

## **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, one member from the Sports Turf Managers Association of America (STMA), 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>.

2018 NATIONAL TALL FESCUE TEST

LOCATIONS SUBMITTING DATA 2018-2023

State/Province	Location	Code
California	Fresno	CA7
Connecticut	Storrs	CT1
Delaware	Newark	DE1
Georgia	Griffin	GA1
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Iowa	Ames (Traffic)	IA2
Iowa	Ames (Shade)	IA3
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Maryland	College Park	MD1
Massachusetts	Amherst	MA1
Michigan	East Lansing	MI1
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
Oklahoma	Stillwater	OK1
Ontario	Guelph	ON1
Oregon	Corvallis	OR1
Pennsylvania	Reading	PA2
Tennessee	Knoxville	TN1
Utah	Logan	UT1
Utah	Logan (Drought)	UT2
Virginia	Blacksburg (3" Height)	VA1
Virginia	Blacksburg (1.5" Height)	VA2

## 2018 NATIONAL TALL FESCUE TEST ENTRIES AND SPONSORS

ENTRY	NAME	SPONSOR	ENTRY	NAME	SPONSOR	ENTRY	NAME	SPONSOR
*1	Naturally Green	Carlton Seed Co.	45	PST-5MINK	Pure Seed Testing	*89	Spyder 2LS (ZRC1)	Mountain View Seeds
*2	Paramount	Standard	*46	Moondance GLX	Integrated Seed Growers	90	PPG-TF 231	Peak Plant Genetics LLC
3	DLFPS-321/3693	DLF USA	*47	Monument (PST-5SQB)	Site One Land. Supply	*91	Rover (PPG-TF 306)	Landmark Turf & Native Seed
4	DLFPS-321/3694	DLF USA	48	PST-5DZM	Pure Seed Testing	92	PPG-TF 318	Peak Plant Genetics LLC
5	DLFPS-321/3695	DLF USA	*49	GLX Revive (PST-5GLBS)	Pure Seed Testing	*93	Bullseye	Standard
*6	SR 8700 (TMT1)	DLF USA	*50	GLX ACED (PST-5DART)	Pure Seed (Rose Agri)	*94	Firehawk SLT	Burlingham Seeds
7	ATF2116	Pennington Seed	51	PST-5DC24	Pure Seed (Rose Agri)	*95	Hemi	Standard
8	NT-3	Pennington Seed	*52	Tango	Site One Land. Supply	*96	Bullseye LTZ	Burlingham Seeds
9	RS1	DLF USA	*53	Endgame (3N1)	Site One Land. Supply	97	RAD-TF 115 (Turbo SS)	Burlingham Seeds
10	5LSS	Pure Seed Testing	*54	Bandit	Site One Land. Supply	*98	Dragster	Burlingham Seeds
*11	TopShelf (BGR-TF3)	Berger International	*55	Copious TF	Site One Land. Supply	*99	Providence (GO-RH20)	Grassland Oregon Seed
12	ATF1768	Pennington Seed	*56	Padre 2	Site One Land. Supply	*100	Birmingham	Grassland Oregon Seed
*13	Gallardo (DLFPS-TF/3550)	DLF USA	*57	Bravo 2	Site One Land. Supply	*101	Lafayette (GO-AOMK)	Grassland Oregon Seed
*14	Essential 2 (DLFPS-TF/3552)	DLF USA	58	NAI-FQZ-17	Lakeside Ag. Ventures	*102	Talladega II (NAI-3N2)	The Scotts Company
15	DLFPS-TF/3553	DLF USA	*59	Capitan (DLFPS-321/3705)	DLF USA	*103	Battle Hawk (NAI-ROS4)	Landmark Turf & Native Seed
*16	Bentley (DLFPS-321/3679)	DLF USA	60	DLFPS-321/3706	DLF USA	*104	Tough (NAI-TUE)	The Scotts Company
17	LBF	Tualatin Valley Seeds	61	DLFPS-321/3707	DLF USA	105	NAI-ST5	Landmark Turf & Native Seed
18	TD2	Pennington Seed	62	DLFPS-321/3708	DLF USA	*106	Gro-Pro (SE53D2)	Smith Seed Services, LLC
*19	Raceway (DLFPS-321/3696)	DLF USA	*63	Zion (BAR TF 134)	Barenbrug USA	107	SESSTAR	Smith Seed Services, LLC
*20	Rowdier (DLFPS-321/3699)	DLF USA	64	BAR-FA8230	Barenbrug USA	*108	Galactic (SESCR1)	Smith Seed Services, LLC
*21	Grande 3	DLF USA	*65	Clash (AH1)	Landmark Turf & Native Seed	*109	Fairfield (SETF104)	Smith Seed Services, LLC
*22	Fayette	Standard	66	PPG-TF 249	Landmark Turf & Native Seed	110	SETFM2	Smith Seed Services, LLC
23	JT 517	Barenbrug USA	*67	Expanse (PPG-TF 262)	Landmark Turf & Native Seed	111	SETFM3	Smith Seed Services, LLC
*24	Bonfire (JS DTT)	Barenbrug USA	*68	Southside (PPG-TF 267)	Landmark Turf & Native Seed	112	3B2	ProSeeds Marketing
25	RDC	DLF USA	*69	Daybreak (AH2)	BrettYoung	113	RAD-TF105	Radix Research
*26	Barnoble (BAR 9FE MAS)	Barenbrug USA	*70	Fierce (K18-RS6)	The Scotts Company	114	RAD-TF131	Radix Research
27	BAR FA 8228	Barenbrug USA	71	K18-WB1	The Scotts Company	115	RHL2	Semillas Fito
*28	Tycoon (COL-TF-148)	The Scotts Company	*72	Falcon Supreme (RH1)	ProSeeds Marketing Inc.	*116	Raptor III	Standard
*29	O'Keefe (LTP-TF-122)	Lebanon Seaboard Corp.	73	Finelawn Supreme (RH3)	ProSeeds Marketing Inc.	117	RHF	Semillas Dalmau
*30	Degas (LTP-TF-111)	Lebanon Seaboard Corp.	74	JT 233	Vista Seed Partners, LLC	*118	Teacher (PPG-TF 313)	The Scotts Company
*31	Kizzle (K18-ROE)	The Scotts Company	*75	Xanadu (JT 268 )	Barenbrug USA	*119	Serenade (PPG-TF 320)	Integra Turf, Inc.
32	K18-NSE	The Scotts Company	*76	Firenza II (PPG-TF 244)	Integra Turf, Inc.	*120	Triad (PPG-TF 323)	The Scotts Company
*33	Fastlane (BY-TF-169)	BrettYoung	*77	Symphony (PPG-TF 305)	Integra Turf, Inc.	*121	Tank (PPG-TF 338)	The Scotts Company
*34	Bladerunner 3 (DLFPS-321/3701)	DLF USA	*78	Gem (PPG-TF 316)	Lewis Seed Co.	122	Estrena	Semillas Dalmau
*35	Hounddog Nine (DLFPS-321/3702)	DLF USA	79	RC4	Semillas Fito	*123	AST8118LM	Allied Seed LLC
36	DLFPS-321/3703	DLF USA	*80	Valsetz (PPG-TF 257)	Vista Seed Partners, LLC	*124	AST8218LM	Allied Seed LLC
37	PST-5TRN	Pure Seed Testing	*81	Stealth (PPG-TF 238)	Mountain View Seeds	125	A-TF31	Allied Seed LLC
38	PST-5GQ	Pure Seed Testing	*82	Dynamite G-LS (PPG-TF 254)	Mountain View Seeds	*126	Palomar	DLF USA Seed
*39	Extravaganza (PST-5MCMO)	Pure Seed Testing	*83	Avenger III (PPG-TF 308)	Mountain View Seeds	*127	Escalade	DLF USA Seed
40	Pro Gold	Integrated Seed Growers	*84	Titanium G-LS (PPG-TF 255)	Mountain View Seeds	*128	OG-WALK	DLF USA Seed
*41	Hellcat GLR (PST-5E6)	Turf Merchants	85	PPG-TF 312	Mountain View Seeds	*129	Titan GLX (TF445)	Smith Seed Services
*42	Tar Heel III (PST-5THM)	Pure Seed Testing	*86	Firecracker G-LS (PPG-TF 315)	Mountain View Seeds	*130	Titan Max (TF456)	Smith Seed Services
*43	Oriole (PST-5BYOB)	Newsom Seed	*87	Raptor LS (PPG-TF 336)	Mountain View Seeds	*131	Grand Prix (FC15-01P)	Criadero El Concerro SA
*44	Lifeguard	Pure Seed (Rose Agri)	88	PPG-TF 337	Mountain View Seeds	*132	Kentucky-31	Standard

\*COMMERCIALY AVAILABLE IN THE USA OR ANY OTHER COUNTRY IN 2024



TABLE A.

2018-23 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2018 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
CA7	SANDY LOAM	7.6-8.5	0-60	0-150	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
CT1	SANDY LOAM	6.1-6.5	61-150	151-240	-	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
DE1	-	6.6-7.0	0-60	0-150	-	-	-	-
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	LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
IA2	LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
IA3	LOAM	7.1-7.5	0-60	0-150	2.1-3.0	PARTIAL SHADE	2.1-2.5	TO PREVENT DORMANCY
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	4.1+	ONLY DURING SEVERE STRESS
KS1	SILTY CLAY LOAM	7.1-7.5	61-150	0-150	1.1-2.0	FULL SUN	1.6-2.0	NO IRRIGATION
KY1	SILT LOAM AND SILT	-	-	-	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
MA1	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
MI1	-	-	-	-	-	-	-	-
MO1	-	-	-	-	-	-	-	-
MS1	SANDY LOAM	7.1-7.5	271-450	501+	2.1-3.0	FULL SUN	3.1-3.5	TO PREVENT DORMANCY
NC1	LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ1	LOAM	5.6-6.0	61-150	241-375	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	271-450	241-375	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NJ3	LOAM	5.6-6.0	61-150	241-375	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OK1	LOAM	7.1-7.5	61-150	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
ON1	-	7.1-7.5	0-60	0-150	0.0-1.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
OR1	SILTY CLAY LOAM	5.6-6.0	0-60	0-150	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
PA2	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
TN1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
UT1	SILT LOAM AND SILT	7.6-8.5	-	-	-	FULL SUN	2.6-3.0	TO PREVENT STRESS
UT2	SILT LOAM AND SILT	7.6-8.5	-	-	-	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
VA1	SILTY CLAY LOAM	5.6-6.0	0-60	0-150	1.1-2.0	FULL SUN	3.1-3.5	ONLY DURING SEVERE STRESS
VA2	SILTY CLAY LOAM	5.6-6.0	0-60	0-150	1.1-2.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2018-23

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
CA7						X	X	X	X	X	X	X			
CT1				X	X	X	X	X	X	X	X	X	X	X	X
DE1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GA1	X	X	X	X	X	X	X	X	X	X	X	X	X		
IA1				X	X	X	X	X	X	X	X	X	X	X	X
IA2				X	X	X	X	X	X	X	X	X	X	X	X
IA3				X	X	X	X	X	X	X	X	X	X	X	X
IN1				X	X	X	X	X	X	X	X	X	X	X	X
KS1				X	X	X	X	X	X	X	X	X	X		X
KY1			X	X	X	X	X	X	X	X	X	X			
MA1				X	X	X	X	X	X	X	X	X			
MD1				X	X	X	X	X	X	X	X			X	
MI1					X	X	X	X	X	X			X		X
MO1				X	X	X	X	X	X	X			X		
MS1	X	X	X	X	X	X	X	X	X	X	X	X	X		X
NC1	X	X	X	X	X	X	X	X	X	X	X		X	X	X
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	X
NJ3															
OK1	X	X	X	X	X	X	X	X	X	X	X	X	X		X
ON1				X	X	X	X	X	X	X	X		X	X	X
OR1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
PA2			X	X	X	X	X	X	X	X	X		X	X	X
TN1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UT1					X	X	X	X	X	X	X		X	X	X
UT2				X	X	X	X	X	X	X				X	
VA1				X	X	X	X	X	X	X			X		X
VA2				X	X	X	X	X	X	X			X		X

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2018-23

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	DROUGHT TOLERANCE WILTING	TYPHULA BLIGHT	RED THREAD	BROWN PATCH WARM TEMP.	PYTHIUM BLIGHT	BROWN PATCH COOL TEMP.
CA7					X								X	
CT1	X	X	X	X								X		
DE1		X										X		
GA1														
IA1		X	X	X	X	X	X							
IA2		X	X	X	X	X	X							
IA3		X	X	X	X	X	X							
IN1	X	X	X	X					X			X	X	
KS1												X		
KY1	X													
MA1														
MD1														
MI1				X										
MO1					X						X	X		X
MS1		X	X					X						
NC1		X	X	X	X							X		X
NE1	X	X		X										
NJ1												X		
NJ2				X								X		
NJ3												X		
OK1		X	X	X	X	X	X	X				X	X	
ON1		X	X	X	X	X	X							
OR1			X	X										
PA2					X	X	X			X				X
TN1		X	X	X	X	X	X							
UT1	X		X	X										
UT2					X	X	X							
VA1		X			X		X					X		
VA2		X			X		X							

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2018-23

LOCATION	GRAY LEAF SPOT	PINK SNOW MOLD	PINK PATCH	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	PERCENT ESTABLISH- MENT	QUALITY FALL 2018	UNIFORMITY RATINGS	BROWN JUN	PATCH JUL	AUG	MORE PERCENT ESTABLISH	WEAR MAY	TOLERANCE JUL	OCT
CA7																	
CT1				X	X	X											
DE1						X		X			X	X	X				
GA1									X								
IA1				X	X	X											
* IA2				X	X	X											
* IA3				X	X	X											
IN1												X	X				
KS1																	
KY1																	
MA1								X							X	X	X
MD1																	
MI1					X			X									
MO1																	
MS1								X									
NC1						X		X	X		X	X	X				
NE1					X	X				X							
NJ1	X							X									
NJ2	X							X	X	X							
* NJ3																	
OK1				X	X	X	X		X					X			
* ON1		X												X			
OR1						X		X									
PA2					X	X		X									
TN1																	
UT1						X				X							
UT2		X															
VA1			X														
VA2																	

MORE DATA DOE IA2, IA3, NJ3 AND ON1 IN TABLE 26, 29, 28 AND 63.

TABLE 1.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2019 DATA

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

NAME	ENTRY #	NJ1	NJ2	MD1	KS1	NC1	GA1	MO1	VA1	OR1	DE1	MEAN
SPYDER 2LS (ZRC1)	89	7.4	6.3	6.1	5.6	4.8	6.4	5.7	7.3	5.8	6.3	6.9
RAPTOR LS (PPG-TF 336)	87	7.4	6.2	6.0	5.5	4.6	6.3	5.6	7.1	5.7	6.2	6.8
PPG-TF 318	92	7.1	6.0	5.9	5.4	4.6	6.2	5.5	7.1	5.6	6.1	6.6
RHF	117	7.0	6.0	5.9	5.5	4.6	6.3	5.6	7.1	5.7	6.2	6.5
RHL2	115	7.0	6.0	5.9	5.4	4.6	6.3	5.6	7.1	5.7	6.2	6.5
TANK (PPG-TF 338)	121	6.9	6.0	5.9	5.5	4.6	6.3	5.6	7.2	5.7	6.3	6.5
ROVER (PPG-TF 306)	91	6.9	6.0	6.0	5.6	4.8	6.4	5.8	7.3	5.9	6.4	6.4
TITAN MAX (TF456)	130	6.9	6.0	5.9	5.5	4.7	6.4	5.7	7.2	5.8	6.3	6.4
AVENGER III (PPG-TF 308)	83	6.9	5.9	5.8	5.4	4.6	6.2	5.5	7.1	5.7	6.2	6.4
PPG-TF 312	85	6.9	5.9	5.8	5.4	4.6	6.2	5.5	7.1	5.7	6.2	6.4
TITAN GLX (TF445)	129	6.8	5.9	5.9	5.5	4.7	6.4	5.7	7.2	5.8	6.3	6.4
FIRECRACKER G-LS (PPG-TF 315)	86	6.8	5.9	5.8	5.5	4.6	6.3	5.6	7.2	5.7	6.3	6.4
DAYBREAK (AH2)	69	8.2	6.7	6.5	5.8	4.9	6.5	5.8	7.4	5.9	6.4	6.3
SERENADE (PPG-TF 320)	119	6.7	5.8	5.8	5.4	4.6	6.2	5.5	7.1	5.7	6.2	6.3
TEACHER (PPG-TF 313)	118	6.7	5.8	5.7	5.4	4.6	6.2	5.5	7.1	5.7	6.2	6.3
TITANIUM G-LS (PPG-TF 255)	84	6.6	5.9	5.9	5.6	4.8	6.4	5.8	7.3	5.9	6.4	6.2
*DRAGSTER	98	6.7	5.8	5.7	5.3	4.5	6.1	5.4	7.0	5.6	6.1	6.2
PPG-TF 231	90	6.7	5.7	5.6	5.2	4.4	6.1	5.4	6.9	5.5	6.0	6.2
BATTLE HAWK (NAI-ROS4)	103	6.6	5.8	5.8	5.5	4.6	6.3	5.6	7.2	5.8	6.3	6.2
PPG-TF 337	88	6.6	5.8	5.7	5.4	4.5	6.2	5.5	7.1	5.6	6.2	6.2
FIERCE (K18-RS6)	70	7.9	6.5	6.3	5.7	4.8	6.4	5.7	7.3	5.8	6.3	6.2
TRIAD (PPG-TF 323)	120	6.5	5.7	5.7	5.4	4.6	6.2	5.5	7.1	5.7	6.2	6.1
TD2	18	7.3	6.2	6.1	5.7	4.8	6.5	5.8	7.3	5.9	6.4	6.1
PROVIDENCE (GO-RH20)	99	6.4	5.7	5.6	5.4	4.6	6.2	5.5	7.1	5.7	6.2	6.0
TALLADEGA II (NAI-3N2)	102	6.3	5.6	5.6	5.3	4.5	6.2	5.5	7.0	5.6	6.1	6.0
*BULLSEYE LTZ	96	6.3	5.6	5.6	5.3	4.5	6.2	5.5	7.1	5.7	6.2	6.0
*BONFIRE (JS DTT)	24	7.1	6.1	6.0	5.6	4.7	6.4	5.7	7.3	5.8	6.3	6.0
XANADU (JT 268)	75	7.5	6.2	6.0	5.5	4.6	6.3	5.5	7.1	5.7	6.2	5.9
STEALTH (PPG-TF 238)	81	7.3	6.1	6.0	5.4	4.6	6.2	5.5	7.1	5.6	6.1	5.9
*RAPTOR III	116	6.2	5.5	5.5	5.2	4.4	6.0	5.3	6.9	5.5	6.0	5.9
ROWDIER (DLFPS-321/3699)	20	6.9	6.0	5.9	5.5	4.7	6.3	5.6	7.2	5.8	6.3	5.9
*OKEEFE (LTP-TF-122)	29	7.3	6.1	5.9	5.4	4.5	6.2	5.5	7.0	5.6	6.1	5.8
NAI-ST5	105	6.1	5.5	5.5	5.3	4.5	6.2	5.5	7.1	5.7	6.2	5.8
TYCOON (COL-TF-148)	28	7.1	6.0	5.9	5.4	4.5	6.2	5.5	7.1	5.6	6.1	5.8
FINELAWN SUPREME (RH3)	73	6.8	5.9	5.8	5.5	4.6	6.3	5.6	7.2	5.7	6.3	5.8
DYNAMITE G-LS (PPG-TF 254)	82	6.8	5.9	5.8	5.4	4.6	6.3	5.6	7.1	5.7	6.2	5.8
FASTLANE (BY-TF-169)	33	6.6	5.8	5.8	5.5	4.7	6.3	5.6	7.2	5.8	6.3	5.8
RC4	79	6.9	5.9	5.8	5.4	4.6	6.2	5.5	7.1	5.7	6.2	5.8
CLASH (AH1)	65	6.9	5.9	5.8	5.4	4.5	6.2	5.5	7.1	5.6	6.1	5.8
FIRENZA II (PPG-TF 244)	76	6.7	5.9	5.8	5.4	4.6	6.3	5.6	7.1	5.7	6.2	5.7
FALCON SUPREME (RH1)	72	6.5	5.8	5.8	5.5	4.7	6.4	5.7	7.2	5.8	6.3	5.7
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.7	5.8	5.8	5.4	4.6	6.3	5.6	7.1	5.7	6.2	5.7
SR 8700 (TMT1)	6	6.6	5.8	5.7	5.4	4.6	6.3	5.6	7.1	5.7	6.2	5.7
EXPANSE (PPG-TF 262)	67	6.7	5.8	5.7	5.4	4.5	6.2	5.5	7.1	5.6	6.2	5.7
CAPITAN (DLFPS-321/3705)	59	6.4	5.7	5.7	5.5	4.7	6.4	5.7	7.2	5.8	6.3	5.7
RDC	25	6.6	5.8	5.7	5.4	4.6	6.2	5.5	7.1	5.7	6.2	5.7
SOUTHSIDE (PPG-TF 267)	68	6.7	5.8	5.7	5.4	4.6	6.2	5.5	7.1	5.7	6.2	5.7
*HEMI	95	6.0	5.4	5.4	5.1	4.3	6.0	5.3	6.9	5.4	6.0	5.7

TABLE 1.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2019 DATA

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

JT 233	74	6.6	5.8	5.7	5.4	4.6	6.2	5.5	7.1	5.7	6.2	5.7
K18-NSE	32	6.9	5.8	5.7	5.3	4.5	6.1	5.4	7.0	5.5	6.1	5.7
DLFPS-321/3695	5	6.6	5.8	5.7	5.3	4.5	6.2	5.5	7.1	5.6	6.1	5.7
ZION (BAR TF 134)	63	6.7	5.8	5.7	5.3	4.5	6.2	5.5	7.0	5.6	6.1	5.7
5LSS	10	6.7	5.8	5.7	5.3	4.5	6.2	5.5	7.0	5.6	6.1	5.7
GEM (PPG-TF 316)	78	6.5	5.7	5.7	5.4	4.6	6.2	5.5	7.1	5.7	6.2	5.7
GALLARDO (DLFPS-TF/3550)	13	6.5	5.7	5.7	5.4	4.5	6.2	5.5	7.1	5.7	6.2	5.6
*DEGAS (LTP-TF-111)	30	6.4	5.7	5.6	5.4	4.6	6.2	5.5	7.1	5.7	6.2	5.6
K18-WB1	71	6.7	5.8	5.7	5.3	4.5	6.1	5.4	7.0	5.5	6.1	5.6
NT-3	8	6.4	5.6	5.6	5.3	4.5	6.2	5.5	7.1	5.7	6.2	5.6
DLFPS-TF/3553	15	6.4	5.7	5.6	5.3	4.5	6.2	5.5	7.1	5.6	6.2	5.6
DLFPS-321/3693	3	6.4	5.7	5.6	5.3	4.5	6.2	5.5	7.0	5.6	6.1	5.6
BLADERUNNER 3 (DLFPS-321/3701)	34	6.2	5.6	5.6	5.3	4.6	6.2	5.5	7.1	5.7	6.2	5.6
GALACTIC (SESCR1)	108	5.8	5.4	5.4	5.2	4.5	6.1	5.5	7.0	5.6	6.1	5.6
RS1	9	6.1	5.6	5.6	5.4	4.6	6.3	5.6	7.1	5.7	6.2	5.6
PPG-TF 249	66	6.3	5.6	5.6	5.3	4.5	6.2	5.5	7.0	5.6	6.1	5.6
RACEWAY (DLFPS-321/3696)	19	6.2	5.5	5.5	5.3	4.5	6.2	5.5	7.0	5.6	6.1	5.5
*PADRE 2	56	6.0	5.5	5.5	5.3	4.6	6.2	5.6	7.1	5.7	6.2	5.5
VALSETZ (PPG-TF 257)	80	6.3	5.6	5.5	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.5
*PARAMOUNT	2	6.3	5.5	5.5	5.2	4.4	6.1	5.4	7.0	5.5	6.0	5.5
SYMPHONY (PPG-TF 305)	77	5.8	5.4	5.4	5.3	4.5	6.2	5.5	7.1	5.7	6.2	5.4
DLFPS-321/3707	61	6.3	5.5	5.5	5.1	4.3	6.0	5.3	6.9	5.4	5.9	5.4
KIZZLE (K18-ROE)	31	6.0	5.4	5.4	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.4
*GLX ACED (PST-5DART)	50	6.1	5.4	5.4	5.2	4.4	6.1	5.4	6.9	5.5	6.0	5.4
DLFPS-321/3703	36	6.0	5.4	5.4	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.4
*GRANDE 3	21	5.7	5.3	5.4	5.3	4.5	6.2	5.5	7.1	5.7	6.2	5.4
*ESTRENA	122	5.7	5.1	5.2	5.0	4.2	5.9	5.2	6.8	5.4	5.9	5.4
DLFPS-321/3694	4	6.1	5.4	5.4	5.1	4.3	6.0	5.3	6.9	5.4	6.0	5.4
HOUNDOG NINE (DLFPS-321/3702)	35	5.7	5.3	5.3	5.2	4.5	6.2	5.5	7.0	5.6	6.1	5.4
*FIREHAWK SLT	94	5.6	5.1	5.2	5.0	4.3	6.0	5.3	6.8	5.4	5.9	5.4
TOUGH (NAI-TUE)	104	5.5	5.2	5.2	5.1	4.4	6.1	5.4	6.9	5.5	6.0	5.4
PST-5TRN	37	5.8	5.3	5.3	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.4
DLFPS-321/3708	62	5.7	5.3	5.3	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.3
ENDGAME (3N1)	53	5.6	5.2	5.3	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.3
DLFPS-321/3706	60	5.7	5.2	5.3	5.1	4.3	6.0	5.3	6.9	5.5	6.0	5.3
ORIOLE (PST-5BYOB)	43	5.4	5.1	5.2	5.2	4.4	6.1	5.4	7.0	5.6	6.1	5.3
EXTRAVAGANZA (PST-5MCMO)	39	5.5	5.1	5.2	5.1	4.4	6.1	5.4	6.9	5.5	6.1	5.3
3B2	112	5.4	5.1	5.2	5.1	4.3	6.0	5.3	6.9	5.5	6.0	5.2
GRO-PRO (SE53D2)	106	5.4	5.0	5.1	5.0	4.2	5.9	5.2	6.8	5.4	5.9	5.2
*PRO GOLD	40	5.3	5.1	5.1	5.1	4.4	6.0	5.3	6.9	5.5	6.0	5.2
*LIFEGUARD	44	5.1	5.0	5.1	5.1	4.4	6.1	5.4	7.0	5.6	6.1	5.2
BENTLEY (DLFPS-321/3679)	16	5.2	5.0	5.1	5.1	4.3	6.0	5.3	6.9	5.5	6.0	5.1
GLX REVIVE (PST-5GLBS)	49	5.0	4.9	5.0	5.1	4.4	6.0	5.4	6.9	5.5	6.1	5.1
TAR HEEL III (PST-5THM)	42	4.9	4.8	5.0	5.0	4.3	6.0	5.3	6.9	5.5	6.0	5.1
FAIRFIELD (SETF104)	109	5.1	4.9	5.1	5.0	4.3	6.0	5.3	6.9	5.5	6.0	5.0
*MONUMENT (PST-5SQB)	47	5.2	4.9	5.0	4.9	4.2	5.9	5.2	6.8	5.4	5.9	5.0
*MOONDANCE GLX	46	4.9	4.8	4.9	4.9	4.2	5.9	5.2	6.8	5.4	5.9	5.0
A-TF31	125	5.2	4.8	4.9	4.8	4.0	5.7	5.0	6.6	5.2	5.7	5.0
PST-5GQ	38	5.0	4.8	4.9	4.9	4.2	5.9	5.2	6.8	5.4	5.9	5.0

TABLE 1.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2019 DATA

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

*FAYETTE	22	4.8	4.7	4.9	4.9	4.2	5.9	5.2	6.8	5.4	5.9	5.0
HELLCAT GLR (PST-5E6)	41	4.6	4.7	4.8	5.0	4.3	6.0	5.3	6.9	5.5	6.0	4.9
*BRAVO 2	57	4.4	4.6	4.8	5.0	4.3	6.0	5.3	6.9	5.5	6.1	4.9
RAD-TF105	113	5.0	4.9	5.0	5.0	4.3	5.9	5.3	6.8	5.4	6.0	4.9
ATF1768	12	4.5	4.6	4.8	4.9	4.3	6.0	5.3	6.9	5.5	6.0	4.9
LBF	17	4.5	4.6	4.8	4.9	4.2	5.9	5.3	6.8	5.5	6.0	4.9
*COPIOUS TF	55	4.5	4.6	4.7	4.8	4.1	5.8	5.2	6.7	5.3	5.9	4.8
PST-5DZM	48	4.7	4.6	4.7	4.8	4.1	5.7	5.1	6.6	5.2	5.8	4.8
ATF2116	7	4.2	4.5	4.7	4.9	4.2	5.9	5.2	6.8	5.4	5.9	4.8
*BULLSEYE	93	4.9	4.7	4.8	4.8	4.1	5.8	5.1	6.7	5.3	5.8	4.8
TOPSHELF (BGR-TF3)	11	4.1	4.4	4.7	4.9	4.2	5.9	5.3	6.8	5.5	6.0	4.8
BAR-FA8230	64	4.2	4.4	4.6	4.8	4.2	5.9	5.2	6.8	5.4	5.9	4.8
*TANGO	52	4.4	4.5	4.7	4.8	4.1	5.8	5.1	6.7	5.3	5.8	4.8
LAFAYETTE (GO-AOMK)	101	4.8	4.6	4.8	4.7	4.0	5.7	5.0	6.6	5.2	5.7	4.7
SE5STAR	107	4.7	4.7	4.8	4.8	4.1	5.8	5.1	6.7	5.3	5.8	4.7
PST-5DC24	51	4.2	4.4	4.6	4.7	4.0	5.7	5.0	6.6	5.2	5.8	4.7
*AST8118LM	123	4.7	4.6	4.7	4.8	4.1	5.8	5.1	6.7	5.3	5.8	4.6
PST-5MINK	45	4.3	4.4	4.5	4.6	3.9	5.6	4.9	6.5	5.1	5.6	4.6
JT 517	23	3.8	4.2	4.5	4.8	4.1	5.8	5.1	6.7	5.4	5.9	4.6
*NATURALLY GREEN	1	3.9	4.2	4.5	4.7	4.1	5.8	5.1	6.7	5.3	5.8	4.6
*BIRMINGHAM	100	4.6	4.6	4.8	4.9	4.2	5.9	5.2	6.8	5.4	5.9	4.6
SETFM3	111	4.5	4.6	4.7	4.8	4.2	5.8	5.2	6.8	5.4	5.9	4.6
BARNOBLE (BAR 9FE MAS)	26	4.1	4.2	4.4	4.6	3.9	5.6	4.9	6.5	5.1	5.6	4.5
*BANDIT	54	3.7	4.1	4.4	4.6	4.0	5.7	5.0	6.6	5.2	5.8	4.5
NAL-FQZ-17	58	3.8	4.1	4.3	4.6	3.9	5.6	5.0	6.5	5.2	5.7	4.5
*AST8218LM	124	4.3	4.4	4.6	4.8	4.1	5.8	5.1	6.7	5.3	5.8	4.4
BAR FA 8228	27	3.0	3.7	4.1	4.5	3.9	5.6	5.0	6.6	5.2	5.7	4.3
RAD-TF131	114	3.8	4.1	4.3	4.6	3.9	5.6	4.9	6.5	5.1	5.7	3.9
*GRAND PRIX (FC15-01P)	131	3.6	4.0	4.3	4.6	3.9	5.6	5.0	6.5	5.2	5.7	3.8
SETFM2	110	3.5	4.0	4.3	4.6	4.0	5.7	5.0	6.6	5.2	5.8	3.8
*ESCALADE	127	3.5	3.9	4.2	4.5	3.9	5.6	4.9	6.5	5.1	5.7	3.7
RAD-TF 115 (TURBO SS)	97	3.1	3.7	4.0	4.4	3.8	5.5	4.8	6.4	5.0	5.6	3.4
*PALOMAR	126	3.0	3.7	4.0	4.5	3.9	5.6	4.9	6.5	5.1	5.6	3.4
*OG-WALK	128	2.8	3.5	3.9	4.3	3.7	5.4	4.8	6.4	5.0	5.5	3.2
*KENTUCKY-31	132	0.7	2.1	2.6	3.4	2.9	4.6	3.9	5.5	4.2	4.7	1.4
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		11.2	12.2	12.2	12.5	14.7	10.6	12.0	9.3	11.7	10.7	12.0

\* COMMERCIALY AVAILABLE IN THE USA IN 2020

\*\* 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](http://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 \*/  
2019 DATA

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

NAME	KY1	PA2	CT1	MS1	MI1	TN1	UT1	NE1	OK1	IA1	MEAN
TITANIUM G-LS (PPG-TF 255)	6.2	6.9	6.2	4.9	6.6	6.6	8.2	5.3	5.8	7.2	6.6
ROVER (PPG-TF 306)	6.2	6.9	6.1	4.9	6.6	6.6	8.2	5.2	5.7	7.1	6.6
TITAN MAX (TF456)	6.1	6.8	6.1	4.8	6.5	6.5	8.1	5.1	5.6	7.0	6.5
TITAN GLX (TF445)	6.1	6.8	6.1	4.8	6.5	6.5	8.1	5.1	5.6	7.0	6.5
TD2	6.2	6.9	6.1	4.9	6.6	6.6	8.1	5.2	5.7	7.0	6.5
SPYDER 2LS (ZRC1)	6.1	6.8	6.0	4.8	6.5	6.5	8.0	5.1	5.5	6.9	6.5
FALCON SUPREME (RH1)	6.1	6.9	6.1	4.8	6.6	6.6	8.1	5.2	5.7	7.1	6.5
CAPITAN (DLFPS-321/3705)	6.1	6.9	6.1	4.8	6.5	6.6	8.1	5.2	5.7	7.1	6.5
BATTLE HAWK (NAI-ROS4)	6.1	6.8	6.0	4.8	6.5	6.5	8.1	5.1	5.6	7.0	6.4
BONFIRE (JS DTT)	6.1	6.9	6.1	4.8	6.5	6.5	8.1	5.1	5.6	7.0	6.4
DAYBREAK (AH2)	6.2	6.9	6.1	4.8	6.5	6.5	8.1	5.1	5.5	6.9	6.4
FIRECRACKER G-LS (PPG-TF 315)	6.1	6.8	6.0	4.7	6.4	6.4	8.0	5.1	5.6	7.0	6.4
TANK (PPG-TF 338)	6.1	6.8	6.0	4.7	6.4	6.4	8.0	5.1	5.5	6.9	6.4
FASTLANE (BY-TF-169)	6.1	6.8	6.0	4.8	6.5	6.5	8.1	5.1	5.6	7.0	6.4
RS1	6.1	6.8	6.0	4.8	6.5	6.5	8.1	5.1	5.6	7.1	6.4
ROWDIER (DLFPS-321/3699)	6.1	6.8	6.0	4.8	6.5	6.5	8.0	5.1	5.6	7.0	6.4
PROVIDENCE (GO-RH20)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.1	5.6	7.0	6.4
PADRE 2	6.0	6.8	6.0	4.7	6.5	6.5	8.1	5.1	5.6	7.1	6.4
GRANDE 3	6.0	6.7	6.0	4.7	6.5	6.5	8.1	5.1	5.6	7.1	6.4
RHF	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.4
FINELAWN SUPREME (RH3)	6.1	6.8	6.0	4.7	6.4	6.5	8.0	5.1	5.6	7.0	6.4
SYMPHONY (PPG-TF 305)	6.0	6.7	6.0	4.7	6.5	6.5	8.1	5.1	5.6	7.1	6.4
SERENADE (PPG-TF 320)	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.4
RHL2	6.0	6.7	5.9	4.7	6.4	6.4	7.9	5.0	5.5	6.9	6.4
FIERCE (K18-RS6)	6.1	6.8	6.0	4.7	6.4	6.4	8.0	5.0	5.5	6.8	6.4
TRIAD (PPG-TF 323)	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
NAI-ST5	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.1	5.6	7.0	6.3
RAPTOR LS (PPG-TF 336)	6.0	6.7	5.9	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.3
BULLSEYE LTZ	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	7.0	6.3
BLADERUNNER 3 (DLFPS-321/3701)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.1	5.6	7.0	6.3
FIRENZA II (PPG-TF 244)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
AVENGER III (PPG-TF 308)	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.4	6.8	6.3
ESSENTIAL 2 (DLFPS-TF/3552)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
TEACHER (PPG-TF 313)	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.3
PPG-TF 312	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.4	6.8	6.3
SR 8700 (TMT1)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
HOUND OG NINE (DLFPS-321/3702)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.1	5.6	7.0	6.3
GALACTIC (SESCR1)	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.6	7.0	6.3
PPG-TF 337	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.3
DYNAMITE G-LS (PPG-TF 254)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
DEGAS (LTP-TF-111)	6.0	6.7	6.0	4.7	6.4	6.4	8.0	5.0	5.5	7.0	6.3
NT-3	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	7.0	6.3
BRAVO 2	5.9	6.6	5.9	4.7	6.4	6.4	8.0	5.1	5.7	7.2	6.3
TALLADEGA II (NAI-3N2)	5.9	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.3
GEM (PPG-TF 316)	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
ORIOLE (PST-5BYOB)	5.9	6.7	5.9	4.7	6.4	6.4	8.0	5.1	5.6	7.1	6.3
RDC	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3



TABLE 2.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2019 DATA

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

JT 233	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
GALLARDO (DLFPS-TF/3550)	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
PPG-TF 318	5.9	6.6	5.9	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.3
SOUTHSIDE (PPG-TF 267)	6.0	6.7	5.9	4.7	6.4	6.4	8.0	5.0	5.5	6.9	6.3
LIFEGUARD	5.9	6.6	5.9	4.7	6.4	6.4	8.0	5.1	5.6	7.1	6.3
RACEWAY (DLFPS-321/3696)	6.0	6.7	5.9	4.6	6.4	6.4	8.0	5.0	5.5	6.9	6.3
DLFPS-TF/3553	6.0	6.7	5.9	4.6	6.4	6.4	7.9	5.0	5.5	6.9	6.3
GLX REVIVE (PST-5GLBS)	5.9	6.6	5.9	4.6	6.4	6.4	8.0	5.1	5.6	7.1	6.3
RC4	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.4	6.8	6.3
ENDGAME (3N1)	5.9	6.6	5.9	4.6	6.4	6.4	8.0	5.0	5.5	7.0	6.3
PPG-TF 249	5.9	6.7	5.9	4.6	6.3	6.4	7.9	5.0	5.5	6.9	6.3
EXPANSE (PPG-TF 262)	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.4	6.9	6.2
DLFPS-321/3695	6.0	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
DRAGSTER	5.9	6.6	5.8	4.6	6.3	6.3	7.8	4.9	5.4	6.8	6.2
DLFPS-321/3693	5.9	6.7	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
HELLCAT GLR (PST-5E6)	5.9	6.6	5.9	4.6	6.4	6.4	8.0	5.0	5.6	7.1	6.2
TOUGH (NAI-TUE)	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
DLFPS-321/3708	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	7.0	6.2
TOPSHELF (BGR-TF3)	5.8	6.6	5.9	4.6	6.4	6.4	8.0	5.1	5.6	7.1	6.2
EXTRAVAGANZA (PST-5MCMO)	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	7.0	6.2
CLASH (AH1)	5.9	6.6	5.9	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.2
PST-5TRN	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
BENTLEY (DLFPS-321/3679)	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	7.0	6.2
ATF1768	5.8	6.6	5.9	4.6	6.3	6.4	8.0	5.0	5.6	7.1	6.2
XANADU (JT 268)	6.0	6.7	5.9	4.6	6.3	6.3	7.9	4.9	5.4	6.7	6.2
DLFPS-321/3703	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
PRO GOLD	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	7.0	6.2
TAR HEEL III (PST-5THM)	5.9	6.6	5.9	4.6	6.3	6.3	7.9	5.0	5.5	7.0	6.2
3B2	5.9	6.6	5.8	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
5LSS	5.9	6.6	5.9	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.2
FAIRFIELD (SETF104)	5.8	6.6	5.8	4.6	6.3	6.3	7.9	5.0	5.5	7.0	6.2
LBF	5.8	6.6	5.8	4.6	6.3	6.3	7.9	5.0	5.6	7.1	6.2
KIZZLE (K18-ROE)	5.9	6.6	5.8	4.6	6.3	6.3	7.9	5.0	5.5	6.9	6.2
ATF2116	5.8	6.5	5.8	4.6	6.3	6.3	8.0	5.0	5.6	7.1	6.2
STEALTH (PPG-TF 238)	5.9	6.6	5.8	4.6	6.3	6.3	7.8	4.9	5.3	6.7	6.2
TYCOON (COL-TF-148)	5.9	6.6	5.8	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.2
VALSETZ (PPG-TF 257)	5.9	6.6	5.8	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.2
ZION (BAR TF 134)	5.9	6.6	5.8	4.6	6.3	6.3	7.9	4.9	5.4	6.8	6.2
BAR-FA8230	5.8	6.5	5.8	4.6	6.3	6.3	7.9	5.0	5.6	7.1	6.2
RAPTOR III	5.8	6.5	5.8	4.5	6.2	6.2	7.8	4.9	5.3	6.8	6.2
GLX ACED (PST-5DART)	5.9	6.6	5.8	4.5	6.3	6.3	7.9	4.9	5.4	6.8	6.2
PARAMOUNT	5.9	6.6	5.8	4.5	6.3	6.3	7.8	4.9	5.4	6.8	6.2
RAD-TF105	5.8	6.5	5.8	4.5	6.3	6.3	7.9	4.9	5.5	6.9	6.2
FAYETTE	5.8	6.5	5.8	4.5	6.3	6.3	7.9	5.0	5.5	7.0	6.2
PPG-TF 231	5.8	6.5	5.7	4.5	6.2	6.2	7.7	4.8	5.3	6.7	6.2
K18-WB1	5.9	6.6	5.8	4.5	6.2	6.2	7.8	4.9	5.3	6.7	6.1
OKEEFE (LTP-TF-122)	5.9	6.6	5.8	4.5	6.2	6.2	7.8	4.8	5.3	6.7	6.1
JT 517	5.7	6.5	5.8	4.5	6.3	6.3	7.9	5.0	5.5	7.1	6.1
DLFPS-321/3706	5.8	6.5	5.8	4.5	6.2	6.2	7.8	4.9	5.4	6.8	6.1
HEMI	5.8	6.5	5.7	4.5	6.2	6.2	7.8	4.8	5.3	6.8	6.1

TABLE 2.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2019 DATA

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

K18-NSE	5.9	6.6	5.8	4.5	6.2	6.2	7.8	4.8	5.3	6.7	6.1
MOONDANCE GLX	5.8	6.5	5.8	4.5	6.3	6.3	7.9	4.9	5.5	6.9	6.1
FIREHAWK SLT	5.8	6.5	5.7	4.5	6.2	6.2	7.8	4.9	5.4	6.8	6.1
SETFM3	5.7	6.5	5.7	4.5	6.2	6.2	7.8	4.9	5.4	6.9	6.1
BIRMINGHAM	5.7	6.5	5.7	4.5	6.2	6.2	7.8	4.9	5.4	6.9	6.1
DLFPS-321/3694	5.8	6.5	5.7	4.5	6.2	6.2	7.8	4.8	5.3	6.7	6.1
GRO-PRO (SE53D2)	5.7	6.4	5.7	4.4	6.2	6.2	7.8	4.8	5.3	6.8	6.1
PST-5GQ	5.7	6.4	5.7	4.5	6.2	6.2	7.8	4.9	5.4	6.9	6.1
COPIOUS TF	5.7	6.4	5.7	4.5	6.2	6.2	7.8	4.9	5.4	6.9	6.1
NATURALLY GREEN	5.7	6.4	5.7	4.4	6.2	6.2	7.8	4.9	5.5	7.0	6.1
MONUMENT (PST-5SQB)	5.7	6.4	5.7	4.4	6.2	6.2	7.8	4.8	5.4	6.8	6.1
TANGO	5.7	6.4	5.7	4.4	6.2	6.2	7.8	4.9	5.4	6.9	6.1
ESTRENA	5.7	6.4	5.7	4.4	6.1	6.1	7.7	4.8	5.3	6.7	6.1
DLFPS-321/3707	5.8	6.5	5.7	4.4	6.1	6.2	7.7	4.8	5.3	6.7	6.1
SE5STAR	5.7	6.4	5.7	4.4	6.2	6.2	7.8	4.8	5.4	6.8	6.0
BANDIT	5.6	6.4	5.7	4.4	6.2	6.2	7.8	4.9	5.4	7.0	6.0
AST8218LM	5.7	6.4	5.7	4.4	6.2	6.2	7.8	4.9	5.4	6.9	6.0
BAR FA 8228	5.6	6.3	5.7	4.4	6.2	6.2	7.8	4.9	5.5	7.0	6.0
BULLSEYE	5.6	6.4	5.6	4.4	6.1	6.1	7.7	4.8	5.3	6.8	6.0
SETFM2	5.6	6.4	5.7	4.4	6.2	6.2	7.8	4.9	5.5	7.0	6.0
AST8118LM	5.6	6.4	5.6	4.4	6.1	6.1	7.7	4.8	5.3	6.8	6.0
PST-5DC24	5.6	6.3	5.6	4.4	6.1	6.1	7.7	4.8	5.3	6.8	6.0
PST-5DZM	5.6	6.3	5.6	4.3	6.1	6.1	7.7	4.8	5.3	6.8	6.0
NAI-FQZ-17	5.5	6.3	5.6	4.3	6.1	6.1	7.7	4.8	5.3	6.8	5.9
GRAND PRIX (FC15-01P)	5.6	6.3	5.6	4.3	6.1	6.1	7.7	4.8	5.4	6.9	5.9
LAFAYETTE (GO-AOMK)	5.6	6.3	5.6	4.3	6.0	6.0	7.6	4.7	5.2	6.7	5.9
ESCALADE	5.5	6.3	5.6	4.3	6.1	6.1	7.7	4.8	5.3	6.9	5.9
PALOMAR	5.5	6.3	5.6	4.3	6.1	6.1	7.7	4.8	5.4	7.0	5.9
A-TF31	5.5	6.3	5.5	4.2	6.0	6.0	7.6	4.6	5.2	6.6	5.9
RAD-TF131	5.5	6.3	5.6	4.3	6.1	6.1	7.7	4.7	5.3	6.8	5.9
BARNOBLE (BAR 9FE MAS)	5.5	6.2	5.5	4.2	6.0	6.0	7.6	4.7	5.2	6.7	5.9
PST-5MINK	5.5	6.2	5.5	4.2	6.0	6.0	7.6	4.7	5.2	6.7	5.9
RAD-TF 115 (TURBO SS)	5.4	6.2	5.5	4.2	6.0	6.0	7.6	4.7	5.3	6.8	5.8
OG-WALK	5.4	6.1	5.5	4.2	6.0	6.0	7.6	4.7	5.3	6.8	5.8
KENTUCKY-31	4.6	5.4	4.8	3.5	5.3	5.3	7.0	4.1	4.7	6.3	5.0
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	11.0	9.8	11.0	14.1	10.2	10.2	8.2	13.0	11.8	9.3	10.4

\* 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](http://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 3. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2019 DATA

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

NAME	CA7	IN1	MEAN
BRAVO 2	5.3	6.5	5.9
TOPSHELF (BGR-TF3)	5.2	6.5	5.9
TITANIUM G-LS (PPG-TF 255)	5.2	6.4	5.8
JT 517	5.2	6.4	5.8
ATF2116	5.2	6.4	5.8
HELLCAT GLR (PST-5E6)	5.2	6.4	5.8
BAR-FA8230	5.2	6.4	5.8
BAR FA 8228	5.1	6.4	5.8
ATF1768	5.1	6.4	5.8
LBF	5.1	6.4	5.8
GLX REVIVE (PST-5GLBS)	5.1	6.4	5.8
GRANDE 3	5.2	6.4	5.8
CAPITAN (DLFPS-321/3705)	5.2	6.3	5.8
LIFEGUARD	5.1	6.4	5.8
SETFM2	5.1	6.4	5.7
FALCON SUPREME (RH1)	5.2	6.3	5.7
SYMPHONY (PPG-TF 305)	5.1	6.3	5.7
PADRE 2	5.1	6.3	5.7
ROVER (PPG-TF 306)	5.2	6.3	5.7
ORIOLE (PST-5BYOB)	5.1	6.3	5.7
RS1	5.1	6.3	5.7
PALOMAR	5.1	6.4	5.7
HOUNDOG NINE (DLFPS-321/3702)	5.1	6.3	5.7
TAR HEEL III (PST-5THM)	5.1	6.3	5.7
NATURALLY GREEN	5.1	6.3	5.7
BANDIT	5.0	6.3	5.7
BENTLEY (DLFPS-321/3679)	5.1	6.3	5.7
FAYETTE	5.0	6.3	5.7
FAIRFIELD (SETF104)	5.1	6.3	5.7
TITAN GLX (TF445)	5.1	6.2	5.6
ENDGAME (3N1)	5.0	6.2	5.6
FASTLANE (BY-TF-169)	5.1	6.2	5.6
GALACTIC (SESCR1)	5.0	6.2	5.6
PRO GOLD	5.0	6.2	5.6
SETFM3	5.0	6.3	5.6
TITAN MAX (TF456)	5.1	6.2	5.6
BATTLE HAWK (NAI-ROS4)	5.1	6.2	5.6
TD2	5.1	6.2	5.6
BLADERUNNER 3 (DLFPS-321/3701)	5.0	6.2	5.6
GRAND PRIX (FC15-01P)	5.0	6.3	5.6
EXTRAVAGANZA (PST-5MCMO)	5.0	6.2	5.6
BIRMINGHAM	5.0	6.2	5.6
TANGO	5.0	6.2	5.6
RAD-TF105	5.0	6.2	5.6
NAI-ST5	5.0	6.2	5.6
ESCALADE	5.0	6.3	5.6
MOONDANCE GLX	5.0	6.2	5.6

TABLE 3. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2019 DATA

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

COPIOUS TF	5.0	6.2	5.6
3B2	5.0	6.2	5.6
BONFIRE (JS DTT)	5.0	6.2	5.6
PROVIDENCE (GO-RH20)	5.0	6.2	5.6
TOUGH (NAI-TUE)	5.0	6.2	5.6
AST8218LM	5.0	6.2	5.6
OG-WALK	4.9	6.3	5.6
DLFPS-321/3708	5.0	6.2	5.6
RAD-TF 115 (TURBO SS)	4.9	6.2	5.6
FINELAWN SUPREME (RH3)	5.0	6.2	5.6
BULLSEYE LTZ	5.0	6.2	5.6
ROWDIER (DLFPS-321/3699)	5.0	6.1	5.6
PST-5TRN	5.0	6.2	5.6
NT-3	5.0	6.2	5.6
RACEWAY (DLFPS-321/3696)	5.0	6.2	5.6
DEGAS (LTP-TF-111)	5.0	6.2	5.6
FIRECRACKER G-LS (PPG-TF 315)	5.0	6.1	5.6
NAI-FQZ-17	4.9	6.2	5.6
TRIAD (PPG-TF 323)	5.0	6.1	5.6
SR 8700 (TMT1)	5.0	6.1	5.6
PST-5DC24	4.9	6.2	5.6
RAD-TF131	4.9	6.2	5.5
FIRENZA II (PPG-TF 244)	5.0	6.1	5.5
GEM (PPG-TF 316)	5.0	6.1	5.5
ESSENTIAL 2 (DLFPS-TF/3552)	5.0	6.1	5.5
PST-5GQ	4.9	6.1	5.5
DLFPS-321/3703	5.0	6.1	5.5
GALLARDO (DLFPS-TF/3550)	5.0	6.1	5.5
DLFPS-TF/3553	5.0	6.1	5.5
SE5STAR	4.9	6.1	5.5
TANK (PPG-TF 338)	5.0	6.1	5.5
PPG-TF 249	4.9	6.1	5.5
KIZZLE (K18-ROE)	4.9	6.1	5.5
JT 233	4.9	6.1	5.5
TALLADEGA II (NAI-3N2)	4.9	6.1	5.5
SERENADE (PPG-TF 320)	4.9	6.1	5.5
RDC	4.9	6.1	5.5
DYNAMITE G-LS (PPG-TF 254)	4.9	6.1	5.5
SOUTHSIDE (PPG-TF 267)	4.9	6.1	5.5
SPYDER 2LS (ZRC1)	4.9	6.1	5.5
DLFPS-321/3693	4.9	6.1	5.5
MONUMENT (PST-5SQB)	4.9	6.1	5.5
AST8118LM	4.9	6.1	5.5
DLFPS-321/3706	4.9	6.1	5.5
PPG-TF 337	4.9	6.0	5.5
GLX ACED (PST-5DART)	4.9	6.1	5.5
FIREHAWK SLT	4.9	6.1	5.5
BULLSEYE	4.9	6.1	5.5
DLFPS-321/3695	4.9	6.0	5.5
TEACHER (PPG-TF 313)	4.9	6.0	5.5

TABLE 3. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
VALSETZ (PPG-TF 257)	4.9	6.0	5.5
RHF	4.9	6.0	5.5
EXPANSE (PPG-TF 262)	4.9	6.0	5.5
PST-5DZM	4.8	6.1	5.4
RHL2	4.9	6.0	5.4
GRO-PRO (SE53D2)	4.9	6.0	5.4
BARNOBLE (BAR 9FE MAS)	4.8	6.1	5.4
AVENGER III (PPG-TF 308)	4.9	6.0	5.4
RC4	4.9	6.0	5.4
PPG-TF 312	4.9	6.0	5.4
DAYBREAK (AH2)	4.9	6.0	5.4
PARAMOUNT	4.9	6.0	5.4
5LSS	4.9	6.0	5.4
PST-5MINK	4.8	6.0	5.4
CLASH (AH1)	4.8	6.0	5.4
RAPTOR III	4.8	6.0	5.4
HEMI	4.8	6.0	5.4
FIERCE (K18-RS6)	4.8	5.9	5.4
ZION (BAR TF 134)	4.8	5.9	5.4
DRAGSTER	4.8	5.9	5.4
ESTRENA	4.8	6.0	5.4
LAFAYETTE (GO-AOMK)	4.8	6.0	5.4
DLFPS-321/3694	4.8	5.9	5.4
RAPTOR LS (PPG-TF 336)	4.8	5.9	5.4
K18-WB1	4.8	5.9	5.3
PPG-TF 318	4.8	5.9	5.3
TYCOON (COL-TF-148)	4.8	5.9	5.3
DLFPS-321/3707	4.7	5.9	5.3
K18-NSE	4.7	5.9	5.3
STEALTH (PPG-TF 238)	4.7	5.8	5.3
XANADU (JT 268)	4.7	5.8	5.3
PPG-TF 231	4.7	5.8	5.3
A-TF31	4.7	5.9	5.3
OKEEFE (LTP-TF-122)	4.7	5.8	5.2
KENTUCKY-31	4.4	5.8	5.1
LSD VALUE	1.0	1.0	1.0
C.V. (%)	13.0	10.5	11.6

\* 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](http://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 4.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2020 DATA

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

NAME	ENTRY #	CT1	VA1	TN1	KY1	MI1	IA1	NE1	OR1	ON1	MEAN
SOUTHSIDE (PPG-TF 267)	68	6.6	6.5	7.0	6.7	7.0	7.1	7.3	4.7	6.8	6.9
FASTLANE (BY-TF-169)	33	6.5	6.4	6.9	6.6	7.0	7.1	7.2	4.6	6.7	6.8
TD2	18	6.5	6.4	6.9	6.6	7.0	6.9	7.2	4.6	6.7	6.8
EXPANSE (PPG-TF 262)	67	6.5	6.4	6.9	6.6	7.0	6.9	7.2	4.6	6.6	6.8
CAPITAN (DLFPS-321/3705)	59	6.5	6.4	6.8	6.6	7.0	7.0	7.2	4.5	6.6	6.8
K18-NSE	32	6.5	6.4	6.9	6.6	6.9	6.9	7.2	4.6	6.7	6.8
BLADERUNNER 3 (DLFPS-321/3701)	34	6.5	6.3	6.9	6.5	6.9	7.0	7.1	4.5	6.7	6.8
DAYBREAK (AH2)	69	6.5	6.4	6.8	6.5	7.0	6.9	7.2	4.5	6.5	6.7
DLFPS-321/3707	61	6.5	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
* STEALTH (PPG-TF 238)	81	6.5	6.4	6.8	6.6	6.9	6.9	7.1	4.5	6.6	6.7
FINELAWN SUPREME (RH3)	73	6.5	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
* XANADU (JT 268)	75	6.5	6.4	6.8	6.6	6.9	6.8	7.1	4.5	6.6	6.7
RACEWAY (DLFPS-321/3696)	19	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
ENDGAME (3N1)	53	6.4	6.2	6.9	6.4	6.9	7.1	7.1	4.5	6.7	6.7
DLFPS-321/3708	62	6.4	6.3	6.9	6.5	6.9	7.0	7.1	4.5	6.6	6.7
DLFPS-TF/3553	15	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
* DYNAMITE G-LS (PPG-TF 254)	82	6.4	6.3	6.8	6.5	6.9	7.0	7.1	4.5	6.6	6.7
* ZION (BAR TF 134)	63	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.5	6.7
FALCON SUPREME (RH1)	72	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.5	6.7
CLASH (AH1)	65	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.5	6.7
GALLARDO (DLFPS-TF/3550)	13	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
HOUNDG NINE (DLFPS-321/3702)	35	6.4	6.3	6.8	6.5	6.9	7.0	7.1	4.5	6.6	6.7
SR 8700 (TMT1)	6	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
* SYMPHONY (PPG-TF 305)	77	6.4	6.3	6.8	6.5	6.9	7.0	7.1	4.4	6.6	6.7
* OKEEFE (LTP-TF-122)	29	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
GEM (PPG-TF 316)	78	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.4	6.5	6.7
* PARAMOUNT	2	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
JT 233	74	6.4	6.3	6.8	6.4	6.9	7.0	7.0	4.4	6.6	6.7
5LSS	10	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
RS1	9	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
RDC	25	6.4	6.3	6.8	6.5	6.9	6.8	7.1	4.5	6.6	6.7
PPG-TF 249	66	6.4	6.3	6.8	6.4	6.9	7.0	7.0	4.4	6.6	6.7
ROWDIER (DLFPS-321/3699)	20	6.4	6.3	6.8	6.4	6.9	6.9	7.1	4.4	6.5	6.7
K18-WB1	71	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.7
DLFPS-321/3703	36	6.4	6.2	6.8	6.4	6.8	7.0	7.0	4.5	6.6	6.7
FIERCE (K18-RS6)	70	6.4	6.3	6.7	6.5	6.9	6.7	7.1	4.4	6.4	6.7
* PADRE 2	56	6.4	6.2	6.8	6.4	6.8	7.0	7.0	4.4	6.6	6.7
TYCOON (COL-TF-148)	28	6.4	6.3	6.7	6.4	6.8	6.8	7.0	4.4	6.5	6.7
DLFPS-321/3695	5	6.4	6.2	6.8	6.4	6.8	6.9	7.0	4.4	6.5	6.6
RC4	79	6.4	6.3	6.7	6.5	6.8	6.8	7.0	4.4	6.5	6.6
* DEGAS (LTP-TF-111)	30	6.4	6.3	6.7	6.4	6.8	6.8	7.0	4.4	6.5	6.6
DLFPS-321/3706	60	6.3	6.2	6.8	6.4	6.8	6.9	7.0	4.4	6.5	6.6
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.4	6.3	6.7	6.4	6.8	6.8	7.0	4.4	6.5	6.6
NT-3	8	6.3	6.2	6.7	6.4	6.8	6.9	7.0	4.4	6.5	6.6
* BONFIRE (JS DTT)	24	6.3	6.3	6.7	6.4	6.8	6.8	7.0	4.3	6.4	6.6
* FIRENZA II (PPG-TF 244)	76	6.3	6.3	6.7	6.4	6.8	6.8	7.0	4.4	6.4	6.6
VALSETZ (PPG-TF 257)	80	6.3	6.2	6.7	6.4	6.8	6.8	7.0	4.4	6.5	6.6
DLFPS-321/3693	3	6.3	6.2	6.7	6.4	6.8	6.8	7.0	4.4	6.5	6.6
DLFPS-321/3694	4	6.3	6.2	6.7	6.4	6.8	6.9	7.0	4.4	6.5	6.6

TABLE 4.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2020 DATA

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

NAME	ENTRY #	CT1	VA1	TN1	KY1	MI1	IA1	NE1	OR1	ON1	MEAN
* FAYETTE	22	6.3	6.1	6.8	6.3	6.7	7.0	6.9	4.4	6.6	6.6
BENTLEY (DLFPS-321/3679)	16	6.3	6.1	6.7	6.3	6.7	6.9	6.9	4.3	6.5	6.6
NAI-FQZ-17	58	6.2	6.0	6.8	6.2	6.7	7.2	6.8	4.3	6.6	6.6
* GRANDE 3	21	6.2	6.1	6.7	6.3	6.7	6.9	6.9	4.3	6.4	6.6
* KIZZLE (K18-ROE)	31	6.2	6.1	6.7	6.3	6.7	6.9	6.9	4.3	6.4	6.5
* LIFEGUARD	44	6.2	6.1	6.7	6.2	6.7	7.0	6.9	4.3	6.4	6.5
GLX REVIVE (PST-5GLBS)	49	6.2	6.1	6.7	6.2	6.7	7.0	6.9	4.2	6.4	6.5
PST-5GQ	38	6.2	6.1	6.7	6.2	6.7	7.0	6.8	4.2	6.4	6.5
* GLX ACED (PST-5DART)	50	6.2	6.1	6.6	6.2	6.7	6.8	6.9	4.2	6.4	6.5
JT 517	23	6.2	6.0	6.7	6.1	6.7	7.1	6.8	4.2	6.5	6.5
PST-5TRN	37	6.2	6.1	6.6	6.2	6.7	6.9	6.8	4.2	6.4	6.5
* TITANIUM G-LS (PPG-TF 255)	84	6.6	6.5	6.9	6.6	7.0	7.1	7.2	4.6	6.7	6.5
* SPYDER 2LS (ZRC1)	89	6.5	6.4	6.9	6.6	7.0	6.9	7.2	4.6	6.6	6.5
BAR-FA8230	64	6.1	6.0	6.7	6.1	6.6	7.2	6.7	4.2	6.5	6.5
* TANGO	52	6.2	6.0	6.7	6.1	6.6	7.0	6.8	4.2	6.5	6.5
EXTRAVAGANZA (PST-5MCMO)	39	6.2	6.1	6.6	6.2	6.7	6.9	6.8	4.2	6.3	6.5
LBF	17	6.1	5.9	6.7	6.1	6.6	7.1	6.7	4.2	6.4	6.5
TRIAD (PPG-TF 323)	120	6.5	6.4	6.9	6.6	7.0	7.0	7.2	4.5	6.6	6.5
* BRAVO 2	57	6.1	5.9	6.7	6.1	6.6	7.0	6.7	4.2	6.4	6.5
ORIOLE (PST-5BYOB)	43	6.1	6.0	6.6	6.1	6.6	6.9	6.8	4.2	6.3	6.4
ATF1768	12	6.1	6.0	6.6	6.1	6.6	7.0	6.7	4.1	6.4	6.4
* PRO GOLD	40	6.1	6.0	6.6	6.1	6.6	6.9	6.8	4.2	6.4	6.4
* BANDIT	54	6.1	5.9	6.7	6.0	6.6	7.1	6.7	4.1	6.5	6.4
* MOONDANCE GLX	46	6.1	6.0	6.6	6.1	6.6	6.9	6.7	4.1	6.3	6.4
PST-5DC24	51	6.1	5.9	6.6	6.1	6.6	7.0	6.7	4.1	6.4	6.4
TANK (PPG-TF 338)	121	6.5	6.4	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.4
* SERENADE (PPG-TF 320)	119	6.5	6.4	6.9	6.5	6.9	7.0	7.1	4.5	6.6	6.4
TEACHER (PPG-TF 313)	118	6.5	6.3	6.8	6.6	6.9	6.8	7.2	4.6	6.6	6.4
* BULLSEYE LTZ	96	6.5	6.3	6.9	6.6	6.9	7.0	7.1	4.6	6.7	6.4
TITAN MAX (TF456)	130	6.5	6.4	6.9	6.5	6.9	7.0	7.1	4.5	6.6	6.4
PROVIDENCE (GO-RH20)	99	6.5	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.4
TAR HEEL III (PST-5THM)	42	6.1	5.9	6.6	6.0	6.6	6.9	6.7	4.1	6.3	6.4
TOPSHELF (BGR-TF3)	11	6.0	5.9	6.6	6.0	6.5	7.0	6.7	4.1	6.4	6.4
* COPIOUS TF	55	6.0	5.9	6.6	6.0	6.5	7.0	6.7	4.1	6.4	6.4
* RAPTOR LS (PPG-TF 336)	87	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.4
ROVER (PPG-TF 306)	91	6.4	6.3	6.8	6.5	6.9	6.9	7.1	4.5	6.6	6.4
ATF2116	7	6.0	5.9	6.6	6.0	6.5	6.9	6.7	4.1	6.3	6.4
HELLCAT GLR (PST-5E6)	41	6.1	6.0	6.5	6.0	6.6	6.8	6.7	4.0	6.2	6.4
PST-5MINK	45	6.0	5.8	6.6	6.0	6.5	7.0	6.6	4.1	6.3	6.4
TITAN GLX (TF445)	129	6.4	6.3	6.8	6.4	6.9	6.9	7.1	4.4	6.5	6.4
PST-5DZM	48	6.0	5.9	6.5	6.0	6.5	6.8	6.7	4.1	6.3	6.4
* NATURALLY GREEN	1	6.0	5.8	6.6	5.9	6.5	7.0	6.6	4.0	6.3	6.3
* RAPTOR III	116	6.4	6.3	6.8	6.4	6.9	7.0	7.1	4.5	6.6	6.3
PPG-TF 231	90	6.4	6.2	6.9	6.5	6.9	7.0	7.1	4.5	6.7	6.3
* FIRECRACKER G-LS (PPG-TF 315)	86	6.4	6.3	6.8	6.4	6.8	6.8	7.0	4.4	6.5	6.3
3B2	112	6.4	6.2	6.9	6.4	6.9	7.1	7.0	4.5	6.6	6.3
* AVENGER III (PPG-TF 308)	83	6.4	6.3	6.7	6.4	6.8	6.9	7.0	4.4	6.5	6.3
BATTLE HAWK (NAI-ROS4)	103	6.4	6.2	6.8	6.4	6.8	6.9	7.0	4.4	6.5	6.3

TABLE 4.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2020 DATA

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

NAME	ENTRY #	CT1	VA1	TN1	KY1	MI1	IA1	NE1	OR1	ON1	MEAN
* MONUMENT (PST-5SQB)	47	6.0	5.9	6.5	6.0	6.5	6.7	6.6	4.0	6.2	6.3
RHF	117	6.3	6.2	6.7	6.4	6.8	6.8	7.0	4.4	6.5	6.3
GALACTIC (SESCR1)	108	6.3	6.2	6.8	6.4	6.8	7.0	7.0	4.4	6.5	6.3
* FIREHAWK SLT	94	6.4	6.2	6.8	6.4	6.8	7.1	7.0	4.4	6.6	6.3
NAI-ST5	105	6.3	6.2	6.7	6.3	6.8	6.9	7.0	4.3	6.4	6.3
TALLADEGA II (NAI-3N2)	102	6.3	6.2	6.8	6.4	6.8	6.9	7.0	4.4	6.6	6.3
PPG-TF 318	92	6.3	6.2	6.7	6.4	6.8	6.8	7.0	4.3	6.5	6.2
RHL2	115	6.3	6.2	6.7	6.4	6.7	6.7	6.9	4.3	6.4	6.2
PPG-TF 312	85	6.3	6.1	6.7	6.4	6.7	6.8	7.0	4.4	6.5	6.2
* DRAGSTER	98	6.3	6.2	6.7	6.3	6.7	6.8	6.9	4.3	6.4	6.2
PPG-TF 337	88	6.3	6.2	6.6	6.3	6.7	6.7	6.9	4.3	6.3	6.2
BAR FA 8228	27	5.8	5.6	6.5	5.7	6.3	7.0	6.4	3.9	6.2	6.2
BARNOBLE (BAR 9FE MAS)	26	5.8	5.7	6.4	5.8	6.4	6.9	6.4	3.9	6.1	6.2
* ESTRENA	122	6.3	6.1	6.8	6.4	6.7	7.0	6.9	4.4	6.6	6.2
* HEMI	95	6.3	6.1	6.7	6.3	6.7	7.0	6.9	4.3	6.5	6.2
TOUGH (NAI-TUE)	104	6.2	6.1	6.7	6.2	6.7	6.9	6.9	4.2	6.4	6.2
RAD-TF105	113	6.2	6.0	6.7	6.2	6.6	6.9	6.8	4.2	6.4	6.1
SETFM3	111	6.2	6.0	6.7	6.1	6.7	7.0	6.8	4.2	6.4	6.1
FAIRFIELD (SETF104)	109	6.1	6.0	6.6	6.1	6.6	6.8	6.8	4.2	6.3	6.0
* AST8218LM	124	6.1	5.9	6.7	6.1	6.6	7.1	6.7	4.2	6.4	6.0
* BIRMINGHAM	100	6.1	5.9	6.7	6.1	6.6	7.0	6.7	4.2	6.4	6.0
GRO-PRO (SE53D2)	106	6.1	5.9	6.6	6.0	6.6	6.9	6.7	4.1	6.3	6.0
LAFAYETTE (GO-AOMK)	101	6.1	5.9	6.6	6.1	6.6	6.9	6.7	4.1	6.4	6.0
* BULLSEYE	93	6.1	5.9	6.6	6.0	6.6	6.9	6.7	4.1	6.3	6.0
* AST8118LM	123	6.1	5.9	6.7	6.0	6.6	7.1	6.7	4.1	6.4	6.0
SE5STAR	107	6.0	5.9	6.6	6.0	6.5	6.9	6.7	4.1	6.3	6.0
RAD-TF131	114	6.0	5.8	6.6	6.0	6.5	6.9	6.6	4.1	6.4	5.9
A-TF31	125	5.9	5.7	6.5	5.9	6.4	6.8	6.6	4.0	6.3	5.8
SETFM2	110	5.9	5.7	6.5	5.9	6.4	6.8	6.5	3.9	6.2	5.8
* ESCALADE	127	5.9	5.7	6.5	5.8	6.4	7.0	6.5	3.9	6.3	5.8
* GRAND PRIX (FC15-01P)	131	5.8	5.6	6.4	5.7	6.3	6.8	6.4	3.8	6.1	5.7
* OG-WALK	128	5.8	5.6	6.5	5.7	6.3	7.0	6.4	3.9	6.2	5.7
* PALOMAR	126	5.8	5.6	6.5	5.7	6.3	7.0	6.4	3.8	6.2	5.7
RAD-TF115 (TURBO SS)	97	5.8	5.6	6.4	5.8	6.2	6.7	6.4	3.9	6.1	5.7
* KENTUCKY-31	132	4.9	4.6	5.6	4.7	5.4	6.2	5.4	2.9	5.3	4.8
LSD VALUE		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)		7.6	7.8	7.1	7.6	7.1	6.9	6.9	11.1	7.4	7.5

\* COMMERCIALY AVAILABLE IN THE USA IN 2021

\*\* 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](http://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. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2020 DATA

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

NAME	ENTRY #	NJ1	NJ2	MD1	MO1	MEAN
FIERCE (K18-RS6)	70	7.5	6.8	7.8	6.4	7.1
TEACHER (PPG-TF 313)	118	8.1	6.1	7.5	6.4	7.1
TD2	18	7.6	6.4	7.6	6.5	7.0
SPYDER 2LS (ZRC1)	89	7.6	6.4	7.6	6.5	7.0
XANADU (JT 268)	75	7.4	6.4	7.6	6.4	6.9
STEALTH (PPG-TF 238)	81	7.4	6.3	7.5	6.4	6.9
K18-NSE	32	7.8	5.9	7.3	6.4	6.9
EXPANSE (PPG-TF 262)	67	7.4	6.2	7.4	6.4	6.9
DAYBREAK (AH2)	69	6.8	6.5	7.5	6.3	6.8
SOUTHSIDE (PPG-TF 267)	68	7.3	5.9	7.3	6.4	6.7
DLFPS-321/3707	61	7.3	6.0	7.3	6.3	6.7
CLASH (AH1)	65	6.9	6.3	7.4	6.3	6.7
RDC	25	7.3	5.9	7.3	6.3	6.7
DLFPS-321/3693	3	7.3	6.0	7.2	6.2	6.7
RC4	79	7.1	6.1	7.3	6.2	6.7
FINELAWN SUPREME (RH3)	73	7.0	6.0	7.3	6.3	6.7
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.9	6.1	7.3	6.2	6.6
CAPITAN (DLFPS-321/3705)	59	6.5	6.4	7.4	6.3	6.6
OKEEFE (LTP-TF-122)	29	7.2	5.8	7.2	6.2	6.6
RAPTOR LS (PPG-TF 336)	87	7.3	5.9	7.2	6.3	6.6
FIRENZA II (PPG-TF 244)	76	6.5	6.3	7.4	6.1	6.6
PARAMOUNT	2	7.3	5.7	7.1	6.2	6.6
RS1	9	7.0	5.9	7.2	6.2	6.6
K18-WB1	71	7.0	5.8	7.2	6.2	6.5
5LSS	10	7.2	5.7	7.1	6.2	6.5
TANK (PPG-TF 338)	121	7.0	6.1	7.3	6.3	6.5
RACEWAY (DLFPS-321/3696)	19	7.0	5.8	7.1	6.2	6.5
PPG-TF 312	85	7.6	5.5	7.0	6.2	6.5
TYCOON (COL-TF-148)	28	6.6	6.1	7.2	6.2	6.5
GALLARDO (DLFPS-TF/3550)	13	6.6	6.0	7.2	6.2	6.5
BONFIRE (JS DTT)	24	6.2	6.4	7.3	6.1	6.5
DLFPS-TF/3553	15	6.6	5.9	7.1	6.2	6.5
BULLSEYE LTZ	96	7.2	5.7	7.1	6.3	6.5
PROVIDENCE (GO-RH20)	99	6.8	6.1	7.3	6.2	6.5
ZION (BAR TF 134)	63	6.3	6.1	7.2	6.2	6.5
FIRECRACKER G-LS (PPG-TF 315)	86	6.9	5.9	7.2	6.2	6.4
BLADERUNNER 3 (DLFPS-321/3701)	34	6.8	5.7	7.1	6.2	6.4
DEGAS (LTP-TF-111)	30	6.5	5.9	7.1	6.1	6.4
SR 8700 (TMT1)	6	6.8	5.7	7.0	6.2	6.4
FALCON SUPREME (RH1)	72	6.3	6.1	7.2	6.1	6.4
DYNAMITE G-LS (PPG-TF 254)	82	6.6	5.8	7.1	6.2	6.4
ROWDIER (DLFPS-321/3699)	20	6.5	5.8	7.1	6.1	6.4
RHL2	115	6.9	5.8	7.1	6.1	6.4
VALSETZ (PPG-TF 257)	80	6.4	5.9	7.1	6.1	6.4
GEM (PPG-TF 316)	78	6.2	6.0	7.1	6.1	6.4
TITANIUM G-LS (PPG-TF 255)	84	6.5	6.2	7.3	6.3	6.3
TRIAD (PPG-TF 323)	120	6.6	6.1	7.3	6.2	6.3
PPG-TF 337	88	6.6	6.1	7.2	6.1	6.3
FASTLANE (BY-TF-169)	33	6.4	5.7	7.0	6.2	6.3

TABLE 5. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
 2020 DATA

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

NAME	ENTRY #	NJ1	NJ2	MD1	MO1	MEAN
PPG-TF 231	90	7.3	5.3	6.9	6.2	6.3
DLFPS-321/3694	4	6.9	5.4	6.8	6.1	6.3
ROVER (PPG-TF 306)	91	6.6	5.9	7.2	6.2	6.3
SYMPHONY (PPG-TF 305)	77	6.2	5.8	7.0	6.1	6.3
PPG-TF 249	66	6.3	5.7	6.9	6.1	6.2
NT-3	8	6.2	5.8	7.0	6.0	6.2
TITAN MAX (TF456)	130	6.6	5.9	7.2	6.2	6.2
DLFPS-321/3706	60	6.5	5.5	6.9	6.0	6.2
RHF	117	6.5	5.9	7.1	6.1	6.2
PPG-TF 318	92	6.7	5.7	7.0	6.1	6.2
DLFPS-321/3695	5	6.1	5.7	6.9	6.0	6.2
AVENGER III (PPG-TF 308)	83	6.4	5.9	7.1	6.1	6.2
DLFPS-321/3703	36	6.9	5.1	6.7	6.1	6.2
TITAN GLX (TF445)	129	6.2	6.1	7.2	6.1	6.2
HOUNDG NINE (DLFPS-321/3702)	35	6.2	5.5	6.8	6.0	6.1
BATTLE HAWK (NAI-ROS4)	103	6.6	5.7	7.0	6.1	6.1
JT 233	74	6.2	5.4	6.8	6.0	6.1
PADRE 2	56	6.2	5.4	6.8	6.0	6.1
DLFPS-321/3708	62	6.0	5.5	6.8	6.0	6.1
TALLADEGA II (NAI-3N2)	102	6.8	5.3	6.8	6.1	6.1
SERENADE (PPG-TF 320)	119	6.2	5.9	7.1	6.1	6.0
BENTLEY (DLFPS-321/3679)	16	6.0	5.3	6.7	5.9	6.0
DRAGSTER	98	6.2	5.7	6.9	6.0	6.0
GLX ACED (PST-5DART)	50	5.5	5.6	6.8	5.8	5.9
RAPTOR III	116	6.3	5.5	6.9	6.1	5.9
KIZZLE (K18-ROE)	31	5.7	5.3	6.6	5.8	5.9
ENDGAME (3N1)	53	6.0	5.0	6.5	5.9	5.8
ESTRENA	122	6.9	4.7	6.4	6.0	5.8
GRANDE 3	21	5.3	5.2	6.5	5.8	5.7
NAI-ST5	105	5.5	5.8	6.9	5.9	5.6
PST-5TRN	37	5.0	5.3	6.5	5.7	5.6
FAYETTE	22	5.7	4.6	6.3	5.8	5.6
GALACTIC (SESCR1)	108	5.7	5.5	6.8	5.9	5.6
FIREHAWK SLT	94	6.1	5.0	6.5	5.9	5.6
EXTRAVAGANZA (PST-5MCMO)	39	4.7	5.4	6.5	5.7	5.6
LIFEGUARD	44	5.0	5.0	6.3	5.7	5.5
3B2	112	5.9	5.1	6.6	5.9	5.5
PST-5GQ	38	4.9	5.0	6.3	5.7	5.5
GLX REVIVE (PST-5GLBS)	49	4.5	5.2	6.4	5.6	5.4
ORIOLE (PST-5BYOB)	43	4.7	5.1	6.3	5.6	5.4
PRO GOLD	40	4.9	4.8	6.2	5.6	5.4
HELLCAT GLR (PST-5E6)	41	4.3	5.3	6.4	5.5	5.3
HEMI	95	5.6	5.0	6.4	5.8	5.3
FAIRFIELD (SETF104)	109	5.5	4.9	6.4	5.7	5.2
MONUMENT (PST-5SQB)	47	4.5	4.8	6.1	5.4	5.2
MOONDANCE GLX	46	4.5	4.6	6.0	5.5	5.2
PST-5DZM	48	4.5	4.6	6.0	5.4	5.1
TOUGH (NAI-TUE)	104	4.9	5.2	6.4	5.7	5.0
TANGO	52	4.5	4.3	5.9	5.5	5.0

TABLE 5. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
 2020 DATA

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

NAME	ENTRY #	NJ1	NJ2	MD1	MO1	MEAN
BRAVO 2	57	4.5	4.2	5.8	5.4	5.0
PST-5DC24	51	4.3	4.4	5.8	5.4	5.0
COPIOUS TF	55	4.6	4.1	5.7	5.4	5.0
TAR HEEL III (PST-5THM)	42	3.8	4.6	5.9	5.3	4.9
RAD-TF105	113	5.1	4.7	6.2	5.6	4.9
LBF	17	4.3	4.2	5.7	5.4	4.9
JT 517	23	4.2	4.1	5.7	5.4	4.9
ATF2116	7	3.8	4.5	5.8	5.3	4.9
ATF1768	12	3.8	4.4	5.8	5.3	4.8
TOPSHELF (BGR-TF3)	11	4.2	3.9	5.6	5.3	4.7
PST-5MINK	45	4.0	4.0	5.6	5.3	4.7
NAI-FQ2-17	58	4.3	3.6	5.5	5.4	4.7
LAFAYETTE (GO-AOMK)	101	4.8	4.4	5.9	5.5	4.6
NATURALLY GREEN	1	3.6	4.0	5.5	5.2	4.6
BANDIT	54	3.8	3.6	5.4	5.2	4.5
SETFM3	111	4.5	4.5	6.0	5.5	4.5
RAD-TF131	114	5.1	3.8	5.6	5.4	4.5
BAR-FA8230	64	3.3	3.9	5.5	5.2	4.5
A-TF31	125	4.9	4.0	5.7	5.3	4.4
GRO-PRO (SE53D2)	106	4.1	4.6	6.0	5.4	4.3
BULLSEYE	93	4.3	4.3	5.8	5.4	4.3
SE5STAR	107	4.3	4.4	5.8	5.4	4.3
BARNOBLE (BAR 9FE MAS)	26	3.0	3.8	5.3	5.0	4.2
BIRMINGHAM	100	4.2	4.1	5.7	5.4	4.2
AST8218LM	124	3.9	4.1	5.6	5.3	4.0
RAD-TF115 (TURBO SS)	97	4.4	3.5	5.3	5.1	4.0
BAR FA 8228	27	2.5	3.4	5.0	4.8	3.9
AST8118LM	123	3.9	3.8	5.5	5.3	3.9
SETFM2	110	3.9	3.8	5.4	5.1	3.9
GRAND PRIX (FC15-01P)	131	3.3	3.7	5.3	5.0	3.5
ESCALADE	127	3.2	3.3	5.1	5.0	3.3
PALOMAR	126	2.4	3.0	4.7	4.7	2.7
OG-WALK	128	2.4	3.0	4.7	4.8	2.7
KENTUCKY-31	132	0.5	1.7	3.4	3.6	1.1
LSD VALUE		0.8	0.8	0.8	0.8	0.8
C.V. (%)		8.3	9.2	7.3	8.2	8.4

\* 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](http://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 6.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2020 DATA

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

NAME	ENTRY #	PA2	DE1	IN1	UT1	MEAN
CAPITAN (DLFPS-321/3705)	59	7.0	7.6	6.1	7.2	7.0
SOUTHSIDE (PPG-TF 267)	68	7.0	7.6	6.0	7.2	6.9
FASTLANE (BY-TF-169)	33	7.0	7.6	6.0	7.1	6.9
TITANIUM G-LS (PPG-TF 255)	84	7.0	7.7	6.1	7.2	6.9
DAYBREAK (AH2)	69	6.9	7.6	6.1	7.1	6.9
TD2	18	6.9	7.6	6.1	7.1	6.9
FALCON SUPREME (RH1)	72	6.9	7.5	6.0	7.1	6.9
ZION (BAR TF 134)	63	6.9	7.5	6.0	7.1	6.9
EXPANSE (PPG-TF 262)	67	6.9	7.6	6.0	7.1	6.9
TRIAD (PPG-TF 323)	120	7.0	7.6	6.1	7.1	6.9
XANADU (JT 268)	75	6.8	7.6	6.0	7.1	6.9
GEM (PPG-TF 316)	78	6.9	7.5	6.0	7.0	6.9
CLASH (AH1)	65	6.8	7.5	6.0	7.1	6.9
BLADERUNNER 3 (DLFPS-321/3701)	34	6.9	7.5	5.9	7.1	6.9
SPYDER 2LS (ZRC1)	89	6.9	7.6	6.1	7.1	6.9
GALLARDO (DLFPS-TF/3550)	13	6.9	7.5	6.0	7.0	6.9
SYMPHONY (PPG-TF 305)	77	6.9	7.5	6.0	7.0	6.8
SERENADE (PPG-TF 320)	119	7.0	7.5	6.0	7.1	6.8
STEALTH (PPG-TF 238)	81	6.8	7.6	6.0	7.1	6.8
DLFPS-TF/3553	15	6.9	7.5	6.0	7.0	6.8
FINELAWN SUPREME (RH3)	73	6.8	7.5	6.0	7.0	6.8
DLFPS-321/3708	62	7.0	7.5	5.9	7.0	6.8
DYNAMITE G-LS (PPG-TF 254)	82	6.9	7.5	5.9	7.0	6.8
FERCE (K18-RS6)	70	6.7	7.6	6.0	7.0	6.8
BONFIRE (JS DTT)	24	6.8	7.5	6.0	7.0	6.8
DLFPS-321/3707	61	6.8	7.5	5.9	7.0	6.8
TITAN MAX (TF456)	130	6.9	7.5	6.0	7.1	6.8
HOUND OG NINE (DLFPS-321/3702)	35	6.9	7.4	5.9	7.0	6.8
RACEWAY (DLFPS-321/3696)	19	6.8	7.5	5.9	7.0	6.8
FIRENZA II (PPG-TF 244)	76	6.8	7.5	6.0	7.0	6.8
TITAN GLX (TF445)	129	6.9	7.5	6.0	7.1	6.8
K18-NSE	32	6.8	7.5	5.9	7.0	6.8
ROWDIER (DLFPS-321/3699)	20	6.8	7.5	5.9	7.0	6.8
TANK (PPG-TF 338)	121	6.9	7.5	6.0	7.1	6.8
PROVIDENCE (GO-RH20)	99	6.9	7.5	6.0	7.1	6.8
PPG-TF 249	66	6.9	7.4	5.9	7.0	6.8
SR 8700 (TMT1)	6	6.8	7.5	5.9	7.0	6.8
TYCOON (COL-TF-148)	28	6.8	7.5	5.9	7.0	6.8
JT 233	74	6.9	7.4	5.9	7.0	6.8
DLFPS-321/3695	5	6.9	7.4	5.9	7.0	6.8
ENDGAME (3N1)	53	7.0	7.4	5.8	7.0	6.8
ROVER (PPG-TF 306)	91	6.9	7.5	6.0	7.0	6.8
RS1	9	6.8	7.5	5.9	7.0	6.8
DEGAS (LTP-TF-111)	30	6.8	7.4	5.9	7.0	6.8
OKEEFE (LTP-TF-122)	29	6.8	7.5	5.9	7.0	6.8
NT-3	8	6.8	7.4	5.9	7.0	6.8
K18-WB1	71	6.8	7.4	5.9	7.0	6.8
RC4	79	6.7	7.5	5.9	7.0	6.8
RDC	25	6.8	7.5	5.9	7.0	6.8

TABLE 6. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2020 DATA

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

NAME	ENTRY #	PA2	DE1	IN1	UT1	MEAN
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.7	7.5	5.9	7.0	6.8
BULLSEYE LTZ	96	6.9	7.5	5.9	7.0	6.8
VALSETZ (PPG-TF 257)	80	6.8	7.4	5.9	7.0	6.8
PADRE 2	56	6.9	7.4	5.8	6.9	6.8
5LSS	10	6.8	7.4	5.8	7.0	6.8
GLX REVIVE (PST-5GLBS)	49	6.9	7.3	5.9	6.9	6.7
PARAMOUNT	2	6.8	7.4	5.8	7.0	6.7
NAI-ST5	105	6.9	7.4	5.9	7.0	6.7
GALACTIC (SESCR1)	108	6.9	7.4	5.9	7.0	6.7
RAPTOR LS (PPG-TF 336)	87	6.8	7.5	5.9	7.0	6.7
DLFPS-321/3706	60	6.8	7.4	5.8	6.9	6.7
RAPTOR III	116	6.9	7.4	5.9	7.0	6.7
AVENGER III (PPG-TF 308)	83	6.8	7.4	5.9	7.0	6.7
3B2	112	6.9	7.4	5.8	7.0	6.7
TEACHER (PPG-TF 313)	118	6.7	7.5	5.9	7.0	6.7
BATTLE HAWK (NAI-ROS4)	103	6.8	7.4	5.9	7.0	6.7
RHF	117	6.8	7.4	5.9	7.0	6.7
GRANDE 3	21	6.8	7.3	5.8	6.9	6.7
GLX ACED (PST-5DART)	50	6.8	7.3	5.8	6.9	6.7
LIFEGUARD	44	6.9	7.3	5.8	6.9	6.7
EXTRAVAGANZA (PST-5MCMO)	39	6.8	7.3	5.8	6.9	6.7
FIRECRACKER G-LS (PPG-TF 315)	86	6.8	7.4	5.9	7.0	6.7
DLFPS-321/3693	3	6.7	7.4	5.8	6.9	6.7
PST-5TRN	37	6.8	7.3	5.8	6.9	6.7
BENTLEY (DLFPS-321/3679)	16	6.8	7.3	5.8	6.9	6.7
PST-5GQ	38	6.9	7.3	5.8	6.9	6.7
KIZZLE (K18-ROE)	31	6.8	7.3	5.8	6.9	6.7
DLFPS-321/3703	36	6.8	7.3	5.7	6.9	6.7
FIREHAWK SLT	94	6.9	7.3	5.7	6.9	6.7
TOUGH (NAI-TUE)	104	6.9	7.3	5.8	6.9	6.7
FAYETTE	22	6.9	7.2	5.6	6.8	6.6
DLFPS-321/3694	4	6.7	7.3	5.7	6.9	6.6
PPG-TF 231	90	6.8	7.4	5.7	6.9	6.6
BAR-FA8230	64	7.0	7.1	5.6	6.8	6.6
DRAGSTER	98	6.7	7.4	5.8	6.9	6.6
ORIOLE (PST-5BYOB)	43	6.8	7.2	5.7	6.8	6.6
JT 517	23	6.9	7.1	5.6	6.8	6.6
PPG-TF 337	88	6.7	7.4	5.8	6.9	6.6
ATF1768	12	6.9	7.1	5.7	6.8	6.6
HELLCAT GLR (PST-5E6)	41	6.8	7.2	5.7	6.8	6.6
HEMI	95	6.8	7.3	5.7	6.9	6.6
PPG-TF 318	92	6.7	7.3	5.8	6.9	6.6
TALLADEGA II (NAI-3N2)	102	6.8	7.3	5.7	6.9	6.6
TANGO	52	6.9	7.1	5.6	6.8	6.6
NAI-FQZ-17	58	7.0	7.1	5.5	6.8	6.6
TAR HEEL III (PST-5THM)	42	6.8	7.1	5.7	6.8	6.6
RHL2	115	6.7	7.3	5.8	6.9	6.6
LBF	17	6.9	7.1	5.6	6.7	6.6
MOONDANCE GLX	46	6.8	7.1	5.6	6.7	6.6

TABLE 6.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2020 DATA

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

NAME	ENTRY #	PA2	DE1	IN1	UT1	MEAN
PRO GOLD	40	6.8	7.1	5.6	6.7	6.6
SETFM3	111	6.9	7.2	5.6	6.8	6.6
ATF2116	7	6.8	7.1	5.6	6.7	6.6
PST-5DC24	51	6.8	7.1	5.6	6.7	6.6
BRAVO 2	57	6.8	7.1	5.5	6.7	6.5
RAD-TF105	113	6.8	7.2	5.6	6.8	6.5
GRO-PRO (SE53D2)	106	6.8	7.1	5.6	6.7	6.5
AST8218LM	124	6.9	7.1	5.6	6.7	6.5
PPG-TF 312	85	6.6	7.3	5.6	6.8	6.5
BANDIT	54	6.9	7.0	5.5	6.7	6.5
PST-5DZM	48	6.7	7.1	5.5	6.7	6.5
ESTRENA	122	6.7	7.2	5.5	6.8	6.5
NATURALLY GREEN	1	6.8	7.0	5.5	6.7	6.5
BIRMINGHAM	100	6.9	7.1	5.5	6.7	6.5
TOPSHELF (BGR-TF3)	11	6.8	7.0	5.5	6.7	6.5
PST-5MINK	45	6.8	7.0	5.5	6.6	6.5
MONUMENT (PST-5SQB)	47	6.7	7.0	5.5	6.6	6.5
COPIOUS TF	55	6.8	7.0	5.5	6.6	6.5
FAIRFIELD (SETF104)	109	6.7	7.1	5.6	6.7	6.5
BULLSEYE	93	6.8	7.1	5.5	6.7	6.5
SE5STAR	107	6.8	7.1	5.5	6.7	6.5
AST8118LM	123	6.9	7.0	5.5	6.7	6.5
LAFAYETTE (GO-AOMK)	101	6.7	7.1	5.5	6.7	6.4
BARNOBLE (BAR 9FE MAS)	26	6.7	6.8	5.4	6.5	6.4
BAR FA 8228	27	6.8	6.8	5.3	6.5	6.4
RAD-TF131	114	6.6	6.9	5.3	6.5	6.3
SETFM2	110	6.7	6.9	5.3	6.5	6.3
ESCALADE	127	6.7	6.8	5.3	6.5	6.3
OG-WALK	128	6.8	6.8	5.3	6.5	6.3
A-TF31	125	6.6	6.9	5.3	6.5	6.3
PALOMAR	126	6.8	6.7	5.2	6.5	6.3
GRAND PRIX (FC15-01P)	131	6.6	6.8	5.3	6.5	6.2
RAD-TF115 (TURBO SS)	97	6.5	6.7	5.1	6.3	6.1
KENTUCKY-31	132	6.0	5.8	4.3	5.6	5.4
LSD VALUE		0.8	0.8	0.8	0.8	0.8
C.V. (%)		7.0	6.6	8.3	7.0	7.2

