0	3.7	6.0	5.1
DYNAMITE LS (PPG-TF-145)	4.3	6.0	3.7	6.3	5.1
FRONTLINE (EXP TF-09)	4.0	6.0	4.0	6.3	5.1
JS 809	5.0	5.3	4.0	6.0	5.1
JS 825	5.0	5.3	3.7	6.3	5.1
204 RES. BLK4	4.3	6.0	3.7	6.0	5.0
ANNIHILATOR	4.0	6.0	3.7	6.3	5.0
FIREWALL (PSG-WE1)	4.3	6.0	4.0	5.7	5.0
JS 819	5.0	5.7	4.0	5.3	5.0
PSG-TT4	4.7	6.0	4.0	5.3	5.0
REBEL V (ATF 1736)	4.0	6.0	3.7	6.3	5.0
FIREBIRD 2	4.5	6.0	4.0	5.3	5.0
AQUADUCT	4.0	6.0	4.0	5.7	4.9
PST-5DZP	4.7	5.7	3.7	5.7	4.9
BAR FA 121089	4.0	5.7	3.7	6.0	4.8
JS 818	4.0	5.7	4.0	5.7	4.8
BAR FA 121095	5.3	5.3	3.7	5.0	4.8
BAR FA 121091	4.5	5.3	3.3	6.0	4.8
PSG-8BP2	4.3	5.7	3.0	5.7	4.7
BAR FA 120878	3.5	5.0	3.7	6.0	4.5
KY-31	4.3	4.7	4.0	4.7	4.4
LSD VALUE	1.5	0.5	0.8	1.1	0.5
C.V. (%)	16.6	4.8	12.1	11.2	11.2

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 26. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	NJ2	NAME	NJ2
THOR (PPG-TF-157)	7.7	TURFWAY (IS-TF 282 M2)	5.7
MAESTRO (T31)	7.3	FIREBIRD 2	5.3
SCREAMER LS (PPG-TF-148)	7.3	FIREWALL (PSG-WE1)	5.3
FOXHOUND (IS-TF 284 M2)	7.0	GRANDE 3	5.3
REFLECTION (U45)	7.0	INSPIRATION (PST-R5NW)	5.3
RHAMBLER 2 SRP (LSD)	7.0	IS-TF 311	5.3
TRINITY (BIZEM)	7.0	PST-5BRK	5.3
AMITY (CCR2)	6.7	RAPTOR III (ZW 44)	5.3
EMBRACE (PST-5EV2)	6.7	TERRANO	5.3
FALCON V	6.7	B23	5.0
FAYETTE (IS-TF 291)	6.7	BAR FA 121089	5.0
GTO (BURL TF-2)	6.7	BLACK TAIL (PPG-TF-150)	5.0
HEMI	6.7	BULLSEYE	5.0
LEONARDO (LTP-FSD)	6.7	FAITH	5.0
MET 1	6.7	IS-TF-287	5.0
PARAMOUNT (PPG-TF-137)	6.7	PSG-8BP2	5.0
PPG-TF-115	6.7	PSG-P01	5.0
ROWDY (SRX-TPC)	6.7	PSG-TT4	5.0
STANDOUT (IS-TF 308 SEL)	6.7	PST-5EX2	5.0
SUPERSONIC (PPG-TF-170)	6.7	PST-5MVD	5.0
VALKYRIE LS (PPG-TF-172)	6.7	AQUADUCT	4.7
ATF 1704	6.3	IS-TF 276 M2	4.7
AVENGER II (PPG-TF-156)	6.3	PSG-GSD	4.7
FESNOVA	6.3	PST-5BP0	4.7
FIRECRACKER SLS (PPG-TF-105)	6.3	PST-5DZP	4.7
MICHELANGELO (LTP-F5DPDR)	6.3	REBOUNDER (PICK-W43)	4.7
WICHITA (PPG-TF-151)	6.3	TECHNIQUE (RZ2)	4.7
4TH MILLENNIUM SRP (U43)	6.0	TRENDING (IS-TF 269 SEL)	4.7
ARES (PPG-TF-142)	6.0	XTENDER (PPG-TF-139)	4.7
BLOODHOUND (MET 6 SEL)	6.0	ATF 1754	4.3
CATALYST	6.0	CAESAR (TY 10)	4.3
F711	6.0	KINGDOM (DB1)	4.3
HOT ROD (BURL TF-136)	6.0	PPG-TF-169	4.3
HOUNDOG8 (IS-TF 307 SEL)	6.0	ROCKWELL (LTP-TWUU)	4.3
MET-3	6.0	SALTILLO (PST-5SALT)	4.3
NIGHTCRAWLER (IS-TF 285)	6.0	TEMPTATION (OR-21)	4.3
PPG-TF-138	6.0	TRAVERSE 2 SRP (W45)	4.3
REGENERATE	6.0	VERT (ATF 1612)	4.3
SWAGGER (PST-5R05)	6.0	W41	4.3
CROSSFIRE 4 (IS-TF 310 SEL)	5.7	BAR FA 121095	4.0
DYNAMITE LS (PPG-TF-145)	5.7	DIABLO (IS-TF 330)	4.0
JS 916	5.7	FALCON IV	4.0
PPG-TF-135	5.7	RHIZING MOON (IS-TF 305 SEL)	4.0
REBEL V (ATF 1736)	5.7	JS 825	3.7
THUNDERSTRUCK (TD1)	5.7	K12-05	3.7
TITANIUM 2LS (PPG-TF-152)	5.7	K12-MCD	3.7
		MERIDIAN (PST-5GRB)	3.7