\* 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](http://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 7. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 \*/  
2020 DATA

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

NAME	ENTRY #	GA1	OK1	KS1	MEAN
CAPITAN (DLFPS-321/3705)	59	7.1	6.0	5.0	6.0
BONFIRE (JS DTT)	24	7.1	5.9	4.9	6.0
DAYBREAK (AH2)	69	7.0	5.9	5.0	6.0
TITANIUM G-LS (PPG-TF 255)	84	6.9	5.9	5.0	5.9
TITAN GLX (TF445)	129	6.9	5.9	4.9	5.9
FIRENZA II (PPG-TF 244)	76	7.0	5.8	4.9	5.9
FALCON SUPREME (RH1)	72	6.9	5.9	4.9	5.9
NAI-ST5	105	6.8	5.9	4.8	5.9
FIERCE (K18-RS6)	70	7.0	5.7	4.9	5.9
ZION (BAR TF 134)	63	6.9	5.8	4.9	5.9
TRIAD (PPG-TF 323)	120	6.9	5.8	4.9	5.8
GLX REVIVE (PST-5GLBS)	49	6.7	6.0	4.8	5.8
SERENADE (PPG-TF 320)	119	6.8	5.8	4.8	5.8
GEM (PPG-TF 316)	78	6.8	5.8	4.8	5.8
HELLCAT GLR (PST-5E6)	41	6.7	5.9	4.7	5.8
CLASH (AH1)	65	6.8	5.7	4.8	5.8
EXTRAVAGANZA (PST-5MCMO)	39	6.7	5.9	4.7	5.8
XANADU (JT 268)	75	6.8	5.6	4.8	5.7
PROVIDENCE (GO-RH20)	99	6.8	5.7	4.8	5.7
SPYDER 2LS (ZRC1)	89	6.8	5.6	4.8	5.7
SYMPHONY (PPG-TF 305)	77	6.7	5.7	4.8	5.7
GALLARDO (DLFPS-TF/3550)	13	6.7	5.7	4.8	5.7
TITAN MAX (TF456)	130	6.7	5.7	4.8	5.7
TD2	18	6.8	5.5	4.8	5.7
TYCOON (COL-TF-148)	28	6.7	5.6	4.7	5.7
FASTLANE (BY-TF-169)	33	6.6	5.7	4.8	5.7
AVENGER III (PPG-TF 308)	83	6.7	5.6	4.7	5.7
GLX ACED (PST-5DART)	50	6.6	5.7	4.7	5.7
TANK (PPG-TF 338)	121	6.7	5.6	4.7	5.7
ROVER (PPG-TF 306)	91	6.7	5.6	4.7	5.7
NT-3	8	6.6	5.7	4.7	5.7
DLFPS-321/3695	5	6.6	5.7	4.7	5.7
PST-5TRN	37	6.6	5.8	4.7	5.7
DLFPS-TF/3553	15	6.6	5.6	4.7	5.7
GALACTIC (SESCR1)	108	6.6	5.7	4.7	5.7
DEGAS (LTP-TF-111)	30	6.7	5.6	4.7	5.6
TOUGH (NAI-TUE)	104	6.5	5.8	4.6	5.6
VALSETZ (PPG-TF 257)	80	6.6	5.6	4.7	5.6
PPG-TF 337	88	6.7	5.6	4.7	5.6
RHF	117	6.6	5.6	4.7	5.6
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.7	5.5	4.7	5.6
EXPANSE (PPG-TF 262)	67	6.7	5.5	4.7	5.6
STEALTH (PPG-TF 238)	81	6.7	5.5	4.7	5.6
ROWDIER (DLFPS-321/3699)	20	6.6	5.6	4.7	5.6
FINELAWN SUPREME (RH3)	73	6.6	5.5	4.7	5.6
DLFPS-321/3708	62	6.5	5.6	4.7	5.6
DYNAMITE G-LS (PPG-TF 254)	82	6.6	5.6	4.7	5.6
RC4	79	6.6	5.5	4.6	5.6
ORIOLE (PST-5BYOB)	43	6.4	5.7	4.6	5.6

TABLE 7. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 \*/  
 2020 DATA

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

NAME	ENTRY #	GA1	OK1	KS1	MEAN
TAR HEEL III (PST-5THM)	42	6.4	5.8	4.5	5.6
PPG-TF 249	66	6.5	5.6	4.6	5.6
DRAGSTER	98	6.5	5.6	4.6	5.6
SOUTHSIDE (PPG-TF 267)	68	6.5	5.5	4.7	5.6
PST-5GQ	38	6.4	5.7	4.6	5.5
GRANDE 3	21	6.4	5.6	4.6	5.5
LIFEGUARD	44	6.4	5.7	4.6	5.5
BATTLE HAWK (NAI-ROS4)	103	6.5	5.5	4.6	5.5
FIRECRACKER G-LS (PPG-TF 315)	86	6.5	5.4	4.6	5.5
BLADERUNNER 3 (DLFPS-321/3701)	34	6.5	5.5	4.6	5.5
HOUNDOG NINE (DLFPS-321/3702)	35	6.4	5.5	4.6	5.5
RS1	9	6.5	5.4	4.6	5.5
JT 233	74	6.4	5.5	4.6	5.5
ATF1768	12	6.2	5.8	4.5	5.5
GRO-PRO (SE53D2)	106	6.3	5.7	4.5	5.5
SR 8700 (TMT1)	6	6.4	5.4	4.6	5.5
KIZZLE (K18-ROE)	31	6.4	5.5	4.5	5.5
RAPTOR III	116	6.4	5.5	4.6	5.5
DLFPS-321/3707	61	6.5	5.4	4.6	5.5
RACEWAY (DLFPS-321/3696)	19	6.4	5.4	4.6	5.5
K18-WB1	71	6.5	5.4	4.6	5.5
ATF2116	7	6.2	5.7	4.5	5.5
RAPTOR LS (PPG-TF 336)	87	6.4	5.3	4.6	5.4
OKEEFE (LTP-TF-122)	29	6.4	5.3	4.5	5.4
DLFPS-321/3706	60	6.4	5.4	4.5	5.4
RDC	25	6.4	5.3	4.5	5.4
PADRE 2	56	6.3	5.4	4.5	5.4
BULLSEYE LTZ	96	6.4	5.3	4.5	5.4
RHL2	115	6.4	5.3	4.5	5.4
BENTLEY (DLFPS-321/3679)	16	6.3	5.4	4.5	5.4
PPG-TF 318	92	6.4	5.3	4.5	5.4
DLFPS-321/3693	3	6.4	5.3	4.5	5.4
BAR-FA8230	64	6.0	5.7	4.4	5.4
3B2	112	6.2	5.5	4.5	5.4
MONUMENT (PST-5SQB)	47	6.2	5.5	4.4	5.4
MOONDANCE GLX	46	6.2	5.5	4.4	5.4
5LSS	10	6.3	5.3	4.5	5.4
HEMI	95	6.2	5.4	4.4	5.3
SETFM3	111	6.1	5.5	4.4	5.3
PRO GOLD	40	6.1	5.5	4.4	5.3
ENDGAME (3N1)	53	6.1	5.4	4.4	5.3
TEACHER (PPG-TF 313)	118	6.4	5.1	4.5	5.3
K18-NSE	32	6.3	5.2	4.5	5.3
PST-5DZM	48	6.1	5.5	4.3	5.3
PST-5DC24	51	6.0	5.5	4.3	5.3
RAD-TF105	113	6.1	5.4	4.3	5.3
NATURALLY GREEN	1	6.0	5.6	4.3	5.3
PARAMOUNT	2	6.2	5.2	4.4	5.3
SE5STAR	107	6.0	5.5	4.3	5.3



TABLE 7. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 \*/  
2020 DATA

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

NAME	ENTRY #	GA1	OK1	KS1	MEAN
TANGO	52	6.0	5.5	4.3	5.3
JT 517	23	5.9	5.5	4.3	5.3
AST8218LM	124	5.9	5.5	4.3	5.2
FIREHAWK SLT	94	6.1	5.3	4.4	5.2
FAIRFIELD (SETF104)	109	6.1	5.3	4.3	5.2
BULLSEYE	93	5.9	5.4	4.3	5.2
LBF	17	5.9	5.4	4.3	5.2
TALLADEGA II (NAI-3N2)	102	6.1	5.1	4.3	5.2
BIRMINGHAM	100	5.9	5.4	4.2	5.2
BARNOBLE (BAR 9FE MAS)	26	5.8	5.5	4.2	5.2
DLFPS-321/3694	4	6.1	5.1	4.3	5.2
BRAVO 2	57	5.9	5.4	4.2	5.2
LAFAYETTE (GO-AOMK)	101	5.9	5.3	4.2	5.1
PST-5MINK	45	5.8	5.4	4.2	5.1
FAYETTE	22	5.9	5.2	4.2	5.1
BAR FA 8228	27	5.7	5.5	4.1	5.1
AST8118LM	123	5.7	5.3	4.1	5.1
DLFPS-321/3703	36	5.9	5.0	4.2	5.1
TOPSHELF (BGR-TF3)	11	5.7	5.3	4.1	5.1
PPG-TF 231	90	5.9	5.0	4.2	5.0
GRAND PRIX (FC15-01P)	131	5.7	5.4	4.1	5.0
BANDIT	54	5.6	5.3	4.1	5.0
COPIOUS TF	55	5.7	5.2	4.1	5.0
PPG-TF 312	85	5.9	4.9	4.2	5.0
SETFM2	110	5.6	5.2	4.0	5.0
NAI-FQZ-17	58	5.5	5.2	4.1	5.0
PALOMAR	126	5.5	5.4	4.0	4.9
OG-WALK	128	5.5	5.4	4.0	4.9
ESCALADE	127	5.5	5.3	4.0	4.9
A-TF31	125	5.5	4.9	3.9	4.8
ESTRENA	122	5.5	4.7	4.0	4.7
RAD-TF131	114	5.3	4.8	3.8	4.6
RAD-TF115 (TURBO SS)	97	5.1	4.7	3.6	4.5
KENTUCKY-31	132	4.5	4.6	3.1	4.1
LSD VALUE		0.8	0.8	0.8	0.8
C.V. (%)		7.6	8.7	10.6	8.8

\* 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](http://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 8. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 \*/  
2020 DATA

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

NAME	ENTRY #	NC1	MS1	MEAN
BONFIRE (JS DTT)	24	5.4	5.0	5.2
CAPITAN (DLFPS-321/3705)	59	5.3	4.9	5.1
DAYBREAK (AH2)	69	5.2	4.9	5.1
FIRENZA II (PPG-TF 244)	76	5.2	4.8	5.0
FIERCE (K18-RS6)	70	5.1	4.9	5.0
NAI-ST5	105	5.2	4.7	5.0
HELLCAT GLR (PST-5E6)	41	5.3	4.6	5.0
TITAN GLX (TF445)	129	5.1	4.8	5.0
TITANIUM G-LS (PPG-TF 255)	84	5.1	4.8	4.9
FALCON SUPREME (RH1)	72	5.1	4.7	4.9
GLX REVIVE (PST-5GLBS)	49	5.2	4.6	4.9
ZION (BAR TF 134)	63	5.0	4.7	4.9
EXTRAVAGANZA (PST-5MCMO)	39	5.2	4.6	4.9
TRIAD (PPG-TF 323)	120	4.9	4.7	4.8
GEM (PPG-TF 316)	78	5.0	4.6	4.8
SERENADE (PPG-TF 320)	119	4.9	4.6	4.8
CLASH (AH1)	65	4.9	4.7	4.8
XANADU (JT 268)	75	4.8	4.7	4.7
GLX ACED (PST-5DART)	50	4.9	4.5	4.7
PROVIDENCE (GO-RH20)	99	4.8	4.6	4.7
TYCOON (COL-TF-148)	28	4.8	4.5	4.6
PPG-TF 337	88	4.8	4.5	4.6
GALLARDO (DLFPS-TF/3550)	13	4.7	4.5	4.6
PST-5TRN	37	4.9	4.4	4.6
SYMPHONY (PPG-TF 305)	77	4.8	4.5	4.6
SPYDER 2LS (ZRCL)	89	4.6	4.6	4.6
AVENGER III (PPG-TF 308)	83	4.7	4.5	4.6
NT-3	8	4.7	4.5	4.6
TITAN MAX (TF456)	130	4.7	4.5	4.6
TOUGH (NAI-TUE)	104	4.8	4.3	4.6
DEGAS (LTP-TF-111)	30	4.7	4.5	4.6
VALSETZ (PPG-TF 257)	80	4.7	4.5	4.6
TD2	18	4.6	4.6	4.6
DLFPS-321/3695	5	4.7	4.4	4.6
ESSENTIAL 2 (DLFPS-TF/3552)	14	4.6	4.5	4.6
ROVER (PPG-TF 306)	91	4.6	4.5	4.5
RHF	117	4.6	4.4	4.5
TANK (PPG-TF 338)	121	4.6	4.5	4.5
GALACTIC (SESCR1)	108	4.7	4.4	4.5
TAR HEEL III (PST-5THM)	42	4.9	4.2	4.5
ORIOLE (PST-5BYOB)	43	4.8	4.3	4.5
DLFPS-TF/3553	15	4.6	4.4	4.5
DRAGSTER	98	4.6	4.4	4.5
FASTLANE (BY-TF-169)	33	4.6	4.4	4.5
ROWDIER (DLFPS-321/3699)	20	4.6	4.4	4.5
STEALTH (PPG-TF 238)	81	4.5	4.5	4.5
RC4	79	4.5	4.4	4.5
FINELAWN SUPREME (RH3)	73	4.5	4.4	4.4
EXPANSE (PPG-TF 262)	67	4.4	4.4	4.4

TABLE 8. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 \*/  
 2020 DATA

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

NAME	ENTRY #	NC1	MS1	MEAN
DYNAMITE G-LS (PPG-TF 254)	82	4.5	4.3	4.4
DLFPS-321/3708	62	4.5	4.3	4.4
PST-5GQ	38	4.6	4.2	4.4
GRANDE 3	21	4.6	4.2	4.4
PPG-TF 249	66	4.5	4.3	4.4
GRO-PRO (SE53D2)	106	4.7	4.1	4.4
LIFEGUARD	44	4.6	4.2	4.4
FIRECRACKER G-LS (PPG-TF 315)	86	4.4	4.3	4.4
BATTLE HAWK (NAI-ROS4)	103	4.4	4.3	4.4
ATF1768	12	4.7	4.0	4.3
ATF2116	7	4.7	4.0	4.3
KIZZLE (K18-ROE)	31	4.5	4.2	4.3
RS1	9	4.3	4.3	4.3
MONUMENT (PST-5SQB)	47	4.5	4.0	4.3
HOUND OG NINE (DLFPS-321/3702)	35	4.4	4.2	4.3
JT 233	74	4.4	4.2	4.3
BLADERUNNER 3 (DLFPS-321/3701)	34	4.3	4.2	4.3
SR 8700 (TMT1)	6	4.3	4.2	4.2
K18-WB1	71	4.3	4.2	4.2
SOUTHSIDE (PPG-TF 267)	68	4.2	4.2	4.2
RHL2	115	4.3	4.2	4.2
RAPTOR III	116	4.3	4.1	4.2
DLFPS-321/3707	61	4.2	4.2	4.2
RACEWAY (DLFPS-321/3696)	19	4.2	4.2	4.2
PPG-TF 318	92	4.2	4.1	4.2
DLFPS-321/3706	60	4.2	4.1	4.2
DLFPS-321/3693	3	4.2	4.2	4.2
BENTLEY (DLFPS-321/3679)	16	4.3	4.1	4.2
RDC	25	4.1	4.2	4.2
RAPTOR LS (PPG-TF 336)	87	4.1	4.2	4.1
MOONDANCE GLX	46	4.4	3.9	4.1
OKEEFE (LTP-TF-122)	29	4.1	4.2	4.1
PADRE 2	56	4.2	4.1	4.1
BAR-FA8230	64	4.4	3.8	4.1
PST-5DZM	48	4.3	3.9	4.1
PRO GOLD	40	4.3	3.9	4.1
BULLSEYE LTZ	96	4.0	4.1	4.1
SETFM3	111	4.3	3.8	4.1
HEMI	95	4.2	3.9	4.0
5LSS	10	4.0	4.0	4.0
3B2	112	4.1	3.9	4.0
NATURALLY GREEN	1	4.3	3.7	4.0
PST-5DC24	51	4.2	3.8	4.0
SE5STAR	107	4.2	3.8	4.0
RAD-TF105	113	4.1	3.8	4.0
TEACHER (PPG-TF 313)	118	3.8	4.1	3.9
FAIRFIELD (SETF104)	109	4.1	3.8	3.9
BARNOBLE (BAR 9FE MAS)	26	4.3	3.6	3.9

TABLE 8. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 \*/  
2020 DATA

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

NAME	ENTRY #	NC1	MS1	MEAN
K18-NSE	32	3.8	4.0	3.9
TANGO	52	4.1	3.7	3.9
BULLSEYE	93	4.1	3.7	3.9
AST8218LM	124	4.1	3.6	3.9
ENDGAME (3N1)	53	3.9	3.8	3.9
PARAMOUNT	2	3.8	3.9	3.9
JT 517	23	4.1	3.7	3.9
FIREHAWK SLT	94	3.8	3.8	3.8
LBF	17	4.0	3.6	3.8
BAR FA 8228	27	4.1	3.4	3.8
BIRMINGHAM	100	4.0	3.6	3.8
GRAND PRIX (FC15-01P)	131	4.0	3.5	3.7
BRAVO 2	57	3.9	3.6	3.7
TALLADEGA II (NAI-3N2)	102	3.7	3.8	3.7
LAFAYETTE (GO-AOMK)	101	3.9	3.6	3.7
PST-5MINK	45	3.9	3.5	3.7
DLFPS-321/3694	4	3.7	3.8	3.7
TOPSHELF (BGR-TF3)	11	3.8	3.4	3.6
FAYETTE	22	3.6	3.6	3.6
AST8118LM	123	3.8	3.4	3.6
SETFM2	110	3.8	3.4	3.6
COPIOUS TF	55	3.7	3.4	3.5
PALOMAR	126	3.8	3.2	3.5
DLFPS-321/3703	36	3.4	3.6	3.5
BANDIT	54	3.7	3.3	3.5
OG-WALK	128	3.8	3.2	3.5
PPG-TF 312	85	3.3	3.6	3.5
PPG-TF 231	90	3.3	3.6	3.4
ESCALADE	127	3.7	3.2	3.4
NAI-FQZ-17	58	3.4	3.2	3.3
A-TF31	125	3.3	3.2	3.2
ESTRENA	122	2.8	3.1	3.0
RAD-TF131	114	2.9	2.9	2.9
RAD-TF115 (TURBO SS)	97	2.9	2.8	2.8
KENTUCKY-31	132	3.0	2.2	2.6
LSD VALUE		0.8	0.8	0.8
C.V. (%)		11.0	11.7	11.4

\* 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](http://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 9.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2021 DATA

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

NAME	ENTRY #	VA1	DE1	TN1	MI1	IA1	MO1	OK1	NE1	UT1	MEAN
* TITANIUM G-LS (PPG-TF 255)	84	6.6	7.3	7.2	7.2	6.8	5.5	5.7	7.1	6.9	7.0
RHL2	115	6.6	7.3	7.0	7.1	6.7	5.5	5.6	7.0	6.8	6.9
* AVENGER III (PPG-TF 308)	83	6.6	7.3	7.1	7.2	6.8	5.5	5.6	7.1	6.9	6.9
* SPYDER 2LS (ZRC1)	89	6.6	7.3	7.0	7.1	6.6	5.5	5.6	7.0	6.8	6.9
* TRIAD (PPG-TF 323)	120	6.6	7.2	7.1	7.2	6.9	5.5	5.6	7.1	6.9	6.9
* TEACHER (PPG-TF 313)	118	6.6	7.2	7.1	7.2	6.8	5.5	5.6	7.1	6.8	6.9
PROVIDENCE (GO-RH20)	99	6.6	7.2	7.1	7.1	6.7	5.5	5.6	7.0	6.9	6.9
* SERENADE (PPG-TF 320)	119	6.6	7.2	7.1	7.1	6.7	5.5	5.6	7.0	6.9	6.9
* FIRECRACKER G-LS (PPG-TF 315)	86	6.6	7.2	7.0	7.1	6.7	5.5	5.6	7.0	6.8	6.9
* RAPTOR LS (PPG-TF 336)	87	6.6	7.2	6.9	7.1	6.5	5.5	5.5	6.9	6.8	6.9
* TITAN GLX (TF445)	129	6.5	7.2	7.0	7.1	6.5	5.4	5.6	6.9	6.9	6.9
PPG-TF 337	88	6.6	7.2	7.1	7.2	6.9	5.4	5.6	7.1	6.9	6.9
* TANK (PPG-TF 338)	121	6.5	7.2	7.0	7.1	6.7	5.5	5.5	7.0	6.8	6.9
* BULLSEYE LTZ	96	6.5	7.2	7.0	7.1	6.8	5.4	5.5	7.0	6.8	6.8
* ROVER (PPG-TF 306)	91	6.5	7.2	7.0	7.1	6.7	5.4	5.5	7.0	6.8	6.8
NAI-ST5	105	6.5	7.2	7.1	7.1	6.8	5.4	5.6	7.0	6.8	6.8
BATTLE HAWK (NAI-ROS4)	103	6.5	7.2	7.0	7.1	6.7	5.4	5.5	7.0	6.8	6.8
* GALACTIC (SESCR1)	108	6.5	7.1	7.0	7.0	6.6	5.3	5.5	6.9	6.8	6.8
* TITAN MAX (TF456)	130	6.4	7.1	7.0	7.0	6.7	5.3	5.5	6.9	6.7	6.8
RHF	117	6.4	7.1	6.9	7.0	6.5	5.3	5.5	6.9	6.7	6.7
PPG-TF 231	90	6.4	7.0	6.9	7.1	6.8	5.3	5.4	7.0	6.6	6.7
* DRAGSTER	98	6.4	7.0	7.0	7.0	6.7	5.2	5.5	6.9	6.7	6.7
* FIREHAWK SLT	94	6.4	7.0	7.1	7.1	6.9	5.2	5.4	7.1	6.7	6.7
PPG-TF 312	85	6.3	7.0	6.7	6.9	6.4	5.3	5.3	6.7	6.5	6.7
* RAPTOR III	116	6.4	7.0	7.1	7.0	6.9	5.2	5.4	7.0	6.7	6.7
* HEMI	95	6.4	7.0	7.1	7.0	6.9	5.1	5.4	7.0	6.7	6.7
EXPANSE (PPG-TF 262)	67	6.7	7.4	7.1	7.3	6.8	5.6	5.7	7.1	7.0	6.7
* TALLADEGA II (NAI-3N2)	102	6.4	7.0	6.8	7.0	6.7	5.2	5.3	6.9	6.6	6.7
PPG-TF 318	92	6.3	7.0	7.0	6.9	6.6	5.1	5.4	6.9	6.7	6.6
SOUTHSIDE (PPG-TF 267)	68	6.6	7.3	7.1	7.2	6.9	5.5	5.6	7.1	6.9	6.6
3B2	112	6.3	6.9	7.0	7.0	6.8	5.1	5.4	7.0	6.6	6.6
* DAYBREAK (AH2)	69	6.7	7.4	7.1	7.1	6.5	5.6	5.7	7.0	6.9	6.6
GEM (PPG-TF 316)	78	6.6	7.2	7.0	7.2	6.7	5.5	5.6	7.0	6.8	6.6
* HOUND DOG NINE (DLFPS-321/3702)	35	6.6	7.2	6.9	7.2	6.8	5.6	5.5	7.0	6.8	6.6
* TOUGH (NAI-TUE)	104	6.3	6.8	7.1	7.0	7.0	5.0	5.4	7.0	6.6	6.6
TD2	18	6.6	7.2	7.1	7.1	6.7	5.4	5.6	7.0	6.9	6.5
CLASH (AH1)	65	6.6	7.3	6.9	7.1	6.5	5.6	5.6	6.9	6.9	6.5
DLFPS-321/3708	62	6.5	7.2	7.1	7.1	6.8	5.4	5.6	7.1	6.8	6.5
* BLADERUNNER 3 (DLFPS-321/3701)	34	6.6	7.2	7.0	7.2	6.8	5.4	5.5	7.1	6.8	6.5
DLFPS-TF/3553	15	6.6	7.2	7.0	7.2	6.8	5.4	5.5	7.1	6.8	6.5
* XANADU (JT 268)	75	6.5	7.2	7.1	7.1	6.7	5.4	5.6	7.0	6.9	6.5
FALCON SUPREME (RH1)	72	6.5	7.2	7.1	7.1	6.8	5.4	5.6	7.1	6.8	6.5
* FASTLANE (BY-TF-169)	33	6.5	7.2	7.0	7.1	6.8	5.4	5.6	7.0	6.8	6.5
* FIRENZA II (PPG-TF 244)	76	6.6	7.2	7.1	7.1	6.6	5.4	5.6	7.0	6.8	6.5
* FAIRFIELD (SETF104)	109	6.2	6.8	6.9	6.9	6.8	5.0	5.3	6.9	6.5	6.5

TABLE 9.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2021 DATA

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

NAME	ENTRY #	VA1	DE1	TN1	MI1	IA1	MO1	OK1	NE1	UT1	MEAN
VALSETZ (PPG-TF 257)	80	6.5	7.1	7.1	7.1	6.8	5.4	5.5	7.1	6.8	6.5
DLFPS-321/3707	61	6.6	7.2	7.0	7.1	6.6	5.5	5.6	7.0	6.8	6.5
* CAPITAN (DLFPS-321/3705)	59	6.6	7.2	7.0	7.1	6.5	5.4	5.6	6.9	6.9	6.5
DLFPS-321/3695	5	6.5	7.1	7.0	7.1	6.8	5.4	5.5	7.0	6.8	6.5
* SYMPHONY (PPG-TF 305)	77	6.5	7.2	7.0	7.1	6.7	5.4	5.6	7.0	6.8	6.5
* ZION (BAR TF 134)	63	6.6	7.2	7.0	7.1	6.5	5.5	5.6	6.9	6.8	6.5
* DEGAS (LTP-TF-111)	30	6.5	7.2	7.1	7.1	6.7	5.4	5.6	7.0	6.8	6.5
RAD-TF105	113	6.2	6.8	6.8	6.8	6.6	5.0	5.2	6.8	6.5	6.5
* DYNAMITE G-LS (PPG-TF 254)	82	6.5	7.2	6.9	7.1	6.6	5.5	5.5	6.9	6.8	6.5
K18-WB1	71	6.5	7.2	7.0	7.1	6.7	5.4	5.5	7.0	6.8	6.5
DLFPS-321/3706	60	6.5	7.1	7.0	7.1	6.8	5.3	5.5	7.0	6.8	6.5
ESTRENA	122	6.2	6.8	6.6	6.8	6.5	5.1	5.1	6.7	6.4	6.5
PPG-TF 249	66	6.5	7.1	7.0	7.1	6.7	5.4	5.5	7.0	6.7	6.5
* GALLARDO (DLFPS-TF/3550)	13	6.5	7.2	6.9	7.1	6.6	5.4	5.5	6.9	6.8	6.5
FIERCE (K18-RS6)	70	6.5	7.2	7.0	7.0	6.5	5.4	5.6	6.9	6.8	6.5
* BONFIRE (JS DTT)	24	6.5	7.2	7.0	7.0	6.6	5.3	5.6	6.9	6.8	6.5
* ROWDIER (DLFPS-321/3699)	20	6.4	7.0	7.1	7.1	6.9	5.3	5.5	7.0	6.7	6.5
* KIZZLE (K18-ROE)	31	6.4	7.0	7.0	7.1	6.8	5.3	5.5	7.0	6.7	6.5
* ESSENTIAL 2 (DLFPS-TF/3552)	14	6.5	7.2	6.9	7.0	6.6	5.4	5.5	6.9	6.7	6.4
RS1	9	6.5	7.1	7.0	7.0	6.6	5.4	5.5	6.9	6.8	6.4
RDC	25	6.5	7.2	6.9	7.0	6.5	5.4	5.5	6.9	6.7	6.4
* RACEWAY (DLFPS-321/3696)	19	6.4	7.0	6.9	7.1	6.8	5.3	5.4	7.0	6.7	6.4
TYCOON (COL-TF-148)	28	6.5	7.2	6.9	7.0	6.5	5.4	5.5	6.9	6.7	6.4
SETFM3	111	6.1	6.7	7.0	6.9	6.9	4.8	5.3	6.9	6.5	6.4
* PARAMOUNT	2	6.4	7.0	6.9	7.1	6.8	5.3	5.4	7.0	6.7	6.4
DLFPS-321/3693	3	6.5	7.1	6.9	7.0	6.6	5.4	5.4	6.9	6.7	6.4
FINELAWN SUPREME (RH3)	73	6.5	7.2	6.8	7.0	6.5	5.4	5.5	6.9	6.7	6.4
* STEALTH (PPG-TF 238)	81	6.5	7.1	6.9	7.0	6.6	5.4	5.5	6.9	6.7	6.4
NT-3	8	6.4	7.1	7.0	7.0	6.6	5.3	5.5	6.9	6.7	6.4
RC4	79	6.5	7.1	6.9	7.0	6.5	5.4	5.5	6.9	6.7	6.4
5LSS	10	6.5	7.1	6.8	7.0	6.5	5.4	5.4	6.9	6.7	6.4
* SR 8700 (TMT1)	6	6.4	7.1	7.0	7.0	6.6	5.2	5.5	6.9	6.7	6.4
* OKEEFE (LTP-TF-122)	29	6.4	7.1	6.8	7.0	6.6	5.4	5.4	6.9	6.7	6.4
DLFPS-321/3703	36	6.4	7.0	6.9	7.1	6.9	5.3	5.3	7.0	6.6	6.4
* BENTLEY (DLFPS-321/3679)	16	6.4	7.0	7.0	7.0	6.8	5.2	5.4	7.0	6.6	6.4
K18-NSE	32	6.5	7.1	6.8	7.0	6.5	5.5	5.4	6.9	6.6	6.4
* ENDGAME (3N1)	53	6.3	6.9	7.0	7.0	6.9	5.1	5.4	7.0	6.6	6.4
* PADRE 2	56	6.4	7.0	6.9	7.0	6.7	5.2	5.4	6.9	6.6	6.3
EXTRAVAGANZA (PST-5MCMO)	39	6.3	6.9	7.1	6.9	6.7	5.0	5.4	6.9	6.7	6.3
LAFAYETTE (GO-AOMK)	101	6.0	6.6	6.7	6.8	6.7	4.8	5.1	6.8	6.3	6.3
JT 517	23	6.2	6.7	7.1	7.0	7.1	4.9	5.3	7.1	6.5	6.3
DLFPS-321/3694	4	6.3	6.9	6.9	7.0	6.7	5.2	5.3	6.9	6.6	6.3
* BULLSEYE	93	6.1	6.6	7.0	6.8	6.9	4.7	5.2	6.9	6.4	6.3
GLX REVIVE (PST-5GLBS)	49	6.2	6.9	7.1	6.9	6.7	4.9	5.4	6.9	6.7	6.3
JT 233	74	6.3	7.0	6.8	6.9	6.5	5.3	5.3	6.8	6.6	6.3

TABLE 9.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2021 DATA  
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	ENTRY #	VA1	DE1	TN1	MI1	IA1	MO1	OK1	NE1	UT1	MEAN
* GRO-PRO (SE53D2)	106	6.0	6.6	6.8	6.7	6.6	4.7	5.1	6.7	6.4	6.3
* GLX ACED (PST-5DART)	50	6.3	6.9	6.9	6.8	6.5	5.1	5.3	6.8	6.6	6.3
* LIFEGUARD	44	6.2	6.8	7.0	6.9	6.7	4.9	5.3	6.9	6.5	6.3
PST-5GQ	38	6.2	6.8	6.9	6.8	6.6	5.0	5.3	6.8	6.6	6.2
* AST8118LM	123	6.0	6.5	6.9	6.8	6.9	4.7	5.1	6.9	6.3	6.2
* GRANDE 3	21	6.2	6.8	7.0	6.8	6.7	4.9	5.3	6.9	6.5	6.2
PST-5TRN	37	6.2	6.8	6.9	6.8	6.7	4.9	5.3	6.8	6.6	6.2
SETFM2	110	6.0	6.5	6.9	6.8	6.9	4.7	5.1	6.9	6.3	6.2
HELLCAT GLR (PST-5E6)	41	6.2	6.9	6.9	6.8	6.5	5.0	5.3	6.8	6.6	6.2
* BIRMINGHAM	100	5.9	6.5	6.7	6.7	6.7	4.7	5.0	6.7	6.2	6.2
SE5STAR	107	5.9	6.5	6.7	6.6	6.6	4.7	5.0	6.7	6.2	6.2
* BANDIT	54	6.0	6.5	7.0	6.9	7.1	4.7	5.2	7.0	6.4	6.2
RAD-TF131	114	5.9	6.5	6.8	6.7	6.9	4.6	5.0	6.9	6.2	6.2
A-TF31	125	5.9	6.5	6.7	6.6	6.6	4.7	5.0	6.7	6.2	6.2
PST-5DZM	48	6.1	6.7	6.9	6.8	6.8	4.8	5.2	6.9	6.4	6.2
* TANGO	52	6.1	6.7	6.9	6.8	6.8	4.8	5.2	6.9	6.4	6.2
ORIOLE (PST-5BYOB)	43	6.1	6.7	6.9	6.8	6.6	4.9	5.3	6.8	6.5	6.2
* AST8218LM	124	5.9	6.4	6.9	6.7	6.9	4.5	5.1	6.8	6.3	6.2
ATF2116	7	6.0	6.6	7.1	6.8	6.9	4.6	5.2	6.9	6.5	6.2
LBF	17	6.1	6.6	7.0	6.8	6.9	4.7	5.2	6.9	6.4	6.2
PST-5DC24	51	6.1	6.6	7.0	6.8	6.8	4.8	5.2	6.9	6.4	6.2
* BRAVO 2	57	6.1	6.7	6.8	6.8	6.8	4.9	5.1	6.8	6.4	6.2
* NATURALLY GREEN	1	6.0	6.5	7.0	6.8	7.0	4.6	5.2	7.0	6.4	6.2
ATF1768	12	6.1	6.7	7.0	6.8	6.7	4.8	5.2	6.8	6.5	6.2
* FAYETTE	22	6.1	6.7	6.7	6.8	6.6	5.0	5.1	6.8	6.4	6.2
TAR HEEL III (PST-5THM)	42	6.0	6.6	7.0	6.7	6.7	4.7	5.2	6.8	6.5	6.1
NAI-FQZ-17	58	6.0	6.6	6.9	6.8	6.9	4.7	5.1	6.9	6.3	6.1
* MOONDANCE GLX	46	6.0	6.6	6.9	6.7	6.7	4.7	5.2	6.8	6.4	6.1
BAR-FA8230	64	5.9	6.4	7.1	6.7	7.0	4.4	5.1	6.9	6.4	6.1
* COPIOUS TF	55	6.0	6.6	6.8	6.7	6.8	4.8	5.1	6.8	6.3	6.1
RAD-TF115 (TURBO SS)	97	5.9	6.4	6.8	6.6	6.8	4.5	4.9	6.8	6.2	6.1
* PRO GOLD	40	6.0	6.6	6.8	6.7	6.6	4.8	5.1	6.7	6.4	6.1
PST-5MINK	45	6.0	6.5	6.8	6.7	6.8	4.7	5.1	6.8	6.3	6.1
TOPSHELF (BGR-TF3)	11	5.9	6.5	6.8	6.7	6.8	4.6	5.0	6.8	6.3	6.1
* ESCALADE	127	5.8	6.3	6.9	6.6	6.9	4.4	5.0	6.8	6.2	6.1
* MONUMENT (PST-5SQB)	47	5.9	6.5	6.7	6.6	6.5	4.6	5.0	6.6	6.3	6.0
* GRAND PRIX (FC15-01P)	131	5.7	6.2	6.7	6.4	6.5	4.3	4.8	6.5	6.1	6.0
BARNOBLE (BAR 9FE MAS)	26	5.7	6.2	6.9	6.6	6.9	4.3	4.9	6.8	6.2	5.9
BAR FA 8228	27	5.7	6.2	6.9	6.5	6.8	4.2	4.9	6.7	6.2	5.9
* PALOMAR	126	5.6	6.1	6.8	6.4	6.7	4.2	4.8	6.6	6.1	5.9
* OG-WALK	128	5.6	6.1	6.9	6.4	6.8	4.1	4.8	6.7	6.1	5.9
* KENTUCKY-31	132	4.5	5.0	5.9	5.3	5.7	2.9	3.8	5.6	5.0	4.7
LSD VALUE		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
C.V. (%)		7.2	6.6	6.5	6.5	6.8	8.9	8.5	6.6	6.9	7.1

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

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

TABLE 10.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2021 DATA

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

NAME	ENTRY #	CT1	NJ2	MD1	NC1	GA1	MS1	IN1	KS1	MEAN
TITAN GLX (TF445)	129	6.5	6.9	7.0	6.1	6.5	4.0	6.2	4.6	6.7
SPYDER 2LS (ZRC1)	89	6.5	6.6	7.0	5.7	6.5	3.8	6.1	4.3	6.6
RAPTOR LS (PPG-TF 336)	87	6.5	6.4	7.0	5.4	6.4	3.6	6.0	4.1	6.4
SERENADE (PPG-TF 320)	119	6.4	6.4	6.9	5.8	6.5	3.8	6.1	4.4	6.4
RHL2	115	6.5	6.3	7.0	5.5	6.5	3.7	6.1	4.2	6.4
DAYBREAK (AH2)	69	6.6	7.3	7.1	6.3	6.6	4.2	6.3	4.7	6.4
TITANIUM G-LS (PPG-TF 255)	84	6.5	6.2	7.0	5.8	6.5	3.9	6.1	4.5	6.3
PROVIDENCE (GO-RH20)	99	6.4	6.2	6.9	5.7	6.5	3.8	6.1	4.3	6.3
GALACTIC (SESCR1)	108	6.3	6.3	6.8	5.7	6.4	3.8	6.0	4.3	6.3
RHF	117	6.3	6.2	6.8	5.7	6.3	3.7	5.9	4.3	6.2
CAPITAN (DLFPS-321/3705)	59	6.5	7.0	7.0	6.2	6.5	4.1	6.2	4.7	6.2
FIRECRACKER G-LS (PPG-TF 315)	86	6.4	6.0	6.9	5.4	6.4	3.6	6.0	4.1	6.2
AVENGER III (PPG-TF 308)	83	6.4	6.0	6.9	5.5	6.5	3.7	6.0	4.2	6.2
BATTLE HAWK (NAI-ROS4)	103	6.4	6.0	6.8	5.4	6.4	3.6	5.9	4.1	6.2
FIERCE (K18-RS6)	70	6.5	6.9	7.0	6.0	6.5	4.0	6.1	4.5	6.1
CLASH (AH1)	65	6.6	6.9	7.1	5.7	6.5	3.8	6.2	4.3	6.1
TITAN MAX (TF456)	130	6.2	6.0	6.8	5.7	6.4	3.7	5.9	4.3	6.1
TRIAD (PPG-TF 323)	120	6.4	5.8	6.9	5.5	6.5	3.7	6.0	4.2	6.1
TEACHER (PPG-TF 313)	118	6.4	5.8	6.9	5.3	6.4	3.6	6.0	4.1	6.1
ZION (BAR TF 134)	63	6.5	6.8	7.0	5.9	6.5	3.9	6.1	4.5	6.1
NAI-ST5	105	6.3	5.9	6.8	5.5	6.4	3.7	5.9	4.2	6.1
EXPANSE (PPG-TF 262)	67	6.6	6.5	7.1	5.7	6.6	3.8	6.2	4.4	6.1
TANK (PPG-TF 338)	121	6.4	5.8	6.9	5.2	6.4	3.5	5.9	4.0	6.1
ROVER (PPG-TF 306)	91	6.3	5.8	6.8	5.3	6.4	3.5	5.9	4.1	6.0
PPG-TF 312	85	6.2	5.8	6.7	4.9	6.1	3.2	5.7	3.7	6.0
FIRENZA II (PPG-TF 244)	76	6.4	6.5	6.9	5.9	6.5	3.9	6.1	4.4	6.0
BULLSEYE LTZ	96	6.3	5.7	6.8	5.3	6.4	3.5	5.9	4.0	6.0
BONFIRE (JS DTT)	24	6.4	6.5	6.9	6.0	6.4	3.9	6.1	4.5	6.0
TD2	18	6.4	6.4	6.9	5.9	6.5	3.9	6.1	4.4	6.0
PPG-TF 337	88	6.3	5.7	6.9	5.5	6.4	3.7	5.9	4.2	6.0
PPG-TF 318	92	6.1	5.9	6.6	5.8	6.3	3.8	5.8	4.4	6.0
XANADU (JT 268)	75	6.4	6.3	6.9	5.8	6.5	3.9	6.1	4.4	6.0
TYCOON (COL-TF-148)	28	6.4	6.5	6.9	5.6	6.4	3.7	6.0	4.2	5.9
DLFPS-321/3707	61	6.4	6.4	6.9	5.6	6.4	3.7	6.0	4.3	5.9
GALLARDO (DLFPS-TF/3550)	13	6.4	6.4	6.9	5.6	6.4	3.7	6.0	4.2	5.9
DRAGSTER	98	6.1	5.7	6.7	5.6	6.3	3.7	5.8	4.2	5.9
DYNAMITE G-LS (PPG-TF 254)	82	6.4	6.3	6.9	5.5	6.4	3.7	6.0	4.2	5.9
GEM (PPG-TF 316)	78	6.4	6.1	6.9	5.5	6.5	3.7	6.0	4.2	5.9
FINELAWN SUPREME (RH3)	73	6.4	6.3	6.9	5.4	6.4	3.6	6.0	4.1	5.9
RS1	9	6.3	6.2	6.8	5.6	6.4	3.7	6.0	4.2	5.9
DEGAS (LTP-TF-111)	30	6.3	6.0	6.8	5.6	6.4	3.7	6.0	4.3	5.8
RDC	25	6.4	6.2	6.9	5.4	6.4	3.6	5.9	4.1	5.8
SYMPHONY (PPG-TF 305)	77	6.3	6.0	6.8	5.5	6.4	3.7	6.0	4.2	5.8
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.4	6.1	6.9	5.4	6.4	3.6	5.9	4.1	5.8
FALCON SUPREME (RH1)	72	6.3	5.8	6.8	5.5	6.4	3.7	6.0	4.2	5.8
NT-3	8	6.3	6.0	6.8	5.6	6.3	3.7	5.9	4.2	5.8



TABLE 10.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2021 DATA

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

NAME	ENTRY #	CT1	NJ2	MD1	NC1	GA1	MS1	IN1	KS1	MEAN
K18-WB1	71	6.4	6.0	6.9	5.4	6.4	3.6	5.9	4.1	5.8
SR 8700 (TMT1)	6	6.2	6.0	6.7	5.6	6.3	3.7	5.9	4.2	5.8
SOUTHSIDE (PPG-TF 267)	68	6.5	5.8	6.9	5.3	6.4	3.5	6.0	4.1	5.8
STEALTH (PPG-TF 238)	81	6.3	6.1	6.8	5.4	6.3	3.6	5.9	4.1	5.8
FASTLANE (BY-TF-169)	33	6.4	5.8	6.9	5.4	6.4	3.6	5.9	4.1	5.8
5LSS	10	6.4	6.1	6.9	5.2	6.3	3.4	5.9	3.9	5.7
RC4	79	6.3	6.1	6.8	5.3	6.3	3.5	5.9	4.0	5.7
DLFPS-321/3708	62	6.3	5.7	6.9	5.3	6.4	3.6	5.9	4.1	5.7
HELLCAT GLR (PST-5E6)	41	6.0	6.0	6.5	5.8	6.2	3.8	5.8	4.3	5.7
PPG-TF 249	66	6.3	5.7	6.8	5.2	6.3	3.5	5.9	4.0	5.7
GLX REVIVE (PST-5GLBS)	49	5.9	5.5	6.5	5.9	6.2	3.9	5.7	4.4	5.7
GLX ACED (PST-5DART)	50	6.1	5.9	6.6	5.6	6.2	3.6	5.8	4.2	5.7
DLFPS-TF/3553	15	6.4	5.6	6.8	5.1	6.4	3.4	5.9	4.0	5.7
DLFPS-321/3706	60	6.2	5.5	6.8	5.3	6.3	3.5	5.8	4.1	5.6
VALSETZ (PPG-TF 257)	80	6.3	5.5	6.8	5.2	6.3	3.5	5.8	4.0	5.6
EXTRAVAGANZA (PST-5MCMO)	39	6.0	5.5	6.5	5.7	6.2	3.8	5.7	4.3	5.6
DLFPS-321/3695	5	6.3	5.5	6.8	5.2	6.3	3.4	5.8	4.0	5.6
HOUND DOG NINE (DLFPS-321/3702)	35	6.5	5.6	6.9	4.9	6.4	3.3	5.9	3.8	5.6
BLADERUNNER 3 (DLFPS-321/3701)	34	6.3	5.5	6.8	5.1	6.4	3.4	5.9	3.9	5.6
DLFPS-321/3693	3	6.3	5.7	6.8	5.1	6.3	3.4	5.8	3.9	5.6
OKEEFE (LTP-TF-122)	29	6.3	5.7	6.8	5.0	6.3	3.3	5.8	3.8	5.6
TALLADEGA II (NAI-3N2)	102	6.1	5.1	6.6	4.7	6.1	3.1	5.6	3.6	5.6
KIZZLE (K18-ROE)	31	6.2	5.3	6.7	5.3	6.3	3.5	5.8	4.1	5.6
K18-NSE	32	6.3	5.7	6.8	4.8	6.2	3.2	5.8	3.7	5.6
ROWDIER (DLFPS-321/3699)	20	6.2	5.2	6.7	5.2	6.3	3.5	5.8	4.0	5.5
HEMI	95	6.0	5.0	6.6	5.2	6.2	3.4	5.7	4.0	5.5
PST-5GQ	38	5.9	5.3	6.5	5.4	6.1	3.5	5.6	4.1	5.5
JT 233	74	6.2	5.5	6.7	5.0	6.2	3.2	5.7	3.8	5.5
PST-5TRN	37	5.9	5.3	6.4	5.4	6.1	3.5	5.6	4.1	5.5
PPG-TF 231	90	6.2	4.8	6.7	4.5	6.1	3.0	5.6	3.5	5.5
RAD-TF105	113	5.9	5.0	6.4	5.0	6.0	3.3	5.5	3.8	5.5
RAPTOR III	116	6.0	4.9	6.6	5.1	6.2	3.4	5.6	3.9	5.5
FIREHAWK SLT	94	6.0	4.8	6.6	5.1	6.2	3.4	5.6	3.9	5.4
RACEWAY (DLFPS-321/3696)	19	6.2	5.1	6.7	4.9	6.2	3.2	5.7	3.8	5.4
PARAMOUNT	2	6.2	5.1	6.7	4.9	6.2	3.2	5.7	3.8	5.4
BENTLEY (DLFPS-321/3679)	16	6.1	5.0	6.6	5.0	6.2	3.3	5.7	3.9	5.4
ORIOLE (PST-5BYOB)	43	5.8	5.2	6.4	5.4	6.1	3.5	5.6	4.1	5.4
TAR HEEL III (PST-5THM)	42	5.7	5.0	6.2	5.7	6.0	3.7	5.5	4.3	5.4
PADRE 2	56	6.1	5.1	6.6	4.9	6.2	3.2	5.6	3.8	5.4
GRANDE 3	21	5.8	5.0	6.4	5.4	6.1	3.5	5.6	4.1	5.4
LIFEGUARD	44	5.8	4.9	6.4	5.3	6.1	3.5	5.5	4.0	5.4
3B2	112	5.9	4.8	6.5	5.1	6.1	3.3	5.6	3.9	5.3
ATF1768	12	5.7	4.9	6.3	5.4	6.0	3.5	5.5	4.1	5.3
DLFPS-321/3694	4	6.0	4.9	6.5	4.8	6.1	3.2	5.6	3.7	5.3
ESTRENA	122	5.9	4.7	6.4	4.3	5.9	2.8	5.4	3.3	5.3
FAIRFIELD (SETF104)	109	5.9	4.6	6.4	4.9	6.1	3.2	5.5	3.8	5.3

TABLE 10.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2021 DATA

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

NAME	ENTRY #	CT1	NJ2	MD1	NC1	GA1	MS1	IN1	KS1	MEAN
MOONDANCE GLX	46	5.7	4.7	6.2	5.3	6.0	3.4	5.4	4.0	5.2
ENDGAME (3N1)	53	6.0	4.4	6.5	4.8	6.1	3.2	5.5	3.7	5.2
GRO-PRO (SE53D2)	106	5.7	4.8	6.2	5.1	5.9	3.3	5.4	3.9	5.2
ATF2116	7	5.5	4.2	6.1	5.4	6.0	3.5	5.4	4.1	5.2
TOUGH (NAI-TUE)	104	5.9	4.4	6.4	5.1	6.1	3.4	5.5	3.9	5.2
PRO GOLD	40	5.7	4.7	6.2	5.0	5.9	3.2	5.4	3.8	5.2
PST-5DC24	51	5.7	4.4	6.2	5.1	6.0	3.3	5.4	3.9	5.1
MONUMENT (PST-5SQB)	47	5.6	4.7	6.1	5.1	5.8	3.2	5.3	3.8	5.1
PST-5DZM	48	5.7	4.4	6.3	4.9	6.0	3.2	5.4	3.8	5.1
DLFPS-321/3703	36	6.1	4.2	6.6	4.2	6.1	2.8	5.5	3.3	5.0
FAYETTE	22	5.8	4.5	6.3	4.5	5.9	2.9	5.3	3.4	5.0
TANGO	52	5.7	4.2	6.2	4.7	5.9	3.1	5.3	3.6	5.0
JT 517	23	5.7	3.7	6.3	4.8	6.0	3.2	5.3	3.8	5.0
SETFM3	111	5.7	4.2	6.3	5.0	6.0	3.3	5.4	3.8	5.0
LBF	17	5.6	3.9	6.2	4.8	5.9	3.1	5.3	3.7	5.0
PST-5MINK	45	5.5	4.0	6.1	4.7	5.8	3.0	5.2	3.6	4.9
BRAVO 2	57	5.7	3.9	6.2	4.5	5.9	2.9	5.2	3.5	4.9
BAR-FA8230	64	5.3	3.4	5.9	5.1	5.8	3.3	5.1	3.9	4.9
COPIOUS TF	55	5.6	3.8	6.1	4.5	5.8	2.9	5.2	3.4	4.8
NATURALLY GREEN	1	5.5	3.4	6.1	4.7	5.9	3.1	5.2	3.7	4.8
SE5STAR	107	5.5	4.1	6.1	4.6	5.8	2.9	5.2	3.5	4.8
TOPSHELF (BGR-TF3)	11	5.5	3.6	6.0	4.5	5.8	2.9	5.1	3.5	4.8
A-TF31	125	5.5	4.0	6.1	4.6	5.7	2.9	5.1	3.5	4.8
NAI-FQZ-17	58	5.6	3.5	6.1	4.4	5.8	2.8	5.1	3.4	4.8
LAFAYETTE (GO-AOMK)	101	5.6	3.8	6.2	4.2	5.8	2.7	5.2	3.3	4.7
BULLSEYE	93	5.6	3.9	6.1	4.8	5.9	3.1	5.3	3.7	4.7
BANDIT	54	5.5	3.1	6.1	4.4	5.8	2.9	5.1	3.5	4.7
BAR FA 8228	27	5.1	3.2	5.7	4.9	5.6	3.1	4.9	3.7	4.7
BARNOBLE (BAR 9FE MAS)	26	5.1	3.1	5.7	4.8	5.6	3.0	4.9	3.6	4.6
BIRMINGHAM	100	5.5	3.7	6.1	4.3	5.7	2.7	5.1	3.3	4.6
GRAND PRIX (FC15-01P)	131	5.2	3.8	5.8	4.7	5.6	2.9	5.0	3.5	4.5
SETFM2	110	5.5	3.3	6.0	4.4	5.8	2.8	5.1	3.4	4.4
AST8218LM	124	5.4	3.4	6.0	4.6	5.8	3.0	5.1	3.6	4.4
AST8118LM	123	5.5	3.2	6.0	4.3	5.8	2.8	5.0	3.3	4.3
RAD-TF115 (TURBO SS)	97	5.3	3.1	5.9	4.2	5.6	2.7	4.9	3.3	4.2
RAD-TF131	114	5.4	2.9	6.0	4.0	5.7	2.6	4.9	3.2	4.2
ESCALADE	127	5.2	3.1	5.8	4.7	5.7	3.0	4.9	3.6	4.1
PALOMAR	126	5.0	3.2	5.6	4.7	5.5	2.9	4.8	3.6	4.1
OG-WALK	128	5.0	3.0	5.6	4.8	5.5	3.0	4.8	3.6	4.0
KENTUCKY-31	132	3.8	2.1	4.5	4.1	4.5	2.2	3.8	2.8	2.9
LSD VALUE		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
C.V. (%)		7.5	8.7	6.9	8.7	7.4	13.3	8.0	11.5	8.3

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

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

TABLE 11. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2021 DATA

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

NAME	ENTRY #	PA2	NJ1	OR1	ON1	MEAN
HOUND DOG NINE (DLFPS-321/3702)	35	7.1	7.7	6.2	6.9	7.0
K18-NSE	32	6.9	7.7	6.0	6.7	6.8
SOUTHSIDE (PPG-TF 267)	68	7.0	7.1	6.1	6.9	6.8
PPG-TF 231	90	7.0	7.3	6.0	6.8	6.8
DLFPS-321/3703	36	7.0	7.2	6.0	6.8	6.8
EXPANSE (PPG-TF 262)	67	7.0	7.0	6.2	6.8	6.7
CLASH (AH1)	65	6.8	7.3	6.1	6.7	6.7
RAPTOR LS (PPG-TF 336)	87	6.8	7.2	6.0	6.7	6.7
BLADERUNNER 3 (DLFPS-321/3701)	34	7.0	6.9	6.1	6.8	6.7
5LSS	10	6.8	7.3	6.0	6.6	6.7
DLFPS-TF/3553	15	7.0	6.9	6.0	6.8	6.7
RHL2	115	6.9	7.1	6.1	6.7	6.7
OKEEFE (LTP-TF-122)	29	6.8	7.2	6.0	6.7	6.7
TANK (PPG-TF 338)	121	6.9	7.0	6.0	6.8	6.7
FIRECRACKER G-LS (PPG-TF 315)	86	6.9	6.9	6.0	6.7	6.6
GEM (PPG-TF 316)	78	6.9	6.8	6.0	6.7	6.6
TEACHER (PPG-TF 313)	118	7.0	6.8	6.1	6.8	6.6
PPG-TF 312	85	6.7	7.3	5.9	6.5	6.6
DLFPS-321/3695	5	6.9	6.7	6.0	6.7	6.6
FINELAWN SUPREME (RH3)	73	6.8	7.0	5.9	6.6	6.6
RACEWAY (DLFPS-321/3696)	19	6.9	6.8	5.9	6.7	6.6
RC4	79	6.8	7.0	5.9	6.6	6.6
DLFPS-321/3693	3	6.8	6.9	5.9	6.7	6.6
SPYDER 2LS (ZRC1)	89	6.8	6.9	6.0	6.7	6.6
DYNAMITE G-LS (PPG-TF 254)	82	6.8	6.8	6.0	6.7	6.6
DLFPS-321/3708	62	6.9	6.6	6.0	6.7	6.6
PPG-TF 249	66	6.9	6.7	6.0	6.7	6.6
K18-WB1	71	6.8	6.8	6.0	6.7	6.6
RDC	25	6.8	6.9	5.9	6.6	6.6
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.8	6.8	6.0	6.6	6.6
FASTLANE (BY-TF-169)	33	6.9	6.6	6.0	6.7	6.5
PARAMOUNT	2	6.9	6.7	5.9	6.7	6.5
DLFPS-321/3707	61	6.8	6.7	6.0	6.7	6.5
BULLSEYE LTZ	96	6.9	6.7	6.0	6.7	6.5
GALLARDO (DLFPS-TF/3550)	13	6.8	6.8	6.0	6.6	6.5
AVENGER III (PPG-TF 308)	83	6.9	6.6	6.1	6.8	6.5
TALLADEGA II (NAI-3N2)	102	6.8	6.9	5.9	6.6	6.5
ROVER (PPG-TF 306)	91	6.9	6.7	6.0	6.7	6.5
TYCOON (COL-TF-148)	28	6.7	6.8	5.9	6.6	6.5
VALSETZ (PPG-TF 257)	80	6.9	6.4	6.0	6.7	6.5
STEALTH (PPG-TF 238)	81	6.8	6.7	5.9	6.6	6.5
JT 233	74	6.7	6.8	5.8	6.6	6.5
ESTRENA	122	6.7	7.0	5.7	6.5	6.5
BATTLE HAWK (NAI-ROS4)	103	6.8	6.7	6.0	6.7	6.5
TRIAD (PPG-TF 323)	120	6.9	6.5	6.0	6.8	6.5
DAYBREAK (AH2)	69	6.7	6.5	6.0	6.6	6.5

TABLE 11.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2021 DATA

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

NAME	ENTRY #	PA2	NJ1	OR1	ON1	MEAN
SYMPHONY (PPG-TF 305)	77	6.8	6.4	5.9	6.7	6.4
PROVIDENCE (GO-RH20)	99	6.8	6.5	6.0	6.7	6.4
PADRE 2	56	6.8	6.5	5.8	6.6	6.4
DLFPS-321/3706	60	6.8	6.3	5.9	6.7	6.4
ZION (BAR TF 134)	63	6.7	6.4	5.9	6.6	6.4
FALCON SUPREME (RH1)	72	6.8	6.2	5.9	6.7	6.4
RS1	9	6.7	6.5	5.9	6.6	6.4
SERENADE (PPG-TF 320)	119	6.8	6.4	6.0	6.7	6.4
PPG-TF 337	88	6.9	6.3	6.0	6.8	6.4
TD2	18	6.8	6.2	6.0	6.6	6.4
DEGAS (LTP-TF-111)	30	6.8	6.2	5.9	6.6	6.4
FIRENZA II (PPG-TF 244)	76	6.7	6.2	5.9	6.6	6.4
DLFPS-321/3694	4	6.8	6.3	5.8	6.6	6.4
TITANIUM G-LS (PPG-TF 255)	84	6.9	6.2	6.0	6.7	6.4
ROWDIER (DLFPS-321/3699)	20	6.8	6.0	5.9	6.7	6.4
KIZZLE (K18-ROE)	31	6.8	6.0	5.9	6.6	6.3
BENTLEY (DLFPS-321/3679)	16	6.8	6.1	5.8	6.6	6.3
XANADU (JT 268)	75	6.8	6.0	5.9	6.6	6.3
FIERCE (K18-RS6)	70	6.6	6.2	5.9	6.5	6.3
NAI-ST5	105	6.8	6.2	5.9	6.7	6.3
ENDGAME (3N1)	53	6.8	5.9	5.8	6.7	6.3
NT-3	8	6.7	6.1	5.8	6.5	6.3
FAYETTE	22	6.6	6.3	5.7	6.5	6.3
CAPITAN (DLFPS-321/3705)	59	6.6	6.0	5.9	6.5	6.2
GALACTIC (SESCR1)	108	6.7	6.2	5.8	6.5	6.2
TITAN GLX (TF445)	129	6.7	6.1	5.9	6.5	6.2
BONFIRE (JS DTT)	24	6.6	5.9	5.8	6.5	6.2
SR 8700 (TMT1)	6	6.7	5.9	5.8	6.5	6.2
RHF	117	6.6	6.0	5.8	6.5	6.1
FIREHAWK SLT	94	6.8	5.8	5.8	6.7	6.1
TITAN MAX (TF456)	130	6.7	5.9	5.8	6.5	6.1
RAPTOR III	116	6.8	5.7	5.8	6.6	6.1
HEMI	95	6.8	5.7	5.8	6.6	6.1
BRAVO 2	57	6.6	5.5	5.6	6.5	6.1
LAFAYETTE (GO-AOMK)	101	6.6	5.8	5.6	6.5	6.0
GLX ACED (PST-5DART)	50	6.5	5.5	5.6	6.3	6.0
3B2	112	6.7	5.5	5.7	6.5	6.0
DRAGSTER	98	6.6	5.5	5.7	6.5	5.9
TANGO	52	6.6	5.2	5.5	6.4	5.9
FAIRFIELD (SETF104)	109	6.7	5.5	5.7	6.5	5.9
RAD-TF105	113	6.5	5.7	5.6	6.4	5.9
COPIOUS TF	55	6.6	5.3	5.5	6.4	5.9
NAI-FQZ-17	58	6.6	5.1	5.5	6.4	5.9
PST-5GQ	38	6.5	5.2	5.6	6.4	5.9
JT 517	23	6.7	4.7	5.6	6.6	5.9
PST-5DZM	48	6.5	5.0	5.5	6.4	5.9

TABLE 11. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2021 DATA

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

NAME	ENTRY #	PA2	NJ1	OR1	ON1	MEAN
PST-5TRN	37	6.5	5.0	5.5	6.3	5.8
LIFEGUARD	44	6.5	4.8	5.5	6.4	5.8
EXTRAVAGANZA (PST-5MCMO)	39	6.5	4.7	5.6	6.4	5.8
TOUGH (NAI-TUE)	104	6.7	5.0	5.7	6.6	5.8
BANDIT	54	6.7	4.5	5.5	6.5	5.8
GRANDE 3	21	6.5	4.7	5.5	6.4	5.8
HELLCAT GLR (PST-5E6)	41	6.4	4.9	5.5	6.2	5.8
BIRMINGHAM	100	6.5	5.3	5.4	6.3	5.8
PRO GOLD	40	6.4	4.9	5.4	6.3	5.8
ORIOLE (PST-5BYOB)	43	6.4	4.8	5.5	6.3	5.8
LBF	17	6.5	4.6	5.5	6.4	5.7
RAD-TF131	114	6.6	5.1	5.5	6.5	5.7
PPG-TF 318	92	6.5	5.0	5.6	6.4	5.7
TOPSHELF (BGR-TF3)	11	6.5	4.6	5.4	6.3	5.7
PST-5MINK	45	6.4	4.6	5.4	6.3	5.7
PST-5DC24	51	6.5	4.5	5.4	6.3	5.7
AST8118LM	123	6.6	4.9	5.5	6.4	5.6
GLX REVIVE (PST-5GLBS)	49	6.4	4.3	5.5	6.3	5.6
SETFM3	111	6.6	4.7	5.5	6.4	5.6
NATURALLY GREEN	1	6.5	4.0	5.4	6.4	5.6
A-TF31	125	6.4	5.0	5.3	6.2	5.6
SETFM2	110	6.6	4.7	5.4	6.4	5.6
MONUMENT (PST-5SQB)	47	6.2	4.6	5.3	6.1	5.6
SE5STAR	107	6.4	4.9	5.4	6.2	5.6
ATF1768	12	6.4	4.2	5.4	6.2	5.5
MOONDANCE GLX	46	6.3	4.2	5.4	6.2	5.5
BULLSEYE	93	6.5	4.4	5.4	6.4	5.5
GRO-PRO (SE53D2)	106	6.3	4.6	5.4	6.2	5.4
RAD-TF115 (TURBO SS)	97	6.4	4.5	5.3	6.3	5.4
TAR HEEL III (PST-5THM)	42	6.3	3.6	5.3	6.2	5.3
ATF2116	7	6.4	3.3	5.3	6.2	5.3
AST8218LM	124	6.4	4.1	5.3	6.3	5.3
BAR-FA8230	64	6.4	3.0	5.2	6.2	5.2
BARNOBLE (BAR 9FE MAS)	26	6.2	2.9	5.1	6.1	5.1
GRAND PRIX (FC15-01P)	131	6.1	3.7	5.0	6.0	4.9
BAR FA 8228	27	6.1	2.7	5.0	6.0	4.9
ESCALADE	127	6.3	3.3	5.1	6.2	4.9
PALOMAR	126	6.0	2.8	4.9	5.9	4.6
OG-WALK	128	6.0	2.4	4.9	5.9	4.4
KENTUCKY-31	132	4.8	0.2	3.6	4.7	2.9
LSD VALUE		0.7	0.7	0.7	0.7	0.7
C.V. (%)		6.8	7.9	7.9	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 12.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2022 DATA

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

NAME	ENTRY #	CT1	NJ2	MD1	VA1	DE1	NC1	GA1	IN1	OK1	KS1	UT1	OR1	MEAN
* DAYBREAK (AH2)	69	6.9	7.4	7.8	6.8	7.1	7.0	8.0	6.5	5.8	4.8	7.2	6.5	7.3
* XANADU (JT 268)	75	6.8	6.8	7.7	6.7	7.0	6.6	7.9	6.3	5.7	4.4	7.1	6.4	7.1
* BONFIRE (JS DTT)	24	6.7	6.8	7.6	6.6	6.9	6.7	7.8	6.1	5.6	4.6	7.0	6.2	7.0
* FIRENZA II (PPG-TF 244)	76	6.7	6.8	7.6	6.6	6.9	6.6	7.8	6.2	5.6	4.3	7.0	6.3	7.0
* SOUTHSIDE (PPG-TF 267)	68	6.8	6.4	7.7	6.7	7.0	6.5	7.9	6.2	5.7	4.3	7.1	6.4	7.0
FIERCE (K18-RS6)	70	6.6	6.9	7.6	6.5	6.8	6.6	7.8	6.2	5.5	4.5	6.9	6.2	7.0
GEM (PPG-TF 316)	78	6.7	6.5	7.6	6.6	6.9	6.6	7.8	6.1	5.6	4.5	7.1	6.2	7.0
DLFPS-321/3707	61	6.7	6.7	7.6	6.6	6.9	6.6	7.8	6.1	5.5	4.5	7.0	6.2	7.0
* EXPANSE (PPG-TF 262)	67	6.8	6.3	7.7	6.7	6.9	6.4	7.8	6.2	5.7	4.2	7.1	6.4	7.0
* CLASH (AH1)	65	6.7	6.6	7.6	6.6	6.8	6.5	7.8	6.1	5.5	4.2	7.0	6.3	6.9
* CAPITAN (DLFPS-321/3705)	59	6.7	6.4	7.6	6.4	6.9	6.6	7.8	5.9	5.6	4.9	7.1	6.0	6.9
RS1	9	6.6	6.5	7.5	6.4	6.8	6.6	7.7	6.0	5.5	4.8	7.0	6.0	6.9
RC4	79	6.6	6.6	7.5	6.5	6.8	6.5	7.7	6.1	5.5	4.3	6.9	6.2	6.9
RHL2	115	6.7	7.1	7.7	6.6	6.9	6.8	7.9	6.2	5.6	4.6	7.0	6.3	6.9
5LSS	10	6.7	6.3	7.6	6.6	6.8	6.4	7.7	6.1	5.6	4.1	7.0	6.3	6.9
* DYNAMITE G-LS (PPG-TF 254)	82	6.7	6.2	7.6	6.5	6.9	6.4	7.8	6.0	5.6	4.5	7.1	6.1	6.9
* VALSETZ (PPG-TF 257)	80	6.7	6.2	7.6	6.5	6.8	6.5	7.7	6.0	5.6	4.5	7.1	6.1	6.9
TD2	18	6.7	6.1	7.6	6.5	6.9	6.5	7.7	6.0	5.6	4.5	7.1	6.1	6.9
RDC	25	6.6	6.5	7.5	6.5	6.8	6.4	7.7	6.0	5.5	4.2	6.9	6.2	6.9
* GALLARDO (DLFPS-TF/3550)	13	6.7	6.2	7.6	6.5	6.8	6.4	7.7	6.0	5.6	4.3	7.0	6.2	6.9
TYCOON (COL-TF-148)	28	6.7	6.1	7.6	6.5	6.9	6.4	7.7	6.0	5.6	4.4	7.1	6.2	6.8
* BLADERUNNER 3 (DLFPS-321/3701)	34	6.7	6.0	7.6	6.5	6.9	6.4	7.7	6.0	5.6	4.4	7.1	6.1	6.8
FINELAWN SUPREME (RH3)	73	6.6	6.3	7.6	6.6	6.8	6.3	7.7	6.1	5.5	3.9	6.9	6.3	6.8
* SYMPHONY (PPG-TF 305)	77	6.6	6.2	7.5	6.5	6.8	6.4	7.7	5.9	5.5	4.5	7.0	6.1	6.8
* ZION (BAR TF 134)	63	6.6	6.2	7.5	6.5	6.8	6.4	7.7	5.9	5.5	4.5	7.0	6.1	6.8
* FALCON SUPREME (RH1)	72	6.6	6.1	7.5	6.5	6.8	6.4	7.7	5.9	5.5	4.5	7.0	6.1	6.8
* DEGAS (LTP-TF-111)	30	6.7	6.0	7.5	6.5	6.8	6.4	7.7	5.9	5.6	4.5	7.0	6.1	6.8
DLFPS-321/3708	62	6.7	6.0	7.6	6.5	6.8	6.4	7.7	6.0	5.6	4.4	7.1	6.1	6.8
K18-WB1	71	6.6	6.3	7.5	6.5	6.8	6.4	7.7	6.0	5.5	4.3	6.9	6.1	6.8
DLFPS-TF/3553	15	6.7	5.9	7.6	6.5	6.8	6.4	7.7	5.9	5.6	4.4	7.1	6.1	6.8
K18-NSE	32	6.5	6.5	7.4	6.4	6.7	6.4	7.6	6.0	5.4	4.2	6.8	6.1	6.8
* HOUNDG NINE (DLFPS-321/3702)	35	6.6	6.1	7.5	6.4	6.8	6.4	7.7	5.9	5.5	4.5	7.0	6.0	6.8
* OKEEFE (LTP-TF-122)	29	6.6	6.1	7.5	6.5	6.8	6.3	7.7	6.0	5.5	4.2	7.0	6.1	6.8
* STEALTH (PPG-TF 238)	81	6.6	6.2	7.5	6.5	6.8	6.3	7.7	6.0	5.5	4.1	6.9	6.1	6.8
DLFPS-321/3693	3	6.7	5.9	7.6	6.5	6.8	6.3	7.7	6.0	5.6	4.1	7.0	6.2	6.8
* ESSENTIAL 2 (DLFPS-TF/3552)	14	6.6	6.3	7.5	6.4	6.7	6.4	7.6	5.9	5.4	4.4	6.9	6.0	6.8
PPG-TF 249	66	6.7	5.8	7.6	6.5	6.8	6.3	7.7	6.0	5.6	4.2	7.1	6.2	6.8
* TITAN GLX (TF445)	129	6.7	6.8	7.6	6.5	6.9	6.8	7.8	6.1	5.6	4.9	7.1	6.1	6.8
DLFPS-321/3695	5	6.6	6.0	7.5	6.4	6.7	6.3	7.6	5.8	5.5	4.4	7.0	6.0	6.7
NT-3	8	6.6	5.8	7.5	6.4	6.7	6.3	7.6	5.8	5.5	4.3	7.0	6.0	6.7
DLFPS-321/3706	60	6.6	5.8	7.5	6.4	6.7	6.2	7.6	5.9	5.5	4.1	7.0	6.0	6.7
* FASTLANE (BY-TF-169)	33	6.5	5.9	7.4	6.3	6.7	6.3	7.6	5.7	5.4	4.6	6.9	5.8	6.7
* HELLCAT GLR (PST-5E6)	41	6.4	6.0	7.3	6.2	6.6	6.4	7.5	5.6	5.3	4.8	6.8	5.7	6.6
* TITANIUM G-LS (PPG-TF 255)	84	6.7	6.5	7.6	6.6	6.9	6.6	7.8	6.1	5.6	4.7	7.1	6.2	6.6
* SR 8700 (TMT1)	6	6.5	5.7	7.4	6.3	6.7	6.2	7.5	5.7	5.4	4.5	6.9	5.8	6.6
* GALACTIC (SESCR1)	108	6.6	6.6	7.5	6.5	6.8	6.5	7.7	6.1	5.5	4.4	6.9	6.1	6.6
* GLX REVANZA (PST-5GLBS)	49	6.5	5.8	7.3	6.2	6.6	6.3	7.5	5.6	5.4	4.8	6.9	5.7	6.6
* EXTRAVAGANZA (PST-5MCMO)	39	6.5	5.8	7.3	6.2	6.6	6.3	7.5	5.6	5.3	4.8	6.9	5.6	6.6

TABLE 12.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2022 DATA

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

NAME	ENTRY #	CT1	NJ2	MD1	VA1	DE1	NC1	GA1	IN1	OK1	KS1	UT1	OR1	MEAN
* SPYDER 2LS (ZRC1)	89	6.7	6.5	7.6	6.6	6.9	6.5	7.8	6.1	5.6	4.4	7.0	6.3	6.6
RHF	117	6.7	6.5	7.6	6.5	6.8	6.5	7.7	6.1	5.5	4.4	7.0	6.2	6.6
DLFPS-321/3694	4	6.5	5.5	7.4	6.4	6.6	6.0	7.5	5.8	5.4	3.8	6.9	6.0	6.6
* GLX ACED (PST-5DART)	50	6.5	5.6	7.3	6.3	6.6	6.1	7.4	5.7	5.3	4.1	6.8	5.9	6.5
PST-5GQ	38	6.4	5.7	7.3	6.2	6.6	6.1	7.4	5.6	5.3	4.2	6.8	5.8	6.5
* RACEWAY (DLFPS-321/3696)	19	6.5	5.3	7.4	6.3	6.6	6.0	7.5	5.7	5.4	4.0	6.9	5.9	6.5
* ROVER (PPG-TF 306)	91	6.7	6.3	7.6	6.6	6.9	6.4	7.8	6.1	5.6	4.1	7.0	6.3	6.5
JT 233	74	6.5	5.5	7.3	6.3	6.6	5.9	7.4	5.8	5.3	3.6	6.8	6.0	6.5
* RAPTOR LS (PPG-TF 336)	87	6.7	6.3	7.6	6.6	6.8	6.4	7.7	6.1	5.6	4.2	7.0	6.2	6.5
* KIZZLE (K18-ROE)	31	6.6	5.1	7.4	6.3	6.6	6.0	7.5	5.6	5.4	4.2	7.0	5.8	6.5
PPG-TF 318	92	6.6	6.3	7.5	6.4	6.8	6.5	7.7	6.0	5.5	4.5	7.0	6.1	6.5
* PARAMOUNT	2	6.5	5.2	7.3	6.3	6.6	5.9	7.4	5.7	5.4	3.7	6.9	6.0	6.5
* BULLSEYE LTZ	96	6.7	6.2	7.6	6.6	6.9	6.3	7.8	6.1	5.6	4.0	7.0	6.3	6.5
* LIFEGUARD	44	6.5	5.4	7.3	6.2	6.6	6.1	7.4	5.5	5.3	4.4	6.9	5.7	6.5
* TRIAD (PPG-TF 323)	120	6.7	6.2	7.6	6.6	6.8	6.4	7.7	6.1	5.6	4.3	7.0	6.2	6.5
* BENTLEY (DLFPS-321/3679)	16	6.6	5.1	7.3	6.3	6.6	6.0	7.5	5.6	5.4	4.2	7.0	5.8	6.5
* PROVIDENCE (GO-RH20)	99	6.8	6.1	7.7	6.7	6.9	6.4	7.8	6.1	5.7	4.2	7.1	6.3	6.5
* AVENGER III (PPG-TF 308)	83	6.7	6.2	7.6	6.6	6.9	6.5	7.8	6.0	5.6	4.5	7.1	6.2	6.5
PST-5TRN	37	6.5	5.3	7.3	6.2	6.5	6.0	7.4	5.5	5.3	4.4	6.9	5.7	6.4
* ROWDIER (DLFPS-321/3699)	20	6.6	4.9	7.4	6.3	6.6	5.9	7.5	5.5	5.4	4.2	7.0	5.8	6.4
* TEACHER (PPG-TF 313)	118	6.7	6.1	7.6	6.5	6.8	6.4	7.7	6.0	5.6	4.4	7.1	6.1	6.4
* GRANDE 3	21	6.5	5.1	7.3	6.2	6.5	6.0	7.4	5.5	5.3	4.3	6.9	5.7	6.4
PPG-TF 337	88	6.7	6.1	7.6	6.5	6.8	6.4	7.7	6.0	5.6	4.4	7.1	6.2	6.4
* PADRE 2	56	6.5	4.9	7.3	6.3	6.6	5.7	7.4	5.6	5.4	3.7	6.9	5.9	6.4
PPG-TF 312	85	6.4	6.4	7.3	6.2	6.6	6.4	7.5	5.8	5.3	4.5	6.8	5.8	6.4
TAR HEEL III (PST-5THM)	42	6.4	5.1	7.2	6.0	6.5	6.1	7.4	5.3	5.3	4.7	6.9	5.5	6.4
* FIRECRACKER G-LS (PPG-TF 315)	86	6.6	6.1	7.5	6.5	6.8	6.4	7.7	5.9	5.5	4.4	7.0	6.1	6.4
* BATTLE HAWK (NAI-ROS4)	103	6.7	6.0	7.6	6.6	6.8	6.2	7.7	6.0	5.6	4.0	7.0	6.2	6.3
* DRAGSTER	98	6.6	6.0	7.5	6.4	6.7	6.4	7.6	5.8	5.5	4.6	7.0	6.0	6.3
* ENDGAME (3N1)	53	6.5	4.7	7.3	6.3	6.5	5.5	7.3	5.6	5.3	3.2	6.8	6.0	6.3
* SERENADE (PPG-TF 320)	119	6.7	5.9	7.6	6.6	6.8	6.3	7.7	6.0	5.6	4.2	7.1	6.2	6.3
PST-5DZM	48	6.5	4.6	7.2	6.1	6.5	5.7	7.3	5.4	5.3	4.0	6.9	5.6	6.3
DLFPS-321/3703	36	6.6	4.3	7.3	6.3	6.5	5.5	7.4	5.5	5.4	3.5	6.9	5.8	6.3
* TITAN MAX (TF456)	130	6.6	5.9	7.5	6.5	6.8	6.3	7.6	5.9	5.5	4.2	7.0	6.1	6.3
* TANK (PPG-TF 338)	121	6.7	5.8	7.5	6.5	6.8	6.2	7.6	5.9	5.5	4.0	7.0	6.1	6.2
ATF1768	12	6.3	4.7	7.1	6.0	6.4	5.8	7.2	5.2	5.2	4.2	6.8	5.4	6.2
NAI-ST5	105	6.7	5.7	7.5	6.5	6.8	6.2	7.6	5.9	5.5	4.0	7.0	6.1	6.2
ATF2116	7	6.4	4.3	7.1	5.9	6.4	5.7	7.2	5.1	5.2	4.3	6.8	5.3	6.1
JT 517	23	6.5	3.8	7.2	6.1	6.5	5.5	7.3	5.2	5.4	3.9	7.0	5.5	6.1
* ORIOLE (PST-5BYOB)	43	6.4	4.3	7.1	6.0	6.3	5.5	7.2	5.2	5.2	3.7	6.8	5.5	6.1
PST-5DC24	51	6.4	3.9	7.1	6.1	6.4	5.4	7.2	5.2	5.3	3.7	6.9	5.5	6.1
* MONUMENT (PST-5SQB)	47	6.2	4.6	7.0	5.9	6.2	5.5	7.1	5.2	5.0	3.7	6.6	5.4	6.1
* PRO GOLD	40	6.4	3.8	7.1	6.0	6.4	5.4	7.2	5.2	5.2	3.6	6.8	5.5	6.0
LBF	17	6.3	4.0	7.0	5.9	6.3	5.5	7.1	5.1	5.2	3.9	6.8	5.4	6.0
* MOONDANCE GLX	46	6.3	3.9	7.0	5.9	6.3	5.4	7.1	5.1	5.2	3.7	6.8	5.4	6.0
* FAIRFIELD (SETF104)	109	6.5	5.6	7.3	6.3	6.6	6.0	7.4	5.7	5.3	4.0	6.8	5.9	6.0
* TANGO	52	6.4	3.8	7.1	6.0	6.3	5.4	7.1	5.1	5.2	3.7	6.8	5.4	6.0

TABLE 12.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2022 DATA

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

NAME	ENTRY #	CT1	NJ2	MD1	VA1	DE1	NC1	GA1	IN1	OK1	KS1	UT1	OR1	MEAN
* RAPTOR III	116	6.6	5.3	7.4	6.4	6.7	6.1	7.6	5.7	5.5	4.2	7.0	5.9	6.0
* FAYETTE	22	6.3	4.0	7.0	6.0	6.3	5.2	7.1	5.2	5.1	3.1	6.7	5.6	6.0
* COPIOUS TF	55	6.2	4.1	7.0	5.9	6.2	5.3	7.1	5.1	5.1	3.5	6.6	5.4	6.0
* HEMI	95	6.5	5.4	7.3	6.3	6.6	6.0	7.5	5.7	5.4	4.1	6.9	5.8	6.0
RAD-TF105	113	6.5	5.5	7.3	6.3	6.6	6.0	7.4	5.7	5.3	4.0	6.8	5.9	6.0
PST-5MINK	45	6.2	4.1	6.9	5.9	6.2	5.3	7.0	5.1	5.1	3.4	6.6	5.4	5.9
BAR-FA8230	64	6.2	4.0	6.9	5.7	6.2	5.6	7.0	4.9	5.0	4.3	6.7	5.0	5.9
* FIREHAWK SLT	94	6.7	5.2	7.5	6.5	6.7	6.0	7.6	5.8	5.6	3.9	7.1	6.1	5.9
* TOPSHELF (BGR-TF3)	11	6.3	3.6	7.0	5.9	6.2	5.2	7.0	5.0	5.1	3.5	6.7	5.3	5.9
* NATURALLY GREEN	1	6.2	3.6	6.9	5.8	6.2	5.3	7.0	4.9	5.1	3.8	6.7	5.2	5.9
PPG-TF 231	90	6.7	5.0	7.5	6.5	6.7	5.8	7.6	5.8	5.6	3.6	7.0	6.1	5.8
* BRAVO 2	57	6.3	3.1	7.0	5.9	6.2	5.0	7.0	5.0	5.1	3.1	6.7	5.4	5.8
NAI-FQZ-17	58	6.2	3.4	6.9	5.8	6.1	5.1	6.9	4.9	5.0	3.4	6.6	5.3	5.8
* BANDIT	54	6.3	3.1	6.9	5.9	6.2	5.0	6.9	4.9	5.1	3.2	6.7	5.3	5.8
BAR FA 8228	27	6.0	3.4	6.7	5.5	6.0	5.2	6.8	4.6	4.8	4.0	6.5	4.8	5.6
3B2	112	6.5	4.7	7.3	6.3	6.5	5.7	7.4	5.5	5.4	3.8	6.9	5.8	5.6
ESTRENA	122	6.4	4.7	7.2	6.3	6.4	5.4	7.3	5.6	5.3	2.9	6.7	6.0	5.5
BARNOBLE (BAR 9FE MAS)	26	5.9	3.2	6.6	5.4	5.9	5.0	6.7	4.5	4.8	3.7	6.4	4.8	5.5
* GRO-PRO (SE53D2)	106	6.3	4.6	7.0	5.9	6.3	5.7	7.2	5.2	5.1	4.0	6.7	5.4	5.4
* TALLADEGA II (NAI-3N2)	102	6.5	4.4	7.3	6.3	6.5	5.5	7.3	5.5	5.4	3.4	6.9	5.8	5.4
SETFM3	111	6.4	4.3	7.2	6.1	6.4	5.6	7.3	5.3	5.3	3.8	6.8	5.6	5.4
* TOUGH (NAI-TUE)	104	6.3	4.2	7.0	6.0	6.3	5.4	7.1	5.2	5.2	3.6	6.7	5.5	5.2
* BULLSEYE	93	6.3	3.9	7.0	5.9	6.2	5.3	7.0	5.1	5.1	3.5	6.7	5.4	5.1
RAD-TF115 (TURBO SS)	97	6.1	4.0	6.9	5.8	6.1	5.2	7.0	5.1	5.0	3.3	6.5	5.4	5.1
* LAFAYETTE (GO-AOMK)	101	6.4	3.7	7.1	6.1	6.3	5.2	7.1	5.3	5.3	3.1	6.8	5.7	5.1
RAD-TF131	114	6.2	3.8	6.9	5.8	6.2	5.2	7.0	5.0	5.0	3.4	6.6	5.4	5.0
SETFM2	110	6.3	3.8	7.0	5.9	6.2	5.2	7.0	5.1	5.1	3.4	6.7	5.4	5.0
SESSTAR	107	6.2	3.7	6.9	5.8	6.2	5.2	7.0	5.0	5.0	3.5	6.6	5.3	4.9
A-TF31	125	6.3	3.6	7.0	5.9	6.2	5.1	7.0	5.1	5.1	3.1	6.7	5.5	4.9
* GRAND PRIX (FC15-01P)	131	6.0	3.8	6.7	5.6	6.0	5.2	6.8	4.8	4.9	3.5	6.5	5.1	4.9
* AST8218LM	124	6.2	3.5	6.8	5.8	6.1	5.1	6.9	4.9	5.0	3.4	6.6	5.2	4.8
* BIRMINGHAM	100	6.1	3.5	6.8	5.8	6.1	5.0	6.9	4.9	5.0	3.1	6.5	5.3	4.8
* AST8118LM	123	6.3	3.0	6.9	5.9	6.2	4.9	6.9	4.9	5.1	3.0	6.7	5.4	4.6
* ESCALADE	127	6.0	3.1	6.7	5.5	6.0	5.0	6.7	4.6	4.9	3.6	6.5	4.9	4.5
* PALOMAR	126	5.9	3.0	6.5	5.4	5.8	4.9	6.6	4.4	4.7	3.7	6.4	4.7	4.5
* OG-WALK	128	5.9	2.6	6.5	5.4	5.8	4.7	6.6	4.4	4.7	3.4	6.4	4.7	4.3
* KENTUCKY-31	132	4.9	1.3	5.4	4.1	4.8	3.9	5.5	3.1	3.7	3.2	5.5	3.3	3.1
LSD VALUE		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)		7.5	9.2	6.6	7.8	7.4	8.1	6.5	8.6	9.0	12.0	7.1	8.3	7.8

\* COMMERCIALY AVAILABLE IN THE USA IN 2023

\*\* 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](http://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 13.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2022 DATA

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

NAME	ENTRY #	MS1	TN1	IA1	NE1	MEAN
JT 517	23	4.3	7.5	6.0	7.1	6.2
CAPITAN (DLFPS-321/3705)	59	4.6	7.4	5.8	7.0	6.2
TAR HEEL III (PST-5THM)	42	4.6	7.4	5.8	6.9	6.2
ROWDIER (DLFPS-321/3699)	20	4.3	7.4	5.9	7.0	6.2
ATF2116	7	4.5	7.4	5.8	6.9	6.2
GLX REVIVE (PST-5GLBS)	49	4.6	7.3	5.8	6.9	6.1
KIZZLE (K18-ROE)	31	4.3	7.3	5.9	7.0	6.1
EXTRAVAGANZA (PST-5MCMO)	39	4.6	7.3	5.7	6.9	6.1
DLFPS-TF/3553	15	4.2	7.3	5.9	7.0	6.1
BLADERUNNER 3 (DLFPS-321/3701)	34	4.2	7.3	5.9	7.0	6.1
TD2	18	4.2	7.3	5.9	7.0	6.1
BAR-FA8230	64	4.6	7.3	5.7	6.8	6.1
DYNAMITE G-LS (PPG-TF 254)	82	4.2	7.3	5.9	7.0	6.1
DEGAS (LTP-TF-111)	30	4.2	7.3	5.8	7.0	6.1
BENTLEY (DLFPS-321/3679)	16	4.2	7.3	5.9	7.0	6.1
TYCOON (COL-TF-148)	28	4.1	7.3	5.9	7.0	6.1
DLFPS-321/3708	62	4.1	7.3	5.9	7.0	6.1
RS1	9	4.4	7.2	5.7	6.9	6.1
SR 8700 (TMT1)	6	4.3	7.2	5.8	6.9	6.1
PPG-TF 249	66	4.0	7.3	5.9	7.0	6.1
GEM (PPG-TF 316)	78	4.2	7.2	5.8	7.0	6.1
DAYBREAK (AH2)	69	4.2	7.2	5.8	7.0	6.1
VALSETZ (PPG-TF 257)	80	4.2	7.2	5.8	7.0	6.0
HOUNDOG NINE (DLFPS-321/3702)	35	4.2	7.2	5.8	7.0	6.0
NT-3	8	4.1	7.2	5.8	7.0	6.0
PST-5DC24	51	4.1	7.3	5.9	6.9	6.0
FALCON SUPREME (RH1)	72	4.2	7.2	5.8	6.9	6.0
HELLCAT GLR (PST-5E6)	41	4.5	7.2	5.7	6.8	6.0
SOUTHSIDE (PPG-TF 267)	68	4.0	7.2	5.9	7.1	6.0
GRANDE 3	21	4.2	7.2	5.8	6.9	6.0
PST-5TRN	37	4.3	7.2	5.7	6.9	6.0
FASTLANE (BY-TF-169)	33	4.3	7.2	5.7	6.9	6.0
SYMPHONY (PPG-TF 305)	77	4.2	7.2	5.8	6.9	6.0
PST-5DZM	48	4.1	7.2	5.8	6.9	6.0
ATF1768	12	4.3	7.2	5.7	6.8	6.0
TANGO	52	4.1	7.3	5.8	6.9	6.0
PRO GOLD	40	4.0	7.3	5.8	6.9	6.0
LIFEGUARD	44	4.3	7.2	5.7	6.8	6.0
LBF	17	4.2	7.2	5.8	6.8	6.0
EXPANSE (PPG-TF 262)	67	3.9	7.2	5.9	7.0	6.0
MOONDANCE GLX	46	4.1	7.2	5.8	6.8	6.0
DLFPS-321/3695	5	4.1	7.2	5.7	6.9	6.0
ZION (BAR TF 134)	63	4.1	7.2	5.7	6.9	6.0
GALLARDO (DLFPS-TF/3550)	13	4.0	7.2	5.8	7.0	6.0
NATURALLY GREEN	1	4.2	7.2	5.7	6.8	6.0
DLFPS-321/3703	36	3.8	7.2	5.9	7.0	6.0
XANADU (JT 268)	75	3.9	7.1	5.8	7.0	6.0
BONFIRE (JS DTT)	24	4.1	7.1	5.7	6.9	6.0

TABLE 13.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2022 DATA

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

NAME	ENTRY #	MS1	TN1	IA1	NE1	MEAN
DLFPS-321/3693	3	3.9	7.2	5.8	7.0	6.0
RACEWAY (DLFPS-321/3696)	19	4.0	7.2	5.8	6.9	6.0
DLFPS-321/3706	60	3.9	7.1	5.8	6.9	5.9
BAR FA 8228	27	4.4	7.2	5.6	6.6	5.9
DLFPS-321/3707	61	4.0	7.1	5.7	6.9	5.9
TOPSHELFL (BGR-TF3)	11	4.0	7.2	5.7	6.8	5.9
K18-WB1	71	4.0	7.1	5.7	6.9	5.9
ESSENTIAL 2 (DLFPS-TF/3552)	14	4.0	7.1	5.7	6.8	5.9
OKEEFE (LTP-TF-122)	29	3.9	7.1	5.7	6.9	5.9
ORIOLE (PST-5BYOB)	43	3.9	7.1	5.7	6.8	5.9
PADRE 2	56	3.8	7.1	5.8	6.9	5.9
BANDIT	54	3.8	7.2	5.8	6.8	5.9
BRAVO 2	57	3.7	7.2	5.8	6.8	5.9
PST-5GQ	38	4.0	7.1	5.6	6.8	5.9
STEALTH (PPG-TF 238)	81	3.8	7.1	5.7	6.9	5.9
FIRENZA II (PPG-TF 244)	76	3.8	7.0	5.7	6.9	5.9
5LSS	10	3.8	7.0	5.7	6.9	5.9
NAI-FQZ-17	58	3.9	7.1	5.7	6.7	5.9
CLASH (AH1)	65	3.8	7.0	5.7	6.9	5.9
PARAMOUNT	2	3.7	7.1	5.7	6.8	5.8
RC4	79	3.8	7.0	5.6	6.8	5.8
FIERCE (K18-RS6)	70	3.9	7.0	5.6	6.8	5.8
GLX ACED (PST-5DART)	50	3.9	7.0	5.6	6.8	5.8
BARNOBLE (BAR 9FE MAS)	26	4.2	7.0	5.5	6.5	5.8
TITAN GLX (TF445)	129	4.4	7.2	5.8	7.0	5.8
TITANIUM G-LS (PPG-TF 255)	84	4.3	7.3	5.8	7.0	5.8
DLFPS-321/3694	4	3.7	7.0	5.7	6.8	5.8
RDC	25	3.8	7.0	5.6	6.8	5.8
COPIOUS TF	55	3.8	7.0	5.6	6.7	5.8
FINELAWN SUPREME (RH3)	73	3.6	6.9	5.6	6.8	5.8
DRAGSTER	98	4.3	7.2	5.8	6.9	5.8
AVENGER III (PPG-TF 308)	83	4.2	7.3	5.9	7.0	5.7
RAPTOR III	116	4.2	7.3	5.9	7.0	5.7
MONUMENT (PST-5SQB)	47	3.8	6.9	5.5	6.6	5.7
K18-NSE	32	3.7	6.9	5.5	6.7	5.7
PST-5MINK	45	3.6	6.9	5.6	6.6	5.7
TEACHER (PPG-TF 313)	118	4.1	7.2	5.8	7.0	5.7
ENDGAME (3N1)	53	3.3	6.9	5.7	6.8	5.7
JT 233	74	3.5	6.9	5.6	6.7	5.7
FAYETTE	22	3.4	6.9	5.6	6.7	5.7
SERENADE (PPG-TF 320)	119	4.1	7.3	5.9	7.0	5.7
PPG-TF 337	88	4.1	7.2	5.8	7.0	5.7
FIRECRACKER G-LS (PPG-TF 315)	86	4.1	7.2	5.8	6.9	5.7
PPG-TF 318	92	4.1	7.2	5.7	6.9	5.6
SETFM3	111	4.1	7.2	5.8	6.9	5.6
ESCALADE	127	4.2	7.1	5.6	6.6	5.6
PALOMAR	126	4.2	7.1	5.5	6.5	5.6
FIREHAWK SLT	94	4.0	7.3	5.9	7.1	5.6

TABLE 13.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2022 DATA

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

NAME	ENTRY #	MS1	TN1	IA1	NE1	MEAN
HEMI	95	4.1	7.2	5.8	6.9	5.6
3B2	112	4.0	7.2	5.9	6.9	5.6
GRO-PRO (SE53D2)	106	4.1	7.1	5.6	6.7	5.6
TRIAD (PPG-TF 323)	120	4.0	7.2	5.8	7.0	5.6
PROVIDENCE (GO-RH20)	99	3.9	7.2	5.9	7.0	5.6
TITAN MAX (TF456)	130	4.0	7.2	5.8	6.9	5.6
RHL2	115	4.0	7.1	5.7	6.9	5.6
SPYDER 2LS (ZRC1)	89	4.0	7.1	5.8	6.9	5.6
NAI-ST5	105	3.9	7.2	5.8	7.0	5.5
OG-WALK	128	4.0	7.0	5.5	6.5	5.5
RAPTOR LS (PPG-TF 336)	87	3.9	7.1	5.8	6.9	5.5
RHF	117	3.9	7.1	5.7	6.9	5.5
PPG-TF 231	90	3.8	7.2	5.9	7.0	5.5
TANK (PPG-TF 338)	121	3.9	7.1	5.8	6.9	5.5
GALACTIC (SESCR1)	108	4.0	7.0	5.6	6.8	5.5
PPG-TF 312	85	4.0	6.9	5.5	6.7	5.5
AST8218LM	124	3.9	7.1	5.6	6.7	5.5
SE5STAR	107	3.9	7.0	5.6	6.7	5.5
TOUGH (NAI-TUE)	104	3.8	7.1	5.7	6.8	5.4
RAD-TF105	113	3.9	7.0	5.7	6.8	5.4
FAIRFIELD (SETF104)	109	3.8	7.0	5.6	6.8	5.4
ROVER (PPG-TF 306)	91	3.8	7.1	5.7	6.9	5.4
AST8118LM	123	3.7	7.2	5.8	6.8	5.4
BULLSEYE	93	3.8	7.1	5.7	6.7	5.4
SETFM2	110	3.8	7.1	5.7	6.7	5.4
BATTLE HAWK (NAI-ROS4)	103	3.8	7.1	5.8	6.9	5.4
BULLSEYE LTZ	96	3.7	7.1	5.8	6.9	5.4
TALLADEGA II (NAI-3N2)	102	3.7	7.1	5.8	6.9	5.4
GRAND PRIX (FC15-01P)	131	3.9	6.9	5.5	6.5	5.4
RAD-TF131	114	3.7	7.0	5.6	6.7	5.3
LAFAYETTE (GO-AOMK)	101	3.6	7.1	5.8	6.9	5.3
A-TF31	125	3.6	7.0	5.7	6.7	5.3
BIRMINGHAM	100	3.5	6.9	5.5	6.6	5.2
RAD-TF115 (TURBO SS)	97	3.5	6.9	5.5	6.6	5.2
KENTUCKY-31	132	3.9	6.4	4.7	5.7	5.2
ESTRENA	122	3.0	6.8	5.6	6.7	4.9
LSD VALUE		0.8	0.8	0.8	0.8	0.8
C.V. (%)		12.1	6.8	8.5	7.1	8.4

\* 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](http://WWW.NTEP.ORG/LPI_Q&A.PDF)

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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. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2022 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				MEAN
	ENTRY #	NJ1	MI1	ON1	
BULLSEYE LTZ	96	7.4	7.2	6.4	7.0
ESTRENA	122	7.8	6.9	6.2	7.0
SOUTHSIDE (PPG-TF 267)	68	7.1	7.3	6.5	7.0
EXPANSE (PPG-TF 262)	67	7.2	7.2	6.5	7.0
FINELAWN SUPREME (RH3)	73	7.4	7.1	6.3	6.9
PROVIDENCE (GO-RH20)	99	7.0	7.2	6.5	6.9
PPG-TF 231	90	7.1	7.2	6.5	6.9
XANADU (JT 268)	75	7.1	7.2	6.4	6.9
BATTLE HAWK (NAI-ROS4)	103	7.1	7.1	6.4	6.9
ROVER (PPG-TF 306)	91	7.1	7.1	6.4	6.9
ENDGAME (3N1)	53	7.4	7.0	6.3	6.9
5LSS	10	7.1	7.1	6.4	6.9
DAYBREAK (AH2)	69	6.9	7.3	6.5	6.9
FIRENZA II (PPG-TF 244)	76	7.0	7.1	6.3	6.8
CLASH (AH1)	65	7.0	7.1	6.3	6.8
FIREHAWK SLT	94	6.7	7.2	6.5	6.8
TANK (PPG-TF 338)	121	6.8	7.1	6.4	6.8
RAPTOR LS (PPG-TF 336)	87	6.8	7.1	6.4	6.8
DLFPS-321/3693	3	6.8	7.1	6.4	6.8
NAI-ST5	105	6.7	7.1	6.4	6.8
SPYDER 2LS (ZRC1)	89	6.7	7.1	6.4	6.8
SERENADE (PPG-TF 320)	119	6.6	7.2	6.5	6.8
PPG-TF 249	66	6.6	7.2	6.5	6.7
JT 233	74	7.1	7.0	6.2	6.7
TRIAD (PPG-TF 323)	120	6.7	7.1	6.4	6.7
OKEEFE (LTP-TF-122)	29	6.7	7.1	6.3	6.7
STEALTH (PPG-TF 238)	81	6.7	7.1	6.3	6.7
GALLARDO (DLFPS-TF/3550)	13	6.6	7.1	6.4	6.7
TALLADEGA II (NAI-3N2)	102	6.7	7.0	6.4	6.7
RHL2	115	6.6	7.1	6.3	6.7
RHF	117	6.6	7.1	6.3	6.7
RC4	79	6.7	7.0	6.3	6.7
GEM (PPG-TF 316)	78	6.4	7.1	6.4	6.7
TYCOON (COL-TF-148)	28	6.4	7.2	6.4	6.7
PPG-TF 337	88	6.4	7.1	6.4	6.7
DLFPS-321/3703	36	6.5	7.1	6.4	6.7
BLADERUNNER 3 (DLFPS-321/3701)	34	6.4	7.2	6.5	6.7
RDC	25	6.7	7.0	6.2	6.7
PARAMOUNT	2	6.7	7.0	6.3	6.7
AVENGER III (PPG-TF 308)	83	6.3	7.2	6.4	6.7
DLFPS-321/3694	4	6.7	7.0	6.3	6.6
FERCE (K18-RS6)	70	6.7	7.0	6.2	6.6
BONFIRE (JS DTT)	24	6.5	7.1	6.3	6.6
DLFPS-321/3707	61	6.5	7.1	6.3	6.6
TITAN MAX (TF456)	130	6.5	7.1	6.4	6.6
PADRE 2	56	6.6	7.0	6.3	6.6
DLFPS-321/3708	62	6.3	7.1	6.4	6.6
DYNAMITE G-LS (PPG-TF 254)	82	6.3	7.1	6.4	6.6

TABLE 14. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2022 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
	ENTRY #	NJ1	MI1	ON1	MEAN
DLFPS-321/3706	60	6.5	7.1	6.3	6.6
TEACHER (PPG-TF 313)	118	6.3	7.1	6.4	6.6
VALSETZ (PPG-TF 257)	80	6.3	7.1	6.4	6.6
LAFAYETTE (GO-AOMK)	101	6.6	6.9	6.3	6.6
TD2	18	6.2	7.1	6.4	6.6
GALACTIC (SESCR1)	108	6.4	7.0	6.3	6.6
DLFPS-TF/3553	15	6.1	7.1	6.4	6.5
K18-WB1	71	6.3	7.0	6.3	6.5
K18-NSE	32	6.6	6.9	6.1	6.5
TITANIUM G-LS (PPG-TF 255)	84	6.0	7.1	6.4	6.5
DEGAS (LTP-TF-111)	30	6.1	7.1	6.4	6.5
FIRECRACKER G-LS (PPG-TF 315)	86	6.2	7.0	6.3	6.5
SYMPHONY (PPG-TF 305)	77	6.1	7.1	6.4	6.5
FAYETTE	22	6.5	6.8	6.1	6.5
ZION (BAR TF 134)	63	6.1	7.0	6.3	6.5
FALCON SUPREME (RH1)	72	6.1	7.1	6.4	6.5
3B2	112	6.1	7.0	6.4	6.5
NT-3	8	6.0	7.0	6.4	6.5
RACEWAY (DLFPS-321/3696)	19	6.1	7.0	6.3	6.5
HOUNDOG NINE (DLFPS-321/3702)	35	6.0	7.1	6.4	6.5
RAPTOR III	116	6.0	7.1	6.4	6.5
PPG-TF 318	92	6.1	7.0	6.3	6.5
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.1	7.0	6.3	6.5
RAD-TF105	113	6.2	6.9	6.2	6.4
FAIRFIELD (SETF104)	109	6.2	6.9	6.2	6.4
DLFPS-321/3695	5	6.0	7.0	6.3	6.4
TITAN GLX (TF445)	129	5.8	7.1	6.4	6.4
GLX ACED (PST-5DART)	50	6.1	6.9	6.2	6.4
HEMI	95	5.9	7.0	6.3	6.4
DRAGSTER	98	5.7	7.0	6.3	6.3
A-TF31	125	6.0	6.8	6.2	6.3
BENTLEY (DLFPS-321/3679)	16	5.6	7.0	6.4	6.3
ROWDIER (DLFPS-321/3699)	20	5.5	7.0	6.4	6.3
RS1	9	5.6	7.0	6.3	6.3
KIZZLE (K18-ROE)	31	5.5	7.0	6.4	6.3
AST8118LM	123	5.8	6.8	6.3	6.3
BRAVO 2	57	5.8	6.8	6.3	6.3
CAPITAN (DLFPS-321/3705)	59	5.3	7.1	6.4	6.3
PST-5GQ	38	5.7	6.9	6.2	6.3
PST-5DC24	51	5.5	6.9	6.3	6.2
SETFM3	111	5.5	6.9	6.3	6.2
SR 8700 (TMT1)	6	5.4	7.0	6.3	6.2
PRO GOLD	40	5.5	6.9	6.3	6.2
JT 517	23	5.2	7.0	6.4	6.2
PST-5DZM	48	5.4	6.9	6.3	6.2
FASTLANE (BY-TF-169)	33	5.4	6.9	6.3	6.2
PPG-TF 312	85	5.7	6.8	6.1	6.2
TOUGH (NAI-TUE)	104	5.6	6.8	6.2	6.2

TABLE 14. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2022 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				MEAN
	ENTRY #	NJ1	MI1	ON1	
ORIOLE (PST-5BYOB)	43	5.5	6.8	6.2	6.2
PST-5MINK	45	5.8	6.7	6.1	6.2
BANDIT	54	5.5	6.8	6.2	6.2
SETFM2	110	5.6	6.7	6.1	6.1
COPIOUS TF	55	5.6	6.7	6.1	6.1
BULLSEYE	93	5.5	6.7	6.1	6.1
TANGO	52	5.3	6.8	6.3	6.1
GRANDE 3	21	5.2	6.9	6.3	6.1
RAD-TF115 (TURBO SS)	97	5.8	6.6	6.0	6.1
LIFEGUARD	44	5.2	6.9	6.2	6.1
BIRMINGHAM	100	5.6	6.6	6.0	6.1
PST-5TRN	37	5.1	6.9	6.2	6.1
RAD-TF131	114	5.5	6.7	6.1	6.1
TOPSHELF (BGR-TF3)	11	5.2	6.8	6.2	6.1
MOONDANCE GLX	46	5.1	6.8	6.2	6.0
NAI-FQZ-17	58	5.2	6.7	6.1	6.0
MONUMENT (PST-5SQB)	47	5.3	6.6	6.0	6.0
SE5STAR	107	5.2	6.7	6.1	6.0
GRO-PRO (SE53D2)	106	5.0	6.7	6.1	6.0
LBF	17	4.9	6.8	6.2	5.9
AST8218LM	124	5.1	6.6	6.1	5.9
GLX REVIVE (PST-5GLBS)	49	4.6	6.9	6.3	5.9
HELLCAT GLR (PST-5E6)	41	4.7	6.8	6.2	5.9
EXTRAVAGANZA (PST-5MCMO)	39	4.6	6.8	6.2	5.9
ATF1768	12	4.6	6.7	6.2	5.8
TAR HEEL III (PST-5THM)	42	4.2	6.8	6.2	5.8
ATF2116	7	4.2	6.8	6.2	5.7
NATURALLY GREEN	1	4.4	6.7	6.1	5.7
GRAND PRIX (FC15-01P)	131	4.6	6.5	5.9	5.7
ESCALADE	127	3.9	6.5	6.0	5.5
BAR-FA8230	64	3.5	6.6	6.1	5.4
OG-WALK	128	3.8	6.3	5.9	5.3
BARNOBLE (BAR 9FE MAS)	26	3.6	6.4	5.9	5.3
BAR FA 8228	27	3.3	6.4	6.0	5.2
PALOMAR	126	3.5	6.3	5.9	5.2
KENTUCKY-31	132	0.7	5.3	4.9	3.6
LSD VALUE		0.8	0.8	0.8	0.8
C.V. (%)		8.2	7.0	7.7	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](http://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 15.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2023 DATA

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

NAME	ENTRY #	NJ2	NJ1	NC1	IN1	OR1	VA1	MD1	KS1	MEAN
*DAYBREAK (AH2)	69	7.0	7.0	7.0	6.4	6.4	6.5	7.8	5.1	6.9
*EXPANSE (PPG-TF 262)	67	6.6	6.7	6.8	6.2	6.3	6.5	7.8	5.1	6.7
*CLASH (AH1)	65	6.5	6.6	6.8	6.2	6.2	6.4	7.7	5.1	6.6
DLFPS-321/3707	61	6.5	6.6	6.7	6.1	6.2	6.3	7.7	5.0	6.6
*PROVIDENCE (GO-RH20)	99	6.5	6.6	6.8	6.2	6.3	6.4	7.8	5.1	6.6
RC4	79	6.5	6.6	6.7	6.1	6.1	6.2	7.6	4.9	6.5
*FIRENZA II (PPG-TF 244)	76	6.4	6.5	6.7	6.1	6.1	6.3	7.7	5.0	6.5
*SOUTHSIDE (PPG-TF 267)	68	6.3	6.5	6.6	6.1	6.2	6.4	7.7	5.0	6.5
*XANADU (JT 268 )	75	6.3	6.4	6.6	6.1	6.2	6.4	7.7	5.1	6.5
5LSS	10	6.4	6.5	6.6	6.0	6.1	6.3	7.6	4.9	6.5
*STEALTH (PPG-TF 238)	81	6.3	6.4	6.6	6.1	6.1	6.3	7.7	5.0	6.5
*SPYDER 2LS (ZRC1)	89	6.4	6.5	6.7	6.1	6.2	6.4	7.7	5.0	6.5
*BONFIRE (JS DTT)	24	6.2	6.4	6.6	6.0	6.1	6.3	7.6	5.0	6.4
*TYCOON (COL-TF-148)	28	6.1	6.3	6.5	6.0	6.1	6.3	7.6	5.0	6.4
*FIERCE (K18-RS6)	70	6.2	6.4	6.5	6.0	6.0	6.2	7.6	4.9	6.4
*GALLARDO (DLFPS-TF/3550)	13	6.1	6.3	6.5	6.0	6.0	6.3	7.6	4.9	6.4
FINELAWN SUPREME (RH3)	73	6.2	6.3	6.5	6.0	6.0	6.2	7.6	4.9	6.4
TD2	18	6.1	6.3	6.5	6.0	6.0	6.3	7.6	5.0	6.4
*GEM (PPG-TF 316)	78	6.1	6.3	6.5	6.0	6.0	6.2	7.6	4.9	6.4
DLFPS-321/3708	62	6.0	6.2	6.5	6.0	6.0	6.3	7.6	5.0	6.4
RS1	9	6.1	6.3	6.5	6.0	6.0	6.2	7.6	4.9	6.4
*SYMPHONY (PPG-TF 305)	77	6.0	6.2	6.5	6.0	6.0	6.3	7.6	5.0	6.4
DLFPS-321/3693	3	6.1	6.3	6.4	5.9	6.0	6.2	7.5	4.8	6.3
NT-3	8	5.9	6.1	6.4	5.9	6.0	6.3	7.6	5.0	6.3
*ESSENTIAL 2 (DLFPS-TF/3552)	14	6.0	6.2	6.4	5.9	6.0	6.2	7.5	4.9	6.3
*FALCON SUPREME (RH1)	72	5.9	6.1	6.4	5.9	6.0	6.2	7.6	4.9	6.3
*VALSETZ (PPG-TF 257)	80	5.9	6.1	6.4	5.9	6.0	6.2	7.6	4.9	6.3
*SERENADE (PPG-TF 320)	119	6.2	6.4	6.6	6.1	6.1	6.4	7.7	5.1	6.3
DLFPS-321/3706	60	6.0	6.2	6.4	5.9	5.9	6.2	7.5	4.8	6.3
RHL2	115	6.2	6.3	6.5	6.0	6.0	6.2	7.5	4.9	6.3
*CAPITAN (DLFPS-321/3705)	59	5.8	6.1	6.4	5.9	6.0	6.2	7.6	4.9	6.3
K18-NSE	32	6.2	6.3	6.4	5.8	5.9	6.0	7.4	4.7	6.3
DLFPS-321/3695	5	6.0	6.2	6.4	5.8	5.9	6.1	7.4	4.8	6.3
*HOUND OG NINE (DLFPS-321/3702)	35	5.9	6.1	6.4	5.9	5.9	6.2	7.5	4.8	6.3
DLFPS-TF/3553	15	5.9	6.1	6.3	5.8	5.9	6.1	7.5	4.8	6.2
*BATTLE HAWK (NAI-ROS4)	103	6.2	6.3	6.5	5.9	6.0	6.2	7.5	4.9	6.2
*TITANIUM G-LS (PPG-TF 255)	84	6.1	6.3	6.6	6.1	6.1	6.4	7.7	5.0	6.2
RHF	117	6.2	6.3	6.5	5.9	6.0	6.2	7.5	4.9	6.2
*DEGAS (LTP-TF-111)	30	5.8	6.0	6.3	5.8	5.9	6.2	7.5	4.9	6.2
*BULLSEYE LTZ	96	6.1	6.3	6.5	6.0	6.0	6.2	7.6	4.9	6.2
RDC	25	5.8	6.0	6.3	5.8	5.9	6.2	7.5	4.9	6.2
K18-WB1	71	5.9	6.1	6.3	5.8	5.8	6.1	7.4	4.7	6.2
*DYNAMITE G-LS (PPG-TF 254)	82	5.7	6.0	6.3	5.8	5.9	6.2	7.5	4.9	6.2
*GALACTIC (SESCR1)	108	6.1	6.3	6.5	5.9	6.0	6.2	7.5	4.9	6.2
*TEACHER (PPG-TF 313)	118	6.1	6.3	6.5	6.0	6.0	6.3	7.6	4.9	6.2
*O'KEEFE (LTP-TF-122)	29	5.7	5.9	6.2	5.8	5.8	6.1	7.5	4.8	6.1
*BLADERUNNER 3 (DLFPS-321/3701)	34	5.5	5.8	6.2	5.7	5.8	6.2	7.5	4.9	6.1
*AVENGER III (PPG-TF 308)	83	6.0	6.2	6.5	6.0	6.0	6.3	7.6	5.0	6.1
*ZION (BAR TF 134)	63	5.5	5.8	6.1	5.7	5.8	6.1	7.4	4.8	6.1

TABLE 15.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										
NAME	ENTRY #	NJ2	NJ1	NC1	IN1	OR1	VA1	MD1	KS1	MEAN
*ROVER (PPG-TF 306)	91	6.0	6.2	6.4	5.9	6.0	6.3	7.6	4.9	6.1
*TITAN GLX (TF445)	129	5.9	6.2	6.4	6.0	6.0	6.3	7.6	5.0	6.0
*FASTLANE (BY-TF-169)	33	5.4	5.8	6.1	5.7	5.8	6.1	7.4	4.8	6.0
PPG-TF 249	66	5.4	5.7	6.1	5.7	5.8	6.1	7.4	4.8	6.0
DLFPS-321/3694	4	5.6	5.8	6.1	5.6	5.7	6.0	7.3	4.6	6.0
*GLX ACED (PST-5DART)	50	5.4	5.7	6.1	5.7	5.7	6.1	7.4	4.8	6.0
*SR 8700 (TMT1)	6	5.4	5.7	6.1	5.6	5.7	6.1	7.4	4.7	6.0
JT 233	74	5.5	5.7	6.1	5.6	5.7	6.0	7.3	4.7	6.0
*TRIAD (PPG-TF 323)	120	5.9	6.1	6.3	5.9	5.9	6.2	7.5	4.9	6.0
*RACEWAY (DLFPS-321/3696)	19	5.2	5.6	6.0	5.6	5.7	6.1	7.4	4.8	6.0
*KIZZLE (K18-ROE)	31	5.2	5.6	6.0	5.6	5.7	6.1	7.4	4.8	5.9
*HELLCAT GLR (PST-5E6)	41	5.2	5.6	6.0	5.6	5.7	6.1	7.4	4.8	5.9
*TANK (PPG-TF 338)	121	5.8	6.0	6.3	5.9	5.9	6.2	7.5	4.9	5.9
PPG-TF 337	88	5.8	6.0	6.3	5.8	5.9	6.2	7.5	4.9	5.9
*LIFEGUARD	44	5.2	5.5	6.0	5.6	5.7	6.1	7.4	4.8	5.9
PST-5TRN	37	5.2	5.5	5.9	5.5	5.6	6.0	7.3	4.7	5.9
*ROWDIER (DLFPS-321/3699)	20	5.1	5.5	5.9	5.6	5.7	6.1	7.4	4.8	5.9
*PARAMOUNT	2	5.3	5.6	5.9	5.5	5.6	5.9	7.2	4.6	5.8
PST-5GQ	38	5.1	5.5	5.9	5.5	5.6	6.0	7.3	4.7	5.8
*ENDGAME (3N1)	53	5.1	5.5	5.9	5.5	5.5	5.9	7.2	4.6	5.8
PPG-TF 318	92	5.7	5.9	6.2	5.8	5.8	6.1	7.4	4.8	5.8
DLFPS-321/3703	36	5.1	5.5	5.9	5.4	5.5	5.9	7.2	4.6	5.8
*GLX REVIVE (PST-5GLBS)	49	4.9	5.3	5.8	5.5	5.6	6.0	7.3	4.7	5.8
*RAPTOR LS (PPG-TF 336)	87	5.7	5.9	6.2	5.8	5.8	6.1	7.5	4.8	5.8
*PADRE 2	56	5.1	5.4	5.8	5.4	5.5	5.9	7.2	4.6	5.8
*GRANDE 3	21	5.2	5.5	5.8	5.4	5.5	5.8	7.2	4.5	5.8
*FIRECRACKER G-LS (PPG-TF 315)	86	5.6	5.9	6.2	5.7	5.8	6.1	7.4	4.7	5.8
NAI-ST5	105	5.6	5.9	6.2	5.8	5.8	6.2	7.5	4.9	5.7
*EXTRAVAGANZA (PST-5MCMO)	39	4.8	5.3	5.8	5.5	5.5	6.0	7.3	4.7	5.7
*RAPTOR III	116	5.6	5.9	6.2	5.7	5.8	6.1	7.4	4.8	5.7
*BENTLEY (DLFPS-321/3679)	16	4.8	5.3	5.8	5.4	5.5	5.9	7.3	4.6	5.7
PPG-TF 312	85	5.6	5.8	6.1	5.6	5.6	5.9	7.2	4.6	5.7
*DRAGSTER	98	5.5	5.8	6.1	5.7	5.8	6.1	7.5	4.8	5.6
*TITAN MAX (TF456)	130	5.5	5.8	6.2	5.8	5.8	6.2	7.5	4.9	5.6
ATF1768	12	4.6	5.1	5.6	5.3	5.4	5.9	7.2	4.6	5.6
*FAYETTE	22	4.6	5.0	5.6	5.2	5.3	5.8	7.1	4.5	5.5
*FIREHAWK SLT	94	5.4	5.7	6.0	5.6	5.7	6.0	7.4	4.7	5.5
*HEMI	95	5.3	5.7	6.0	5.6	5.7	6.0	7.4	4.7	5.5
*ORIOLE (PST-5BYOB)	43	4.4	4.9	5.5	5.2	5.3	5.8	7.2	4.5	5.5
PST-5DC24	51	4.4	4.9	5.5	5.2	5.3	5.8	7.2	4.6	5.5
LBF	17	4.6	5.0	5.5	5.2	5.3	5.7	7.1	4.4	5.5
PST-5DZM	48	4.3	4.8	5.5	5.2	5.3	5.9	7.2	4.6	5.5
*TAR HEEL III (PST-5THM)	42	4.3	4.9	5.5	5.2	5.3	5.8	7.1	4.5	5.4
JT 517	23	4.2	4.8	5.4	5.1	5.2	5.8	7.1	4.5	5.4
PPG-TF 231	90	5.2	5.5	5.9	5.5	5.6	6.0	7.3	4.7	5.4
*MONUMENT (PST-5SQB)	47	4.4	4.8	5.4	5.1	5.2	5.7	7.0	4.4	5.4
*COPIOUS TF	55	4.4	4.8	5.4	5.1	5.2	5.6	7.0	4.4	5.4
*TALLADEGA II (NAI-3N2)	102	5.2	5.5	5.9	5.4	5.5	5.9	7.2	4.6	5.3



TABLE 15.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2023 DATA

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

NAME	ENTRY #	NJ2	NJ1	NC1	IN1	OR1	VA1	MD1	KS1	MEAN
*FAIRFIELD (SETF104)	109	5.1	5.5	5.8	5.4	5.5	5.9	7.2	4.6	5.3
*PRO GOLD	40	4.1	4.7	5.3	5.0	5.1	5.7	7.0	4.4	5.3
*MOONDANCE GLX	46	4.1	4.6	5.3	5.0	5.1	5.7	7.0	4.4	5.3
ATF2116	7	3.9	4.5	5.2	5.0	5.1	5.7	7.0	4.4	5.2
PST-5MINK	45	4.0	4.6	5.2	5.0	5.1	5.6	7.0	4.3	5.2
3B2	112	5.0	5.4	5.8	5.5	5.5	5.9	7.3	4.7	5.2
*BRAVO 2	57	3.9	4.5	5.2	5.0	5.1	5.6	7.0	4.4	5.2
ESTRENA	122	4.9	5.3	5.7	5.3	5.4	5.8	7.2	4.5	5.1
*BANDIT	54	3.9	4.5	5.1	4.9	5.0	5.5	6.9	4.3	5.1
*TANGO	52	3.7	4.3	5.1	4.8	5.0	5.6	6.9	4.3	5.1
*TOPSHELF (BGR-TF3)	11	3.8	4.4	5.1	4.8	4.9	5.5	6.9	4.3	5.0
*NATURALLY GREEN	1	3.6	4.3	5.0	4.8	4.9	5.5	6.9	4.3	5.0
NAI-FQZ-17	58	3.7	4.3	5.0	4.8	4.9	5.5	6.9	4.2	5.0
RAD-TF105	113	4.8	5.2	5.7	5.3	5.4	5.8	7.2	4.5	5.0
BAR-FA8230	64	3.4	4.1	4.9	4.7	4.8	5.5	6.9	4.2	4.9
RAD-TF 115 (TURBO SS)	97	4.5	4.9	5.4	5.0	5.1	5.5	6.8	4.2	4.7
*GRO-PRO (SE53D2)	106	4.5	4.9	5.5	5.2	5.3	5.7	7.1	4.5	4.7
RAD-TF131	114	4.5	4.9	5.3	5.0	5.0	5.5	6.8	4.2	4.7
*BARNOBLE (BAR 9FE MAS)	26	3.0	3.7	4.5	4.4	4.5	5.2	6.6	4.0	4.6
*TOUGH (NAI-TUE)	104	4.3	4.8	5.4	5.1	5.2	5.7	7.0	4.4	4.5
SETFM3	111	4.2	4.8	5.4	5.1	5.2	5.8	7.1	4.5	4.5
*LAFAYETTE (GO-AOMK)	101	4.2	4.7	5.4	5.1	5.2	5.7	7.1	4.4	4.5
BAR FA 8228	27	2.7	3.5	4.4	4.3	4.5	5.2	6.6	4.0	4.5
*BULLSEYE	93	4.1	4.6	5.2	4.9	5.0	5.5	6.9	4.3	4.4
A-TF31	125	4.1	4.6	5.2	5.0	5.1	5.6	6.9	4.3	4.3
SETFM2	110	4.0	4.5	5.2	4.9	5.0	5.6	6.9	4.3	4.3
SE5STAR	107	3.8	4.4	5.1	4.8	4.9	5.5	6.8	4.2	4.1
*AST8218LM	124	3.7	4.3	5.0	4.8	4.9	5.5	6.8	4.2	4.0
*BIRMINGHAM	100	3.7	4.3	5.0	4.7	4.9	5.4	6.8	4.2	4.0
*AST8118LM	123	3.6	4.2	4.9	4.7	4.8	5.4	6.8	4.2	3.9
*GRAND PRIX (FC15-01P)	131	3.3	4.0	4.8	4.6	4.7	5.3	6.7	4.1	3.7
*ESCALADE	127	2.9	3.7	4.6	4.5	4.6	5.3	6.7	4.1	3.3
*PALOMAR	126	2.8	3.6	4.4	4.3	4.4	5.1	6.5	3.9	3.2
*OG-WALK	128	2.6	3.4	4.3	4.2	4.3	5.1	6.4	3.9	3.0
*KENTUCKY-31	132	0.6	1.7	2.8	2.9	3.1	4.0	5.4	2.8	1.2
LSD VALUE		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)		9.2	8.6	8.0	8.6	8.5	7.9	6.5	10.2	8.4

\* COMMERCIALY AVAILABLE IN THE USA IN 2024

\*\* 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](http://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 16.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2023 DATA

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

NAME	ENTRY #	CT1	DE1	GA1	NE1	UT1	MEAN
EXPANSE (PPG-TF 262)	67	7.1	6.8	7.9	6.9	6.9	7.1
XANADU (JT 268 )	75	7.0	6.8	7.9	6.9	6.9	7.1
DAYBREAK (AH2)	69	7.0	6.8	7.8	6.8	6.9	7.1
CLASH (AH1)	65	7.0	6.7	7.8	6.8	6.9	7.0
TYCOON (COL-TF-148)	28	6.9	6.7	7.8	6.8	6.9	7.0
DLFPS-321/3708	62	6.9	6.7	7.8	6.8	6.9	7.0
SOUTHSIDE (PPG-TF 267)	68	7.0	6.7	7.8	6.8	6.9	7.0
NT-3	8	6.9	6.7	7.8	6.8	6.9	7.0
SYMPHONY (PPG-TF 305)	77	6.9	6.7	7.8	6.8	6.9	7.0
STEALTH (PPG-TF 238)	81	6.9	6.7	7.8	6.8	6.8	7.0
FIRENZA II (PPG-TF 244)	76	6.9	6.7	7.8	6.8	6.8	7.0
CAPITAN (DLFPS-321/3705)	59	6.9	6.7	7.8	6.8	6.9	7.0
TD2	18	6.9	6.7	7.7	6.8	6.8	7.0
BONFIRE (JS DTT)	24	6.9	6.7	7.7	6.8	6.8	7.0
GALLARDO (DLFPS-TF/3550)	13	6.9	6.7	7.7	6.8	6.8	7.0
BLADERUNNER 3 (DLFPS-321/3701)	34	6.8	6.6	7.7	6.8	6.8	7.0
FALCON SUPREME (RH1)	72	6.9	6.6	7.7	6.8	6.8	7.0
DLFPS-321/3707	61	6.9	6.7	7.7	6.7	6.8	7.0
VALSETZ (PPG-TF 257)	80	6.9	6.6	7.7	6.8	6.8	7.0
DYNAMITE G-LS (PPG-TF 254)	82	6.8	6.6	7.7	6.8	6.8	7.0
RS1	9	6.9	6.6	7.7	6.7	6.8	6.9
RACEWAY (DLFPS-321/3696)	19	6.8	6.6	7.7	6.8	6.8	6.9
GEM (PPG-TF 316)	78	6.9	6.6	7.7	6.7	6.8	6.9
ROWDIER (DLFPS-321/3699)	20	6.8	6.6	7.7	6.8	6.8	6.9
RDC	25	6.8	6.6	7.7	6.7	6.8	6.9
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.8	6.6	7.7	6.7	6.8	6.9
PPG-TF 249	66	6.8	6.6	7.7	6.7	6.8	6.9
DEGAS (LTP-TF-111)	30	6.8	6.6	7.7	6.7	6.8	6.9
PROVIDENCE (GO-RH20)	99	7.0	6.8	7.9	6.9	6.9	6.9
KIZZLE (K18-ROE)	31	6.8	6.6	7.7	6.7	6.8	6.9
FINELAWN SUPREME (RH3)	73	6.8	6.6	7.7	6.7	6.7	6.9
FIERCE (K18-RS6)	70	6.8	6.6	7.7	6.7	6.7	6.9
LIFEGUARD	44	6.7	6.5	7.7	6.7	6.8	6.9
5LSS	10	6.8	6.6	7.6	6.7	6.7	6.9
HELLCAT GLR (PST-5E6)	41	6.7	6.5	7.7	6.7	6.8	6.9
SERENADE (PPG-TF 320)	119	7.0	6.8	7.9	6.9	6.9	6.9
FASTLANE (BY-TF-169)	33	6.8	6.5	7.7	6.7	6.8	6.9
EXTRAVAGANZA (PST-5MCMO)	39	6.7	6.5	7.7	6.7	6.8	6.9
HOUNDG NINE (DLFPS-321/3702)	35	6.8	6.6	7.6	6.7	6.7	6.9
GLX ACED (PST-5DART)	50	6.7	6.5	7.7	6.7	6.8	6.9
TITANIUM G-LS (PPG-TF 255)	84	7.0	6.8	7.9	6.9	6.9	6.9
GLX REVIVE (PST-5GLBS)	49	6.7	6.5	7.7	6.7	6.8	6.9
O'KEEFE (LTP-TF-122)	29	6.8	6.5	7.6	6.7	6.7	6.9
ZION (BAR TF 134)	63	6.7	6.5	7.6	6.7	6.7	6.9
RC4	79	6.8	6.6	7.6	6.6	6.7	6.9
DLFPS-321/3706	60	6.8	6.5	7.6	6.7	6.7	6.9
DLFPS-321/3693	3	6.8	6.5	7.6	6.7	6.7	6.9
SR 8700 (TMT1)	6	6.7	6.5	7.6	6.7	6.7	6.9

TABLE 16.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2023 DATA

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

NAME	ENTRY #	CT1	DE1	GA1	NE1	UT1	MEAN
DLFPS-TF/3553	15	6.8	6.5	7.6	6.6	6.7	6.8
TITAN GLX (TF445)	129	7.0	6.7	7.8	6.9	6.9	6.8
PST-5GQ	38	6.7	6.5	7.6	6.7	6.7	6.8
PST-5TRN	37	6.7	6.5	7.6	6.7	6.7	6.8
PST-5DZM	48	6.6	6.4	7.6	6.7	6.8	6.8
SPYDER 2LS (ZRC1)	89	7.0	6.7	7.8	6.8	6.8	6.8
DLFPS-321/3695	5	6.7	6.5	7.6	6.6	6.6	6.8
BENTLEY (DLFPS-321/3679)	16	6.6	6.4	7.6	6.7	6.7	6.8
AVENGER III (PPG-TF 308)	83	6.9	6.7	7.8	6.8	6.9	6.8
ATF1768	12	6.6	6.4	7.6	6.6	6.7	6.8
ROVER (PPG-TF 306)	91	6.9	6.7	7.8	6.8	6.8	6.8
PST-5DC24	51	6.6	6.4	7.6	6.6	6.7	6.8
TEACHER (PPG-TF 313)	118	6.9	6.7	7.7	6.8	6.8	6.8
JT 517	23	6.6	6.4	7.6	6.6	6.7	6.8
TITAN MAX (TF456)	130	6.9	6.7	7.8	6.8	6.9	6.8
JT 233	74	6.6	6.4	7.5	6.6	6.6	6.8
K18-WB1	71	6.7	6.4	7.5	6.6	6.6	6.8
ORIOLE (PST-5BYOB)	43	6.6	6.4	7.5	6.6	6.7	6.8
BULLSEYE LTZ	96	6.9	6.6	7.7	6.7	6.8	6.7
TANK (PPG-TF 338)	121	6.9	6.6	7.7	6.8	6.8	6.7
PADRE 2	56	6.6	6.4	7.5	6.6	6.6	6.7
PPG-TF 337	88	6.8	6.6	7.7	6.8	6.8	6.7
TAR HEEL III (PST-5THM)	42	6.5	6.3	7.5	6.6	6.7	6.7
TRIAD (PPG-TF 323)	120	6.8	6.6	7.7	6.7	6.8	6.7
NAI-ST5	105	6.8	6.6	7.7	6.8	6.8	6.7
DLFPS-321/3694	4	6.6	6.4	7.5	6.5	6.6	6.7
ENDGAME (3N1)	53	6.6	6.3	7.5	6.5	6.6	6.7
DLFPS-321/3703	36	6.6	6.3	7.5	6.5	6.6	6.7
PARAMOUNT	2	6.6	6.3	7.5	6.5	6.6	6.7
RHF	117	6.8	6.6	7.6	6.7	6.7	6.7
GALACTIC (SESCR1)	108	6.8	6.6	7.6	6.7	6.7	6.7
K18-NSE	32	6.6	6.4	7.4	6.5	6.5	6.7
DRAGSTER	98	6.8	6.6	7.7	6.7	6.8	6.7
RHL2	115	6.8	6.6	7.6	6.7	6.7	6.7
ATF2116	7	6.4	6.3	7.5	6.6	6.6	6.7
BATTLE HAWK (NAI-ROS4)	103	6.8	6.6	7.6	6.7	6.7	6.7
FAYETTE	22	6.5	6.3	7.4	6.5	6.6	6.7
RAPTOR LS (PPG-TF 336)	87	6.8	6.5	7.7	6.7	6.8	6.7
PRO GOLD	40	6.4	6.3	7.4	6.5	6.6	6.6
PPG-TF 318	92	6.8	6.5	7.6	6.7	6.7	6.6
RAPTOR III	116	6.8	6.5	7.6	6.7	6.7	6.6
MOONDANCE GLX	46	6.4	6.2	7.4	6.5	6.6	6.6
BRAVO 2	57	6.4	6.2	7.4	6.5	6.6	6.6
GRANDE 3	21	6.5	6.3	7.4	6.4	6.5	6.6
MONUMENT (PST-5SQB)	47	6.4	6.2	7.4	6.5	6.5	6.6
FIREHAWK SLT	94	6.7	6.5	7.6	6.7	6.7	6.6
LBF	17	6.4	6.2	7.4	6.4	6.5	6.6
PST-5MINK	45	6.4	6.2	7.4	6.5	6.5	6.6

TABLE 16.  
(CONT'D)

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2023 DATA

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

NAME	ENTRY #	CT1	DE1	GA1	NE1	UT1	MEAN
NATURALLY GREEN	1	6.3	6.2	7.4	6.5	6.6	6.6
FIRECRACKER G-LS (PPG-TF 315)	86	6.7	6.5	7.6	6.6	6.7	6.6
HEMI	95	6.7	6.5	7.6	6.6	6.7	6.6
TANGO	52	6.3	6.2	7.4	6.5	6.5	6.6
COPIOUS TF	55	6.4	6.2	7.4	6.4	6.5	6.6
BAR-FA8230	64	6.3	6.1	7.4	6.5	6.5	6.6
PPG-TF 231	90	6.6	6.4	7.6	6.6	6.7	6.5
3B2	112	6.6	6.4	7.6	6.6	6.7	6.5
TOPSHELF (BGR-TF3)	11	6.3	6.1	7.3	6.4	6.5	6.5
BANDIT	54	6.3	6.1	7.3	6.4	6.5	6.5
NAI-FQZ-17	58	6.3	6.1	7.3	6.4	6.5	6.5
TALLADEGA II (NAI-3N2)	102	6.6	6.3	7.5	6.5	6.6	6.4
RAD-TF105	113	6.5	6.3	7.5	6.6	6.6	6.4
FAIRFIELD (SETF104)	109	6.5	6.3	7.4	6.5	6.5	6.4
PPG-TF 312	85	6.5	6.3	7.4	6.4	6.5	6.4
SETFM3	111	6.5	6.3	7.5	6.6	6.7	6.4
ESTRENA	122	6.5	6.3	7.4	6.5	6.5	6.4
GRO-PRO (SE53D2)	106	6.5	6.3	7.5	6.5	6.6	6.4
BAR FA 8228	27	6.1	5.9	7.2	6.3	6.4	6.4
LAFAYETTE (GO-AOMK)	101	6.4	6.3	7.4	6.5	6.6	6.4
BARNOBLE (BAR 9FE MAS)	26	6.1	5.9	7.2	6.3	6.4	6.4
TOUGH (NAI-TUE)	104	6.4	6.2	7.4	6.5	6.5	6.3
A-TF31	125	6.3	6.2	7.3	6.4	6.5	6.2
SETFM2	110	6.3	6.1	7.3	6.4	6.5	6.2
BULLSEYE	93	6.3	6.1	7.3	6.3	6.4	6.2
AST8218LM	124	6.2	6.1	7.3	6.4	6.4	6.1
BIRMINGHAM	100	6.2	6.0	7.2	6.3	6.4	6.1
SE5STAR	107	6.2	6.0	7.2	6.3	6.4	6.1
AST8118LM	123	6.2	6.0	7.2	6.3	6.4	6.1
ESCALADE	127	6.1	6.0	7.3	6.4	6.5	6.1
RAD-TF 115 (TURBO SS)	97	6.2	6.0	7.1	6.2	6.2	6.1
RAD-TF131	114	6.2	6.0	7.1	6.2	6.2	6.1
GRAND PRIX (FC15-01P)	131	6.1	6.0	7.2	6.3	6.4	6.0
PALOMAR	126	6.0	5.8	7.1	6.2	6.3	5.9
OG-WALK	128	5.9	5.8	7.0	6.2	6.2	5.9
KENTUCKY-31	132	4.9	4.8	6.1	5.3	5.4	4.9
LSD VALUE		0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)		7.1	7.4	6.3	7.1	7.1	7.1

\* 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](http://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 17. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2023 DATA

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

NAME	ENTRY #	OK1	MI1	MS1	MEAN
TITANIUM G-LS (PPG-TF 255)	84	5.4	6.8	4.1	5.5
TITAN MAX (TF456)	130	5.4	6.8	4.2	5.5
SERENADE (PPG-TF 320)	119	5.4	6.8	4.1	5.5
TITAN GLX (TF445)	129	5.4	6.8	4.1	5.5
XANADU (JT 268 )	75	5.4	6.8	4.1	5.4
EXPANSE (PPG-TF 262)	67	5.4	6.8	4.1	5.4
PROVIDENCE (GO-RH20)	99	5.4	6.8	4.1	5.4
NT-3	8	5.4	6.8	4.1	5.4
ROWDIER (DLFPS-321/3699)	20	5.4	6.7	4.1	5.4
DLFPS-321/3708	62	5.4	6.8	4.1	5.4
BLADERUNNER 3 (DLFPS-321/3701)	34	5.4	6.7	4.1	5.4
TYCOON (COL-TF-148)	28	5.4	6.7	4.1	5.4
RACEWAY (DLFPS-321/3696)	19	5.3	6.7	4.1	5.4
AVENGER III (PPG-TF 308)	83	5.4	6.7	4.1	5.4
SYMPHONY (PPG-TF 305)	77	5.4	6.7	4.1	5.4
PST-5DZM	48	5.3	6.7	4.1	5.4
CAPITAN (DLFPS-321/3705)	59	5.4	6.7	4.1	5.4
EXTRAVAGANZA (PST-5MCMO)	39	5.3	6.7	4.1	5.4
ROVER (PPG-TF 306)	91	5.3	6.7	4.1	5.4
KIZZLE (K18-ROE)	31	5.3	6.7	4.1	5.4
NAI-ST5	105	5.3	6.7	4.1	5.4
LIFEGUARD	44	5.3	6.7	4.1	5.4
SOUTHSIDE (PPG-TF 267)	68	5.3	6.7	4.0	5.4
GLX REVIVE (PST-5GLBS)	49	5.3	6.7	4.1	5.4
CLASH (AH1)	65	5.3	6.7	4.0	5.4
DYNAMITE G-LS (PPG-TF 254)	82	5.3	6.7	4.1	5.4
PPG-TF 249	66	5.3	6.7	4.1	5.4
TANK (PPG-TF 338)	121	5.3	6.7	4.0	5.4
STEALTH (PPG-TF 238)	81	5.3	6.7	4.0	5.4
PPG-TF 337	88	5.3	6.7	4.0	5.3
SPYDER 2LS (ZRC1)	89	5.3	6.7	4.0	5.3
TEACHER (PPG-TF 313)	118	5.3	6.7	4.0	5.3
FALCON SUPREME (RH1)	72	5.3	6.7	4.0	5.3
TD2	18	5.3	6.7	4.0	5.3
DRAGSTER	98	5.3	6.7	4.0	5.3
HELLCAT GLR (PST-5E6)	41	5.3	6.7	4.1	5.3
VALSETZ (PPG-TF 257)	80	5.3	6.7	4.0	5.3
DAYBREAK (AH2)	69	5.3	6.7	4.0	5.3
GALLARDO (DLFPS-TF/3550)	13	5.3	6.7	4.0	5.3
FIRENZA II (PPG-TF 244)	76	5.3	6.7	4.0	5.3
BONFIRE (JS DTT)	24	5.3	6.7	4.0	5.3
JT 517	23	5.3	6.7	4.1	5.3
TRIAD (PPG-TF 323)	120	5.3	6.7	4.0	5.3
RDC	25	5.3	6.7	4.0	5.3
GLX ACED (PST-5DART)	50	5.3	6.7	4.0	5.3
PST-5DC24	51	5.2	6.6	4.1	5.3
FASTLANE (BY-TF-169)	33	5.3	6.7	4.0	5.3
DEGAS (LTP-TF-111)	30	5.3	6.7	4.0	5.3

TABLE 17. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2023 DATA

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

NAME	ENTRY #	OK1	MI1	MS1	MEAN
RS1	9	5.3	6.7	4.0	5.3
ATF1768	12	5.2	6.6	4.0	5.3
BULLSEYE LTZ	96	5.3	6.6	4.0	5.3
PST-5GQ	38	5.2	6.6	4.0	5.3
BENTLEY (DLFPS-321/3679)	16	5.2	6.6	4.0	5.3
RAPTOR LS (PPG-TF 336)	87	5.3	6.6	4.0	5.3
ESSENTIAL 2 (DLFPS-TF/3552)	14	5.3	6.6	4.0	5.3
GEM (PPG-TF 316)	78	5.3	6.6	4.0	5.3
PST-5TRN	37	5.2	6.6	4.0	5.3
ORIOLE (PST-5BYOB)	43	5.2	6.6	4.0	5.3
SR 8700 (TMT1)	6	5.2	6.6	4.0	5.3
ZION (BAR TF 134)	63	5.2	6.6	4.0	5.3
RAPTOR III	116	5.2	6.6	4.0	5.3
FIREHAWK SLT	94	5.2	6.6	4.0	5.3
SETFM3	111	5.2	6.6	4.0	5.3
DLFPS-321/3707	61	5.3	6.6	3.9	5.3
3B2	112	5.2	6.6	4.0	5.3
PPG-TF 318	92	5.2	6.6	4.0	5.3
O'KEEFE (LTP-TF-122)	29	5.2	6.6	4.0	5.3
TAR HEEL III (PST-5THM)	42	5.2	6.6	4.0	5.3
ATF2116	7	5.2	6.6	4.0	5.3
FINELAWN SUPREME (RH3)	73	5.2	6.6	3.9	5.3
HOUNDOG NINE (DLFPS-321/3702)	35	5.2	6.6	3.9	5.3
HEMI	95	5.2	6.6	4.0	5.3
FIERCE (K18-RS6)	70	5.2	6.6	3.9	5.2
PPG-TF 231	90	5.2	6.6	3.9	5.2
GALACTIC (SESCR1)	108	5.2	6.6	3.9	5.2
RHF	117	5.2	6.6	3.9	5.2
DLFPS-321/3706	60	5.2	6.6	3.9	5.2
5LSS	10	5.2	6.6	3.9	5.2
DLFPS-321/3693	3	5.2	6.6	3.9	5.2
BATTLE HAWK (NAI-ROS4)	103	5.2	6.6	3.9	5.2
DLFPS-TF/3553	15	5.2	6.6	3.9	5.2
RHL2	115	5.2	6.6	3.9	5.2
FIRECRACKER G-LS (PPG-TF 315)	86	5.2	6.6	3.9	5.2
PRO GOLD	40	5.1	6.5	3.9	5.2
BRAVO 2	57	5.1	6.5	3.9	5.2
RAD-TF105	113	5.1	6.5	3.9	5.2
LAFAYETTE (GO-AOMK)	101	5.1	6.5	3.9	5.2
NATURALLY GREEN	1	5.1	6.5	4.0	5.2
MOONDANCE GLX	46	5.1	6.5	3.9	5.2
GRO-PRO (SE53D2)	106	5.1	6.5	3.9	5.2
PADRE 2	56	5.1	6.5	3.9	5.2
BAR-FA8230	64	5.1	6.5	4.0	5.2
JT 233	74	5.1	6.5	3.9	5.2
TANGO	52	5.1	6.5	3.9	5.2
FAYETTE	22	5.1	6.5	3.9	5.2
DLFPS-321/3695	5	5.1	6.5	3.8	5.2

TABLE 17. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2023 DATA

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

NAME	ENTRY #	OK1	MI1	MS1	MEAN
RC4	79	5.2	6.5	3.8	5.2
PST-5MINK	45	5.1	6.5	3.9	5.2
TOUGH (NAI-TUE)	104	5.1	6.5	3.9	5.1
ENDGAME (3N1)	53	5.1	6.5	3.8	5.1
DLFPS-321/3703	36	5.1	6.5	3.8	5.1
TALLADEGA II (NAI-3N2)	102	5.1	6.5	3.8	5.1
MONUMENT (PST-5SQB)	47	5.1	6.5	3.9	5.1
TOPSHELF (BGR-TF3)	11	5.0	6.4	3.9	5.1
K18-WB1	71	5.1	6.5	3.8	5.1
ESCALADE	127	5.0	6.4	3.9	5.1
PARAMOUNT	2	5.1	6.5	3.8	5.1
ESTRENA	122	5.1	6.4	3.8	5.1
DLFPS-321/3694	4	5.1	6.5	3.8	5.1
FAIRFIELD (SETF104)	109	5.1	6.4	3.8	5.1
NAI-FQZ-17	58	5.0	6.4	3.9	5.1
SETFM2	110	5.0	6.4	3.8	5.1
A-TF31	125	5.0	6.4	3.8	5.1
LBF	17	5.0	6.4	3.8	5.1
BANDIT	54	5.0	6.4	3.8	5.1
COPIOUS TF	55	5.0	6.4	3.8	5.1
AST8218LM	124	5.0	6.4	3.8	5.0
BAR FA 8228	27	4.9	6.4	3.8	5.0
BIRMINGHAM	100	5.0	6.4	3.8	5.0
AST8118LM	123	5.0	6.4	3.8	5.0
GRANDE 3	21	5.0	6.4	3.7	5.0
PPG-TF 312	85	5.0	6.4	3.7	5.0
K18-NSE	32	5.0	6.4	3.7	5.0
BARNOBLE (BAR 9FE MAS)	26	4.9	6.3	3.8	5.0
BULLSEYE	93	4.9	6.3	3.7	5.0
SE5STAR	107	4.9	6.3	3.8	5.0
GRAND PRIX (FC15-01P)	131	4.9	6.3	3.8	5.0
PALOMAR	126	4.8	6.2	3.7	4.9
OG-WALK	128	4.8	6.2	3.7	4.9
RAD-TF131	114	4.7	6.1	3.5	4.8
RAD-TF 115 (TURBO SS)	97	4.7	6.1	3.5	4.8
KENTUCKY-31	132	4.0	5.4	2.9	4.1
LSD VALUE		0.8	0.8	0.8	0.8
C.V. (%)		9.1	7.2	12.0	9.0

\* 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](http://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 18. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 \*/  
2023 DATA

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

NAME	ENTRY #	IA1	TN1	ON1	MEAN
PST-5DZM	48	6.8	6.9	6.1	6.6
ESCALADE	127	6.6	6.7	6.4	6.6
JT 517	23	6.7	6.8	6.1	6.5
BAR-FA8230	64	6.6	6.7	6.2	6.5
ATF2116	7	6.6	6.8	6.1	6.5
BAR FA 8228	27	6.5	6.6	6.4	6.5
NATURALLY GREEN	1	6.6	6.7	6.2	6.5
PST-5DC24	51	6.7	6.8	6.0	6.5
EXTRAVAGANZA (PST-5MCMO)	39	6.7	6.8	5.9	6.5
SETFM3	111	6.6	6.8	6.0	6.5
TANGO	52	6.6	6.7	6.1	6.4
ROWDIER (DLFPS-321/3699)	20	6.7	6.8	5.8	6.4
ORIOLE (PST-5BYOB)	43	6.6	6.8	5.9	6.4
BRAVO 2	57	6.6	6.7	6.0	6.4
TAR HEEL III (PST-5THM)	42	6.6	6.7	5.9	6.4
ATF1768	12	6.6	6.8	5.9	6.4
GLX REVIVE (PST-5GLBS)	49	6.7	6.8	5.8	6.4
TITAN MAX (TF456)	130	6.7	6.9	5.7	6.4
BARNOBLE (BAR 9FE MAS)	26	6.4	6.6	6.2	6.4
RACEWAY (DLFPS-321/3696)	19	6.7	6.8	5.7	6.4
MOONDANCE GLX	46	6.6	6.7	5.9	6.4
PRO GOLD	40	6.6	6.7	5.9	6.4
OG-WALK	128	6.4	6.5	6.2	6.4
TOPSHELF (BGR-TF3)	11	6.5	6.6	6.0	6.4
LIFEGUARD	44	6.7	6.8	5.7	6.4
PST-5MINK	45	6.5	6.7	5.9	6.4
LAFAYETTE (GO-AOMK)	101	6.5	6.7	5.9	6.4
KIZZLE (K18-ROE)	31	6.7	6.8	5.7	6.4
NAI-FQZ-17	58	6.5	6.6	6.0	6.4
BENTLEY (DLFPS-321/3679)	16	6.6	6.7	5.7	6.4
BLADERUNNER 3 (DLFPS-321/3701)	34	6.7	6.8	5.6	6.4
HELLCAT GLR (PST-5E6)	41	6.6	6.8	5.6	6.3
PALOMAR	126	6.4	6.5	6.1	6.3
PPG-TF 249	66	6.6	6.8	5.6	6.3
TITAN GLX (TF445)	129	6.7	6.8	5.5	6.3
AST8118LM	123	6.4	6.6	6.0	6.3
GRO-PRO (SE53D2)	106	6.5	6.6	5.8	6.3
GRAND PRIX (FC15-01P)	131	6.4	6.5	6.0	6.3
BANDIT	54	6.5	6.6	5.9	6.3
AST8218LM	124	6.4	6.6	5.9	6.3
PST-5GQ	38	6.6	6.7	5.6	6.3
TOUGH (NAI-TUE)	104	6.5	6.6	5.8	6.3
BIRMINGHAM	100	6.4	6.6	5.9	6.3
3B2	112	6.6	6.7	5.6	6.3
SETFM2	110	6.5	6.6	5.8	6.3
TITANIUM G-LS (PPG-TF 255)	84	6.7	6.8	5.4	6.3
NAI-ST5	105	6.6	6.7	5.5	6.3
DRAGSTER	98	6.6	6.7	5.5	6.3



TABLE 18. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 \*/  
 2023 DATA

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

NAME	ENTRY #	IA1	TN1	ON1	MEAN
A-TF31	125	6.5	6.6	5.8	6.3
PST-5TRN	37	6.6	6.7	5.6	6.3
NT-3	8	6.6	6.8	5.4	6.3
GLX ACED (PST-5DART)	50	6.6	6.7	5.5	6.3
CAPITAN (DLFPS-321/3705)	59	6.6	6.7	5.4	6.3
SERENADE (PPG-TF 320)	119	6.7	6.8	5.3	6.3
RAD-TF105	113	6.5	6.6	5.6	6.3
FAYETTE	22	6.5	6.6	5.7	6.3
DYNAMITE G-LS (PPG-TF 254)	82	6.6	6.7	5.4	6.3
MONUMENT (PST-5SQB)	47	6.5	6.6	5.7	6.3
FASTLANE (BY-TF-169)	33	6.6	6.7	5.5	6.3
XANADU (JT 268 )	75	6.7	6.8	5.3	6.2
AVENGER III (PPG-TF 308)	83	6.6	6.7	5.4	6.2
DLFPS-321/3708	62	6.6	6.7	5.3	6.2
TANK (PPG-TF 338)	121	6.6	6.7	5.4	6.2
SYMPHONY (PPG-TF 305)	77	6.6	6.7	5.3	6.2
PPG-TF 337	88	6.6	6.7	5.4	6.2
FIREHAWK SLT	94	6.5	6.7	5.5	6.2
SE5STAR	107	6.4	6.5	5.8	6.2
SR 8700 (TMT1)	6	6.5	6.7	5.5	6.2
ROVER (PPG-TF 306)	91	6.6	6.7	5.3	6.2
TYCOON (COL-TF-148)	28	6.6	6.7	5.3	6.2
PPG-TF 231	90	6.5	6.6	5.5	6.2
COPIOUS TF	55	6.4	6.5	5.7	6.2
HEMI	95	6.5	6.6	5.4	6.2
RDC	25	6.6	6.7	5.4	6.2
FALCON SUPREME (RH1)	72	6.6	6.7	5.3	6.2
ZION (BAR TF 134)	63	6.5	6.7	5.4	6.2
VALSETZ (PPG-TF 257)	80	6.6	6.7	5.3	6.2
RAPTOR LS (PPG-TF 336)	87	6.5	6.7	5.4	6.2
EXPANSE (PPG-TF 262)	67	6.6	6.7	5.2	6.2
LBF	17	6.4	6.5	5.6	6.2
TRIAD (PPG-TF 323)	120	6.5	6.7	5.3	6.2
PADRE 2	56	6.5	6.6	5.5	6.2
DEGAS (LTP-TF-111)	30	6.5	6.7	5.3	6.2
RAPTOR III	116	6.5	6.6	5.4	6.2
TEACHER (PPG-TF 313)	118	6.6	6.7	5.2	6.2
BULLSEYE	93	6.3	6.5	5.6	6.2
PROVIDENCE (GO-RH20)	99	6.6	6.7	5.1	6.2
PPG-TF 318	92	6.5	6.6	5.3	6.2
TD2	18	6.6	6.7	5.2	6.2
O'KEEFE (LTP-TF-122)	29	6.5	6.6	5.3	6.1
GALLARDO (DLFPS-TF/3550)	13	6.5	6.7	5.2	6.1
SOUTHSIDE (PPG-TF 267)	68	6.6	6.7	5.1	6.1
STEALTH (PPG-TF 238)	81	6.5	6.7	5.1	6.1
BONFIRE (JS DTT)	24	6.5	6.7	5.2	6.1
RS1	9	6.5	6.6	5.2	6.1
DLFPS-321/3703	36	6.4	6.5	5.4	6.1

TABLE 18. TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 \*/  
 2023 DATA

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

NAME	ENTRY #	IA1	TN1	ON1	MEAN
ENDGAME (3N1)	53	6.4	6.5	5.4	6.1
ESTRENA	122	6.4	6.5	5.4	6.1
ESSENTIAL 2 (DLFPS-TF/3552)	14	6.5	6.6	5.2	6.1
TALLADEGA II (NAI-3N2)	102	6.4	6.5	5.4	6.1
SPYDER 2LS (ZRC1)	89	6.5	6.7	5.1	6.1
BULLSEYE LTZ	96	6.5	6.6	5.1	6.1
JT 233	74	6.4	6.5	5.3	6.1
FIRECRACKER G-LS (PPG-TF 315)	86	6.4	6.6	5.2	6.1
FIRENZA II (PPG-TF 244)	76	6.5	6.6	5.1	6.1
CLASH (AH1)	65	6.5	6.7	5.0	6.1
HOUND OG NINE (DLFPS-321/3702)	35	6.5	6.6	5.2	6.1
GEM (PPG-TF 316)	78	6.5	6.6	5.1	6.1
FAIRFIELD (SETF104)	109	6.4	6.5	5.3	6.1
PARAMOUNT	2	6.4	6.5	5.3	6.0
DLFPS-321/3706	60	6.4	6.6	5.1	6.0
FINELAWN SUPREME (RH3)	73	6.4	6.6	5.0	6.0
DLFPS-TF/3553	15	6.4	6.5	5.1	6.0
GALACTIC (SESCR1)	108	6.4	6.6	5.1	6.0
FIERCE (K18-RS6)	70	6.4	6.6	5.0	6.0
RHF	117	6.4	6.5	5.0	6.0
DLFPS-321/3693	3	6.4	6.5	5.0	6.0
GRANDE 3	21	6.3	6.4	5.2	6.0
DLFPS-321/3694	4	6.3	6.5	5.1	6.0
BATTLE HAWK (NAI-ROS4)	103	6.4	6.5	5.0	6.0
DLFPS-321/3707	61	6.4	6.6	4.9	6.0
RHL2	115	6.4	6.5	5.0	6.0
DAYBREAK (AH2)	69	6.5	6.6	4.8	6.0
DLFPS-321/3695	5	6.4	6.5	5.0	5.9
5LSS	10	6.4	6.5	4.9	5.9
K18-WB1	71	6.3	6.4	5.0	5.9
PPG-TF 312	85	6.2	6.4	5.0	5.9
RAD-TF131	114	6.1	6.2	5.2	5.8
RC4	79	6.3	6.4	4.7	5.8
RAD-TF 115 (TURBO SS)	97	6.1	6.2	5.2	5.8
KENTUCKY-31	132	5.6	5.8	5.9	5.8
K18-NSE	32	6.2	6.3	4.7	5.7
LSD VALUE		0.8	0.8	0.8	0.8
C.V. (%)		7.3	7.1	8.6	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](http://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 19.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT FOUR LOCATIONS 1/  
IN THE NORTHEAST REGION  
2019-23 DATA

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

NAME	CT1	NJ1	NJ2	PA2	MEAN
DAYBREAK (AH2)	6.8	6.9	7.4	6.9	7.0
CLASH (AH1)	6.6	7.0	6.9	7.0	6.8
FIERCE (K18-RS6)	6.5	7.0	6.7	6.9	6.7
EXPANSE (PPG-TF 262)	6.7	7.2	6.0	6.9	6.7
SPYDER 2LS (ZRC1)	6.6	7.1	6.4	6.7	6.7
FIRENZA II (PPG-TF 244)	6.5	6.7	6.5	6.8	6.6
TYCOON (COL-TF-148)	6.6	6.6	6.7	6.6	6.6
RC4	6.3	7.0	6.3	6.8	6.6
PROVIDENCE (GO-RH20)	6.6	6.9	6.0	6.8	6.6
XANADU (JT 268 )	6.3	7.1	6.0	6.9	6.6
TD2	6.7	6.7	6.2	6.9	6.6
SOUTHSIDE (PPG-TF 267)	6.6	7.3	5.5	6.8	6.6
STEALTH (PPG-TF 238)	6.5	7.0	5.9	6.7	6.5
FINELAWN SUPREME (RH3)	6.4	7.2	5.8	6.8	6.5
DLFPS-321/3693	6.7	6.7	6.0	6.8	6.5
RDC	6.6	6.7	6.1	7.0	6.5
DLFPS-321/3707	6.4	6.7	6.1	6.9	6.5
5LSS	6.6	7.0	6.0	6.3	6.5
BATTLE HAWK (NAI-ROS4)	6.5	6.7	6.1	6.7	6.5
TITANIUM G-LS (PPG-TF 255)	6.5	6.4	6.3	6.8	6.5
RHF	6.5	6.5	6.2	7.0	6.5
TANK (PPG-TF 338)	6.5	7.1	5.6	7.0	6.5
BONFIRE (JS DTT)	6.6	6.1	6.8	6.4	6.5
RHL2	6.5	6.5	6.3	6.6	6.5
GALLARDO (DLFPS-TF/3550)	6.4	6.7	6.0	6.9	6.5
OKEEFE (LTP-TF-122)	6.4	6.8	6.0	6.8	6.5
SERENADE (PPG-TF 320)	6.5	6.7	5.9	6.9	6.5
TEACHER (PPG-TF 313)	6.5	6.7	6.0	6.8	6.5
K18-NSE	6.4	6.7	6.1	6.9	6.5
RAPTOR LS (PPG-TF 336)	6.6	6.5	6.1	6.7	6.4
BULLSEYE LTZ	6.4	7.1	5.5	6.9	6.4
TITAN GLX (TF445)	6.4	6.2	6.4	6.8	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.4	6.6	6.2	6.8	6.4
ROVER (PPG-TF 306)	6.4	6.6	6.0	6.8	6.4
DYNAMITE G-LS (PPG-TF 254)	6.3	6.5	6.1	6.7	6.4
DLFPS-321/3695	6.5	6.1	6.2	6.9	6.4
ZION (BAR TF 134)	6.4	6.0	6.4	6.8	6.3
PPG-TF 249	6.4	6.2	6.1	6.9	6.3
FIRECRACKER G-LS (PPG-TF 315)	6.5	6.2	6.0	6.8	6.3
GEM (PPG-TF 316)	6.3	6.3	6.0	6.8	6.3
DLFPS-TF/3553	6.5	6.5	5.6	6.8	6.3
PPG-TF 231	6.6	7.0	5.1	6.9	6.3
AVENGER III (PPG-TF 308)	6.4	6.5	5.8	6.7	6.3
TRIAD (PPG-TF 323)	6.3	6.4	5.9	6.8	6.3

TABLE 19.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT FOUR LOCATIONS 1/  
IN THE NORTHEAST REGION  
2019-23 DATA

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

NAME	CT1	NJ1	NJ2	PA2	MEAN
VALSETZ (PPG-TF 257)	6.3	6.3	6.0	6.7	6.3
RS1	6.5	5.9	6.2	6.7	6.3
DEGAS (LTP-TF-111)	6.4	6.1	6.1	6.7	6.3
DLFPS-321/3708	6.5	6.1	5.8	6.9	6.3
SYMPHONY (PPG-TF 305)	6.3	6.1	5.9	6.9	6.3
SR 8700 (TMT1)	6.4	5.7	6.3	7.0	6.3
NT-3	6.6	6.1	5.8	6.7	6.3
K18-WB1	6.4	6.6	5.7	6.6	6.3
PARAMOUNT	6.5	6.7	5.2	6.8	6.2
JT 233	6.2	6.6	5.6	6.7	6.2
FALCON SUPREME (RH1)	6.1	6.5	5.7	6.9	6.2
TITAN MAX (TF456)	6.3	6.5	5.6	6.7	6.2
DLFPS-321/3694	6.3	6.2	5.8	6.7	6.2
PPG-TF 318	6.4	6.0	6.1	6.7	6.2
GALACTIC (SESCR1)	6.3	5.9	5.9	6.9	6.2
PPG-TF 312	6.6	6.2	5.8	6.5	6.2
NAI-ST5	6.4	6.0	5.8	6.8	6.2
CAPITAN (DLFPS-321/3705)	6.5	5.6	6.4	6.6	6.2
HOUND OG NINE (DLFPS-321/3702)	6.2	6.4	5.6	6.7	6.2
RACEWAY (DLFPS-321/3696)	6.2	6.5	5.5	6.9	6.2
BLADERUNNER 3 (DLFPS-321/3701)	6.4	6.5	5.3	6.6	6.2
DLFPS-321/3706	6.4	6.2	5.5	6.8	6.1
PPG-TF 337	6.4	6.3	5.6	6.4	6.1
DRAGSTER	6.3	5.6	6.1	6.8	6.1
TALLADEGA II (NAI-3N2)	6.4	6.5	5.1	6.7	6.1
RAPTOR III	6.3	6.3	5.3	6.8	6.1
ROWDIER (DLFPS-321/3699)	6.3	5.9	5.7	6.8	6.1
FASTLANE (BY-TF-169)	6.1	5.7	6.0	6.7	6.1
GLX ACED (PST-5DART)	6.1	5.9	5.8	6.6	6.1
ESTRENA	6.2	6.9	4.5	6.6	6.0
DLFPS-321/3703	6.2	6.8	4.3	6.8	5.9
PADRE 2	6.2	6.4	4.8	6.7	5.9
FIREHAWK SLT	6.2	6.2	4.7	6.7	5.9
KIZZLE (K18-ROE)	6.3	5.9	5.0	6.7	5.9
ENDGAME (3N1)	6.2	6.3	4.5	6.9	5.9
BENTLEY (DLFPS-321/3679)	6.3	5.9	4.9	6.7	5.8
FAIRFIELD (SETF104)	6.5	5.7	4.7	6.7	5.8
HEMI	6.3	5.5	5.2	6.5	5.8
GRANDE 3	6.3	4.9	5.6	6.7	5.8
RAD-TF105	6.3	5.3	5.1	6.8	5.8
3B2	6.2	5.7	4.8	6.7	5.8
PST-5GQ	6.0	5.2	5.2	6.6	5.7
EXTRAVAGANZA (PST-5MCMO)	6.1	5.0	5.4	6.7	5.7
PST-5TRN	6.1	5.3	5.2	6.4	5.7
GLX REVIVE (PST-5GLBS)	6.2	4.7	5.4	6.5	5.6

TABLE 19.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT FOUR LOCATIONS 1/  
IN THE NORTHEAST REGION  
2019-23 DATA  
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CT1	NJ1	NJ2	PA2	MEAN
LIFEGUARD	6.0	5.0	5.2	6.6	5.6
FAYETTE	6.1	5.9	4.3	6.4	5.6
HELLCAT GLR (PST-5E6)	6.1	5.0	5.1	6.5	5.6
TOUGH (NAI-TUE)	6.2	5.0	4.9	6.9	5.6
COPIOUS TF	6.3	4.8	4.6	6.8	5.5
MONUMENT (PST-5SQB)	6.0	5.2	4.6	6.5	5.5
PRO GOLD	6.0	5.4	4.4	6.6	5.5
ORIOLE (PST-5BYOB)	6.0	5.2	4.6	6.5	5.4
GRO-PRO (SE53D2)	6.1	4.8	4.9	6.5	5.4
LAFAYETTE (GO-AOMK)	5.8	5.7	3.9	6.7	5.4
A-TF31	5.9	5.4	4.1	6.7	5.4
PST-5DZM	6.0	5.1	4.4	6.5	5.4
BULLSEYE	6.3	4.8	4.3	6.6	5.4
MOONDANCE GLX	6.2	4.7	4.6	6.4	5.3
LBF	6.0	4.7	4.3	6.8	5.3
SETFM3	6.2	4.7	4.3	6.6	5.3
PST-5DC24	6.0	4.9	4.1	6.7	5.3
ATF1768	6.0	4.2	4.9	6.6	5.3
PST-5MINK	6.0	4.5	4.5	6.6	5.3
TAR HEEL III (PST-5THM)	6.1	4.0	4.9	6.5	5.3
TANGO	5.9	4.8	4.0	6.8	5.2
BRAVO 2	5.9	5.2	3.7	6.6	5.2
TOPSHELF (BGR-TF3)	6.2	4.6	3.9	6.7	5.2
BIRMINGHAM	5.8	5.0	3.9	6.6	5.2
RAD-TF131	5.9	5.0	3.5	6.8	5.2
JT 517	6.2	4.6	3.8	6.7	5.2
AST8118LM	5.9	5.0	3.6	6.8	5.1
SE5STAR	6.0	4.8	3.9	6.5	5.1
SETFM2	5.9	4.5	3.7	6.7	5.1
AST8218LM	5.8	4.1	4.2	6.8	5.0
NAI-FQZ-17	6.0	4.6	3.4	6.7	5.0
NATURALLY GREEN	6.1	4.0	3.9	6.7	5.0
BANDIT	6.0	4.4	3.5	6.8	5.0
RAD-TF 115 (TURBO SS)	6.0	4.2	3.8	6.3	5.0
ATF2116	5.9	4.1	4.0	6.5	4.9
BAR-FA8230	5.9	3.4	4.1	6.6	4.8
GRAND PRIX (FC15-01P)	5.7	3.8	3.5	6.3	4.7
ESCALADE	5.9	3.5	3.3	6.3	4.6
BARNOBLE (BAR 9FE MAS)	5.8	2.7	4.0	6.6	4.5
PALOMAR	5.6	2.8	3.6	6.6	4.4
BAR FA 8228	5.7	2.9	3.2	6.5	4.3
OG-WALK	5.8	2.8	3.1	6.1	4.2
KENTUCKY-31	4.6	1.1	1.2	4.5	2.6
LSD VALUE	0.5	1.4	0.9	0.5	0.5
C.V. (%)	5.2	15.1	11.1	4.8	10.1

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

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

TABLE 20.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT NINE LOCATIONS 1/  
IN THE TRANSITION REGION  
2019-23 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									MEAN
	DE1	KS1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	
DAYBREAK (AH2)	7.3	5.2	6.2	7.2	6.2	6.0	5.5	7.0	6.4	6.4
TITANIUM G-LS (PPG-TF 255)	6.8	5.2	6.3	7.1	6.3	5.8	5.7	7.0	6.8	6.3
CAPITAN (DLFPS-321/3705)	7.0	4.9	6.4	7.1	5.8	6.5	5.7	6.8	6.6	6.3
PROVIDENCE (GO-RH20)	6.9	4.8	6.0	7.0	6.2	6.3	5.6	6.9	6.4	6.3
TITAN GLX (TF445)	6.9	5.5	6.1	7.0	5.4	5.8	5.4	6.8	7.0	6.3
TD2	7.1	4.6	6.2	7.2	5.8	5.6	5.5	7.0	7.1	6.3
SPYDER 2LS (ZRC1)	7.0	5.2	6.3	7.2	6.4	5.5	5.5	6.8	6.5	6.3
FALCON SUPREME (RH1)	6.7	5.2	6.2	6.8	5.6	6.4	5.5	7.0	6.4	6.2
EXPANSE (PPG-TF 262)	6.9	4.8	6.3	7.4	6.0	5.7	5.4	6.9	6.5	6.2
FIERCE (K18-RS6)	7.0	5.2	6.2	7.1	6.1	5.9	5.2	6.9	6.2	6.2
SERENADE (PPG-TF 320)	6.8	4.9	6.1	7.0	5.9	5.8	5.6	6.6	7.0	6.2
XANADU (JT 268 )	7.0	5.5	6.2	7.0	6.4	5.7	5.6	6.2	6.3	6.2
BONFIRE (JS DTT)	6.8	5.1	6.2	7.1	6.1	5.7	5.6	6.7	6.5	6.2
GEM (PPG-TF 316)	6.9	5.1	6.4	7.1	5.7	5.8	5.5	6.7	6.5	6.2
RS1	6.9	5.0	6.3	6.8	6.2	5.5	5.3	6.8	6.9	6.2
ROVER (PPG-TF 306)	6.9	4.6	6.2	7.2	5.5	5.9	5.3	7.0	6.8	6.2
TRIAD (PPG-TF 323)	6.8	5.3	6.3	7.0	5.6	5.7	5.5	6.8	6.4	6.2
AVENGER III (PPG-TF 308)	7.1	4.7	6.0	7.1	5.7	5.7	5.5	6.8	6.5	6.2
FINELAWN SUPREME (RH3)	6.9	4.9	6.2	6.9	6.1	5.7	5.5	6.8	6.5	6.2
PPG-TF 337	7.0	4.9	6.2	7.1	5.2	5.6	5.5	6.8	6.8	6.2
FASTLANE (BY-TF-169)	6.9	5.1	6.3	7.2	6.0	4.8	5.7	6.9	6.6	6.2
TITAN MAX (TF456)	6.8	4.9	6.2	6.9	5.8	5.7	5.5	6.7	6.6	6.2
GALLARDO (DLFPS-TF/3550)	6.8	5.0	6.2	6.7	5.7	5.6	5.7	6.5	6.9	6.2
SOUTHSIDE (PPG-TF 267)	6.8	5.2	6.3	7.1	5.8	5.7	5.5	6.7	6.2	6.2
GALACTIC (SESCR1)	6.6	4.7	6.3	6.9	5.5	6.1	5.6	6.7	6.6	6.1
TANK (PPG-TF 338)	6.8	4.9	6.2	7.0	6.0	5.7	5.6	7.0	6.1	6.1
RAPTOR LS (PPG-TF 336)	7.0	4.8	6.4	7.4	5.6	5.1	5.3	6.9	6.7	6.1
RHL2	6.7	5.3	6.4	7.2	5.7	5.4	4.9	7.0	6.6	6.1
DYNAMITE G-LS (PPG-TF 254)	6.9	5.1	6.2	7.0	5.7	5.2	5.6	6.9	6.4	6.1
FIRENZA II (PPG-TF 244)	6.6	4.4	6.2	6.8	5.8	6.2	5.8	6.4	6.8	6.1
BLADERUNNER 3 (DLFPS-321/3701)	7.0	4.7	6.2	6.7	6.0	5.2	5.6	6.6	7.0	6.1
STEALTH (PPG-TF 238)	7.0	4.9	6.3	7.0	5.7	5.6	5.7	6.5	6.4	6.1
BULLSEYE LTZ	6.8	4.4	6.3	6.8	5.6	5.5	5.5	6.9	6.9	6.1
DLFPS-321/3708	6.8	4.3	6.1	6.8	5.1	5.3	5.7	7.1	6.9	6.1
FIRECRACKER G-LS (PPG-TF 315)	6.8	4.6	6.1	7.1	5.9	5.1	5.7	6.9	6.4	6.1
NT-3	7.0	5.1	6.2	7.0	5.2	5.4	5.0	6.8	6.6	6.1
PPG-TF 318	6.7	4.8	6.1	7.1	5.0	5.6	5.6	6.7	6.6	6.1
RDC	6.8	4.9	6.3	6.9	5.9	5.2	5.5	6.8	6.4	6.1
DEGAS (LTP-TF-111)	6.7	4.6	6.2	7.0	5.2	5.4	5.5	6.8	6.8	6.1
RC4	6.8	4.9	6.4	7.1	5.1	5.3	5.6	6.7	6.5	6.1
ZION (BAR TF 134)	6.7	4.9	6.1	7.1	5.4	5.2	5.4	6.8	6.6	6.1
DLFPS-321/3707	6.8	4.3	6.1	7.1	5.5	5.8	5.2	6.7	6.6	6.1
SYMPHONY (PPG-TF 305)	6.8	4.5	6.1	6.9	5.8	5.2	5.7	6.5	6.8	6.1
ROWDIER (DLFPS-321/3699)	6.8	4.7	6.2	7.0	5.7	5.1	5.7	7.1	6.3	6.1

TABLE 20.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT NINE LOCATIONS 1/  
IN THE TRANSITION REGION  
2019-23 DATA

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

NAME	DE1	KS1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
ESSENTIAL 2 (DLFPS-TF/3552)	6.8	4.5	6.3	6.7	5.2	5.7	5.6	6.7	6.7	6.1
K18-WB1	6.8	4.8	6.2	7.0	5.7	5.3	5.3	6.8	6.3	6.1
HOUNDG NINE (DLFPS-321/3702)	6.9	4.9	6.2	6.6	6.1	4.8	5.6	6.7	6.7	6.1
HELLCAT GLR (PST-5E6)	6.9	5.4	6.0	6.5	4.8	5.8	5.2	6.8	6.4	6.0
DLFPS-TF/3553	6.8	4.7	6.3	6.9	5.3	5.3	5.4	6.7	6.7	6.0
TEACHER (PPG-TF 313)	6.9	4.7	6.2	7.2	6.2	4.9	5.0	7.0	6.2	6.0
VALSETZ (PPG-TF 257)	6.7	4.5	6.2	6.9	5.0	5.4	5.8	7.1	6.3	6.0
LIFEGUARD	6.8	4.9	6.0	6.9	5.4	5.3	5.6	6.8	6.4	6.0
EXTRAVAGANZA (PST-5MCMO)	6.7	4.8	6.0	6.7	4.7	5.6	5.6	7.1	6.4	6.0
NAI-ST5	6.6	4.3	6.3	7.0	5.8	5.9	5.5	6.5	6.3	6.0
BATTLE HAWK (NAI-ROS4)	6.9	4.0	6.3	6.5	5.8	5.5	5.4	7.0	6.8	6.0
DLFPS-321/3706	6.6	4.4	6.2	7.0	5.4	5.0	5.5	7.0	6.7	6.0
KIZZLE (K18-ROE)	6.6	4.7	6.1	6.6	5.8	5.5	5.8	6.7	6.2	6.0
PST-5TRN	6.6	4.6	6.0	6.7	5.5	5.8	5.7	6.5	6.4	6.0
DLFPS-321/3695	6.9	4.1	6.4	6.7	5.7	5.1	5.7	6.9	6.6	6.0
RHF	6.8	5.0	6.1	6.7	6.1	5.6	5.2	6.5	6.0	6.0
PADRE 2	6.7	3.9	6.1	6.9	5.8	5.4	5.5	6.9	6.6	6.0
DRAGSTER	6.8	4.8	6.2	6.8	5.3	5.3	5.4	6.9	6.2	6.0
TYCOON (COL-TF-148)	6.9	4.2	6.3	7.1	5.8	5.2	5.3	7.0	6.3	6.0
OKEEFE (LTP-TF-122)	6.9	4.5	6.3	7.1	5.4	5.0	5.7	6.6	6.4	6.0
SR 8700 (TMT1)	6.8	4.2	6.2	6.6	6.1	5.1	5.6	6.9	6.5	6.0
PPG-TF 249	6.7	4.4	6.3	6.8	5.9	4.8	5.7	6.7	6.4	6.0
CLASH (AH1)	6.8	3.9	6.3	6.8	6.2	5.7	5.5	6.8	5.9	6.0
DLFPS-321/3693	6.9	4.0	6.4	7.1	5.7	4.9	5.4	6.8	6.5	6.0
HEMI	6.8	4.6	6.2	6.7	5.8	5.2	5.1	6.9	6.4	6.0
GLX REVIVE (PST-5GLBS)	6.5	4.9	6.0	6.4	5.6	5.7	5.6	6.8	5.9	6.0
5LSS	7.1	4.6	6.0	6.6	5.0	5.0	4.9	6.7	7.1	6.0
PPG-TF 312	7.1	4.2	6.4	7.1	5.5	4.5	5.0	6.8	6.9	6.0
RACEWAY (DLFPS-321/3696)	6.7	4.9	6.0	6.7	5.6	5.0	5.4	7.0	6.1	5.9
RAPTOR III	6.7	4.5	6.2	6.9	5.8	5.0	5.3	6.9	6.2	5.9
BENTLEY (DLFPS-321/3679)	6.6	5.1	5.9	6.9	5.1	4.5	5.7	6.8	6.2	5.9
ORIOLE (PST-5BYOB)	6.8	4.1	6.1	6.5	5.4	5.6	5.6	6.7	6.3	5.9
K18-NSE	7.0	4.4	6.3	7.0	5.9	4.9	4.9	6.9	6.0	5.9
GLX ACED (PST-5DART)	6.7	4.3	6.2	6.7	5.1	5.5	5.7	6.6	6.2	5.9
JT 233	6.8	4.2	6.1	6.5	6.0	5.4	5.3	6.7	6.3	5.9
3B2	6.8	4.3	6.1	6.8	5.5	5.1	5.8	6.7	6.0	5.9
FIREHAWK SLT	6.8	4.5	6.3	6.8	5.6	4.7	5.2	7.0	6.0	5.9
PARAMOUNT	6.6	4.0	6.1	6.8	5.7	5.0	5.4	6.8	6.5	5.9
TAR HEEL III (PST-5THM)	6.6	4.6	5.9	6.4	5.1	5.7	5.5	6.8	5.8	5.9
ENDGAME (3N1)	6.7	4.1	6.0	6.6	5.2	5.2	5.4	6.6	6.8	5.9
DLFPS-321/3703	6.6	4.4	6.1	6.6	5.5	4.8	5.2	6.9	6.4	5.9
TALLADEGA II (NAI-3N2)	6.7	3.6	6.3	6.7	5.9	5.1	5.6	6.8	6.2	5.8
ATF1768	6.8	4.1	5.9	6.3	5.2	5.3	5.3	6.8	6.5	5.8
PPG-TF 231	6.5	3.7	6.4	6.9	5.3	4.6	5.5	6.8	6.8	5.8
TOUGH (NAI-TUE)	6.6	4.0	6.3	6.4	5.6	5.6	5.3	6.5	6.2	5.8

TABLE 20.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT NINE LOCATIONS 1/  
IN THE TRANSITION REGION  
2019-23 DATA

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

NAME	DE1	KS1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
GRANDE 3	6.6	4.1	6.0	6.9	5.6	5.0	5.3	6.6	6.0	5.8
RAD-TF105	6.6	4.7	6.0	6.6	5.1	5.1	4.9	6.9	6.0	5.8
ATF2116	6.4	4.4	5.8	6.3	4.6	5.4	5.6	6.7	6.2	5.8
JT 517	6.7	4.2	6.0	6.1	5.2	4.6	5.2	6.9	6.7	5.8
PST-5GQ	6.7	3.9	6.0	6.5	4.9	5.4	5.4	6.5	6.3	5.8
FAIRFIELD (SETF104)	6.6	4.6	5.9	6.4	5.3	4.8	5.1	6.6	6.3	5.8
SETFM3	6.5	4.4	6.0	6.1	4.9	5.1	5.3	6.7	6.3	5.7
PRO GOLD	6.7	4.0	6.0	6.3	5.4	4.9	5.3	7.0	5.9	5.7
DLFPS-321/3694	6.8	3.5	6.2	6.6	5.7	4.6	5.2	6.6	6.3	5.7
BRAVO 2	6.3	3.9	6.0	6.5	5.3	5.1	5.4	6.7	6.3	5.7
FAYETTE	6.3	4.0	6.0	6.3	5.9	4.8	5.7	6.5	6.0	5.7
MOONDANCE GLX	6.5	3.6	6.1	6.1	5.3	5.2	5.8	6.3	6.4	5.7
BAR-FA8230	6.5	4.6	5.8	5.9	5.2	4.5	5.4	6.7	6.5	5.7
PST-5DZM	6.1	4.1	5.9	6.5	5.1	4.8	5.3	6.7	6.0	5.7
GRO-PRO (SE53D2)	6.5	3.8	6.1	6.3	4.9	5.2	5.6	6.4	5.9	5.6
LBF	6.5	4.5	6.1	6.0	5.1	4.5	5.3	6.7	6.1	5.6
PST-5DC24	6.3	4.1	5.9	6.0	5.0	4.8	5.3	6.7	6.2	5.6
NATURALLY GREEN	6.2	4.5	6.0	6.0	5.1	4.7	5.2	6.7	6.0	5.6
ESTRENA	6.5	3.7	6.0	6.4	5.9	4.5	5.2	6.4	5.8	5.6
TANGO	6.4	3.7	5.9	6.2	5.0	5.0	5.1	6.8	5.8	5.6
SE5STAR	6.2	3.9	5.9	6.6	4.7	4.9	5.2	6.4	5.9	5.5
LAFAYETTE (GO-AOMK)	6.2	3.9	5.9	6.2	4.3	4.5	5.4	6.9	6.0	5.5
MONUMENT (PST-5SQB)	6.2	3.7	5.7	6.2	4.7	5.3	5.5	6.2	5.9	5.5
TOPSHELF (BGR-TF3)	6.3	4.4	5.9	5.5	5.0	4.2	5.3	6.9	6.1	5.5
BULLSEYE	6.3	3.8	5.9	6.0	5.1	4.6	5.4	6.7	5.7	5.5
COPIOUS TF	6.5	4.0	5.8	5.8	5.2	4.4	5.0	6.8	6.0	5.5
BIRMINGHAM	6.2	4.1	5.8	5.7	5.5	4.8	5.3	6.6	5.5	5.5
NAI-FQZ-17	6.3	4.0	5.9	5.8	4.7	4.7	5.1	6.5	6.0	5.5
BANDIT	6.7	3.9	5.7	5.8	5.3	4.2	5.4	6.3	5.8	5.5
AST8218LM	6.4	3.9	5.9	5.8	4.8	4.2	5.3	6.7	6.1	5.5
SETFM2	6.3	3.9	5.6	5.7	4.7	4.5	5.2	6.9	6.0	5.5
AST8118LM	6.3	3.9	5.9	5.9	4.7	4.2	5.3	6.9	6.0	5.5
PST-5MINK	6.3	4.2	5.8	5.9	4.6	4.3	5.2	6.7	5.8	5.4
BAR FA 8228	6.2	4.5	5.7	5.9	5.0	4.2	4.9	6.7	5.7	5.4
A-TF31	5.7	4.0	5.7	6.1	4.8	4.2	4.8	6.8	6.0	5.4
BARNOBLE (BAR 9FE MAS)	6.1	4.0	5.6	6.0	5.0	4.3	4.9	6.6	5.8	5.4
ESCALADE	5.9	4.0	5.8	5.5	4.6	4.4	5.4	6.6	5.8	5.4
GRAND PRIX (FC15-01P)	6.1	3.9	5.6	5.7	4.7	4.8	5.1	6.5	5.6	5.4
RAD-TF131	6.4	4.0	6.0	6.0	4.7	3.7	4.2	6.6	6.1	5.3
PALOMAR	6.1	4.1	5.7	5.1	4.8	4.1	5.0	6.5	5.6	5.2
RAD-TF 115 (TURBO SS)	6.4	3.9	5.9	5.9	4.9	3.6	3.6	6.6	6.1	5.2
OG-WALK	5.9	3.9	5.5	5.2	4.6	4.2	5.0	6.7	5.5	5.2
KENTUCKY-31	5.0	3.7	4.2	4.2	4.0	3.9	3.9	6.4	3.8	4.4
LSD VALUE	0.5	1.1	0.4	0.6	1.1	1.0	0.7	0.7	1.1	0.3
C.V. (%)	5.2	14.7	3.7	6.3	12.5	13.0	8.0	6.2	10.3	9.0

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 21.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT TWO LOCATIONS 1/  
IN THE SOUTHEAST REGION  
2019-23 DATA