TABLE 26. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

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

NAME	NJ2
TEMPLE (DZ1)	3.7
UNITUS (IS-TF 289)	3.7
HOVER (BURL TF-69)	3.3
IS-TF 272	3.3
JS 818	3.3
JS 819	3.3
FRONTLINE (EXP TF-09)	3.0
MEMPHIS (GO-DFR)	3.0
RAD-TF-89	3.0
ANNIHILATOR	2.7
BAR FA 120878	2.7
BAR FA 121091	2.7
JS 809	2.7
OLYMPUS (RAD-TF-88)	2.7
RAD-TF-83	2.7
WARHAWK	2.7
RAIN DANCE (PST-5SDT)	2.3
K12-13	2.0
KY-31	2.0
RAD-TF-92	2.0
204 RES. BLK4	1.7
MARAUDER	1.7
COMP. RES. SST	1.0
LSD VALUE	2.1
C.V. (%)	26.9

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. PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	CA3	NAME	CA3
ATF 1704	9.0	JS 819	8.3
CAESAR (TY 10)	9.0	JS 916	8.3
LEONARDO (LTP-FSD)	9.0	K12-MCD	8.3
MARAUDER	9.0	MEMPHIS (GO-DFR)	8.3
REFLECTION (U45)	9.0	MET 1	8.3
4TH MILLENNIUM SRP (U43)	8.7	MET-3	8.3
ANNIHILATOR	8.7	PARAMOUNT (PPG-TF-137)	8.3
AQUADUCT	8.7	PPG-TF-115	8.3
BLACK TAIL (PPG-TF-150)	8.7	PPG-TF-135	8.3
DIABLO (IS-TF 330)	8.7	PSG-GSD	8.3
FAITH	8.7	PSG-P01	8.3
FOXHOUND (IS-TF 284 M2)	8.7	PST-5BP0	8.3
INSPIRATION (PST-R5NW)	8.7	REGENERATE	8.3
IS-TF 272	8.7	ROWDY (SRX-TPC)	8.3
IS-TF 276 M2	8.7	SALTILLO (PST-5SALT)	8.3
IS-TF 311	8.7	SCREAMER LS (PPG-TF-148)	8.3
JS 818	8.7	STANDOUT (IS-TF 308 SEL)	8.3
JS 825	8.7	TEMPLE (DZ1)	8.3
K12-05	8.7	TERRANO	8.3
K12-13	8.7	TRENDING (IS-TF 269 SEL)	8.3
KINGDOM (DB1)	8.7	XTENDER (PPG-TF-139)	8.3
KY-31	8.7	204 RES. BLK4	8.0
MAESTRO (T31)	8.7	BAR FA 120878	8.0
MERIDIAN (PST-5GRB)	8.7	BAR FA 121095	8.0
OLYMPUS (RAD-TF-88)	8.7	DYNAMITE LS (PPG-TF-145)	8.0
PPG-TF-169	8.7	FALCON IV	8.0
PST-5BRK	8.7	FALCON V	8.0
PST-5DZP	8.7	FAYETTE (IS-TF 291)	8.0
RAIN DANCE (PST-5SDT)	8.7	FIREWALL (PSG-WE1)	8.0
ROCKWELL (LTP-TWUU)	8.7	GRANDE 3	8.0
TURFWAY (IS-TF 282 M2)	8.7	HOT ROD (BURL TF-136)	8.0
UNITUS (IS-TF 289)	8.7	JS 809	8.0
VALKYRIE LS (PPG-TF-172)	8.7	MICHELANGELO (LTP-F5DPDR)	8.0
VERT (ATF 1612)	8.7	PSG-8BP2	8.0
WARHAWK	8.7	PST-5EX2	8.0
ARES (PPG-TF-142)	8.3	RAD-TF-89	8.0
ATF 1754	8.3	RAD-TF-92	8.0
BAR FA 121089	8.3	RAPTOR III (ZW 44)	8.0
BLOODHOUND (MET 6 SEL)	8.3	REBOUNDER (PICK-W43)	8.0
BULLSEYE	8.3	RHAMBLER 2 SRP (LSD)	8.0
COMP. RES. SST	8.3	RHIZING MOON (IS-TF 305 SEL)	8.0
F711	8.3	SWAGGER (PST-5R05)	8.0
FIREBIRD 2	8.3	TEMPTATION (OR-21)	8.0
FIRECRACKER SLS (PPG-TF-105)	8.3	THUNDERSTRUCK (TD1)	8.0
GTO (BURL TF-2)	8.3	B23	7.7
HOUNDOG8 (IS-TF 307 SEL)	8.3	BAR FA 121091	7.7
		EMBRACE (PST-5EV2)	7.7

TABLE 27. PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

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

NAME	CA3
FESNOVA	7.7
FRONTLINE (EXP TF-09)	7.7
HEMI	7.7
NIGHTCRAWLER (IS-TF 285)	7.7
PPG-TF-138	7.7
PSG-TT4	7.7
RAD-TF-83	7.7
SUPERSONIC (PPG-TF-170)	7.7
TECHNIQUE (RZ2)	7.7
TITANIUM 2LS (PPG-TF-152)	7.7
AMITY (CCR2)	7.3
CROSSFIRE 4 (IS-TF 310 SEL)	7.3
HOVER (BURL TF-69)	7.3
IS-TF-287	7.3
PST-5MVD	7.3
TRINITY (BIZEM)	7.3
W41	7.3
WICHITA (PPG-TF-151)	7.3
AVENGER II (PPG-TF-156)	7.0
CATALYST	7.0
REBEL V (ATF 1736)	7.0
THOR (PPG-TF-157)	7.0
TRAVERSE 2 SRP (W45)	6.7
LSD VALUE	1.6
C.V. (%)	11.8