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

NAME	GA1	MS1	MEAN
FIRENZA II (PPG-TF 244)	7.1	4.7	5.9
TITAN GLX (TF445)	6.9	4.8	5.9
TD2	7.1	4.5	5.8
TYCOON (COL-TF-148)	7.1	4.5	5.8
CLASH (AH1)	7.0	4.6	5.8
GLX REVIVE (PST-5GLBS)	6.9	4.7	5.8
DAYBREAK (AH2)	7.2	4.4	5.8
BLADERUNNER 3 (DLFPS-321/3701)	7.1	4.4	5.8
SYMPHONY (PPG-TF 305)	6.9	4.7	5.8
PPG-TF 337	7.1	4.4	5.8
HOUND OG NINE (DLFPS-321/3702)	7.0	4.5	5.7
TITANIUM G-LS (PPG-TF 255)	6.9	4.5	5.7
BONFIRE (JS DTT)	7.0	4.5	5.7
GALLARDO (DLFPS-TF/3550)	7.0	4.4	5.7
RHF	7.0	4.4	5.7
DLFPS-321/3708	6.8	4.6	5.7
HELLCAT GLR (PST-5E6)	6.6	4.7	5.7
TRIAD (PPG-TF 323)	7.0	4.3	5.7
XANADU (JT 268 )	7.0	4.3	5.7
NAI-ST5	7.1	4.3	5.7
CAPITAN (DLFPS-321/3705)	7.0	4.4	5.7
AVENGER III (PPG-TF 308)	7.0	4.4	5.7
BATTLE HAWK (NAI-ROS4)	7.0	4.3	5.7
RAPTOR III	6.8	4.5	5.7
DEGAS (LTP-TF-111)	6.9	4.4	5.7
PST-5GQ	6.9	4.4	5.6
ZION (BAR TF 134)	6.9	4.4	5.6
TEACHER (PPG-TF 313)	6.8	4.4	5.6
DLFPS-TF/3553	6.8	4.4	5.6
ESSENTIAL 2 (DLFPS-TF/3552)	6.9	4.4	5.6
DYNAMITE G-LS (PPG-TF 254)	7.0	4.2	5.6
EXTRAVAGANZA (PST-5MCMO)	6.7	4.5	5.6
EXPANSE (PPG-TF 262)	7.0	4.2	5.6
FASTLANE (BY-TF-169)	7.1	4.1	5.6
PROVIDENCE (GO-RH20)	6.9	4.3	5.6
SERENADE (PPG-TF 320)	6.9	4.3	5.6
SOUTHSIDE (PPG-TF 267)	6.9	4.2	5.6
TITAN MAX (TF456)	6.7	4.4	5.6
VALSETZ (PPG-TF 257)	7.0	4.1	5.6
ROWDIER (DLFPS-321/3699)	6.9	4.2	5.6
GRANDE 3	6.8	4.3	5.6
PST-5DZM	6.8	4.3	5.6
DLFPS-321/3707	6.8	4.3	5.5
DRAGSTER	6.7	4.4	5.5

TABLE 21.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT TWO LOCATIONS 1/  
IN THE SOUTHEAST REGION  
2019-23 DATA

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

NAME	GA1	MS1	MEAN
RC4	7.0	4.1	5.5
FALCON SUPREME (RH1)	6.8	4.3	5.5
NT-3	6.8	4.3	5.5
FIERCE (K18-RS6)	7.0	4.1	5.5
PPG-TF 249	7.0	4.1	5.5
SPYDER 2LS (ZRC1)	7.0	4.0	5.5
GEM (PPG-TF 316)	6.8	4.2	5.5
FAIRFIELD (SETF104)	7.0	4.1	5.5
BENTLEY (DLFPS-321/3679)	6.7	4.3	5.5
RS1	6.9	4.1	5.5
STEALTH (PPG-TF 238)	7.2	3.8	5.5
KIZZLE (K18-ROE)	6.7	4.3	5.5
BULLSEYE LTZ	6.8	4.2	5.5
DLFPS-321/3695	7.0	3.9	5.5
ATF2116	6.5	4.4	5.5
PST-5DC24	6.6	4.3	5.5
RAPTOR LS (PPG-TF 336)	7.1	3.9	5.5
ROVER (PPG-TF 306)	6.9	4.1	5.5
PST-5TRN	6.8	4.2	5.5
TANK (PPG-TF 338)	6.7	4.2	5.5
TAR HEEL III (PST-5THM)	6.7	4.2	5.5
GLX ACED (PST-5DART)	6.7	4.2	5.4
FIRECRACKER G-LS (PPG-TF 315)	7.0	3.9	5.4
SR 8700 (TMT1)	7.0	3.8	5.4
DLFPS-321/3693	6.7	4.1	5.4
OKEEFE (LTP-TF-122)	6.9	3.9	5.4
GRO-PRO (SE53D2)	6.7	4.1	5.4
RACEWAY (DLFPS-321/3696)	6.7	4.2	5.4
HEMI	6.8	4.0	5.4
5LSS	6.8	4.0	5.4
FIREHAWK SLT	6.9	3.9	5.4
JT 517	6.5	4.3	5.4
BAR-FA8230	6.1	4.5	5.3
ATF1768	6.6	4.0	5.3
GALACTIC (SESCR1)	7.0	3.6	5.3
RDC	6.8	3.8	5.3
DLFPS-321/3706	6.7	3.9	5.3
BAR FA 8228	6.2	4.4	5.3
TANGO	6.6	3.9	5.3
K18-WB1	6.9	3.7	5.3
RHL2	7.0	3.6	5.3
PRO GOLD	6.5	4.1	5.3
FINELAWN SUPREME (RH3)	7.0	3.6	5.3
LAFAYETTE (GO-AOMK)	6.7	3.8	5.3
3B2	6.7	3.8	5.3

TABLE 21.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT TWO LOCATIONS 1/  
IN THE SOUTHEAST REGION  
2019-23 DATA

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

NAME	GA1	MS1	MEAN
LBF	6.4	4.1	5.2
DLFPS-321/3703	6.6	3.9	5.2
SETFM3	6.7	3.8	5.2
LIFEGUARD	6.8	3.6	5.2
ORIOLE (PST-5BYOB)	6.6	3.8	5.2
DLFPS-321/3694	6.9	3.5	5.2
MOONDANCE GLX	6.4	4.0	5.2
JT 233	6.8	3.6	5.2
MONUMENT (PST-5SQB)	6.5	3.8	5.2
PPG-TF 318	6.8	3.4	5.1
PADRE 2	6.6	3.6	5.1
K18-NSE	6.8	3.4	5.1
PPG-TF 231	6.6	3.5	5.1
RAD-TF105	6.7	3.5	5.1
PARAMOUNT	6.5	3.6	5.1
TALLADEGA II (NAI-3N2)	6.6	3.6	5.1
SE5STAR	6.3	3.8	5.1
NATURALLY GREEN	6.3	3.8	5.1
TOUGH (NAI-TUE)	6.7	3.4	5.0
SETFM2	6.3	3.8	5.0
BRAVO 2	6.6	3.4	5.0
RAD-TF131	6.4	3.6	5.0
RAD-TF 115 (TURBO SS)	6.2	3.7	5.0
A-TF31	6.3	3.6	5.0
TOPSHELF (BGR-TF3)	6.3	3.7	5.0
BANDIT	6.3	3.6	4.9
AST8118LM	6.3	3.6	4.9
PPG-TF 312	6.7	3.1	4.9
PST-5MINK	6.2	3.6	4.9
COPIOUS TF	6.3	3.5	4.9
AST8218LM	6.3	3.5	4.9
ENDGAME (3N1)	6.6	3.1	4.9
NAI-FQZ-17	6.2	3.4	4.8
BULLSEYE	6.4	3.3	4.8
GRAND PRIX (FC15-01P)	6.2	3.4	4.8
FAYETTE	6.1	3.5	4.8
ESCALADE	5.9	3.5	4.7
OG-WALK	6.1	3.3	4.7
PALOMAR	5.8	3.6	4.7
BIRMINGHAM	6.3	3.0	4.7
BARNOBLE (BAR 9FE MAS)	6.3	3.0	4.6
ESTRENA	6.0	2.9	4.4
KENTUCKY-31	5.0	3.2	4.1
LSD VALUE	0.5	1.0	0.6
C.V. (%)	5.1	15.7	9.5

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

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

TABLE 22. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
GROWN AT FIVE LOCATIONS 1/  
IN THE NORTH CENTRAL REGION  
2019-23 DATA

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

NAME	IA1	IN1	MI1	NE1	ON1	MEAN
CAPITAN (DLFPS-321/3705)	6.5	6.4	7.2	6.7	6.1	6.6
SOUTHSIDE (PPG-TF 267)	6.5	6.4	6.9	6.6	6.4	6.6
TITAN MAX (TF456)	6.5	6.1	6.9	6.6	6.6	6.5
PPG-TF 249	6.6	6.2	6.8	6.7	6.3	6.5
5LSS	6.4	6.7	7.0	6.4	5.9	6.5
ROVER (PPG-TF 306)	6.5	6.0	7.1	6.5	6.6	6.5
XANADU (JT 268 )	6.6	6.1	6.9	6.6	6.3	6.5
SERENADE (PPG-TF 320)	6.7	6.0	6.6	6.5	6.7	6.5
TEACHER (PPG-TF 313)	6.5	6.1	6.6	6.6	6.6	6.5
EXPANSE (PPG-TF 262)	6.6	6.0	6.9	6.5	6.4	6.5
RHL2	6.6	6.1	6.9	6.5	6.2	6.5
SPYDER 2LS (ZRC1)	6.4	6.1	7.0	6.4	6.5	6.5
TITANIUM G-LS (PPG-TF 255)	6.7	5.9	6.8	6.6	6.3	6.5
GEM (PPG-TF 316)	6.7	6.0	6.8	6.7	6.2	6.5
RACEWAY (DLFPS-321/3696)	6.6	5.9	6.8	6.6	6.5	6.5
NAI-ST5	6.5	5.8	7.1	6.5	6.5	6.5
ENDGAME (3N1)	6.6	5.9	7.0	6.5	6.4	6.5
ZION (BAR TF 134)	6.5	6.1	6.9	6.6	6.3	6.5
VALSETZ (PPG-TF 257)	6.6	6.1	6.7	6.6	6.3	6.4
NT-3	6.6	6.0	6.7	6.6	6.3	6.4
BULLSEYE LTZ	6.6	6.4	6.7	6.5	6.1	6.4
DAYBREAK (AH2)	6.5	6.0	6.9	6.7	6.2	6.4
FIREHAWK SLT	6.6	5.9	6.9	6.6	6.4	6.4
FASTLANE (BY-TF-169)	6.5	5.8	7.0	6.6	6.2	6.4
BLADERUNNER 3 (DLFPS-321/3701)	6.7	6.0	6.9	6.5	6.1	6.4
CLASH (AH1)	6.6	5.9	6.9	6.6	6.1	6.4
FALCON SUPREME (RH1)	6.6	5.8	7.1	6.5	6.1	6.4
3B2	6.5	5.8	7.0	6.5	6.4	6.4
RS1	6.5	5.8	7.2	6.6	6.0	6.4
BONFIRE (JS DTT)	6.6	6.2	6.7	6.6	5.9	6.4
ROWDIER (DLFPS-321/3699)	6.7	5.7	6.9	6.5	6.3	6.4
TRIAD (PPG-TF 323)	6.6	5.7	6.9	6.5	6.6	6.4
TD2	6.6	6.0	7.0	6.5	5.9	6.4
DEGAS (LTP-TF-111)	6.5	6.2	6.9	6.4	6.0	6.4
PPG-TF 231	6.6	5.9	6.7	6.4	6.7	6.4
TYCOON (COL-TF-148)	6.5	5.9	6.7	6.6	6.5	6.4
TITAN GLX (TF445)	6.5	6.0	6.7	6.6	6.3	6.4
DYNAMITE G-LS (PPG-TF 254)	6.5	6.2	6.5	6.5	6.6	6.4
SR 8700 (TMT1)	6.6	5.9	6.9	6.6	6.0	6.4
FIERCE (K18-RS6)	6.5	6.0	6.8	6.5	6.3	6.4
ESTRENA	6.5	6.0	6.8	6.4	6.3	6.4
K18-NSE	6.4	6.3	6.6	6.7	5.9	6.4
FIRENZA II (PPG-TF 244)	6.6	5.9	7.0	6.5	5.9	6.4
PPG-TF 318	6.5	5.8	6.7	6.5	6.5	6.4
AVENGER III (PPG-TF 308)	6.5	6.0	6.8	6.5	6.1	6.4

TABLE 22. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
(CONT'D)  
GROWN AT FIVE LOCATIONS 1/  
IN THE NORTH CENTRAL REGION  
2019-23 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	IA1	IN1	MI1	NE1	ON1	MEAN
BATTLE HAWK (NAI-ROS4)	6.4	5.9	6.9	6.6	6.1	6.4
K18-WB1	6.6	5.9	6.9	6.5	6.1	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	6.2	6.6	6.5	5.9	6.4
DLFPS-TF/3553	6.5	6.0	6.6	6.5	6.4	6.4
STEALTH (PPG-TF 238)	6.5	5.7	6.9	6.4	6.5	6.4
PPG-TF 337	6.5	6.0	6.7	6.6	6.2	6.4
DLFPS-321/3707	6.7	6.0	6.6	6.6	6.1	6.4
TANK (PPG-TF 338)	6.6	5.9	6.6	6.6	6.2	6.4
JT 233	6.6	5.9	6.7	6.5	6.2	6.4
FIRECRACKER G-LS (PPG-TF 315)	6.5	6.2	6.8	6.5	6.0	6.4
RHF	6.5	6.1	6.8	6.4	6.1	6.4
SYMPHONY (PPG-TF 305)	6.5	5.8	6.7	6.7	6.2	6.4
GLX REVIVE (PST-5GLBS)	6.6	5.8	6.7	6.4	6.4	6.4
RAPTOR LS (PPG-TF 336)	6.5	6.3	6.6	6.6	5.8	6.4
BENTLEY (DLFPS-321/3679)	6.5	5.7	6.7	6.6	6.4	6.4
FINELAWN SUPREME (RH3)	6.4	6.0	6.6	6.6	6.2	6.4
PST-5GQ	6.5	5.9	6.7	6.6	6.2	6.4
PADRE 2	6.5	5.8	6.8	6.5	6.1	6.4
GALLARDO (DLFPS-TF/3550)	6.5	5.9	6.7	6.5	6.2	6.4
RDC	6.3	6.0	6.7	6.7	6.1	6.4
LIFEGUARD	6.4	5.9	6.8	6.3	6.4	6.4
DLFPS-321/3694	6.6	5.5	7.0	6.5	6.1	6.4
GALACTIC (SESCR1)	6.5	5.6	7.0	6.6	6.2	6.4
OKEEFE (LTP-TF-122)	6.5	5.7	6.7	6.6	6.3	6.4
DLFPS-321/3695	6.5	6.0	6.6	6.5	6.1	6.3
HOUND OG NINE (DLFPS-321/3702)	6.7	5.7	6.8	6.6	6.0	6.3
DRAGSTER	6.5	6.0	6.6	6.6	6.0	6.3
FAYETTE	6.6	5.6	6.8	6.3	6.4	6.3
GRANDE 3	6.5	5.7	6.9	6.4	6.1	6.3
TOUGH (NAI-TUE)	6.5	5.4	6.8	6.4	6.6	6.3
PARAMOUNT	6.6	5.6	6.8	6.5	6.2	6.3
PROVIDENCE (GO-RH20)	6.4	5.4	7.0	6.6	6.3	6.3
DLFPS-321/3693	6.6	5.7	6.7	6.6	6.0	6.3
KIZZLE (K18-ROE)	6.5	5.8	6.7	6.4	6.3	6.3
RAPTOR III	6.6	5.4	6.8	6.4	6.4	6.3
RC4	6.7	5.7	6.7	6.6	5.8	6.3
GLX ACED (PST-5DART)	6.5	6.0	6.5	6.4	6.2	6.3
TALLADEGA II (NAI-3N2)	6.5	5.8	6.6	6.4	6.3	6.3
DLFPS-321/3708	6.7	5.7	6.4	6.6	6.2	6.3
DLFPS-321/3706	6.5	6.0	6.6	6.5	6.0	6.3
JT 517	6.6	5.7	6.3	6.4	6.5	6.3
SETFM3	6.8	5.4	6.6	6.4	6.4	6.3
MOONDANCE GLX	6.4	5.6	6.8	6.3	6.4	6.3
ATF1768	6.6	5.6	6.6	6.3	6.3	6.3
RAD-TF105	6.6	5.8	6.5	6.3	6.3	6.3

TABLE 22. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
(CONT'D) GROWN AT FIVE LOCATIONS 1/  
IN THE NORTH CENTRAL REGION  
2019-23 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	IA1	IN1	MI1	NE1	ON1	MEAN
PPG-TF 312	6.4	6.1	6.5	6.6	5.7	6.3
BANDIT	6.7	5.4	6.6	6.4	6.4	6.3
PST-5TRN	6.5	5.5	6.7	6.4	6.4	6.3
EXTRAVAGANZA (PST-5MCMO)	6.5	5.9	6.4	6.3	6.3	6.3
PST-5MINK	6.6	5.4	6.8	6.2	6.3	6.3
TOPSHELF (BGR-TF3)	6.8	5.7	6.8	6.2	5.7	6.3
MONUMENT (PST-5SQB)	6.4	5.8	6.6	6.3	6.2	6.3
TANGO	6.5	5.4	6.7	6.3	6.5	6.3
DLFPS-321/3703	6.6	5.5	6.7	6.4	6.0	6.3
ORIOLE (PST-5BYOB)	6.5	5.8	6.7	6.3	5.9	6.3
PST-5DZM	6.5	5.5	6.5	6.3	6.5	6.2
HEMI	6.6	5.2	6.8	6.4	6.2	6.2
BULLSEYE	6.6	5.2	6.6	6.4	6.5	6.2
GRO-PRO (SE53D2)	6.6	5.7	6.6	6.3	6.0	6.2
BRAVO 2	6.6	5.3	6.7	6.5	6.1	6.2
AST8218LM	6.6	5.5	6.5	6.4	6.2	6.2
PST-5DC24	6.6	5.6	6.7	6.5	5.7	6.2
NAI-FQZ-17	6.6	5.2	6.8	6.4	6.2	6.2
PRO GOLD	6.5	5.7	6.5	6.4	5.9	6.2
TAR HEEL III (PST-5THM)	6.4	5.4	6.7	6.4	6.4	6.2
BIRMINGHAM	6.7	5.1	6.8	6.3	6.1	6.2
ATF2116	6.6	5.5	6.6	6.3	6.0	6.2
COPIOUS TF	6.6	5.5	6.3	6.4	6.1	6.2
BAR-FA8230	6.4	5.0	6.6	6.3	6.6	6.2
SE5STAR	6.5	5.5	6.4	6.4	6.1	6.2
AST8118LM	6.7	5.1	6.6	6.4	6.0	6.2
LAFAYETTE (GO-AOMK)	6.7	5.2	6.6	6.3	5.9	6.2
ESCALADE	6.6	5.2	6.3	6.3	6.4	6.2
LBF	6.7	5.5	6.5	6.3	5.7	6.1
FAIRFIELD (SETF104)	6.5	5.4	6.4	6.4	5.9	6.1
HELLCAT GLR (PST-5E6)	6.3	5.7	6.5	6.4	5.8	6.1
OG-WALK	6.6	5.1	6.6	6.3	6.1	6.1
SETFM2	6.7	5.5	6.4	6.2	5.7	6.1
BARNOBLE (BAR 9FE MAS)	6.6	4.8	6.7	6.2	6.2	6.1
NATURALLY GREEN	6.6	5.0	6.2	6.3	6.3	6.1
A-TF31	6.7	5.2	6.3	6.3	5.8	6.1
RAD-TF 115 (TURBO SS)	6.7	5.0	6.4	6.4	5.8	6.1
PALOMAR	6.5	5.1	6.5	6.2	5.9	6.1
RAD-TF131	6.7	4.9	6.4	6.5	5.8	6.0
GRAND PRIX (FC15-01P)	6.4	5.3	6.4	6.3	5.7	6.0
BAR FA 8228	6.5	4.9	6.1	6.0	5.9	5.9
KENTUCKY-31	6.1	4.1	4.5	5.0	5.5	5.1
LSD VALUE	0.3	0.7	0.6	0.4	0.8	0.3
C.V. (%)	3.1	7.6	6.0	3.6	8.3	6.0

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 23.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/  
2019-23 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/								
NAME	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
RHL2	6.6	7.2	7.2	7.9	7.7	7.3	5.3	7.3
TITANIUM G-LS (PPG-TF 255)	7.1	7.4	7.4	7.3	7.7	6.9	5.7	7.3
TRIAD (PPG-TF 323)	6.9	7.3	7.3	7.5	7.9	7.0	5.0	7.3
CLASH (AH1)	7.2	7.3	7.1	7.3	7.7	7.1	5.0	7.3
FINELAWN SUPREME (RH3)	6.9	7.5	7.3	7.3	7.7	7.0	4.3	7.3
5LSS	6.9	7.4	7.4	7.4	7.5	7.1	4.3	7.2
DLFPS-321/3706	7.0	7.4	7.1	7.5	7.7	6.9	5.0	7.2
PPG-TF 312	7.1	7.4	7.0	7.3	7.7	7.3	4.3	7.2
SYMPHONY (PPG-TF 305)	6.9	7.4	7.2	7.4	7.5	6.9	5.7	7.2
RAPTOR LS (PPG-TF 336)	7.1	7.3	7.1	7.5	7.6	6.9	5.0	7.2
K18-NSE	6.9	7.3	7.2	7.4	7.6	7.1	4.7	7.2
K18-WB1	6.9	7.3	6.9	7.3	7.7	7.1	5.3	7.2
RHF	6.8	7.4	7.1	7.4	7.4	7.1	5.0	7.2
BLADERUNNER 3 (DLFPS-321/3701)	6.8	7.3	7.2	7.4	7.5	6.9	5.3	7.2
AVENGER III (PPG-TF 308)	7.1	7.5	7.2	7.2	7.4	6.8	5.0	7.2
DAYBREAK (AH2)	6.8	7.5	6.7	7.4	7.7	7.1	5.0	7.2
BONFIRE (JS DTT)	7.0	7.4	7.1	7.1	7.6	6.9	5.0	7.2
DEGAS (LTP-TF-111)	7.1	7.3	7.2	7.5	7.4	6.7	5.0	7.2
HOUND OG NINE (DLFPS-321/3702)	7.0	7.4	7.1	7.1	7.6	6.8	5.3	7.2
XANADU (JT 268 )	6.7	7.2	7.1	7.4	7.7	6.7	5.7	7.2
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	7.3	6.9	7.3	7.7	7.0	5.3	7.2
EXPANSE (PPG-TF 262)	6.8	7.3	7.0	7.3	7.5	6.9	6.0	7.2
NAI-ST5	7.0	7.2	7.1	7.1	7.6	6.9	5.3	7.1
FASTLANE (BY-TF-169)	7.2	7.3	7.1	7.2	7.3	6.9	5.0	7.1
DLFPS-321/3695	7.0	7.3	6.9	7.3	7.6	6.9	5.3	7.1
TD2	6.7	7.4	7.1	7.3	7.5	6.9	5.3	7.1
DLFPS-321/3693	6.9	7.3	7.1	7.1	7.5	7.1	5.0	7.1
ZION (BAR TF 134)	7.0	7.1	7.1	7.5	7.5	6.8	5.0	7.1
FIRECRACKER G-LS (PPG-TF 315)	6.9	7.2	6.8	7.3	7.5	7.1	5.7	7.1
PROVIDENCE (GO-RH20)	6.8	7.3	7.0	7.2	7.7	7.0	5.0	7.1
TITAN MAX (TF456)	6.9	7.3	7.0	7.3	7.5	6.8	5.3	7.1
RC4	6.8	7.3	7.0	7.3	7.4	7.0	5.0	7.1
BATTLE HAWK (NAI-ROS4)	6.8	7.4	7.1	7.3	7.7	6.7	5.0	7.1
GEM (PPG-TF 316)	6.8	7.2	7.1	7.3	7.5	6.9	5.3	7.1
SPYDER 2LS (ZRC1)	6.8	7.3	6.9	7.3	7.7	6.9	5.3	7.1
PPG-TF 337	6.7	7.3	6.9	7.4	7.5	6.9	5.0	7.1
CAPITAN (DLFPS-321/3705)	6.6	7.3	7.1	7.3	7.5	6.9	5.0	7.1
TYCOON (COL-TF-148)	6.9	7.0	7.0	7.3	7.7	6.9	5.0	7.1
DLFPS-321/3708	6.8	7.2	6.9	7.3	7.4	6.9	6.7	7.1
PPG-TF 318	6.8	7.3	7.1	7.2	7.5	6.9	5.3	7.1
TALLADEGA II (NAI-3N2)	6.8	7.4	6.8	7.3	7.5	6.9	5.3	7.1
FIREHAWK SLT	6.9	7.1	7.0	7.3	7.5	6.9	5.0	7.1
DLFPS-321/3694	7.0	7.2	6.9	7.1	7.7	6.8	5.3	7.1
FIERCE (K18-RS6)	6.9	7.5	7.1	6.9	7.5	6.9	4.3	7.1

TABLE 23.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/  
2019-23 DATA

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

NAME	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
TEACHER (PPG-TF 313)	6.5	7.3	6.8	7.3	7.6	7.2	5.0	7.1
RDC	6.7	7.3	6.8	7.4	7.5	7.1	4.3	7.1
SERENADE (PPG-TF 320)	7.0	7.3	7.1	7.2	7.3	6.9	5.0	7.1
ESTRENA	7.2	7.3	7.2	7.0	7.3	6.9	4.3	7.1
PPG-TF 249	7.0	7.3	6.9	7.3	7.5	6.7	5.0	7.1
NT-3	6.8	7.2	7.0	7.3	7.5	6.9	5.0	7.1
RAPTOR III	6.6	7.1	7.1	7.3	7.4	6.7	5.7	7.1
FALCON SUPREME (RH1)	6.6	7.2	7.0	7.3	7.4	6.9	5.3	7.1
DLFPS-TF/3553	6.9	7.2	7.0	7.1	7.5	6.9	5.0	7.1
GALLARDO (DLFPS-TF/3550)	6.8	7.3	7.0	7.1	7.5	6.9	5.3	7.1
GALACTIC (SESCR1)	6.6	7.1	6.9	7.2	7.5	7.1	5.0	7.1
DRAGSTER	6.8	7.1	7.0	7.2	7.3	7.0	5.0	7.1
TANK (PPG-TF 338)	6.8	7.3	7.1	7.1	7.5	6.7	5.7	7.1
ROVER (PPG-TF 306)	6.8	7.3	7.1	7.1	7.4	6.7	5.3	7.0
HEMI	6.7	7.2	7.1	7.3	7.3	6.8	5.0	7.0
BULLSEYE LTZ	6.8	7.3	7.1	7.3	7.3	6.6	5.0	7.0
ROWDIER (DLFPS-321/3699)	6.5	7.3	6.9	7.2	7.4	6.8	6.0	7.0
RAD-TF105	6.3	7.3	6.9	7.3	7.3	6.8	6.3	7.0
FIRENZA II (PPG-TF 244)	6.8	7.0	6.9	7.2	7.5	6.9	5.0	7.0
OKEEFE (LTP-TF-122)	6.9	7.2	7.0	7.1	7.4	6.7	5.0	7.0
DLFPS-321/3707	6.8	7.1	6.9	7.1	7.4	6.9	5.3	7.0
SOUTHSIDE (PPG-TF 267)	6.8	7.1	6.9	7.1	7.3	7.1	5.0	7.0
GRANDE 3	6.4	7.2	7.1	7.0	7.5	6.8	5.0	7.0
VALSETZ (PPG-TF 257)	6.8	7.1	6.9	7.1	7.4	6.7	5.0	7.0
TITAN GLX (TF445)	6.5	7.2	7.0	7.1	7.5	6.7	5.3	7.0
RS1	6.3	7.3	6.9	7.3	7.5	6.7	4.7	7.0
TOUGH (NAI-TUE)	7.2	7.1	7.0	6.9	7.2	6.7	5.7	7.0
RACEWAY (DLFPS-321/3696)	6.6	7.1	7.1	7.3	7.1	6.7	5.7	7.0
STEALTH (PPG-TF 238)	6.6	7.3	7.0	7.1	7.3	6.7	5.3	7.0
SR 8700 (TMT1)	6.8	7.2	6.7	7.0	7.5	6.7	5.3	7.0
DLFPS-321/3703	6.8	7.1	7.0	7.1	7.3	6.7	5.0	7.0
DYNAMITE G-LS (PPG-TF 254)	6.8	7.1	7.1	6.9	7.3	6.8	5.0	7.0
EXTRAVAGANZA (PST-5MCMO)	6.7	7.1	6.9	7.2	7.3	6.7	4.7	6.9
FAIRFIELD (SETF104)	6.1	7.1	7.1	7.2	7.3	6.7	6.0	6.9
LIFEGUARD	6.6	7.2	7.1	6.9	7.3	6.6	5.0	6.9
ENDGAME (3N1)	7.0	7.0	6.9	6.9	7.2	6.7	5.0	6.9
KIZZLE (K18-ROE)	6.6	7.1	6.9	7.2	7.3	6.7	5.0	6.9
PST-5TRN	6.6	7.1	7.2	7.0	7.2	6.7	4.7	6.9
ATF2116	6.8	7.1	7.0	6.9	7.2	6.6	6.0	6.9
RAD-TF 115 (TURBO SS)	5.9	6.9	6.9	7.1	7.5	6.8	6.3	6.9
AST8218LM	6.7	7.0	6.9	6.9	7.2	6.5	7.0	6.9
NATURALLY GREEN	6.5	7.1	6.8	6.9	7.3	6.7	7.0	6.9
PST-5GQ	6.3	7.1	7.0	7.1	7.3	6.7	5.0	6.9
PADRE 2	6.5	7.2	7.0	7.1	6.9	6.7	5.0	6.9
HELLCAT GLR (PST-5E6)	6.5	7.1	7.1	7.0	7.2	6.7	5.0	6.9



TABLE 23. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/ 2019-23 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
BULLSEYE	6.9	7.1	6.9	6.9	7.1	6.7	5.0	6.9
GLX ACED (PST-5DART)	6.8	7.1	6.8	6.9	7.3	6.7	5.0	6.9
PARAMOUNT	6.8	7.1	6.7	6.9	7.2	6.9	5.3	6.9
PST-5DC24	6.7	7.2	6.8	7.1	7.0	6.6	5.7	6.9
LAFAYETTE (GO-AOMK)	6.4	6.8	6.9	7.2	7.1	6.6	7.0	6.9
PPG-TF 231	6.8	7.1	6.8	6.8	7.3	6.6	5.0	6.9
TANGO	6.7	7.2	7.1	7.0	7.0	6.4	5.0	6.9
3B2	6.8	7.1	6.7	6.9	7.2	6.8	5.0	6.9
JT 233	7.0	7.1	6.7	6.9	7.1	6.6	5.0	6.9
GLX REVIVE (PST-5GLBS)	6.7	7.1	6.8	6.9	7.3	6.7	5.0	6.9
PST-5DZM	6.5	7.1	6.8	7.0	7.3	6.5	5.3	6.9
ATF1768	6.8	7.3	7.0	6.7	6.9	6.5	5.0	6.9
RAD-TF131	6.0	6.9	6.7	7.2	7.1	6.7	6.7	6.9
SETFM3	6.5	6.9	6.6	6.9	7.3	6.7	6.0	6.8
FAYETTE	6.7	6.9	6.5	7.1	7.3	6.7	5.0	6.8
SETFM2	6.6	7.0	6.6	6.9	7.2	6.5	6.7	6.8
BAR-FA8230	6.7	7.1	7.0	7.1	6.9	6.3	5.0	6.8
BRAVO 2	6.6	7.2	6.8	6.8	7.1	6.5	5.3	6.8
LBF	6.5	6.9	6.7	6.9	7.1	6.6	6.3	6.8
BANDIT	6.4	6.9	6.7	7.0	7.3	6.5	6.0	6.8
TOPSHELF (BGR-TF3)	6.5	7.0	6.7	6.9	7.1	6.4	6.7	6.8
NAL-FQZ-17	6.5	6.9	7.1	6.9	7.0	6.5	5.7	6.8
TAR HEEL III (PST-5THM)	6.7	7.1	6.7	6.9	6.9	6.6	4.7	6.8
MOONDANCE GLX	6.4	7.2	6.7	6.9	7.1	6.5	4.7	6.8
PRO GOLD	6.4	6.9	6.9	6.9	7.2	6.5	4.3	6.8
PST-5MINK	6.7	6.9	6.9	7.1	6.9	6.5	5.0	6.8
JT 517	6.3	6.9	6.6	7.0	7.3	6.6	6.3	6.8
BIRMINGHAM	6.5	7.0	6.8	6.6	7.1	6.6	6.0	6.8
COPIOUS TF	6.4	7.0	6.7	6.7	7.0	6.6	6.7	6.8
BENTLEY (DLFPS-321/3679)	6.3	7.1	6.6	6.9	7.1	6.5	5.7	6.8
BARNOBLE (BAR 9FE MAS)	6.3	6.9	6.7	6.9	7.1	6.7	5.0	6.8
ORIOLE (PST-5BYOB)	6.7	7.2	7.0	6.7	6.9	6.3	4.3	6.8
MONUMENT (PST-5SQB)	6.4	7.0	6.8	6.9	7.0	6.6	4.7	6.8
SE5STAR	6.8	6.9	6.7	6.6	7.2	6.2	4.7	6.7
AST8118LM	6.4	6.9	6.6	6.7	6.9	6.6	6.3	6.7
GRAND PRIX (FC15-01P)	6.3	7.0	6.7	6.8	6.9	6.5	5.0	6.7
BAR FA 8228	6.4	6.8	6.9	6.8	6.9	6.2	4.7	6.7
ESCALADE	6.6	6.9	6.7	6.7	6.9	6.3	5.0	6.6
A-TF31	6.2	6.8	6.4	6.7	7.1	6.4	6.0	6.6
GRO-PRO (SE53D2)	6.6	6.9	6.7	6.7	6.7	6.4	4.3	6.6
PALOMAR	6.7	6.7	6.4	6.7	6.6	6.2	4.7	6.5
OG-WALK	6.1	6.5	6.3	6.4	6.6	6.1	5.0	6.3
KENTUCKY-31	6.3	6.6	6.4	6.5	6.1	5.0	3.0	6.1
LSD VALUE	0.5	0.4	0.7	0.6	0.6	0.6	0.7	0.4
C.V. (%)	8.9	8.6	13.4	11.0	10.8	13.3	8.8	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 24.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT FRESNO, CA (IN THE SOUTHWEST REGION) 1/  
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS							MEAN
	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SYMPHONY (PPG-TF 305)	5.0	5.3	5.0	6.7	8.0	7.7	7.3	6.4
ORIOLE (PST-5BYOB)	5.0	5.0	4.3	6.0	7.7	7.7	7.3	6.1
BRAVO 2	5.3	5.3	4.7	6.7	7.0	7.0	6.7	6.1
PADRE 2	5.3	5.7	3.7	5.7	7.3	7.3	7.3	6.0
LBF	5.3	4.7	5.3	5.0	7.3	7.3	7.0	6.0
ROVER (PPG-TF 306)	5.0	5.0	4.3	6.3	6.7	7.0	7.0	5.9
EXTRAVAGANZA (PST-5MCMO)	5.3	5.3	4.7	5.3	7.0	6.7	6.3	5.8
VALSETZ (PPG-TF 257)	5.0	5.3	4.7	5.7	6.7	6.7	6.7	5.8
FIREHAWK SLT	5.0	5.0	3.7	5.7	7.0	7.0	6.7	5.7
TITAN GLX (TF445)	5.0	5.3	3.3	5.7	7.0	7.0	6.7	5.7
BAR FA 8228	5.7	5.7	3.7	4.7	7.0	6.7	6.3	5.7
MONUMENT (PST-5SQB)	5.7	5.0	4.0	5.7	6.7	6.3	6.3	5.7
FINELAWN SUPREME (RH3)	6.0	5.3	4.0	5.7	6.0	6.3	6.0	5.6
FALCON SUPREME (RH1)	5.7	5.3	4.0	5.7	6.3	6.0	6.0	5.6
CAPITAN (DLFPS-321/3705)	5.0	4.7	3.7	5.0	7.0	6.7	6.7	5.5
DYNAMITE G-LS (PPG-TF 254)	5.3	5.0	4.7	5.0	6.0	6.3	6.3	5.5
TEACHER (PPG-TF 313)	5.0	5.3	4.0	5.3	6.3	6.3	6.3	5.5
HELLCAT GLR (PST-5E6)	5.0	4.7	4.0	5.7	6.7	6.3	6.3	5.5
SETFM2	5.0	4.7	4.0	5.3	6.3	6.7	6.7	5.5
ENDGAME (3N1)	5.0	5.0	4.3	5.3	6.0	6.3	6.3	5.5
FASTLANE (BY-TF-169)	5.3	5.0	4.7	5.3	6.0	6.0	6.0	5.5
FIRECRACKER G-LS (PPG-TF 315)	4.3	4.7	5.3	5.3	6.0	6.3	6.3	5.5
RACEWAY (DLFPS-321/3696)	4.7	4.3	4.3	5.3	6.7	6.7	6.3	5.5
GLX REVIVE (PST-5GLBS)	5.0	5.7	4.0	5.3	6.7	6.0	5.7	5.5
GLX ACED (PST-5DART)	5.0	4.7	4.7	5.0	6.7	6.0	6.0	5.4
NAI-ST5	5.3	5.3	4.3	5.3	6.0	6.0	5.7	5.4
PALOMAR	4.7	5.0	3.7	4.7	6.3	7.0	6.7	5.4
FAYETTE	5.0	4.7	4.7	5.3	6.3	6.0	5.7	5.4
PARAMOUNT	5.0	4.3	3.7	4.7	6.3	7.0	6.7	5.4
TITAN MAX (TF456)	5.3	4.7	4.0	5.7	6.3	6.0	5.7	5.4
TOPSHELF (BGR-TF3)	5.0	5.0	4.0	4.3	6.3	6.7	6.3	5.4
ATF2116	5.0	5.0	4.7	5.0	5.7	5.7	6.3	5.3
DLFPS-321/3693	5.0	5.3	4.3	6.0	5.7	5.7	5.3	5.3
ESCALADE	5.3	5.0	3.7	5.0	5.7	6.3	6.3	5.3
JT 233	5.3	5.0	3.7	5.3	6.3	6.0	5.7	5.3
TITANIUM G-LS (PPG-TF 255)	5.0	5.0	4.7	5.0	6.0	6.0	5.7	5.3
BENTLEY (DLFPS-321/3679)	4.7	4.7	3.7	5.3	6.7	6.0	6.0	5.3
GRAND PRIX (FC15-01P)	5.0	5.0	3.7	5.3	6.0	6.0	6.0	5.3
PROVIDENCE (GO-RH20)	4.7	4.7	3.7	5.3	6.3	6.3	6.0	5.3
BONFIRE (JS DTT)	5.0	5.0	3.7	5.0	6.3	6.0	5.7	5.2
DEGAS (LTP-TF-111)	4.7	5.0	3.7	5.0	6.0	6.3	6.0	5.2
LIFEGUARD	4.7	4.7	4.3	5.0	6.3	6.0	5.7	5.2
RAPTOR III	5.3	6.0	3.0	5.0	5.7	6.0	5.7	5.2
SPYDER 2LS (ZRC1)	5.0	5.0	3.7	5.3	5.7	6.0	6.0	5.2

TABLE 24.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT FRESNO, CA (IN THE SOUTHWEST REGION) 1/  
2019 DATA

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

NAME	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BATTLE HAWK (NAI-ROS4)	5.0	5.3	3.7	5.3	5.7	5.7	5.7	5.2
FIERCE (K18-RS6)	4.7	5.7	3.7	5.0	5.3	6.0	6.0	5.2
GALACTIC (SESCR1)	5.0	4.3	3.3	5.7	5.7	6.3	6.0	5.2
GRANDE 3	4.7	5.0	3.3	5.3	6.3	6.0	5.7	5.2
JT 517	4.7	5.0	4.3	5.0	5.7	6.0	5.7	5.2
KIZZLE (K18-ROE)	5.0	5.3	4.3	4.7	5.7	5.7	5.7	5.2
PST-5TRN	4.3	5.0	4.3	5.0	5.7	6.0	6.0	5.2
BLADERUNNER 3 (DLFPS-321/3701)	5.0	4.7	3.7	5.0	6.0	6.0	5.7	5.1
CLASH (AH1)	5.0	4.7	4.0	5.0	6.0	5.7	5.7	5.1
NATURALLY GREEN	5.0	5.0	4.0	5.0	5.7	5.7	5.7	5.1
ROWDIER (DLFPS-321/3699)	5.0	4.7	4.7	4.7	5.7	5.7	5.7	5.1
A-TF31	4.7	4.7	3.7	5.0	6.3	6.0	5.7	5.1
DLFPS-TF/3553	5.0	4.7	5.0	4.3	5.7	5.7	5.7	5.1
ESTRENA	5.3	4.7	3.3	4.7	6.0	6.0	6.0	5.1
NT-3	4.7	5.0	5.0	4.7	5.7	5.7	5.3	5.1
COPIOUS TF	5.0	5.7	3.7	4.7	5.3	5.7	5.7	5.1
TAR HEEL III (PST-5THM)	4.7	4.7	3.7	4.7	6.3	6.0	5.7	5.1
SR 8700 (TMT1)	5.0	4.7	4.0	4.3	6.0	6.0	5.7	5.1
TANK (PPG-TF 338)	5.3	4.7	3.3	4.7	6.0	6.3	5.3	5.1
DLFPS-321/3708	5.0	5.0	3.3	4.7	6.0	5.7	5.7	5.0
FIRENZA II (PPG-TF 244)	4.7	5.3	4.0	4.7	5.3	5.7	5.7	5.0
GEM (PPG-TF 316)	4.7	4.7	4.0	4.7	6.0	6.0	5.3	5.0
PPG-TF 312	4.7	4.7	3.7	5.3	6.0	5.7	5.3	5.0
RC4	4.7	5.0	3.0	4.7	6.3	6.0	5.7	5.0
PRO GOLD	5.3	5.0	4.0	4.3	5.7	5.3	5.3	5.0
PST-5GQ	4.7	4.3	4.0	4.3	6.0	6.0	5.7	5.0
RAD-TF131	4.7	4.3	2.3	4.7	6.0	6.3	6.3	5.0
SETFM3	5.3	5.0	4.0	3.7	5.7	5.7	5.3	5.0
TD2	5.0	5.0	3.7	4.7	5.0	5.7	5.7	5.0
PPG-TF 318	5.0	5.0	3.7	4.3	5.3	5.3	5.7	4.9
AST8118LM	4.7	4.3	3.3	4.3	6.0	6.0	5.7	4.9
GALLARDO (DLFPS-TF/3550)	4.7	4.3	2.7	4.7	5.3	6.0	6.3	4.9
SE5STAR	5.0	4.3	3.3	4.7	5.7	5.7	5.3	4.9
TANGO	5.0	5.0	3.0	4.3	5.3	5.7	5.7	4.9
TOUGH (NAI-TUE)	5.0	4.7	3.3	4.3	6.3	5.3	5.0	4.9
ZION (BAR TF 134)	5.0	4.3	3.0	4.7	5.7	5.7	5.3	4.8
ATF1768	5.0	5.0	2.3	4.3	5.7	5.7	5.7	4.8
HOUNDOG NINE (DLFPS-321/3702)	4.7	4.7	4.3	4.7	5.0	5.3	5.0	4.8
TYCOON (COL-TF-148)	4.7	4.3	3.7	5.0	5.0	5.7	5.3	4.8
XANADU (JT 268 )	5.3	5.3	3.0	4.7	5.0	5.3	5.0	4.8
DLFPS-321/3695	5.3	5.0	4.0	4.3	5.0	5.0	4.7	4.8
PPG-TF 231	5.3	6.0	4.0	3.7	4.3	5.0	5.0	4.8
BAR-FA8230	5.3	5.0	3.3	4.3	5.7	4.7	4.7	4.7
BIRMINGHAM	5.3	5.3	2.7	4.3	5.7	5.0	4.7	4.7
NAI-FQZ-17	5.0	5.0	3.0	4.0	5.7	5.3	5.0	4.7

TABLE 24.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT FRESNO, CA (IN THE SOUTHWEST REGION) 1/  
2019 DATA

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

NAME	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
AST8218LM	4.7	5.0	3.7	4.3	5.0	5.0	5.0	4.7
RDC	4.3	4.7	4.3	4.3	5.0	5.3	4.7	4.7
ESSENTIAL 2 (DLFPS-TF/3552)	5.0	5.0	2.7	4.0	4.7	5.3	5.3	4.7
DLFPS-321/3706	4.3	4.7	4.3	4.3	4.7	5.0	5.0	4.6
MOONDANCE GLX	5.3	5.0	3.0	3.7	4.7	5.3	5.3	4.6
SOUTHSIDE (PPG-TF 267)	5.0	5.0	3.0	4.3	5.3	5.0	4.7	4.6
DLFPS-321/3694	5.3	4.7	3.0	4.0	5.0	5.0	5.3	4.6
3B2	5.0	4.7	4.0	4.0	4.7	5.0	4.7	4.6
5LSS	5.3	4.3	3.3	4.0	5.0	5.0	5.0	4.6
DLFPS-321/3703	5.0	5.3	3.7	4.3	4.7	4.7	4.3	4.6
FAIRFIELD (SETF104)	5.0	4.7	3.3	4.3	5.0	5.0	4.7	4.6
TRIAD (PPG-TF 323)	5.0	4.7	3.7	4.3	5.0	4.7	4.7	4.6
AVENGER III (PPG-TF 308)	4.7	5.0	4.0	4.7	4.7	4.3	4.3	4.5
BULLSEYE LTZ	4.7	4.3	2.7	4.3	5.0	5.3	5.3	4.5
EXPANSE (PPG-TF 262)	4.7	4.7	3.0	4.3	5.0	5.0	5.0	4.5
RAD-TF105	4.7	4.7	4.0	4.0	4.7	4.7	4.7	4.5
BANDIT	4.7	4.7	2.3	3.7	5.3	5.3	5.3	4.5
K18-WB1	4.7	4.3	2.7	4.7	5.0	5.0	5.0	4.5
DRAGSTER	5.0	5.0	4.0	3.7	4.3	4.7	4.7	4.5
SERENADE (PPG-TF 320)	4.7	4.7	3.0	3.7	4.7	5.0	5.0	4.4
BULLSEYE	4.7	4.3	3.0	4.0	4.7	5.0	5.0	4.4
KENTUCKY-31	6.0	5.3	3.0	3.7	4.3	4.3	4.0	4.4
PST-5DZM	4.7	4.7	2.7	4.0	5.0	5.0	4.7	4.4
RHF	5.3	5.7	4.3	3.7	4.0	4.0	3.7	4.4
K18-NSE	5.3	5.7	2.7	4.0	4.0	4.3	4.3	4.3
OKEEFE (LTP-TF-122)	5.0	5.7	4.0	3.7	4.0	4.0	4.0	4.3
RS1	4.7	4.3	3.3	4.0	4.3	4.7	5.0	4.3
OG-WALK	5.3	4.7	2.7	4.0	4.7	4.3	4.3	4.3
PPG-TF 337	4.7	4.3	3.0	4.0	4.7	5.0	4.3	4.3
PST-5DC24	4.7	5.0	2.7	3.7	4.3	4.7	5.0	4.3
RHL2	4.7	5.3	4.0	4.0	4.0	4.0	4.0	4.3
STEALTH (PPG-TF 238)	4.7	4.7	3.0	4.0	4.7	4.7	4.3	4.3
TALLADEGA II (NAI-3N2)	4.7	4.0	3.0	4.3	4.3	4.7	4.3	4.2
PPG-TF 249	4.0	4.7	4.0	4.7	4.0	4.0	4.0	4.2
BARNOBLE (BAR 9FE MAS)	4.7	4.3	3.3	4.0	4.0	4.3	4.3	4.1
DAYBREAK (AH2)	5.0	4.7	2.7	3.7	4.3	4.0	4.0	4.0
GRO-PRO (SE53D2)	5.0	4.0	3.0	3.3	4.0	4.3	4.7	4.0
HEMI	4.3	5.0	3.3	3.7	4.0	4.0	4.0	4.0
PST-5MINK	4.7	4.7	3.0	4.0	4.0	4.0	4.0	4.0
LAFAYETTE (GO-AOMK)	4.7	4.7	2.7	3.7	3.7	4.3	4.3	4.0
RAPTOR LS (PPG-TF 336)	4.3	4.3	2.3	3.3	3.3	3.7	3.7	3.6
DLFPS-321/3707	4.7	4.7	2.0	3.0	3.3	3.3	3.3	3.5
RAD-TF 115 (TURBO SS)	4.0	4.0	2.3	3.0	3.7	3.7	3.3	3.4
LSD VALUE	1.0	1.2	1.9	2.6	3.3	3.1	3.0	1.9
C.V. (%)	12.4	14.8	33.1	35.1	37.0	34.3	33.8	23.8

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

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

TABLE 25.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT CORVALLIS, OR (IN THE PACIFIC REGION) 1/  
2019-23 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/											
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
CLASH (AH1)	6.0	4.7	5.6	5.8	6.5	6.7	6.5	6.6	6.5	6.0	4.0	6.1
DLFPS-321/3707	5.8	5.5	5.7	5.8	6.3	6.3	6.3	6.7	6.5	6.1	3.8	6.1
AVENGER III (PPG-TF 308)	5.5	5.5	5.6	5.8	6.2	5.9	6.4	6.7	6.3	5.9	4.3	6.0
DLFPS-321/3708	5.2	4.8	5.6	5.6	6.2	6.3	6.5	6.9	6.3	5.9	3.8	6.0
TEACHER (PPG-TF 313)	5.8	4.5	4.9	5.5	5.9	6.2	6.5	6.8	6.7	6.1	4.0	6.0
SOUTHSIDE (PPG-TF 267)	4.8	4.2	5.0	5.7	6.1	6.2	6.3	6.7	6.6	6.3	4.2	6.0
DAYBREAK (AH2)	5.5	4.3	5.0	5.9	6.3	6.1	6.5	6.3	6.3	5.7	4.0	5.9
FALCON SUPREME (RH1)	5.5	4.5	4.8	5.8	6.3	6.1	6.3	6.3	6.2	6.0	4.3	5.9
HOUNDG NINE (DLFPS-321/3702)	5.3	4.3	5.0	5.7	6.3	6.1	6.3	6.5	6.3	5.9	3.8	5.9
EXPANSE (PPG-TF 262)	5.3	4.5	4.9	5.5	6.2	6.3	6.4	6.3	6.3	5.9	3.7	5.9
SYMPHONY (PPG-TF 305)	5.5	4.2	5.2	5.4	6.1	6.2	6.7	6.5	6.2	5.6	3.5	5.8
K18-NSE	5.3	4.7	4.7	5.4	5.9	6.3	6.7	6.5	6.1	5.7	4.3	5.8
TITANIUM G-LS (PPG-TF 255)	6.0	4.5	5.6	5.6	5.9	5.9	6.1	6.2	6.0	6.0	3.8	5.8
DLFPS-TF/3553	5.5	4.8	4.9	5.5	5.7	5.9	6.3	6.5	6.3	5.8	3.8	5.8
DLFPS-321/3706	5.3	4.2	4.4	5.3	5.9	6.0	6.6	6.6	6.1	5.9	4.0	5.8
PROVIDENCE (GO-RH20)	6.0	4.7	5.1	5.7	5.8	6.0	6.1	6.3	6.2	5.5	4.0	5.8
TRIAD (PPG-TF 323)	5.3	3.8	4.9	5.7	6.1	6.3	6.2	6.3	6.2	5.5	3.3	5.7
XANADU (JT 268 )	5.0	3.8	4.7	5.7	6.1	6.1	6.4	6.0	6.0	5.8	3.7	5.7
GALACTIC (SESCR1)	5.8	4.3	5.1	5.5	5.8	6.3	6.3	6.1	5.8	5.5	4.0	5.7
TANK (PPG-TF 338)	5.0	4.7	5.2	5.7	5.8	6.2	6.1	6.1	6.2	5.6	3.5	5.7
ROVER (PPG-TF 306)	4.8	4.3	4.9	5.7	5.9	6.1	6.4	6.0	6.0	5.6	3.8	5.7
RAPTOR LS (PPG-TF 336)	5.3	4.2	4.6	5.2	5.8	6.3	6.5	6.3	6.0	5.5	3.8	5.7
SR 8700 (TMT1)	5.2	4.5	5.1	5.5	5.7	6.0	6.3	6.2	6.2	5.5	3.7	5.7
FIRECRACKER G-LS (PPG-TF 315)	5.2	4.2	4.9	5.5	5.9	6.0	6.4	6.3	6.3	5.7	3.2	5.7
DRAGSTER	5.7	4.8	4.9	5.4	5.7	5.9	6.1	6.1	6.1	5.8	4.0	5.7
BONFIRE (JS DTT)	5.2	3.8	4.7	5.5	5.7	6.1	6.7	6.5	6.2	5.6	3.2	5.7
STEALTH (PPG-TF 238)	5.5	4.3	4.8	5.3	6.1	5.9	6.3	6.3	5.9	5.7	3.2	5.7
TYCOON (COL-TF-148)	5.3	4.2	4.8	5.3	5.6	5.8	6.7	6.3	6.1	5.7	4.0	5.7
K18-WB1	5.7	4.2	4.8	5.3	5.5	5.8	6.1	6.3	6.3	5.8	3.8	5.7
OKEEFE (LTP-TF-122)	5.2	4.7	4.9	5.0	5.6	5.9	6.3	6.3	6.2	5.9	4.0	5.7
RS1	5.3	3.5	4.3	5.5	5.8	6.0	6.1	6.4	6.1	5.9	3.7	5.6
RDC	5.5	4.3	4.9	5.4	5.8	5.8	6.1	6.3	5.8	5.7	3.8	5.6
5LSS	5.2	4.5	4.2	5.3	5.7	6.1	6.3	6.5	6.1	5.6	3.7	5.6
GEM (PPG-TF 316)	5.2	3.7	4.3	5.5	5.9	6.1	6.2	6.2	5.7	5.7	3.7	5.6
DLFPS-321/3703	5.0	4.0	5.1	5.5	6.0	6.0	6.0	5.9	6.0	5.5	4.0	5.6
DYNAMITE G-LS (PPG-TF 254)	4.7	4.3	4.8	5.5	6.0	6.0	6.0	6.1	5.8	5.7	3.8	5.6
RHL2	5.3	3.8	4.6	5.3	5.5	6.1	6.3	6.3	6.2	5.7	3.5	5.6
NAI-ST5	4.8	4.0	4.9	5.5	5.7	5.9	6.3	6.1	6.0	5.4	3.7	5.6
RHF	5.3	4.3	4.9	5.3	5.8	5.5	6.1	6.3	6.0	5.6	4.0	5.6
BLADERUNNER 3 (DLFPS-321/3701)	6.0	4.7	4.9	5.1	5.5	5.8	6.3	6.1	6.0	5.6	3.7	5.6
FIRENZA II (PPG-TF 244)	5.3	4.2	4.4	5.3	5.7	6.0	6.2	6.1	5.8	5.7	4.0	5.6
TD2	5.0	3.8	4.6	5.2	5.8	5.9	6.4	6.3	6.1	5.5	3.8	5.6
SPYDER 2LS (ZRC1)	5.8	4.3	5.0	5.2	5.3	5.8	6.2	6.2	6.0	5.7	3.8	5.6
BULLSEYE LTZ	5.0	3.8	5.3	5.3	5.7	5.6	5.9	6.3	6.5	5.5	3.5	5.6

TABLE 25.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT CORVALLIS, OR (IN THE PACIFIC REGION) 1/  
2019-23 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/											MEAN
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
ESSENTIAL 2 (DLFPS-TF/3552)	5.3	4.3	4.7	5.4	5.8	5.7	5.8	6.0	6.0	5.7	4.3	5.6
DEGAS (LTP-TF-111)	5.2	4.3	4.9	5.4	5.6	5.8	6.0	6.1	6.0	5.5	4.0	5.6
TALLADEGA II (NAI-3N2)	5.5	4.2	4.7	5.6	5.7	6.0	5.9	5.9	6.1	5.4	3.3	5.6
BATTLE HAWK (NAI-ROS4)	4.8	4.0	4.7	5.3	5.8	6.1	6.1	6.0	6.0	5.4	4.0	5.6
SERENADE (PPG-TF 320)	5.3	4.2	5.1	5.5	6.1	5.9	5.9	5.7	5.6	5.5	3.7	5.6
FASTLANE (BY-TF-169)	5.2	4.3	4.8	5.3	5.7	5.8	6.1	6.1	5.9	5.4	4.0	5.6
VALSETZ (PPG-TF 257)	5.3	3.8	4.6	5.5	5.8	5.9	6.1	6.1	5.4	5.5	3.7	5.5
PPG-TF 337	4.7	3.8	4.3	5.3	5.6	6.1	6.2	6.1	6.1	5.5	3.7	5.5
DLFPS-321/3695	5.5	4.0	4.6	5.3	5.7	5.7	6.2	5.9	5.8	5.5	3.8	5.5
NT-3	4.7	4.2	4.6	5.5	5.8	6.0	6.1	6.0	5.8	5.5	3.5	5.5
FINELAWN SUPREME (RH3)	5.2	4.0	4.8	5.5	6.0	5.8	6.1	6.0	5.7	5.3	3.5	5.5
DLFPS-321/3693	5.2	3.5	4.7	5.4	5.7	5.9	6.3	6.0	5.6	5.4	3.7	5.5
PPG-TF 231	5.3	4.5	4.9	5.5	5.7	5.6	5.9	5.8	6.1	5.5	3.3	5.5
DLFPS-321/3694	5.7	3.3	4.2	5.0	5.5	5.7	6.1	6.5	6.2	5.6	3.8	5.5
RACEWAY (DLFPS-321/3696)	5.0	3.8	5.0	5.3	5.6	6.0	6.1	5.9	5.7	5.7	3.2	5.5
JT 233	5.0	4.0	4.7	5.3	5.7	5.8	6.0	6.2	5.9	5.3	3.3	5.5
PADRE 2	5.3	4.7	4.7	5.3	6.0	5.7	5.7	5.8	5.9	5.3	4.3	5.5
PPG-TF 249	5.0	3.8	4.7	5.3	5.8	5.7	6.0	6.1	5.6	5.5	3.8	5.5
PARAMOUNT	5.0	4.3	4.8	5.3	5.9	5.9	5.9	5.9	5.6	5.3	3.7	5.5
ESTRENA	5.0	4.2	4.6	5.3	6.0	5.7	6.0	5.8	5.8	5.3	3.8	5.5
ZION (BAR TF 134)	5.2	4.0	4.7	5.2	5.7	5.7	6.1	5.7	5.8	5.5	3.8	5.5
GALLARDO (DLFPS-TF/3550)	5.3	4.2	4.9	5.3	5.4	5.6	6.1	6.0	5.7	5.5	3.7	5.5
KIZZLE (K18-ROE)	5.2	4.5	4.6	5.3	5.7	5.9	5.9	5.5	5.4	5.6	4.2	5.5
FAIRFIELD (SETF104)	5.3	4.0	4.6	5.1	5.5	5.6	6.1	6.0	5.7	5.7	3.7	5.4
HEMI	5.2	3.7	4.6	5.3	5.5	5.7	6.0	5.9	6.1	5.4	3.7	5.4
ENDGAME (3N1)	5.3	4.7	4.9	5.3	5.7	5.8	5.8	5.8	5.4	5.1	3.7	5.4
TITAN GLX (TF445)	5.3	3.5	4.7	5.2	5.9	5.9	6.0	5.8	5.5	5.3	3.5	5.4
RC4	4.5	3.5	4.1	5.2	5.5	5.7	6.0	6.2	6.1	5.5	3.3	5.4
ROWDIER (DLFPS-321/3699)	4.8	4.2	4.7	5.3	5.6	5.5	6.1	5.7	5.5	5.4	3.8	5.4
RAPTOR III	4.5	4.0	4.6	5.3	5.5	5.7	6.3	5.9	6.1	5.2	3.5	5.4
FIERCE (K18-RS6)	5.0	3.7	4.3	5.3	5.5	5.5	6.0	6.0	5.8	5.5	3.5	5.4
GLX ACED (PST-5DART)	4.8	4.0	4.3	5.2	5.8	5.7	6.0	5.9	5.7	5.0	3.8	5.4
LBF	4.3	3.5	4.4	5.4	5.7	5.7	5.9	5.6	5.4	5.2	4.3	5.4
SETFM3	4.7	4.0	4.7	5.4	5.7	5.7	5.9	5.6	5.3	5.3	3.3	5.4
3B2	4.5	4.0	4.2	5.4	5.9	5.8	5.9	5.9	5.3	5.1	3.8	5.4
GRANDE 3	4.8	3.8	4.2	4.9	5.8	5.7	5.9	5.7	5.3	5.5	4.5	5.4
PPG-TF 318	5.2	3.3	4.7	4.9	5.4	5.7	6.0	6.1	5.7	5.2	3.5	5.3
RAD-TF105	4.8	4.0	4.4	5.3	5.7	5.6	5.9	5.7	5.6	5.1	3.3	5.3
A-TF31	5.0	3.8	4.4	5.0	5.7	5.5	5.9	6.0	5.5	5.1	3.8	5.3
FIREHAWK SLT	4.8	4.3	4.9	5.3	5.4	5.4	5.9	5.8	5.3	5.2	3.5	5.3
HELLCAT GLR (PST-5E6)	5.8	4.5	4.8	5.2	5.4	5.6	5.8	5.5	5.1	5.1	4.2	5.3
CAPITAN (DLFPS-321/3705)	4.7	3.5	4.3	4.9	5.6	5.5	6.0	5.7	5.7	5.3	3.7	5.3
PST-5GQ	4.5	4.0	4.7	5.3	5.5	5.5	5.7	5.8	5.3	5.3	3.7	5.3
TITAN MAX (TF456)	4.8	3.7	4.9	5.1	5.3	5.8	5.7	5.6	5.6	5.3	3.5	5.3
TANGO	4.7	4.2	4.4	5.1	5.7	5.7	5.8	5.5	5.2	5.1	3.7	5.2

TABLE 25.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH  
MONTH GROWN AT CORVALLIS, OR (IN THE PACIFIC REGION) 1/  
2019-23 DATA

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

NAME	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-TF 312	5.5	3.5	4.2	4.9	5.2	5.3	6.1	5.9	5.7	5.1	3.5	5.2
TOUGH (NAI-TUE)	4.2	3.8	4.3	5.3	5.7	5.5	5.9	5.6	5.5	4.9	3.2	5.2
TAR HEEL III (PST-5THM)	4.3	3.8	4.1	5.5	5.8	5.9	5.7	5.4	5.2	5.0	3.7	5.2
JT 517	4.5	3.8	4.4	4.9	5.5	5.6	5.8	5.5	5.3	5.4	3.7	5.2
LAFAYETTE (GO-AOMK)	4.5	4.2	4.8	5.4	5.7	5.7	5.4	5.5	5.2	4.9	3.3	5.2
FAYETTE	5.2	4.3	4.8	5.0	5.3	5.5	5.5	5.2	5.3	5.1	4.2	5.2
NAI-FQZ-17	4.5	3.8	4.3	5.0	5.5	5.6	5.7	5.4	5.3	5.2	3.7	5.2
GRO-PRO (SE53D2)	4.3	3.8	4.3	5.1	5.9	5.6	5.7	5.5	5.3	4.7	3.7	5.2
BIRMINGHAM	4.8	4.7	5.2	5.1	5.3	5.5	5.5	5.3	4.9	5.1	3.5	5.2
PST-5DC24	4.8	4.2	4.8	5.1	5.4	5.6	5.5	5.6	4.9	4.9	3.7	5.2
PST-5DZM	4.2	3.3	4.2	5.1	5.7	5.5	5.9	5.5	5.3	4.9	3.3	5.1
ATF1768	4.5	3.7	4.3	5.2	5.4	5.3	5.5	5.5	5.4	5.3	3.7	5.1
SETFM2	4.2	3.3	4.4	4.9	5.5	5.7	5.6	5.5	4.9	5.2	3.7	5.1
NATURALLY GREEN	4.7	4.2	4.6	4.9	5.4	5.3	5.5	5.5	5.3	5.0	4.0	5.1
TOPSHELF (BGR-TF3)	4.5	4.0	4.8	5.2	5.4	5.4	5.4	5.1	5.1	5.1	3.8	5.1
GLX REVIVE (PST-5GLBS)	4.8	4.3	4.6	5.0	5.3	5.4	5.7	5.5	5.3	4.9	3.5	5.1
ORIOLE (PST-5BYOB)	4.5	3.8	4.2	5.2	5.7	5.6	5.5	5.3	5.2	4.9	3.7	5.1
COPIOUS TF	4.8	3.7	4.6	5.1	5.2	5.4	5.5	5.4	5.2	5.1	3.7	5.1
BULLSEYE	4.8	4.2	4.4	5.1	5.3	5.3	5.7	5.3	4.9	4.8	4.0	5.1
LIFEGUARD	4.8	4.0	4.4	5.0	5.1	5.3	5.7	5.5	5.3	5.1	3.7	5.1
ATF2116	4.3	3.5	4.7	5.3	5.6	5.4	5.6	5.1	4.9	5.1	3.5	5.1
EXTRAVAGANZA (PST-5MCMO)	4.7	3.8	4.4	5.0	5.5	5.5	5.6	5.5	5.1	4.9	3.7	5.1
RAD-TF 115 (TURBO SS)	5.0	3.0	4.1	4.9	5.3	5.3	5.6	5.7	5.1	5.2	3.5	5.1
BENTLEY (DLFPS-321/3679)	5.2	4.2	4.4	4.9	5.3	5.2	5.3	5.0	5.3	5.3	3.8	5.1
BANDIT	4.5	4.0	4.3	4.9	5.3	5.2	5.6	5.1	5.3	5.1	3.8	5.1
RAD-TF131	4.8	3.5	4.0	4.9	5.1	5.2	5.7	5.5	5.2	5.2	3.7	5.1
PRO GOLD	4.7	3.3	4.1	5.0	5.5	5.3	5.6	5.4	5.1	4.9	3.8	5.0
AST8118LM	4.3	3.5	4.3	5.0	5.1	5.4	5.4	5.3	5.1	4.9	3.7	5.0
PST-5TRN	4.5	3.5	4.2	4.9	5.2	5.6	5.7	5.2	5.1	4.7	3.8	5.0
BRAVO 2	4.2	3.8	4.4	4.7	5.2	5.3	5.5	5.2	5.1	5.0	3.8	5.0
AST8218LM	4.2	3.7	4.3	4.8	5.4	5.4	5.5	4.9	5.0	4.7	3.3	4.9
GRAND PRIX (FC15-01P)	4.5	3.7	4.4	4.7	5.1	5.3	5.4	5.1	4.9	4.9	3.7	4.9
SE5STAR	4.5	3.5	4.2	4.9	5.1	5.2	5.4	5.2	4.7	4.5	3.3	4.8
MOONDANCE GLX	4.0	4.0	4.3	4.9	5.3	5.1	5.1	5.3	4.8	4.5	3.7	4.8
BAR-FA8230	4.2	4.0	4.0	4.8	5.1	5.2	5.2	4.9	5.1	4.7	3.8	4.8
BARNOBLE (BAR 9FE MAS)	4.5	3.5	4.1	4.9	4.9	5.0	5.3	4.9	5.0	4.7	3.7	4.8
PST-5MINK	4.2	3.5	4.1	4.8	5.1	5.3	5.3	5.0	4.8	4.6	3.2	4.8
ESCALADE	4.0	3.5	4.3	4.8	5.2	5.3	5.1	4.8	4.8	4.6	3.8	4.8
MONUMENT (PST-5SQB)	4.8	3.2	4.0	4.6	5.1	5.3	5.3	4.9	4.5	4.7	3.7	4.8
OG-WALK	4.3	3.7	4.4	4.8	5.2	5.0	5.1	4.6	4.5	4.4	3.8	4.7
PALOMAR	4.0	3.3	4.3	4.7	5.1	5.1	5.1	4.6	4.4	4.3	3.7	4.6
BAR FA 8228	4.5	3.7	3.9	4.4	4.7	4.9	4.9	4.5	4.6	4.5	3.8	4.5
KENTUCKY-31	2.5	3.0	3.0	2.8	2.8	3.0	2.5	2.4	2.8	3.2	3.3	2.8
LSD VALUE	0.7	1.8	1.5	0.9	0.7	0.8	0.6	0.6	0.7	0.7	0.8	0.5
C.V. (%)	12.6	40.1	35.0	22.9	17.0	20.5	14.6	14.2	14.6	18.5	18.3	13.3

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

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

TABLE 26.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMES, IA 1/  
2018-23 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY RATINGS			PERCENT SPRING	GROUND SUMMER	COVER FALL	QUALITY RATINGS								MEAN
				SPRING	SUMMER	FALL				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
A-TF31	6.2	6.6	8.0	6.1	6.3	5.8	91.0	97.0	52.0	6.3	6.9	6.2	6.8	6.2	6.5	6.8	6.6	6.5
AST8118LM	5.8	6.2	8.3	5.8	6.3	5.3	79.7	92.7	28.0	6.1	6.5	6.5	6.7	6.3	6.5	6.6	6.6	6.5
AST8218LM	6.5	6.5	8.0	5.8	5.9	5.3	90.3	97.0	56.3	6.3	6.7	6.3	6.7	6.4	6.4	6.7	6.3	6.5
BIRMINGHAM	5.9	6.5	9.0	5.8	6.0	5.3	89.3	92.3	65.7	6.2	6.5	6.1	6.7	6.4	6.7	6.7	6.8	6.5
BONFIRE (JS DTT)	6.0	6.3	7.7	6.0	6.1	5.3	82.3	95.3	47.3	6.2	6.5	6.3	6.7	6.2	6.4	6.8	6.5	6.5
BULLSEYE LTZ	5.9	6.3	8.3	5.8	5.6	5.3	91.7	93.0	45.0	6.3	6.7	6.2	6.7	6.3	6.6	6.7	6.3	6.5
DLFPS-321/3703	6.0	7.1	8.7	6.2	5.7	5.3	86.3	96.7	60.0	6.5	6.4	6.3	6.5	6.2	6.4	6.7	6.9	6.5
DLFPS-321/3708	6.2	6.5	6.7	5.9	6.1	5.3	88.0	97.3	56.7	6.3	6.5	6.5	6.7	6.2	6.5	6.8	6.3	6.5
FAYETTE	6.3	6.6	9.0	5.7	5.7	5.3	83.7	96.7	47.7	6.2	6.5	6.2	6.5	6.4	6.7	6.8	6.5	6.5
GLX REVIVE (PST-5GLBS)	6.0	6.4	8.0	5.6	6.0	5.2	90.0	96.7	37.7	6.6	6.5	6.3	6.5	6.1	6.4	6.9	6.3	6.5
OG-WALK	5.5	6.4	8.7	6.6	6.3	5.5	93.7	94.7	46.7	6.5	6.5	6.0	6.5	6.5	6.4	6.7	6.8	6.5
PARAMOUNT	6.1	6.4	7.3	6.4	6.2	4.9	94.7	96.7	44.7	6.5	6.7	6.6	6.6	6.3	6.5	6.8	6.2	6.5
PRO GOLD	5.7	6.1	8.7	5.8	5.8	5.3	96.3	96.3	56.7	6.4	6.5	6.1	6.5	6.3	6.6	6.6	6.7	6.5
ROWDIER (DLFPS-321/3699)	6.1	6.0	8.3	5.8	5.5	5.7	87.0	93.0	46.3	6.3	6.5	6.1	6.6	6.3	6.6	6.6	6.6	6.5
TANK (PPG-TF 338)	6.1	6.5	8.7	5.3	5.4	5.4	88.0	94.0	40.3	6.3	6.5	6.3	6.5	6.3	6.7	6.5	6.7	6.5
TOPSHELF (BGR-TF3)	6.7	6.8	8.3	6.0	5.8	5.3	86.3	97.0	29.7	6.3	6.6	6.2	6.7	6.3	6.6	6.7	6.7	6.5
XANADU (JT 268 )	6.1	6.9	7.3	5.6	5.7	5.4	86.7	93.7	53.3	6.3	6.6	6.3	6.7	6.3	6.6	6.7	6.3	6.5
ATF2116	6.1	6.5	8.0	5.7	6.0	5.6	92.3	97.7	54.0	6.4	6.3	6.3	6.8	6.1	6.3	6.6	6.5	6.4
BANDIT	6.0	6.9	7.0	6.3	5.8	5.4	95.0	98.7	54.0	6.3	6.7	6.3	6.7	6.0	6.5	6.5	6.4	6.4
BLADERUNNER 3 (DLFPS-321/3701)	5.9	6.7	7.7	5.7	5.7	5.3	95.0	95.3	39.3	6.4	6.3	6.1	6.5	6.2	6.3	6.5	6.4	6.4
CLASH (AH1)	5.8	6.9	8.0	6.3	5.7	5.4	83.7	98.0	49.3	6.5	6.5	6.5	6.5	6.1	6.5	6.7	6.3	6.4
DLFPS-321/3693	6.1	6.1	9.0	5.8	5.6	5.7	96.3	97.7	49.3	6.2	6.5	6.1	6.5	6.1	6.5	6.7	6.6	6.4
DLFPS-321/3694	6.3	6.4	8.7	6.3	6.4	5.5	88.7	98.3	22.3	6.2	6.4	6.3	6.5	6.3	6.3	6.6	6.3	6.4
DLFPS-321/3695	6.1	6.1	8.7	6.4	5.6	5.2	94.3	98.0	29.3	6.3	6.5	6.1	6.3	6.3	6.5	6.7	6.2	6.4
DLFPS-321/3706	6.0	6.2	7.7	5.7	5.6	5.6	98.0	97.7	52.3	6.3	6.5	6.3	6.5	6.1	6.2	6.9	6.3	6.4
DLFPS-TF/3553	6.1	6.5	8.3	5.4	6.0	5.6	82.3	98.0	42.3	6.3	6.5	6.0	6.7	6.2	6.3	6.8	6.6	6.4
DYNAMITE G-LS (PPG-TF 254)	5.6	6.5	7.3	6.2	6.4	5.3	91.7	96.7	38.0	6.5	6.3	6.2	6.2	6.3	6.4	6.6	6.5	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.5	6.4	8.7	6.0	5.7	5.1	92.0	94.7	46.3	6.3	6.7	6.0	6.7	6.3	6.5	6.6	6.1	6.4
FALCON SUPREME (RH1)	5.5	6.5	7.7	6.8	5.8	5.1	96.0	97.3	46.3	6.6	6.4	6.1	6.5	6.3	6.3	6.7	6.2	6.4
FIERCE (K18-RS6)	5.4	6.3	8.0	5.8	6.0	5.3	95.7	96.7	46.7	6.4	6.4	6.3	6.4	6.3	6.4	6.5	6.1	6.4
FIRECRACKER G-LS (PPG-TF 315)	5.8	6.5	8.3	6.2	6.0	5.3	92.3	96.3	42.3	6.5	6.5	6.2	6.5	6.4	6.5	6.7	6.0	6.4
FIREHAWK SLT	5.6	6.6	8.3	6.1	6.3	5.5	93.0	95.7	44.7	6.3	6.4	6.3	6.4	6.1	6.5	6.7	6.3	6.4
GEM (PPG-TF 316)	5.8	6.5	8.0	5.6	5.8	5.5	88.7	98.0	43.0	6.3	6.5	6.1	6.3	6.0	6.3	6.9	6.3	6.4
GLX ACED (PST-5DART)	6.1	6.6	8.3	5.7	5.9	5.7	85.3	97.0	43.3	6.3	6.4	6.0	6.7	6.1	6.3	6.9	6.7	6.4
GRAND PRIX (FC15-01P)	5.5	6.1	8.0	6.2	5.7	5.1	95.3	92.0	31.0	6.2	6.5	6.3	6.6	6.2	6.5	6.5	6.3	6.4
GRANDE 3	5.7	6.2	8.3	6.3	5.7	5.5	76.3	96.0	53.0	6.3	6.3	6.3	6.5	6.2	6.4	6.8	6.3	6.4
GRO-PRO (SE53D2)	5.8	6.5	8.3	6.3	5.8	5.3	91.0	98.3	29.0	6.4	6.5	6.1	6.5	6.2	6.3	6.7	6.3	6.4
HEMI	5.6	6.5	8.3	6.3	6.0	5.6	95.3	92.0	33.7	6.2	6.3	6.0	6.7	6.3	6.5	6.8	6.5	6.4
HOUNDOG NINE (DLFPS-321/3702)	6.1	6.5	8.0	5.6	5.7	5.1	93.7	96.0	44.3	6.6	6.5	6.3	6.3	6.2	6.4	6.6	6.0	6.4
JT 233	5.8	6.7	8.0	5.8	5.9	5.3	91.0	96.3	59.3	6.5	6.5	6.1	6.5	6.3	6.4	6.7	6.5	6.4
LBF	6.3	6.5	8.7	5.8	6.2	5.3	85.0	93.3	38.0	6.3	6.2	6.2	6.8	6.3	6.3	6.8	6.4	6.4
MOONDANCE GLX	5.8	6.5	8.0	6.2	6.1	5.0	94.0	98.0	49.7	6.3	6.8	6.5	6.5	6.1	6.1	6.6	6.0	6.4
NATURALLY GREEN	7.1	6.5	8.3	6.3	5.8	5.2	89.3	98.0	43.0	6.2	6.8	6.3	6.6	6.2	6.3	6.6	6.3	6.4
NT-3	6.1	6.4	9.0	5.9	5.7	5.3	94.7	98.0	43.0	6.6	6.3	6.3	6.5	6.0	6.5	6.6	6.6	6.4
OKEEFE (LTP-TF-122)	6.0	6.3	8.7	5.7	5.3	5.3	84.3	92.0	46.7	5.9	6.4	6.3	6.5	6.3	6.6	6.5	6.3	6.4



TABLE 26.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMES, IA 1/  
2018-23 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY RATINGS			PERCENT SPRING	GROUND SUMMER	COVER FALL	QUALITY RATINGS								
				SPRING	SUMMER	FALL				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
ORIOLE (PST-5BYOB)	6.0	5.8	8.0	6.1	5.8	5.2	98.7	96.7	58.7	6.3	6.6	6.4	6.4	6.2	6.2	6.5	6.3	6.4
PADRE 2	6.0	6.4	7.7	5.9	6.5	5.3	95.3	96.3	28.0	6.3	6.5	6.3	6.3	6.3	6.3	6.6	6.4	6.4
PALOMAR	5.7	6.8	7.0	6.1	6.3	5.5	86.0	96.3	30.7	6.3	6.4	6.3	6.5	6.5	6.2	6.6	6.1	6.4
PPG-TF 249	5.9	6.5	8.0	5.6	5.3	5.3	92.3	92.0	31.0	6.4	6.6	6.2	6.4	6.4	6.6	6.6	6.3	6.4
PPG-TF 318	5.4	6.4	7.7	6.0	5.5	5.5	93.7	97.3	53.7	6.3	6.5	6.1	6.3	6.3	6.5	6.7	6.4	6.4
PST-5DC24	6.5	6.2	7.3	5.5	6.2	5.4	96.0	97.3	56.0	6.3	6.5	6.0	6.5	6.3	6.3	6.7	6.5	6.4
RACEWAY (DLFPS-321/3696)	5.9	6.3	7.7	6.3	6.3	5.3	87.0	95.0	36.3	6.4	6.4	5.9	6.6	6.5	6.4	6.7	6.1	6.4
RAD-TF 115 (TURBO SS)	6.2	6.7	7.7	5.5	5.8	5.2	88.3	96.3	38.0	6.3	6.5	6.1	6.7	6.3	6.4	6.7	6.1	6.4
RAD-TF131	5.7	6.5	7.3	6.2	5.8	5.6	87.3	96.3	45.7	6.1	6.5	6.1	6.5	6.1	6.4	6.5	6.5	6.4
RAPTOR LS (PPG-TF 336)	5.9	5.9	8.3	6.6	5.9	5.3	98.0	97.7	52.3	6.3	6.7	6.4	6.5	6.2	6.1	6.7	6.2	6.4
RC4	6.0	6.7	7.7	5.8	5.8	5.7	69.3	92.3	41.3	6.3	6.3	6.4	6.5	6.0	6.4	6.9	6.5	6.4
RHF	5.4	5.9	9.0	5.6	5.8	5.1	94.3	96.7	43.0	6.2	6.5	6.1	6.5	6.3	6.7	6.8	6.3	6.4
ROVER (PPG-TF 306)	5.7	5.9	7.3	5.3	6.0	5.2	94.3	88.0	50.7	6.1	6.3	6.3	6.5	6.4	6.5	6.7	6.2	6.4
RS1	6.1	6.2	8.7	5.7	5.7	5.3	84.7	97.3	60.7	6.3	6.5	6.2	6.5	6.3	6.5	6.5	6.3	6.4
SE5STAR	5.3	6.2	8.0	6.1	5.8	5.3	91.7	96.7	34.7	6.3	6.3	6.1	6.7	6.1	6.5	6.5	6.5	6.4
SERENADE (PPG-TF 320)	5.5	6.3	9.0	5.2	6.1	5.2	89.0	97.0	54.0	6.4	6.3	6.3	6.7	6.5	6.2	6.6	6.4	6.4
SETFM2	6.1	6.4	8.0	5.8	6.3	5.3	96.3	95.0	64.7	6.1	6.4	6.3	6.7	6.3	6.6	6.8	6.3	6.4
SETFM3	5.9	6.5	7.3	5.8	6.1	5.5	86.0	96.7	52.0	6.2	6.4	6.5	6.5	6.5	6.4	6.7	6.3	6.4
SPYDER 2LS (ZRC1)	5.4	6.1	7.7	6.4	6.1	5.1	98.0	93.7	54.0	6.4	6.7	6.5	6.3	6.3	6.5	6.7	6.1	6.4
SR 8700 (TMT1)	6.7	6.1	8.0	5.8	5.5	5.4	94.0	97.3	36.3	6.2	6.7	6.3	6.6	6.1	6.6	6.7	6.2	6.4
STEALTH (PPG-TF 238)	5.9	6.5	7.3	6.2	6.2	4.8	94.0	97.0	36.3	6.3	6.5	6.4	6.3	6.3	6.5	6.7	6.0	6.4
TALLADEGA II (NAI-3N2)	5.5	6.1	8.0	6.0	5.9	5.3	96.7	97.0	65.0	6.3	6.5	6.1	6.4	6.3	6.6	6.5	6.1	6.4
TAR HEEL III (PST-5THM)	6.1	6.0	8.7	5.9	6.0	5.3	96.7	95.7	58.3	6.2	6.4	6.3	6.3	6.5	6.5	6.9	6.5	6.4
TD2	6.6	5.9	8.0	5.4	6.6	5.3	88.7	96.3	26.3	5.9	6.5	6.1	6.6	6.3	6.3	6.8	6.3	6.4
TITAN GLX (TF445)	5.8	6.1	8.7	5.9	6.1	5.4	87.7	88.3	42.7	6.3	6.4	6.3	6.5	6.3	6.5	6.7	6.1	6.4
TITANIUM G-LS (PPG-TF 255)	5.7	6.3	7.7	6.0	5.3	5.3	95.7	97.3	34.3	6.3	6.5	6.2	6.5	6.3	6.5	6.8	6.4	6.4
TRIAD (PPG-TF 323)	5.8	6.4	8.0	5.6	5.9	5.6	92.0	97.0	58.7	6.2	6.5	6.5	6.5	6.2	6.5	6.6	6.7	6.4
VALSETZ (PPG-TF 257)	5.6	6.4	8.3	6.0	5.8	5.3	91.0	97.0	49.3	6.3	6.3	6.3	6.4	6.3	6.5	6.7	6.3	6.4
ZION (BAR TF 134)	5.5	6.4	7.7	6.0	5.8	5.2	92.3	96.3	56.3	6.3	6.3	6.2	6.5	6.1	6.3	6.8	6.4	6.4
3B2	5.7	5.8	8.3	6.0	5.8	5.6	90.0	95.0	42.3	5.9	6.5	6.4	6.5	6.2	6.0	6.6	5.9	6.3
5LSS	5.8	5.9	7.3	5.4	5.9	5.3	90.7	97.3	44.7	5.9	6.5	6.3	6.7	6.0	6.1	6.5	6.2	6.3
ATF1768	6.0	6.7	8.0	6.1	6.3	5.3	94.3	92.7	19.7	6.4	6.5	6.1	6.5	6.3	6.1	6.6	6.2	6.3
AVENGER III (PPG-TF 308)	5.6	6.3	8.7	5.8	5.9	5.0	89.3	98.0	39.0	6.3	6.2	5.9	6.4	6.2	6.5	6.5	6.1	6.3
BAR FA 8228	6.3	6.7	8.0	6.3	5.9	5.2	89.3	95.7	33.0	6.0	6.5	6.0	6.5	6.2	6.3	6.7	6.3	6.3
BRAVO 2	6.3	6.1	8.0	5.6	6.3	5.3	95.3	97.7	39.0	6.1	6.6	6.3	6.5	6.1	6.1	6.7	6.3	6.3
BULLSEYE	5.5	6.3	7.0	6.3	5.9	5.3	94.7	96.0	41.0	6.4	6.3	6.3	6.5	6.2	6.3	6.7	5.7	6.3
CAPITAN (DLFPS-321/3705)	5.9	6.0	8.0	5.8	6.0	4.9	97.7	96.3	33.7	6.3	6.5	6.1	6.4	6.2	6.3	6.6	6.1	6.3
DAYBREAK (AH2)	5.3	6.4	7.7	5.9	5.9	5.3	94.7	97.7	26.7	6.4	6.5	6.1	6.4	6.3	6.1	6.6	5.6	6.3
DLFPS-321/3707	5.8	6.8	6.3	6.2	5.8	5.0	91.3	94.3	40.3	6.5	6.5	6.5	6.4	6.1	6.3	6.5	5.6	6.3
DRAGSTER	5.7	6.1	7.7	5.7	6.1	5.2	94.7	96.3	37.0	6.1	6.4	6.3	6.4	6.3	6.3	6.4	6.0	6.3
ENDGAME (3N1)	6.1	6.7	7.7	5.8	6.2	5.2	90.0	96.0	42.3	6.3	6.5	6.1	6.5	6.1	6.3	6.3	6.1	6.3
ESCALADE	5.5	6.0	9.0	5.6	5.3	5.5	85.0	96.7	53.3	6.1	6.0	6.2	6.3	6.3	6.3	6.7	6.4	6.3
ESTRENA	5.6	6.0	5.7	5.8	6.2	5.6	93.3	94.0	53.7	6.2	6.5	6.1	6.6	6.1	6.2	6.5	5.9	6.3
EXPANSE (PPG-TF 262)	5.9	6.5	7.7	5.9	5.8	4.8	88.0	94.7	31.7	6.3	6.3	6.3	6.3	6.3	6.5	6.7	5.9	6.3
EXTRAVAGANZA (PST-5MCMO)	5.7	6.3	7.7	6.3	6.0	5.3	90.7	98.0	44.0	6.1	6.3	6.0	6.5	6.1	5.9	6.7	6.4	6.3

TABLE 26.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMES, IA 1/  
2018-23 DATA

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

NAME	GENETIC SPRING LEAF			DENSITY RATINGS			PERCENT GROUND COVER			QUALITY RATINGS								
	COLOR	GREENUP	TEXTURE	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
FAIRFIELD (SETF104)	5.9	6.0	7.7	6.2	5.9	5.3	91.0	83.0	39.7	6.1	6.4	6.1	6.3	6.3	6.3	6.5	6.1	6.3
FASTLANE (BY-TF-169)	5.7	6.3	7.3	4.8	5.5	5.3	96.3	95.0	43.3	6.1	6.5	6.3	6.3	6.3	6.3	6.6	6.2	6.3
GALACTIC (SESCR1)	5.5	6.1	6.7	5.8	5.5	5.5	88.3	94.0	45.7	6.2	6.3	6.3	6.5	6.0	6.2	6.6	6.0	6.3
JT 517	6.5	6.5	8.0	6.3	6.0	5.3	89.7	97.3	32.7	6.2	6.5	6.5	6.4	6.2	6.1	6.5	6.0	6.3
K18-WB1	5.5	6.0	6.7	6.2	5.8	5.3	92.0	98.7	34.0	6.4	6.5	5.9	6.5	6.2	6.1	6.7	6.3	6.3
KIZZLE (K18-ROE)	6.2	6.5	8.3	5.6	5.7	5.1	86.0	94.7	66.3	6.1	6.5	6.5	6.2	6.3	6.6	6.3	6.1	6.3
LIFEGUARD	5.8	6.1	8.0	6.3	5.8	5.2	93.7	96.0	34.7	6.3	6.3	6.3	6.5	6.1	6.1	6.6	5.8	6.3
NAI-ST5	6.1	6.4	7.0	6.2	6.1	5.3	92.3	93.0	50.3	6.1	6.5	6.1	6.5	6.3	6.3	6.7	6.1	6.3
PPG-TF 231	5.3	6.0	7.7	6.3	6.1	5.0	97.0	92.3	49.7	6.4	6.4	6.4	6.5	6.3	6.4	6.4	5.7	6.3
PPG-TF 312	5.5	5.9	7.7	6.0	5.6	5.5	82.0	96.7	64.7	6.1	5.9	6.1	6.4	6.3	6.5	6.6	6.1	6.3
PROVIDENCE (GO-RH20)	5.6	6.6	8.7	5.8	5.9	5.5	86.7	89.0	47.7	6.1	6.1	6.2	6.4	6.4	6.7	6.5	6.2	6.3
PST-5DZM	5.5	6.1	7.3	6.8	6.2	5.9	91.7	96.0	62.3	6.0	6.3	6.0	6.7	6.2	6.2	6.8	6.3	6.3
PST-5MINK	6.1	6.2	7.7	6.2	5.7	5.4	90.0	97.7	37.3	6.5	6.3	6.3	6.4	6.1	6.3	6.7	5.9	6.3
PST-5TRN	5.7	6.6	8.3	6.3	5.5	5.3	85.0	96.7	40.0	6.2	6.4	6.1	6.4	6.1	6.3	6.7	6.2	6.3
RAPTOR III	5.7	6.3	8.0	6.4	6.0	5.3	94.0	94.7	36.0	6.1	6.5	6.1	6.5	6.1	6.2	6.7	6.3	6.3
SOUTHSIDE (PPG-TF 267)	5.5	5.8	7.0	5.9	6.1	5.2	87.3	95.7	53.0	6.1	6.6	6.4	6.3	6.1	6.2	6.5	5.9	6.3
SYMPHONY (PPG-TF 305)	6.0	6.5	6.3	5.8	5.2	5.1	90.3	98.7	55.3	6.5	6.5	6.4	6.3	6.2	6.3	6.5	5.9	6.3
TANGO	5.9	6.3	7.7	5.9	5.5	5.3	94.7	98.3	37.0	6.3	6.4	6.3	6.6	6.0	5.9	6.7	5.9	6.3
TEACHER (PPG-TF 313)	5.9	6.0	8.3	5.3	5.2	5.3	83.7	97.0	33.3	6.1	6.5	6.1	6.5	6.1	6.3	6.5	5.8	6.3
TITAN MAX (TF456)	5.8	6.3	9.0	5.8	5.8	5.2	80.3	94.7	34.3	6.1	6.1	6.3	6.5	6.3	6.5	6.8	5.9	6.3
TOUGH (NAI-TUE)	5.7	6.1	7.3	6.2	5.3	5.0	88.3	95.7	56.0	5.9	6.5	6.3	6.4	6.3	6.3	6.5	6.1	6.3
TYCOON (COL-TF-148)	5.8	5.9	8.3	6.1	6.0	5.4	92.7	97.7	39.0	5.9	6.1	5.9	6.5	6.3	6.1	6.9	6.5	6.3
BAR-FA8230	5.6	6.1	7.0	6.0	6.0	5.4	90.0	96.7	41.0	6.2	6.5	6.3	6.1	6.1	6.3	6.7	5.7	6.2
BARNOBLE (BAR 9FE MAS)	6.2	6.3	6.7	6.0	5.9	5.7	77.0	95.0	25.0	6.1	6.3	5.9	6.5	6.2	5.9	6.3	6.0	6.2
BATTLE HAWK (NAI-ROS4)	5.5	6.1	5.3	6.1	5.7	5.3	91.3	92.7	43.0	6.2	6.2	6.2	6.5	5.8	6.3	6.5	5.7	6.2
BENTLEY (DLFPS-321/3679)	6.1	6.0	7.7	5.8	5.8	5.1	74.0	97.0	32.3	6.0	6.2	6.0	6.5	6.1	6.5	6.5	5.9	6.2
COPIOUS TF	6.2	6.3	8.3	6.0	5.4	5.1	86.0	98.0	29.0	6.3	6.2	6.3	6.4	6.1	6.5	6.5	5.7	6.2
DEGAS (LTP-TF-111)	5.8	6.6	8.0	6.0	5.8	5.2	81.3	97.3	49.7	6.1	6.2	5.9	6.4	6.1	6.3	6.7	6.1	6.2
FINELAWN SUPREME (RH3)	5.6	5.9	8.0	5.6	6.1	5.0	96.0	97.3	50.3	6.1	6.1	6.1	6.5	6.2	6.3	6.5	6.0	6.2
FIRENZA II (PPG-TF 244)	5.5	6.1	7.3	5.3	5.8	5.4	96.0	98.0	50.3	6.1	6.2	6.1	6.5	5.9	6.1	6.7	6.3	6.2
GALLARDO (DLFPS-TF/3550)	6.0	6.3	7.7	5.5	5.7	5.6	89.7	96.7	39.7	5.9	6.5	6.1	6.5	5.9	6.2	6.3	6.2	6.2
HELLCAT GLR (PST-5E6)	5.5	6.0	7.7	6.1	5.8	5.4	97.3	93.7	35.3	6.3	6.1	6.1	6.3	6.0	6.2	6.5	6.1	6.2
K18-NSE	5.7	6.2	6.0	5.8	5.2	5.4	94.7	96.3	56.0	6.1	6.3	6.2	6.3	5.9	6.2	6.5	6.0	6.2
LAFAYETTE (GO-AOMK)	6.3	5.9	7.3	6.0	5.9	5.3	90.3	96.0	42.0	6.1	6.6	6.4	6.5	6.0	5.7	6.5	6.0	6.2
MONUMENT (PST-5SQB)	5.5	5.7	6.7	6.5	6.3	5.1	96.3	97.0	42.3	6.0	6.1	6.2	6.4	6.3	6.0	6.4	6.4	6.2
PPG-TF 337	5.3	5.9	6.0	6.1	5.8	4.9	97.3	97.7	45.0	6.1	6.3	6.2	6.3	6.1	6.0	6.5	5.8	6.2
PST-5GQ	5.9	6.7	8.3	5.4	5.7	5.3	84.3	98.3	44.0	6.1	6.3	6.0	6.3	6.1	6.1	6.6	6.2	6.2
RAD-TF105	6.2	6.5	6.7	6.0	6.3	4.9	87.3	85.3	44.0	6.1	6.5	6.3	6.5	6.1	6.0	6.3	5.9	6.2
RHL2	5.4	6.1	6.0	6.1	5.6	5.7	89.0	97.0	38.7	6.1	6.5	6.3	6.4	5.9	6.1	6.3	6.2	6.2
NAI-FQZ-17	6.0	5.9	7.3	5.2	5.8	5.4	94.3	97.0	37.3	5.9	6.3	5.9	6.3	6.0	5.9	6.5	6.1	6.1
RDC	5.9	5.8	8.0	6.3	6.0	5.1	91.7	95.0	45.0	5.8	6.4	6.0	6.3	6.1	6.3	6.4	5.8	6.1
KENTUCKY-31	4.7	5.3	8.0	5.8	6.1	5.3	90.3	86.3	57.7	6.0	6.1	5.8	6.1	5.9	5.9	6.3	5.7	6.0
LSD VALUE	2.4	1.5	0.8	7.6	6.8	12.8	27.6	17.8	74.4	2.9	3.8	3.9	3.0	3.7	1.5	3.2	3.4	2.4
C.V. (%)	21.3	16.3	12.6	27.8	24.5	39.7	9.0	4.6	38.5	12.7	13.9	14.5	11.1	13.4	11.5	11.4	18.5	8.5

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 26.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMES, IA 1/  
2018-23 DATA

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

NAME	PERCENT ESTABLISHMENT		COLOR RATINGS		PERCENT GROUND COVER APRIL-NOVEMBER								
	OCT	NOV	SEPT	OCT	NOV	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV
A-TF31	35.0	68.3	6.3	6.3	6.5	73.3	84.3	96.7	79.8	74.6	56.6	79.8	65.7
AST8118LM	31.7	68.3	7.0	6.3	7.7	72.3	83.3	97.7	76.3	73.8	57.8	82.6	74.8
AST8218LM	36.7	76.7	6.5	6.8	6.8	76.7	87.1	95.7	81.3	78.5	53.2	81.4	66.2
BIRMINGHAM	36.7	76.7	7.3	6.3	7.3	78.9	85.9	93.7	78.0	73.8	56.3	86.2	72.8
BONFIRE (JS DTT)	38.3	81.7	5.2	5.5	6.0	74.3	86.3	97.0	90.5	81.0	52.4	83.9	69.3
BULLSEYE LTZ	43.3	81.7	5.8	5.7	5.0	79.8	90.9	97.3	87.7	79.4	58.6	85.4	73.7
DLFPS-321/3703	21.7	56.7	6.0	6.0	6.2	75.8	83.6	97.0	86.9	78.8	55.9	83.8	73.8
DLFPS-321/3708	35.0	70.0	6.0	6.2	6.0	71.9	83.3	95.7	82.7	73.6	49.6	76.3	64.5
FAYETTE	26.7	70.0	5.8	5.8	5.8	72.0	85.3	97.7	88.5	82.0	57.1	87.6	76.2
GLX REVIVE (PST-5GLBS)	26.7	76.7	5.5	5.3	5.5	78.4	86.1	96.3	85.6	79.1	59.9	83.4	73.0
OG-WALK	21.7	66.7	6.7	5.8	7.0	70.2	84.8	97.3	82.3	77.4	59.8	85.2	71.8
PARAMOUNT	28.3	70.0	5.8	5.5	5.0	71.4	84.1	95.7	87.2	81.7	51.4	79.4	70.7
PRO GOLD	38.3	76.7	5.7	5.3	5.2	80.2	88.8	98.7	89.9	79.3	57.3	82.7	70.8
ROWDIER (DLFPS-321/3699)	31.7	75.0	6.7	6.2	6.7	74.1	84.3	95.7	91.1	81.4	53.6	85.5	73.2
TANK (PPG-TF 338)	36.7	70.0	6.3	6.0	6.0	81.4	87.3	97.3	88.3	86.6	63.4	86.3	77.7
TOPSHELF (BGR-TF3)	43.3	78.3	7.3	6.5	6.8	77.9	90.8	96.0	83.6	77.1	57.3	80.6	75.8
XANADU (JT 268 )	25.0	61.7	6.3	6.2	6.0	71.6	85.0	98.0	87.9	79.8	54.8	82.2	69.7
ATF2116	23.3	68.3	7.0	6.8	7.3	73.7	81.7	96.3	82.7	71.6	46.8	76.3	59.3
BANDIT	31.7	65.0	6.8	6.7	6.8	71.3	86.7	97.3	83.1	72.6	56.0	82.2	67.8
BLADERUNNER 3 (DLFPS-321/3701)	23.3	60.0	6.2	6.7	6.0	73.2	81.8	97.3	85.9	75.3	51.7	82.8	67.3
CLASH (AH1)	45.0	80.0	5.3	5.3	4.0	79.4	88.1	97.3	90.8	81.0	57.4	84.7	70.7
DLFPS-321/3693	30.0	70.0	5.8	6.0	6.0	78.6	87.3	96.7	87.7	79.8	51.7	83.5	75.5
DLFPS-321/3694	31.7	76.7	5.8	5.7	6.3	77.1	88.1	94.3	83.5	75.8	53.1	84.1	68.8
DLFPS-321/3695	35.0	71.7	5.5	5.7	5.0	79.3	86.3	97.0	87.9	79.5	56.4	81.3	71.5
DLFPS-321/3706	30.0	65.0	5.5	5.5	5.2	79.7	87.5	93.0	86.9	77.4	49.2	81.2	68.5
DLFPS-TF/3553	26.7	65.0	6.3	6.0	6.7	73.1	85.6	95.7	86.7	76.7	50.8	81.8	69.7
DYNAMITE G-LS (PPG-TF 254)	30.0	55.0	5.7	5.0	4.5	69.3	83.3	96.7	84.9	82.1	59.8	86.7	80.8
ESSENTIAL 2 (DLFPS-TF/3552)	25.0	76.7	5.8	6.2	5.7	78.0	81.7	95.3	88.1	80.2	52.7	83.6	73.2
FALCON SUPREME (RH1)	38.3	66.7	5.2	5.2	4.7	79.1	86.3	98.3	86.7	83.0	59.0	86.4	73.7
FIERCE (K18-RS6)	31.7	66.7	5.2	4.8	4.3	76.3	87.1	94.3	87.8	79.0	57.3	82.1	70.5
FIRECRACKER G-LS (PPG-TF 315)	26.7	66.7	5.0	5.2	4.2	78.6	85.8	97.0	91.5	81.3	56.7	83.4	73.2
FIREHAWK SLT	25.0	63.3	5.7	5.2	4.7	75.1	82.3	97.3	88.8	80.1	55.2	85.0	73.5
GEM (PPG-TF 316)	36.7	75.0	6.2	5.8	6.2	71.3	85.4	97.3	89.1	81.5	53.9	84.7	68.7
GLX ACED (PST-5DART)	23.3	58.3	5.3	5.3	6.2	69.3	81.3	96.3	91.3	80.8	59.4	84.3	71.8
GRAND PRIX (FC15-01P)	23.3	63.3	6.2	5.7	6.0	66.2	79.5	97.0	77.6	76.9	58.0	84.9	71.0
GRANDE 3	30.0	70.0	5.5	5.5	5.7	72.8	83.8	97.7	87.6	80.5	52.2	84.2	72.0
GRO-PRO (SE53D2)	26.7	73.3	5.7	5.3	6.2	71.6	83.6	98.3	90.2	81.3	59.3	86.1	74.5
HEMI	23.3	68.3	6.0	5.2	6.0	73.2	86.1	97.0	87.5	81.9	60.0	86.6	77.0
HOUNDOG NINE (DLFPS-321/3702)	31.7	76.7	6.2	6.2	6.3	75.7	88.8	96.3	87.3	75.2	55.8	81.3	66.2
JT 233	38.3	70.0	6.0	5.7	5.7	74.1	86.1	95.3	86.2	76.4	54.6	80.9	70.2
LBF	30.0	70.0	7.0	6.7	7.5	73.2	82.1	97.0	83.0	73.6	50.7	79.0	69.3
MOONDANCE GLX	25.0	63.3	5.5	5.3	5.3	69.6	82.0	95.7	91.8	78.9	54.1	81.3	65.5
NATURALLY GREEN	30.0	70.0	6.3	6.8	7.2	71.2	86.8	96.0	77.8	74.4	49.4	77.9	59.0
NT-3	28.3	70.0	5.8	5.8	6.3	79.0	85.0	95.0	86.8	78.3	55.2	83.2	75.3
OKEEFE (LTP-TF-122)	31.7	63.3	5.3	5.5	5.2	75.7	86.3	98.3	88.3	81.3	51.2	84.7	71.7

TABLE 26.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMES, IA 1/  
2018-23 DATA

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

NAME	PERCENT ESTABLISHMENT		COLOR RATINGS				PERCENT GROUND COVER APRIL-NOVEMBER						
	OCT	NOV	SEPT	OCT	NOV	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV
ORIOLE (PST-5BYOB)	33.3	70.0	6.2	5.5	5.0	71.9	84.6	97.0	89.8	78.8	52.0	83.9	67.8
PADRE 2	40.0	73.3	6.0	5.8	6.0	78.6	87.5	97.0	84.2	76.8	55.4	81.1	75.2
PALOMAR	28.3	68.3	6.8	6.3	6.3	74.6	83.9	96.0	81.8	77.2	58.6	80.5	66.5
PPG-TF 249	31.7	66.7	6.0	5.8	5.3	77.0	87.9	97.0	90.8	83.9	58.4	84.8	76.5
PPG-TF 318	31.7	66.7	5.8	5.8	5.3	74.9	88.3	96.3	87.9	81.2	58.1	82.1	71.8
PST-5DC24	33.3	65.0	6.2	6.3	7.0	68.2	73.7	95.3	78.5	68.7	49.0	76.7	63.8
RACEWAY (DLFPS-321/3696)	36.7	73.3	6.0	5.5	5.7	74.7	85.5	98.3	85.3	76.6	58.4	81.9	69.3
RAD-TF 115 (TURBO SS)	26.7	63.3	7.0	6.3	7.2	66.4	79.8	97.3	79.6	71.1	52.1	77.8	65.0
RAD-TF131	30.0	66.7	6.7	6.5	6.7	67.1	80.4	96.7	77.4	72.6	55.4	79.4	65.8
RAPTOR LS (PPG-TF 336)	43.3	76.7	5.5	5.5	5.2	76.4	85.3	97.0	90.3	80.0	54.2	85.9	67.5
RC4	28.3	66.7	5.8	6.2	5.5	71.9	82.2	98.0	90.8	79.9	55.8	84.7	73.5
RHF	40.0	78.3	5.3	5.2	4.5	86.2	90.3	98.3	91.0	84.1	61.7	86.3	76.3
ROVER (PPG-TF 306)	23.3	60.0	6.0	6.0	5.8	74.3	83.5	96.7	87.8	80.2	56.8	81.1	66.7
RS1	38.3	73.3	5.7	6.2	5.7	78.3	90.7	95.7	87.6	82.8	52.4	81.7	75.0
SE5STAR	25.0	61.7	6.2	5.3	6.0	69.6	80.3	97.7	85.7	80.3	60.4	85.9	73.0
SERENADE (PPG-TF 320)	28.3	78.3	5.3	5.3	5.0	85.3	87.8	98.7	89.0	77.8	59.3	84.3	69.7
SETFM2	26.7	63.3	7.0	6.0	6.5	71.6	82.4	95.3	82.5	75.2	55.8	78.8	67.0
SETFM3	26.7	60.0	6.8	6.2	5.8	70.1	83.7	97.0	80.2	74.7	53.0	79.8	68.7
SPYDER 2LS (ZRC1)	26.7	63.3	4.7	4.7	3.5	77.9	90.1	97.7	90.3	84.7	59.6	86.5	72.2
SR 8700 (TMT1)	40.0	71.7	5.7	6.5	6.7	69.6	82.7	94.7	87.3	78.6	55.1	81.6	65.8
STEALTH (PPG-TF 238)	28.3	66.7	5.5	5.3	4.5	72.0	86.5	98.3	92.7	82.8	54.6	83.0	70.5
TALLADEGA II (NAI-3N2)	36.7	68.3	5.2	5.7	5.0	80.3	83.2	97.3	88.7	79.4	56.2	84.4	69.7
TAR HEEL III (PST-5THM)	30.0	73.3	5.3	5.5	5.5	71.3	83.8	95.7	82.5	79.9	54.9	83.1	71.8
TD2	40.0	76.7	5.8	6.0	5.3	80.6	87.0	95.3	88.3	77.0	51.4	82.7	75.2
TITAN GLX (TF445)	28.3	73.3	5.8	5.3	4.7	78.3	85.6	97.7	83.1	83.7	58.1	87.4	74.2
TITANIUM G-LS (PPG-TF 255)	26.7	66.7	6.5	5.7	5.7	72.3	82.4	97.7	88.1	83.1	57.4	86.7	76.8
TRIAD (PPG-TF 323)	30.0	73.3	6.0	6.3	6.3	76.0	86.8	97.3	84.1	73.6	52.7	82.8	71.3
VALSETZ (PPG-TF 257)	33.3	73.3	6.0	5.7	5.5	76.0	84.9	99.0	84.1	80.8	58.6	86.0	70.0
ZION (BAR TF 134)	26.7	76.7	5.5	5.3	4.2	81.4	91.3	96.7	91.6	78.8	55.2	81.9	71.0
3B2	33.3	63.3	5.5	5.5	4.8	66.2	83.6	95.0	84.4	77.5	52.9	83.5	70.2
5LSS	36.7	75.0	4.8	5.3	4.2	79.2	89.8	97.3	91.1	75.9	47.6	78.2	65.0
ATF1768	28.3	65.0	6.5	6.3	6.5	68.9	80.9	97.0	87.8	76.3	51.9	81.7	66.5
AVENGER III (PPG-TF 308)	31.7	51.7	6.2	5.3	5.0	72.6	79.6	98.7	88.9	82.9	58.1	86.6	73.3
BAR FA 8228	31.7	73.3	6.2	5.3	6.0	74.4	84.4	95.0	80.6	73.8	52.4	78.9	65.7
BRAVO 2	36.7	70.0	5.8	5.5	6.3	71.2	83.1	93.3	80.2	73.3	48.8	78.0	62.7
BULLSEYE	28.3	60.0	5.5	5.8	5.5	71.6	82.1	98.3	83.2	79.4	57.4	82.1	64.2
CAPITAN (DLFPS-321/3705)	36.7	76.7	5.5	5.0	4.7	77.7	90.3	98.0	89.6	78.1	61.9	85.3	74.2
DAYBREAK (AH2)	46.7	83.3	5.2	5.5	4.2	81.9	92.4	97.0	91.4	82.3	53.7	81.8	65.7
DLFPS-321/3707	26.7	65.0	6.3	5.7	5.2	75.2	87.5	96.0	85.1	77.3	50.4	77.5	64.2
DRAGSTER	25.0	65.0	5.5	5.3	3.8	67.4	85.9	98.7	88.8	79.7	53.2	81.8	71.3
ENDGAME (3N1)	25.0	61.7	6.3	6.2	5.8	73.0	82.8	98.0	82.8	76.5	52.6	80.7	70.5
ESCALADE	36.7	78.3	5.2	5.7	5.8	79.7	88.5	90.3	83.3	76.5	54.1	84.7	73.8
ESTRENA	35.0	75.0	5.2	6.0	4.7	76.1	88.0	96.3	85.2	77.6	50.4	77.4	63.8
EXPANSE (PPG-TF 262)	21.7	67.3	6.0	5.3	4.8	79.0	89.2	95.0	87.7	77.9	55.2	80.2	68.0
EXTRAVAGANZA (PST-5MCMO)	21.7	61.7	5.2	5.7	5.7	63.2	79.5	97.0	87.7	72.9	46.2	78.4	68.0

TABLE 26.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMES, IA 1/  
2018-23 DATA

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

NAME	PERCENT ESTABLISHMENT		COLOR RATINGS				PERCENT GROUND COVER APRIL-NOVEMBER						
	OCT	NOV	SEPT	OCT	NOV	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV
FAIRFIELD (SETF104)	33.3	70.0	6.0	5.3	5.5	70.0	80.5	94.0	82.3	77.3	51.1	78.3	67.2
FASTLANE (BY-TF-169)	25.0	66.7	5.8	5.5	4.7	80.0	88.6	96.3	92.2	79.6	53.2	82.0	71.0
GALACTIC (SESCR1)	31.7	63.3	5.5	5.8	4.8	69.1	84.0	95.0	88.8	80.0	52.1	79.8	64.8
JT 517	36.7	70.0	6.5	6.5	6.0	67.2	81.5	96.3	82.1	74.3	48.9	77.8	64.7
K18-WB1	35.0	75.0	5.5	5.3	5.3	79.2	88.3	97.7	88.7	80.9	53.0	81.7	70.3
KIZZLE (K18-ROE)	36.7	73.3	5.5	5.7	5.0	76.7	88.4	95.3	88.0	83.7	54.3	83.8	76.0
LIFEGUARD	38.3	75.0	5.0	5.3	5.0	78.4	87.9	96.0	86.2	80.2	54.1	80.8	67.7
NAI-ST5	31.7	68.3	6.2	6.0	5.3	67.7	82.0	96.0	84.5	75.8	49.8	80.3	62.8
PPG-TF 231	35.0	68.3	5.0	5.3	4.5	74.7	85.0	98.3	84.5	81.5	53.9	81.6	69.2
PPG-TF 312	33.3	73.3	5.3	5.5	4.3	80.6	89.9	97.0	91.2	82.2	55.8	85.4	71.5
PROVIDENCE (GO-RH20)	31.7	65.0	5.5	5.5	5.3	70.1	82.8	94.7	84.2	80.3	61.9	87.6	74.3
PST-5DZM	20.0	58.3	5.7	6.0	6.3	62.6	79.3	97.3	85.1	75.8	49.9	78.4	63.7
PST-5MINK	20.0	66.7	6.3	6.3	6.3	67.2	81.2	94.3	82.4	78.0	54.1	81.8	64.0
PST-5TRN	25.0	63.3	5.5	5.2	5.3	60.7	82.8	97.0	86.6	78.9	55.1	83.3	73.7
RAPTOR III	26.7	60.0	5.8	5.2	5.3	74.3	82.2	97.0	83.3	75.2	54.7	78.3	65.8
SOUTHSIDE (PPG-TF 267)	25.0	65.0	5.7	5.7	4.2	71.6	83.1	97.3	88.0	78.7	52.2	79.6	63.5
SYMPHONY (PPG-TF 305)	33.3	73.3	6.2	5.7	6.2	71.1	88.6	96.7	90.6	79.3	56.7	84.2	67.2
TANGO	36.7	68.3	5.7	6.0	6.2	69.1	81.0	95.3	84.9	73.0	46.1	80.5	59.5
TEACHER (PPG-TF 313)	31.7	71.7	5.0	5.7	3.8	79.0	89.2	98.3	90.8	81.9	55.7	83.1	70.8
TITAN MAX (TF456)	25.0	63.3	5.2	5.2	5.0	74.6	82.4	97.0	85.2	85.8	61.1	88.5	78.3
TOUGH (NAI-TUE)	26.7	61.7	6.2	6.0	5.5	70.2	79.8	97.7	86.0	78.8	52.6	80.3	66.5
TYCOON (COL-TF-148)	25.0	66.7	5.8	5.2	5.7	72.8	84.4	94.7	89.5	78.8	49.9	80.7	71.0
BAR-FA8230	25.0	61.7	5.7	5.5	4.8	74.0	79.6	97.3	81.8	76.0	58.8	82.2	68.0
BARNOBLE (BAR 9FE MAS)	36.7	80.0	6.0	6.5	6.2	71.6	82.0	93.0	81.4	68.1	48.7	75.9	62.7
BATTLE HAWK (NAI-ROS4)	30.0	66.7	5.5	5.5	4.8	68.7	81.2	97.7	83.5	77.0	54.1	79.2	65.0
BENTLEY (DLFPS-321/3679)	26.7	61.7	6.3	5.8	6.2	76.3	82.5	98.0	83.3	75.0	50.9	79.5	62.8
COPIOUS TF	36.7	68.3	6.2	5.8	5.2	65.9	83.1	97.3	85.3	78.8	56.8	85.8	66.3
DEGAS (LTP-TF-111)	28.3	56.7	5.3	5.2	4.7	73.6	86.8	97.3	90.7	79.5	52.0	81.5	72.2
FINELAWN SUPREME (RH3)	45.0	75.0	5.5	5.0	4.3	78.8	87.3	97.7	89.8	80.1	51.7	86.4	74.7
FIRENZA II (PPG-TF 244)	36.7	80.0	6.0	5.5	4.5	81.4	88.0	97.7	90.8	78.9	53.2	84.5	69.2
GALLARDO (DLFPS-TF/3550)	30.0	68.3	5.8	6.5	6.2	71.6	88.5	96.7	86.6	72.8	46.9	75.3	68.3
HELLCAT GLR (PST-5E6)	25.0	66.7	5.2	5.2	4.7	69.6	79.8	96.3	85.4	75.3	51.3	79.8	67.7
K18-NSE	40.0	83.3	5.2	5.2	4.0	76.0	90.4	98.3	89.3	75.6	47.7	78.8	64.3
LAFAYETTE (GO-AOMK)	20.0	55.0	7.0	6.5	6.3	66.1	79.0	97.0	76.4	66.2	46.6	74.2	57.2
MONUMENT (PST-5SQB)	25.0	78.3	5.5	5.3	5.8	68.8	83.3	94.3	87.4	81.9	56.7	80.2	71.0
PPG-TF 337	21.7	60.0	5.3	5.5	4.7	70.7	81.8	98.3	88.2	80.3	49.2	80.6	60.2
PST-5GQ	18.3	63.3	5.7	5.7	5.8	71.6	82.7	97.3	85.3	76.0	52.6	82.2	69.2
RAD-TF105	31.7	65.0	5.7	5.7	6.0	72.7	81.0	95.0	82.6	74.0	55.4	78.4	62.0
RHL2	36.7	78.3	5.7	5.3	4.8	77.8	84.2	97.0	91.1	75.9	48.8	78.0	68.7
NAI-FQZ-17	30.0	66.7	7.2	7.0	6.8	65.6	80.8	92.3	78.3	68.8	49.7	78.7	70.3
RDC	36.7	78.3	4.5	4.8	4.2	74.9	90.4	96.0	87.6	78.9	52.7	79.9	68.7
KENTUCKY-31	45.0	78.3	4.5	5.5	5.7	75.3	86.9	95.0	85.3	72.5	49.6	79.7	57.5
LSD VALUE	15.4	33.6	4.8	1.1	1.2	84.7	64.6	8.8	9.5	95.2	222.4	86.8	168.0
C.V. (%)	24.4	14.8	24.1	13.7	19.2	24.2	17.7	2.4	10.9	24.7	59.8	20.6	32.1

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 27.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2020-2023 DATA

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

NAME	PERCENT ESTABLISHMENT	WEAR TOLERANCE				QUALITY RATINGS									MEAN
		MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
DRAGSTER	46.7	5.7	5.6	5.7	6.0	6.4	6.4	6.3	6.2	6.5	6.4	5.8	5.0	6.2	
BENTLEY (DLFPS-321/3679)	60.0	4.9	5.3	4.7	6.3	6.4	6.4	6.2	6.0	6.1	6.2	5.6	5.0	6.1	
ROVER (PPG-TF 306)	56.7	5.2	5.3	5.6	6.1	6.2	6.2	6.3	6.1	6.5	6.2	5.7	5.7	6.1	
SPYDER 2LS (ZRC1)	56.7	5.8	5.8	5.9	6.1	6.1	5.8	6.0	6.2	6.4	6.4	5.9	5.3	6.1	
TRIAD (PPG-TF 323)	50.0	5.5	5.3	5.4	6.2	6.3	6.2	6.1	6.2	6.6	5.9	5.4	5.0	6.1	
BONFIRE (JS DTT)	60.0	5.0	4.9	5.1	6.1	6.1	6.0	6.0	6.0	6.3	6.5	5.4	5.0	6.0	
CLASH (AH1)	56.7	6.3	6.3	6.4	5.8	5.8	5.9	5.9	6.3	6.1	6.3	5.8	5.3	6.0	
DEGAS (LTP-TF-111)	63.3	5.5	5.5	5.3	5.8	6.2	5.8	6.2	6.0	6.4	5.9	5.8	5.3	6.0	
FIERCE (K18-RS6)	53.3	5.7	5.4	5.3	6.3	6.1	5.8	6.4	6.3	6.2	6.3	5.2	4.7	6.0	
GEM (PPG-TF 316)	63.3	5.5	5.6	5.6	5.9	6.3	6.1	5.8	6.2	6.3	6.3	5.4	5.3	6.0	
PARAMOUNT	46.7	5.3	5.4	5.7	6.1	6.2	6.2	6.0	5.8	6.1	5.9	5.7	5.0	6.0	
PRO GOLD	60.0	5.4	5.6	5.4	6.1	6.3	5.8	6.3	6.3	6.1	6.2	5.1	4.7	6.0	
RC4	56.7	5.2	5.3	5.7	6.0	6.2	5.9	6.2	6.2	6.3	6.2	5.5	5.0	6.0	
RHL2	60.0	5.9	5.6	5.3	5.7	6.0	5.8	6.0	6.2	6.3	6.3	5.7	5.0	6.0	
SR 8700 (TMT1)	70.0	6.0	5.9	5.8	6.0	6.3	6.1	6.0	6.0	6.3	5.8	5.8	5.7	6.0	
BATTLE HAWK (NAI-ROS4)	46.7	5.4	5.5	5.7	5.7	5.9	6.0	5.9	6.1	5.9	6.3	5.5	5.0	5.9	
DAYBREAK (AH2)	50.0	5.5	5.8	5.8	6.2	5.8	5.8	5.8	6.1	6.1	6.0	5.8	5.0	5.9	
ESSENTIAL 2 (DLFPS-TF/3552)	50.0	5.4	5.1	5.3	6.0	5.9	5.9	5.8	5.8	6.2	6.2	5.8	5.0	5.9	
FALCON SUPREME (RH1)	60.0	5.1	5.3	5.3	6.1	6.0	5.6	5.9	5.8	5.9	6.0	5.9	4.7	5.9	
FINELAWN SUPREME (RH3)	70.0	5.6	6.0	5.5	6.0	6.0	5.8	5.9	6.2	6.1	6.1	5.7	5.3	5.9	
NT-3	60.0	5.8	5.4	5.3	5.8	6.1	5.9	5.7	6.0	6.1	5.9	5.6	5.7	5.9	
PPG-TF 231	50.0	5.5	5.8	5.7	5.8	5.8	5.8	5.9	6.3	5.9	6.3	5.3	5.3	5.9	
PPG-TF 318	60.0	5.7	5.7	5.5	6.4	5.9	5.8	5.8	5.8	6.1	5.5	5.8	5.0	5.9	
PROVIDENCE (GO-RH20)	63.3	5.6	5.3	5.7	5.6	6.1	5.9	6.1	6.2	6.2	5.9	5.3	5.7	5.9	
STEALTH (PPG-TF 238)	53.3	5.3	5.3	5.3	6.1	6.0	5.8	5.7	5.8	6.0	6.1	5.6	5.7	5.9	
TALLADEGA II (NAI-3N2)	53.3	5.6	5.8	5.8	6.2	6.0	5.5	5.8	5.8	6.2	6.2	5.5	5.0	5.9	
5LSS	53.3	5.3	5.4	4.8	5.6	5.7	5.7	6.1	6.2	6.1	6.1	5.4	5.3	5.8	
BULLSEYE LTZ	56.7	5.5	5.3	5.3	5.9	5.9	6.2	5.8	5.9	5.8	5.6	5.4	5.3	5.8	
DLFPS-321/3703	63.3	5.2	4.8	5.0	5.7	5.7	5.8	5.8	5.8	6.0	5.9	5.6	5.3	5.8	
ESTRENA	60.0	5.3	5.0	5.0	5.6	6.1	5.8	5.6	6.0	5.9	6.1	5.4	5.0	5.8	
EXPANSE (PPG-TF 262)	60.0	5.2	4.9	5.3	5.8	5.8	5.6	5.5	6.3	6.1	6.0	5.5	5.3	5.8	
GALACTIC (SESCR1)	56.7	5.9	5.8	5.6	6.0	5.6	5.5	5.6	5.9	6.2	6.1	5.5	6.0	5.8	
JT 233	60.0	5.3	5.3	5.4	6.3	5.6	5.8	6.2	6.1	5.8	5.8	5.4	5.0	5.8	
OKEEFE (LTP-TF-122)	53.3	5.0	5.7	5.5	5.6	5.8	5.8	6.1	5.6	6.3	5.8	5.7	5.3	5.8	
RACEWAY (DLFPS-321/3696)	56.7	5.6	5.6	5.3	5.9	5.9	5.9	5.9	5.9	6.0	6.0	5.1	5.3	5.8	
RAPTOR LS (PPG-TF 336)	63.3	5.9	5.8	5.9	5.4	5.8	5.8	5.8	6.0	6.4	5.9	5.4	5.7	5.8	
RDC	63.3	5.2	5.2	4.9	5.8	5.8	5.9	5.8	5.9	5.8	5.9	5.8	5.3	5.8	
ROWDIER (DLFPS-321/3699)	56.7	5.3	5.3	5.0	5.7	5.9	5.7	5.8	6.0	5.9	6.1	5.4	5.3	5.8	
SYMPHONY (PPG-TF 305)	60.0	4.9	4.9	5.2	5.6	5.8	5.9	5.8	6.0	5.8	5.9	5.7	5.0	5.8	
TANK (PPG-TF 338)	50.0	5.2	5.5	5.3	5.7	5.7	5.8	5.8	6.1	6.3	5.8	5.4	5.3	5.8	
XANADU (JT 268 )	53.3	5.5	5.5	5.7	5.7	6.1	5.9	5.8	5.7	5.8	5.7	5.7	5.3	5.8	
DLFPS-TF/3553	56.7	5.3	5.4	5.5	5.7	5.7	5.6	5.7	5.9	5.9	6.1	5.3	5.7	5.7	
DYNAMITE G-LS (PPG-TF 254)	50.0	5.3	5.3	5.3	6.1	6.0	5.7	5.6	5.9	5.6	5.6	5.3	5.3	5.7	
GLX REVIVE (PST-5GLBS)	50.0	5.0	5.1	4.9	5.9	5.6	5.7	5.6	5.7	5.9	5.9	5.6	4.7	5.7	
HEMI	56.7	5.2	5.2	5.6	5.9	5.6	5.7	6.1	5.7	5.8	5.8	5.3	5.0	5.7	

TABLE 27.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2020-2023 DATA

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

NAME	PERCENT ESTABLISHMENT	WEAR TOLERANCE			QUALITY RATINGS									MEAN
		MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPG-TF 249	53.3	5.4	5.5	5.3	6.0	6.1	5.8	5.8	5.7	5.8	5.8	5.3	4.7	5.7
RAD-TF105	60.0	4.8	5.3	5.5	5.3	5.7	5.8	5.9	5.8	5.9	5.9	5.2	5.0	5.7
RS1	60.0	5.8	6.1	5.9	5.6	6.0	6.0	5.7	5.4	6.0	5.5	5.3	5.3	5.7
SOUTHSIDE (PPG-TF 267)	53.3	5.8	5.5	5.2	5.4	6.1	5.6	5.8	6.2	5.5	5.8	5.3	5.7	5.7
AVENGER III (PPG-TF 308)	56.7	5.5	5.3	5.6	5.4	5.8	5.4	5.5	5.5	5.9	5.8	5.3	5.3	5.6
BLADERUNNER 3 (DLFPS-321/3701)	53.3	5.5	5.5	5.4	5.3	5.5	5.4	5.4	5.8	5.9	5.8	5.4	5.0	5.6
CAPITAN (DLFPS-321/3705)	46.7	5.4	5.7	5.6	5.4	5.8	5.8	6.0	5.5	5.7	5.6	5.2	5.3	5.6
DLFPS-321/3694	46.7	5.3	5.7	5.3	5.7	5.7	5.4	5.5	5.8	6.1	5.8	5.3	5.0	5.6
DLFPS-321/3707	50.0	5.1	5.0	5.3	5.9	5.5	5.4	5.7	5.6	5.6	5.8	5.5	5.0	5.6
FIRECRACKER G-LS (PPG-TF 315)	56.7	5.3	5.2	5.4	5.4	5.8	5.8	5.7	5.6	5.8	5.8	5.2	5.0	5.6
FIRENZA II (PPG-TF 244)	73.3	5.6	5.7	5.6	5.6	5.3	5.5	5.5	6.0	5.9	5.5	5.4	5.0	5.6
GRANDE 3	53.3	5.1	5.2	5.1	5.2	5.5	5.4	5.6	5.7	5.5	5.9	5.7	5.3	5.6
HOUNDOG NINE (DLFPS-321/3702)	53.3	5.7	5.4	5.3	5.4	5.8	5.8	5.6	5.6	5.6	5.9	5.3	5.0	5.6
K18-NSE	60.0	5.8	5.6	5.4	5.1	5.3	5.4	5.3	5.8	5.9	6.2	5.5	5.3	5.6
K18-WB1	53.3	6.1	5.8	5.5	5.4	5.6	5.5	5.4	5.6	5.8	5.7	5.6	4.7	5.6
LIFEGUARD	50.0	5.7	5.7	5.5	5.9	5.7	5.5	5.8	5.6	6.0	5.9	5.1	4.3	5.6
PPG-TF 337	60.0	5.0	5.3	5.0	5.8	5.8	5.6	5.5	5.6	5.8	5.8	5.5	5.0	5.6
SERENADE (PPG-TF 320)	56.7	4.9	5.3	5.1	5.4	5.7	5.6	5.5	5.7	5.6	5.5	5.6	5.0	5.6
TD2	53.3	5.2	5.7	5.7	5.7	5.8	5.6	5.3	5.6	5.5	5.6	5.6	5.3	5.6
TITAN MAX (TF456)	53.3	4.8	4.8	5.1	5.6	5.5	5.4	5.8	5.8	6.1	5.9	5.1	4.7	5.6
TYCOON (COL-TF-148)	50.0	5.6	5.7	5.6	5.8	5.6	5.8	5.8	5.8	5.8	5.7	5.1	5.0	5.6
ZION (BAR TF 134)	50.0	5.4	5.2	5.2	5.7	5.7	5.5	5.6	5.6	6.0	5.8	5.3	5.0	5.6
3B2	36.7	4.8	4.8	4.4	5.3	5.5	5.8	5.4	5.5	5.8	5.8	5.3	5.0	5.5
ATF1768	60.0	5.4	5.4	4.9	5.6	5.6	5.3	5.6	5.7	5.6	5.7	5.3	4.7	5.5
NATURALLY GREEN	56.7	5.4	5.3	5.0	5.3	5.6	5.6	5.2	5.7	5.6	5.6	5.4	4.7	5.5
ORIOLE (PST-5BYOB)	60.0	5.8	5.8	5.4	5.7	5.6	5.3	5.4	5.5	5.7	5.8	5.2	5.0	5.5
TITAN GLX (TF445)	63.3	5.4	4.9	4.9	5.6	5.6	5.4	5.4	5.6	5.5	5.8	5.1	5.3	5.5
TITANIUM G-LS (PPG-TF 255)	53.3	5.3	5.1	5.3	5.4	5.4	5.5	5.4	5.5	5.8	5.6	5.5	5.0	5.5
VALSETZ (PPG-TF 257)	46.7	5.1	5.0	5.3	5.6	5.4	5.8	5.5	5.4	5.6	5.7	5.4	5.0	5.5
BULLSEYE	56.7	4.9	4.9	5.3	5.4	5.8	5.3	5.3	5.4	5.5	5.7	5.2	5.0	5.4
DLFPS-321/3693	56.7	5.0	5.2	5.2	5.3	5.3	5.5	4.9	5.7	5.7	5.8	5.2	4.3	5.4
DLFPS-321/3695	56.7	5.2	5.2	5.1	5.3	5.2	5.4	5.3	5.3	5.5	5.5	5.3	5.7	5.4
FAIRFIELD (SETF104)	60.0	4.9	5.0	4.9	5.6	5.5	5.3	5.4	5.6	5.4	5.6	5.0	4.7	5.4
FASTLANE (BY-TF-169)	56.7	5.8	5.8	6.0	5.2	5.3	5.4	5.6	5.4	5.6	5.4	5.3	5.0	5.4
FIREHAWK SLT	46.7	5.3	5.5	5.7	5.3	5.5	5.3	5.3	5.4	5.8	5.8	5.2	5.0	5.4
GALLARDO (DLFPS-TF/3550)	56.7	5.3	5.3	5.3	5.1	5.4	5.4	5.4	5.3	5.8	5.6	5.6	5.0	5.4
GLX ACED (PST-5DART)	46.7	5.1	5.5	5.3	5.8	5.5	5.7	5.5	5.4	5.4	5.6	4.9	4.7	5.4
GRO-PRO (SE53D2)	50.0	5.5	5.5	5.4	5.6	5.3	5.2	5.4	5.4	5.8	5.7	4.9	5.0	5.4
NAI-ST5	56.7	5.1	5.3	5.3	5.3	5.5	5.3	5.3	5.5	5.7	5.6	5.3	5.3	5.4
PST-5GQ	40.0	4.9	4.8	4.8	5.7	5.7	5.5	5.7	5.5	5.4	5.4	4.8	4.3	5.4
RAPTOR III	40.0	5.6	5.3	5.7	5.4	4.8	5.7	5.6	5.5	5.7	5.7	5.1	5.0	5.4
RHF	60.0	5.1	4.9	5.1	5.2	5.4	5.4	5.3	5.8	5.5	5.4	5.0	4.7	5.4
SE5STAR	43.3	5.5	5.5	5.6	5.4	5.4	5.3	5.5	5.4	5.8	5.5	4.8	4.7	5.4
SETFM3	56.7	5.3	5.4	5.1	5.0	5.4	5.2	5.3	5.3	5.9	5.3	5.5	4.7	5.4
TOUGH (NAI-TUE)	53.3	5.3	5.2	5.3	5.2	5.4	5.3	5.3	5.3	5.6	5.5	5.3	5.3	5.4

TABLE 27.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2020-2023 DATA

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

NAME	PERCENT ESTABLISHMENT	WEAR TOLERANCE			QUALITY RATINGS									
		MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BIRMINGHAM	50.0	5.0	5.0	5.1	5.3	5.3	5.2	5.4	5.3	5.5	5.4	5.3	5.0	5.3
COPIOUS TF	53.3	5.3	5.3	5.1	5.1	5.3	5.4	5.3	5.3	5.6	5.3	5.4	5.0	5.3
DLFPS-321/3706	43.3	5.2	4.9	4.9	5.0	5.1	5.1	5.2	5.3	5.8	5.3	5.3	5.3	5.3
ENDGAME (3N1)	40.0	5.9	5.6	5.7	4.9	5.6	5.1	5.1	5.3	5.5	5.8	5.2	5.0	5.3
FAYETTE	63.3	5.7	5.4	5.4	5.1	5.3	5.2	5.4	5.4	5.4	5.5	5.3	5.0	5.3
JT 517	46.7	5.1	5.3	5.2	4.9	5.3	5.3	5.3	5.4	5.3	5.3	5.3	5.0	5.3
KIZZLE (K18-ROE)	53.3	4.9	5.3	5.0	5.2	4.9	5.5	5.3	5.4	5.5	5.2	5.5	5.0	5.3
PADRE 2	43.3	5.5	5.7	5.4	5.3	5.4	5.3	5.3	5.2	5.3	5.4	5.2	5.0	5.3
PST-5DZM	53.3	5.3	5.0	5.2	5.3	5.6	5.3	5.3	5.7	5.4	5.3	4.8	4.7	5.3
PST-5MINK	46.7	4.9	4.8	5.0	6.1	5.3	5.4	5.5	5.5	5.5	5.3	4.5	4.0	5.3
TEACHER (PPG-TF 313)	46.7	5.3	5.4	5.3	5.8	5.0	5.1	5.2	5.3	5.8	5.5	5.3	4.7	5.3
TOPSHELF (BGR-TF3)	53.3	5.8	5.8	5.6	5.1	5.5	5.3	5.3	5.3	5.7	5.3	5.3	5.0	5.3
A-TF31	50.0	5.2	5.3	5.1	5.0	5.5	5.0	5.3	5.0	5.3	5.6	5.2	4.7	5.2
BANDIT	50.0	6.1	6.0	6.0	4.9	5.2	5.2	5.1	5.3	5.6	5.4	5.3	4.7	5.2
DLFPS-321/3708	56.7	4.9	5.0	4.9	5.0	5.3	5.4	5.3	5.0	5.1	5.2	5.5	5.0	5.2
ESCALADE	56.7	5.5	5.2	5.2	5.6	5.0	5.3	5.5	5.1	5.3	5.3	4.9	4.3	5.2
EXTRAVAGANZA (PST-5MCMO)	53.3	5.4	5.1	4.9	5.3	5.2	5.3	5.3	5.2	5.3	5.2	4.8	4.7	5.2
MONUMENT (PST-5SQB)	50.0	5.5	5.6	5.3	5.3	5.3	5.2	5.1	5.3	5.4	5.4	4.8	4.7	5.2
PPG-TF 312	60.0	5.0	4.8	4.8	5.3	4.9	5.3	5.0	5.3	5.5	5.4	4.8	5.0	5.2
PST-5DC24	50.0	5.3	5.1	5.0	5.0	5.2	4.9	5.4	5.2	5.2	5.3	5.2	5.0	5.2
SETFM2	56.7	5.4	5.5	5.4	5.0	5.3	5.2	5.2	5.3	5.5	5.1	5.2	5.3	5.2
BRAVO 2	50.0	5.3	5.2	4.8	4.8	5.0	5.0	5.1	5.1	5.0	5.3	5.2	5.3	5.1
GRAND PRIX (FC15-01P)	53.3	5.9	5.4	5.3	5.2	5.0	5.1	5.1	5.1	5.2	5.1	4.9	4.7	5.1
HELLCAT GLR (PST-5E6)	40.0	4.9	5.2	5.1	5.2	5.6	5.3	5.1	5.3	5.2	5.3	4.5	4.0	5.1
LBF	56.7	5.3	5.3	5.4	5.0	5.3	4.8	5.2	5.0	5.3	4.9	5.1	4.7	5.1
MOONDANCE GLX	50.0	5.0	4.7	4.7	5.4	5.3	5.4	5.2	5.2	4.9	5.2	4.8	4.3	5.1
RAD-TF 115 (TURBO SS)	46.7	5.5	5.3	5.5	4.7	5.2	5.2	5.1	5.1	5.3	5.1	4.9	4.7	5.1
RAD-TF131	50.0	4.8	4.9	5.0	4.8	5.3	5.3	5.2	5.4	5.3	5.3	4.7	4.3	5.1
AST8118LM	40.0	5.7	5.3	5.1	5.0	5.4	4.9	5.1	4.8	5.1	5.0	5.0	5.0	5.0
LAFAYETTE (GO-AOMK)	40.0	5.0	5.3	5.3	4.6	5.1	5.0	5.0	5.1	5.0	5.2	4.9	5.0	5.0
TANGO	43.3	4.8	4.6	4.6	5.2	5.2	4.9	4.7	5.2	5.3	5.1	4.8	5.0	5.0
TAR HEEL III (PST-5THM)	46.7	5.1	5.2	4.8	5.0	5.1	5.2	5.0	5.2	5.3	5.0	4.8	4.3	5.0
ATF2116	43.3	5.3	4.9	4.8	4.9	5.0	5.3	4.8	5.0	5.1	4.8	4.7	5.0	4.9
BAR-FA8230	53.3	5.4	5.5	5.1	4.9	5.0	5.2	4.9	5.0	5.3	5.1	4.4	4.3	4.9
NAI-FQZ-17	60.0	5.3	5.0	5.1	4.7	4.8	4.8	5.0	5.0	5.2	4.9	4.8	5.0	4.9
PST-5TRN	46.7	5.4	5.6	5.4	4.7	4.8	4.8	4.9	4.8	5.2	4.9	4.8	5.0	4.9
AST8218LM	50.0	5.3	5.3	4.5	4.8	5.0	4.8	4.8	4.8	4.9	4.9	4.7	4.3	4.8
PALOMAR	40.0	4.8	4.8	4.4	4.8	5.0	4.8	4.6	4.7	4.7	4.7	4.3	5.0	4.7
BAR FA 8228	46.7	4.8	4.9	4.6	4.8	4.5	4.6	4.4	4.6	4.6	4.8	4.5	4.7	4.6
OG-WALK	50.0	5.1	5.1	4.6	4.6	4.6	4.9	4.3	4.8	4.6	4.7	4.3	5.0	4.6
BARNOBLE (BAR 9FE MAS)	40.0	4.8	4.3	4.3	4.2	4.3	4.5	4.3	4.2	4.3	4.5	4.2	4.3	4.3
KENTUCKY-31	63.3	3.5	3.2	3.0	2.8	2.7	3.2	2.8	3.3	2.8	2.8	2.8	3.7	2.9
LSD VALUE	14.4	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.8	0.3
C.V. (%)	14.4	13.0	12.4	12.9	11.5	12.4	10.7	11.1	9.8	11.0	9.6	9.8	8.6	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 28A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
 2019 DATA  
 TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	BEFORE TRAFFIC ON AUGUST 28				AFTER TRAFFIC OCTOBER 4 2019					
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		PERCENT GREEN COVER (OCTOBER)		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DEGAS (LTP-TF-111)	8.7	8.7	93.0	96.0	9.0	7.3	88.3	92.7	97.7	75.0
TD2	9.0	9.0	99.0	96.0	9.0	7.3	88.7	92.0	99.0	75.0
XANADU (JT 268)	9.0	9.0	97.7	97.7	9.0	7.0	88.3	89.3	99.0	73.3
OKEEFE (LTP-TF-122)	9.0	9.0	99.0	97.7	9.0	7.3	87.0	89.3	99.0	73.3
FINELAWN SUPREME (RH3)	8.7	9.0	94.3	94.3	9.0	7.3	90.0	92.7	97.7	73.3
DRAGSTER	9.0	9.0	96.0	96.0	9.0	7.3	89.0	90.0	96.3	71.7
FIERCE (K18-RS6)	9.0	9.0	99.0	99.0	9.0	7.3	88.3	90.7	99.0	71.7
SOUTHSIDE (PPG-TF 267)	9.0	9.0	96.3	96.3	9.0	7.3	92.0	90.0	97.7	71.7
GLX ACED (PST-5DART)	8.0	8.0	93.0	94.7	9.0	7.7	90.0	93.3	93.3	70.0
KIZZLE (K18-ROE)	8.7	8.3	94.7	96.3	8.7	7.3	87.7	90.0	95.0	70.0
BATTLE HAWK (NAI-ROS4)	9.0	9.0	97.7	96.3	9.0	7.0	89.7	90.3	97.7	70.0
ROVER (PPG-TF 306)	9.0	9.0	94.7	96.3	9.0	6.7	90.3	89.7	96.3	70.0
PPG-TF 312	9.0	8.3	99.0	97.7	9.0	6.7	91.0	91.7	99.0	70.0
PST-5TRN	7.3	7.3	90.0	93.0	8.7	6.7	91.3	91.7	91.7	70.0
TITAN MAX (TF456)	9.0	9.0	97.7	97.7	9.0	6.7	87.0	89.7	97.7	70.0
SPYDER 2LS (ZRC1)	9.0	9.0	99.0	99.0	9.0	7.0	90.7	90.7	99.0	70.0
3B2	8.3	8.7	86.7	90.0	9.0	6.7	88.3	89.7	95.0	68.3
ENDGAME (3N1)	8.7	8.7	93.3	96.3	9.0	6.7	91.3	89.3	97.7	68.3
FASTLANE (BY-TF-169)	9.0	8.7	99.0	96.0	9.0	6.3	84.7	88.0	99.0	68.3
RACEWAY (DLFPS-321/3696)	8.7	9.0	93.3	97.7	9.0	6.3	87.7	91.0	96.3	68.3
HOUNDOG NINE (DLFPS-321/3702)	8.7	8.7	93.3	95.0	9.0	6.3	83.0	90.7	96.3	68.3
K18-WB1	8.7	8.7	94.7	93.0	9.0	7.0	88.0	90.7	97.7	68.3
ROWDIER (DLFPS-321/3699)	9.0	9.0	96.0	97.7	8.7	6.3	87.0	90.3	95.0	66.7
BLADERUNNER 3 (DLFPS-321/3701)	8.7	8.7	94.7	93.0	9.0	6.3	90.3	85.0	99.0	66.7
GRANDE 3	8.7	8.7	91.7	91.7	9.0	6.7	90.0	90.0	94.7	66.7
MOONDANCE GLX	8.3	8.3	93.0	91.3	9.0	6.7	88.0	92.7	93.3	66.7
VALSETZ (PPG-TF 257)	9.0	9.0	93.3	91.7	9.0	6.7	91.0	86.3	96.3	66.7
TEACHER (PPG-TF 313)	8.7	8.7	96.0	97.7	9.0	7.0	88.0	88.3	97.7	66.7
PPG-TF 318	9.0	9.0	97.7	99.0	9.0	6.7	87.0	88.3	97.7	66.7
RAPTOR LS (PPG-TF 336)	9.0	9.0	99.0	99.0	9.0	6.7	90.7	89.3	97.7	66.7
PPG-TF 337	8.7	8.7	96.3	93.3	9.0	6.3	90.7	87.7	97.7	66.7
RAPTOR III	8.7	9.0	94.3	97.7	9.0	6.3	87.0	90.0	95.0	66.7
DAYBREAK (AH2)	8.7	8.7	97.7	92.7	9.0	6.3	90.0	85.0	96.3	65.0
ZION (BAR TF 134)	9.0	8.7	96.3	92.7	9.0	6.3	89.7	84.7	96.3	65.0
DLFPS-321/3693	9.0	9.0	94.7	99.0	9.0	6.0	88.0	86.0	97.7	65.0
DLFPS-321/3703	9.0	9.0	94.7	94.7	8.3	5.7	89.0	87.7	96.3	65.0
DLFPS-321/3707	8.7	8.7	94.3	94.3	9.0	6.7	89.3	87.3	99.0	65.0
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	9.0	97.7	99.0	9.0	6.7	87.7	86.7	96.3	65.0
PROVIDENCE (GO-RH20)	8.7	8.7	91.3	94.3	9.0	6.7	90.3	90.3	97.7	65.0
JT 233	9.0	9.0	94.7	96.3	9.0	6.7	91.0	87.0	97.7	65.0
TALLADEGA II (NAI-3N2)	9.0	9.0	97.7	99.0	8.7	6.7	89.7	88.7	94.7	65.0
PPG-TF 231	9.0	9.0	97.7	99.0	9.0	6.7	91.3	87.7	99.0	65.0
FIRENZA II (PPG-TF 244)	8.7	8.3	96.0	93.0	9.0	6.7	89.7	86.3	94.7	65.0
EXPANSE (PPG-TF 262)	9.0	9.0	97.7	96.0	9.0	6.0	90.0	81.3	97.7	65.0
ORIOLE (PST-5BYOB)	8.3	8.3	93.0	94.3	8.7	6.7	92.0	90.7	93.3	65.0

TABLE 28A.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2019 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	BEFORE TRAFFIC ON AUGUST 28				AFTER TRAFFIC OCTOBER 4 2019					
	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		PERCENT GREEN COVER (OCTOBER)		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
RHL2	8.7	9.0	97.7	96.0	9.0	6.0	90.3	88.7	97.7	65.0
CLASH (AH1)	9.0	9.0	94.3	97.7	9.0	6.0	89.3	86.0	97.7	63.3
DLFPS-TF/3553	9.0	9.0	93.3	94.7	9.0	6.0	91.0	85.0	95.0	63.3
BONFIRE (JS DTT)	8.7	8.7	96.3	93.0	9.0	6.7	88.0	86.3	96.3	63.3
PARAMOUNT	9.0	9.0	96.3	96.3	9.0	6.3	89.3	89.0	95.0	63.3
STEALTH (PPG-TF 238)	9.0	9.0	96.0	97.7	9.0	6.0	91.7	86.0	96.3	63.3
MONUMENT (PST-5SQB)	8.0	8.3	89.7	94.7	8.7	6.7	90.0	90.7	94.7	63.3
RHF	9.0	9.0	97.7	96.0	9.0	5.7	90.7	81.0	96.0	63.3
SR 8700 (TMT1)	9.0	9.0	96.3	94.3	9.0	6.3	85.7	83.0	96.3	63.3
CAPITAN (DLFPS-321/3705)	8.3	8.7	93.0	94.7	9.0	5.7	89.7	88.3	94.7	61.7
ESTRENA	8.7	9.0	96.0	89.7	9.0	5.7	91.3	81.0	99.0	61.7
LAFAYETTE (GO-AOMK)	8.7	8.3	93.0	91.7	8.7	5.3	90.3	85.3	93.3	61.7
AVENGER III (PPG-TF 308)	9.0	9.0	96.3	99.0	9.0	6.3	88.7	87.0	96.3	61.7
TANK (PPG-TF 338)	9.0	9.0	99.0	96.0	9.0	5.7	88.0	87.3	99.0	61.7
GLX REVIVE (PST-5GLBS)	7.7	7.7	83.3	86.7	8.7	5.7	88.3	86.0	90.0	61.7
RC4	8.7	8.7	93.3	94.7	9.0	6.0	91.0	84.7	96.3	61.7
GALACTIC (SESCR1)	9.0	8.7	94.7	93.0	9.0	5.7	88.0	85.0	96.3	61.7
TOPSHELF (BGR-TF3)	7.7	7.7	81.7	83.3	8.3	6.0	89.7	87.7	90.0	60.0
BULLSEYE LTZ	8.7	8.7	93.3	93.0	9.0	5.3	89.7	87.3	96.3	60.0
DLFPS-321/3708	8.7	8.7	94.7	96.3	8.7	5.3	91.7	84.3	93.3	60.0
PADRE 2	8.7	9.0	93.3	95.0	9.0	5.7	90.3	87.3	96.3	60.0
PPG-TF 249	8.7	8.0	94.7	86.3	9.0	6.0	91.7	86.7	93.3	60.0
TITANIUM G-LS (PPG-TF 255)	9.0	9.0	93.3	93.3	9.0	5.7	89.0	90.0	96.3	60.0
FIRECRACKER G-LS (PPG-TF 315)	9.0	9.0	96.0	97.7	9.0	5.7	91.0	84.7	96.3	60.0
SERENADE (PPG-TF 320)	9.0	9.0	96.3	96.3	9.0	6.0	89.3	85.0	96.3	60.0
TRIAD (PPG-TF 323)	9.0	9.0	97.7	96.0	8.7	5.7	86.3	86.0	99.0	60.0
PRO GOLD	8.0	8.0	90.0	91.7	8.3	5.7	92.0	88.7	93.0	60.0
PST-5DC24	7.7	7.7	83.3	85.0	8.0	5.7	88.3	87.0	88.3	60.0
TAR HEEL III (PST-5THM)	7.3	7.3	85.0	88.3	8.0	6.0	91.0	90.3	90.0	60.0
FALCON SUPREME (RH1)	8.7	9.0	93.0	96.3	9.0	6.0	88.7	88.0	94.7	60.0
RS1	9.0	9.0	95.0	97.7	9.0	5.3	90.3	82.7	96.3	60.0
GRO-PRO (SE53D2)	8.0	8.0	91.7	93.3	8.7	5.7	90.3	85.7	93.0	60.0
5LSS	9.0	9.0	97.7	97.7	9.0	5.0	92.3	78.0	97.7	58.3
BENTLEY (DLFPS-321/3679)	8.0	8.0	90.0	91.7	9.0	5.7	90.7	80.7	93.3	58.3
FAYETTE	8.3	8.3	89.7	86.7	9.0	6.0	89.7	86.7	95.0	58.3
LIFEGUARD	8.3	8.3	86.7	88.0	8.7	5.0	92.3	86.7	91.7	58.3
DYNAMITE G-LS (PPG-TF 254)	8.7	8.7	93.0	94.7	9.0	5.7	91.0	83.3	93.3	58.3
EXTRAVAGANZA (PST-5MCMO)	8.3	8.0	91.7	86.7	8.7	5.7	92.3	84.0	91.7	58.3
RDC	9.0	9.0	96.3	94.7	9.0	5.7	91.3	85.0	97.7	58.3
FAIRFIELD (SETF104)	8.7	8.7	94.3	94.7	8.7	6.0	89.7	85.3	94.7	58.3
SETFM3	7.7	7.7	85.0	85.0	8.3	5.3	89.3	88.7	91.3	58.3
TITAN GLX (TF445)	9.0	9.0	93.0	91.7	9.0	5.3	89.3	84.0	96.0	58.3
BULLSEYE	8.3	8.3	86.7	83.3	8.7	5.0	91.7	84.7	91.7	56.7
HEMI	8.3	8.3	93.0	91.3	9.0	5.7	90.0	85.0	95.0	56.7
K18-NSE	8.3	8.7	91.0	94.3	9.0	5.7	88.7	78.7	97.7	56.7

TABLE 28A.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2019 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	BEFORE TRAFFIC ON AUGUST 28		AFTER TRAFFIC OCTOBER 4 2019		PERCENT GREEN		COVER OCTOBER		FULLNESS OF CANOPY	
	UNIFORMITY NO TRAFFIC	TRAFFIC	FULLNESS OF CANOPY NO TRAFFIC	TRAFFIC	UNIFORMITY NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SYMPHONY (PPG-TF 305)	9.0	8.7	96.3	91.7	8.3	5.0	88.7	84.7	97.7	56.7
PST-5GQ	7.3	7.3	88.3	88.3	8.7	5.0	91.3	87.3	91.7	56.7
AST8118LM	7.7	7.7	85.0	83.3	8.7	5.7	88.3	90.3	88.3	55.0
TYCOON (COL-TF-148)	8.7	9.0	96.3	96.3	9.0	5.0	89.3	78.3	99.0	55.0
DLFPS-321/3694	9.0	8.3	96.3	90.0	8.7	5.0	90.3	80.0	96.3	55.0
DLFPS-321/3706	8.3	8.7	90.0	90.0	9.0	5.7	90.3	82.0	97.7	55.0
A-TF31	8.3	8.3	88.3	86.7	8.7	5.0	91.0	88.0	85.0	53.3
AST8218LM	7.7	8.0	83.3	81.7	8.3	5.0	86.0	88.0	85.0	53.3
ATF1768	7.0	7.0	85.0	80.0	8.0	5.0	92.3	82.7	93.3	53.3
BRAVO 2	7.3	7.3	81.7	78.3	8.0	5.0	92.0	79.3	90.0	53.3
COPIOUS TF	7.3	7.3	83.3	85.0	8.3	5.3	91.3	87.0	91.7	53.3
DLFPS-321/3695	8.7	8.3	91.7	93.3	9.0	5.3	86.3	83.7	94.7	53.3
GALLARDO (DLFPS-TF/3550)	8.7	9.0	91.3	90.0	8.7	4.7	90.7	76.7	91.3	53.3
NAI-ST5	8.0	8.0	90.0	88.3	8.7	5.0	90.3	76.7	96.3	53.3
NT-3	8.7	8.7	93.3	93.3	9.0	5.0	90.7	78.3	93.3	53.3
GEM (PPG-TF 316)	8.7	8.7	93.0	86.7	9.0	5.0	91.0	83.0	96.3	53.3
PST-5MINK	7.0	8.0	76.7	83.3	8.3	5.0	91.7	85.3	86.7	53.3
RAD-TF131	8.3	7.7	90.0	80.0	9.0	5.0	88.3	84.3	90.0	53.3
SETFM2	8.0	7.3	85.0	80.0	8.3	5.0	90.3	87.0	90.0	53.3
TANGO	7.7	7.7	81.7	83.3	8.7	5.0	90.7	80.7	90.0	53.3
ATF2116	6.7	6.7	81.7	83.3	8.3	4.7	88.0	80.0	90.0	51.7
BANDIT	7.3	7.3	88.3	86.7	8.0	5.3	90.3	89.7	86.7	51.7
BARNOBLE (BAR 9FE MAS)	6.7	6.7	80.0	81.7	8.0	4.7	91.0	85.7	83.3	51.7
BAR-FA8230	7.0	7.0	85.0	81.7	8.7	5.0	92.3	84.7	88.3	51.7
FIREHAWK SLT	9.0	9.0	94.7	91.3	8.3	4.3	90.7	82.3	94.7	51.7
GRAND PRIX (FC15-01P)	7.7	7.7	85.0	86.7	8.3	5.3	92.0	87.0	88.3	51.7
JT 517	7.3	7.3	83.3	81.7	8.3	5.3	88.7	89.7	88.3	51.7
PST-5DZM	8.3	8.3	89.7	93.0	8.7	4.3	90.0	80.7	91.3	51.7
SE5STAR	8.0	8.3	88.3	88.3	8.3	4.7	91.3	86.7	90.0	51.7
BIRMINGHAM	8.0	8.0	88.3	88.3	8.3	4.3	92.3	83.0	93.0	50.0
LBF	7.3	7.7	80.0	81.7	8.7	4.3	89.3	85.7	88.3	50.0
TOUGH (NAI-TUE)	8.7	8.3	88.3	91.7	8.7	4.7	90.7	77.3	91.7	50.0
PALOMAR	6.7	6.7	73.3	73.3	8.0	4.3	92.3	87.0	83.3	50.0
HELLCAT GLR (PST-5E6)	8.0	8.0	88.3	88.0	8.7	4.7	93.3	85.7	88.3	50.0
RAD-TF105	8.3	8.3	91.7	93.3	8.7	4.7	90.3	83.0	90.0	50.0
NAI-FQZ-17	7.7	7.7	85.0	86.7	8.0	4.7	91.3	78.7	88.3	48.3
ESCALADE	7.3	7.3	83.3	83.3	8.0	4.7	90.3	83.3	88.3	46.7
NATURALLY GREEN	7.0	7.0	73.3	75.0	7.7	4.0	91.3	81.0	85.0	46.7
BAR FA 8228	6.0	6.7	68.3	71.7	7.3	4.0	93.3	82.0	80.0	43.3
OG-WALK	6.7	6.7	78.3	75.0	7.3	3.3	91.0	85.7	80.0	43.3
RAD-TF 115 (TURBO SS)	8.0	7.7	88.3	86.7	8.0	3.3	88.3	74.0	81.7	40.0
KENTUCKY-31	5.3	5.3	65.0	65.0	6.7	2.3	96.7	79.3	68.3	28.3
LSD VALUE	0.9	0.9	8.6	8.8	0.6	1.6	5.2	16.3	4.9	13.2
C.V. (%)	6.7	6.5	5.8	6.0	4.2	16.1	2.7	6.7	3.4	12.8

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

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

TABLE 28B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2020 DATA

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

NAME	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		PERCENT GREEN COVER		FULLNESS OF CANOPY		ANNUAL BLUEGRASS COVER	
	JULY 6, 2020		JULY 6, 2020		AUGUST 25, 2020		AUGUST 26, 2020		AUGUST 28, 2020		OCTOBER 28, 2020	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
GLX ACED (PST-5DART)	9.0	8.0	99.0	88.3	9.0	7.0	86.7	64.3	94.7	66.7	5.0	15.0
DEGAS (LTP-TF-111)	9.0	7.3	99.0	78.3	9.0	6.3	85.0	61.7	97.7	65.0	5.0	33.3
FINELAWN SUPREME (RH3)	9.0	8.7	99.0	94.7	9.0	6.3	83.0	61.3	97.7	65.0	5.0	15.0
ROVER (PPG-TF 306)	9.0	7.7	97.7	80.0	9.0	5.7	82.7	57.0	99.0	61.7	5.0	20.0
TITAN MAX (TF456)	9.0	7.7	97.7	81.3	9.0	5.3	83.7	58.3	97.7	61.7	10.0	28.3
ROWDIER (DLFPS-321/3699)	9.0	8.0	97.7	85.0	9.0	6.0	85.3	61.3	99.0	60.0	13.3	28.3
MOONDANCE GLX	9.0	8.3	96.3	88.3	9.0	5.7	83.0	61.3	97.7	60.0	11.7	35.0
PPG-TF 231	9.0	8.7	99.0	93.0	9.0	5.0	81.3	55.7	99.0	60.0	6.7	26.7
PPG-TF 318	9.0	9.0	97.7	93.3	9.0	5.0	84.0	63.0	99.0	60.0	11.7	25.0
PARAMOUNT	9.0	7.7	99.0	81.3	9.0	5.3	78.7	55.3	99.0	58.3	3.3	30.0
RACEWAY (DLFPS-321/3696)	9.0	8.3	97.7	88.3	9.0	5.7	86.0	56.0	96.3	56.7	8.3	20.0
GRANDE 3	8.7	6.3	94.3	70.0	9.0	5.3	83.0	53.0	97.7	56.7	15.0	30.0
FIERCE (K18-RS6)	9.0	8.3	99.0	88.0	9.0	5.7	82.3	62.7	99.0	56.7	3.3	16.7
TD2	9.0	7.7	99.0	81.7	9.0	5.7	83.0	60.7	99.0	56.7	5.0	23.3
PST-5DC24	8.7	7.0	94.7	75.0	8.7	4.7	84.7	61.3	94.7	55.0	15.0	23.3
AST8118LM	8.3	6.7	88.0	68.3	9.0	5.7	87.7	59.3	91.7	53.3	10.0	23.3
JT 233	9.0	8.3	99.0	88.0	9.0	5.7	81.7	45.7	99.0	53.3	5.0	23.3
SOUTHSIDE (PPG-TF 267)	9.0	8.0	99.0	81.7	9.0	4.3	84.7	51.0	99.0	53.3	1.7	11.7
TEACHER (PPG-TF 313)	9.0	7.3	99.0	80.0	9.0	6.0	85.7	56.7	97.7	53.3	11.7	30.0
GLX REVIVE (PST-5GLBS)	8.7	7.3	93.0	73.3	8.7	5.0	86.0	55.0	93.0	53.3	11.7	35.0
FIREHAWK SLT	9.0	6.0	97.7	63.3	9.0	4.3	84.7	57.7	99.0	51.7	16.7	38.3
OKEEFE (LTP-TF-122)	9.0	8.0	99.0	81.7	9.0	5.0	84.3	55.0	99.0	51.7	6.7	25.0
TITAN GLX (TF445)	9.0	5.7	99.0	60.0	9.0	5.0	83.7	57.0	99.0	51.7	10.0	25.0
3B2	9.0	8.0	97.7	85.0	9.0	5.0	84.3	51.0	97.7	50.0	10.0	28.3
ENDGAME (3N1)	9.0	9.0	99.0	94.7	9.0	4.3	85.3	55.0	96.3	50.0	3.3	20.0
DLFPS-321/3707	9.0	7.3	99.0	76.7	9.0	4.3	83.0	46.7	99.0	50.0	10.0	26.7
HEMI	9.0	7.3	96.3	73.3	9.0	4.7	87.0	56.3	94.7	50.0	6.7	35.0
KIZZLE (K18-ROE)	9.0	8.3	99.0	89.7	9.0	5.0	86.3	55.0	96.3	50.0	5.0	30.0
BATTLE HAWK (NAI-ROS4)	9.0	7.7	99.0	80.0	9.0	4.3	82.7	49.7	99.0	50.0	10.0	28.3
TANK (PPG-TF 338)	9.0	8.3	99.0	86.7	9.0	5.3	84.3	53.3	99.0	50.0	3.3	23.3
ORIOLE (PST-5BYOB)	9.0	8.7	97.7	93.0	9.0	5.0	87.3	57.7	93.3	50.0	6.7	28.3
RAPTOR III	9.0	7.7	99.0	78.3	9.0	4.7	84.0	53.7	99.0	50.0	10.0	30.0
SPYDER 2LS (ZRC1)	9.0	8.0	99.0	83.3	9.0	5.3	84.7	52.0	99.0	50.0	8.3	28.3
ESTRENA	9.0	6.0	99.0	61.7	9.0	4.7	83.3	44.3	99.0	48.3	5.0	26.7
FAYETTE	9.0	7.7	96.0	76.7	9.0	4.3	84.3	47.7	99.0	48.3	5.0	23.3
PROVIDENCE (GO-RH20)	9.0	7.0	97.7	73.3	9.0	4.7	83.3	56.3	99.0	48.3	3.3	18.3
PST-5TRN	9.0	8.0	97.7	86.7	8.7	4.0	85.7	53.7	93.3	48.3	10.0	21.7
RAPTOR LS (PPG-TF 336)	9.0	7.3	99.0	78.0	9.0	5.0	85.0	50.7	99.0	48.3	8.3	26.7
BONFIRE (JS DTT)	8.7	6.0	94.7	66.7	9.0	4.0	86.7	50.0	97.7	46.7	6.7	31.7
K18-NSE	9.0	6.7	99.0	68.3	9.0	4.3	85.0	46.7	96.0	46.7	13.3	30.0
PPG-TF 249	9.0	7.7	99.0	86.3	9.0	4.3	82.7	50.7	97.7	46.7	1.7	23.3
PST-5DZM	8.7	6.7	94.3	73.3	9.0	4.0	84.0	50.3	95.0	46.7	25.0	36.7
RDC	9.0	8.0	99.0	85.0	9.0	4.3	87.0	50.3	99.0	46.7	5.0	20.0
RHL2	9.0	6.7	97.7	73.3	8.7	4.7	84.7	49.7	96.0	46.7	8.3	26.7
TITANIUM G-LS (PPG-TF 255)	9.0	6.7	97.7	71.7	9.0	4.3	84.7	48.0	96.0	46.7	5.0	23.3

TABLE 28B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2020 DATA

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

NAME	UNIFORMITY JULY 6, 2020		FULLNESS OF CANOPY JULY 6, 2020		UNIFORMITY AUGUST 25, 2020		PERCENT GREEN COVER AUGUST 26, 2020		FULLNESS OF CANOPY AUGUST 28, 2020		ANNUAL BLUEGRASS COVER OCTOBER 28, 2020	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
AVENGER III (PPG-TF 308)	9.0	7.7	97.7	78.3	9.0	4.3	84.7	50.0	97.7	45.0	3.3	25.0
BULLSEYE	8.7	7.0	94.3	73.3	8.7	4.7	86.7	51.3	97.7	45.0	11.7	23.3
HOUND DOG NINE (DLFPS-321/3702)	9.0	7.3	97.7	71.7	8.7	4.3	81.7	47.3	97.7	45.0	6.7	18.3
DLFPS-321/3708	9.0	6.0	97.7	65.0	9.0	4.7	79.0	49.7	99.0	45.0	13.3	30.0
FIRECRACKER G-LS (PPG-TF 315)	9.0	7.0	97.7	71.7	9.0	4.7	79.0	50.7	96.3	45.0	10.0	26.7
JT 517	9.0	7.3	97.7	78.3	8.3	4.3	84.0	52.0	97.7	45.0	25.0	35.0
PPG-TF 312	9.0	6.3	99.0	68.3	9.0	4.7	79.0	56.0	97.7	45.0	8.3	41.7
TRIAD (PPG-TF 323)	9.0	6.3	97.7	63.3	9.0	4.3	82.3	49.0	97.7	45.0	8.3	28.3
PRO GOLD	8.7	7.7	94.3	78.3	9.0	4.0	84.0	52.0	96.3	45.0	10.0	18.3
PST-5GQ	9.0	7.3	96.3	78.3	9.0	4.7	85.0	53.7	95.0	45.0	8.3	30.0
TAR HEEL III (PST-5THM)	9.0	7.3	95.0	80.0	9.0	4.3	84.3	48.7	91.7	45.0	6.7	25.0
RS1	9.0	6.7	99.0	70.0	9.0	4.0	82.0	44.7	97.7	45.0	11.7	31.7
BULLSEYE LTZ	9.0	8.0	99.0	83.3	9.0	3.7	84.7	47.7	99.0	43.3	5.0	26.7
FASTLANE (BY-TF-169)	9.0	7.0	99.0	76.7	9.0	4.3	84.3	51.0	99.0	43.3	16.7	33.3
MONUMENT (PST-5SQB)	9.0	8.0	97.7	88.3	8.7	4.0	86.7	48.3	91.7	43.3	6.7	20.0
PADRE 2	9.0	8.0	99.0	83.3	9.0	4.3	84.7	47.7	96.3	43.3	11.7	21.7
PALOMAR	8.0	7.3	85.0	73.3	8.0	3.7	84.7	47.3	90.0	43.3	26.7	30.0
TANGO	9.0	7.7	99.0	81.3	9.0	4.3	79.7	49.7	97.7	43.3	21.7	38.3
SR 8700 (TMT1)	9.0	6.7	99.0	73.0	9.0	4.3	83.7	49.0	99.0	43.3	8.3	28.3
DAYBREAK (AH2)	9.0	6.3	97.7	61.7	9.0	4.0	84.0	45.3	99.0	41.7	10.0	30.0
TYCOON (COL-TF-148)	9.0	6.0	97.7	66.7	9.0	5.0	84.0	46.0	97.7	41.7	6.7	23.3
DLFPS-321/3693	9.0	7.7	99.0	76.7	9.0	3.7	84.3	42.0	99.0	41.7	3.3	25.0
DLFPS-321/3695	9.0	6.3	97.7	65.0	9.0	3.3	84.0	41.7	97.7	41.7	10.0	25.0
CAPITAN (DLFPS-321/3705)	9.0	7.3	99.0	80.0	9.0	4.3	84.3	50.0	96.3	41.7	6.7	33.3
ESCALADE	8.3	8.3	88.3	85.0	8.3	3.7	86.7	51.3	90.0	41.7	25.0	33.3
FALCON SUPREME (RH1)	9.0	8.0	99.0	83.3	9.0	3.7	86.3	52.0	97.7	41.7	5.0	21.7
AST8218LM	8.7	7.3	91.7	75.0	8.3	3.7	87.0	52.0	90.0	40.0	16.7	30.0
BENTLEY (DLFPS-321/3679)	9.0	7.3	97.7	80.0	9.0	3.7	83.7	49.0	96.3	40.0	10.0	26.7
DLFPS-321/3703	9.0	7.0	97.7	73.3	9.0	4.7	85.7	48.7	97.7	40.0	5.0	20.0
DLFPS-321/3706	9.0	5.7	99.0	60.0	9.0	3.7	82.7	45.7	97.7	40.0	18.3	40.0
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	8.3	99.0	86.7	9.0	4.0	85.0	46.0	99.0	40.0	8.3	18.3
GRAND PRIX (FC15-01P)	8.3	7.3	88.3	75.0	8.7	3.7	84.3	48.0	93.3	40.0	15.0	30.0
EXTRAVAGANZA (PST-5MCMO)	8.7	8.0	93.0	83.3	9.0	4.3	83.7	48.3	94.7	40.0	15.0	35.0
ATF2116	8.3	6.7	91.3	73.3	8.7	3.7	87.7	43.0	90.0	38.3	20.0	30.0
BRAVO 2	8.7	7.7	93.0	75.0	9.0	3.3	79.7	42.0	96.3	38.3	11.7	30.0
COPIOUS TF	9.0	6.7	96.3	71.7	8.7	3.3	85.0	48.3	96.3	38.3	25.0	31.7
K18-WB1	9.0	8.0	99.0	85.0	9.0	3.3	83.0	43.7	97.7	38.3	5.0	28.3
LIFEGUARD	8.7	7.7	94.7	80.0	9.0	3.3	81.3	40.7	96.3	38.3	6.7	25.0
SYMPHONY (PPG-TF 305)	9.0	5.7	97.7	60.0	9.0	4.0	86.0	48.3	99.0	38.3	13.3	40.0
GEM (PPG-TF 316)	9.0	5.7	99.0	58.3	9.0	3.7	81.7	45.3	97.7	38.3	8.3	28.3
SERENADE (PPG-TF 320)	9.0	6.7	97.7	68.3	9.0	4.0	83.7	40.0	99.0	38.3	6.7	23.3
PPG-TF 337	9.0	7.7	99.0	78.3	9.0	3.7	81.0	44.0	99.0	38.3	6.7	26.7
RAD-TF131	9.0	5.3	99.0	61.7	8.7	3.3	84.0	45.3	95.0	38.3	15.0	33.3
A-TF31	9.0	7.7	99.0	81.7	9.0	3.7	80.7	51.3	95.0	36.7	16.7	31.7
BAR FA 8228	7.7	6.0	78.3	61.7	8.3	3.3	87.3	47.3	88.3	36.7	13.3	28.3

TABLE 28B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2020 DATA

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

NAME	UNIFORMITY JULY 6, 2020		FULLNESS OF CANOPY JULY 6, 2020		UNIFORMITY AUGUST 25, 2020		PERCENT GREEN COVER AUGUST 26, 2020		FULLNESS OF CANOPY AUGUST 28, 2020		ANNUAL BLUEGRASS COVER OCTOBER 28, 2020	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
TOPSHELF (BGR-TF3)	9.0	7.7	96.3	76.7	8.3	3.7	85.0	46.3	91.7	36.7	11.7	23.3
DRAGSTER	9.0	7.0	99.0	75.0	9.0	4.7	84.3	51.7	99.0	36.7	16.7	38.3
LBF	9.0	6.7	94.7	70.0	8.3	4.0	85.3	50.7	95.0	36.7	16.7	30.0
TOUGH (NAI-TUE)	9.0	7.0	95.0	73.3	8.7	3.7	83.7	46.3	96.3	36.7	26.7	41.7
FIRENZA II (PPG-TF 244)	9.0	6.3	97.7	69.7	9.0	4.3	87.7	51.3	97.7	36.7	5.0	16.7
PST-5MINK	8.3	7.0	89.7	73.3	8.7	4.0	81.3	46.3	91.7	36.7	13.3	35.0
GRO-PRO (SE53D2)	8.3	7.3	94.7	81.7	9.0	4.3	86.3	44.3	95.0	36.7	18.3	31.7
ZION (BAR TF 134)	9.0	6.3	99.0	68.3	9.0	3.7	85.7	41.3	97.7	36.7	16.7	38.3
BANDIT	8.3	7.7	89.7	80.0	8.3	3.3	85.0	50.3	93.3	35.0	18.3	30.0
BIRMINGHAM	8.7	8.0	91.7	83.3	8.7	3.3	84.3	44.7	96.3	35.0	8.3	30.0
DYNAMITE G-LS (PPG-TF 254)	9.0	7.0	99.0	71.3	9.0	3.3	84.0	36.3	96.3	35.0	8.3	26.7
TALLADEGA II (NAI-3N2)	9.0	6.7	97.7	71.7	9.0	3.7	87.3	51.0	97.7	35.0	6.7	26.7
VALSETZ (PPG-TF 257)	9.0	8.0	99.0	78.3	9.0	3.3	81.0	45.0	99.0	35.0	6.7	25.0
HELLCAT GLR (PST-5E6)	9.0	7.3	94.7	73.3	9.0	3.3	83.3	40.0	97.7	35.0	13.3	33.3
FAIRFIELD (SETF104)	9.0	6.3	99.0	69.7	8.7	3.3	85.3	45.7	94.7	35.0	10.0	20.0
STEALTH (PPG-TF 238)	9.0	6.7	99.0	71.7	9.0	3.0	84.0	44.3	97.7	35.0	5.0	28.3
DLFPS-TF/3553	9.0	6.3	97.7	66.7	9.0	3.3	84.0	41.0	97.7	33.3	6.7	25.0
NATURALLY GREEN	8.0	5.7	85.0	60.0	8.3	3.3	86.0	43.3	93.3	33.3	11.7	25.0
NT-3	9.0	6.0	97.7	61.7	9.0	3.3	88.7	40.3	97.7	33.3	6.7	26.7
OG-WALK	8.0	6.3	81.7	66.7	8.0	2.3	84.3	39.7	90.0	33.3	31.7	38.3
GALACTIC (SESCR1)	9.0	5.7	97.7	58.3	9.0	3.3	83.7	47.0	96.3	33.3	11.7	36.7
5LSS	9.0	5.3	99.0	53.3	9.0	3.0	85.0	34.0	99.0	31.7	3.3	20.0
DLFPS-321/3694	9.0	6.0	99.0	65.0	9.0	3.0	83.7	35.0	99.0	31.7	5.0	35.0
BLADERUNNER 3 (DLFPS-321/3701)	9.0	6.3	99.0	66.7	9.0	3.0	85.3	35.7	99.0	31.7	5.0	23.3
GALLARDO (DLFPS-TF/3550)	9.0	5.3	97.7	56.7	9.0	2.7	82.0	32.3	97.7	31.7	1.7	15.0
EXPANSE (PPG-TF 262)	9.0	7.7	99.0	75.0	9.0	3.0	80.7	40.0	99.0	31.7	6.7	31.7
RC4	9.0	6.3	97.7	65.0	9.0	3.3	85.7	46.7	99.0	31.7	5.0	30.0
RHF	8.7	6.3	94.3	65.0	9.0	2.7	84.3	35.3	97.7	31.7	6.7	33.3
SETFM3	9.0	8.3	97.7	85.0	8.3	3.0	87.0	43.3	95.0	31.7	15.0	31.7
BARNOBLE (BAR 9FE MAS)	6.7	4.0	71.7	45.0	8.3	3.7	86.0	48.7	90.0	30.0	38.3	43.3
KENTUCKY-31	7.0	6.3	75.0	70.0	7.0	3.0	81.3	44.0	76.7	30.0	50.0	50.0
RAD-TF105	9.0	6.3	96.0	66.7	8.7	2.7	84.0	35.3	94.7	30.0	15.0	31.7
XANADU (JT 268)	9.0	7.7	99.0	81.3	9.0	2.7	85.3	36.0	99.0	30.0	5.0	31.7
CLASH (AH1)	9.0	5.7	99.0	63.3	9.0	2.3	86.3	43.0	99.0	28.3	8.3	26.7
LAFAYETTE (GO-AOMK)	9.0	7.0	97.7	75.0	9.0	2.3	78.7	32.3	95.0	28.3	15.0	31.7
NAI-FQZ-17	9.0	7.7	97.7	81.7	9.0	3.0	80.7	39.3	96.3	28.3	25.0	40.0
SE5STAR	9.0	7.7	97.7	76.7	9.0	2.3	81.3	35.3	94.7	28.3	10.0	35.0
ATF1768	8.7	6.3	91.3	66.7	8.0	2.7	83.3	40.3	91.3	26.7	18.3	23.3
BAR-FA8230	8.0	6.7	86.7	71.7	8.0	2.3	85.3	40.3	88.3	26.7	28.3	35.0
NAI-ST5	8.7	5.7	97.7	61.7	9.0	2.7	85.7	36.3	97.7	26.7	15.0	40.0
RAD-TF115 (TURBO SS)	8.3	4.7	88.3	46.7	9.0	2.0	84.0	36.3	91.7	23.3	20.0	33.3
SETFM2	8.7	7.3	90.0	73.3	8.3	2.0	86.7	31.0	90.0	21.7	15.0	28.3
LSD VALUE	0.4	2.9	5.5	31.1	0.4	4.6	4.7	49.5	4.1	41.5	15.7	31.7
C.V. (%)	3.2	17.6	3.7	17.6	2.9	36.4	2.9	24.9	2.7	33.5	75.3	35.5

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

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

TABLE 28C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
 2021 DATA  
 TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	UNIFORMITY APRIL 26		FULLNESS OF CANOPY APRIL 26		UNIFORMITY JUNE 10		FULLNESS OF CANOPY JUNE 10		PERCENT GREEN COVER JUNE 11	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SOUTHSIDE (PPG-TF 267)	7.0	6.3	73.3	70.0	9.0	7.7	97.7	80.0	92.0	82.7
PRO GOLD	7.0	7.0	70.0	75.0	8.7	7.3	95.0	78.3	94.3	82.7
ORIOLE (PST-5BYOB)	7.0	4.7	70.0	53.3	8.7	6.0	95.0	68.3	92.0	82.7
CAPITAN (DLFPS-321/3705)	6.0	3.7	63.3	45.0	8.7	5.3	89.7	51.7	93.0	82.0
DAYBREAK (AH2)	5.3	4.3	53.3	48.3	8.7	6.3	88.3	66.7	93.7	80.7
PPG-TF 231	6.7	6.3	76.7	70.0	9.0	7.3	99.0	73.3	91.7	80.7
FALCON SUPREME (RH1)	6.3	6.0	68.3	65.0	9.0	6.7	96.3	70.0	92.3	80.7
DEGAS (LTP-TF-111)	5.3	6.0	60.0	63.3	8.7	6.3	91.7	65.0	93.0	80.3
FIREHAWK SLT	5.3	5.0	58.3	55.0	9.0	5.0	92.7	61.7	92.7	80.0
MOONDANCE GLX	6.0	4.7	66.7	46.7	8.0	5.7	88.3	63.3	92.3	80.0
PADRE 2	6.0	6.3	61.7	66.7	9.0	6.7	95.0	66.7	92.0	79.7
ROVER (PPG-TF 306)	6.7	6.7	73.3	71.7	9.0	7.3	99.0	78.3	92.3	79.7
PST-5DC24	5.3	5.3	58.3	58.3	8.7	6.7	91.7	73.3	91.3	79.3
PST-5TRN	7.3	5.7	78.3	63.3	8.3	7.3	96.3	71.7	91.0	79.3
FINELAWN SUPREME (RH3)	6.3	6.3	75.0	65.0	9.0	7.3	96.3	73.3	90.7	79.3
ESTRENA	6.0	6.0	63.3	65.0	8.7	6.3	91.7	56.7	90.3	79.0
GLX ACED (PST-5DART)	7.0	7.7	70.0	70.0	8.7	7.7	91.7	78.3	92.3	78.7
ROWDIER (DLFPS-321/3699)	6.7	6.0	70.0	63.3	9.0	7.0	94.7	70.0	90.3	78.7
DLFPS-321/3706	6.3	5.3	66.7	55.0	8.7	5.7	94.7	58.3	92.0	78.3
PPG-TF 318	4.3	5.0	46.7	56.7	7.7	6.7	85.0	61.7	91.0	78.3
TD2	6.0	5.3	70.0	60.0	8.7	6.7	97.7	66.7	90.3	78.3
ENDGAME (3N1)	5.3	5.7	63.3	58.3	9.0	6.7	96.0	73.3	91.7	78.0
BULLSEYE	5.7	5.3	58.3	55.0	8.3	6.3	86.7	65.0	91.3	78.0
DLFPS-321/3707	5.7	4.7	65.0	50.0	9.0	6.0	96.3	58.3	90.7	78.0
FIRECRACKER G-LS (PPG-TF 315)	6.7	4.7	73.3	51.7	9.0	6.0	99.0	63.3	90.7	78.0
GRANDE 3	4.3	4.0	48.3	43.3	8.0	5.3	75.0	53.3	93.0	78.0
BATTLE HAWK (NAI-ROS4)	7.0	6.7	70.0	68.3	8.3	6.7	91.3	75.0	91.0	78.0
RAPTOR LS (PPG-TF 336)	6.7	5.3	73.3	68.3	9.0	7.0	94.7	71.7	92.0	78.0
SPYDER 2LS (ZRC1)	6.0	5.7	65.0	66.7	8.3	6.0	89.7	66.7	91.3	78.0
TOUGH (NAI-TUE)	5.7	5.7	56.7	51.7	8.7	6.0	91.7	70.0	92.7	78.0
FASTLANE (BY-TF-169)	6.7	5.0	70.0	60.0	9.0	6.0	96.3	56.7	89.7	77.7
DLFPS-321/3708	6.0	6.3	65.0	66.7	9.0	6.3	96.0	68.3	90.7	77.7
HOUNDOG NINE (DLFPS-321/3702)	9.0	8.0	91.7	80.0	9.0	7.7	99.0	71.7	89.0	77.7
PPG-TF 249	6.7	6.3	78.3	66.7	9.0	7.7	97.7	75.0	90.0	77.7
PPG-TF 337	6.0	5.3	65.0	58.3	9.0	6.0	96.0	68.3	89.3	77.7
AST8118LM	5.3	5.7	58.3	65.0	8.7	6.3	83.3	60.0	89.3	77.3
K18-NSE	7.7	5.7	75.0	58.3	9.0	6.0	97.7	56.7	91.0	77.3
VALSETZ (PPG-TF 257)	6.7	4.7	73.3	48.3	8.7	5.7	94.3	55.0	89.7	77.3
ESSENTIAL 2 (DLFPS-TF/3552)	7.0	6.0	73.3	60.0	9.0	7.0	99.0	70.0	91.0	77.0
PST-5GQ	7.3	7.0	71.7	63.3	8.7	6.0	95.0	60.0	92.0	77.0
SYMPHONY (PPG-TF 305)	5.7	4.3	63.3	50.0	9.0	5.7	95.0	58.3	91.3	77.0
AVENGER III (PPG-TF 308)	5.3	4.3	56.7	45.0	8.7	5.3	93.3	51.7	92.7	76.7
DLFPS-321/3703	8.7	6.3	80.0	68.3	9.0	6.7	99.0	75.0	91.0	76.7
PPG-TF 312	7.0	4.3	71.7	48.3	9.0	5.7	99.0	56.7	87.3	76.7
TANK (PPG-TF 338)	6.7	7.3	70.0	75.0	9.0	7.3	93.0	71.7	90.0	76.7