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 28. FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	NE1	NAME	NE1
RAD-TF-92	6.0	MERIDIAN (PST-5GRB)	5.0
REGENERATE	6.0	MET 1	5.0
4TH MILLENNIUM SRP (U43)	5.7	MET-3	5.0
AMITY (CCR2)	5.7	MICHELANGELO (LTP-F5DPDR)	5.0
BLOODHOUND (MET 6 SEL)	5.7	OLYMPUS (RAD-TF-88)	5.0
F711	5.7	PARAMOUNT (PPG-TF-137)	5.0
FIREWALL (PSG-WE1)	5.7	PPG-TF-115	5.0
PPG-TF-135	5.7	PPG-TF-138	5.0
HOT ROD (BURL TF-136)	5.3	PPG-TF-169	5.0
IS-TF 311	5.3	PSG-PO1	5.0
KINGDOM (DB1)	5.3	PST-5BP0	5.0
LEONARDO (LTP-FSD)	5.3	PST-5EX2	5.0
RAPTOR III (ZW 44)	5.3	RAD-TF-83	5.0
REBOUNDER (PICK-W43)	5.3	RAD-TF-89	5.0
REFLECTION (U45)	5.3	REBEL V (ATF 1736)	5.0
ROCKWELL (LTP-TWUU)	5.3	RHAMBLER 2 SRP (LSD)	5.0
SALTILLO (PST-5SALT)	5.3	RHIZING MOON (IS-TF 305 SEL)	5.0
STANDOUT (IS-TF 308 SEL)	5.3	ROWDY (SRX-TPC)	5.0
TECHNIQUE (RZ2)	5.3	SUPERSONIC (PPG-TF-170)	5.0
TEMPLE (DZ1)	5.3	SWAGGER (PST-5R05)	5.0
THOR (PPG-TF-157)	5.3	TEMPTATION (OR-21)	5.0
TRAVERSE 2 SRP (W45)	5.3	THUNDERSTRUCK (TD1)	5.0
TRENDING (IS-TF 269 SEL)	5.3	TITANIUM 2LS (PPG-TF-152)	5.0
WICHITA (PPG-TF-151)	5.3	VALKYRIE LS (PPG-TF-172)	5.0
ATF 1704	5.0	VERT (ATF 1612)	5.0
AVENGER II (PPG-TF-156)	5.0	W41	5.0
B23	5.0	XTENDER (PPG-TF-139)	5.0
BLACK TAIL (PPG-TF-150)	5.0	ATF 1754	4.7
CATALYST	5.0	BAR FA 121089	4.7
EMBRACE (PST-5EV2)	5.0	BAR FA 121091	4.7
FAITH	5.0	BULLSEYE	4.7
FALCON V	5.0	CAESAR (TY 10)	4.7
FAYETTE (IS-TF 291)	5.0	DIABLO (IS-TF 330)	4.7
FESNOVA	5.0	FALCON IV	4.7
FIRECRACKER SLS (PPG-TF-105)	5.0	HOVER (BURL TF-69)	4.7
FOXHOUND (IS-TF 284 M2)	5.0	INSPIRATION (PST-R5NW)	4.7
GRANDE 3	5.0	JS 819	4.7
GTO (BURL TF-2)	5.0	K12-13	4.7
HEMI	5.0	MEMPHIS (GO-DFR)	4.7
HOUND0G8 (IS-TF 307 SEL)	5.0	PSG-8BP2	4.7
IS-TF 272	5.0	PSG-GSD	4.7
IS-TF-287	5.0	PST-5DZP	4.7
JS 916	5.0	PST-5MVD	4.7
K12-05	5.0	RAIN DANCE (PST-5SDT)	4.7
K12-MCD	5.0	SCREAMER LS (PPG-TF-148)	4.7
MAESTRO (T31)	5.0	TERRANO	4.7
		TRINITY (BIZEM)	4.7

TABLE 28. FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

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

NAME	NE1
TURFWAY (IS-TF 282 M2)	4.7
UNITUS (IS-TF 289)	4.7
204 RES. BLK4	4.3
AQUADUCT	4.3
ARES (PPG-TF-142)	4.3
CROSSFIRE 4 (IS-TF 310 SEL)	4.3
DYNAMITE LS (PPG-TF-145)	4.3
FIREBIRD 2	4.3
FRONTLINE (EXP TF-09)	4.3
IS-TF 276 M2	4.3
JS 809	4.3
JS 825	4.3
PSG-TT4	4.3
PST-5BRK	4.3
WARHAWK	4.3
ANNIHILATOR	4.0
BAR FA 120878	4.0
BAR FA 121095	4.0
COMP. RES. SST	4.0
JS 818	4.0
MARAUDER	4.0
NIGHTCRAWLER (IS-TF 285)	4.0
KY-31	3.0
LSD VALUE	0.8
C.V. (%)	9.7