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA

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

NAME	UNIFORMITY APRIL 26		FULLNESS OF CANOPY APRIL 26		UNIFORMITY JUNE 10		FULLNESS OF CANOPY JUNE 10		PERCENT GREEN COVER JUNE 11	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
	BRAVO 2	7.3	7.0	76.7	68.3	8.7	7.3	96.3	75.0	89.7
COPIOUS TF	6.3	6.3	68.3	63.3	9.0	5.7	93.3	66.7	90.0	76.3
SR 8700 (TMT1)	6.0	4.7	63.3	41.7	8.7	5.0	91.7	51.7	91.3	76.3
BONFIRE (JS DTT)	6.3	4.0	63.3	46.7	9.0	5.3	95.0	61.7	93.0	76.0
FIRENZA II (PPG-TF 244)	5.3	5.0	60.0	56.7	8.0	6.3	88.0	56.7	92.7	76.0
HEMI	6.0	6.0	66.7	56.7	8.3	6.7	89.7	65.0	89.7	76.0
LIFEGUARD	7.0	6.3	71.7	71.7	9.0	6.3	95.0	68.3	89.0	76.0
PST-5DZM	5.7	5.7	63.3	61.7	9.0	6.7	90.0	65.0	92.3	76.0
RAD-TF131	5.7	4.0	60.0	41.7	8.3	4.7	91.3	51.7	90.0	76.0
SERENADE (PPG-TF 320)	6.3	5.0	71.7	58.3	9.0	6.3	93.0	63.3	92.0	76.0
TANGO	6.0	5.7	61.7	63.3	8.7	6.7	88.3	68.3	90.7	76.0
BIRMINGHAM	7.0	7.0	75.0	71.7	8.3	6.7	91.3	70.0	90.3	75.7
FAYETTE	7.7	7.0	76.7	76.7	9.0	6.3	93.0	70.0	91.3	75.7
K18-WB1	6.3	5.3	71.7	61.7	9.0	5.3	79.7	61.7	90.0	75.7
RHL2	7.7	7.0	78.3	66.7	9.0	7.0	99.0	71.7	90.0	75.7
TITAN MAX (TF456)	6.0	5.7	68.3	61.7	9.0	6.7	93.0	65.0	89.3	75.7
DRAGSTER	5.7	5.0	60.0	50.0	8.3	5.0	90.0	50.0	89.3	75.3
KIZZLE (K18-ROE)	7.7	7.3	75.0	70.0	9.0	6.3	95.0	70.0	89.7	75.3
OKEEFE (LTP-TF-122)	7.0	6.3	78.3	68.3	9.0	6.7	99.0	66.7	91.3	75.3
GEM (PPG-TF 316)	7.7	5.7	73.3	50.0	8.7	6.0	96.3	60.0	91.7	75.3
RACEWAY (DLFPS-321/3696)	8.3	8.0	85.0	76.7	9.0	8.0	97.7	81.7	90.0	75.3
TALLADEGA II (NAI-3N2)	7.7	7.0	78.3	66.7	9.0	6.0	93.0	68.3	92.3	75.3
DLFPS-321/3693	7.0	6.0	70.0	65.0	8.3	6.0	91.0	60.0	91.3	75.0
FIERCE (K18-RS6)	5.0	5.7	61.7	65.0	8.3	6.3	89.3	70.0	91.3	75.0
PARAMOUNT	6.7	5.3	70.0	60.0	9.0	6.7	93.3	65.0	89.0	75.0
EXTRAVAGANZA (PST-5MCMO)	6.3	6.0	65.0	68.3	8.3	6.0	91.7	61.7	91.7	75.0
RC4	7.7	5.7	81.7	61.7	9.0	5.3	96.0	56.7	90.7	75.0
BULLSEYE LTZ	7.3	6.7	76.7	75.0	9.0	7.7	94.7	68.3	90.3	74.7
RAPTOR III	6.0	4.7	58.3	51.7	8.7	6.3	91.0	60.0	90.3	74.7
SETFM3	5.3	5.0	58.3	51.7	8.3	5.3	86.3	60.0	92.0	74.7
CLASH (AH1)	7.3	5.7	75.0	58.3	9.0	5.3	97.7	61.7	93.0	74.3
PST-5MINK	7.3	6.3	75.0	63.3	8.7	7.0	95.0	73.3	87.3	74.3
STEALTH (PPG-TF 238)	5.7	5.0	65.0	50.0	9.0	5.7	97.7	58.3	91.0	74.3
TEACHER (PPG-TF 313)	5.0	4.7	56.7	46.7	8.0	5.7	84.7	55.0	89.3	74.3
BAR-FA8230	5.0	5.0	53.3	46.7	7.7	4.0	81.7	41.7	90.0	74.0
JT 233	6.3	5.3	70.0	63.3	9.0	7.0	97.7	65.0	89.7	74.0
MONUMENT (PST-5SQB)	6.7	6.7	66.7	65.0	8.7	6.0	93.3	66.7	92.0	74.0
TITAN GLX (TF445)	5.3	4.7	63.3	55.0	8.7	5.7	88.0	61.7	90.7	74.0
TITANIUM G-LS (PPG-TF 255)	6.7	5.3	66.7	55.0	9.0	5.3	99.0	55.0	91.0	73.7
GALACTIC (SESCR1)	6.7	4.7	63.3	53.3	8.7	4.7	91.3	51.7	88.7	73.3
NAI-FQZ-17	7.0	5.0	70.0	56.7	8.7	6.0	93.0	63.3	91.0	73.3
EXPANSE (PPG-TF 262)	7.0	5.3	70.0	53.3	9.0	6.3	99.0	63.3	90.7	73.3
XANADU (JT 268)	4.7	4.3	51.7	46.7	8.3	4.7	86.3	58.3	92.7	73.3
AST8218LM	5.3	5.3	56.7	55.0	8.0	5.0	81.7	51.7	90.0	73.0
BANDIT	5.0	5.7	53.3	48.3	8.0	5.7	91.7	56.7	91.0	73.0



TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA

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

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

NAME	UNIFORMITY APRIL 26		FULLNESS OF CANOPY APRIL 26		UNIFORMITY JUNE 10		FULLNESS OF CANOPY JUNE 10		PERCENT GREEN COVER JUNE 11	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
TAR HEEL III (PST-5THM)	6.3	6.0	61.7	63.3	8.3	5.7	93.3	65.0	89.7	73.0
SE5STAR	7.7	6.7	80.0	75.0	9.0	6.0	96.3	60.0	90.0	73.0
ZION (BAR TF 134)	7.0	4.7	71.7	51.7	8.7	5.7	97.7	55.0	92.0	73.0
LAFAYETTE (GO-AOMK)	7.0	6.0	70.0	61.7	8.7	5.7	88.0	63.3	88.0	72.7
BENTLEY (DLFPS-321/3679)	8.0	7.0	80.0	75.0	8.7	6.7	97.7	73.3	90.7	72.3
A-TF31	4.7	5.0	55.0	60.0	8.3	6.0	85.0	60.0	87.7	72.0
BARNOBLE (BAR 9FE MAS)	3.7	3.7	43.3	41.7	7.3	4.0	71.7	45.0	88.7	72.0
FAIRFIELD (SETF104)	6.3	5.7	68.3	58.3	9.0	6.3	94.7	65.0	88.7	72.0
GRO-PRO (SE53D2)	6.3	6.7	71.7	68.3	8.3	5.7	91.7	51.7	89.7	72.0
TOPSHELF (BGR-TF3)	7.0	6.7	70.0	68.3	9.0	5.7	90.0	60.0	90.0	71.7
LBF	5.7	5.7	58.3	60.0	8.7	5.7	88.3	60.0	89.7	71.7
HELLCAT GLR (PST-5E6)	7.0	5.7	70.0	58.3	8.7	5.3	93.3	58.3	91.3	71.7
BLADERUNNER 3 (DLFPS-321/3701)	8.0	5.3	78.3	58.3	9.0	5.3	99.0	58.3	90.7	71.0
DYNAMITE G-LS (PPG-TF 254)	7.7	5.7	75.0	51.7	9.0	4.3	99.0	50.0	89.7	71.0
PROVIDENCE (GO-RH20)	5.7	5.3	61.7	56.7	8.0	5.3	81.0	60.0	91.7	71.0
JT 517	5.0	5.0	50.0	50.0	8.0	5.7	85.0	61.7	89.3	71.0
RS1	6.7	6.0	73.3	66.7	9.0	6.0	97.7	63.3	91.3	71.0
PALOMAR	6.0	5.7	66.7	70.0	8.3	5.3	83.3	56.7	86.7	70.7
RDC	7.0	6.7	66.7	65.0	9.0	6.7	96.3	63.3	91.0	70.7
3B2	5.7	5.3	58.3	53.3	8.7	6.0	86.7	58.3	89.3	70.3
SETFM2	6.0	5.3	65.0	53.3	8.3	5.3	90.0	55.0	91.3	70.3
DLFPS-321/3695	8.0	6.3	80.0	65.0	9.0	5.0	93.3	50.0	92.0	70.0
ESCALADE	5.0	5.3	55.0	60.0	7.7	5.0	83.3	46.7	90.3	70.0
GALLARDO (DLFPS-TF/3550)	7.0	6.3	75.0	68.3	9.0	6.3	97.7	66.7	90.0	70.0
GLX REVIVE (PST-5GLBS)	6.3	5.7	65.0	53.3	8.3	5.3	86.7	63.3	89.0	70.0
5LSS	7.0	5.7	73.3	60.0	9.0	5.3	97.7	58.3	92.7	69.7
TRIAD (PPG-TF 323)	8.0	5.7	78.3	63.3	9.0	6.0	97.7	60.0	89.0	69.7
TYCOON (COL-TF-148)	8.0	5.7	81.7	73.3	9.0	5.0	96.3	58.3	90.7	69.0
RAD-TF115 (TURBO SS)	5.3	3.7	63.3	48.3	8.3	4.7	85.0	43.3	87.7	69.0
BAR FA 8228	5.7	4.3	63.3	50.0	7.7	4.3	81.7	45.0	90.3	68.7
DLFPS-TF/3553	6.7	6.0	73.3	70.0	9.0	6.3	97.7	65.0	90.3	68.7
RHF	5.7	5.3	58.3	55.0	8.3	4.7	84.7	48.3	92.0	68.3
KENTUCKY-31	4.3	3.0	43.3	35.0	5.7	3.0	53.3	31.7	86.0	68.0
RAD-TF105	6.7	5.0	68.3	50.0	9.0	5.0	94.7	53.3	89.7	68.0
DLFPS-321/3694	6.0	5.0	61.7	55.0	8.7	5.0	88.3	51.7	90.7	67.7
NT-3	6.7	5.3	70.0	58.3	8.3	5.0	87.7	55.0	92.7	67.3
GRAND PRIX (FC15-01P)	6.3	6.3	66.7	65.0	8.3	5.7	86.7	56.7	89.7	67.0
NAI-ST5	6.3	4.0	70.0	45.0	7.7	3.7	86.3	46.7	92.7	66.7
ATF1768	6.3	5.3	66.7	56.7	8.3	5.3	86.7	50.0	86.7	66.3
ATF2116	6.3	6.0	65.0	63.3	8.0	5.0	81.7	53.3	90.7	65.7
OG-WALK	5.0	4.0	53.3	48.3	7.7	4.0	76.7	41.7	87.7	65.7
NATURALLY GREEN	6.0	6.0	58.3	65.0	8.0	4.7	81.7	51.7	89.7	64.3
LSD VALUE	3.9	3.6	31.6	32.6	1.1	2.7	14.5	31.2	3.6	31.9
C.V. (%)	22.0	24.0	18.3	21.5	6.6	20.2	8.3	20.2	2.0	9.2

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

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

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SUMMER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	JULY 29 NO TRAFFIC	TRAFFIC	JULY 30 NO TRAFFIC	TRAFFIC	JULY 30 NO TRAFFIC	TRAFFIC
PPG-TF 312	9.0	6.3	99.0	58.3	91.3	84.3
PRO GOLD	8.7	6.7	96.3	63.3	92.3	83.0
GLX ACED (PST-5DART)	8.7	6.7	95.0	63.3	93.3	82.0
TD2	9.0	6.3	97.7	63.3	92.0	81.7
MOONDANCE GLX	8.0	6.0	95.0	65.0	92.7	81.3
ORIOLE (PST-5BYOB)	8.3	6.0	91.7	53.3	92.3	81.3
CAPTAN (DLFPS-321/3705)	9.0	6.0	99.0	51.7	93.3	81.0
SPYDER 2LS (ZRC1)	9.0	6.3	97.7	65.0	92.0	81.0
TITAN MAX (TF456)	9.0	6.3	96.0	56.7	93.3	81.0
ROVER (PPG-TF 306)	9.0	7.3	99.0	68.3	92.7	80.7
PPG-TF 337	9.0	7.0	97.7	58.3	92.0	80.7
PST-5DC24	8.3	6.0	90.0	50.0	91.3	80.7
FIREHAWK SLT	9.0	6.0	97.7	60.0	94.0	80.3
FIRENZA II (PPG-TF 244)	9.0	6.0	97.7	51.7	93.3	80.3
PPG-TF 318	8.7	6.7	93.0	66.7	92.0	80.3
PST-5GQ	9.0	6.3	96.3	56.7	91.7	80.3
PST-5TRN	8.7	6.7	94.7	63.3	92.7	80.3
ROWDIER (DLFPS-321/3699)	9.0	7.0	96.3	58.3	92.0	80.3
DEGAS (LTP-TF-111)	9.0	4.7	97.7	55.0	92.7	80.0
KIZZLE (K18-ROE)	8.7	5.7	94.3	51.7	93.0	80.0
PPG-TF 231	9.0	6.7	97.7	68.3	90.0	80.0
RAPTOR III	9.0	6.3	97.7	56.7	92.3	80.0
RHL2	9.0	5.7	97.7	51.7	92.3	80.0
ENDGAME (3N1)	9.0	6.7	97.7	58.3	92.7	79.7
DLFPS-321/3708	9.0	6.0	99.0	63.3	89.0	79.7
RACEWAY (DLFPS-321/3696)	9.0	5.3	97.7	60.0	90.3	79.7
FINELAWN SUPREME (RH3)	8.7	6.7	97.7	66.7	91.7	79.7
HEMI	9.0	5.7	91.7	55.0	92.3	79.3
FIERCE (K18-RS6)	8.7	6.7	96.0	68.3	92.0	79.3
BATTLE HAWK (NAI-ROS4)	9.0	6.3	94.7	61.7	92.3	79.3
EXTRAVAGANZA (PST-5MCMO)	8.7	5.3	95.0	53.3	91.0	79.3
FASTLANE (BY-TF-169)	9.0	5.0	99.0	45.0	92.7	79.0
RAPTOR LS (PPG-TF 336)	9.0	6.3	99.0	61.7	92.3	79.0
GALACTIC (SESCR1)	9.0	5.3	94.7	46.7	91.7	78.7
K18-WB1	9.0	5.7	99.0	51.7	91.3	78.7
FALCON SUPREME (RH1)	9.0	6.3	91.7	53.3	94.0	78.7
SR 8700 (TMT1)	8.7	5.3	97.7	38.3	91.3	78.7
DRAGSTER	9.0	5.7	97.7	43.3	92.3	78.3
FIRECRACKER G-LS (PPG-TF 315)	9.0	7.0	99.0	58.3	90.0	78.3
JT 233	9.0	6.7	96.3	63.3	92.0	78.3
TANGO	8.7	5.7	93.3	58.3	90.3	78.3
HOUND DOG NINE (DLFPS-321/3702)	9.0	6.3	99.0	56.7	90.3	78.0
TEACHER (PPG-TF 313)	9.0	5.3	97.7	46.7	92.0	78.0
LIFEGUARD	8.7	5.7	95.0	50.0	94.0	77.7
OKEEFE (LTP-TF-122)	9.0	5.7	99.0	50.0	91.3	77.7

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SUMMER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	UNIFORMITY JULY 29		FULLNESS OF CANOPY JULY 30		PERCENT GREEN COVER JULY 30	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SOUTHSIDE (PPG-TF 267)	9.0	6.7	99.0	70.0	92.3	77.7
TAR HEEL III (PST-5THM)	8.0	5.7	93.3	50.0	91.7	77.7
STEALTH (PPG-TF 238)	9.0	5.7	99.0	41.7	92.3	77.7
TANK (PPG-TF 338)	9.0	6.7	99.0	65.0	90.7	77.7
DAYBREAK (AH2)	9.0	5.7	99.0	56.7	91.7	77.3
BULLSEYE LTZ	9.0	6.3	97.7	58.3	92.0	77.3
DLFPS-321/3703	9.0	6.3	99.0	58.3	92.3	77.3
TALLADEGA II (NAI-3N2)	9.0	5.7	97.7	55.0	91.3	77.3
AST8118LM	8.7	5.7	93.3	46.7	91.7	77.0
AVENGER III (PPG-TF 308)	8.7	5.0	97.7	48.3	90.0	77.0
BULLSEYE	9.0	6.0	91.7	51.7	94.0	77.0
DLFPS-321/3693	8.7	5.0	96.0	48.3	91.3	77.0
FAYETTE	9.0	5.7	96.3	48.3	91.3	77.0
VALSETZ (PPG-TF 257)	9.0	6.0	97.7	43.3	90.7	77.0
RAD-TF131	8.7	4.7	93.3	46.7	92.3	77.0
SYMPHONY (PPG-TF 305)	9.0	5.7	99.0	51.7	93.0	77.0
BONFIRE (JS DTT)	8.7	5.0	96.3	50.0	91.3	76.7
GRANDE 3	9.0	4.7	91.7	48.3	92.7	76.7
JT 517	8.3	4.3	93.3	38.3	91.7	76.7
PADRE 2	9.0	5.7	97.7	60.0	91.7	76.7
XANADU (JT 268)	9.0	5.7	97.7	51.7	92.3	76.7
BRAVO 2	9.0	6.3	96.3	60.0	91.3	76.3
DLFPS-321/3707	9.0	6.7	99.0	55.0	91.0	76.3
ESCALADE	7.7	5.0	85.0	43.3	92.0	76.0
PARAMOUNT	9.0	6.3	96.3	53.3	91.3	76.0
PPG-TF 249	9.0	6.0	99.0	63.3	91.0	76.0
RC4	9.0	4.7	99.0	43.3	89.7	76.0
RS1	9.0	5.0	97.7	41.7	92.3	76.0
TOUGH (NAI-TUE)	9.0	5.0	91.7	51.7	91.7	76.0
BANDIT	8.0	4.7	95.0	45.0	91.3	75.7
COPIOUS TF	9.0	5.0	96.3	48.3	92.3	75.7
DLFPS-321/3706	9.0	5.3	99.0	45.0	90.7	75.7
PST-5DZM	8.7	5.3	93.3	53.3	90.7	75.7
PROVIDENCE (GO-RH20)	8.7	5.0	96.0	53.3	90.0	75.3
PST-5MINK	8.7	5.7	90.0	46.7	91.0	75.3
TITAN GLX (TF445)	9.0	5.3	96.3	41.7	92.3	75.3
TRIAD (PPG-TF 323)	9.0	5.0	99.0	36.7	92.0	75.3
BIRMINGHAM	9.0	6.0	94.7	48.3	91.0	75.0
EXPANSE (PPG-TF 262)	9.0	5.0	99.0	51.7	88.7	75.0
SE5STAR	9.0	5.3	94.7	48.3	92.7	75.0
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	5.7	96.3	48.3	91.3	74.7
HELLCAT GLR (PST-5E6)	8.7	5.0	93.0	43.3	92.7	74.7
BARNOBLE (BAR 9FE MAS)	8.0	4.0	75.0	28.3	92.3	74.3
BENTLEY (DLFPS-321/3679)	9.0	5.7	95.0	50.0	90.7	74.3
FAIRFIELD (SETF104)	9.0	5.3	97.7	45.0	90.3	74.3

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SUMMER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	UNIFORMITY JULY 29		FULLNESS OF CANOPY JULY 30		PERCENT GREEN COVER JULY 30	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
K18-NSE	9.0	4.7	99.0	40.0	90.7	74.3
MONUMENT (PST-5SQB)	8.7	6.0	88.3	55.0	92.3	74.3
GEM (PPG-TF 316)	9.0	6.0	97.7	51.7	90.7	74.3
CLASH (AH1)	9.0	4.7	99.0	40.0	92.0	74.0
TITANIUM G-LS (PPG-TF 255)	9.0	5.0	97.7	43.3	93.3	74.0
DLFPS-TF/3553	9.0	5.3	96.3	41.7	90.7	73.7
TOPSHELF (BGR-TF3)	8.7	4.7	88.3	38.3	91.0	73.3
3B2	8.7	4.3	96.3	45.0	91.3	73.0
AST8218LM	8.3	4.3	85.0	36.7	90.7	73.0
ESTRENA	9.0	6.7	97.7	61.7	91.7	73.0
GRAND PRIX (FC15-01P)	8.0	4.3	90.0	46.7	91.3	73.0
NAI-FQZ-17	9.0	4.7	96.3	51.7	90.3	73.0
SERENADE (PPG-TF 320)	9.0	5.0	99.0	45.0	91.3	73.0
A-TF31	8.7	5.0	93.3	48.3	91.0	72.7
LBF	8.0	4.3	90.0	36.7	90.3	72.7
PALOMAR	7.7	4.3	86.7	36.7	91.0	72.7
SETFM3	8.7	4.3	93.3	31.7	91.0	72.7
ZION (BAR TF 134)	9.0	5.3	99.0	45.0	92.3	72.7
BLADERUNNER 3 (DLFPS-321/3701)	9.0	5.0	99.0	41.7	93.0	72.3
DLFPS-321/3695	9.0	4.0	96.3	38.3	93.3	72.0
5LSS	9.0	5.3	97.7	43.3	93.0	71.3
BAR-FA8230	8.0	3.3	81.7	31.7	91.3	71.3
GRO-PRO (SE53D2)	8.0	5.7	90.0	41.7	91.0	71.3
BAR FA 8228	7.7	3.0	80.0	30.0	92.0	71.0
TYCOON (COL-TF-148)	9.0	4.7	96.0	41.7	90.3	71.0
RAD-TF105	9.0	4.0	95.0	36.7	90.3	71.0
LAFAYETTE (GO-AOMK)	9.0	4.7	96.3	48.3	88.7	70.7
GLX REVIVE (PST-5GLBS)	8.3	5.3	93.0	46.7	94.0	70.7
SETFM2	8.7	4.3	91.7	36.7	91.7	70.7
RDC	9.0	5.0	97.7	40.0	90.7	70.3
DYNAMITE G-LS (PPG-TF 254)	9.0	4.7	99.0	43.3	91.7	70.0
ATF2116	8.0	3.7	83.3	36.7	92.3	69.3
NATURALLY GREEN	8.3	3.7	88.3	43.3	91.3	69.3
DLFPS-321/3694	9.0	4.3	97.7	41.7	92.7	68.7
KENTUCKY-31	5.3	2.0	48.3	23.3	90.0	68.7
NAI-ST5	9.0	3.0	96.3	31.7	90.7	68.3
NT-3	9.0	3.7	94.3	35.0	90.7	68.3
RHF	8.7	4.7	97.7	36.7	92.3	67.3
GALLARDO (DLFPS-TF/3550)	9.0	5.3	97.7	50.0	89.3	66.7
ATF1768	8.0	3.7	90.0	31.7	91.7	66.3
RAD-TF115 (TURBO SS)	9.0	3.3	90.0	28.3	90.0	65.7
OG-WALK	7.7	3.0	80.0	26.7	91.0	64.0
LSD VALUE	0.5	3.1	5.2	27.4	4.4	24.3
C.V. (%)	3.9	24.8	3.7	26.1	1.7	8.5

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

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

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER FALL TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	PERCENT POA ANNUA OCTOBER 2021		UNIFORMITY SEPTEMBER 16		FULLNESS OF CANOPY SEPTEMBER 17		PERCENT GREEN COVER SEPTEMBER 17	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
GLX ACED (PST-5DART)	3.3	21.7	8.7	6.0	94.7	55.0	93.0	88.0
FINELAWN SUPREME (RH3)	1.7	20.0	9.0	6.3	96.0	63.3	90.7	85.7
MOONDANCE GLX	8.3	26.7	8.3	3.7	90.0	40.0	92.0	83.3
PST-5TRN	15.0	25.0	8.7	5.0	91.7	55.0	92.3	83.0
COPIOUS TF	23.3	31.7	8.3	3.7	86.3	43.3	91.7	82.7
RACEWAY (DLFPS-321/3696)	13.3	31.7	8.7	5.3	97.7	51.7	90.7	82.7
ENDGAME (3N1)	5.0	26.7	9.0	4.3	97.7	53.3	92.7	81.3
DEGAS (LTP-TF-111)	11.7	46.7	8.7	4.3	97.7	41.7	93.0	81.0
FIERCE (K18-RS6)	5.0	26.7	9.0	4.7	99.0	48.3	91.3	80.7
PPG-TF 231	10.0	25.0	9.0	5.3	99.0	58.3	89.3	80.7
TD2	11.7	30.0	9.0	5.3	99.0	51.7	91.7	80.7
SOUTHSHIDE (PPG-TF 267)	3.3	20.0	9.0	6.0	97.7	61.7	92.3	80.3
ROWDIER (DLFPS-321/3699)	20.0	40.0	8.7	4.3	88.0	50.0	91.3	80.3
PPG-TF 249	5.0	25.0	9.0	5.0	97.7	50.0	91.0	79.7
PRO GOLD	8.3	25.0	8.7	5.0	94.7	48.3	92.3	79.7
BANDIT	15.0	36.7	8.0	3.0	90.0	38.3	92.3	79.3
BATTLE HAWK (NAI-ROS4)	6.7	33.3	8.7	4.3	96.0	45.0	92.3	79.3
ROVER (PPG-TF 306)	6.7	25.0	9.0	5.3	99.0	53.3	92.7	79.3
RAPTOR III	10.0	31.7	9.0	5.7	96.3	51.7	92.0	79.3
AST8118LM	5.0	23.3	8.3	4.3	94.7	51.7	91.3	78.7
FIRENZA II (PPG-TF 244)	8.3	28.3	8.7	4.7	99.0	53.3	94.3	78.7
RAD-TF131	13.3	33.3	8.0	4.7	96.3	48.3	91.7	78.7
HEMI	8.3	30.0	8.7	5.0	97.7	53.3	91.7	78.3
K18-WB1	13.3	25.0	9.0	4.0	99.0	46.7	92.0	78.3
PARAMOUNT	3.3	30.0	9.0	5.0	99.0	53.3	92.0	78.3
PPG-TF 318	13.3	31.7	8.7	4.7	97.7	53.3	92.0	78.0
PST-5DC24	18.3	35.0	8.0	4.7	91.7	43.3	92.0	77.7
JT 233	6.7	25.0	9.0	4.7	97.7	51.7	91.0	77.3
ORIOLE (PST-5BYOB)	10.0	38.3	8.3	4.3	91.7	45.0	93.0	77.3
TEACHER (PPG-TF 313)	11.7	28.3	9.0	4.0	96.3	46.7	89.3	77.3
DLFPS-321/3708	13.3	38.3	9.0	3.7	99.0	46.7	91.0	76.7
BULLSEYE	15.0	26.7	8.0	5.0	96.3	51.7	94.7	76.3
HOUNDOG NINE (DLFPS-321/3702)	11.7	30.0	9.0	4.3	97.7	46.7	91.0	76.3
VALSETZ (PPG-TF 257)	15.0	31.7	9.0	3.7	99.0	35.0	91.7	76.0
TITAN MAX (TF456)	11.7	26.7	9.0	4.7	99.0	51.7	93.0	76.0
BRAVO 2	16.7	35.0	8.3	3.3	91.7	40.0	91.0	75.7
FIRECRACKER G-LS (PPG-TF 315)	16.7	28.3	9.0	5.3	99.0	58.3	91.3	75.7
TOPSHELF (BGR-TF3)	16.7	25.0	8.0	3.7	90.0	43.3	91.0	75.3
LBF	15.0	35.0	8.3	3.3	91.7	33.3	91.0	75.3
PPG-TF 312	25.0	51.7	9.0	3.3	99.0	35.0	90.3	75.3
PPG-TF 337	10.0	33.3	9.0	4.7	99.0	46.7	92.0	75.3
RS1	8.3	35.0	9.0	4.0	97.7	43.3	91.7	75.3
TANK (PPG-TF 338)	5.0	28.3	9.0	5.3	99.0	51.7	89.3	75.3
BULLSEYE LTZ	5.0	25.0	9.0	4.7	99.0	51.7	91.3	75.0
DRAGSTER	21.7	51.7	9.0	3.0	99.0	30.0	92.0	75.0

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER FALL TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	PERCENT POA ANNUA		UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	OCTOBER 2021 NO TRAFFIC	TRAFFIC	SEPTEMBER 16 NO TRAFFIC	TRAFFIC	SEPTEMBER 17 NO TRAFFIC	TRAFFIC	SEPTEMBER 17 NO TRAFFIC	TRAFFIC
PROVIDENCE (GO-RH20)	3.3	30.0	8.7	4.0	99.0	43.3	89.0	75.0
TAR HEEL III (PST-5THM)	13.3	28.3	8.3	4.7	91.7	46.7	91.0	75.0
RAPTOR LS (PPG-TF 336)	11.7	28.3	9.0	4.3	99.0	48.3	93.3	75.0
GALACTIC (SESCR1)	16.7	41.7	9.0	3.7	97.7	41.7	90.0	74.7
GRAND PRIX (FC15-01P)	15.0	26.7	8.3	4.3	91.7	48.3	90.0	74.7
TITAN GLX (TF445)	8.3	31.7	9.0	3.7	99.0	38.3	91.7	74.7
DLFPS-321/3703	3.3	23.3	9.0	4.0	99.0	41.7	91.7	74.3
JT 517	16.7	36.7	8.3	3.0	90.0	36.7	91.7	74.3
FAIRFIELD (SETF104)	15.0	30.0	8.7	4.3	96.3	48.3	90.3	74.0
KIZZLE (K18-ROE)	10.0	28.3	9.0	4.0	96.0	41.7	92.3	74.0
SPYDER 2LS (ZRC1)	3.3	28.3	9.0	4.3	99.0	50.0	92.7	74.0
A-TF31	13.3	31.7	9.0	3.7	94.7	45.0	89.7	73.7
PADRE 2	11.7	28.3	9.0	4.0	96.0	46.7	93.3	73.7
TANGO	16.7	43.3	8.7	4.0	95.0	40.0	91.3	73.3
BIRMINGHAM	10.0	33.3	8.7	4.3	91.7	46.7	91.3	73.0
RHL2	6.7	23.3	9.0	4.0	99.0	45.0	92.0	73.0
OKEEFE (LTP-TF-122)	6.7	36.7	9.0	3.0	99.0	33.3	90.3	72.7
GEM (PPG-TF 316)	13.3	35.0	8.7	4.0	99.0	35.0	91.3	72.3
PST-5GQ	18.3	38.3	8.7	4.0	96.3	43.3	93.0	72.3
TALLADEGA II (NAI-3N2)	11.7	33.3	8.7	3.3	99.0	33.3	92.3	72.3
DAYBREAK (AH2)	6.7	40.0	9.0	4.0	97.7	35.0	92.3	72.0
AVENGER III (PPG-TF 308)	13.3	35.0	9.0	3.7	99.0	43.3	91.3	72.0
MONUMENT (PST-5SQB)	5.0	23.3	9.0	4.0	93.3	35.0	93.0	71.7
SYMPHONY (PPG-TF 305)	15.0	43.3	9.0	3.0	96.3	35.0	92.7	71.7
PST-5MINK	16.7	46.7	8.3	3.0	95.0	31.7	90.7	71.0
CAPITAN (DLFPS-321/3705)	16.7	40.0	8.7	3.7	97.7	38.3	93.7	70.7
EXTRAVAGANZA (PST-5MCMO)	20.0	35.0	8.3	3.0	91.7	33.3	91.7	70.7
FALCON SUPREME (RH1)	5.0	30.0	9.0	3.7	97.7	43.3	93.3	70.7
DLFPS-321/3707	11.7	31.7	9.0	3.7	99.0	41.7	91.0	70.3
ESTRENA	5.0	30.0	9.0	4.0	99.0	45.0	91.7	70.3
GRANDE 3	18.3	33.3	8.7	3.3	94.7	33.3	93.0	70.3
PST-5DZM	13.3	46.7	8.0	3.3	95.0	35.0	92.0	70.3
SETFM3	23.3	33.3	8.3	3.0	91.7	38.3	91.3	70.3
STEALTH (PPG-TF 238)	5.0	28.3	9.0	3.3	99.0	35.0	92.7	70.3
FIREHAWK SLT	15.0	45.0	9.0	3.7	99.0	38.3	94.0	70.0
SE5STAR	15.0	36.7	8.3	3.7	95.0	35.0	93.7	70.0
AST8218LM	15.0	33.3	8.0	3.7	90.0	40.0	90.3	69.7
FASTLANE (BY-TF-169)	21.7	43.3	9.0	3.7	97.7	38.3	91.7	69.7
ESCALADE	16.7	28.3	7.7	3.7	86.7	40.0	91.0	69.7
ESSENTIAL 2 (DLFPS-TF/3552)	8.3	26.7	9.0	4.0	97.7	43.3	92.3	69.7
PALOMAR	16.7	33.3	7.3	3.3	86.7	40.0	90.3	69.7
3B2	8.3	25.0	8.7	4.0	96.3	40.0	89.7	69.3
RDC	6.7	25.0	9.0	3.7	99.0	40.0	91.3	69.3
FAYETTE	5.0	25.0	9.0	3.7	96.3	38.3	91.3	69.0
BONFIRE (JS DTT)	6.7	41.7	8.7	3.0	96.3	35.0	91.7	68.0

TABLE 28C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER FALL TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2021 DATA  
TURFGRASS COVER UNIFORMITY RATINGS 1-9; 9=MOST DENSE, UNIFORM TURF COVER 2/ \*/

NAME	PERCENT POA ANNUA OCTOBER 2021		UNIFORMITY SEPTEMBER 16		FULLNESS OF CANOPY SEPTEMBER 17		PERCENT GREEN COVER SEPTEMBER 17	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
LIFEGUARD	6.7	28.3	8.7	3.7	94.7	36.7	93.3	68.0
HELLCAT GLR (PST-5E6)	13.3	36.7	8.7	4.0	96.3	36.7	94.0	68.0
CLASH (AH1)	8.3	36.7	9.0	2.7	97.7	30.0	93.3	67.7
LAFAYETTE (GO-AOMK)	11.7	35.0	9.0	3.3	99.0	36.7	87.7	67.7
GRO-PRO (SE53D2)	21.7	36.7	8.0	3.7	93.3	36.7	91.0	67.7
GLX REVIVE (PST-5GLBS)	10.0	38.3	8.3	3.0	91.7	33.3	93.3	67.7
BENTLEY (DLFPS-321/3679)	8.3	40.0	8.7	3.3	96.0	35.0	90.3	67.3
XANADU (JT 268)	10.0	35.0	8.7	3.0	99.0	36.7	91.7	67.3
BAR-FA8230	33.3	41.7	7.3	2.7	83.3	33.3	91.0	67.0
5LSS	8.3	28.3	9.0	3.3	99.0	38.3	93.3	66.7
DLFPS-TF/3553	10.0	35.0	9.0	3.0	97.7	35.0	90.7	66.7
RC4	5.0	40.0	9.0	3.3	99.0	38.3	90.0	66.7
TITANIUM G-LS (PPG-TF 255)	13.3	28.3	9.0	3.0	97.7	33.3	92.7	66.7
EXPANSE (PPG-TF 262)	11.7	36.7	9.0	3.0	99.0	33.3	90.3	66.3
TRIAD (PPG-TF 323)	16.7	38.3	8.7	3.3	99.0	41.7	90.7	66.3
ZION (BAR TF 134)	15.0	50.0	8.7	2.7	96.3	25.0	93.3	66.3
SETFM2	16.7	31.7	8.3	3.3	96.3	38.3	91.7	66.0
SR 8700 (TMT1)	18.3	36.7	9.0	3.0	97.7	31.7	92.0	66.0
DLFPS-321/3706	16.7	38.3	8.7	3.0	97.7	28.3	90.7	65.3
GALLARDO (DLFPS-TF/3550)	3.3	18.3	9.0	4.0	99.0	38.3	89.0	65.3
NATURALLY GREEN	13.3	26.7	8.0	3.0	90.0	35.0	90.7	65.0
BARNOBLE (BAR 9FE MAS)	35.0	56.7	7.3	2.3	73.3	25.0	91.0	64.7
DLFPS-321/3693	5.0	31.7	9.0	3.3	97.7	35.0	90.7	63.3
DLFPS-321/3695	15.0	36.7	9.0	3.3	97.7	33.3	93.0	63.0
K18-NSE	21.7	45.0	9.0	3.3	97.7	33.3	91.3	63.0
TYCOON (COL-TF-148)	15.0	31.7	9.0	3.0	97.7	31.7	90.3	62.0
BLADERUNNER 3 (DLFPS-321/3701)	11.7	26.7	9.0	3.3	99.0	28.3	93.0	61.3
NAI-FQZ-17	28.3	43.3	8.0	3.0	86.3	35.0	90.7	61.3
ATF2116	20.0	36.7	7.7	2.7	86.7	28.3	92.7	61.0
DLFPS-321/3694	8.3	36.7	9.0	2.3	99.0	26.7	92.7	61.0
NT-3	8.3	28.3	9.0	2.7	97.7	30.0	91.0	60.7
RAD-TF105	16.7	35.0	8.7	3.3	95.0	36.7	91.0	60.7
ATF1768	16.7	25.0	7.7	3.3	90.0	31.7	90.0	60.3
RAD-TF115 (TURBO SS)	20.0	35.0	8.7	2.7	94.7	28.3	87.7	59.0
SERENADE (PPG-TF 320)	6.7	26.7	8.7	3.0	97.7	36.7	92.0	59.0
BAR FA 8228	25.0	31.7	7.3	3.0	88.3	31.7	91.3	58.0
RHF	10.0	41.7	9.0	2.7	97.7	36.7	92.3	57.0
DYNAMITE G-LS (PPG-TF 254)	18.3	40.0	9.0	2.7	97.7	33.3	92.3	56.7
OG-WALK	20.0	35.0	7.0	2.0	86.7	30.0	90.3	54.0
TOUGH (NAI-TUE)	23.3	41.7	8.3	2.7	88.0	33.3	92.3	54.0
KENTUCKY-31	58.3	71.7	4.7	1.3	45.0	15.0	89.0	53.0
NAI-ST5	20.0	50.0	8.7	1.7	97.7	23.3	91.0	53.0
LSD VALUE	15.9	27.3	0.7	4.1	6.5	36.3	3.5	53.4
C.V. (%)	64.9	33.2	5.2	35.6	4.4	31.3	1.8	17.1

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 28D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	UNIFORMITY MAY 10		FULLNESS OF CANOPY MAY 10		UNIFORMITY JUNE 22		FULLNESS OF CANOPY JUNE 23		PERCENT GREEN COVER JUNE 20	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
PPG-TF 312	7.3	6.7	83.0	81.7	9.0	6.3	97.7	68.3	94.0	97.7
A-TF31	9.0	8.0	94.7	85.0	8.7	6.7	96.3	75.0	93.0	97.3
BONFIRE (JS DTT)	9.0	7.0	97.7	83.3	9.0	6.0	93.3	63.3	92.7	97.3
DRAGSTER	8.7	5.7	91.7	65.0	8.0	5.3	88.3	56.7	93.7	97.3
KENTUCKY-31	5.0	4.3	53.3	41.7	4.3	2.3	41.7	21.7	97.7	97.3
ORIOLE (PST-5BYOB)	9.0	7.0	96.3	76.7	8.7	6.7	95.0	63.3	95.0	97.3
VALSETZ (PPG-TF 257)	9.0	7.7	99.0	85.0	9.0	6.7	96.3	68.3	94.0	97.3
PRO GOLD	9.0	8.7	97.7	93.3	9.0	7.3	95.0	73.3	94.3	97.3
5LSS	9.0	8.3	99.0	90.0	9.0	7.3	99.0	75.0	94.0	97.0
ATF2116	8.0	5.7	86.7	61.7	8.0	5.0	90.0	50.0	93.3	97.0
BANDIT	8.7	7.0	94.7	81.7	8.7	6.7	95.0	65.0	93.3	97.0
BIRMINGHAM	9.0	7.7	94.7	76.7	8.3	6.3	95.0	68.3	94.3	97.0
BULLSEYE	9.0	7.7	96.0	85.0	8.7	6.7	95.0	66.7	92.3	97.0
DAYBREAK (AH2)	9.0	8.3	97.7	88.3	9.0	7.0	99.0	71.7	93.7	97.0
DEGAS (LTP-TF-111)	9.0	7.7	96.3	85.0	8.7	6.3	96.3	63.3	93.0	97.0
DLFPS-321/3706	8.7	6.3	97.7	76.7	9.0	6.0	94.7	65.0	94.3	97.0
DLFPS-321/3707	9.0	7.0	99.0	85.0	9.0	7.0	97.7	70.0	94.3	97.0
ENDGAME (3N1)	9.0	7.7	97.7	88.3	9.0	7.7	97.7	78.3	93.3	97.0
ESTRENA	9.0	8.3	99.0	85.0	9.0	7.0	97.7	71.7	94.0	97.0
FINELAWN SUPREME (RH3)	9.0	8.7	99.0	91.7	9.0	8.0	96.3	83.3	94.3	97.0
FASTLANE (BY-TF-169)	8.3	6.0	90.0	66.7	8.7	6.0	93.3	60.0	94.3	97.0
FIREHAWK SLT	9.0	7.0	97.7	75.0	9.0	5.7	96.3	65.0	93.3	97.0
GLX ACED (PST-5DART)	9.0	8.0	96.0	88.3	9.0	7.3	95.0	76.7	95.0	97.0
HELLCAT GLR (PST-5E6)	8.7	6.7	96.3	70.0	8.7	6.3	94.7	61.7	94.7	97.0
K18-NSE	9.0	6.7	93.0	70.0	9.0	7.0	99.0	73.3	94.0	97.0
FIERCE (K18-RS6)	9.0	8.7	99.0	93.3	9.0	6.7	97.7	75.0	94.3	97.0
KIZZLE (K18-ROE)	8.7	7.0	91.3	73.3	8.7	7.0	95.0	71.7	94.0	97.0
MONUMENT (PST-5SQB)	9.0	8.3	91.7	88.3	8.3	6.7	95.0	65.0	94.0	97.0
MOONDANCE GLX	8.3	8.0	94.7	88.3	8.7	6.7	94.7	63.3	93.7	97.0
BATTLE HAWK (NAI-ROS4)	9.0	8.0	97.7	75.0	9.0	6.7	97.7	75.0	94.3	97.0
OKEEFE (LTP-TF-122)	9.0	8.3	96.3	81.7	9.0	7.3	97.7	75.0	93.7	97.0
PPG-TF 231	9.0	8.3	99.0	86.7	9.0	7.3	97.7	80.0	93.3	97.0
PPG-TF 249	9.0	9.0	99.0	91.7	9.0	8.3	97.7	81.7	94.0	97.0
EXPANSE (PPG-TF 262)	9.0	8.0	97.7	81.7	9.0	6.7	97.7	66.7	94.0	97.0
SOUTHSIDE (PPG-TF 267)	9.0	8.0	99.0	88.3	9.0	7.7	99.0	85.0	93.3	97.0
PPG-TF 318	8.3	7.7	91.0	85.0	8.7	7.0	95.0	68.3	92.3	97.0
PPG-TF 337	8.7	7.3	96.0	83.3	9.0	7.0	99.0	73.3	94.3	97.0
PST-5DC24	8.7	7.3	96.0	83.3	8.7	6.3	93.3	65.0	92.7	97.0
PST-5DZM	9.0	6.7	97.7	78.3	9.0	6.0	95.0	66.7	92.7	97.0
PST-5MINK	9.0	7.7	96.3	75.0	8.3	6.3	93.3	60.0	93.7	97.0
PST-5TRN	9.0	7.7	96.3	83.3	9.0	7.0	94.7	71.7	94.7	97.0
RC4	9.0	6.7	99.0	81.7	9.0	6.3	96.3	66.7	93.7	97.0
RS1	9.0	8.3	96.3	83.3	9.0	6.0	97.7	65.0	94.0	97.0
SERENADE (PPG-TF 320)	9.0	7.3	96.3	88.3	9.0	6.7	95.0	71.7	93.7	97.0
SR 8700 (TMT1)	8.3	5.7	93.0	66.7	9.0	5.3	95.0	58.3	91.7	97.0



TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	UNIFORMITY		FULLNESS OF CANOPY		UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	MAY 10		MAY 10		JUNE 22		JUNE 23		JUNE 20	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
STEALTH (PPG-TF 238)	9.0	7.7	99.0	80.0	9.0	6.7	96.3	66.7	93.7	97.0
SYMPHONY (PPG-TF 305)	8.7	7.7	96.3	83.3	9.0	5.7	93.3	65.0	94.0	97.0
TANK (PPG-TF 338)	9.0	8.3	99.0	88.3	9.0	8.0	99.0	76.7	93.0	97.0
TITAN MAX (TF456)	9.0	7.3	94.7	71.7	9.0	6.7	96.3	70.0	94.0	97.0
XANADU (JT 268)	9.0	7.7	97.7	78.3	9.0	7.0	96.3	63.3	93.0	97.0
ZION (BAR TF 134)	9.0	6.3	99.0	70.0	9.0	6.3	97.7	61.7	94.3	97.0
CLASH (AH1)	9.0	7.7	99.0	83.3	9.0	6.7	99.0	68.3	93.0	96.7
BARNOBLE (BAR 9FE MAS)	7.3	5.3	78.3	56.7	7.3	3.7	90.0	41.7	93.3	96.7
BAR-FA8230	8.0	7.0	90.0	75.0	8.7	5.0	90.0	46.7	94.0	96.7
CAPITAN (DLFPS-321/3705)	8.3	6.7	90.0	76.7	9.0	6.0	93.3	66.7	93.3	96.7
TYCOON (COL-TF-148)	9.0	7.7	97.7	78.3	9.0	7.0	96.3	68.3	93.0	96.7
DLFPS-321/3693	9.0	7.7	97.7	88.3	9.0	6.3	99.0	68.3	92.7	96.7
DLFPS-321/3708	9.0	6.7	94.7	81.7	9.0	6.7	96.3	65.0	93.3	96.7
DLFPS-TF/3553	8.7	7.0	96.3	80.0	9.0	6.7	97.7	66.7	93.7	96.7
DYNAMITE G-LS (PPG-TF 254)	8.7	6.0	91.3	68.3	8.7	5.3	95.0	50.0	94.3	96.7
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	8.3	97.7	83.3	9.0	7.3	96.3	75.0	92.7	96.7
FIRECRACKER G-LS (PPG-TF 315)	9.0	7.3	94.3	78.3	8.7	7.0	97.7	81.7	94.3	96.7
FIRENZA II (PPG-TF 244)	9.0	7.7	94.7	85.0	8.7	6.3	96.3	68.3	93.7	96.7
GALACTIC (SESCR1)	8.3	6.7	94.7	70.0	9.0	6.0	97.7	65.0	94.3	96.7
PROVIDENCE (GO-RH20)	9.0	7.7	94.7	81.7	9.0	7.0	97.7	75.0	91.3	96.7
HEMI	8.7	8.3	97.7	85.0	8.7	7.0	93.3	73.3	92.7	96.7
HOUNDDOG NINE (DLFPS-321/3702)	9.0	7.7	97.7	88.3	9.0	7.3	97.7	78.3	94.0	96.7
JT 233	9.0	8.3	99.0	91.7	9.0	7.7	97.7	75.0	92.3	96.7
JT 517	8.7	7.7	97.7	81.7	8.7	6.0	93.3	60.0	92.7	96.7
LIFEGUARD	8.7	7.7	91.7	80.0	9.0	7.0	95.0	71.7	94.0	96.7
NT-3	9.0	6.3	95.0	71.7	9.0	6.0	96.3	63.3	93.0	96.7
PADRE 2	9.0	8.3	95.0	85.0	9.0	7.3	95.0	75.0	95.0	96.7
PARAMOUNT	9.0	8.0	94.7	85.0	9.0	7.3	97.7	75.0	94.0	96.7
PST-5GQ	9.0	7.7	94.3	83.3	9.0	7.3	97.7	70.0	94.7	96.7
EXTRAVAGANZA (PST-5MCMO)	8.7	7.3	93.0	78.3	8.3	6.7	93.3	66.7	94.3	96.7
TAR HEEL III (PST-5THM)	8.7	8.0	88.3	83.3	9.0	6.3	95.0	65.0	94.0	96.7
RACEWAY (DLFPS-321/3696)	9.0	8.3	99.0	86.7	9.0	7.3	96.3	76.7	93.3	96.7
RAPTOR LS (PPG-TF 336)	8.0	7.3	88.3	75.0	9.0	7.0	95.0	73.3	92.3	96.7
RDC	9.0	7.7	94.7	83.3	9.0	6.7	95.0	70.0	93.7	96.7
FALCON SUPREME (RH1)	9.0	7.3	97.7	86.7	9.0	6.3	95.0	68.3	92.7	96.7
ROVER (PPG-TF 306)	9.0	8.3	97.7	91.7	9.0	7.7	97.7	76.7	92.7	96.7
ROWDIER (DLFPS-321/3699)	7.7	6.3	86.0	78.3	8.0	6.3	83.3	70.0	94.0	96.7
SE5STAR	9.0	7.7	93.0	75.0	9.0	7.3	93.3	65.0	95.3	96.7
SPYDER 2LS (ZRC1)	9.0	8.0	89.7	88.3	8.7	8.0	91.3	78.3	93.3	96.7
TD2	8.7	7.7	99.0	81.7	9.0	7.0	99.0	73.3	93.0	96.7
TEACHER (PPG-TF 313)	8.3	7.3	89.7	81.7	9.0	6.7	96.3	68.3	94.0	96.7
TITAN GLX (TF445)	9.0	8.3	96.3	88.3	9.0	7.0	97.7	76.7	93.0	96.7
AVENGER III (PPG-TF 308)	9.0	8.0	97.7	80.0	9.0	7.0	96.3	70.0	92.3	96.3
BENTLEY (DLFPS-321/3679)	8.7	8.3	99.0	78.3	9.0	6.3	93.3	68.3	93.0	96.3
BULLSEYE LTZ	9.0	8.3	99.0	88.3	9.0	8.0	97.7	78.3	92.7	96.3

TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	UNIFORMITY MAY 10		FULLNESS OF CANOPY MAY 10		UNIFORMITY JUNE 22		FULLNESS OF CANOPY JUNE 23		PERCENT GREEN COVER JUNE 20	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
COPIOUS TF	8.3	6.7	89.3	78.3	8.7	6.7	94.7	66.7	93.3	96.3
DLFPS-321/3695	8.7	6.3	94.3	70.0	9.0	6.3	97.7	63.3	92.7	96.3
DLFPS-321/3703	9.0	7.7	99.0	78.3	8.7	6.7	99.0	68.3	94.3	96.3
ESCALADE	8.7	8.3	86.7	81.7	8.0	6.0	88.3	60.0	95.0	96.3
FAIRFIELD (SETF104)	9.0	6.3	96.0	71.7	8.7	7.0	94.7	71.7	93.7	96.3
FAYETTE	9.0	7.7	96.0	86.7	9.0	6.7	93.3	75.0	93.3	96.3
GRAND PRIX (FC15-01P)	8.7	7.7	93.0	78.3	8.3	6.7	90.0	66.7	95.0	96.3
K18-WB1	9.0	8.3	94.7	85.0	9.0	7.0	96.3	66.7	94.0	96.3
NAI-ST5	9.0	6.3	96.0	68.3	9.0	6.0	97.7	60.0	93.0	96.3
PALOMAR	8.0	7.3	85.0	75.0	8.3	6.0	86.7	65.0	94.3	96.3
GEM (PPG-TF 316)	9.0	8.0	97.7	88.3	9.0	7.0	96.3	70.0	93.7	96.3
GLX REVIVE (PST-5GLBS)	8.3	6.7	89.7	75.0	8.7	5.7	93.3	56.7	94.3	96.3
RAPTOR III	9.0	7.7	96.3	81.7	9.0	8.0	97.7	78.3	93.3	96.3
RHF	8.7	6.0	93.3	68.3	9.0	5.7	96.3	58.3	93.3	96.3
RHL2	9.0	8.0	97.7	88.3	9.0	8.3	99.0	80.0	93.0	96.3
TALLADEGA II (NAI-3N2)	9.0	8.0	97.7	75.0	9.0	6.7	96.3	68.3	93.7	96.3
TANGO	8.0	6.7	86.7	70.0	8.7	6.3	95.0	70.0	93.7	96.3
TITANIUM G-LS (PPG-TF 255)	9.0	7.0	95.0	73.3	9.0	6.0	95.0	68.3	93.0	96.3
TOUGH (NAI-TUE)	9.0	6.3	96.3	71.7	8.3	6.0	93.3	65.0	93.3	96.3
TRIAD (PPG-TF 323)	9.0	8.3	96.0	78.3	9.0	7.3	96.3	71.7	93.0	96.3
AST8118LM	8.7	7.7	93.0	80.0	8.7	7.3	93.3	71.7	92.0	96.0
ATF1768	9.0	6.7	93.3	73.3	8.7	5.7	91.7	60.0	94.3	96.0
BAR FA 8228	8.0	7.0	88.3	75.0	8.3	5.0	86.7	50.0	94.7	96.0
BLADERUNNER 3 (DLFPS-321/3701)	9.0	6.7	93.0	68.3	9.0	5.7	96.3	61.7	94.3	96.0
BRAVO 2	8.7	7.3	93.3	78.3	9.0	7.0	93.3	71.7	94.0	96.0
LAFAYETTE (GO-AOMK)	9.0	7.7	93.0	73.3	9.0	7.0	95.0	75.0	93.3	96.0
GRANDE 3	9.0	7.3	92.7	81.7	9.0	7.0	93.3	66.7	92.3	96.0
GRO-PRO (SE53D2)	9.0	7.0	91.7	80.0	8.7	6.0	93.3	65.0	94.7	96.0
NAI-FQZ-17	8.3	6.3	86.3	70.0	8.7	6.3	93.3	61.7	93.0	96.0
RAD-TF105	9.0	6.7	96.3	68.3	8.7	6.7	96.0	68.3	92.7	96.0
SETFM2	8.7	8.0	91.7	75.0	8.7	6.7	95.0	70.0	92.7	96.0
3B2	9.0	8.0	95.0	83.3	9.0	7.0	95.0	70.0	93.7	95.7
DLFPS-321/3694	9.0	7.0	97.7	76.7	8.7	6.0	96.3	53.3	91.7	95.7
LBF	8.7	7.3	94.3	81.7	8.3	5.7	95.0	60.0	92.7	95.7
OG-WALK	8.3	6.7	88.3	68.3	8.0	5.3	86.7	58.3	94.3	95.7
RAD-TF115 (TURBO SS)	8.7	6.7	93.0	73.3	9.0	5.7	95.0	63.3	92.3	95.7
RAD-TF131	9.0	7.3	93.3	75.0	8.7	7.3	96.3	76.7	92.3	95.7
SETFM3	8.3	6.7	89.7	71.7	8.3	5.7	93.3	60.0	93.7	95.7
TOPSHELF (BGR-TF3)	8.7	6.7	96.3	86.7	8.3	6.7	95.0	71.7	93.0	95.7
GALLARDO (DLFPS-TF/3550)	9.0	8.3	99.0	90.0	9.0	7.7	94.7	75.0	93.7	95.3
NATURALLY GREEN	9.0	6.7	90.0	73.3	8.3	5.7	91.7	53.3	93.7	95.3
AST8218LM	8.3	7.0	91.7	81.7	8.3	5.7	93.3	58.3	93.0	95.0
LSD VALUE	0.8	3.1	9.8	32.3	0.7	2.0	4.7	19.7	1.7	1.5
C.V. (%)	5.5	15.7	5.9	14.6	4.9	15.2	3.3	14.9	1.0	0.7

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

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

3/ GREEN COVER DETERMINED BY DIGITAL IMAGE ANALYSIS; AFTER 14 PASSES OF THE CTS (CADY TRAFFIC SIMULATOR) PASSES OF THE RWS (RUTGERS WEAR SIMULATOR).

TABLE 28D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 (CONT'D) GROWN UNDER SUMMER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
 2022 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	AUGUST 9		AUGUST 10		AUGUST 4	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SOUTHSIDE (PPG-TF 267)	9.0	7.7	99.0	83.3	95.0	96.7
ENDGAME (3N1)	9.0	6.7	97.7	66.7	95.7	96.3
FINELAWN SUPREME (RH3)	9.0	6.3	99.0	81.7	95.3	96.3
TITAN MAX (TF456)	8.7	6.0	95.0	66.7	95.0	96.3
PROVIDENCE (GO-RH20)	9.0	6.7	97.7	68.3	95.0	95.7
PRO GOLD	9.0	7.0	96.0	65.0	95.7	95.7
BULLSEYE LTZ	9.0	6.7	99.0	75.0	95.3	95.3
FAIRFIELD (SETF104)	8.7	6.7	95.0	61.7	95.3	95.3
JT 233	9.0	7.7	99.0	65.0	95.3	95.3
MOONDANCE GLX	8.3	5.7	90.0	56.7	95.3	95.0
AST8118LM	8.3	6.0	94.7	63.3	94.7	94.7
COPIOUS TF	8.3	5.0	93.3	56.7	93.3	94.7
PPG-TF 249	9.0	6.3	96.3	70.0	93.3	94.7
GEM (PPG-TF 316)	9.0	5.7	96.0	65.0	93.0	94.7
RAPTOR III	8.7	6.7	96.0	68.3	93.7	94.7
ROVER (PPG-TF 306)	9.0	7.3	97.7	73.3	94.0	94.7
TITAN GLX (TF445)	8.7	6.0	97.7	65.0	93.7	94.7
JT 517	8.7	5.0	93.3	55.0	95.0	94.3
PALOMAR	8.0	5.3	94.7	56.7	95.7	94.3
PARAMOUNT	9.0	6.3	99.0	58.3	93.7	94.3
BULLSEYE	8.0	5.7	96.3	60.0	95.7	94.0
DAYBREAK (AH2)	9.0	5.7	99.0	63.3	96.3	94.0
DRAGSTER	8.7	5.3	94.3	46.7	96.0	94.0
FIRENZA II (PPG-TF 244)	9.0	5.7	97.7	63.3	95.7	94.0
BATTLE HAWK (NAI-ROS4)	9.0	6.3	97.7	61.7	94.7	94.0
PST-5GQ	8.3	5.7	94.3	66.7	93.3	94.0
TAR HEEL III (PST-5THM)	8.7	5.7	94.7	63.3	95.3	94.0
RDC	9.0	6.0	97.7	63.3	94.7	94.0
SYMPHONY (PPG-TF 305)	8.7	5.0	94.7	55.0	95.0	94.0
BRAVO 2	8.7	4.7	95.0	56.7	94.7	93.7
STEALTH (PPG-TF 238)	9.0	6.0	97.7	55.0	94.0	93.7
BANDIT	8.0	5.0	93.3	50.0	94.7	93.3
GLX ACED (PST-5DART)	9.0	6.3	97.7	71.7	95.7	93.3
FIERCE (K18-RS6)	9.0	6.7	96.3	66.7	93.0	93.3
K18-WB1	9.0	6.0	94.7	61.7	94.3	93.3
PPG-TF 337	9.0	6.0	97.7	65.0	93.7	93.3
PST-5DC24	8.7	4.7	93.3	61.7	94.3	93.3
RAD-TF131	8.3	5.3	86.7	60.0	92.0	93.3
SETFM2	8.3	5.7	94.7	66.7	94.3	93.3
FIREHAWK SLT	9.0	6.3	96.3	51.7	93.7	93.0
ORIOLE (PST-5BYOB)	8.7	5.0	94.7	51.7	95.7	93.0
FALCON SUPREME (RH1)	9.0	5.7	94.7	70.0	94.3	93.0
BIRMINGHAM	8.3	5.7	95.0	53.3	95.7	92.7
FAYETTE	9.0	6.0	97.7	61.7	92.3	92.7
LIFEGUARD	8.7	5.7	94.7	50.0	94.7	92.7

TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SUMMER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	UNIFORMITY AUGUST 9		FULLNESS OF CANOPY AUGUST 10		PERCENT GREEN COVER AUGUST 4	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
VALSETZ (PPG-TF 257)	9.0	5.3	97.7	55.0	93.0	92.7
SERENADE (PPG-TF 320)	9.0	5.3	99.0	56.7	95.7	92.7
DLFPS-321/3707	8.7	6.0	94.3	60.0	93.3	92.3
HELLCAT GLR (PST-5E6)	8.7	5.3	94.7	56.7	92.7	92.3
HEMI	8.7	6.0	87.7	60.0	90.0	92.3
TOPSHELF (BGR-TF3)	8.0	6.3	96.3	63.3	93.7	92.3
A-TF31	8.3	6.0	94.7	56.7	92.7	92.0
DLFPS-321/3706	8.7	4.0	91.3	48.3	92.3	92.0
RAPTOR LS (PPG-TF 336)	9.0	6.0	93.0	58.3	92.7	92.0
RHF	9.0	4.7	99.0	45.0	96.0	92.0
3B2	9.0	5.7	93.3	60.0	95.0	91.7
DLFPS-321/3708	8.3	5.3	91.0	61.7	89.7	91.7
PST-5TRN	8.3	5.7	91.7	58.3	93.7	91.7
TALLADEGA II (NAI-3N2)	9.0	5.7	97.7	46.7	92.3	91.7
NATURALLY GREEN	8.3	4.7	94.7	53.3	95.3	91.3
ROWDIER (DLFPS-321/3699)	8.3	5.0	89.7	53.3	93.7	91.3
SETFM3	8.3	5.3	93.0	53.3	94.0	91.3
TANGO	8.7	5.3	94.7	60.0	95.0	91.0
TANK (PPG-TF 338)	9.0	6.3	91.0	66.7	93.3	91.0
XANADU (JT 268)	9.0	5.0	99.0	51.7	95.0	91.0
GALACTIC (SESCR1)	8.7	4.3	91.0	43.3	91.7	90.7
GALLARDO (DLFPS-TF/3550)	9.0	6.3	96.3	66.7	94.0	90.7
GRAND PRIX (FC15-01P)	8.3	5.0	96.3	55.0	94.7	90.7
GLX REVIVE (PST-5GLBS)	8.0	4.7	93.3	56.7	95.7	90.7
TITANIUM G-LS (PPG-TF 255)	9.0	5.7	97.7	61.7	94.7	90.7
KIZZLE (K18-ROE)	8.7	5.3	90.0	53.3	93.7	90.3
EXPANSE (PPG-TF 262)	9.0	5.3	99.0	55.0	94.7	90.3
PPG-TF 318	8.7	6.0	94.7	65.0	94.7	90.3
EXTRAVAGANZA (PST-5MCMO)	8.0	5.0	88.3	58.3	92.3	90.3
TYCOON (COL-TF-148)	9.0	5.0	93.3	51.7	89.0	90.0
DLFPS-321/3703	8.7	5.3	94.7	55.0	88.0	90.0
ESTRENA	9.0	6.3	97.7	61.7	95.7	90.0
LAFAYETTE (GO-AOMK)	8.7	5.7	92.7	55.0	93.3	90.0
OG-WALK	8.0	4.7	91.7	46.7	93.0	90.0
PST-5MINK	8.7	5.3	91.7	46.7	93.7	90.0
RAD-TF115 (TURBO SS)	8.3	4.7	86.7	41.7	92.3	90.0
ESCALADE	7.7	5.3	88.3	56.7	93.3	89.7
RHL2	8.7	6.0	91.0	65.0	91.7	89.7
SPYDER 2LS (ZRC1)	9.0	6.3	97.7	71.7	95.3	89.7
DEGAS (LTP-TF-111)	8.7	5.3	94.7	58.3	94.0	89.0
GRANDE 3	9.0	5.7	96.3	56.7	94.7	89.0
SE5STAR	8.0	5.0	91.3	43.3	93.3	89.0
TOUGH (NAI-TUE)	9.0	5.0	94.7	51.7	93.0	89.0
5LSS	8.7	5.7	93.0	55.0	93.7	88.7
FIRECRACKER G-LS (PPG-TF 315)	8.3	6.0	91.3	60.0	92.7	88.7

TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SUMMER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	AUGUST 9		AUGUST 10		AUGUST 4	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
ATF1768	8.0	4.7	89.7	48.3	95.0	88.3
CAPTAN (DLFPS-321/3705)	8.7	4.3	89.7	50.0	92.7	88.3
GRO-PRO (SE53D2)	8.3	5.7	94.7	55.0	94.3	88.3
MONUMENT (PST-5SQB)	8.7	6.0	93.3	58.3	94.3	88.3
OKEEFE (LTP-TF-122)	9.0	5.3	89.7	56.7	90.0	88.3
TD2	8.7	5.3	93.0	63.3	90.3	88.3
BLADERUNNER 3 (DLFPS-321/3701)	9.0	5.0	96.3	40.0	95.0	88.0
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	5.3	91.3	60.0	92.3	88.0
BAR-FA8230	8.3	4.0	91.7	46.7	94.7	87.7
HOUND OG NINE (DLFPS-321/3702)	8.7	5.7	84.7	58.3	89.3	87.7
NAI-FQZ-17	8.3	4.7	94.7	53.3	94.0	87.7
PPG-TF 231	9.0	6.3	99.0	63.3	91.0	87.7
PST-5DZM	8.7	5.7	93.3	51.7	92.7	87.7
RACEWAY (DLFPS-321/3696)	9.0	6.0	91.3	58.3	89.0	87.7
TEACHER (PPG-TF 313)	9.0	5.3	96.3	51.7	94.3	87.7
DLFPS-321/3693	9.0	5.3	97.7	53.3	94.3	87.3
TRIAD (PPG-TF 323)	8.7	5.3	91.0	58.3	91.7	87.0
AVENGER III (PPG-TF 308)	8.7	5.7	89.7	55.0	92.3	86.7
BARNOBLE (BAR 9FE MAS)	8.0	2.7	86.7	30.0	95.0	86.3
PPG-TF 312	8.7	6.0	88.3	55.0	93.7	86.3
DLFPS-TF/3553	9.0	5.7	94.7	55.0	92.3	86.0
LBF	8.3	4.7	91.7	43.3	93.3	86.0
PADRE 2	8.7	5.0	92.7	53.3	94.3	86.0
CLASH (AH1)	8.3	5.3	89.7	50.0	81.3	85.7
BAR FA 8228	8.0	3.3	88.3	41.7	95.3	85.3
KENTUCKY-31	5.0	1.0	36.7	13.3	95.0	85.3
RAD-TF105	9.0	5.0	91.7	51.7	92.3	85.0
DYNAMITE G-LS (PPG-TF 254)	9.0	3.7	97.7	38.3	94.0	84.7
NAI-ST5	9.0	4.0	93.3	38.3	90.3	84.3
RC4	8.7	5.0	96.0	48.3	72.3	84.3
RS1	8.7	5.7	89.7	55.0	88.7	82.3
DLFPS-321/3694	9.0	5.0	96.3	45.0	94.0	80.3
BENTLEY (DLFPS-321/3679)	8.7	4.7	91.3	50.0	89.7	80.0
BONFIRE (JS DTT)	8.7	5.3	93.0	53.3	93.3	79.0
NT-3	8.7	4.3	88.0	48.3	91.7	77.7
AST8218LM	8.3	3.7	91.7	40.0	94.0	77.0
ATF2116	8.0	3.7	91.7	41.7	93.3	77.0
K18-NSE	8.7	5.0	84.7	41.7	93.0	76.0
FASTLANE (BY-TF-169)	8.0	3.7	81.7	41.7	91.3	74.7
SR 8700 (TMT1)	8.3	4.0	91.7	43.3	91.3	74.3
ZION (BAR TF 134)	8.7	3.3	81.3	33.3	91.7	73.0
DLFPS-321/3695	8.7	4.3	89.7	41.7	91.7	70.3
LSD VALUE	0.7	3.8	10.3	40.0	22.9	33.3
C.V. (%)	5.0	25.3	6.5	26.0	5.2	9.4

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

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

3/ AFTER 28 PASSES OF THE CADY TRAFFIC SIMULATOR (CTS) AND 28 PASSES OF THE RUTGERS WEAR SIMULATOR (RWS).

TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER FALL TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT ANNUAL BLUEGRASS COVER		UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	NOVEMBER 1		SEPTEMBER 29		SEPTEMBER 30		SEPTEMBER 27	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
TALLADEGA II (NAI-3N2)	13.3	53.3	8.7	4.3	93.3	43.3	90.0	96.7
TITAN MAX (TF456)	11.7	36.7	8.7	6.3	91.3	61.7	90.3	96.7
ENDGAME (3N1)	5.0	31.7	9.0	6.0	99.0	66.7	91.3	96.3
JT 517	10.0	51.7	9.0	4.3	91.3	53.3	91.3	96.3
MOONDANCE GLX	6.7	45.0	9.0	5.0	90.0	51.7	93.0	96.3
PRO GOLD	5.0	36.7	9.0	5.3	94.7	60.0	93.7	96.3
TAR HEEL III (PST-5THM)	5.0	36.7	9.0	7.0	91.7	65.0	93.0	96.3
RAPTOR III	16.7	35.0	8.7	6.3	86.0	55.0	89.3	96.3
DAYBREAK (AH2)	5.0	43.3	9.0	4.0	96.3	46.7	92.7	96.0
FAIRFIELD (SETF104)	8.3	31.7	9.0	6.0	99.0	65.0	92.0	96.0
RDC	11.7	33.3	9.0	5.0	96.0	53.3	91.7	96.0
TITAN GLX (TF445)	11.7	33.3	8.7	6.0	91.3	55.0	91.7	96.0
BULLSEYE LTZ	5.0	31.7	9.0	6.3	97.7	60.0	90.7	95.7
DRAGSTER	15.0	61.7	8.7	2.7	88.3	35.0	92.0	95.7
FINELAWN SUPREME (RH3)	1.7	30.0	9.0	6.7	96.3	68.3	91.7	95.7
FIRENZA II (PPG-TF 244)	5.0	33.3	9.0	6.0	97.7	65.0	90.0	95.7
FIERCE (K18-RS6)	8.3	30.0	8.3	5.3	88.0	65.0	85.0	95.7
PALOMAR	18.3	36.7	9.0	5.3	90.0	50.0	92.7	95.7
SETFM3	11.7	38.3	8.7	5.0	94.7	50.0	90.0	95.7
STEALTH (PPG-TF 238)	3.3	33.3	8.0	5.3	85.0	53.3	88.7	95.7
BULLSEYE	13.3	28.3	8.7	5.7	93.3	53.3	91.3	95.3
PROVIDENCE (GO-RH20)	1.7	36.7	9.0	5.3	97.7	56.7	88.3	95.3
HELLCAT GLR (PST-5E6)	3.3	41.7	9.0	5.0	93.0	51.7	92.3	95.3
JT 233	6.7	35.0	9.0	6.0	93.3	65.0	90.0	95.3
NATURALLY GREEN	10.0	36.7	9.0	5.0	93.0	48.3	91.0	95.3
ORIOLE (PST-5BYOB)	11.7	43.3	9.0	4.7	96.3	53.3	91.7	95.3
PARAMOUNT	6.7	43.3	8.3	5.0	88.0	55.0	91.3	95.3
PPG-TF 249	1.7	31.7	8.7	5.3	88.3	61.7	90.3	95.3
SOUTHSIDE (PPG-TF 267)	5.0	28.3	9.0	7.0	96.0	70.0	90.0	95.3
PPG-TF 337	8.3	40.0	8.3	5.0	90.0	53.3	91.7	95.3
PST-5DC24	5.0	45.0	9.0	5.7	94.7	51.7	91.0	95.3
SE5STAR	11.7	45.0	8.7	3.7	91.3	45.0	93.0	95.3
SETFM2	10.0	38.3	9.0	5.3	91.7	58.3	90.7	95.3
BANDIT	13.3	50.0	9.0	4.7	91.7	50.0	92.0	95.0
BRAVO 2	8.3	38.3	9.0	5.7	93.0	60.0	91.3	95.0
DLFPS-321/3703	1.7	33.3	8.7	4.3	89.7	58.3	89.7	95.0
GALACTIC (SESCR1)	10.0	53.3	8.7	3.7	91.0	43.3	89.3	95.0
GRAND PRIX (FC15-01P)	13.3	36.7	9.0	4.3	88.3	50.0	92.7	95.0
PST-5GQ	3.3	28.3	9.0	5.7	90.0	60.0	91.7	95.0
RHF	6.7	51.7	9.0	4.3	99.0	41.7	92.0	95.0
TOPSHELF (BGR-TF3)	5.0	30.0	9.0	6.0	90.0	60.0	90.0	95.0
AST8118LM	6.7	33.3	9.0	5.7	93.3	60.0	91.0	94.7
TYCOON (COL-TF-148)	6.7	35.0	8.7	4.0	91.3	46.7	90.3	94.7
VALSETZ (PPG-TF 257)	6.7	41.7	8.0	4.3	80.0	56.7	89.0	94.7
RAD-TF131	10.0	35.0	8.3	5.0	91.7	51.7	87.7	94.7

TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER FALL TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT ANNUAL BLUEGRASS COVER NOVEMBER 1		UNIFORMITY SEPTEMBER 29		FULLNESS OF CANOPY SEPTEMBER 30		PERCENT GREEN COVER SEPTEMBER 27	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SERENADE (PPG-TF 320)	5.0	36.7	9.0	4.3	97.7	46.7	91.3	94.7
SYMPHONY (PPG-TF 305)	13.3	58.3	8.0	3.7	85.0	40.0	89.0	94.7
A-TF31	13.3	38.3	8.3	4.7	86.3	58.3	90.3	94.3
BIRMINGHAM	6.7	36.7	9.0	4.7	91.7	51.7	91.7	94.3
K18-WB1	11.7	26.7	8.0	4.7	80.0	53.3	90.0	94.3
BATTLE HAWK (NAI-ROS4)	5.0	51.7	8.7	4.7	97.7	50.0	91.3	94.3
OG-WALK	15.0	48.3	9.0	4.3	90.0	45.0	92.0	94.3
GLX REVIVE (PST-5GLBS)	10.0	46.7	9.0	3.3	91.7	38.3	92.3	94.3
EXTRAVAGANZA (PST-5MCMO)	6.7	33.3	8.7	4.3	88.3	48.3	91.7	94.3
PST-5TRN	1.7	30.0	8.7	5.7	93.0	63.3	92.7	94.3
COPIOUS TF	20.0	43.3	8.7	5.3	86.3	51.7	90.3	94.0
KIZZLE (K18-ROE)	10.0	38.3	8.3	4.7	84.7	45.0	91.0	94.0
PPG-TF 318	11.7	41.7	8.3	4.3	86.7	51.7	91.0	94.0
CLASH (AH1)	5.0	43.3	9.0	3.7	96.0	40.0	87.3	93.7
BAR-FA8230	11.7	38.3	8.3	4.0	85.0	41.7	92.0	93.7
CAPITAN (DLFPS-321/3705)	3.3	31.7	8.3	3.7	85.0	41.7	89.3	93.7
ESCALADE	13.3	31.7	8.7	4.7	85.0	48.3	92.7	93.7
FIREHAWK SLT	11.7	55.0	8.7	3.7	88.0	38.3	89.3	93.7
PST-5DZM	5.0	41.7	8.7	4.0	86.7	48.3	90.7	93.7
RAPTOR LS (PPG-TF 336)	6.7	33.3	8.3	5.3	89.7	55.0	91.0	93.7
TANGO	18.3	51.7	8.7	3.7	91.7	45.0	92.3	93.7
XANADU (JT 268)	6.7	40.0	9.0	4.7	96.0	50.0	88.7	93.7
5LSS	18.3	35.0	8.7	4.7	89.7	50.0	90.7	93.3
BLADERUNNER 3 (DLFPS-321/3701)	11.7	33.3	8.7	3.7	91.3	38.3	89.0	93.3
DLFPS-321/3707	6.7	36.7	8.3	3.7	83.0	50.0	89.0	93.3
DLFPS-321/3708	5.0	38.3	8.3	4.3	83.0	53.3	89.3	93.3
GRANDE 3	6.7	38.3	8.7	3.7	91.7	45.0	90.7	93.3
ATF1768	8.3	28.3	9.0	4.7	88.3	40.0	91.3	93.0
DEGAS (LTP-TF-111)	3.3	53.3	8.3	4.0	85.0	41.7	90.7	93.0
FIRECRACKER G-LS (PPG-TF 315)	11.7	31.7	8.3	4.7	83.3	55.0	88.7	93.0
GRO-PRO (SE53D2)	13.3	43.3	8.7	5.0	91.3	50.0	92.7	93.0
HEMI	3.3	35.0	8.0	5.0	82.7	50.0	90.0	93.0
ROVER (PPG-TF 306)	1.7	35.0	8.7	5.7	90.0	56.7	90.7	93.0
DLFPS-321/3706	5.0	48.3	8.7	2.7	91.3	35.0	90.3	92.7
FAYETTE	3.3	31.7	8.7	4.7	93.3	55.0	91.7	92.7
BAR FA 8228	5.0	38.3	9.0	4.0	88.3	38.3	93.3	92.3
NAI-FQZ-17	21.7	53.3	8.7	3.7	90.0	41.7	91.0	92.3
RC4	16.7	50.0	8.3	4.3	91.7	46.7	89.3	92.3
3B2	8.3	28.3	8.3	5.0	88.0	51.7	91.3	92.0
ESSENTIAL 2 (DLFPS-TF/3552)	11.7	23.3	8.0	5.7	78.0	55.0	86.7	92.0
KENTUCKY-31	43.3	83.3	5.3	1.0	38.3	13.3	95.0	92.0
MONUMENT (PST-5SQB)	1.7	30.0	9.0	4.3	90.0	50.0	93.0	92.0
GEM (PPG-TF 316)	5.0	50.0	8.0	4.0	81.7	45.0	84.3	92.0
RAD-TF115 (TURBO SS)	6.7	46.7	8.0	3.3	88.3	35.0	88.0	92.0
DLFPS-TF/3553	10.0	41.7	8.3	4.3	88.3	45.0	89.0	91.7

TABLE 28D.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER FALL TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2022 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	% BLUEGRASS COVER		UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
LAFAYETTE (GO-AOMK)	13.3	45.0	8.7	4.0	94.3	43.3	89.3	91.7
NAI-ST5	11.7	50.0	9.0	2.3	94.7	33.3	89.3	91.7
PADRE 2	6.7	30.0	8.7	4.7	91.3	48.3	90.0	91.7
EXPANSE (PPG-TF 262)	6.7	41.7	9.0	4.3	93.3	45.0	89.7	91.7
FALCON SUPREME (RH1)	3.3	33.3	8.7	4.7	86.7	51.7	89.0	91.7
LIFEGUARD	5.0	28.3	9.0	4.7	96.0	46.7	92.7	91.3
RHL2	3.3	36.7	7.7	3.7	79.7	41.7	88.7	91.3
SPYDER 2LS (ZRC1)	3.3	28.3	9.0	5.7	94.7	56.7	90.3	91.3
GALLARDO (DLFPS-TF/3550)	3.3	28.3	9.0	5.0	96.3	51.7	89.3	91.0
LBF	8.3	40.0	8.3	4.0	88.3	41.7	90.7	91.0
TEACHER (PPG-TF 313)	8.3	36.7	7.7	4.3	82.7	43.3	88.0	91.0
TOUGH (NAI-TUE)	13.3	61.7	8.7	3.3	89.7	30.0	90.0	91.0
OKEEFE (LTP-TF-122)	10.0	33.3	8.7	5.0	86.3	51.7	91.3	90.3
TITANIUM G-LS (PPG-TF 255)	6.7	36.7	8.3	4.0	83.3	41.7	90.0	90.3
TRIAD (PPG-TF 323)	3.3	40.0	8.7	4.0	84.3	50.0	88.7	90.3
BENTLEY (DLFPS-321/3679)	10.0	40.0	8.7	3.7	88.0	43.3	89.3	90.0
ROWDIER (DLFPS-321/3699)	26.7	51.7	8.3	4.0	83.0	38.3	90.3	90.0
DYNAMITE G-LS (PPG-TF 254)	15.0	41.7	8.3	3.7	89.7	40.0	92.3	89.7
RACEWAY (DLFPS-321/3696)	8.3	35.0	8.0	4.7	81.3	46.7	90.3	89.3
ESTRENA	3.3	36.7	8.3	4.3	92.7	51.7	88.3	89.0
AVENGER III (PPG-TF 308)	5.0	40.0	7.7	4.0	81.3	45.0	89.3	88.7
PPG-TF 231	8.3	28.3	8.0	5.3	83.3	58.3	89.7	88.3
RS1	6.7	45.0	7.7	3.0	71.3	36.7	89.3	88.0
BARNOBLE (BAR 9FE MAS)	16.7	66.7	8.0	1.7	78.3	21.7	92.7	87.7
HOUNDOG NINE (DLFPS-321/3702)	3.3	28.3	7.7	4.3	76.3	50.0	87.3	87.7
PPG-TF 312	15.0	48.3	6.3	3.3	58.3	36.7	84.0	87.7
TANK (PPG-TF 338)	3.3	33.3	8.3	5.3	86.0	51.7	89.3	87.3
AST8218LM	15.0	35.0	8.3	3.7	86.7	38.3	90.7	86.3
PST-5MINK	13.3	55.0	9.0	3.3	94.7	38.3	93.3	86.3
TD2	3.3	28.3	7.7	5.3	78.0	50.0	87.3	86.3
NT-3	3.3	31.7	8.7	3.7	86.3	36.7	90.0	85.7
BONFIRE (JS DTT)	6.7	43.3	8.7	4.0	88.0	41.7	90.7	84.3
ATF2116	13.3	46.7	8.3	3.3	81.7	33.3	91.3	84.0
DLFPS-321/3693	5.0	46.7	8.7	3.7	88.0	40.0	89.7	84.0
DLFPS-321/3694	10.0	53.3	8.7	2.7	86.3	28.3	91.0	84.0
ZION (BAR TF 134)	6.7	56.7	8.0	2.7	79.7	26.7	88.0	82.3
RAD-TF105	11.7	38.3	8.7	4.0	91.7	41.7	90.3	82.0
FASTLANE (BY-TF-169)	13.3	38.3	7.3	2.7	75.0	30.0	89.0	80.7
SR 8700 (TMT1)	11.7	40.0	8.0	3.0	79.7	35.0	90.0	80.3
DLFPS-321/3695	5.0	38.3	6.7	3.0	71.3	35.0	85.3	78.3
GLX ACED (PST-5DART)	1.7	28.3	8.7	5.3	88.0	61.7	92.7	77.0
K18-NSE	13.3	38.3	7.0	3.0	74.7	30.0	88.3	74.7
LSD VALUE	24.7	29.0	1.3	6.0	22.1	37.5	5.1	40.0
C.V. (%)	95.7	31.7	7.7	37.1	11.4	29.6	2.6	8.4

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

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

3/ AFTER 42 PASSES OF THE CADY TRAFFIC SIMULATOR (CTS) AND 42 PASSES OF THE RUTGERS WEAR SIMULATOR (RWS).



TABLE 28E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA

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

NAME	UNIFORMITY MAY 3		FULLNESS OF CANOPY MAY 3		BLUEGRASS COVER MAY 16		UNIFORMITY JUNE 29		FULLNESS OF CANOPY JUNE 29	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
FINELAWN SUPREME (RH3)	9.0	8.3	99.0	85.0	0.0	15.0	9.0	7.3	97.7	80.0
SOUTHSIDE (PPG-TF 267)	9.0	8.0	99.0	81.7	1.7	18.3	9.0	7.3	99.0	76.7
GALLARDO (DLFPS-TF/3550)	9.0	6.0	99.0	71.7	0.0	25.0	9.0	7.0	99.0	75.0
PPG-TF 231	8.3	5.7	93.0	71.7	1.7	21.7	7.3	6.7	97.7	75.0
BULLSEYE LTZ	9.0	6.7	96.3	75.0	1.7	16.7	9.0	6.7	99.0	73.3
TD2	8.7	6.7	97.7	75.0	0.0	25.0	9.0	6.3	99.0	73.3
SPYDER 2LS (ZRC1)	8.7	5.7	96.3	58.3	0.0	38.3	9.0	6.3	99.0	71.7
ESSENTIAL 2 (DLFPS-TF/3552)	8.7	6.3	88.3	71.7	1.7	20.0	9.0	6.3	96.3	70.0
JT 233	9.0	7.7	99.0	78.3	0.0	16.7	9.0	6.3	99.0	70.0
K18-WB1	9.0	7.0	93.0	73.3	1.7	25.0	9.0	6.3	99.0	70.0
PPG-TF 249	9.0	6.7	96.0	70.0	1.7	25.0	9.0	6.0	97.7	70.0
PST-5GQ	8.7	7.0	96.0	70.0	0.0	23.3	9.0	6.3	96.0	70.0
RHL2	8.3	4.0	93.3	55.0	1.7	25.0	8.7	5.3	96.0	70.0
ROVER (PPG-TF 306)	8.7	6.0	99.0	63.3	0.0	25.0	9.0	6.0	99.0	70.0
HEMI	8.7	6.7	94.7	71.3	0.0	20.0	8.7	6.0	96.3	68.3
HOUNDOG NINE (DLFPS-321/3702)	8.3	4.7	89.7	51.7	3.3	28.3	9.0	6.0	94.7	68.3
PPG-TF 337	8.7	5.3	97.7	60.0	1.7	35.0	9.0	5.3	99.0	68.3
TITANIUM G-LS (PPG-TF 255)	9.0	5.3	97.7	63.3	1.7	31.7	9.0	5.7	97.7	68.3
AST8118LM	9.0	6.0	94.7	73.3	0.0	21.7	9.0	6.0	96.3	66.7
ENDGAME (3N1)	9.0	6.0	96.0	65.0	1.7	26.7	9.0	5.7	97.7	66.7
FALCON SUPREME (RH1)	9.0	6.0	99.0	68.3	0.0	28.3	9.0	6.7	96.3	66.7
FAYETTE	9.0	5.7	97.7	61.7	1.7	23.3	9.0	6.0	96.3	66.7
FIRECRACKER G-LS (PPG-TF 315)	8.7	5.0	91.3	58.3	6.7	28.3	9.0	6.3	99.0	66.7
GLX ACED (PST-5DART)	8.7	7.0	93.0	71.7	0.0	13.3	9.0	6.3	99.0	66.7
PST-5TRN	9.0	7.0	94.7	66.7	3.3	28.3	9.0	6.7	97.7	66.7
SETFM2	8.7	5.0	96.0	60.0	1.7	26.7	8.7	5.7	94.7	66.7
TANK (PPG-TF 338)	9.0	6.0	96.0	65.0	1.7	30.0	9.0	6.3	99.0	66.7
TITAN GLX (TF445)	8.3	5.7	97.7	75.0	1.7	26.7	9.0	6.0	96.0	66.7
BULLSEYE	8.7	6.0	96.3	66.7	1.7	23.3	9.0	6.0	99.0	65.0
MONUMENT (PST-5SQB)	8.7	6.0	94.7	63.3	0.0	26.7	8.7	6.0	96.3	65.0
PRO GOLD	9.0	6.3	96.3	75.0	0.0	28.3	9.0	6.0	94.7	65.0
PROVIDENCE (GO-RH20)	9.0	5.7	96.0	63.3	0.0	35.0	9.0	6.0	99.0	65.0
RACEWAY (DLFPS-321/3696)	8.0	4.7	93.3	61.7	3.3	31.7	9.0	5.3	99.0	65.0
RAD-TF131	9.0	5.3	97.7	63.3	1.7	31.7	9.0	5.3	97.7	65.0
BRAVO 2	9.0	4.3	94.7	46.7	3.3	43.3	8.7	4.0	97.7	63.3
DLFPS-321/3703	8.3	4.3	96.0	58.3	1.7	30.0	9.0	5.7	97.7	63.3
EXPANSE (PPG-TF 262)	9.0	5.0	99.0	63.3	1.7	31.7	9.0	5.7	99.0	63.3
FIRENZA II (PPG-TF 244)	9.0	5.7	99.0	68.3	0.0	25.0	9.0	6.3	99.0	63.3
LIFEGUARD	9.0	6.0	97.7	60.0	3.3	26.7	9.0	5.0	97.7	63.3
PADRE 2	9.0	6.3	97.7	68.3	1.7	21.7	9.0	6.3	97.7	63.3
RAPTOR III	8.7	5.0	90.0	63.3	3.3	26.7	9.0	5.0	99.0	63.3
RAPTOR LS (PPG-TF 336)	8.7	5.7	93.0	58.3	3.3	30.0	8.7	5.3	97.7	63.3
RDC	8.7	5.3	99.0	60.0	3.3	33.3	9.0	5.3	97.7	63.3
STEALTH (PPG-TF 238)	9.0	6.0	99.0	68.3	1.7	30.0	9.0	6.0	99.0	63.3
3B2	9.0	5.3	97.7	53.3	1.7	28.3	9.0	5.3	99.0	61.7

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT ANNUAL									
	UNIFORMITY MAY 3		FULLNESS OF CANOPY MAY 3		BLUEGRASS COVER MAY 16		UNIFORMITY JUNE 29		FULLNESS OF CANOPY JUNE 29	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
FAIRFIELD (SETF104)	9.0	6.0	96.0	66.7	0.0	28.3	9.0	5.3	97.7	61.7
FIERCE (K18-RS6)	8.7	6.0	91.3	66.7	0.0	25.0	9.0	5.0	99.0	61.7
OKEEFE (LTP-TF-122)	8.7	5.0	95.0	51.7	3.3	35.0	9.0	5.7	99.0	61.7
PARAMOUNT	8.7	6.0	93.0	68.3	0.0	26.7	9.0	6.0	96.3	61.7
TEACHER (PPG-TF 313)	7.7	5.3	91.3	60.0	0.0	28.3	9.0	5.3	96.3	61.7
TITAN MAX (TF456)	8.7	6.0	91.3	68.3	1.7	25.0	9.0	5.3	94.7	61.7
TOPSHELF (BGR-TF3)	8.7	5.0	91.7	60.0	6.7	23.3	9.0	5.3	93.3	61.7
XANADU (JT 268)	9.0	4.3	96.0	53.3	0.0	35.0	9.0	5.0	99.0	61.7
AST8218LM	8.3	4.3	90.0	58.3	3.3	26.7	8.7	4.7	91.3	60.0
AVENGER III (PPG-TF 308)	8.3	4.3	91.7	53.3	1.7	30.0	9.0	5.0	99.0	60.0
CLASH (AH1)	8.7	4.0	96.0	48.3	1.7	43.3	9.0	4.7	99.0	60.0
TYCOON (COL-TF-148)	8.3	5.3	93.3	58.3	1.7	35.0	9.0	5.3	99.0	60.0
COPIOUS TF	8.3	5.7	91.0	53.3	1.7	31.7	8.7	4.7	94.3	60.0
DAYBREAK (AH2)	9.0	5.0	99.0	60.0	0.0	35.0	9.0	5.7	99.0	60.0
ESTRENA	8.7	5.0	96.0	60.0	0.0	33.3	9.0	5.7	99.0	60.0
GRANDE 3	9.0	5.3	94.7	55.0	0.0	35.0	9.0	5.0	94.7	60.0
RAD-TF105	8.7	4.0	96.3	55.0	3.3	28.3	9.0	5.3	96.0	60.0
5LSS	9.0	5.7	96.0	61.7	3.3	36.7	9.0	5.7	97.7	58.3
BIRMINGHAM	9.0	5.3	91.7	58.3	1.7	31.7	9.0	5.7	96.0	58.3
BONFIRE (JS DTT)	7.7	4.0	90.0	48.3	1.7	33.3	9.0	4.0	97.7	58.3
DLFPS-321/3707	8.3	5.3	88.0	60.0	5.0	31.7	9.0	4.7	97.7	58.3
GRO-PRO (SE53D2)	8.7	5.3	96.0	56.7	1.7	31.7	8.7	4.0	97.7	58.3
KIZZLE (K18-ROE)	8.7	5.3	91.7	55.0	1.7	33.3	8.7	4.7	97.7	58.3
GEM (PPG-TF 316)	8.3	4.7	89.7	55.0	1.7	38.3	9.0	5.7	96.0	58.3
PPG-TF 318	8.0	4.3	91.0	56.7	1.7	31.7	8.7	5.0	96.0	58.3
TAR HEEL III (PST-5THM)	8.7	5.7	88.0	73.3	3.3	31.7	8.7	5.0	91.7	58.3
RS1	8.7	5.0	91.3	56.7	0.0	28.3	9.0	5.3	96.3	58.3
ATF1768	8.3	5.3	96.0	63.3	0.0	23.3	9.0	4.7	96.3	56.7
BLADERUNNER 3 (DLFPS-321/3701)	8.0	4.0	88.3	51.7	3.3	36.7	9.0	6.3	97.7	56.7
CAPITAN (DLFPS-321/3705)	9.0	5.0	93.3	51.7	3.3	38.3	9.0	5.3	95.0	56.7
DLFPS-TF/3553	8.3	4.0	88.3	53.3	3.3	40.0	8.7	4.3	96.3	56.7
EXTRAVAGANZA (PST-5MCMO)	8.7	4.7	93.3	58.3	0.0	33.3	9.0	5.0	96.0	56.7
LAFAYETTE (GO-AOMK)	8.7	4.3	93.3	43.3	1.7	40.0	9.0	4.7	95.0	56.7
NATURALLY GREEN	9.0	5.3	93.0	60.0	1.7	33.3	9.0	4.3	93.3	56.7
SERENADE (PPG-TF 320)	8.7	4.3	97.7	53.3	0.0	35.0	9.0	4.7	96.3	56.7
VALSETZ (PPG-TF 257)	8.3	3.0	93.0	43.3	0.0	41.7	9.0	4.7	97.7	56.7
DLFPS-321/3708	8.7	5.0	94.7	56.7	1.7	30.0	9.0	4.3	99.0	55.0
DYNAMITE G-LS (PPG-TF 254)	8.3	4.0	89.7	55.0	0.0	40.0	9.0	5.0	97.7	55.0
GRAND PRIX (FC15-01P)	8.3	5.3	90.0	63.3	0.0	31.7	8.7	5.3	88.3	55.0
RAD-TF115 (TURBO SS)	9.0	4.0	96.0	50.0	1.7	31.7	9.0	4.7	99.0	55.0
SE5STAR	8.7	5.3	91.7	58.3	1.7	31.7	9.0	4.7	95.0	55.0
A-TF31	9.0	5.0	96.0	63.3	3.3	26.7	9.0	5.0	94.7	53.3
ESCALADE	8.3	6.3	93.0	70.0	1.7	25.0	8.3	4.7	90.0	53.3
GLX REVIVE (PST-5GLBS)	8.3	4.7	90.0	61.7	0.0	28.3	9.0	4.3	96.3	53.3
HELLCAT GLR (PST-5E6)	8.7	5.0	96.0	63.3	3.3	45.0	9.0	4.3	97.7	53.3

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT ANNUAL									
	UNIFORMITY MAY 3		FULLNESS OF CANOPY MAY 3		BLUEGRASS COVER MAY 16		UNIFORMITY JUNE 29		FULLNESS OF CANOPY JUNE 29	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
NT-3	9.0	5.0	99.0	60.0	0.0	26.7	9.0	4.0	99.0	53.3
PALOMAR	8.3	5.3	90.0	55.0	1.7	33.3	8.0	4.3	86.7	53.3
ROWDIER (DLFPS-321/3699)	6.7	3.7	79.3	48.3	1.7	46.7	8.0	3.7	91.0	53.3
SETFM3	8.7	4.3	90.0	43.3	3.3	35.0	8.7	4.3	90.0	53.3
TRIAD (PPG-TF 323)	8.0	4.7	86.7	51.7	0.0	35.0	9.0	5.0	97.7	53.3
BATTLE HAWK (NAI-ROS4)	8.7	3.3	94.7	43.3	0.0	46.7	9.0	4.0	99.0	51.7
JT 517	9.0	4.7	90.0	55.0	3.3	38.3	8.7	3.3	91.7	51.7
LBF	8.7	5.7	93.3	63.3	3.3	31.7	9.0	4.3	97.7	51.7
TANGO	8.0	5.0	88.0	43.3	5.0	45.0	8.3	4.3	97.7	51.7
BENTLEY (DLFPS-321/3679)	8.7	4.3	96.0	40.0	3.3	46.7	9.0	4.3	97.7	50.0
DEGAS (LTP-TF-111)	8.7	4.0	93.3	43.3	3.3	46.7	9.0	4.0	97.7	50.0
MOONDANCE GLX	9.0	5.7	90.0	55.0	1.7	28.3	8.7	4.0	97.7	50.0
PPG-TF 312	7.7	4.0	78.3	48.3	8.3	43.3	8.7	3.7	94.7	50.0
PST-5DZM	9.0	6.0	97.7	66.7	0.0	25.0	9.0	4.7	97.7	50.0
RC4	8.7	3.7	97.7	48.3	0.0	38.3	9.0	5.0	99.0	50.0
RHF	8.7	3.3	96.0	40.0	0.0	41.7	9.0	3.7	99.0	50.0
TALLADEGA II (NAI-3N2)	8.7	3.3	94.3	46.7	5.0	51.7	9.0	4.0	99.0	50.0
BANDIT	9.0	5.0	94.7	51.7	3.3	40.0	9.0	3.7	97.7	48.3
DLFPS-321/3695	8.3	4.7	94.3	50.0	3.3	35.0	9.0	4.0	97.7	48.3
FASTLANE (BY-TF-169)	6.3	3.7	75.0	46.7	3.3	33.3	8.7	3.7	91.3	48.3
GALACTIC (SESCR1)	8.3	4.0	91.7	46.7	1.7	45.0	9.0	4.3	99.0	48.3
NAI-ST5	8.7	3.3	94.3	43.3	0.0	46.7	9.0	3.3	99.0	48.3
ORIOLE (PST-5BYOB)	8.7	5.7	96.0	58.3	1.7	43.3	8.7	4.3	96.0	48.3
DLFPS-321/3693	8.7	4.3	94.7	46.7	0.0	41.7	9.0	4.0	97.7	46.7
PST-5DC24	8.7	4.3	93.0	50.0	1.7	41.7	9.0	3.7	96.3	46.7
SYMPHONY (PPG-TF 305)	8.3	3.0	89.7	46.7	5.0	50.0	9.0	3.7	96.0	46.7
BAR-FA8230	8.3	3.7	93.0	48.3	5.0	48.3	8.3	4.0	88.3	45.0
DLFPS-321/3694	8.7	3.3	94.3	36.7	0.0	51.7	9.0	3.7	99.0	45.0
SR 8700 (TMT1)	7.7	3.7	84.7	45.0	5.0	40.0	9.0	3.7	93.0	45.0
ATF2116	8.7	3.7	88.0	40.0	1.7	50.0	8.7	4.0	93.0	43.3
BAR FA 8228	8.0	3.0	90.0	43.3	1.7	38.3	8.3	4.0	90.0	43.3
FIREHAWK SLT	9.0	4.0	97.7	51.7	6.7	46.7	9.0	3.0	97.7	43.3
NAI-FQZ-17	8.3	4.3	90.0	40.0	10.0	53.3	8.7	4.0	91.3	43.3
DLFPS-321/3706	8.7	3.0	90.0	41.7	3.3	45.0	9.0	3.0	99.0	41.7
K18-NSE	7.3	4.0	83.3	45.0	3.3	40.0	9.0	4.3	94.7	41.7
PST-5MINK	8.3	3.3	91.7	41.7	1.7	58.3	9.0	3.7	93.3	41.7
ZION (BAR TF 134)	8.3	2.7	91.7	31.7	6.7	65.0	8.7	3.3	94.3	41.7
TOUGH (NAI-TUE)	8.7	2.3	86.7	31.7	10.0	61.7	8.0	3.3	84.7	38.3
DRAGSTER	6.7	3.3	78.0	40.0	5.0	50.0	8.3	3.3	89.7	36.7
OG-WALK	8.0	4.0	90.0	51.7	6.7	35.0	8.0	5.3	85.0	36.7
BARNOBLE (BAR 9FE MAS)	7.7	2.3	81.7	28.3	13.3	60.0	7.7	2.0	80.0	28.3
KENTUCKY-31	3.0	1.0	28.3	5.0	31.7	88.3	3.0	1.0	30.0	10.0
LSD VALUE	1.1	4.5	11.8	36.2	5.8	27.1	0.6	3.4	6.5	27.7
C.V. (%)	7.6	34.6	7.5	27.8	141.7	38.8	4.6	29.3	4.5	22.7

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

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

3/ GREEN COVER DETERMINED BY DIGITAL IMAGE ANALYSIS; AFTER 14 PASSES OF THE CTS (CADY TRAFFIC SIMULATOR) PASSES OF THE RWS (RUTGERS WEAR SIMULATOR).

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	UNIFORMITY		FULLNESS OF CANOPY	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
FINELAWN SUPREME (RH3)	9.0	5.0	96.0	58.3
SOUTHSIDE (PPG-TF 267)	9.0	5.7	99.0	55.0
GLX ACED (PST-5DART)	9.0	5.0	96.0	51.7
HEMI	8.7	5.0	99.0	51.7
3B2	9.0	4.0	99.0	46.7
PPG-TF 231	9.0	5.0	99.0	46.7
PRO GOLD	8.7	4.7	96.0	46.7
TANK (PPG-TF 338)	9.0	4.0	99.0	46.7
GRAND PRIX (FC15-01P)	8.3	4.7	88.3	45.0
HOUNDOG NINE (DLFPS-321/3702)	9.0	4.3	96.0	45.0
FIERCE (K18-RS6)	8.7	5.0	96.0	45.0
PPG-TF 249	7.3	4.3	81.3	45.0
PROVIDENCE (GO-RH20)	9.0	4.7	97.7	45.0
ROVER (PPG-TF 306)	8.3	4.3	88.0	45.0
TD2	8.7	4.7	86.0	45.0
TITAN GLX (TF445)	9.0	4.7	99.0	45.0
GRO-PRO (SE53D2)	9.0	4.0	94.7	43.3
RACEWAY (DLFPS-321/3696)	9.0	3.7	96.3	43.3
JT 233	9.0	3.7	99.0	41.7
PPG-TF 318	9.0	4.0	89.3	41.7
PPG-TF 337	8.3	3.7	88.0	41.7
PST-5GQ	8.7	4.7	92.7	41.7
SPYDER 2LS (ZRC1)	9.0	3.7	99.0	41.7
STEALTH (PPG-TF 238)	9.0	4.3	96.0	41.7
DEGAS (LTP-TF-111)	9.0	3.3	99.0	40.0
ESSENTIAL 2 (DLFPS-TF/3552)	8.7	3.7	94.3	40.0
FIRECRACKER G-LS (PPG-TF 315)	7.0	4.3	78.0	40.0
MONUMENT (PST-5SQB)	9.0	4.0	95.0	40.0
RAPTOR III	9.0	4.0	94.7	40.0
RAPTOR LS (PPG-TF 336)	6.7	3.0	78.0	40.0
AST8118LM	8.7	4.7	91.3	38.3
BULLSEYE	9.0	4.0	94.7	38.3
AST8218LM	8.7	3.7	94.7	36.7
BULLSEYE LTZ	8.7	3.7	93.0	36.7
DLFPS-321/3707	9.0	4.0	96.0	36.7
HELLCAT GLR (PST-5E6)	9.0	3.3	97.7	36.7
OKEEFE (LTP-TF-122)	7.7	4.0	86.0	36.7
PST-5DC24	9.0	3.0	99.0	36.7
RAD-TF131	8.7	3.0	97.7	36.7
RHL2	9.0	3.3	99.0	36.7
TITAN MAX (TF456)	9.0	4.0	99.0	36.7
BRAVO 2	9.0	3.7	96.0	35.0
FAIRFIELD (SETF104)	7.3	2.7	81.3	35.0
ROWDIER (DLFPS-321/3699)	8.7	3.0	91.0	35.0
SERENADE (PPG-TF 320)	9.0	3.7	97.7	35.0

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	UNIFORMITY AUGUST 16		FULLNESS OF CANOPY AUGUST 16	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
AVENGER III (PPG-TF 308)	9.0	3.3	99.0	33.3
BIRMINGHAM	8.0	3.7	90.0	33.3
CAPITAN (DLFPS-321/3705)	6.7	3.0	69.7	33.3
DLFPS-321/3703	8.7	4.3	88.3	33.3
ESCALADE	8.3	3.7	88.3	33.3
GLX REVIVE (PST-5GLBS)	9.0	3.0	96.0	33.3
KIZZLE (K18-ROE)	9.0	4.0	96.0	33.3
PADRE 2	9.0	2.7	97.7	33.3
PST-5DZM	8.7	3.3	97.7	33.3
PST-5TRN	8.3	3.7	93.0	33.3
RDC	9.0	3.0	97.7	33.3
SETFM3	8.3	3.3	93.0	33.3
TOPSHELF (BGR-TF3)	8.7	3.7	94.7	33.3
DLFPS-321/3693	9.0	3.3	99.0	31.7
FALCON SUPREME (RH1)	8.7	3.3	94.7	31.7
FAYETTE	8.7	3.0	94.7	31.7
K18-WB1	9.0	3.0	97.7	31.7
LIFEGUARD	9.0	2.3	94.7	31.7
MOONDANCE GLX	8.7	3.0	93.3	31.7
NT-3	9.0	3.0	96.0	31.7
ORIOLE (PST-5BYOB)	8.0	3.7	93.0	31.7
PALOMAR	7.3	3.0	78.3	31.7
A-TF31	8.7	2.7	93.0	30.0
ESTRENA	9.0	2.3	97.7	30.0
SR 8700 (TMT1)	9.0	2.7	96.0	30.0
VALSETZ (PPG-TF 257)	8.3	3.0	92.7	30.0
BONFIRE (JS DTT)	9.0	3.7	96.3	28.3
COPIOUS TF	8.7	3.0	91.0	28.3
DLFPS-321/3695	9.0	2.7	99.0	28.3
DLFPS-TF/3553	9.0	3.0	97.7	28.3
GALLARDO (DLFPS-TF/3550)	9.0	3.3	99.0	28.3
GRANDE 3	9.0	2.3	99.0	28.3
GEM (PPG-TF 316)	8.7	2.3	89.7	28.3
TAR HEEL III (PST-5THM)	7.7	2.3	78.0	28.3
RS1	9.0	2.7	99.0	28.3
SETFM2	8.0	3.0	88.0	28.3
TANGO	8.3	3.0	86.7	28.3
TEACHER (PPG-TF 313)	8.7	2.3	93.0	28.3
TITANIUM G-LS (PPG-TF 255)	9.0	3.0	99.0	28.3
ATF2116	8.7	2.7	88.3	26.7
BENTLEY (DLFPS-321/3679)	9.0	3.3	97.7	26.7
CLASH (AH1)	8.7	2.7	91.3	26.7
DLFPS-321/3708	9.0	3.3	92.7	26.7
EXPANSE (PPG-TF 262)	9.0	2.7	99.0	26.7
FIREHAWK SLT	9.0	2.7	99.0	26.7
LBF	9.0	3.3	96.3	26.7

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	UNIFORMITY AUGUST 16		FULLNESS OF CANOPY AUGUST 16	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
OG-WALK	8.0	2.3	83.3	26.7
PARAMOUNT	9.0	2.0	99.0	26.7
XANADU (JT 268)	9.0	2.7	99.0	26.7
BAR-FA8230	8.0	2.7	83.3	25.0
DYNAMITE G-LS (PPG-TF 254)	9.0	2.3	93.0	25.0
ENDGAME (3N1)	9.0	2.7	99.0	25.0
EXTRAVAGANZA (PST-5MCMO)	8.0	3.0	81.7	25.0
FASTLANE (BY-TF-169)	9.0	2.0	93.0	25.0
NATURALLY GREEN	8.0	3.0	85.0	25.0
RAD-TF105	6.7	2.3	70.0	25.0
RC4	9.0	2.3	94.7	25.0
SE5STAR	6.7	2.3	79.7	25.0
TRIAD (PPG-TF 323)	8.0	2.0	89.3	25.0
5LSS	9.0	3.0	99.0	23.3
BAR FA 8228	8.0	2.0	85.0	23.3
BATTLE HAWK (NAI-ROS4)	9.0	2.7	96.3	23.3
GALACTIC (SESCR1)	8.7	2.7	94.3	23.3
PST-5MINK	9.0	2.7	93.0	23.3
RHF	9.0	2.3	97.7	23.3
ATF1768	8.7	2.0	91.7	21.7
BANDIT	7.7	1.7	83.3	21.7
DRAGSTER	8.0	2.0	86.3	21.7
FIRENZA II (PPG-TF 244)	8.3	3.0	96.0	21.7
JT 517	8.7	2.3	93.0	21.7
K18-NSE	9.0	2.0	94.3	21.7
LAFAYETTE (GO-AOMK)	9.0	2.0	91.3	21.7
NAI-FQZ-17	8.0	1.3	83.3	21.7
DLFPS-321/3706	9.0	1.7	96.0	20.0
NAI-ST5	9.0	2.0	96.3	20.0
TALLADEGA II (NAI-3N2)	9.0	2.3	99.0	20.0
BLADERUNNER 3 (DLFPS-321/3701)	8.3	2.7	91.3	18.3
PPG-TF 312	9.0	1.7	99.0	18.3
TYCOON (COL-TF-148)	8.7	2.0	94.3	16.7
DAYBREAK (AH2)	9.0	1.3	99.0	16.7
RAD-TF115 (TURBO SS)	7.3	1.0	81.3	16.7
BARNOBLE (BAR 9FE MAS)	8.0	1.7	89.7	15.0
DLFPS-321/3694	8.7	1.7	99.0	15.0
SYMPHONY (PPG-TF 305)	8.3	2.0	96.0	15.0
TOUGH (NAI-TUE)	8.3	2.0	94.7	15.0
ZION (BAR TF 134)	7.7	2.0	83.0	15.0
KENTUCKY-31	4.0	1.0	35.0	10.0
LSD VALUE	1.7	2.9	18.4	25.1
C.V. (%)	9.9	40.6	10.2	37.7

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

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

3/ GREEN COVER DETERMINED BY DIGITAL IMAGE ANALYSIS; AFTER 14 PASSES OF THE CTS (CADY TRAFFIC SIMULATOR) PASSES OF THE RWS (RUTGERS WEAR SIMULATOR).

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA

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

NAME	PERCENT ANNUAL BLUEGRASS COVER		UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	NOVEMBER 9		OCTOBER 6		OCTOBER 6		OCTOBER 6	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
BRAVO 2	20.0	53.3	8.3	4.7	85.0	35.0	94.3	75.3
GRO-PRO (SE53D2)	30.0	50.0	8.3	5.3	78.3	45.0	95.7	72.7
PST-5DC24	28.3	58.3	8.7	3.0	81.7	31.7	94.7	72.3
BARNOBLE (BAR 9FE MAS)	58.3	66.7	6.0	1.3	51.7	13.3	96.0	69.3
BIRMINGHAM	18.3	41.7	7.7	3.7	84.7	38.3	91.0	68.7
COPIOUS TF	36.7	50.0	7.3	3.3	74.7	31.7	95.7	66.7
TAR HEEL III (PST-5THM)	20.0	40.0	7.7	4.7	73.3	45.0	95.0	66.3
PROVIDENCE (GO-RH20)	6.7	45.0	8.7	3.3	97.7	33.3	92.7	65.7
HELLCAT GLR (PST-5E6)	15.0	48.3	9.0	4.3	90.0	43.3	95.0	65.3
ORIOLE (PST-5BYOB)	13.3	48.3	8.3	4.0	91.7	40.0	95.3	64.7
DLFPS-321/3703	10.0	45.0	8.3	3.0	86.7	28.3	92.7	64.3
GLX REVIVE (PST-5GLBS)	18.3	55.0	8.3	2.7	90.0	31.7	96.0	64.0
BAR-FA8230	40.0	46.7	7.3	3.7	71.7	33.3	95.0	61.7
SETFM3	35.0	50.0	7.0	2.3	60.0	25.0	91.0	61.3
KIZZLE (K18-ROE)	13.3	50.0	9.0	2.3	93.0	31.7	95.3	61.0
PST-5DZM	25.0	63.3	7.0	2.0	76.7	15.0	92.3	60.7
AST8218LM	26.7	43.3	7.7	3.0	70.0	30.0	91.7	60.3
MONUMENT (PST-5SQB)	10.0	33.3	9.0	4.7	83.3	38.3	96.3	60.3
PRO GOLD	16.7	41.7	8.3	3.7	85.0	36.7	92.7	60.3
GRAND PRIX (FC15-01P)	25.0	50.0	6.3	3.3	66.7	36.7	85.3	60.0
KENTUCKY-31	75.0	66.7	2.7	1.3	25.0	8.3	97.3	60.0
GALACTIC (SESCR1)	18.3	58.3	8.7	2.3	94.7	25.0	93.7	59.3
AST8118LM	11.7	38.3	7.3	4.0	76.7	31.7	91.3	59.0
LBF	23.3	56.7	8.0	2.7	80.0	28.3	91.7	59.0
PALOMAR	38.3	48.3	6.3	2.3	61.7	25.0	92.7	59.0
PST-5GQ	13.3	51.7	8.0	3.7	85.0	36.7	94.0	59.0
TOPSHELF (BGR-TF3)	23.3	35.0	7.7	3.3	70.0	35.0	94.3	59.0
PST-5TRN	20.0	36.7	8.7	3.0	88.3	36.7	95.7	58.7
ATF2116	30.0	60.0	8.3	2.7	81.7	25.0	92.3	58.3
BULLSEYE	33.3	40.0	7.0	3.7	79.7	35.0	91.3	58.3
TANGO	30.0	58.3	7.0	2.3	71.7	21.7	94.7	58.3
A-TF31	28.3	45.0	7.3	2.0	75.0	21.7	90.3	57.7
BAR FA 8228	30.0	40.0	7.7	2.7	68.3	23.3	94.7	57.3
BENTLEY (DLFPS-321/3679)	21.7	58.3	8.3	3.0	78.3	26.7	91.7	57.3
MOONDANCE GLX	21.7	43.3	7.7	3.3	81.7	31.7	96.3	56.3
NATURALLY GREEN	18.3	41.7	7.7	3.7	83.3	36.7	92.7	56.3
TD2	15.0	43.3	8.0	2.7	83.3	25.0	91.7	56.3
PST-5MINK	21.7	68.3	7.3	2.3	63.3	20.0	86.0	56.0
EXTRAVAGANZA (PST-5MCMO)	20.0	43.3	8.0	3.7	78.3	35.0	94.0	55.7
PPG-TF 337	15.0	53.3	7.7	2.7	80.0	23.3	87.7	55.7
NAI-ST5	25.0	51.7	9.0	2.7	86.3	25.0	93.0	55.3
DLFPS-321/3708	20.0	50.0	8.3	2.3	83.3	30.0	94.3	54.3
RAPTOR III	18.3	46.7	8.3	2.7	88.3	28.3	93.3	54.3
ROWDIER (DLFPS-321/3699)	31.7	51.7	7.7	2.3	76.7	23.3	95.3	53.3
BONFIRE (JS DTT)	15.0	60.0	8.7	2.0	86.3	20.0	94.7	53.0

TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT ANNUAL							
	BLUEGRASS COVER		UNIFORMITY		FULLNESS OF CANOPY		PERCENT GREEN COVER	
	NOVEMBER 9		OCTOBER 6		OCTOBER 6		OCTOBER 6	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DLFPS-321/3707	20.0	48.3	8.0	2.3	84.7	18.3	93.7	53.0
TITAN MAX (TF456)	21.7	53.3	7.3	1.7	78.3	23.3	93.3	53.0
NAI-FQZ-17	35.0	51.7	7.0	3.0	60.0	25.0	87.0	52.7
SR 8700 (TMT1)	26.7	66.7	7.7	1.7	76.7	16.7	91.3	52.3
ESCALADE	35.0	50.0	7.0	2.3	63.3	20.0	89.7	52.0
BATTLE HAWK (NAI-ROS4)	15.0	46.7	8.7	2.0	94.3	20.0	95.3	51.7
JT 517	23.3	46.7	7.0	2.7	76.7	28.3	92.0	51.7
STEALTH (PPG-TF 238)	8.3	50.0	8.3	3.7	89.3	30.0	93.0	51.7
RC4	11.7	45.0	8.7	2.3	81.3	16.7	94.0	51.3
SOUTHSIDE(PPG-TF 267)	3.3	36.7	8.3	3.3	91.0	30.0	91.3	51.3
CLASH (AH1)	18.3	40.0	8.7	2.7	86.3	21.7	93.3	51.0
CAPITAN (DLFPS-321/3705)	16.7	48.3	6.7	2.3	66.7	25.0	92.3	50.7
DLFPS-321/3693	13.3	51.7	8.3	3.0	84.7	21.7	92.7	50.0
DYNAMITE G-LS (PPG-TF 254)	25.0	51.7	8.3	2.0	84.7	21.7	95.7	50.0
FIREHAWK SLT	28.3	65.0	7.7	1.3	81.7	8.3	95.0	49.0
PPG-TF 318	20.0	56.7	7.0	1.7	71.7	6.7	92.7	49.0
TALLADEGA II (NAI-3N2)	21.7	55.0	8.0	1.7	81.3	11.7	90.3	49.0
GLX ACED (PST-5DART)	10.0	35.0	8.3	3.3	90.0	28.3	96.3	48.7
XANADU (JT 268)	16.7	50.0	7.7	1.7	79.7	20.0	81.7	48.7
FIRECRACKER G-LS (PPG-TF 315)	21.7	41.7	6.3	1.7	66.7	23.3	82.3	48.3
DEGAS (LTP-TF-111)	26.7	75.0	6.0	1.3	66.7	8.3	68.7	48.0
K18-NSE	31.7	53.3	7.0	1.3	81.3	11.7	89.0	48.0
PPG-TF 231	21.7	36.7	8.3	3.0	88.0	23.3	92.3	47.7
HEMI	13.3	45.0	7.0	3.7	66.7	30.0	79.7	47.3
TANK (PPG-TF 338)	8.3	43.3	7.7	2.7	81.7	20.0	84.0	47.3
FIERCE (K18-RS6)	11.7	45.0	8.0	2.0	88.3	23.3	96.0	47.0
JT 233	13.3	35.0	8.0	2.7	88.3	26.7	93.7	46.7
LIFEGUARD	13.3	40.0	8.0	3.7	83.3	28.3	95.3	46.7
DRAGSTER	36.7	60.0	6.3	1.3	66.7	11.7	90.0	46.3
ATF1768	20.0	35.0	8.3	2.7	85.0	28.3	94.7	46.0
FAIRFIELD (SETF104)	20.0	43.3	6.3	2.3	65.0	26.7	89.0	46.0
TITANIUM G-LS (PPG-TF 255)	11.7	46.7	8.3	2.7	93.3	18.3	95.3	46.0
BULLSEYE LTZ	11.7	41.7	8.3	3.0	93.3	26.7	95.3	45.7
K18-WB1	23.3	46.7	7.7	2.3	75.0	25.0	92.7	45.7
VALSETZ (PPG-TF 257)	15.0	50.0	8.0	3.0	86.3	21.7	93.3	45.3
GRANDE 3	23.3	53.3	7.0	1.7	75.0	16.7	90.0	44.0
DLFPS-321/3706	21.7	61.7	8.7	1.3	91.3	18.3	95.7	43.0
ZION (BAR TF 134)	23.3	55.0	8.0	2.3	76.7	23.3	95.0	43.0
FALCON SUPREME (RH1)	6.7	48.3	8.0	1.3	83.0	15.0	93.0	42.7
SE5STAR	23.3	43.3	6.3	2.0	68.3	25.0	82.0	42.7
PPG-TF 249	13.3	41.7	6.7	4.0	75.0	25.0	83.7	42.3
TITAN GLX (TF445)	15.0	43.3	7.0	1.7	76.7	21.7	92.3	42.0
FINELAWN SUPREME (RH3)	3.3	43.3	8.0	2.3	78.3	18.3	87.7	41.7
RHF	20.0	56.7	6.3	1.7	65.0	18.3	78.7	41.7
DLFPS-TF/3553	21.7	53.3	8.3	2.0	73.3	16.7	94.3	41.0
AVENGER III (PPG-TF 308)	21.7	46.7	8.7	1.7	91.7	20.0	93.0	40.7



TABLE 28E.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SPRING TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/  
2023 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT ANNUAL BLUEGRASS COVER							
	NOVEMBER 9		UNIFORMITY OCTOBER 6		FULLNESS OF CANOPY OCTOBER 6		PERCENT GREEN COVER OCTOBER 6	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
ENDGAME (3N1)	15.0	38.3	7.0	1.3	76.3	10.0	90.3	40.3
RACEWAY (DLFPS-321/3696)	20.0	46.7	7.3	2.3	78.3	21.7	87.3	40.3
SPYDER 2LS (ZRC1)	11.7	36.7	8.7	3.0	92.7	25.0	95.3	40.3
TOUGH (NAI-TUE)	41.7	53.3	7.3	1.7	68.3	15.0	92.3	40.3
ESTRENA	13.3	50.0	6.3	1.0	61.7	6.7	69.7	40.0
OG-WALK	41.7	40.0	7.0	2.3	63.3	26.7	89.3	40.0
RAD-TF115 (TURBO SS)	23.3	51.7	4.7	1.3	55.0	11.7	76.7	40.0
RS1	16.7	50.0	8.0	1.3	83.3	11.7	87.3	39.7
SETFM2	21.7	41.7	6.7	1.7	60.0	20.0	81.7	39.7
BANDIT	21.7	41.7	7.7	2.0	78.3	21.7	93.3	39.3
PADRE 2	8.3	36.7	8.7	3.0	94.7	28.3	95.7	39.3
FASTLANE (BY-TF-169)	28.3	51.7	6.7	1.7	66.7	13.3	85.0	38.7
BLADERUNNER 3 (DLFPS-321/3701)	16.7	45.0	8.7	2.0	88.0	16.7	95.3	38.0
SYMPHONY (PPG-TF 305)	25.0	45.0	8.3	1.7	88.3	16.7	95.7	38.0
FIRENZA II (PPG-TF 244)	8.3	31.7	8.0	1.3	88.0	20.0	93.7	37.3
PARAMOUNT	13.3	53.3	8.0	1.3	75.0	11.7	92.3	36.7
EXPANSE (PPG-TF 262)	13.3	51.7	7.0	1.3	79.7	11.7	77.3	36.3
OKEEFE (LTP-TF-122)	13.3	50.0	7.3	2.0	73.3	16.7	91.7	36.3
SERENADE (PPG-TF 320)	11.7	48.3	8.7	2.3	88.0	16.7	93.3	36.0
TYCOON (COL-TF-148)	13.3	38.3	8.7	1.7	86.3	8.3	93.0	35.7
DLFPS-321/3694	18.3	63.3	7.0	1.3	71.7	10.0	84.0	34.7
TRIAD (PPG-TF 323)	20.0	43.3	7.0	1.3	70.0	13.3	83.3	34.7
3B2	20.0	46.7	8.3	2.0	86.7	18.3	95.3	34.3
LAFAYETTE (GO-AOMK)	21.7	46.7	7.3	2.3	81.7	18.3	85.3	34.0
PPG-TF 312	36.7	48.3	6.7	1.0	61.7	10.0	87.0	33.7
RDC	18.3	46.7	7.3	1.3	76.7	16.7	87.7	33.3
ROVER (PPG-TF 306)	8.3	43.3	7.0	2.0	75.0	13.3	86.7	33.0
GALLARDO (DLFPS-TF/3550)	8.3	33.3	7.7	2.0	81.3	20.0	80.7	32.7
DLFPS-321/3695	16.7	43.3	8.3	1.3	85.0	13.3	95.3	32.3
FAYETTE	11.7	35.0	6.7	1.7	68.3	11.7	80.3	32.3
RAD-TF105	23.3	41.7	6.0	1.3	63.3	15.0	76.7	32.3
NT-3	13.3	48.3	7.0	1.3	71.7	13.3	86.0	32.0
RAD-TF131	20.0	40.0	5.7	1.7	60.0	18.3	70.0	31.7
HOUNDG NINE (DLFPS-321/3702)	11.7	33.3	8.0	2.0	91.7	20.0	94.0	31.3
RAPTOR LS (PPG-TF 336)	18.3	48.3	5.0	1.0	55.0	10.0	65.0	31.3
5LSS	23.3	48.3	6.0	1.7	58.3	11.7	69.7	29.7
TEACHER (PPG-TF 313)	16.7	45.0	6.7	1.3	71.3	10.0	87.3	29.7
GEM (PPG-TF 316)	13.3	38.3	8.0	1.0	75.0	11.7	92.0	29.3
RHL2	10.0	45.0	6.0	1.3	61.7	8.3	77.7	28.7
DAYBREAK (AH2)	10.0	43.3	8.3	1.3	89.3	6.7	93.7	27.0
ESSENTIAL 2 (DLFPS-TF/3552)	18.3	30.0	8.3	2.0	90.0	16.7	95.0	25.0
LSD VALUE	21.4	54.0	2.5	2.3	26.9	22.3	24.5	49.1
C.V. (%)	55.7	28.8	16.0	47.1	17.4	49.4	10.3	35.0

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

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

3/ GREEN COVER DETERMINED BY DIGITAL IMAGE ANALYSIS; AFTER 14 PASSES OF THE CTS (CADDY TRAFFIC SIMULATOR) PASSES OF THE RWS (RUTGERS WEAR SIMULATOR).

TABLE 29.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SHADE AT AMES, IA 1/  
2018-23 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/																	
	GENETIC SPRING		LEAF		DENSITY RATINGS			PERCENT GROUND COVER			QUALITY RATINGS							
	COLOR	GREENUP	TEXTURE	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
GRANDE 3	6.7	6.4	8.0	6.0	6.4	6.0	66.7	70.0	50.0	5.9	6.6	6.1	6.2	6.5	6.3	6.2	6.1	6.3
PST-5TRN	6.8	6.4	7.3	5.8	6.5	5.8	46.7	80.0	46.7	6.1	6.7	6.1	6.2	6.6	6.3	6.1	6.0	6.3
STEALTH (PPG-TF 238)	6.4	6.6	6.0	5.7	6.1	5.8	83.3	85.0	50.0	6.1	6.5	6.3	6.4	6.5	6.3	6.1	5.9	6.3
XANADU (JT 268 )	6.7	6.3	6.7	5.8	5.9	5.8	70.0	70.0	73.0	6.2	6.5	6.1	6.3	6.5	6.3	6.2	6.0	6.3
AVENGER III (PPG-TF 308)	7.0	6.3	5.3	5.9	6.2	5.8	66.7	78.3	53.3	6.0	6.5	6.0	6.3	6.4	6.3	6.0	5.9	6.2
BRAVO 2	6.8	6.6	7.0	5.8	6.1	5.7	76.7	81.7	50.0	5.9	6.4	6.1	6.3	6.3	6.6	6.0	5.8	6.2
COPIOUS TF	6.8	6.5	6.0	5.8	5.8	5.6	63.3	81.7	53.3	5.7	6.4	6.1	6.3	6.7	6.5	6.1	6.0	6.2
FAIRFIELD (SETF104)	6.2	6.6	7.7	5.5	6.3	6.4	73.3	71.7	46.7	6.1	6.4	5.8	6.1	6.3	6.5	6.5	6.2	6.2
FAYETTE	6.8	6.0	7.0	5.5	5.7	5.8	70.0	70.0	50.0	5.9	6.3	6.3	6.2	6.5	6.3	6.1	6.1	6.2
PADRE 2	6.8	6.2	7.3	5.5	5.3	5.7	66.7	75.0	53.3	6.0	6.3	6.1	6.1	6.3	6.2	6.2	5.9	6.2
PPG-TF 231	6.6	6.5	6.7	5.9	5.8	5.8	63.3	65.0	43.3	5.9	6.6	5.9	6.1	6.3	6.3	6.2	5.9	6.2
PST-5GQ	6.3	6.3	7.3	5.3	5.8	5.8	60.0	68.3	50.0	5.9	6.3	6.3	6.2	6.1	6.2	6.2	6.2	6.2
RACEWAY (DLFPS-321/3696)	6.6	6.8	6.7	5.4	5.8	5.7	40.0	56.7	33.3	6.4	6.8	5.9	5.9	6.4	6.3	6.2	6.0	6.2
RAD-TF 115 (TURBO SS)	6.3	6.8	5.7	5.4	5.5	6.1	70.0	63.3	46.7	6.1	6.4	6.1	6.2	6.4	6.5	6.2	6.0	6.2
ROVER (PPG-TF 306)	6.7	6.5	7.0	5.2	5.7	5.2	80.0	78.3	43.3	6.1	6.4	6.4	6.2	6.4	6.2	6.0	5.8	6.2
VALSETZ (PPG-TF 257)	6.5	6.6	6.3	5.6	5.8	6.1	66.7	75.0	36.7	5.9	6.4	5.9	6.2	6.5	6.5	6.3	6.1	6.2
BIRMINGHAM	6.8	6.6	6.0	5.3	5.6	5.8	70.0	68.3	53.3	6.1	6.5	5.7	5.9	6.3	6.4	6.0	6.1	6.1
DRAGSTER	6.8	6.7	7.3	5.1	6.2	6.1	63.3	66.7	43.3	5.7	6.1	6.1	6.1	6.4	6.3	5.9	5.8	6.1
DYNAMITE G-LS (PPG-TF 254)	6.8	5.5	6.0	5.3	6.1	5.5	56.7	65.0	38.3	6.0	6.2	6.1	6.1	6.2	6.3	5.8	6.0	6.1
EXTRAVAGANZA (PST-5MCMO)	6.4	6.3	6.0	5.4	6.2	5.6	56.7	61.7	40.0	5.8	6.5	5.9	6.2	6.3	6.3	6.1	5.9	6.1
FINELAWN SUPREME (RH3)	6.5	6.8	7.0	5.1	5.2	6.3	70.0	71.7	50.0	5.9	6.3	5.6	6.1	6.3	6.3	6.1	5.8	6.1
GLX REVIVE (PST-5GLBS)	6.8	6.1	6.7	5.9	5.8	5.3	66.7	75.0	43.3	5.8	6.5	5.9	6.1	6.5	6.2	6.0	5.7	6.1
HELLCAT GLR (PST-5E6)	6.5	6.3	6.3	5.8	6.3	5.7	56.7	65.0	43.3	5.5	6.4	6.2	6.1	6.3	6.1	5.9	5.8	6.1
JT 517	6.5	6.3	7.3	5.7	5.1	5.7	50.0	43.3	46.7	5.8	6.6	6.2	6.1	6.1	6.2	6.1	5.7	6.1
MOONDANCE GLX	6.6	6.5	6.0	5.7	5.7	5.3	80.0	81.7	43.3	5.7	6.6	5.9	6.3	6.5	6.3	6.0	5.7	6.1
ORIOLE (PST-5BYOB)	6.8	6.6	6.3	5.7	6.3	6.0	66.7	73.3	50.0	6.1	6.5	5.8	6.0	6.4	6.3	6.1	6.1	6.1
PRO GOLD	6.7	6.2	5.3	5.6	5.8	5.7	63.3	73.3	56.7	5.8	6.5	6.2	6.2	6.4	6.2	6.0	5.7	6.1
PROVIDENCE (GO-RH20)	6.8	6.4	6.7	5.5	6.1	6.3	66.7	68.3	50.0	6.0	6.1	6.2	6.1	6.3	6.0	6.1	5.9	6.1
RAD-TF105	6.8	6.5	6.7	5.8	5.7	5.8	56.7	55.0	50.0	6.0	6.3	6.2	6.0	6.4	6.0	5.7	5.9	6.1
ROWDIER (DLFPS-321/3699)	6.8	6.8	6.7	5.7	6.1	5.6	63.3	60.0	41.7	6.0	6.3	6.0	5.9	6.3	6.2	5.9	5.9	6.1
SYMPHONY (PPG-TF 305)	6.4	6.6	5.7	5.2	5.8	5.9	50.0	60.0	40.0	5.9	6.1	6.2	5.9	6.3	6.3	5.9	5.8	6.1
BANDIT	6.8	6.4	6.0	5.3	5.8	5.8	53.3	63.3	36.7	5.9	6.3	5.9	6.3	6.1	6.1	5.7	5.6	6.0
BLADERUNNER 3 (DLFPS-321/3701)	7.2	6.1	6.3	5.7	5.4	5.7	66.7	75.0	53.3	5.7	6.3	5.9	6.1	6.2	6.4	5.8	5.7	6.0
BULLSEYE	6.8	5.7	6.7	4.8	5.9	5.7	58.3	65.0	48.3	6.3	6.1	5.7	5.9	6.1	5.8	5.8	5.8	6.0
CAPITAN (DLFPS-321/3705)	6.5	6.2	6.0	5.8	5.6	5.9	56.7	71.7	50.0	5.5	6.3	5.7	5.9	6.5	6.5	5.9	5.9	6.0
DLFPS-321/3703	7.1	6.5	6.7	5.6	6.3	5.4	40.0	50.0	26.7	5.9	6.3	5.9	6.1	6.2	6.0	5.7	5.7	6.0
FALCON SUPREME (RH1)	6.8	6.3	6.7	6.0	6.2	6.0	63.3	65.0	36.7	6.0	6.4	5.5	5.9	6.3	6.1	6.1	5.6	6.0
FIRENZA II (PPG-TF 244)	6.7	6.3	6.7	6.3	6.1	5.6	60.0	66.7	40.0	5.9	6.3	5.9	6.1	6.3	6.1	5.8	5.9	6.0
GLX ACED (PST-5DART)	6.9	6.2	6.3	5.8	5.5	5.3	70.0	76.7	46.7	5.7	6.4	5.6	6.0	6.5	6.5	6.0	5.6	6.0
JT 233	6.6	6.7	5.7	5.3	5.7	6.4	70.0	70.0	43.3	5.7	6.4	5.9	5.9	6.1	6.4	5.9	5.7	6.0
K18-NSE	6.6	5.8	7.0	5.7	5.3	5.7	66.7	73.3	53.3	5.5	6.3	6.0	5.7	6.2	6.2	5.9	5.7	6.0
PST-5DZM	6.6	6.4	6.3	5.4	5.3	5.7	70.0	71.7	33.3	5.6	6.4	5.8	5.7	6.5	6.1	6.1	5.7	6.0
PST-5MINK	6.6	6.4	6.7	5.1	6.0	5.5	56.7	71.7	46.7	6.1	6.2	6.1	6.3	6.1	6.1	5.9	5.5	6.0
RC4	6.6	6.0	6.3	5.6	5.4	5.2	66.7	68.3	56.7	6.0	6.2	6.1	5.8	6.2	6.1	5.7	5.7	6.0
TYCOON (COL-TF-148)	6.6	5.8	6.7	5.9	5.5	5.8	53.3	58.3	46.7	5.7	6.5	5.8	5.7	6.1	6.1	5.9	5.9	6.0

TABLE 29.  
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SHADE AT AMES, IA 1/  
2018-23 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/									QUALITY RATINGS								
	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY RATINGS			PERCENT	GROUND COVER										
				SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
BATTLE HAWK (NAI-ROS4)	6.6	5.9	7.0	5.0	5.7	5.8	60.0	65.0	43.3	5.3	5.9	6.2	6.0	6.2	6.1	5.9	5.7	5.9
BONFIRE (JS DTT)	6.3	6.5	6.3	5.3	5.5	5.6	53.3	53.3	30.0	5.7	6.1	6.1	5.9	6.2	5.9	5.9	5.5	5.9
DEGAS (LTP-TF-111)	7.0	5.9	6.3	6.0	5.5	5.6	63.3	71.7	46.7	5.7	6.3	5.9	5.8	6.3	6.1	5.9	5.6	5.9
GALACTIC (SESCR1)	6.4	6.4	6.3	5.4	5.8	5.4	60.0	53.3	36.7	5.6	6.2	5.7	5.8	6.0	6.1	5.8	5.7	5.9
LIFEGUARD	6.0	6.3	6.3	5.1	5.3	5.5	48.3	60.0	38.3	5.7	6.2	6.2	6.0	6.1	5.9	5.6	5.7	5.9
MONUMENT (PST-5SQB)	6.8	5.8	5.3	5.3	5.8	5.6	53.3	61.7	36.7	5.6	6.1	5.9	5.9	6.3	6.3	5.8	5.3	5.9
OKEEFE (LTP-TF-122)	6.7	5.8	7.0	5.4	5.3	5.3	66.7	75.0	50.0	5.7	6.2	6.0	5.7	6.1	6.1	5.9	5.7	5.9
PST-5DC24	7.2	6.2	4.3	5.7	5.6	5.7	46.7	60.0	40.0	5.6	6.0	5.8	6.0	6.5	6.1	5.9	5.5	5.9
RAPTOR LS (PPG-TF 336)	6.4	5.6	6.0	4.9	5.6	5.8	61.7	63.3	51.7	5.8	6.1	5.9	6.1	6.1	5.9	5.8	5.3	5.9
TALLADEGA II (NAI-3N2)	6.8	6.3	7.0	5.5	5.8	5.6	56.7	65.0	46.7	5.6	6.1	5.9	6.1	6.0	6.0	5.9	5.3	5.9
TANGO	6.2	6.4	4.3	5.9	5.5	5.3	70.0	65.0	50.0	5.5	6.2	5.9	6.1	6.1	6.1	5.9	5.5	5.9
TAR HEEL III (PST-5THM)	6.4	6.4	6.3	5.8	5.8	5.6	46.7	50.0	36.7	5.4	6.3	5.7	6.0	6.2	6.1	5.7	5.5	5.9
TOUGH (NAI-TUE)	6.9	5.3	5.3	5.7	6.1	5.3	50.0	43.3	40.0	5.6	6.0	6.1	6.1	5.9	5.8	5.7	5.7	5.9
3B2	6.8	6.3	5.7	5.3	6.3	5.8	50.0	46.7	26.7	5.5	5.9	5.7	5.7	6.1	5.9	6.1	5.7	5.8
BULLSEYE LTZ	6.7	6.0	6.0	5.2	5.4	4.9	56.7	56.7	40.0	5.6	6.4	5.7	5.7	5.8	5.7	5.6	5.5	5.8
FIRECRACKER G-LS (PPG-TF 315)	7.0	6.3	5.3	5.7	6.0	5.8	53.3	46.7	30.0	5.5	6.3	5.9	5.7	6.1	6.0	5.7	5.5	5.8
GEM (PPG-TF 316)	6.4	5.3	5.0	5.3	5.6	5.3	61.7	65.0	45.0	5.9	5.9	5.5	5.7	6.0	6.0	5.7	5.5	5.8
HEMI	6.2	5.8	6.3	5.0	5.6	5.8	38.3	43.3	36.7	5.7	6.1	5.9	5.9	6.1	5.9	5.7	5.5	5.8
HOUNDG NINE (DLFPS-321/3702)	6.6	6.1	5.3	5.3	5.9	5.4	40.0	43.3	26.7	5.5	6.2	5.9	5.8	6.0	5.8	5.5	5.4	5.8
LBF	6.8	6.3	5.3	6.2	5.7	5.6	40.0	50.0	16.7	5.9	6.2	5.6	5.9	6.1	5.9	5.3	5.4	5.8
PPG-TF 318	6.8	5.4	5.3	5.0	5.8	5.5	51.7	51.7	28.3	5.8	6.2	5.7	6.0	5.9	5.7	5.6	5.4	5.8
RDC	6.3	6.0	6.0	5.3	5.7	5.9	53.3	43.3	26.7	5.5	6.0	5.9	5.9	6.1	6.0	5.8	5.5	5.8
SPYDER 2LS (ZRC1)	6.5	6.2	5.7	5.2	6.1	5.7	46.7	51.7	26.7	5.7	6.0	5.8	6.0	6.1	5.9	5.7	5.3	5.8
TITAN GLX (TF445)	6.5	5.7	6.3	5.6	5.4	5.3	56.7	53.3	38.3	5.9	6.0	5.7	6.1	6.1	5.7	5.5	5.6	5.8
A-TF31	6.3	6.0	5.0	5.3	5.6	5.3	45.0	46.7	31.7	5.5	5.7	5.6	5.8	5.9	5.6	5.7	5.4	5.7
DLFPS-321/3707	6.8	6.3	5.0	5.3	5.2	5.3	63.3	55.0	30.0	5.5	5.7	5.9	5.8	5.9	5.9	5.4	5.4	5.7
FASTLANE (BY-TF-169)	6.8	6.3	5.7	5.3	5.6	5.8	46.7	53.3	26.7	5.5	5.9	5.7	5.6	6.1	5.9	5.8	5.3	5.7
K18-WB1	6.5	5.5	5.7	5.9	5.3	5.4	56.7	55.0	30.0	5.6	6.0	5.4	5.5	6.1	6.1	5.5	5.4	5.7
NAI-FQZ-17	6.2	5.3	6.0	5.4	6.1	5.8	55.0	48.3	35.0	5.3	6.1	5.9	5.7	6.1	5.8	5.4	5.4	5.7
SETFM3	6.8	6.3	5.3	5.3	5.5	6.0	41.7	41.7	26.7	5.4	5.9	5.7	5.8	6.0	5.8	5.7	5.5	5.7
TD2	7.1	5.7	5.3	5.3	5.8	5.7	33.3	40.0	31.7	5.5	6.0	5.5	5.7	5.9	5.6	5.6	5.3	5.7
TITAN MAX (TF456)	6.6	6.2	5.0	5.5	5.8	5.5	43.3	45.0	36.7	5.4	5.9	5.7	5.7	5.9	5.9	5.6	5.3	5.7
TITANIUM G-LS (PPG-TF 255)	6.8	6.0	5.7	5.1	5.9	5.8	53.3	45.0	30.0	5.7	5.7	5.9	5.8	5.9	5.8	5.6	5.5	5.7
DLFPS-321/3693	6.5	5.8	4.0	5.5	5.3	5.3	28.3	41.7	23.3	5.3	5.9	5.6	5.5	6.0	6.0	5.2	5.1	5.6
GRAND PRIX (FC15-01P)	6.5	6.7	5.7	5.0	4.9	5.7	38.3	31.7	23.3	5.5	5.7	5.5	5.7	5.8	5.7	5.7	5.5	5.6
PPG-TF 249	6.1	5.4	5.3	5.3	5.5	5.5	48.3	55.0	28.3	5.4	5.6	5.5	5.7	5.9	5.9	5.5	5.2	5.6
PPG-TF 312	6.7	5.8	6.0	5.5	5.4	5.4	48.3	53.3	31.7	5.5	5.9	5.5	5.5	5.8	5.7	5.7	5.1	5.6
RAD-TF131	6.3	5.6	5.7	4.8	5.6	5.3	61.7	43.3	28.3	5.6	5.6	5.3	5.5	5.9	6.1	5.4	5.3	5.6
RHF	6.5	6.0	6.0	5.7	5.3	5.4	45.0	46.7	31.7	5.7	5.7	5.5	5.6	5.8	5.8	5.7	5.1	5.6
SETFM2	6.3	5.5	6.0	4.7	5.2	5.6	56.7	51.7	35.0	5.5	5.8	5.8	5.5	5.8	5.7	5.7	5.3	5.6
SR 8700 (TMT1)	5.9	5.8	5.7	5.2	5.3	5.3	41.7	46.7	25.0	5.4	5.7	5.7	5.6	5.7	5.6	5.7	5.4	5.6
ATF2116	6.3	5.6	5.7	5.0	5.1	5.2	41.7	45.0	31.7	5.3	5.7	5.6	5.7	5.7	5.4	5.4	5.3	5.5
BAR-FA8230	6.9	5.0	5.3	5.9	5.8	5.0	45.0	48.3	35.0	5.3	6.0	5.5	5.7	5.9	5.5	5.3	5.1	5.5
BENTLEY (DLFPS-321/3679)	6.7	5.3	5.7	5.2	5.0	5.2	38.3	38.3	31.7	5.5	5.8	5.4	5.5	5.8	5.6	5.4	5.1	5.5
DAYBREAK (AH2)	6.8	4.9	5.0	5.2	5.7	5.8	51.7	51.7	28.3	5.3	5.8	5.5	5.3	5.9	5.7	5.5	5.2	5.5

TABLE 29.  
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SHADE AT AMES, IA 1/  
2018-23 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY RATINGS			PERCENT GROUND COVER			QUALITY RATINGS								
				SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
ENDGAME (3N1)	6.9	5.6	5.0	5.4	5.9	4.8	35.0	40.0	28.3	5.3	5.7	5.3	5.5	5.7	5.5	5.3	5.3	5.5
ESSENTIAL 2 (DLFPS-TF/3552)	6.3	5.7	5.7	5.2	5.3	5.2	48.3	46.7	38.3	5.3	5.4	5.7	5.6	5.9	5.5	5.4	5.2	5.5
NATURALLY GREEN	6.7	5.9	4.3	5.0	4.9	5.1	46.7	35.0	20.0	5.6	5.5	5.7	5.6	6.1	5.6	5.1	5.1	5.5
NT-3	6.7	5.6	6.0	5.9	5.8	5.3	38.3	43.3	28.3	5.5	5.9	5.3	5.3	5.9	5.5	5.3	5.2	5.5
RAPTOR III	6.9	6.0	5.3	5.5	5.8	5.4	35.0	38.3	18.3	5.3	5.8	5.6	5.5	5.7	5.7	5.3	5.1	5.5
RHL2	6.7	5.2	5.7	5.2	5.6	5.4	51.7	51.7	35.0	5.6	5.3	5.1	5.5	5.9	5.8	5.3	5.1	5.5
SE5STAR	6.9	6.2	4.7	5.4	5.6	5.2	35.0	35.0	21.7	5.7	5.9	5.1	5.3	5.8	5.7	5.3	5.3	5.5
5LSS	6.5	5.3	4.7	5.0	5.3	5.1	30.0	35.0	26.7	5.5	5.5	5.6	5.3	5.7	5.3	5.3	5.0	5.4
BARNOBLE (BAR 9FE MAS)	6.8	5.8	4.3	4.8	5.5	5.6	21.7	25.0	11.7	4.7	5.6	6.1	5.7	5.9	5.3	4.9	4.9	5.4
FIREHAWK SLT	6.3	5.0	5.3	5.1	5.3	5.0	45.0	46.7	31.7	5.3	5.6	5.6	5.3	5.7	5.3	5.3	5.1	5.4
KENTUCKY-31	6.2	5.7	5.7	5.3	5.0	5.3	43.3	38.3	26.7	5.6	5.9	5.6	5.4	5.5	5.0	5.4	4.9	5.4
KIZZLE (K18-ROE)	6.2	5.0	6.3	5.2	5.3	5.3	35.0	58.3	28.3	5.0	5.7	5.1	5.3	5.5	5.6	5.3	5.3	5.4
LAFAYETTE (GO-AOMK)	6.4	5.4	5.7	4.8	6.0	5.3	30.0	33.3	23.3	5.3	5.8	5.9	5.4	5.3	5.1	5.1	5.0	5.4
NAI-ST5	6.9	5.4	5.0	5.1	5.6	5.4	33.3	33.3	15.0	5.5	5.5	5.5	5.3	5.6	5.5	5.1	4.8	5.4
PPG-TF 337	6.0	5.3	4.7	5.2	5.3	5.3	33.3	35.0	23.3	5.1	5.7	5.7	5.6	5.7	5.4	5.3	4.9	5.4
RS1	6.3	4.8	5.7	5.2	5.3	5.1	35.0	36.7	31.7	5.5	5.6	5.6	5.3	5.7	5.5	5.1	5.1	5.4
TOPSHELF (BGR-TF3)	6.3	5.3	5.7	5.0	5.5	5.3	35.0	40.0	31.7	5.3	5.6	5.4	5.5	5.7	5.3	5.3	5.3	5.4
ATF1768	6.6	5.2	5.0	5.3	4.8	5.5	25.0	25.0	11.7	5.2	5.5	5.4	5.1	5.4	5.3	5.1	5.1	5.3
DLFPS-321/3695	6.2	5.8	5.3	5.2	5.2	5.3	48.3	50.0	28.3	5.4	5.5	5.2	5.4	5.5	5.3	5.1	5.1	5.3
DLFPS-321/3706	6.2	5.4	4.0	4.9	4.9	5.3	13.3	23.3	16.7	5.3	5.5	5.5	5.4	5.5	5.2	5.1	4.9	5.3
ESCALADE	6.4	5.3	5.3	5.2	5.5	4.9	40.0	38.3	31.7	5.3	5.7	5.4	5.4	5.4	5.1	5.3	4.9	5.3
ESTRENA	6.3	5.3	5.0	4.9	5.2	4.8	41.7	38.3	31.7	5.4	5.5	5.5	5.6	5.5	4.9	5.2	5.1	5.3
PARAMOUNT	6.2	5.6	3.7	5.3	5.4	5.2	26.7	31.7	23.3	5.2	5.7	5.3	5.2	5.5	5.2	5.1	4.8	5.3
SERENADE (PPG-TF 320)	6.3	5.3	4.3	5.2	4.9	5.1	31.7	28.3	25.0	5.2	5.6	5.5	5.1	5.6	5.2	5.0	4.9	5.3
TEACHER (PPG-TF 313)	6.1	5.5	4.0	5.1	5.1	5.6	31.7	31.7	18.3	5.1	5.3	5.6	5.5	5.7	5.4	5.0	4.8	5.3
TRIAD (PPG-TF 323)	6.4	5.3	4.7	4.9	4.7	4.9	28.3	28.3	21.7	5.3	5.7	5.6	5.3	5.5	5.1	5.0	4.9	5.3
AST8118LM	6.4	4.7	4.7	4.7	5.2	5.2	26.7	26.7	20.0	5.3	5.5	5.3	5.3	5.5	5.2	4.7	5.0	5.2
DLFPS-321/3708	6.9	5.8	3.7	5.3	4.9	5.2	16.7	16.7	18.3	5.1	5.3	5.6	5.1	5.5	5.5	4.9	4.3	5.2
DLFPS-TF/3553	6.0	4.8	4.3	4.9	4.8	4.8	26.7	30.0	30.0	5.3	5.4	4.9	5.3	5.1	5.4	5.1	5.2	5.2
FIERCE (K18-RS6)	6.4	5.5	4.3	5.3	5.3	5.4	33.3	30.0	15.0	4.8	5.7	5.1	5.2	5.6	5.3	5.0	4.8	5.2
GALLARDO (DLFPS-TF/3550)	6.6	5.1	5.3	5.5	5.5	5.5	16.7	13.3	11.7	5.3	5.4	5.4	5.3	5.5	5.1	4.9	4.9	5.2
GRO-PRO (SE53D2)	6.4	4.6	5.0	4.8	5.0	5.0	33.3	30.0	26.7	5.3	5.5	5.4	5.3	5.4	5.0	4.9	4.9	5.2
AST8218LM	6.8	5.0	4.3	4.8	4.9	5.1	11.7	6.7	11.7	5.1	5.3	5.1	5.1	5.3	5.1	5.1	4.7	5.1
BAR FA 8228	7.1	5.2	4.3	5.3	5.4	5.3	33.3	13.3	10.0	5.0	5.5	5.5	5.1	5.4	4.9	4.8	4.4	5.1
DLFPS-321/3694	6.0	4.8	3.7	4.8	5.0	5.0	30.0	33.3	23.3	5.0	5.1	5.4	5.3	5.5	5.1	4.9	4.8	5.1
TANK (PPG-TF 338)	6.3	5.1	3.7	4.8	5.1	4.8	21.7	16.7	18.3	5.2	5.3	5.3	5.3	5.3	5.1	4.9	4.7	5.1
CLASH (AH1)	6.4	4.3	4.7	4.9	5.2	5.2	13.3	20.0	20.0	4.9	5.1	5.2	5.1	5.2	4.9	4.8	4.8	5.0
OG-WALK	6.3	5.0	3.0	5.1	4.9	4.3	8.3	6.7	5.0	4.9	5.2	5.4	5.1	5.4	4.8	4.7	4.7	5.0
PALOMAR	6.4	5.2	3.3	4.8	4.8	4.8	6.7	6.7	6.7	4.7	5.0	5.5	5.2	5.2	4.8	4.5	4.8	5.0
ZION (BAR TF 134)	6.2	4.5	4.0	4.9	5.3	5.0	23.3	30.0	20.0	5.3	5.1	5.1	5.2	5.1	4.8	4.7	4.5	5.0
SOUTHSIDE (PPG-TF 267)	6.3	4.5	4.0	4.6	5.0	4.9	18.3	16.7	10.0	5.3	5.3	4.7	4.8	5.0	4.8	4.5	4.5	4.9
EXPANSE (PPG-TF 262)	5.8	3.8	3.0	5.0	5.3	5.0	10.0	16.7	6.7	4.7	4.9	5.2	4.9	5.1	4.7	4.6	4.1	4.8
LS D VALUE	9.0	6.6	1.4	8.8	4.6	7.8	78.3	91.3	73.3	2.4	1.1	2.2	1.2	1.1	1.1	1.3	1.3	0.9
C.V. (%)	25.8	38.3	26.3	34.1	26.9	31.6	53.4	56.3	60.1	22.7	19.5	21.1	19.6	19.1	21.4	23.8	23.9	17.6

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 29.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SHADE AT AMES, IA 1/  
2018-23 DATA

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

NAME	COLOR RATINGS				PERCENT GROUND COVER APRIL-NOVEMBER						PERCENT ESTABLISHMENT	
	SEPT	OCT	NOV	APR	MAY	JULY	AUG	SEPT	OCT	NOV	OCT	NOV
GRANDE 3	7.1	7.9	8.1	51.1	78.6	66.9	63.9	81.7	58.8	37.2	36.7	63.3
PST-5TRN	7.1	7.8	7.9	53.7	80.0	69.3	70.8	75.7	62.2	32.8	35.0	53.3
STEALTH (PPG-TF 238)	6.7	7.7	8.1	51.8	71.9	69.9	71.0	89.0	62.8	35.7	36.7	68.3
XANADU (JT 268 )	7.0	8.0	8.0	48.7	72.4	67.0	71.3	81.7	53.3	37.3	33.3	60.0
AVENGER III (PPG-TF 308)	7.1	7.7	7.9	40.3	67.3	71.4	68.3	82.7	62.2	30.2	36.7	66.7
BRAVO 2	7.2	7.9	8.2	48.1	75.4	71.1	63.8	78.3	54.6	29.5	36.7	55.0
COPIOUS TF	7.1	7.7	8.1	44.9	74.3	67.2	69.3	83.0	62.8	36.5	38.3	63.3
FAIRFIELD (SETF104)	7.4	7.9	8.1	53.1	81.7	65.4	72.7	79.3	69.6	37.7	33.3	61.7
FAYETTE	7.3	8.2	8.1	50.6	72.7	69.6	72.9	87.0	60.0	38.2	21.7	51.7
PADRE 2	7.1	8.0	7.8	45.4	76.0	63.6	67.2	74.7	58.6	35.5	33.3	56.7
PPG-TF 231	7.1	7.7	8.1	52.1	74.4	67.8	72.0	83.7	59.4	41.8	33.3	55.0
PST-5GQ	7.1	7.7	7.9	53.8	75.2	69.0	69.2	75.3	63.9	40.8	25.0	51.7
RACEWAY (DLFPS-321/3696)	7.4	8.1	8.4	53.9	80.3	69.2	65.3	83.0	63.4	37.2	30.0	51.7
RAD-TF 115 (TURBO SS)	7.2	7.9	8.3	50.8	77.7	75.7	73.2	84.0	55.8	35.5	43.3	55.0
ROVER (PPG-TF 306)	6.9	8.0	8.0	47.8	71.8	71.3	69.1	78.0	58.9	29.3	40.0	63.3
VALSETZ (PPG-TF 257)	6.8	7.3	8.0	51.8	73.0	68.9	73.8	86.0	64.4	41.8	30.0	66.7
BIRMINGHAM	7.3	8.0	8.4	48.8	78.8	64.7	64.2	75.7	52.2	27.3	26.7	56.7
DRAGSTER	7.0	8.0	7.8	49.2	69.9	70.0	64.8	84.7	46.2	33.7	35.0	53.3
DYNAMITE G-LS (PPG-TF 254)	6.4	7.4	7.1	49.3	64.1	61.4	63.0	66.3	52.2	36.3	41.7	68.3
EXTRAVAGANZA (PST-5MCMO)	7.2	8.1	8.0	52.6	74.7	60.7	62.2	67.3	54.9	30.3	33.3	56.7
FINELAWN SUPREME (RH3)	7.0	7.9	8.3	46.7	71.7	76.7	78.4	88.0	60.7	31.8	25.0	58.3
GLX REVIVE (PST-5GLBS)	6.7	7.4	7.9	43.1	65.9	63.0	69.9	75.3	56.4	41.8	31.7	61.7
HELLCAT GLR (PST-5E6)	6.7	7.7	7.8	45.9	73.9	67.4	66.0	75.7	61.2	34.3	38.3	66.7
JT 517	7.1	7.9	8.1	43.6	77.8	65.3	60.8	64.3	58.8	32.8	33.3	53.3
MOONDANCE GLX	7.1	7.9	8.2	46.2	73.7	59.4	71.3	81.3	54.9	37.3	35.0	50.0
ORIOLE (PST-5BYOB)	7.0	7.8	8.2	48.0	72.2	63.2	69.3	76.0	57.6	32.7	40.0	58.3
PRO GOLD	6.4	7.4	8.2	49.8	78.8	64.2	63.2	72.7	62.4	33.0	30.0	56.7
PROVIDENCE (GO-RH20)	6.9	7.7	7.8	55.6	69.6	66.9	60.4	61.3	54.3	36.3	43.3	63.3
RAD-TF105	7.4	8.0	8.4	53.8	67.4	62.3	62.7	71.3	50.4	39.2	30.0	60.0
ROWDIER (DLFPS-321/3699)	7.3	8.0	8.0	47.8	71.8	58.6	55.4	66.7	51.2	32.5	33.3	56.7
SYMPHONY (PPG-TF 305)	7.0	7.9	8.1	40.7	71.3	71.3	72.1	88.0	61.2	31.0	35.0	56.7
BANDIT	7.4	8.2	8.2	43.6	68.1	66.0	61.4	59.7	42.1	29.5	30.0	55.0
BLADERUNNER 3 (DLFPS-321/3701)	6.9	7.8	8.1	42.2	66.4	62.4	59.7	76.0	45.1	28.3	33.3	56.7
BULLSEYE	6.0	6.7	6.7	54.4	61.9	54.1	58.8	62.7	56.1	40.7	35.0	65.0
CAPITAN (DLFPS-321/3705)	6.8	7.6	8.0	43.0	70.2	69.4	67.9	85.0	65.9	33.8	33.3	61.7
DLFPS-321/3703	7.2	7.8	8.1	41.1	67.2	60.7	57.1	66.3	46.3	23.0	35.0	58.3
FALCON SUPREME (RH1)	7.0	7.8	7.9	47.1	73.1	67.6	67.7	75.0	57.3	32.0	35.0	58.3
FIRENZA II (PPG-TF 244)	6.8	7.6	8.0	43.6	66.9	68.6	67.7	70.0	56.4	32.3	41.7	58.3
GLX ACED (PST-5DART)	6.9	8.1	8.2	46.0	72.6	69.0	72.6	84.3	53.4	39.2	33.3	61.7
JT 233	7.0	7.6	8.0	40.7	65.9	67.8	68.6	85.3	57.9	29.0	28.3	53.3
K18-NSE	7.0	8.2	8.0	43.6	76.9	61.4	64.8	78.3	49.9	32.8	40.0	58.3
PST-5DZM	7.1	8.0	8.0	36.4	62.8	59.3	67.1	75.7	59.9	36.0	35.0	55.0
PST-5MINK	7.0	7.8	7.7	48.2	66.1	66.2	66.0	71.0	54.3	32.5	26.7	58.3
RC4	6.4	7.2	7.6	47.2	63.7	55.0	61.3	66.7	50.9	35.7	41.7	66.7
TYCOON (COL-TF-148)	6.8	7.7	7.9	48.0	69.3	53.9	59.3	71.7	51.9	29.0	25.0	50.0

TABLE 29.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SHADE AT AMES, IA 1/  
2018-23 DATA

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

NAME	COLOR RATINGS				PERCENT GROUND COVER APRIL-NOVEMBER						PERCENT ESTABLISHMENT	
	SEPT	OCT	NOV	APR	MAY	JULY	AUG	SEPT	OCT	NOV	OCT	NOV
BATTLE HAWK (NAI-ROS4)	7.1	7.8	7.9	40.9	59.6	60.3	56.7	70.7	49.2	31.3	40.0	56.7
BONFIRE (JS DTT)	6.8	7.9	8.1	36.8	62.9	65.8	64.3	72.7	52.8	26.0	35.0	56.7
DEGAS (LTP-TF-111)	6.8	7.9	8.0	47.7	76.2	56.1	59.7	78.3	51.3	28.5	33.3	65.0
GALACTIC (SESCR1)	7.2	7.8	7.8	41.4	66.3	59.6	55.9	68.7	53.2	34.0	33.3	50.0
LIFEGUARD	7.3	7.7	7.3	37.4	57.6	53.7	54.1	59.3	42.2	21.5	35.0	65.0
MONUMENT (PST-5SQB)	7.1	7.8	7.9	36.6	59.2	58.4	63.1	71.7	51.2	25.3	38.3	58.3
OKEEFE (LTP-TF-122)	6.9	7.8	8.0	47.8	71.0	59.0	58.1	78.7	52.1	32.3	40.0	48.3
PST-5DC24	7.2	7.9	7.7	36.0	60.4	64.0	56.8	77.3	42.9	20.3	38.3	60.0
RAPTOR LS (PPG-TF 336)	6.1	6.3	6.8	47.9	59.9	57.2	60.3	64.7	55.0	35.7	36.7	60.0
TALLADEGA II (NAI-3N2)	6.8	7.7	7.8	42.1	58.3	62.4	57.2	65.7	45.9	29.0	35.0	58.3
TANGO	7.1	7.7	7.9	42.2	65.6	64.0	56.4	74.3	55.2	37.5	36.7	56.7
TAR HEEL III (PST-5THM)	7.2	7.9	7.9	41.2	76.3	62.4	63.1	73.0	56.2	28.2	33.3	58.3
TOUGH (NAI-TUE)	7.0	8.0	7.7	42.6	61.2	56.7	47.0	60.7	35.3	26.8	45.0	63.3
3B2	7.3	7.8	7.8	37.7	63.7	47.2	50.6	61.3	38.2	24.0	31.7	55.0
BULLSEYE LTZ	6.8	7.6	7.4	40.2	55.7	53.4	54.6	60.0	50.1	25.8	40.0	53.3
FIRECRACKER G-LS (PPG-TF 315)	6.8	7.3	7.7	35.3	46.4	51.3	47.8	54.3	43.6	24.7	40.0	63.3
GEM (PPG-TF 316)	6.0	6.4	7.2	42.2	58.8	48.0	53.3	62.0	48.6	31.7	41.7	61.7
HEMI	6.9	7.2	7.4	43.6	61.7	56.7	53.4	55.0	47.0	33.0	41.7	66.7
HOUNDG NINE (DLFPS-321/3702)	7.0	7.7	8.1	40.8	66.6	50.3	51.0	54.7	39.4	23.3	30.0	45.0
LBF	7.3	8.2	8.2	43.2	70.7	58.9	56.4	66.3	34.8	25.0	41.7	65.0
PPG-TF 318	7.1	6.3	6.6	47.0	58.3	51.0	57.0	64.7	51.8	32.0	35.0	55.0
RDC	6.9	7.9	7.8	33.9	68.6	69.7	60.2	75.3	48.0	27.8	33.3	63.3
SPYDER 2LS (ZRC1)	6.9	7.6	7.9	35.7	67.8	64.1	62.4	69.3	48.0	24.7	36.7	53.3
TITAN GLX (TF445)	6.7	7.6	7.8	47.7	62.4	61.8	61.0	65.7	46.3	31.7	31.7	56.7
A-TF31	7.1	7.6	7.8	37.6	54.0	50.6	57.2	53.7	44.9	30.5	26.7	43.3
DLFPS-321/3707	7.0	7.6	7.6	35.1	57.7	56.8	52.0	60.7	44.9	26.3	30.0	58.3
FASTLANE (BY-TF-169)	7.3	7.9	7.6	35.4	60.1	51.3	57.6	63.0	45.4	21.7	31.7	58.3
K18-WB1	6.7	7.1	7.6	36.1	59.6	58.6	57.0	67.0	49.8	32.0	33.3	60.0
NAI-FQZ-17	6.1	6.9	6.3	31.3	60.9	52.8	48.4	52.0	41.6	26.7	33.3	65.0
SETFM3	7.3	7.9	8.0	36.0	61.3	49.9	45.1	64.3	40.0	24.8	38.3	63.3
TD2	6.9	7.2	7.7	47.2	58.2	47.3	48.2	53.7	47.4	29.3	41.7	60.0
TITAN MAX (TF456)	6.8	7.2	7.8	38.0	56.6	49.2	49.3	67.7	53.8	26.5	36.7	60.0
TITANIUM G-LS (PPG-TF 255)	6.9	7.3	7.9	34.8	50.9	54.1	45.6	64.3	47.9	28.5	35.0	61.7
DLFPS-321/3693	6.8	7.2	7.1	30.0	53.0	55.9	53.3	54.3	39.7	21.2	38.3	56.7
GRAND PRIX (FC15-01P)	7.4	7.9	8.1	32.3	60.1	51.2	45.6	62.0	47.3	27.5	28.3	48.3
PPG-TF 249	6.1	6.9	6.3	27.1	50.9	54.9	51.4	61.0	39.4	21.7	33.3	58.3
PPG-TF 312	6.6	7.3	7.4	32.3	55.3	53.1	41.4	56.0	46.3	24.2	33.3	51.7
RAD-TF131	6.6	6.4	7.0	34.7	53.7	49.4	50.0	62.7	46.4	33.2	40.0	65.0
RHF	6.4	7.1	7.7	36.9	50.7	48.9	42.8	61.7	44.6	26.7	38.3	60.0
SETFM2	6.4	7.1	7.2	43.3	63.7	47.7	54.3	61.0	40.8	30.5	30.0	40.0
SR 8700 (TMT1)	6.7	7.1	7.3	32.6	48.6	44.8	47.2	56.7	41.9	31.7	36.7	60.0
ATF2116	6.7	7.6	7.3	32.0	50.4	46.1	45.0	46.7	36.6	22.0	31.7	63.3
BAR-FA8230	6.3	6.3	6.6	34.0	48.9	47.9	51.3	55.7	40.9	26.5	31.7	56.7
BENTLEY (DLFPS-321/3679)	6.7	7.0	7.4	42.2	55.1	48.6	45.2	54.7	39.3	30.2	33.3	61.7
DAYBREAK (AH2)	6.8	7.2	6.3	28.8	51.9	43.3	43.0	51.7	36.8	22.5	38.3	66.7

TABLE 29.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER SHADE AT AMES, IA 1/  
2018-23 DATA

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

NAME	SEPT	COLOR RATINGS				PERCENT GROUND COVER APRIL-NOVEMBER					PERCENT ESTABLISHMENT		
		OCT	NOV	APR	MAY	JULY	AUG	SEPT	OCT	NOV	OCT	NOV	
ENDGAME (3N1)	6.6	7.3	7.6	25.2	47.3	38.1	42.1	46.3	37.8	22.8	31.7	50.0	
ESSENTIAL 2 (DLFPS-TF/3552)	6.3	7.0	7.1	30.3	52.1	41.9	46.8	55.0	39.1	29.0	28.3	63.3	
NATURALLY GREEN	7.2	7.7	7.8	32.2	43.9	50.0	44.1	47.7	31.1	22.8	41.7	66.7	
NT-3	6.0	6.7	6.8	35.1	49.6	41.7	45.4	45.3	36.7	24.0	40.0	66.7	
RAPTOR III	7.1	7.9	7.8	25.9	46.6	44.0	45.6	57.7	37.7	19.0	33.3	53.3	
RHL2	6.1	6.4	6.2	38.9	44.4	50.3	49.9	54.7	40.9	25.0	38.3	70.0	
SE5STAR	7.1	7.4	7.4	36.9	54.7	32.0	38.6	39.3	24.6	17.5	30.0	55.0	
5LSS	6.1	6.4	5.7	31.3	43.9	35.3	33.2	36.0	34.4	18.5	35.0	56.7	
BARNOBLE (BAR 9FE MAS)	6.8	7.3	7.3	20.8	44.7	41.2	33.2	36.3	21.4	14.0	31.7	56.7	
FIREHAWK SLT	6.2	6.4	6.2	28.7	43.7	44.9	43.9	49.7	35.8	17.8	36.7	53.3	
KENTUCKY-31	5.9	6.8	7.6	31.0	56.1	44.4	41.4	47.0	36.6	21.8	46.7	70.0	
KIZZLE (K18-ROE)	6.2	6.3	6.2	36.7	58.4	46.2	45.2	57.3	39.7	22.5	45.0	50.0	
LAFAYETTE (GO-AOMK)	6.2	7.3	6.6	32.6	46.9	39.0	38.1	39.0	25.3	14.5	40.0	53.3	
NAI-ST5	6.8	7.3	7.3	30.9	46.4	36.9	31.6	31.0	23.9	13.3	45.0	71.7	
PPG-TF 337	6.0	6.1	5.6	22.8	40.8	44.7	37.7	35.7	30.4	18.3	33.3	61.7	
RS1	6.3	6.6	6.6	37.2	47.3	33.4	37.8	38.7	33.0	23.0	38.3	60.0	
TOPSHELF (BGR-TF3)	6.3	6.8	6.7	34.7	48.3	40.4	39.7	44.0	28.8	22.3	41.7	63.3	
ATF1768	6.4	6.7	7.1	26.0	40.3	36.9	37.1	40.3	25.8	16.7	38.3	60.0	
DLFPS-321/3695	5.9	6.4	7.3	30.6	46.3	49.0	42.4	51.0	33.1	23.5	41.7	60.0	
DLFPS-321/3706	5.8	6.9	6.2	21.6	42.7	37.8	32.4	38.0	24.9	14.0	31.7	58.3	
ESCALADE	6.1	6.4	6.6	37.2	47.0	39.0	36.6	40.3	37.9	23.3	35.0	56.7	
ESTRENA	5.8	7.1	7.0	32.1	43.9	39.9	38.2	48.3	38.1	25.3	38.3	66.7	
PARAMOUNT	6.1	6.4	6.0	26.0	48.3	41.6	41.8	42.0	34.7	15.3	35.0	48.3	
SERENADE (PPG-TF 320)	6.6	6.6	6.9	25.7	50.2	42.3	34.4	45.0	33.2	20.8	33.3	65.0	
TEACHER (PPG-TF 313)	6.2	6.7	7.2	19.7	40.9	49.9	35.3	55.0	38.2	24.0	40.0	63.3	
TRIAD (PPG-TF 323)	6.0	6.6	6.6	23.2	37.7	39.8	38.4	39.7	30.0	17.3	26.7	40.0	
AST8118LM	6.1	6.1	5.8	26.9	37.1	27.4	31.8	33.3	19.9	14.7	28.3	65.0	
DLFPS-321/3708	6.9	7.3	6.3	17.9	34.3	32.6	25.9	28.3	19.0	8.0	31.7	56.7	
DLFPS-TF/3553	6.2	7.6	7.1	30.9	50.6	42.0	36.6	61.3	31.9	25.0	40.0	58.3	
FIERCE (K18-RS6)	6.9	7.3	7.4	21.0	50.2	36.7	36.6	46.7	30.3	14.0	38.3	61.7	
GALLARDO (DLFPS-TF/3550)	6.1	6.8	6.7	30.7	50.4	27.7	30.1	30.0	22.6	16.2	38.3	60.0	
GRO-PRO (SE53D2)	6.2	5.9	5.6	33.3	40.0	38.8	37.4	31.0	28.1	21.2	31.7	55.0	
AST8218LM	6.6	7.0	7.0	23.2	33.6	28.6	20.3	22.3	24.7	16.3	36.7	56.7	
BAR FA 8228	5.3	5.7	5.9	24.7	39.6	24.1	19.6	18.0	14.2	5.2	43.3	61.7	
DLFPS-321/3694	5.4	5.9	5.8	26.9	40.0	41.6	39.9	45.0	32.9	23.5	40.0	60.0	
TANK (PPG-TF 338)	6.4	6.8	6.4	25.2	34.1	30.6	31.1	37.3	26.7	17.7	36.7	60.0	
CLASH (AH1)	6.1	5.8	5.3	23.3	29.6	26.3	19.3	28.3	24.8	15.3	40.0	60.0	
OG-WALK	6.1	7.2	7.0	13.2	31.1	29.8	25.1	28.3	18.9	9.7	31.7	55.0	
PALOMAR	5.9	6.6	6.9	10.3	29.8	25.4	18.2	19.7	13.9	12.8	31.7	48.3	
ZION (BAR TF 134)	5.4	5.7	5.7	21.1	27.7	30.2	26.2	33.0	21.6	10.3	35.0	61.7	
SOUTHSIDE (PPG-TF 267)	6.2	6.0	5.7	22.6	30.8	16.4	16.6	18.0	10.9	7.7	41.7	63.3	
EXPANSE (PPG-TF 262)	5.7	5.7	5.3	13.0	19.3	16.0	9.6	12.3	8.4	6.3	40.0	68.3	
LSD VALUE	1.7	1.1	1.3	41.8	27.4	25.3	26.3	94.1	25.6	59.4	22.0	28.0	
C.V. (%)	17.7	15.4	17.8	68.2	44.6	46.7	50.3	46.4	56.1	72.5	20.6	15.4	

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

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

TABLE 30.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/  
2019-2023 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER			PINK SNOW MOLD	APR	MAY	JUN	JUL	QUALITY RATINGS				MEAN
		SPRING	SUMMER	FALL						AUG	SEP	OCT		
PPG-TF 249	3.4	99	80.6	92.8	4.0	6.3	6.8	6.8	7.0	6.7	7.4	6.7	6.9	
ROVER (PPG-TF 306)	2.9	99	79.8	91.2	4.7	6.0	6.4	6.9	7.1	6.9	7.3	6.8	6.9	
K18-NSE	4.0	99	71.6	86.5	3.7	6.3	6.8	7.0	6.3	6.9	7.0	6.7	6.8	
5LSS	3.6	99	73.3	83.0	4.0	5.7	7.1	6.9	6.1	6.5	7.0	6.7	6.7	
CLASH (AH1)	3.7	99	71.6	87.8	4.0	6.0	6.5	7.1	6.4	6.6	7.2	6.8	6.7	
DRAGSTER	3.4	99	77.3	89.5	3.3	6.3	6.8	6.8	6.7	6.6	7.1	6.7	6.7	
FIREHAWK SLT	3.1	99	73.3	88.0	4.7	5.7	6.5	6.9	6.5	6.6	7.1	6.5	6.7	
GEM (PPG-TF 316)	3.0	99	78.1	89.7	4.3	5.7	6.5	6.9	6.7	6.9	7.0	6.5	6.7	
PPG-TF 337	2.8	99	75.8	84.7	4.0	5.7	6.3	7.1	6.5	6.7	7.0	6.6	6.7	
SPYDER 2LS (ZRC1)	2.8	99	78.2	94.2	4.3	5.7	6.3	6.8	6.5	6.9	7.4	6.7	6.7	
SYMPHONY (PPG-TF 305)	2.9	99	80.6	89.5	4.7	5.3	6.3	6.9	6.9	6.7	7.1	6.5	6.7	
VALSETZ (PPG-TF 257)	2.7	99	79.1	94.2	5.7	5.3	6.3	6.9	6.7	6.7	7.3	6.7	6.7	
ZION (BAR TF 134)	3.8	99	75.8	88.0	3.3	6.7	6.5	6.8	6.6	6.6	7.1	6.7	6.7	
BATTLE HAWK (NAI-ROS4)	3.6	99	73.3	86.3	4.7	6.0	6.6	6.7	6.2	6.7	7.1	6.5	6.6	
DEGAS (LTP-TF-111)	3.7	99	74.0	86.3	4.3	6.3	6.6	6.9	6.1	6.7	6.9	6.4	6.6	
DYNAMITE G-LS (PPG-TF 254)	3.4	99	72.3	86.3	3.7	6.7	6.9	6.8	6.3	6.7	6.9	6.3	6.6	
EXPANSE (PPG-TF 262)	3.3	99	75.7	92.7	5.0	5.7	6.4	6.7	6.5	6.8	7.2	6.4	6.6	
FIERCE (K18-RS6)	3.7	99	71.7	88.0	4.0	6.3	6.9	6.5	6.1	6.6	6.9	6.5	6.6	
FIRECRACKER G-LS (PPG-TF 315)	3.2	99	74.8	86.3	4.0	6.3	6.6	7.0	6.3	6.6	6.9	6.3	6.6	
GALACTIC (SESCR1)	3.8	99	73.3	81.3	4.0	5.3	6.6	6.9	6.1	6.5	6.9	6.7	6.6	
PPG-TF 231	3.6	99	75.7	89.7	5.0	5.7	6.6	6.9	6.5	6.5	7.0	6.3	6.6	
RAPTOR LS (PPG-TF 336)	3.3	99	78.3	87.8	4.7	5.7	6.7	6.9	6.3	6.7	6.9	6.4	6.6	
RHF	3.3	99	74.0	84.7	4.7	5.7	6.5	6.8	6.5	6.5	6.9	6.5	6.6	
RHL2	3.7	99	73.3	89.5	5.7	5.7	6.4	6.9	6.3	6.6	7.0	6.7	6.6	
SERENADE (PPG-TF 320)	3.7	99	71.6	89.5	3.3	6.0	6.7	6.9	5.9	6.5	6.8	6.7	6.6	
SOUTHSIDE (PPG-TF 267)	3.1	99	78.3	81.3	5.3	6.3	6.6	6.8	6.4	6.4	6.9	6.4	6.6	
STEALTH (PPG-TF 238)	3.2	99	78.2	87.8	5.0	5.7	6.3	6.8	6.7	6.5	7.1	6.4	6.6	
TALLADEGA II (NAI-3N2)	3.7	99	76.6	89.7	3.7	5.7	6.7	6.7	6.3	6.6	7.1	6.3	6.6	
TITANIUM G-LS (PPG-TF 255)	3.3	99	72.4	81.3	4.3	6.0	6.9	7.0	6.1	6.4	6.7	6.3	6.6	
XANADU (JT 268 )	3.3	99	77.3	86.3	4.0	5.7	6.3	6.9	6.6	6.8	7.0	6.5	6.6	
BANDIT	2.9	99	78.9	84.7	5.0	6.3	6.1	6.7	6.6	6.7	7.0	6.2	6.5	
BONFIRE (JS DTT)	2.9	99	68.3	79.7	5.3	6.0	6.7	7.1	5.8	6.1	6.9	6.2	6.5	
BULLSEYE LTZ	3.0	99	71.6	81.5	4.3	5.7	6.6	7.0	6.3	6.2	6.9	6.4	6.5	
CAPITAN (DLFPS-321/3705)	2.8	99	75.7	86.5	4.7	5.3	6.3	6.8	6.3	6.3	7.0	6.5	6.5	
COPIOUS TF	2.9	99	77.3	89.5	5.7	5.7	6.1	6.8	6.6	6.5	6.7	6.3	6.5	
DAYBREAK (AH2)	3.3	99	68.3	89.5	4.0	6.7	6.7	6.7	5.7	6.5	6.8	6.4	6.5	
DLFPS-321/3706	3.3	99	74.0	86.3	4.7	5.3	6.5	6.9	6.3	6.4	6.8	6.5	6.5	
ENDGAME (3N1)	3.2	99	74.1	86.2	5.3	5.0	6.5	6.7	6.5	6.5	6.8	6.5	6.5	
EXTRAVAGANZA (PST-5MCMO)	2.9	99	70.8	88.0	4.3	6.3	6.7	6.7	6.1	6.3	6.8	6.4	6.5	
FASTLANE (BY-TF-169)	3.5	99	71.6	86.2	5.0	6.0	6.6	6.7	6.1	6.6	6.9	6.4	6.5	
FIRENZA II (PPG-TF 244)	3.0	99	74.0	86.5	4.0	5.7	6.2	6.9	6.3	6.4	7.1	6.4	6.5	
KIZZLE (K18-ROE)	3.4	99	72.4	84.7	4.0	5.0	6.5	6.8	6.3	6.5	6.9	6.4	6.5	
NAI-ST5	3.7	99	74.9	86.3	5.0	5.7	6.8	6.7	6.2	6.4	6.7	6.2	6.5	
PADRE 2	3.7	99	74.1	84.8	4.3	6.0	6.5	6.7	6.4	6.5	6.7	6.3	6.5	
PPG-TF 312	3.5	99	67.4	83.0	4.0	6.0	6.4	6.6	5.9	6.3	7.1	6.5	6.5	



TABLE 30.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/  
2019-2023 DATA

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

NAME	SPRING	PERCENT GROUND COVER			PINK SNOW			QUALITY RATINGS					MEAN
	GREENUP	SPRING	SUMMER	FALL	MOLD	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-TF 318	3.5	99	68.3	83.0	3.3	7.0	6.6	6.9	6.1	6.3	6.8	6.4	6.5
PRO GOLD	3.5	99	74.1	84.7	4.3	5.7	6.6	6.9	6.5	6.3	6.6	6.3	6.5
PROVIDENCE (GO-RH20)	3.3	99	72.4	86.2	3.7	5.3	6.4	6.7	6.3	6.5	7.0	6.3	6.5
RC4	3.1	99	78.8	87.7	4.3	4.7	6.1	6.9	6.6	6.5	6.9	6.3	6.5
TD2	3.8	99	68.2	81.3	4.3	6.3	6.7	6.8	5.9	6.3	6.7	6.3	6.5
TEACHER (PPG-TF 313)	3.4	99	76.5	83.2	4.7	5.3	6.5	6.7	5.9	6.5	7.1	6.7	6.5
TRIAD (PPG-TF 323)	3.1	99	74.1	71.3	4.3	5.7	6.7	6.9	6.0	6.6	6.9	6.3	6.5
TYCOON (COL-TF-148)	3.5	99	74.1	84.8	3.0	6.0	6.7	6.7	6.0	6.3	6.9	6.4	6.5
AVENGER III (PPG-TF 308)	3.3	99	73.3	78.3	2.7	6.0	6.7	6.8	6.1	6.2	6.7	6.1	6.4
BLADERUNNER 3 (DLFPS-321/3701)	3.0	99	70.8	81.5	4.3	6.0	6.5	6.8	6.2	6.2	6.5	6.2	6.4
BULLSEYE	3.8	99	74.9	89.5	3.7	5.7	6.4	6.6	6.3	6.1	6.6	6.5	6.4
DLFPS-321/3708	3.3	99	73.3	89.5	4.3	5.7	6.2	6.8	6.1	6.3	6.7	6.5	6.4
DLFPS-TF/3553	3.5	99	68.3	78.3	4.0	6.7	6.7	6.6	5.9	5.9	6.8	6.4	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	3.4	99	69.9	89.5	5.7	5.3	6.0	6.8	6.0	6.4	6.7	6.4	6.4
ESTRENA	3.3	99	70.7	86.3	4.0	6.0	6.5	6.6	6.1	6.4	6.7	6.3	6.4
GALLARDO (DLFPS-TF/3550)	3.1	99	74.8	81.3	4.3	6.7	6.5	6.7	6.2	6.3	6.5	6.2	6.4
GRANDE 3	3.4	99	70.8	83.2	4.3	6.0	6.3	6.6	6.1	6.5	6.8	6.3	6.4
HELLCAT GLR (PST-5E6)	3.2	99	69.1	86.5	4.7	5.7	5.9	6.5	6.4	6.4	6.7	6.3	6.4
HOUNDOG NINE (DLFPS-321/3702)	3.8	99	69.9	71.5	4.3	5.7	6.8	7.0	5.8	5.9	6.7	6.1	6.4
K18-WB1	3.3	99	70.8	86.3	4.7	5.3	6.5	6.7	5.9	6.3	7.0	6.5	6.4
LIFEGUARD	3.2	99	70.8	83.2	4.3	5.7	6.3	6.6	5.9	6.3	6.8	6.4	6.4
OKEEFE (LTP-TF-122)	3.4	99	69.9	79.8	4.3	6.0	6.7	6.7	5.9	6.3	6.9	6.3	6.4
ORIOLE (PST-5BYOB)	3.2	99	68.3	78.2	4.7	6.0	6.7	6.7	6.1	6.1	6.4	6.1	6.4
PST-5DC24	2.9	99	74.0	91.2	5.3	5.3	6.1	6.9	6.3	6.5	6.7	6.4	6.4
PST-5DZM	2.9	99	71.6	83.0	4.3	5.7	6.3	6.9	5.9	6.3	6.7	6.3	6.4
PST-5GQ	2.8	99	74.9	84.7	5.3	5.3	6.3	6.9	6.4	6.5	6.6	6.1	6.4
PST-5TRN	3.3	99	73.2	87.8	5.0	5.7	6.3	6.5	6.3	6.5	6.7	6.1	6.4
RAD-TF105	3.3	99	73.3	84.8	5.7	5.7	6.3	6.8	6.3	6.3	6.6	6.1	6.4
RDC	3.0	99	67.4	83.0	6.3	5.7	6.3	6.7	5.9	6.3	6.7	6.4	6.4
SETFM2	3.4	99	76.5	89.7	4.0	6.3	6.1	6.8	6.5	6.3	6.7	6.2	6.4
SETFM3	3.1	99	70.0	86.3	4.0	5.7	6.0	6.7	6.3	6.3	6.9	6.2	6.4
TOUGH (NAI-TUE)	3.7	99	73.3	84.8	6.0	5.3	6.5	6.6	6.1	6.3	6.7	6.3	6.4
3B2	3.7	99	70.0	83.0	4.7	5.3	6.4	6.7	5.9	6.1	6.5	6.1	6.3
AST8118LM	3.5	99	72.3	81.3	4.7	6.0	6.4	6.7	5.9	6.1	6.5	6.1	6.3
AST8218LM	3.3	99	74.0	84.7	4.3	6.0	6.3	6.5	6.1	6.2	6.5	6.1	6.3
BENTLEY (DLFPS-321/3679)	3.5	99	75.7	74.8	3.7	6.0	6.5	6.6	6.1	6.2	6.5	5.9	6.3
BIRMINGHAM	3.8	99	72.5	86.3	4.7	6.3	6.3	6.3	6.2	6.1	6.7	6.0	6.3
BRAVO 2	3.8	99	72.4	78.2	4.3	6.0	6.5	6.5	6.1	6.3	6.3	6.0	6.3
DLFPS-321/3693	3.9	99	70.0	76.7	3.7	7.0	7.0	6.9	5.5	6.1	6.4	6.1	6.3
FAIRFIELD (SETF104)	3.1	99	73.3	88.0	5.0	5.0	5.9	6.5	6.3	6.4	6.7	6.4	6.3
FALCON SUPREME (RH1)	3.4	99	67.5	81.5	4.3	6.3	6.7	6.8	5.7	6.1	6.4	6.2	6.3
FAYETTE	3.9	99	69.2	79.8	3.7	6.3	6.6	6.7	5.7	6.1	6.5	6.3	6.3
FINELAWN SUPREME (RH3)	3.3	99	70.8	86.3	4.0	6.3	6.5	6.5	5.9	6.1	6.8	6.1	6.3
GLX ACED (PST-5DART)	3.4	99	72.5	83.0	4.7	6.3	6.5	6.8	6.0	6.1	6.3	6.1	6.3
GRO-PRO (SE53D2)	3.1	99	70.8	81.5	5.0	5.3	6.3	6.5	6.2	6.4	6.7	6.1	6.3