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

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

TABLE 29. FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2017 DATA

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

NAME	IL1	NAME	IL1
AVENGER II (PPG-TF-156)	7.3	CAESAR (TY 10)	6.7
FALCON IV	7.3	CATALYST	6.7
IS-TF 272	7.3	CROSSFIRE 4 (IS-TF 310 SEL)	6.7
REBEL V (ATF 1736)	7.3	DYNAMITE LS (PPG-TF-145)	6.7
SALTILLO (PST-5SALT)	7.3	EMBRACE (PST-5EV2)	6.7
TEMPLE (DZ1)	7.3	F711	6.7
TURFWAY (IS-TF 282 M2)	7.3	FIREWALL (PSG-WE1)	6.7
UNITUS (IS-TF 289)	7.3	FRONTLINE (EXP TF-09)	6.7
ANNIHILATOR	7.0	HEMI	6.7
AQUADUCT	7.0	HOT ROD (BURL TF-136)	6.7
B23	7.0	HOVER (BURL TF-69)	6.7
BLOODHOUND (MET 6 SEL)	7.0	JS 825	6.7
DIABLO (IS-TF 330)	7.0	JS 916	6.7
FAYETTE (IS-TF 291)	7.0	K12-MCD	6.7
FIRECRACKER SLS (PPG-TF-105)	7.0	KINGDOM (DB1)	6.7
FOXHOUND (IS-TF 284 M2)	7.0	LEONARDO (LTP-FSD)	6.7
GRANDE 3	7.0	MAESTRO (T31)	6.7
GTO (BURL TF-2)	7.0	MARAUDER	6.7
HOUNDOG8 (IS-TF 307 SEL)	7.0	MERIDIAN (PST-5GRB)	6.7
INSPIRATION (PST-R5NW)	7.0	MET 1	6.7
IS-TF 311	7.0	NIGHTCRAWLER (IS-TF 285)	6.7
IS-TF-287	7.0	PPG-TF-115	6.7
JS 818	7.0	PPG-TF-135	6.7
JS 819	7.0	PPG-TF-138	6.7
K12-13	7.0	PPG-TF-169	6.7
MET-3	7.0	PSG-GSD	6.7
MICHELANGELO (LTP-F5DPDR)	7.0	PSG-P01	6.7
OLYMPUS (RAD-TF-88)	7.0	PST-5BP0	6.7
RHAMBLER 2 SRP (LSD)	7.0	PST-5BRK	6.7
RHIZING MOON (IS-TF 305 SEL)	7.0	PST-5EX2	6.7
ROCKWELL (LTP-TWUU)	7.0	PST-5MVD	6.7
STANDOUT (IS-TF 308 SEL)	7.0	RAD-TF-92	6.7
TEMPTATION (OR-21)	7.0	RAIN DANCE (PST-5SDT)	6.7
THOR (PPG-TF-157)	7.0	RAPTOR III (ZW 44)	6.7
TRAVERSE 2 SRP (W45)	7.0	ROWDY (SRX-TPC)	6.7
TRENDING (IS-TF 269 SEL)	7.0	SUPERSONIC (PPG-TF-170)	6.7
VERT (ATF 1612)	7.0	THUNDERSTRUCK (TD1)	6.7
WICHITA (PPG-TF-151)	7.0	TITANIUM 2LS (PPG-TF-152)	6.7
204 RES. BLK4	6.7	WARHAWK	6.7
4TH MILLENNIUM SRP (U43)	6.7	AMITY (CCR2)	6.3
ARES (PPG-TF-142)	6.7	BAR FA 121091	6.3
ATF 1704	6.7	COMP. RES. SST	6.3
ATF 1754	6.7	FALCON V	6.3
BAR FA 121089	6.7	FESNOVA	6.3
BLACK TAIL (PPG-TF-150)	6.7	FIREBIRD 2	6.3
BULLSEYE	6.7	JS 809	6.3
		K12-05	6.3

TABLE 29. FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2017 DATA

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

NAME	IL1
MEMPHIS (GO-DFR)	6.3
PARAMOUNT (PPG-TF-137)	6.3
PSG-8BP2	6.3
PST-5DZP	6.3
RAD-TF-83	6.3
RAD-TF-89	6.3
REBOUNDER (PICK-W43)	6.3
REFLECTION (U45)	6.3
SCREAMER LS (PPG-TF-148)	6.3
SWAGGER (PST-5R05)	6.3
TECHNIQUE (RZ2)	6.3
TERRANO	6.3
W41	6.3
XTENDER (PPG-TF-139)	6.3
BAR FA 120878	6.0
BAR FA 121095	6.0
FAITH	6.0
IS-TF 276 M2	6.0
PSG-TT4	6.0
REGENERATE	6.0
VALKYRIE LS (PPG-TF-172)	6.0
KY-31	5.7
TRINITY (BIZEM)	5.7
LSD VALUE	1.0
C.V. (%)	9.5

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

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

TABLE 30. 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
MERIDIAN (PST-5GRB)	9.0	5.5	7.8
VALKYRIE LS (PPG-TF-172)	8.3	6.5	7.8
AQUADUCT	8.3	3.0	7.7
K12-05	9.0	5.0	7.7
DIABLO (IS-TF 330)	9.0	6.0	7.5
DYNAMITE LS (PPG-TF-145)	9.0	4.5	7.5
FRONTLINE (EXP TF-09)	9.0	4.5	7.5
TURFWAY (IS-TF 282 M2)	9.0	6.0	7.5
WICHITA (PPG-TF-151)	9.0	6.0	7.5
BAR FA 120878	9.0	4.0	7.3
ATF 1704	9.0	5.3	7.2
FALCON IV	9.0	3.5	7.2
MET-3	9.0	3.5	7.2
PPG-TF-135	9.0	3.5	7.2
PST-5EX2	9.0	5.3	7.2
REBEL V (ATF 1736)	9.0	5.3	7.2
TEMPTATION (OR-21)	9.0	5.3	7.2
TRINITY (BIZEM)	9.0	5.3	7.2
UNITUS (IS-TF 289)	9.0	3.5	7.2
BULLSEYE	9.0	5.0	7.0
GTO (BURL TF-2)	8.3	4.0	7.0
PPG-TF-138	9.0	5.0	7.0
SUPERSONIC (PPG-TF-170)	9.0	5.0	7.0
TERRANO	8.3	5.7	7.0
FOXHOUND (IS-TF 284 M2)	8.3	5.3	6.8
GRANDE 3	9.0	4.7	6.8
MAESTRO (T31)	9.0	4.7	6.8
PSG-GSD	9.0	4.7	6.8
PSG-TT4	9.0	2.5	6.8
PST-5BRK	9.0	4.7	6.8
PST-5DZP	8.3	5.3	6.8
RAD-TF-92	9.0	2.5	6.8
REFLECTION (U45)	9.0	4.7	6.8
REGENERATE	9.0	4.7	6.8
ROWDY (SRX-TPC)	9.0	4.7	6.8
SWAGGER (PST-5R05)	8.3	5.3	6.8
VERT (ATF 1612)	9.0	4.7	6.8
XTENDER (PPG-TF-139)	9.0	4.7	6.8
ARES (PPG-TF-142)	8.3	3.0	6.7
CATALYST	8.3	3.0	6.7
CROSSFIRE 4 (IS-TF 310 SEL)	9.0	4.3	6.7
FAITH	9.0	4.3	6.7
FESNOVA	9.0	4.3	6.7
INSPIRATION (PST-R5NW)	9.0	4.3	6.7
MARAUDER	8.3	3.0	6.7

TABLE 30. 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
PSG-P01	9.0	4.3	6.7
REBOUNDER (PICK-W43)	9.0	4.3	6.7
RHAMBLER 2 SRP (LSD)	9.0	4.3	6.7
THOR (PPG-TF-157)	8.3	5.0	6.7
THUNDERSTRUCK (TD1)	9.0	4.3	6.7
4TH MILLENNIUM SRP (U43)	9.0	4.0	6.5
ATF 1754	9.0	4.0	6.5
AVENGER II (PPG-TF-156)	9.0	4.0	6.5
B23	9.0	4.0	6.5
BAR FA 121091	9.0	4.0	6.5
BLOODHOUND (MET 6 SEL)	9.0	4.0	6.5
EMBRACE (PST-5EV2)	9.0	4.0	6.5
F711	9.0	4.0	6.5
FAYETTE (IS-TF 291)	8.3	4.7	6.5
HEMI	9.0	4.0	6.5
IS-TF 272	9.0	4.0	6.5
IS-TF 276 M2	7.7	5.3	6.5
IS-TF-287	7.7	3.5	6.5
KINGDOM (DB1)	9.0	4.0	6.5
MEMPHIS (GO-DFR)	7.7	3.5	6.5
PPG-TF-169	9.0	4.0	6.5
TITANIUM 2LS (PPG-TF-152)	9.0	4.0	6.5
TRENDING (IS-TF 269 SEL)	8.3	4.7	6.5
BAR FA 121089	9.0	3.7	6.3
CAESAR (TY 10)	7.7	5.0	6.3
FALCON V	9.0	3.7	6.3
JS 916	9.0	3.7	6.3
K12-MCD	9.0	3.7	6.3
KY-31	8.3	4.3	6.3
MET 1	8.3	4.3	6.3
MICHELANGELO (LTP-F5DPDR)	9.0	3.7	6.3
PPG-TF-115	9.0	3.7	6.3
PST-5BP0	8.3	4.3	6.3
RAPTOR III (ZW 44)	9.0	3.7	6.3
SALTILLO (PST-5SALT)	8.3	4.3	6.3
AMITY (CCR2)	9.0	3.3	6.2
ANNIHILATOR	9.0	3.3	6.2
BAR FA 121095	9.0	3.3	6.2
BLACK TAIL (PPG-TF-150)	9.0	3.3	6.2
FIRECRACKER SLS (PPG-TF-105)	9.0	3.3	6.2
HOT ROD (BURL TF-136)	9.0	3.3	6.2
IS-TF 311	7.7	4.7	6.2
JS 819	9.0	3.3	6.2
JS 825	9.0	3.3	6.2
NIGHTCRAWLER (IS-TF 285)	8.3	4.0	6.2

TABLE 30. 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 */
2017 DATA
TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/	NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
204 RES. BLK4	5.8	6.3	IS-TF-287	6.2	0.0
4TH MILLENNIUM SRP (U43)	6.8	75.0	JS 809	5.7	0.0
AMITY (CCR2)	6.7	81.3	JS 818	5.9	6.3
ANNIHILATOR	5.5	0.0	JS 819	5.8	12.5
AQUADUCT	5.4	0.0	JS 825	5.4	0.0
ARES (PPG-TF-142)	5.9	6.3	JS 916	6.4	37.5
ATF 1704	6.3	12.5	K12-05	6.1	12.5
ATF 1754	6.2	18.8	K12-13	5.7	0.0
AVENGER II (PPG-TF-156)	6.5	43.8	K12-MCD	6.1	18.8
B23	6.2	18.8	KINGDOM (DB1)	6.1	6.3
BAR FA 120878	4.8	0.0	KY-31	3.8	0.0
BAR FA 121089	5.6	0.0	LEONARDO (LTP-FSD)	6.4	37.5
BAR FA 121091	5.5	0.0	MAESTRO (T31)	6.5	37.5
BAR FA 121095	5.7	6.3	MARAUDER	5.5	0.0
BLACK TAIL (PPG-TF-150)	6.5	43.8	MEMPHIS (GO-DFR)	5.9	6.3
BLOODHOUND (MET 6 SEL)	6.3	12.5	MERIDIAN (PST-5GRB)	6.2	6.3
BULLSEYE	6.1	12.5	MET 1	6.7	75.0
CAESAR (TY 10)	6.0	18.8	MET-3	6.3	18.8
CATALYST	6.0	6.3	MICHELANGELO (LTP-F5DPDR)	6.3	25.0
COMP. RES. SST	5.6	0.0	NIGHTCRAWLER (IS-TF 285)	6.0	6.3
CROSSFIRE 4 (IS-TF 310 SEL)	6.4	43.8	OLYMPUS (RAD-TF-88)	6.1	25.0
DIABLO (IS-TF 330)	6.3	25.0	PARAMOUNT (PPG-TF-137)	6.5	50.0
DYNAMITE LS (PPG-TF-145)	6.0	6.3	PPG-TF-115	6.2	12.5
EMBRACE (PST-5EV2)	6.4	37.5	PPG-TF-135	6.5	50.0
F711	6.6	68.8	PPG-TF-138	6.3	18.8
FAITH	6.3	31.3	PPG-TF-169	6.4	43.8
FALCON IV	5.6	6.3	PSG-8BP2	5.7	0.0
FALCON V	6.1	12.5	PSG-GSD	5.8	0.0
FAYETTE (IS-TF 291)	6.3	18.8	PSG-P01	6.5	56.3
FESNOVA	6.1	6.3	PSG-TT4	5.9	0.0
FIREBIRD 2	6.3	25.0	PST-5BPO	6.2	25.0
FIRECRACKER SLS (PPG-TF-105)	6.4	37.5	PST-5BRK	6.1	18.8
FIREWALL (PSG-WE1)	6.3	37.5	PST-5DZP	5.8	6.3
FOXHOUND (IS-TF 284 M2)	6.3	25.0	PST-5EX2	5.9	12.5
FRONTLINE (EXP TF-09)	5.4	6.3	PST-5MVD	6.0	6.3
GRANDE 3	6.4	43.8	RAD-TF-83	5.8	0.0
GTO (BURL TF-2)	6.5	50.0	RAD-TF-89	6.2	18.8
HEMI	6.4	37.5	RAD-TF-92	6.2	18.8
HOT ROD (BURL TF-136)	6.4	50.0	RAIN DANCE (PST-5SDT)	5.7	6.3
HOUNDOG8 (IS-TF 307 SEL)	6.2	6.3	RAPTOR III (ZW 44)	6.6	75.0
HOVER (BURL TF-69)	6.2	25.0	REBEL V (ATF 1736)	6.1	6.3
INSPIRATION (PST-R5NW)	5.7	0.0	REBOUNDER (PICK-W43)	6.5	62.5
IS-TF 272	6.1	18.8	REFLECTION (U45)	6.6	62.5
IS-TF 276 M2	6.1	12.5	REGENERATE	6.7	75.0
IS-TF 311	6.4	50.0	RHAMBLER 2 SRP (LSD)	6.2	6.3

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR TALL FESCUE CULTIVARS
(CONT'D) 2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
RHIZING MOON (IS-TF 305 SEL)	6.3	25.0
ROCKWELL (LTP-TWUJ)	6.5	43.8
ROWDY (SRX-TPC)	6.5	37.5
SALTILLO (PST-5SALT)	6.2	25.0
SCREAMER LS (PPG-TF-148)	6.4	31.3
STANDOUT (IS-TF 308 SEL)	6.4	25.0
SUPERSONIC (PPG-TF-170)	6.5	56.3
SWAGGER (PST-5R05)	5.8	0.0
TECHNIQUE (RZ2)	6.5	43.8
TEMPLE (DZ1)	6.4	37.5
TEMPTATION (OR-21)	5.8	6.3
TERRANO	5.9	12.5
THOR (PPG-TF-157)	6.6	62.5
THUNDERSTRUCK (TD1)	6.1	25.0
TITANIUM 2LS (PPG-TF-152)	6.6	56.3
TRAVERSE 2 SRP (W45)	6.6	62.5
TRENDING (IS-TF 269 SEL)	6.4	43.8
TRINITY (BIZEM)	6.5	56.3
TURFWAY (IS-TF 282 M2)	6.3	12.5
UNITUS (IS-TF 289)	6.0	12.5
VALKYRIE LS (PPG-TF-172)	6.5	37.5
VERT (ATF 1612)	6.3	31.3
W41	6.5	37.5
WARHAWK	5.3	0.0
WICHITA (PPG-TF-151)	6.4	18.8
XTENDER (PPG-TF-139)	6.3	12.5
LSD VALUE	0.2	
C.V. (%)	7.6	

*/ 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.