TABLE 30.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/  
2019-2023 DATA

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

NAME	SPRING	PERCENT	GROUND COVER		PINK SNOW	APR	MAY	JUN	QUALITY RATINGS				MEAN
	GREENUP	SPRING	SUMMER	FALL	MOLD				JUL	AUG	SEP	OCT	
HEMI	3.3	99	72.4	78.2	3.3	5.7	6.5	6.7	6.1	6.4	6.6	6.0	6.3
JT 233	3.8	99	70.8	78.0	3.7	6.3	6.7	6.9	5.9	6.0	6.5	6.0	6.3
NT-3	3.3	99	65.8	78.0	4.3	5.7	6.3	6.8	5.9	6.2	6.6	6.3	6.3
PARAMOUNT	3.9	99	70.0	76.7	4.0	6.3	6.7	6.7	5.7	6.1	6.6	6.1	6.3
RACEWAY (DLFPS-321/3696)	3.8	99	70.7	68.3	4.3	6.7	6.9	6.9	5.9	6.1	6.1	5.8	6.3
RAPTOR III	3.3	99	72.4	86.2	4.3	6.0	6.5	6.7	5.9	6.1	6.6	6.1	6.3
ROWDIER (DLFPS-321/3699)	3.6	99	68.3	75.0	3.3	6.7	6.5	6.9	5.8	6.1	6.5	6.0	6.3
RS1	3.1	99	63.3	78.3	4.0	6.3	6.3	6.7	5.7	6.3	6.5	6.3	6.3
SE5STAR	3.4	99	70.0	76.7	4.0	6.3	6.5	6.6	5.7	6.3	6.6	6.2	6.3
TANGO	3.3	99	74.0	84.7	6.0	5.7	6.2	6.3	6.2	6.3	6.7	6.2	6.3
TANK (PPG-TF 338)	3.5	99	70.8	78.2	4.0	6.0	6.5	6.9	6.0	6.1	6.6	6.1	6.3
TAR HEEL III (PST-5THM)	3.2	99	70.8	79.8	5.0	5.7	6.5	6.7	5.9	6.1	6.4	6.0	6.3
TITAN GLX (TF445)	3.4	99	61.7	79.7	5.0	5.3	6.3	6.8	5.7	6.1	6.5	6.3	6.3
TITAN MAX (TF456)	3.3	99	65.8	78.2	4.7	6.0	6.5	6.7	5.7	6.1	6.3	6.3	6.3
ATF2116	3.6	99	63.3	81.3	3.7	6.7	6.5	6.5	5.5	6.1	6.3	6.1	6.2
BAR-FA8230	3.1	99	69.9	88.0	3.7	6.0	6.4	6.3	6.2	6.1	6.4	6.0	6.2
DLFPS-321/3695	3.4	99	61.6	76.3	4.3	6.0	6.7	6.9	5.3	6.0	6.3	6.1	6.2
DLFPS-321/3703	3.9	99	63.3	73.3	4.0	6.0	6.7	6.7	5.5	5.9	6.3	6.1	6.2
GLX REVIVE (PST-5GLBS)	3.4	99	67.4	81.3	4.7	5.7	6.3	6.4	5.9	6.1	6.5	6.1	6.2
JT 517	2.9	99	64.1	79.8	4.3	6.0	6.3	6.7	5.9	5.9	6.3	5.9	6.2
LBF	3.1	99	70.8	79.7	4.7	6.7	6.4	6.6	5.9	5.9	6.3	6.1	6.2
MONUMENT (PST-5SQB)	3.1	99	70.0	83.2	4.7	5.3	6.1	6.5	5.9	6.2	6.5	6.1	6.2
NAI-FQZ-17	3.8	99	70.0	76.7	4.7	5.7	6.1	6.6	6.1	6.3	6.5	5.7	6.2
NATURALLY GREEN	3.3	99	70.8	81.7	4.3	6.7	6.5	6.6	5.7	5.9	6.3	5.9	6.2
PST-SMINK	3.5	99	69.2	81.5	5.7	4.3	6.1	6.5	6.0	6.4	6.6	6.1	6.2
SR 8700 (TMT1)	3.5	99	64.0	79.5	4.0	6.7	6.6	6.7	5.3	5.8	6.3	6.2	6.2
A-TF31	3.1	99	71.5	74.8	5.0	6.0	6.0	6.5	5.8	5.9	6.4	5.8	6.1
BARNOBLE (BAR 9FE MAS)	3.3	99	69.1	86.3	6.7	5.0	5.6	5.9	5.8	6.3	6.7	6.4	6.1
DLFPS-321/3694	3.7	99	64.2	76.3	4.3	6.0	6.7	6.5	5.4	5.7	6.3	6.1	6.1
DLFPS-321/3707	3.5	99	66.6	76.5	4.0	6.3	6.4	6.7	5.6	5.8	6.3	6.1	6.1
GRAND PRIX (FC15-01P)	2.9	99	65.8	75.0	3.3	6.3	6.4	6.6	5.7	5.9	6.2	5.7	6.1
MOONDANCE GLX	3.8	99	68.3	74.8	5.0	5.7	6.5	6.3	5.5	6.1	6.3	6.2	6.1
RAD-TF131	2.9	99	75.6	86.3	7.0	4.3	5.3	6.3	6.3	6.4	6.7	6.2	6.1
ATF1768	3.3	99	63.3	73.2	4.0	6.3	6.5	6.7	5.5	5.5	6.1	5.9	6.0
BAR FA 8228	3.2	99	69.1	74.8	4.3	5.3	6.0	6.2	5.9	6.3	6.3	5.7	6.0
ESCALADE	3.2	99	67.5	83.0	4.7	6.0	6.0	6.3	5.7	5.8	6.5	5.9	6.0
LAFAYETTE (GO-AOMK)	3.5	99	73.2	86.5	5.7	4.3	5.5	6.2	5.9	6.1	6.6	5.7	6.0
RAD-TF 115 (TURBO SS)	2.8	99	75.6	74.8	6.0	5.0	5.5	6.3	6.2	6.0	6.4	5.9	6.0
OG-WALK	3.4	99	63.3	78.3	4.7	5.3	6.1	6.2	5.5	5.9	6.3	5.8	5.9
TOPSHELF (BGR-TF3)	3.5	99	59.2	63.3	3.7	6.7	6.7	6.7	5.1	5.4	5.8	5.7	5.9
PALOMAR	3.6	99	64.2	73.2	4.3	5.3	5.9	6.1	5.3	5.6	6.3	5.9	5.8
KENTUCKY-31	4.4	99	64.0	81.3	2.3	3.0	5.5	5.6	5.2	5.6	5.8	5.5	5.5
LSD VALUE	7.0	0	32.0	55.7	2.0	1.8	0.8	1.7	2.2	2.0	0.8	0.9	0.4
C.V. (%)	45.1	0	20.2	17.0	21.4	13.2	13.0	12.8	21.5	17.2	12.9	12.8	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 31.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER 1.5" MOWING HEIGHT AT BLACKSBURG, VA 1/  
2019-2023 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	PERCENT GROUND COVER SPRING	FALL	QUALITY RATINGS							MEAN
						APR	MAY	JUN	JUL	AUG	SEP	OCT	
BLADERUNNER 3 (DLFPS-321/3701)	7.3	6.0	8.0	99.0	99.0	7.3	6.8	6.7	6.6	6.3	6.9	7.5	6.8
GALLARDO (DLFPS-TF/3550)	7.0	6.0	8.0	99.0	96.0	7.2	6.9	6.4	6.6	6.3	6.9	7.4	6.8
SERENADE (PPG-TF 320)	7.0	6.0	8.0	99.0	99.0	7.0	6.7	6.3	6.3	6.4	7.3	7.3	6.8
TD2	7.3	6.0	8.0	99.0	94.7	7.5	6.7	6.5	6.5	6.5	6.9	7.3	6.8
5LSS	6.0	6.3	8.3	99.0	97.7	7.2	7.0	6.2	6.3	6.2	7.1	7.3	6.7
DLFPS-321/3708	7.3	6.0	8.0	99.0	99.0	7.2	6.5	6.3	6.4	6.5	6.9	7.5	6.7
TITAN GLX (TF445)	7.0	6.0	7.3	96.0	97.7	7.3	6.6	6.1	6.3	6.5	6.9	7.2	6.7
PPG-TF 312	7.0	5.7	7.7	92.7	99.0	7.3	6.7	6.0	6.3	6.0	6.8	7.4	6.6
RS1	7.0	5.7	7.7	99.0	96.3	7.3	6.5	6.4	6.1	6.1	6.9	7.3	6.6
TITANIUM G-LS (PPG-TF 255)	7.0	6.0	8.0	94.3	96.0	7.3	6.5	6.3	6.3	6.1	6.8	7.4	6.6
BULLSEYE LTZ	7.0	6.3	8.3	97.7	99.0	7.5	6.7	6.1	6.3	6.0	6.6	7.1	6.5
DEGAS (LTP-TF-111)	6.7	6.0	8.0	99.0	99.0	7.3	6.5	6.1	6.6	5.9	6.5	7.1	6.5
DLFPS-321/3706	7.0	6.0	8.0	99.0	99.0	7.2	6.7	6.2	6.5	5.9	6.8	7.1	6.5
ESSENTIAL 2 (DLFPS-TF/3552)	7.0	6.3	7.3	99.0	99.0	6.7	6.6	6.2	6.4	6.1	6.4	7.1	6.5
FIRENZA II (PPG-TF 244)	7.3	6.7	7.7	94.3	99.0	7.2	6.5	6.0	6.3	6.3	6.7	7.1	6.5
HOUNDOG NINE (DLFPS-321/3702)	7.0	6.0	7.3	99.0	99.0	7.2	6.3	6.2	6.3	6.1	6.7	7.0	6.5
PPG-TF 231	7.3	6.7	8.0	97.7	99.0	6.8	6.6	6.4	6.4	6.0	6.6	7.1	6.5
PPG-TF 337	7.3	6.0	8.0	97.7	99.0	6.7	6.7	6.1	6.3	6.1	6.4	6.9	6.5
RHL2	6.7	6.0	8.0	96.0	96.0	6.8	6.5	6.2	6.4	6.2	6.7	7.1	6.5
ROVER (PPG-TF 306)	7.0	5.7	8.0	94.3	96.0	7.0	6.5	6.2	6.5	5.9	6.5	7.3	6.5
SYMPHONY (PPG-TF 305)	6.7	6.0	7.7	96.0	96.0	7.0	6.4	6.1	6.3	5.8	6.7	7.1	6.5
ZION (BAR TF 134)	6.7	6.0	7.7	99.0	99.0	6.7	6.5	6.2	6.3	5.9	6.7	7.0	6.5
BATTLE HAWK (NAI-ROS4)	7.3	6.0	7.3	99.0	99.0	7.0	6.3	5.9	6.5	5.7	6.5	7.1	6.4
DLFPS-321/3695	7.3	6.0	7.3	97.7	97.7	6.8	6.3	6.1	6.3	5.7	6.5	7.1	6.4
DLFPS-321/3707	7.0	6.3	7.7	91.3	93.0	6.8	6.5	6.0	6.0	5.9	6.9	7.1	6.4
DLFPS-TF/3553	7.0	6.0	7.7	96.0	97.7	7.0	6.4	5.9	6.1	6.1	6.7	6.9	6.4
ENDGAME (3N1)	7.0	5.7	7.7	99.0	97.7	7.5	6.5	6.1	6.2	5.8	5.9	7.2	6.4
JT 517	7.3	6.0	7.7	99.0	99.0	6.8	6.5	6.1	6.1	5.7	6.7	7.3	6.4
NT-3	6.7	6.0	8.3	96.0	99.0	7.2	6.5	6.2	6.2	6.1	6.3	6.7	6.4
PPG-TF 318	7.0	6.7	7.7	96.0	99.0	7.0	6.3	6.1	6.3	6.0	6.3	7.1	6.4
RAPTOR LS (PPG-TF 336)	7.3	6.3	7.3	99.0	95.0	7.0	6.6	6.0	6.5	5.9	6.3	6.9	6.4
SPYDER 2LS (ZRC1)	7.0	6.3	7.7	96.0	94.7	7.2	6.3	6.1	6.2	5.7	6.5	7.1	6.4
TITAN MAX (TF456)	6.7	6.0	7.3	96.0	99.0	7.0	6.4	6.0	6.1	6.1	6.4	7.1	6.4
ATF1768	6.7	6.3	7.7	97.7	99.0	6.5	6.5	6.1	6.2	5.7	6.3	7.2	6.3
AVENGER III (PPG-TF 308)	7.0	5.7	7.7	91.3	99.0	7.2	6.1	5.9	6.2	5.8	6.5	7.1	6.3
BAR-FA8230	7.0	5.7	7.0	96.0	96.0	6.3	6.3	5.8	6.1	6.3	6.4	6.8	6.3
BONFIRE (JS DTT)	7.0	6.0	8.0	92.7	91.3	7.0	6.5	6.1	6.0	5.9	6.5	6.8	6.3
CAPTAN (DLFPS-321/3705)	7.0	6.3	7.7	88.0	93.0	6.7	6.2	6.0	5.9	5.6	6.6	7.1	6.3
EXPANSE (PPG-TF 262)	7.0	6.0	7.7	94.7	94.7	7.0	6.2	6.0	6.1	5.9	6.5	6.9	6.3
FALCON SUPREME (RH1)	7.3	5.7	7.3	89.7	91.7	6.8	6.3	5.7	5.9	5.7	6.5	7.1	6.3
FINELAWN SUPREME (RH3)	7.3	5.7	7.3	86.3	94.7	6.7	6.4	6.1	6.0	5.9	6.4	6.9	6.3
GALACTIC (SESCR1)	7.0	6.0	7.0	96.0	99.0	6.7	6.3	5.9	6.2	5.9	6.6	7.1	6.3
LIFEGUARD	6.7	6.0	7.7	99.0	93.3	6.7	6.3	6.1	6.1	5.7	6.4	7.0	6.3
PPG-TF 249	7.0	6.3	7.7	92.7	96.0	6.7	6.4	5.9	6.1	5.9	6.4	7.0	6.3
ROWDIER (DLFPS-321/3699)	7.0	6.0	7.3	94.3	94.7	6.8	6.1	6.1	6.0	5.9	6.3	7.0	6.3

TABLE 31.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER 1.5" MOWING HEIGHT AT BLACKSBURG, VA 1/  
2019-2023 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	PERCENT SPRING	GROUND COVER		QUALITY RATINGS						MEAN
					FALL		APR	MAY	JUN	JUL	AUG	SEP	
STEALTH (PPG-TF 238)	6.7	6.0	7.3	93.0	96.0	6.7	6.2	5.8	5.9	5.7	6.7	7.2	6.3
DAYBREAK (AH2)	6.7	6.0	7.7	93.0	95.0	6.7	6.1	6.0	6.5	5.3	6.1	6.9	6.2
DLFPS-321/3693	6.7	6.0	8.0	94.3	97.7	7.0	6.2	5.8	6.1	5.5	6.1	7.1	6.2
DLFPS-321/3703	6.7	6.0	7.3	99.0	96.0	7.2	6.3	5.9	6.2	5.6	6.2	6.7	6.2
FASTLANE (BY-TF-169)	6.7	6.0	8.0	94.7	99.0	6.5	6.1	5.8	6.4	5.5	6.6	6.6	6.2
GEM (PPG-TF 316)	7.0	6.0	8.0	93.0	97.7	7.2	6.3	5.8	6.2	5.6	6.5	6.8	6.2
HELLCAT GLR (PST-5E6)	7.0	6.3	7.0	96.0	93.0	7.0	6.4	5.9	6.0	5.7	6.2	6.9	6.2
MOONDANCE GLX	6.3	6.3	7.0	96.0	99.0	6.8	6.4	5.7	6.2	5.7	6.0	7.0	6.2
NAI-ST5	7.0	5.0	7.3	92.7	94.7	7.3	6.1	6.1	6.3	5.5	6.1	6.8	6.2
PADRE 2	7.0	5.3	7.0	99.0	96.3	6.8	6.4	5.9	6.0	5.3	6.3	6.7	6.2
PST-5TRN	7.0	6.0	8.0	92.7	97.7	6.8	6.1	5.9	6.1	5.4	6.3	7.0	6.2
RC4	7.0	5.7	8.0	92.7	99.0	6.5	6.3	5.8	6.1	5.7	6.5	6.9	6.2
TRIAD (PPG-TF 323)	7.0	6.3	8.0	89.7	97.7	6.7	5.9	5.6	6.0	5.8	6.6	6.9	6.2
DLFPS-321/3694	7.0	6.0	7.7	91.0	91.7	6.5	6.0	5.8	5.7	5.7	6.4	7.1	6.1
DRAGSTER	7.0	6.7	8.0	96.0	94.7	6.8	6.0	6.0	5.7	5.7	5.9	6.9	6.1
DYNAMITE G-LS (PPG-TF 254)	7.0	6.0	7.3	93.0	95.0	6.5	6.3	5.7	5.9	5.6	6.3	6.7	6.1
FIERCE (K18-RS6)	7.0	6.0	7.3	88.0	93.3	6.8	6.1	5.9	5.6	5.3	6.3	7.0	6.1
FIRECRACKER G-LS (PPG-TF 315)	7.0	6.0	8.0	92.7	94.7	7.0	6.3	5.5	6.0	5.5	6.3	6.7	6.1
OKEEFE (LTP-TF-122)	7.0	6.0	7.7	89.3	92.7	6.8	5.8	5.7	6.1	5.7	6.5	6.6	6.1
PARAMOUNT	7.0	5.7	7.7	93.0	94.7	6.5	5.9	5.9	5.9	5.5	6.1	7.0	6.1
PROVIDENCE (GO-RH20)	7.0	6.0	7.3	96.0	99.0	7.2	6.0	5.9	6.0	5.5	6.0	6.9	6.1
SETFM3	7.0	6.0	7.0	92.7	97.7	6.3	6.3	5.6	5.9	5.6	6.2	6.9	6.1
SR 8700 (TMT1)	7.0	6.0	8.0	96.0	96.0	7.2	6.2	5.9	5.8	5.4	6.2	6.6	6.1
EXTRAVAGANZA (PST-5MCMO)	7.0	6.3	7.0	96.0	94.7	6.5	6.2	5.5	5.6	5.5	6.3	6.6	6.0
GLX ACED (PST-5DART)	7.0	6.3	7.7	96.0	96.0	6.5	6.1	5.7	5.9	5.4	6.0	6.9	6.0
HEMI	6.7	6.0	7.3	91.3	97.7	7.0	5.9	5.7	5.9	5.4	6.3	6.7	6.0
JT 233	7.3	6.0	8.0	86.3	93.0	7.2	5.9	5.5	6.0	5.5	6.4	6.5	6.0
K18-WB1	7.0	5.7	7.7	93.0	91.7	6.8	5.9	5.6	5.8	5.5	6.2	6.8	6.0
PST-5DC24	7.7	6.0	7.0	96.0	96.0	6.7	6.3	5.5	5.8	5.3	6.0	6.8	6.0
PST-5GQ	6.7	5.7	7.0	92.7	94.7	6.3	6.1	5.6	5.7	5.3	6.3	6.7	6.0
RAPTOR III	6.7	6.0	7.7	89.7	93.3	6.5	6.1	5.7	5.9	5.5	5.9	6.7	6.0
TEACHER (PPG-TF 313)	7.0	5.7	8.0	90.0	96.3	6.7	5.9	5.5	6.0	5.5	6.2	6.9	6.0
TYCOON (COL-TF-148)	7.3	5.7	7.7	84.7	92.7	6.5	6.2	5.9	5.9	5.5	5.9	6.4	6.0
XANADU (JT 268 )	7.0	6.0	7.7	89.7	91.3	7.0	5.9	5.3	5.7	5.4	6.2	6.7	6.0
ATF2116	7.3	5.7	6.7	99.0	93.0	6.3	6.0	5.5	5.6	5.3	5.9	6.9	5.9
BRAVO 2	6.7	5.7	6.7	99.0	99.0	6.3	6.1	5.6	5.5	4.9	6.1	6.8	5.9
FAIRFIELD (SETF104)	7.3	6.3	7.0	92.7	96.3	6.5	5.9	5.6	5.5	5.3	6.1	6.7	5.9
KIZZLE (K18-ROE)	6.7	5.3	7.3	96.0	96.0	6.8	5.7	5.5	5.5	5.4	6.1	6.6	5.9
LBF	7.3	6.0	7.7	96.0	94.7	6.3	6.1	5.6	5.5	5.4	5.7	6.8	5.9
ORIOLE (PST-5BYOB)	7.0	6.0	7.0	96.0	93.0	6.8	6.1	5.7	5.8	5.1	5.8	6.7	5.9
PST-5DZM	7.0	6.0	6.7	92.7	96.0	6.5	5.9	5.4	5.7	5.4	5.9	6.7	5.9
RAD-TF 115 (TURBO SS)	7.0	6.3	7.7	96.0	96.0	7.0	6.0	5.6	5.6	5.2	5.9	6.7	5.9
RDC	7.0	6.3	7.3	83.3	94.7	7.0	5.9	5.3	5.8	5.3	6.5	6.5	5.9
SOUTHSIDE (PPG-TF 267)	7.0	6.0	8.0	61.7	93.0	7.5	5.9	5.5	5.7	5.2	6.1	6.6	5.9
TALLADEGA II (NAI-3N2)	7.0	6.0	7.3	94.7	94.7	6.8	5.9	5.4	5.8	5.4	5.9	6.8	5.9

TABLE 31.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
GROWN UNDER 1.5" MOWING HEIGHT AT BLACKSBURG, VA 1/  
2019-2023 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	PERCENT GROUND COVER		QUALITY RATINGS							MEAN
				SPRING	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	
TANK (PPG-TF 338)	7.0	6.0	8.0	91.3	89.7	6.8	6.0	5.9	5.6	5.3	6.3	6.3	5.9
VALSETZ (PPG-TF 257)	7.7	6.0	7.3	94.7	96.0	6.3	5.9	5.5	5.7	5.5	6.1	6.7	5.9
A-TF31	7.0	6.3	8.3	86.3	94.7	6.5	5.9	5.8	5.4	5.3	5.9	6.5	5.8
AST8218LM	7.7	5.7	6.0	96.0	93.0	6.3	5.9	5.6	5.5	5.0	6.0	6.8	5.8
BENTLEY (DLFPS-321/3679)	6.7	6.3	6.7	92.7	97.7	6.3	6.0	5.5	5.6	5.3	5.7	6.5	5.8
FAYETTE	7.3	6.0	6.7	92.7	94.7	6.7	5.9	5.6	5.3	4.8	6.1	6.7	5.8
FIREHAWK SLT	7.0	6.0	7.0	93.0	96.0	6.5	6.0	5.5	5.7	5.2	5.9	6.4	5.8
GLX REVIVE (PST-5GLBS)	6.3	5.7	7.3	89.7	94.3	6.7	5.7	5.4	5.5	5.1	5.8	6.7	5.8
GRANDE 3	7.0	5.7	7.3	92.7	99.0	6.7	5.8	5.5	5.6	5.3	5.8	6.6	5.8
K18-NSE	6.7	6.0	7.7	86.3	91.0	6.7	5.8	5.5	5.8	5.1	6.1	6.1	5.8
NAI-FQZ-17	7.3	5.0	6.7	89.7	93.0	6.2	5.6	5.4	5.7	5.3	6.1	6.8	5.8
NATURALLY GREEN	7.3	5.7	7.0	96.0	97.7	6.2	5.9	5.6	5.3	5.1	5.9	6.7	5.8
TOUGH (NAI-TUE)	7.3	6.0	7.0	86.7	96.3	6.5	5.7	5.5	5.9	4.9	5.9	6.7	5.8
3B2	7.3	6.0	7.7	91.3	96.0	6.3	5.8	5.4	5.4	5.3	5.9	6.4	5.7
ESTRENA	6.7	6.0	7.7	88.3	91.3	6.7	5.8	5.3	5.6	4.8	6.0	6.2	5.7
PRO GOLD	6.7	6.0	6.3	92.7	99.0	6.3	5.9	5.5	5.5	5.1	5.5	6.5	5.7
PST-5MINK	7.0	5.3	6.7	96.0	96.0	6.3	5.8	5.6	5.7	5.1	5.4	6.3	5.7
RACEWAY (DLFPS-321/3696)	7.0	5.7	7.3	91.3	93.0	6.5	5.7	5.4	5.5	5.5	5.8	6.3	5.7
RAD-TF105	7.3	6.0	7.3	92.7	96.0	7.0	5.7	5.2	5.6	5.0	5.8	6.5	5.7
SE5STAR	7.3	5.0	7.0	92.7	96.0	6.5	5.8	5.2	5.7	5.0	6.1	6.2	5.7
SETFM2	7.3	5.7	7.0	92.7	94.7	6.3	5.9	5.5	5.3	5.1	5.5	6.5	5.7
TAR HEEL III (PST-5THM)	7.0	6.0	7.0	93.0	93.0	6.2	5.9	5.3	5.7	4.8	5.6	6.3	5.7
TOPSHELF (BGR-TF3)	7.7	6.0	7.3	96.0	96.0	7.5	5.8	5.4	5.3	4.5	5.7	6.5	5.7
CLASH (AH1)	7.0	6.0	7.0	84.7	88.3	6.7	5.4	5.0	5.5	5.3	5.7	6.3	5.6
COPIOUS TF	7.7	5.3	7.3	96.0	96.3	6.8	5.9	5.2	5.3	4.7	5.7	6.5	5.6
GRO-PRO (SE53D2)	7.3	6.7	7.0	93.0	96.0	6.3	5.6	5.2	5.7	4.9	5.7	6.3	5.6
LAFAYETTE (GO-AOMK)	6.7	5.7	7.0	94.3	94.7	6.0	6.1	5.5	5.2	4.5	5.3	6.5	5.6
MONUMENT (PST-5SQB)	7.0	5.7	6.3	89.3	92.7	6.0	5.5	5.3	5.4	5.3	5.7	6.3	5.6
RAD-TF131	7.3	5.3	7.3	89.7	94.7	6.7	5.3	5.4	5.5	4.9	5.9	6.2	5.6
RHF	6.7	6.3	7.7	88.3	96.0	6.2	5.8	5.2	5.6	5.1	5.9	6.0	5.6
AST8118LM	7.0	6.0	7.0	99.0	94.7	6.0	5.8	5.1	5.2	4.9	5.7	6.3	5.5
BANDIT	7.3	5.7	7.7	92.7	94.7	6.3	5.7	5.2	5.3	4.6	5.4	6.4	5.5
BAR FA 8228	7.0	5.0	5.7	93.0	94.7	5.8	5.4	5.4	5.6	4.7	5.5	6.3	5.5
BARNOBLE (BAR 9FE MAS)	7.3	6.0	6.3	92.7	96.3	6.0	5.3	5.5	5.4	4.7	5.8	6.2	5.5
BULLSEYE	6.7	6.0	7.3	89.7	90.0	6.3	5.7	5.1	5.3	4.7	5.6	6.4	5.5
ESCALADE	6.0	5.7	6.0	96.0	94.7	6.5	5.5	5.5	5.2	4.5	5.7	6.1	5.5
TANGO	7.0	5.7	7.3	89.3	97.7	6.5	5.2	5.3	5.4	4.6	5.4	6.7	5.5
GRAND PRIX (FC15-01P)	6.7	5.7	6.7	89.3	89.7	6.0	5.3	5.1	4.9	4.8	5.8	6.3	5.4
BIRMINGHAM	6.7	5.3	6.0	88.0	94.7	6.0	5.3	5.0	5.1	4.7	5.2	6.1	5.3
PALOMAR	6.7	6.0	5.3	91.3	97.7	5.8	5.5	5.0	5.2	4.3	5.3	5.9	5.3
OG-WALK	6.3	5.0	5.7	92.7	97.7	6.2	5.4	5.1	5.0	4.5	4.9	5.8	5.2
KENTUCKY-31	3.0	2.0	3.3	78.3	88.3	2.7	3.1	3.1	2.9	2.6	2.8	3.3	3.0
LSD VALUE	0.8	1.1	1.0	53.1	22.7	1.2	0.9	0.9	1.0	0.9	0.7	0.6	0.6
C.V. (%)	6.5	9.4	8.4	9.9	4.8	12.8	17.9	19.3	20.1	22.4	16.3	12.8	14.0

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 32.

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/																			
	CT1	DE1	GA1	IA1	IN1	KS1	MI1	MO1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	VA1	MEAN
RAD-TF 115 (TURBO SS)	7.0	7.4	7.9	5.8	7.2	5.8	7.6	7.0	6.3	7.3	6.6	7.7	6.5	7.8	7.5	6.2	5.0	7.1	7.0	6.9
AST8218LM	6.8	7.6	8.0	5.9	6.7	5.3	7.2	6.7	6.8	7.5	6.7	7.6	7.0	7.7	6.9	6.8	4.7	6.9	7.7	6.9
RAD-TF131	7.2	7.6	7.8	5.3	6.5	5.8	7.6	7.0	6.5	7.3	6.6	7.7	6.6	7.6	7.1	7.2	4.9	6.9	7.3	6.8
SETFM2	6.9	7.5	7.9	5.6	7.2	5.7	7.4	5.7	6.6	7.5	6.7	7.7	6.7	6.7	6.9	7.2	5.0	6.9	7.3	6.8
TOPSHELF (BGR-TF3)	6.8	7.4	7.9	5.8	7.0	5.7	7.3	5.3	6.7	7.6	6.3	7.4	6.9	6.9	7.2	6.5	5.1	6.7	7.7	6.8
AST8118LM	6.9	7.6	7.8	5.3	6.8	5.2	7.2	6.0	6.7	7.3	6.5	8.3	6.9	7.0	7.3	6.7	4.9	6.5	7.0	6.8
TOUGH (NAI-TUE)	6.9	7.4	8.0	5.0	7.0	6.0	7.2	6.7	7.0	7.9	6.7	7.0	6.5	6.9	6.8	7.0	5.0	5.9	7.3	6.7
RAD-TF105	7.3	7.7	7.7	5.2	6.5	6.3	7.0	6.3	6.4	7.7	6.6	6.8	6.7	7.5	6.9	6.8	5.0	6.1	7.3	6.7
LBF	6.8	7.5	7.7	5.3	6.5	5.7	7.2	6.3	6.4	7.5	6.5	7.6	6.8	7.0	6.9	6.7	5.3	6.5	7.3	6.7
NATURALLY GREEN	6.9	7.4	7.6	5.6	6.5	6.2	7.0	5.3	6.1	7.5	6.6	7.1	6.7	6.9	6.9	7.5	5.2	6.6	7.3	6.7
COPIOUS TF	6.8	7.5	7.7	5.2	6.8	6.0	7.0	7.0	6.7	7.6	6.4	7.3	6.7	7.1	6.4	7.0	4.9	6.6	7.7	6.7
DLFPS-321/3708	7.0	7.4	7.7	5.1	6.8	5.5	7.0	6.3	6.4	7.5	6.7	7.2	6.6	6.8	7.3	6.5	4.9	7.1	7.3	6.7
LAFAYETTE (GO-AOMK)	6.8	7.1	8.1	5.4	7.0	5.8	7.1	6.3	6.2	7.7	6.9	6.9	6.8	6.9	6.8	6.8	4.7	6.7	6.7	6.7
BANDIT	6.8	7.7	7.5	5.5	7.0	5.3	7.1	6.0	6.7	7.5	6.6	7.3	6.6	7.1	6.7	7.0	4.7	6.3	7.3	6.7
SETFM3	7.1	7.2	7.8	5.2	7.5	5.7	7.1	7.3	6.1	7.6	6.6	7.1	6.5	7.2	6.9	6.8	5.0	6.3	7.0	6.7
XANADU (JT 268 )	6.9	7.2	7.9	4.5	6.5	6.3	7.3	8.0	6.6	7.5	6.7	7.6	6.7	7.3	7.1	6.7	4.6	6.0	7.0	6.7
ROWDIER (DLFPS-321/3699)	7.3	7.3	7.7	5.0	6.7	6.0	7.0	7.0	6.1	7.7	6.3	7.3	6.6	7.2	7.2	6.5	5.3	5.9	7.0	6.7
JT 517	6.8	7.7	7.8	5.5	6.7	5.3	7.1	6.3	6.2	7.3	6.6	7.1	6.5	6.9	6.8	6.8	5.1	6.4	7.3	6.7
TITANIUM G-LS (PPG-TF 255)	7.0	7.3	7.8	4.6	6.7	5.8	7.0	7.7	6.0	7.5	6.6	7.2	6.6	7.2	7.0	6.5	5.1	6.1	7.0	6.6
RACEWAY (DLFPS-321/3696)	6.8	7.3	8.0	4.8	6.2	6.7	7.0	6.3	6.5	7.6	6.4	6.6	6.6	7.2	6.8	6.7	4.9	6.1	7.0	6.6
A-TF31	6.9	7.7	7.7	4.9	6.5	5.3	6.6	6.0	6.3	7.5	6.4	7.7	6.7	6.6	6.8	7.0	4.8	6.3	7.0	6.6
TANK (PPG-TF 338)	6.8	7.3	7.6	4.8	7.0	5.8	7.0	7.0	6.6	7.6	6.6	6.4	6.5	7.0	6.9	6.8	5.1	6.0	7.0	6.6
JT 233	6.7	7.2	7.9	5.0	6.5	5.5	6.8	7.3	6.9	7.6	6.6	6.2	6.5	7.0	6.9	6.8	4.9	5.9	7.3	6.6
TRIAD (PPG-TF 323)	6.8	7.4	7.6	4.9	6.7	5.7	7.1	6.0	6.2	7.7	6.3	6.9	6.5	7.3	6.6	6.7	5.3	5.9	7.0	6.6
PST-5DC24	6.4	6.9	7.7	5.4	7.0	6.3	7.0	7.3	6.0	7.3	6.7	6.9	6.7	6.8	6.9	7.0	4.8	5.9	7.7	6.6
FAIRFIELD (SETF104)	6.9	7.3	7.8	5.0	6.8	5.8	7.0	6.7	6.1	7.3	6.6	6.3	6.5	6.8	6.9	7.2	4.9	6.1	7.3	6.6
ATF2116	6.4	6.9	7.7	5.0	7.2	6.0	6.8	5.3	6.3	7.5	6.4	7.2	6.6	6.6	6.8	6.7	4.9	6.5	7.3	6.6
HOUNDG NINE (DLFPS-321/3702)	6.8	7.3	7.6	5.1	7.0	5.8	7.3	6.7	6.1	7.3	6.3	6.6	6.6	7.0	7.2	6.7	4.8	5.9	7.0	6.5
ROVER (PPG-TF 306)	7.0	7.1	7.7	4.8	6.7	6.0	7.2	7.3	6.3	7.2	6.4	7.1	6.4	7.3	6.5	6.7	5.1	5.7	7.0	6.5
AVENGER III (PPG-TF 308)	6.8	7.3	7.7	5.7	6.7	5.8	7.1	6.7	6.3	7.1	6.4	6.9	6.5	6.8	7.2	6.8	4.7	5.7	7.0	6.5
NAI-ST5	6.6	7.2	7.9	4.7	6.7	5.8	7.2	6.7	6.5	7.8	6.7	6.3	6.5	6.6	6.7	7.2	4.7	5.9	7.0	6.5
NAI-FQZ-17	6.7	7.3	7.5	5.4	6.3	6.0	7.0	5.7	6.7	7.2	6.6	6.8	6.5	6.8	6.7	6.7	4.6	6.1	7.3	6.5
SOUTHSIDE (PPG-TF 267)	6.9	6.9	7.9	4.7	6.5	5.5	7.3	7.7	6.1	7.1	6.5	6.7	6.6	7.5	7.2	7.0	4.7	5.5	7.0	6.5
DLFPS-321/3703	6.8	6.9	7.7	5.2	6.7	5.8	7.0	6.7	6.4	7.4	6.5	6.6	6.6	7.0	6.8	7.0	4.9	5.7	6.7	6.5
BIRMINGHAM	6.7	6.8	7.5	5.3	6.8	5.8	7.0	6.7	6.6	7.6	6.6	6.8	6.5	6.6	6.3	6.3	4.9	6.1	6.7	6.5
BARNOBLE (BAR 9FE MAS)	6.8	7.4	7.3	5.8	6.0	5.2	7.1	6.7	6.3	7.8	6.5	6.8	6.6	6.8	6.8	6.5	4.8	5.4	7.3	6.5
SR 8700 (TMT1)	6.8	6.8	7.8	4.9	6.7	6.3	7.2	7.0	6.2	7.5	6.6	6.7	6.4	6.8	6.6	6.8	4.9	5.7	7.0	6.5
FIRECRACKER G-LS (PPG-TF 315)	6.8	7.3	7.9	4.8	6.5	5.3	7.2	7.0	6.2	7.1	6.5	6.6	6.5	6.8	6.7	6.7	5.0	6.0	7.0	6.5
FALCON SUPREME (RH1)	6.8	7.1	7.5	4.8	6.7	6.3	7.2	6.3	5.9	7.7	6.5	6.4	6.4	6.6	6.9	6.8	5.1	5.9	7.3	6.5
DLFPS-321/3707	6.7	7.1	7.7	4.8	6.8	5.3	7.0	7.7	6.3	7.4	6.4	6.2	6.5	6.8	7.1	6.7	5.2	5.6	7.0	6.5
BLADERUNNER 3 (DLFPS-321/3701)	6.8	7.1	7.8	4.9	6.8	5.8	7.0	6.7	6.3	7.4	6.6	6.3	6.5	6.9	6.7	6.3	4.7	5.7	7.3	6.5
PPG-TF 249	6.8	7.0	7.9	5.0	6.5	5.8	7.1	6.3	6.3	7.3	6.4	6.3	6.7	6.9	6.8	6.8	4.9	5.4	7.0	6.5
ENDGAME (3N1)	6.6	7.1	7.7	5.1	6.7	6.0	7.3	6.0	6.2	7.5	6.4	6.9	6.4	7.0	6.7	7.2	4.5	5.6	7.0	6.5
EXPANSE (PPG-TF 262)	6.8	7.3	7.7	4.9	6.5	5.8	7.1	6.3	6.3	6.9	6.4	6.8	6.5	7.0	6.6	6.3	5.0	5.9	7.0	6.5
GEM (PPG-TF 316)	6.7	7.1	7.7	5.0	6.8	5.8	7.0	7.0	5.9	7.5	6.4	6.8	6.5	7.0	6.6	6.8	4.7	5.7	7.0	6.5
GALLARDO (DLFPS-TF/3550)	6.6	7.1	7.6	5.1	6.8	6.0	7.0	6.0	5.9	7.3	6.5	5.9	6.7	7.0	6.8	6.8	5.1	5.8	7.0	6.5

TABLE 32.  
(CONT'D)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	GA1	IA1	IN1	KS1	MI1	MO1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	VA1	MEAN
DLFPS-321/3694	6.8	6.9	7.9	4.8	6.3	5.5	7.2	6.0	6.1	7.3	6.5	6.8	6.5	6.7	6.9	6.7	4.9	5.7	7.0	6.5
SYMPHONY (PPG-TF 305)	6.6	6.8	7.5	4.7	6.8	5.7	7.0	7.0	6.1	7.4	6.6	6.8	6.6	6.8	7.0	6.8	4.8	5.8	6.7	6.5
TALLADEGA II (NAI-3N2)	6.8	7.2	7.4	4.7	6.8	5.7	7.0	7.0	6.3	7.2	6.5	6.4	6.5	6.8	6.6	6.8	5.1	5.7	7.0	6.5
PPG-TF 231	6.8	7.3	7.5	4.8	6.7	5.8	7.0	6.0	6.3	7.4	6.4	6.4	6.5	7.1	6.7	6.5	4.7	5.6	7.3	6.5
BENTLEY (DLFPS-321/3679)	6.6	7.3	7.4	4.8	6.8	6.3	7.0	5.3	5.7	6.9	6.7	7.4	6.5	7.0	6.5	6.5	5.1	5.7	6.7	6.5
DLFPS-TF/3553	6.7	7.1	7.8	4.9	6.5	5.8	7.1	6.3	5.9	7.3	6.4	6.4	6.5	6.9	6.7	6.7	4.9	5.6	7.0	6.4
BONFIRE (JS DTT)	6.9	6.9	7.4	4.4	6.3	5.8	7.2	6.3	6.5	7.5	6.6	5.9	6.5	6.9	6.7	6.5	5.1	5.5	7.0	6.4
TD2	6.8	7.1	7.7	4.9	6.5	5.8	7.1	5.7	6.1	7.3	6.6	5.4	6.5	6.4	6.8	6.5	5.2	5.7	7.3	6.4
K18-WB1	6.8	7.1	7.7	4.8	6.5	6.2	7.0	5.3	6.1	7.3	6.5	5.8	6.5	6.8	6.6	7.0	4.8	5.7	7.0	6.4
FIRENZA II (PPG-TF 244)	6.7	7.2	7.6	4.4	6.2	5.5	7.0	6.0	6.1	7.4	6.6	6.9	6.5	6.8	6.8	6.5	4.7	5.7	7.3	6.4
VALSETZ (PPG-TF 257)	6.8	7.0	7.6	4.8	6.2	5.8	7.0	7.0	6.4	7.4	6.1	6.6	6.4	6.9	6.4	6.3	4.9	5.5	7.7	6.4
RAPTOR III	6.9	6.9	7.5	4.5	6.2	5.8	7.1	7.7	6.2	7.1	6.6	6.0	6.4	6.7	6.6	7.0	5.1	5.7	6.7	6.4
TANGO	6.6	6.8	7.7	5.1	6.7	5.8	7.0	5.7	6.0	7.4	6.3	6.4	6.5	6.9	6.3	6.3	4.9	5.6	7.0	6.4
PROVIDENCE (GO-RH20)	6.8	7.0	7.5	4.5	6.0	5.8	7.0	7.0	5.5	7.6	6.6	6.4	6.5	7.1	6.7	6.7	4.9	5.6	7.0	6.4
PST-5MINK	6.6	6.8	7.5	5.0	6.3	5.5	7.0	6.7	6.3	7.3	6.6	6.6	6.5	7.0	6.5	6.5	4.8	5.4	7.0	6.4
PADRE 2	6.6	7.0	7.4	4.9	6.7	5.5	7.0	5.7	6.4	6.9	6.6	6.4	6.5	6.5	6.8	7.3	4.7	5.8	7.0	6.4
BRAVO 2	6.7	7.0	7.5	5.0	6.5	5.8	6.8	5.3	6.2	7.2	6.3	6.9	6.5	6.8	6.3	6.7	4.7	5.9	6.7	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.6	7.1	7.5	4.5	6.8	5.8	7.0	5.7	6.5	7.3	6.4	6.2	6.4	6.4	6.5	6.5	4.9	5.9	7.0	6.4
CLASH (AH1)	6.8	7.1	7.7	4.1	6.5	5.8	7.0	5.3	6.3	7.3	6.3	6.2	6.4	6.6	7.0	6.8	4.9	5.6	7.0	6.4
RC4	6.9	6.7	7.5	4.9	6.5	5.7	7.1	6.3	6.1	7.1	6.6	5.8	6.5	6.9	6.3	6.8	5.0	5.7	7.0	6.4
DLFPS-321/3693	7.1	6.9	7.3	4.7	6.3	6.2	7.0	6.3	6.0	7.3	6.5	6.3	6.4	6.4	6.8	6.3	4.9	5.7	6.7	6.4
BULLSEYE LTZ	6.9	6.8	7.6	4.5	7.0	5.8	7.0	6.0	5.7	7.4	6.5	6.0	6.5	6.9	6.7	6.8	4.7	5.5	7.0	6.4
NT-3	6.7	6.7	7.4	4.6	6.3	5.8	7.0	5.7	6.1	7.5	6.5	6.3	6.6	6.7	6.5	6.7	5.1	5.6	6.7	6.4
ATF1768	6.5	7.3	7.5	5.0	6.8	5.8	7.1	6.0	5.5	7.3	6.4	6.4	6.6	6.7	6.2	6.5	5.1	5.5	6.7	6.4
FAYETTE	6.5	6.9	7.3	5.3	6.7	6.0	7.0	6.3	6.1	7.0	6.4	6.8	6.5	6.8	6.4	6.2	4.5	5.6	7.3	6.4
PPG-TF 318	6.8	7.0	7.5	4.6	6.0	5.8	6.9	6.0	5.9	7.1	6.6	6.3	6.6	6.8	6.4	6.8	4.7	5.9	7.0	6.4
RHL2	6.9	6.8	7.5	4.4	6.7	6.0	7.0	6.7	6.2	6.9	6.6	6.1	6.3	6.9	6.5	6.3	4.9	5.8	6.7	6.4
STEALTH (PPG-TF 238)	6.5	6.9	7.7	4.8	6.7	5.7	7.0	6.7	6.3	7.2	6.6	5.7	6.5	7.0	6.6	6.3	4.6	5.6	6.7	6.4
PARAMOUNT	6.9	6.8	7.3	5.1	6.3	6.0	7.2	6.3	6.2	7.3	6.5	5.7	6.3	6.7	6.3	6.5	4.9	5.5	7.0	6.4
FIREHAWK SLT	6.6	7.1	7.5	4.3	6.5	6.0	7.0	6.3	6.2	7.1	6.3	6.7	6.4	6.7	6.5	6.7	4.9	5.7	7.0	6.4
DYNAMITE G-LS (PPG-TF 254)	6.6	7.0	7.8	5.1	7.0	6.0	7.0	5.0	5.8	6.9	6.5	6.0	6.5	6.8	6.3	6.5	5.0	5.5	7.0	6.3
3B2	6.7	6.8	7.6	4.8	6.3	5.8	7.2	5.7	5.9	7.2	6.5	6.2	6.4	7.0	6.3	6.8	4.8	5.3	7.3	6.3
BATTLE HAWK (NAI-ROS4)	6.7	6.8	7.7	4.3	6.7	6.0	7.1	5.7	6.2	7.1	6.5	5.8	6.5	6.7	6.6	6.7	4.9	5.5	7.3	6.3
CAPITAN (DLFPS-321/3705)	6.8	6.6	7.7	4.7	5.8	5.7	7.2	6.7	6.0	7.3	6.7	5.8	6.3	6.8	6.4	6.5	5.1	5.5	7.0	6.3
PPG-TF 337	6.7	6.8	7.7	4.4	5.8	5.8	7.1	4.7	6.2	7.3	6.4	6.1	6.5	6.8	6.8	6.0	5.1	5.5	7.3	6.3
DAYBREAK (AH2)	7.1	6.8	7.6	4.0	6.3	5.8	7.1	6.7	5.8	7.2	6.5	6.3	6.5	6.7	6.6	6.7	4.8	5.5	6.7	6.3
DEGAS (LTP-TF-111)	6.8	6.8	7.5	4.5	6.5	6.0	7.0	5.3	6.0	7.0	6.5	5.8	6.3	6.7	6.4	6.7	5.4	5.4	6.7	6.3
SERENADE (PPG-TF 320)	6.7	7.0	7.7	4.5	6.5	5.8	7.0	7.0	6.1	6.9	6.6	5.9	6.5	6.7	6.3	6.3	4.7	5.4	7.0	6.3
DLFPS-321/3695	6.7	6.4	7.5	5.0	6.3	6.0	6.8	5.0	5.8	7.2	6.4	6.2	6.4	6.7	6.6	6.5	4.7	5.8	7.3	6.3
GRANDE 3	6.8	6.8	7.5	4.5	7.0	6.0	6.9	6.0	5.8	7.3	6.1	5.7	6.5	6.6	6.4	7.0	5.1	5.5	7.0	6.3
FASTLANE (BY-TF-169)	6.5	6.8	7.8	4.6	6.3	5.8	7.0	6.0	5.8	6.9	6.7	5.7	6.5	6.8	6.8	6.5	4.8	5.3	6.7	6.3
GALACTIC (SESCR1)	6.5	6.8	7.6	4.8	6.0	5.7	7.0	5.7	5.9	7.2	6.6	5.8	6.3	6.7	6.2	7.0	4.9	5.6	7.0	6.3
OKEEFE (LTP-TF-122)	6.8	6.9	7.5	4.4	6.3	5.3	7.0	7.0	5.9	6.9	6.6	5.8	6.3	6.8	6.5	6.8	4.9	5.4	7.0	6.3
BULLSEYE	6.6	6.9	7.3	4.4	6.7	5.8	6.8	5.7	6.1	7.0	6.6	6.3	6.4	7.2	5.9	6.3	4.9	5.4	6.7	6.3
TYCOON (COL-TF-148)	6.8	6.8	7.9	4.6	6.3	5.5	7.0	7.3	6.0	7.0	6.6	5.2	6.3	6.8	6.3	6.0	4.8	5.4	7.3	6.3
RAPTOR LS (PPG-TF 336)	6.7	6.9	7.5	4.7	5.8	5.8	7.0	5.3	6.3	7.1	6.5	5.7	6.5	6.5	6.4	6.3	4.7	5.5	7.3	6.3
PST-5DZM	6.4	6.9	7.7	4.6	6.7	5.8	6.8	6.0	5.7	7.3	6.3	5.9	6.4	6.8	6.3	6.3	4.7	5.7	7.0	6.3

TABLE 32.  
(CONT'D)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	GA1	IA1	IN1	KS1	MI1	MO1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	VA1	MEAN
TITAN GLX (TF445)	6.7	7.3	7.3	4.3	6.5	5.7	6.9	6.0	6.1	7.3	6.3	5.6	6.5	6.5	6.4	6.5	4.8	5.5	7.0	6.3
SE5STAR	6.3	6.9	7.3	4.9	6.5	6.0	7.0	6.3	6.4	7.1	6.5	6.1	6.5	6.4	5.9	6.3	4.7	5.2	7.3	6.3
TITAN MAX (TF456)	6.7	6.7	7.3	4.4	6.7	5.5	7.0	6.3	5.7	7.3	6.6	5.7	6.3	7.0	6.0	6.5	4.9	5.7	6.7	6.2
RS1	6.7	6.8	7.6	4.8	6.3	5.7	7.0	5.7	5.9	7.1	6.2	5.8	6.4	6.8	6.3	6.5	4.6	5.3	7.0	6.2
ZION (BAR TF 134)	6.8	6.7	7.5	4.3	6.0	6.2	7.3	5.7	6.1	7.1	6.5	5.1	6.3	6.7	6.2	6.3	4.8	5.5	6.7	6.2
HEMI	6.7	6.5	7.5	4.7	6.7	5.3	7.0	5.7	5.8	7.1	6.4	6.1	6.3	6.8	6.3	6.3	4.7	5.5	6.7	6.2
GLX ACED (PST-5DART)	6.3	6.8	7.2	4.5	6.5	6.3	6.8	6.0	6.2	7.3	6.3	5.2	6.4	6.8	6.2	6.0	5.0	5.3	7.0	6.2
KIZZLE (K18-ROE)	6.8	6.9	7.1	4.8	6.0	6.0	7.0	6.3	5.7	7.3	5.9	5.1	6.4	6.7	6.3	6.5	4.9	5.5	6.7	6.2
PST-5GQ	6.4	6.7	7.5	5.0	5.7	5.8	7.0	5.7	5.9	6.9	6.6	5.7	6.5	6.7	5.9	6.0	4.8	5.5	6.7	6.2
SPYDER 2LS (ZRC1)	6.7	6.7	7.5	4.1	6.3	5.5	7.1	6.0	5.9	6.9	6.5	5.6	6.5	6.8	6.1	6.3	4.8	5.3	7.0	6.2
TEACHER (PPG-TF 313)	6.8	6.8	7.3	4.3	6.8	5.5	6.9	5.0	6.1	6.5	6.6	5.2	6.5	6.8	6.6	6.3	4.7	5.2	7.0	6.2
BAR-FA8230	6.5	6.6	7.1	4.5	6.5	6.0	7.0	5.3	5.7	6.9	6.4	6.2	6.5	6.8	6.2	6.3	4.9	5.2	7.0	6.2
FIERCE (K18-RS6)	6.6	6.5	7.5	4.3	6.7	6.3	7.0	7.0	5.9	7.1	6.5	5.2	6.4	6.4	5.8	6.5	4.9	5.1	7.0	6.2
DRAGSTER	6.6	6.8	7.3	4.2	5.8	5.8	7.1	5.0	5.9	6.9	6.6	5.6	6.5	6.4	6.4	6.2	4.9	5.3	7.0	6.2
ORIOLE (PST-5BYOB)	6.4	6.7	7.3	4.3	6.0	6.2	7.0	4.7	5.9	7.4	6.5	6.2	6.5	6.2	6.3	6.3	4.7	4.9	7.0	6.2
GRAND PRIX (FC15-01P)	6.2	6.7	7.0	4.8	6.7	5.8	6.8	6.0	5.7	7.0	6.3	6.7	6.6	6.0	6.2	6.0	4.7	5.6	6.7	6.2
OG-WALK	6.1	6.7	7.3	4.9	6.3	5.3	6.8	5.0	6.0	6.9	6.6	6.8	6.3	6.2	6.2	6.0	4.7	5.3	6.3	6.2
GLX REVIVE (PST-5GLBS)	6.3	6.5	7.5	4.8	6.7	6.2	6.8	5.7	5.8	6.7	6.4	5.6	6.5	6.5	6.0	6.5	4.7	5.1	6.3	6.1
PALOMAR	6.2	6.3	7.0	5.2	6.2	6.0	6.8	5.7	5.9	6.7	6.6	6.9	6.4	6.6	6.2	6.2	4.3	5.2	6.7	6.1
LIFEGUARD	6.3	6.5	7.4	4.3	6.7	5.7	7.0	5.0	5.6	6.9	6.5	5.9	6.4	6.6	5.8	6.7	4.9	5.3	6.7	6.1
GRO-PRO (SE53D2)	6.3	6.4	7.7	4.6	6.0	5.8	7.0	6.0	5.9	7.1	6.5	5.3	6.4	6.6	5.9	6.2	4.7	4.9	7.3	6.1
ESCALADE	6.2	6.7	7.0	4.8	6.5	5.5	6.6	5.3	6.4	6.9	6.4	5.9	6.4	6.5	5.8	6.0	4.9	5.4	6.0	6.1
BAR FA 8228	6.3	6.5	7.2	5.5	6.5	5.8	6.7	6.3	5.9	6.1	6.5	6.3	6.4	6.3	5.6	6.0	4.9	5.2	7.0	6.1
PST-5TRN	6.4	6.4	7.3	4.7	6.2	5.5	6.5	5.3	6.2	6.9	6.4	5.3	6.5	6.9	6.1	5.8	4.7	5.1	7.0	6.1
RDC	6.7	6.7	7.2	4.2	6.3	5.3	6.9	5.0	5.7	6.9	6.6	5.3	6.4	6.3	6.4	6.8	4.9	5.1	7.0	6.1
ESTRENA	6.7	6.4	7.1	4.4	6.3	5.8	7.1	6.0	6.1	6.7	6.7	5.3	6.2	6.4	6.1	6.0	4.7	5.1	6.7	6.1
RHF	6.8	6.8	7.3	4.2	6.5	5.7	7.0	5.3	5.5	6.9	6.4	5.4	6.4	6.4	6.3	6.3	4.6	5.1	6.7	6.1
MONUMENT (PST-5SQB)	6.2	6.6	7.1	4.8	6.2	6.2	7.0	5.3	6.0	7.1	6.5	5.3	6.1	6.2	6.1	6.2	4.8	5.1	7.0	6.1
TAR HEEL III (PST-5THM)	6.4	6.7	7.1	4.8	6.2	5.5	7.0	5.0	5.7	7.0	6.5	5.3	6.3	6.4	6.3	6.2	4.7	4.9	7.0	6.1
DLFPS-321/3706	6.6	6.4	7.5	4.3	6.2	5.7	7.0	5.0	5.6	7.1	6.4	4.8	6.3	6.4	6.3	6.3	4.8	5.2	7.0	6.1
PPG-TF 312	6.8	6.5	7.3	4.1	6.3	5.7	7.0	5.3	6.0	6.5	6.5	4.6	6.4	6.5	6.4	6.5	4.7	5.1	7.0	6.1
FINELAWN SUPREME (RH3)	6.3	6.7	7.2	4.3	6.0	6.2	7.0	5.0	5.8	7.0	6.5	4.8	6.4	6.3	6.3	6.5	4.9	4.9	7.3	6.1
EXTRAVAGANZA (PST-5MCMO)	6.4	6.7	7.3	4.4	5.7	6.2	6.9	5.7	5.8	6.9	6.0	5.2	6.3	6.6	6.0	6.3	4.8	5.3	7.0	6.1
K18-NSE	6.7	6.1	7.4	4.4	6.3	6.5	7.1	5.0	5.6	6.7	6.3	4.9	6.2	6.5	6.0	6.5	4.8	5.1	6.7	6.0
MOONDANCE GLX	6.4	6.5	7.1	4.4	5.8	5.5	6.7	5.7	5.7	7.1	6.5	4.8	6.4	6.4	6.1	6.2	4.9	5.2	6.3	6.0
PRO GOLD	6.3	6.3	7.1	4.6	6.3	6.2	6.7	5.7	6.0	6.6	6.5	4.8	6.1	6.1	5.9	6.5	5.0	5.1	6.7	6.0
HELLCAT GLR (PST-5E6)	6.3	6.1	7.0	4.4	5.8	6.0	6.6	4.7	5.5	6.9	6.4	5.1	6.1	6.3	6.1	6.5	4.6	5.2	7.0	5.9
5LSS	6.7	6.3	7.5	4.3	6.5	5.3	7.1	5.7	5.5	6.9	6.1	3.7	6.1	6.5	5.7	5.7	5.1	4.9	6.0	5.9
KENTUCKY-31	4.3	4.3	5.3	3.8	5.3	5.5	4.3	2.7	4.4	3.9	4.5	1.2	3.8	5.2	3.4	4.5	4.2	3.1	3.0	4.1
LSD VALUE	0.8	0.9	0.9	1.3	1.0	1.1	0.5	1.2	0.9	0.8	0.6	1.6	0.5	0.9	0.9	1.0	0.9	0.9	0.7	0.3
C.V. (%)	7.0	8.1	8.0	19.4	9.5	12.6	4.4	12.2	9.1	7.5	5.6	16.7	5.4	8.3	9.1	9.3	11.8	9.6	6.6	9.3

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

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



TABLE 33.

 SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/  
 2019-23 DATA

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

NAME	CT1	DE1	IA1	IN1	MD1	NC1	NE1	NJ1	NJ2	ON1	OR1	PA2	TN1	UT1	MEAN
FAYETTE	6.2	7.6	7.2	5.5	8.2	6.0	5.4	7.0	4.3	5.3	4.3	6.3	8.1	3.8	6.2
PPG-TF 231	6.3	7.0	6.9	4.8	8.5	6.0	5.8	6.8	3.0	5.4	4.3	6.8	7.9	4.0	6.2
DLFPS-321/3695	6.7	8.1	6.4	5.7	8.7	5.7	5.7	6.2	4.3	4.0	3.0	6.8	8.6	4.4	6.1
FIRENZA II (PPG-TF 244)	6.6	7.9	6.1	6.2	8.7	7.0	5.3	6.3	4.7	4.8	3.3	7.2	8.1	4.0	6.1
KIZZLE (K18-ROE)	6.4	8.0	6.6	6.0	8.2	6.3	5.3	7.3	4.0	4.7	3.0	6.7	8.1	3.5	6.1
CLASH (AH1)	6.6	8.2	6.5	4.3	8.3	6.0	5.4	5.8	5.3	5.2	3.7	6.5	8.3	4.0	6.1
DLFPS-321/3694	6.7	7.3	6.5	5.5	8.8	5.7	6.1	6.5	3.7	4.8	3.0	5.8	8.3	4.0	6.1
KENTUCKY-31	4.9	6.8	4.8	6.7	8.3	6.3	4.8	8.8	4.3	7.0	5.0	4.7	8.3	4.4	6.1
DLFPS-321/3707	6.2	7.6	6.9	5.3	8.7	6.0	5.6	6.0	4.0	4.4	4.0	6.7	8.2	4.0	6.1
K18-WB1	6.3	7.7	5.9	5.8	8.8	6.3	5.3	6.8	6.0	5.3	2.7	6.3	8.0	3.9	6.1
EXPANSE (PPG-TF 262)	6.3	7.4	6.9	4.5	8.5	6.7	5.3	6.2	3.3	4.9	4.0	6.5	8.1	4.3	6.1
PARAMOUNT	6.4	7.1	7.1	4.8	8.3	6.3	5.4	6.0	3.7	4.9	3.7	5.7	8.3	4.3	6.1
TITAN MAX (TF456)	6.3	7.2	6.7	4.8	8.7	6.3	5.4	7.0	3.0	4.9	4.0	6.5	8.0	3.9	6.1
BIRMINGHAM	5.7	7.0	7.3	5.3	7.7	7.7	4.8	6.3	3.3	4.3	4.3	6.8	8.3	4.3	6.1
NATURALLY GREEN	6.7	7.2	7.3	4.7	8.0	7.0	5.8	5.0	3.0	5.3	4.0	6.0	7.9	3.8	6.0
GALACTIC (SESCR1)	6.4	7.4	6.7	4.8	8.7	7.0	5.2	5.8	4.0	4.3	3.7	7.3	8.2	3.8	6.0
PADRE 2	6.3	8.0	6.5	5.2	8.5	6.3	5.2	6.5	4.0	4.3	5.0	6.2	8.0	3.9	6.0
GRANDE 3	6.4	7.4	6.6	5.8	8.7	6.3	5.4	6.0	5.3	4.5	3.3	6.5	7.9	3.8	6.0
PROVIDENCE (GO-RH20)	6.4	7.7	6.4	4.3	8.7	6.7	5.2	6.0	4.3	4.9	4.3	6.7	8.1	4.0	6.0
AVENGER III (PPG-TF 308)	6.3	7.2	6.6	5.0	8.7	6.3	5.4	6.0	3.7	5.1	5.0	5.7	7.9	4.2	6.0
K18-NSE	6.2	7.7	6.1	6.0	8.7	6.7	5.0	6.8	3.7	4.3	4.0	6.0	8.3	4.2	6.0
TALLADEGA II (NAI-3N2)	6.2	7.8	6.4	4.7	8.5	7.3	5.3	6.2	3.3	4.9	3.0	6.0	8.3	3.7	6.0
DYNAMITE G-LS (PPG-TF 254)	6.2	7.6	6.7	4.8	8.5	6.3	5.0	6.3	2.3	4.9	4.3	6.3	8.0	3.9	6.0
DLFPS-321/3693	6.6	7.6	6.5	4.7	8.7	6.0	5.7	6.2	4.0	4.5	2.7	5.8	8.3	4.0	6.0
EXTRAVAGANZA (PST-5MCMO)	6.1	7.2	6.8	5.0	8.5	6.0	5.1	5.8	3.3	4.6	4.0	6.8	8.2	3.8	6.0
ESTRENA	6.2	7.8	6.1	5.2	8.5	6.0	5.1	7.0	3.7	4.8	2.7	6.0	8.2	4.3	6.0
BARNOBLE (BAR 9FE MAS)	6.1	8.0	6.3	4.7	8.3	6.0	5.5	5.0	5.0	6.1	3.0	6.0	7.8	3.7	6.0
TYCOON (COL-TF-148)	6.3	7.1	6.1	4.8	8.7	5.7	5.7	5.8	3.7	5.1	3.7	5.7	8.3	4.3	6.0
BULLSEYE	6.1	7.1	6.6	5.5	8.2	5.3	5.3	5.8	3.3	5.5	4.0	6.0	8.2	3.9	6.0
ESCALADE	6.2	7.3	6.3	5.2	8.2	6.3	4.9	6.8	4.0	5.3	4.0	6.0	7.9	3.6	5.9
DEGAS (LTP-TF-111)	6.3	7.3	6.1	4.3	8.5	6.3	5.2	6.8	3.7	4.8	3.7	6.5	8.1	4.2	5.9
DLFPS-321/3703	6.1	7.4	7.1	5.0	8.5	7.0	5.0	5.5	2.7	4.4	3.7	6.0	8.3	4.0	5.9
PALOMAR	6.0	7.6	7.0	4.3	8.3	6.3	5.3	5.3	2.7	4.4	4.3	6.7	8.3	3.8	5.9
DAYBREAK (AH2)	6.6	7.3	5.9	4.5	8.7	6.3	5.0	6.2	4.3	4.6	3.3	6.8	8.7	3.9	5.9
PPG-TF 249	6.0	7.1	7.1	4.5	8.3	6.0	5.2	5.2	2.3	4.9	4.0	6.8	8.2	4.0	5.9
DLFPS-321/3706	6.2	6.9	6.1	5.3	8.5	6.0	5.1	5.8	4.3	4.9	3.3	6.8	8.4	4.0	5.9
3B2	6.1	7.2	6.5	4.5	8.5	6.3	5.1	6.5	4.3	4.8	4.0	5.5	8.0	4.2	5.9
FALCON SUPREME (RH1)	5.8	7.9	6.2	6.0	8.7	6.7	5.0	6.5	4.0	4.0	3.0	6.3	8.4	3.5	5.9
LIFEGUARD	6.0	7.3	5.9	4.7	8.2	6.0	5.1	6.2	4.7	5.8	2.7	6.0	8.2	4.1	5.9
BLADERUNNER 3 (DLFPS-321/3701)	6.2	7.1	6.7	5.8	8.5	7.0	5.3	5.2	3.0	4.4	3.3	5.8	8.1	4.0	5.9
BATTLE HAWK (NAI-ROS4)	6.4	7.3	6.4	5.3	8.0	6.7	5.3	6.7	4.7	4.0	3.3	5.7	8.0	3.8	5.9
TAR HEEL III (PST-5THM)	5.9	7.3	6.7	4.7	8.3	6.0	5.3	5.2	3.3	4.9	4.0	5.7	8.6	3.8	5.9
SOUTHSIDE (PPG-TF 267)	6.2	6.8	7.1	4.5	7.8	6.3	5.5	5.5	3.0	4.7	3.7	6.8	8.1	3.5	5.9
ENDGAME (3N1)	5.9	6.8	6.7	4.8	8.0	6.3	5.2	5.8	3.7	4.7	4.0	7.0	8.0	3.7	5.9
MONUMENT (PST-5SQB)	5.9	7.6	6.1	4.7	8.3	6.0	5.4	6.8	3.3	4.5	3.7	6.7	8.0	3.7	5.9
FIREHAWK SLT	6.1	7.1	6.9	4.8	8.3	6.0	5.0	5.8	3.0	4.4	3.7	6.0	8.2	4.1	5.9

TABLE 33.  
(CONT'D)

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IA1	IN1	MD1	NC1	NE1	NJ1	NJ2	ON1	OR1	PA2	TN1	UT1	MEAN
PPG-TF 318	6.0	6.7	6.5	4.5	8.5	6.0	5.2	6.2	2.3	5.4	3.3	6.7	8.3	3.6	5.9
SPYDER 2LS (ZRC1)	6.3	7.3	5.9	4.3	8.5	6.3	5.6	6.3	3.0	4.8	3.3	7.5	7.8	3.7	5.9
FINELAWN SUPREME (RH3)	6.1	7.6	5.9	5.5	8.3	6.0	5.2	6.3	3.7	4.3	3.7	6.3	8.2	4.3	5.9
BENTLEY (DLFPS-321/3679)	6.1	7.0	7.2	5.5	8.2	6.3	5.3	5.3	2.3	4.3	4.0	6.0	8.3	3.6	5.9
HOUNDG NINE (DLFPS-321/3702)	6.3	7.2	6.9	4.0	7.8	6.0	5.3	4.8	2.7	5.3	3.7	6.3	8.0	4.1	5.9
DRAGSTER	6.3	7.0	6.0	4.5	8.5	6.3	5.2	6.3	3.3	4.7	4.3	6.7	8.2	3.7	5.9
BANDIT	5.7	7.7	7.2	4.3	8.2	5.7	5.2	5.8	2.3	4.7	4.0	6.5	7.9	3.7	5.9
TOPSHELF (BGR-TF3)	6.2	6.9	7.3	5.2	7.7	6.3	5.3	6.5	2.7	4.3	3.7	5.7	7.9	3.6	5.9
LBF	6.1	7.0	7.5	4.7	7.8	6.7	5.3	5.2	3.0	4.3	3.7	5.8	8.3	3.6	5.9
HELLCAT GLR (PST-5E6)	6.2	7.8	6.2	4.7	8.3	6.7	5.3	6.3	5.3	4.2	3.3	6.0	8.0	3.7	5.9
FIERCE (K18-RS6)	6.3	7.4	6.1	4.2	8.5	5.7	5.0	6.7	3.3	4.7	2.0	6.7	8.3	4.3	5.9
FASTLANE (BY-TF-169)	5.9	7.6	6.0	5.3	8.3	7.0	4.9	6.0	3.0	4.3	3.3	6.2	8.3	4.1	5.8
TEACHER (PPG-TF 313)	6.2	7.6	5.4	4.3	8.8	5.7	5.3	6.5	3.3	5.1	3.7	6.3	8.4	3.8	5.8
ZION (BAR TF 134)	6.1	7.3	6.3	4.5	8.3	5.7	5.2	6.5	3.3	4.8	3.3	6.2	8.3	3.8	5.8
JT 517	6.2	7.1	7.5	4.7	8.2	5.0	5.3	4.8	3.3	4.9	3.0	6.3	7.9	3.4	5.8
CAPITAN (DLFPS-321/3705)	6.3	7.6	6.1	4.3	8.5	6.3	5.6	5.8	4.0	4.4	3.0	6.5	8.1	3.7	5.8
ORIOLE (PST-5BYOB)	6.1	7.3	6.7	4.5	8.2	5.7	5.2	6.3	2.7	4.7	3.3	6.0	8.1	3.7	5.8
TITANIUM G-LS (PPG-TF 255)	6.3	7.1	7.1	5.3	8.3	5.7	4.9	4.8	1.3	4.3	3.0	6.8	8.0	4.1	5.8
OKEEFE (LTP-TF-122)	6.3	7.2	6.1	4.8	8.5	6.7	5.4	5.8	3.3	4.5	3.7	5.3	8.0	4.1	5.8
RACEWAY (DLFPS-321/3696)	5.8	7.1	7.5	4.7	8.0	5.7	5.4	3.8	2.0	4.8	3.0	6.8	8.3	3.7	5.8
RAPTOR LS (PPG-TF 336)	6.2	7.2	6.5	5.2	8.5	5.7	5.3	6.3	3.0	3.9	3.0	6.7	8.3	3.6	5.8
ROVER (PPG-TF 306)	6.0	7.0	6.8	4.7	8.3	6.7	4.9	4.8	2.0	4.5	3.7	7.2	8.3	3.8	5.8
PPG-TF 312	6.3	7.7	5.1	5.3	8.3	6.0	5.3	6.8	4.7	4.5	2.3	6.5	7.9	4.3	5.8
ESSENTIAL 2 (DLFPS-TF/3552)	6.0	7.2	6.7	5.0	8.2	6.0	5.0	6.2	3.0	4.3	3.3	6.0	8.3	3.8	5.8
ROWDIER (DLFPS-321/3699)	5.8	6.8	7.5	4.7	8.0	6.7	5.1	5.0	2.3	4.0	3.3	7.0	8.1	3.8	5.8
DLFPS-TF/3553	5.9	7.4	7.0	4.7	8.2	6.3	5.3	5.0	2.0	4.3	3.3	6.2	8.3	3.8	5.8
PRO GOLD	6.0	7.1	5.9	5.5	8.3	6.0	5.1	6.2	4.7	4.2	4.0	6.2	8.4	3.5	5.8
TANK (PPG-TF 338)	5.8	7.0	7.0	5.0	8.0	6.0	5.1	5.0	2.0	4.1	4.0	6.8	8.3	4.1	5.8
GRAND PRIX (FC15-01P)	5.9	7.3	7.0	5.2	8.0	6.0	5.3	5.5	3.7	4.1	3.3	6.5	7.7	3.6	5.8
TITAN GLX (TF445)	6.4	7.3	6.2	4.8	8.7	7.3	5.1	5.2	2.0	4.8	3.3	6.2	8.0	3.8	5.8
GALLARDO (DLFPS-TF/3550)	6.2	7.0	6.9	5.0	8.8	5.7	5.1	5.5	2.7	3.8	3.0	6.0	8.6	3.8	5.8
PPG-TF 337	6.1	7.3	6.4	4.7	8.8	5.7	5.2	5.2	2.7	4.9	3.0	6.0	8.1	3.9	5.8
SETFM3	6.0	6.9	7.2	4.7	8.2	6.0	5.0	5.0	3.7	4.8	2.7	5.8	8.2	3.8	5.8
ATF2116	6.1	7.2	7.3	3.7	7.8	7.0	5.2	5.5	2.3	4.3	3.3	5.7	8.3	3.8	5.8
RDC	6.3	7.3	5.9	4.7	8.7	6.0	5.5	6.5	3.7	4.1	3.7	5.8	8.0	3.8	5.8
SERENADE (PPG-TF 320)	6.1	7.2	6.4	4.0	8.5	5.7	5.4	5.5	1.7	5.1	3.3	6.2	7.9	4.1	5.8
BAR-FA8230	5.9	6.9	6.5	5.2	7.8	6.0	4.9	4.8	2.7	5.3	4.3	6.2	8.2	3.5	5.8
GEM (PPG-TF 316)	6.0	7.1	6.9	4.2	8.5	6.3	5.8	5.5	3.3	3.9	2.7	6.2	7.8	3.8	5.8
TD2	6.4	7.2	6.2	4.7	8.5	6.7	5.1	6.7	3.0	4.1	2.7	5.7	8.3	3.5	5.8
OG-WALK	6.1	6.7	7.1	4.5	8.3	6.0	4.9	5.3	2.7	4.7	4.3	6.0	7.8	3.4	5.8
XANADU (JT 268 )	5.9	7.1	7.4	4.3	8.2	6.0	5.0	5.7	2.7	4.1	2.3	6.3	8.1	3.9	5.8
BAR FA 8228	5.8	7.4	6.9	4.2	8.3	6.0	5.2	5.0	3.3	4.6	4.0	6.5	7.9	3.1	5.7
RS1	6.2	7.4	5.9	4.3	8.7	5.7	5.6	5.8	3.3	4.8	2.7	5.2	8.4	3.7	5.7
COPIOUS TF	5.6	7.1	7.7	4.8	7.8	6.0	4.9	4.3	2.7	4.3	3.3	6.3	7.9	3.6	5.7
FIRECRACKER G-LS (PPG-TF 315)	6.2	6.9	7.1	4.3	8.3	6.0	5.1	5.0	2.0	3.8	3.7	6.5	8.2	3.9	5.7
RAPTOR III	5.9	7.1	6.7	4.5	8.3	5.3	5.2	6.0	2.3	4.2	3.0	6.2	8.3	3.8	5.7
GLX ACED (PST-5DART)	5.8	7.3	6.5	4.7	8.3	6.0	5.1	5.8	3.0	3.8	3.3	6.8	7.9	3.8	5.7

TABLE 33.  
(CONT'D)

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IA1	IN1	MD1	NC1	NE1	NJ1	NJ2	ON1	OR1	PA2	TN1	UT1	MEAN
NAI-ST5	6.0	6.8	6.9	4.2	8.0	6.3	5.3	5.0	3.0	4.3	3.3	6.3	8.1	3.7	5.7
5LSS	6.2	7.6	5.6	5.2	8.7	6.0	4.8	6.0	2.3	4.1	3.0	6.0	8.6	4.1	5.7
RHF	6.0	6.7	5.9	4.7	8.7	6.7	4.9	6.2	2.7	4.8	2.7	6.3	8.0	4.1	5.7
PST-5GQ	5.7	7.1	6.9	4.8	8.0	6.3	5.3	4.7	2.3	4.1	3.7	7.0	8.1	3.5	5.7
VALSETZ (PPG-TF 257)	6.2	6.9	6.7	4.5	8.7	6.0	5.2	5.3	2.0	4.1	3.0	6.7	8.1	3.8	5.7
BRAVO 2	5.9	7.2	6.4	4.2	8.0	6.0	5.3	4.8	2.7	4.6	3.7	6.5	8.0	3.8	5.7
FAIRFIELD (SETF104)	6.1	7.0	7.3	5.0	8.0	6.0	5.2	4.8	2.7	3.5	2.3	6.8	8.1	3.6	5.7
TRIAD (PPG-TF 323)	6.1	7.1	6.9	3.8	8.3	6.3	5.3	4.7	1.3	4.6	3.0	5.8	8.3	3.8	5.7
BONFIRE (JS DTT)	6.3	7.0	7.0	4.3	8.2	6.0	5.3	4.2	1.7	4.4	3.0	6.3	8.0	3.8	5.7
STEALTH (PPG-TF 238)	6.0	6.3	6.5	5.0	8.5	5.7	5.0	6.2	2.0	4.8	2.3	6.0	8.0	3.8	5.7
DLFPS-321/3708	6.1	6.7	7.3	5.2	8.2	5.7	5.5	3.5	1.7	3.9	3.7	6.8	8.0	3.7	5.7
RAD-TF105	5.4	6.9	7.3	4.2	8.3	6.3	5.2	4.7	2.3	4.1	3.3	6.7	8.3	3.6	5.7
PST-5TRN	5.7	6.8	6.6	4.0	8.2	6.3	5.1	5.5	2.3	4.4	3.3	7.3	8.1	3.3	5.7
SYMPHONY (PPG-TF 305)	5.8	7.0	6.7	3.8	8.2	5.7	5.3	5.2	2.3	4.3	3.0	6.5	8.3	3.9	5.7
AST8218LM	5.9	7.0	7.3	4.8	7.3	6.3	5.2	4.5	3.3	3.9	3.3	5.2	8.2	4.0	5.7
SR 8700 (TMT1)	5.6	7.3	6.7	4.0	7.5	6.7	5.3	5.0	1.7	4.3	3.7	6.5	8.3	3.8	5.7
GLX REVIVE (PST-5GLBS)	5.4	6.9	6.2	5.0	8.3	6.0	5.1	5.8	2.7	4.6	3.0	7.2	8.0	3.4	5.7
RHL2	6.1	6.4	6.4	3.8	8.3	5.7	5.3	6.2	3.3	4.5	2.0	5.8	8.3	3.9	5.7
PST-5DZM	5.6	6.7	7.2	4.8	7.7	6.0	5.0	5.3	1.7	3.9	3.0	6.7	8.1	3.9	5.7
ATF1768	6.0	7.2	7.1	4.8	7.8	6.3	5.2	4.7	1.7	4.4	2.7	5.7	8.1	3.5	5.7
SE5STAR	5.6	7.0	7.0	4.8	8.2	6.0	5.3	4.8	2.7	4.0	3.0	6.7	7.9	3.5	5.7
MOONDANCE GLX	5.9	6.4	6.8	4.5	7.8	5.7	5.1	6.0	3.0	4.5	4.0	5.8	7.8	3.5	5.7
JT 233	5.9	6.8	7.0	4.0	7.8	6.7	5.1	4.2	2.7	3.9	3.7	6.2	8.2	4.1	5.7
SETFM2	5.7	6.3	7.5	4.3	7.8	5.3	5.3	4.8	3.0	4.3	2.7	6.0	8.2	3.4	5.7
A-TF31	5.8	7.1	7.4	4.3	8.2	5.3	4.7	5.0	1.7	4.5	3.0	5.7	8.1	3.4	5.6
AST8118LM	5.8	6.9	7.8	4.2	7.5	5.0	5.0	4.2	2.3	3.7	3.3	6.2	8.2	4.0	5.6
HEMI	5.8	7.1	6.5	4.5	8.3	5.0	5.0	5.0	2.7	4.4	3.0	5.8	8.2	3.7	5.6
TANGO	5.7	6.9	6.9	4.3	7.7	5.3	4.8	4.3	1.0	4.5	4.0	6.8	8.1	3.7	5.6
BULLSEYE LTZ	5.9	6.7	6.6	5.0	8.0	7.0	4.8	5.0	1.3	3.5	3.7	6.8	8.3	3.6	5.6
NT-3	6.2	6.9	6.6	4.3	8.0	5.7	5.4	4.3	1.3	4.3	3.0	5.2	8.3	3.9	5.6
NAI-FQZ-17	6.2	7.1	7.0	4.0	7.5	5.0	5.3	3.5	3.0	3.8	3.7	6.5	8.0	3.8	5.6
PST-5MINK	5.7	6.6	7.5	4.3	7.3	5.3	4.9	3.0	2.7	4.8	3.0	6.3	8.3	3.4	5.6
GRO-PRO (SE53D2)	5.7	6.7	6.9	4.0	7.7	6.0	4.9	5.3	2.3	3.5	3.0	6.5	8.2	3.4	5.5
TOUGH (NAI-TUE)	5.7	7.1	7.1	4.0	7.8	6.0	5.2	4.2	2.0	3.8	3.3	5.5	7.8	3.8	5.5
PST-5DC24	5.7	6.2	7.7	4.0	7.7	5.3	5.0	3.3	1.7	3.9	4.0	6.5	7.9	3.7	5.5
RAD-TF131	5.8	6.7	7.9	4.0	8.0	6.0	5.1	3.5	1.0	3.2	2.7	6.3	7.8	3.3	5.5
RC4	5.7	6.4	6.5	4.5	8.2	4.7	5.3	4.3	2.0	3.6	2.3	6.3	8.2	3.8	5.4
RAD-TF 115 (TURBO SS)	5.2	7.0	8.1	4.3	7.5	6.0	5.3	2.5	1.3	3.5	2.7	6.0	7.9	2.9	5.4
LAFAYETTE (GO-AOMK)	5.3	6.1	7.9	3.3	7.3	6.3	4.9	3.0	1.0	3.3	3.3	7.0	8.0	3.3	5.4
LSD VALUE	0.9	1.3	1.2	1.4	0.8	1.3	1.1	1.6	1.4	1.8	1.5	1.1	0.8	1.5	0.5
C.V. (%)	9.0	11.2	11.4	18.8	6.3	13.5	17.8	18.3	29.2	26.6	28.1	12.0	6.5	27.0	14.5

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 34.

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IA1	IN1	KS1	MI1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	VA1	MEAN
5LSS	6.3	7.1	9.0	6.9	7.7	6.8	6.2	7.4	5.8	7.3	5.9	7.6	7.0	6.7	5.4	5.9	6.3	6.7
PPG-TF 312	6.9	7.4	9.0	6.4	7.7	6.5	5.3	6.9	6.2	7.5	6.1	7.3	6.5	6.0	6.4	5.9	5.7	6.6
K18-NSE	6.5	7.2	9.0	6.5	7.0	6.1	6.1	7.0	6.2	7.2	6.1	7.3	7.3	6.2	5.9	5.7	6.0	6.6
DAYBREAK (AH2)	6.8	7.0	9.0	6.1	6.7	5.7	6.1	7.5	6.1	8.3	5.8	7.4	6.7	6.3	6.6	5.1	6.0	6.6
TD2	6.3	7.3	9.0	6.3	7.0	5.9	6.5	7.0	5.8	7.0	6.1	7.3	6.2	6.5	6.3	5.1	6.0	6.5
FIRECRACKER G-LS (PPG-TF 315)	6.7	7.0	9.0	6.1	7.7	5.9	6.1	7.1	6.0	6.7	6.2	6.9	6.7	6.3	6.5	5.1	6.0	6.5
RHF	6.6	6.9	8.0	6.5	7.0	6.1	6.1	6.8	6.0	7.3	5.9	7.0	6.5	5.8	7.3	5.2	6.3	6.5
TEACHER (PPG-TF 313)	6.4	7.0	9.0	6.3	7.0	6.3	5.9	6.7	6.0	7.5	5.9	7.6	6.5	6.0	6.2	5.4	5.7	6.5
PPG-TF 337	6.7	7.1	9.0	6.4	7.7	5.9	6.0	7.0	6.1	6.7	5.9	7.0	6.3	6.5	6.3	5.2	6.0	6.5
DLFPS-TF/3553	6.5	7.0	8.7	6.5	7.3	6.1	6.5	6.9	6.1	6.3	5.9	7.0	6.5	6.7	6.3	5.0	6.0	6.5
RHL2	6.6	7.0	9.0	6.6	7.3	5.6	6.2	7.3	6.1	7.3	5.9	7.0	6.3	5.8	5.7	5.5	6.0	6.5
CLASH (AH1)	6.6	6.8	9.0	5.8	5.7	6.3	6.1	7.4	6.3	7.5	6.0	7.0	7.0	6.2	5.9	4.9	6.0	6.5
SPYDER 2LS (ZRC1)	6.3	6.8	9.0	6.1	7.7	6.3	6.0	7.1	6.1	7.7	5.9	7.6	6.2	6.3	5.9	4.9	6.3	6.5
SOUTHSIDE (PPG-TF 267)	6.7	6.8	9.0	6.6	6.5	5.7	6.0	6.9	5.8	6.0	5.9	7.4	6.7	6.3	7.0	4.7	6.0	6.5
DLFPS-321/3693	6.8	6.8	9.0	6.3	6.7	5.8	6.0	6.6	6.0	7.5	6.0	7.1	6.2	6.0	6.2	5.4	6.0	6.4
DLFPS-321/3708	6.3	6.8	9.0	6.4	7.0	5.6	6.3	7.1	5.9	7.0	6.0	7.3	6.2	6.5	6.2	4.9	6.0	6.4
GEM (PPG-TF 316)	6.0	6.8	9.0	6.3	7.3	5.7	6.3	7.0	6.0	6.8	5.7	7.2	5.8	6.3	6.7	5.3	6.0	6.4
ZION (BAR TF 134)	6.2	6.9	9.0	6.3	6.3	5.7	6.3	6.6	6.2	7.2	5.9	7.3	6.0	7.0	6.3	5.1	6.0	6.4
TITANIUM G-LS (PPG-TF 255)	6.3	6.8	9.0	6.2	7.3	5.6	6.2	7.2	6.2	6.2	5.9	7.2	6.7	6.3	6.1	5.1	6.0	6.4
BLADERUNNER 3 (DLFPS-321/3701)	6.7	7.1	8.7	6.1	7.0	6.1	6.0	6.7	5.9	6.0	5.9	7.3	6.7	6.3	6.5	5.1	6.0	6.4
XANADU (JT 268 )	6.3	6.8	9.0	6.7	7.0	5.8	6.1	7.2	5.9	6.7	5.8	7.1	5.5	6.3	6.3	4.9	6.0	6.4
HOUND DOG NINE (DLFPS-321/3702)	6.3	6.8	9.0	6.1	7.3	6.1	6.0	6.8	6.2	6.3	6.1	7.2	6.5	6.0	6.3	4.9	6.0	6.4
TANK (PPG-TF 338)	6.3	7.0	9.0	6.4	6.7	5.9	6.0	6.9	6.0	6.2	6.1	7.2	5.8	6.3	6.5	4.9	6.0	6.4
STEALTH (PPG-TF 238)	6.6	7.1	9.0	6.0	7.3	5.7	6.1	6.9	6.1	6.7	6.0	7.0	6.0	6.3	6.1	5.0	6.0	6.4
K18-WB1	6.3	6.7	9.0	6.3	7.3	5.8	5.8	6.7	6.1	6.8	5.9	7.1	5.7	6.5	6.5	5.1	5.7	6.4
ROVER (PPG-TF 306)	6.6	6.8	9.0	6.1	7.3	5.6	5.8	7.1	6.1	6.8	5.7	7.4	6.2	6.0	6.3	4.9	5.7	6.4
BULLSEYE LTZ	6.3	7.3	9.0	6.7	7.0	5.8	5.7	7.3	6.1	6.0	5.6	7.1	6.3	6.3	5.9	4.9	6.3	6.4
TRIAD (PPG-TF 323)	6.3	6.8	9.0	6.3	7.3	5.8	5.5	6.9	6.0	6.3	6.0	7.3	5.7	6.3	6.5	5.0	6.3	6.4
RC4	6.6	6.9	9.0	5.8	7.3	5.6	5.6	7.2	6.2	7.5	5.9	7.0	5.5	6.2	6.2	5.2	5.7	6.4
TYCOON (COL-TF-148)	6.5	6.8	9.0	6.0	6.3	5.5	6.0	6.5	6.3	6.8	5.9	7.0	5.5	6.7	6.7	5.1	5.7	6.4
DLFPS-321/3707	6.3	6.9	9.0	6.1	7.0	5.3	6.1	6.8	6.1	6.8	5.8	7.0	6.5	6.3	6.1	5.1	6.3	6.4
FIERCE (K18-RS6)	6.4	6.6	8.3	6.0	6.7	5.7	6.3	7.0	6.1	7.7	6.0	7.0	6.0	6.3	6.1	5.0	6.0	6.4
SYMPHONY (PPG-TF 305)	6.3	6.7	9.0	5.9	6.7	5.8	5.9	6.9	6.1	6.7	6.0	7.2	6.8	5.7	6.0	5.2	6.0	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.2	7.0	9.0	6.5	6.7	5.7	6.2	6.9	6.3	6.7	5.7	6.8	6.3	6.0	6.0	4.9	6.3	6.4
GALACTIC (SESCR1)	6.2	6.5	9.0	5.8	6.3	5.6	5.9	7.3	6.0	7.2	5.9	7.3	5.7	6.3	6.5	4.8	6.0	6.3
NT-3	6.5	6.8	9.0	6.2	7.0	5.4	5.8	6.6	6.3	6.5	5.6	7.3	6.2	6.7	6.2	5.1	6.0	6.3
DLFPS-321/3706	6.3	6.8	9.0	6.1	6.7	5.5	5.7	6.7	6.1	7.0	5.9	7.0	7.3	6.3	5.3	5.3	6.0	6.3
PROVIDENCE (GO-RH20)	6.4	7.1	9.0	5.8	7.0	5.5	6.2	6.7	6.1	6.5	5.8	6.9	5.8	6.7	6.3	4.7	6.0	6.3
TITAN GLX (TF445)	6.3	6.8	9.0	6.0	7.3	5.6	5.9	6.7	5.9	6.5	5.9	6.8	6.3	6.5	6.4	4.8	6.0	6.3
DLFPS-321/3695	6.3	6.7	9.0	6.1	6.7	5.3	5.8	6.5	6.1	7.0	5.9	7.3	5.7	6.0	6.5	5.1	6.0	6.3
EXPANSE (PPG-TF 262)	6.4	6.8	9.0	6.3	6.3	5.3	5.7	6.9	6.1	7.3	5.9	7.3	6.2	5.8	6.2	4.7	6.0	6.3
RAPTOR LS (PPG-TF 336)	6.6	7.0	9.0	6.0	7.0	5.8	5.3	6.4	6.3	6.8	5.9	6.9	6.3	6.5	6.1	5.0	6.3	6.3
FASTLANE (BY-TF-169)	6.2	6.7	9.0	6.0	7.3	5.8	6.0	6.4	6.1	6.8	5.9	7.1	6.3	6.3	5.9	4.9	6.0	6.3
SR 8700 (TMT1)	6.3	6.7	9.0	6.0	6.0	5.6	5.7	6.5	6.2	6.7	5.8	6.7	6.2	6.5	7.1	4.7	6.0	6.3
DYNAMITE G-LS (PPG-TF 254)	6.3	6.6	9.0	6.5	6.7	5.2	6.0	6.4	6.1	6.3	6.0	7.2	6.3	6.3	6.1	4.9	6.0	6.3
DRAGSTER	6.3	6.7	9.0	6.3	7.0	5.5	5.2	6.5	6.1	7.0	5.9	7.2	6.0	6.7	6.1	5.1	6.7	6.3

TABLE 34.  
(CONT'D)

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IA1	IN1	KS1	MI1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	VA1	MEAN
SERENADE (PPG-TF 320)	6.1	6.7	9.0	6.2	6.0	5.2	5.9	6.9	6.2	6.2	5.9	6.9	5.5	6.7	6.7	4.7	6.0	6.3
BONFIRE (JS DTT)	6.3	6.5	9.0	6.3	7.0	5.6	5.9	6.5	6.3	7.2	5.7	6.6	5.8	6.8	6.3	4.7	6.0	6.3
PPG-TF 249	6.3	6.5	9.0	6.2	6.3	5.8	5.2	6.7	6.2	6.7	5.7	7.0	6.7	6.5	6.1	5.1	6.3	6.3
DEGAS (LTP-TF-111)	6.3	6.6	9.0	6.3	5.3	5.8	6.0	6.6	6.1	6.2	5.8	6.8	6.2	6.7	6.1	4.9	6.0	6.3
ESTRENA	6.3	6.7	9.0	6.7	7.3	6.3	5.3	6.3	6.1	5.5	5.8	7.1	6.8	6.8	5.4	5.1	6.0	6.3
VALSETZ (PPG-TF 257)	6.5	6.9	9.0	5.9	5.7	5.3	5.5	6.7	5.9	6.8	5.9	7.1	6.0	6.5	6.1	5.1	6.0	6.3
AVENGER III (PPG-TF 308)	6.3	6.8	9.0	6.3	6.3	5.8	6.0	6.7	6.0	5.8	5.7	6.8	6.5	6.3	5.8	4.9	5.7	6.3
RS1	6.3	6.4	9.0	5.8	7.0	5.8	6.0	6.9	6.0	7.5	5.8	6.8	5.2	6.2	5.9	5.0	5.7	6.2
RDC	6.2	6.5	9.0	6.6	5.7	5.6	5.9	6.8	6.1	6.3	5.9	7.0	5.5	6.5	5.8	4.9	6.3	6.2
DLFPS-321/3694	6.3	6.6	9.0	6.2	7.0	5.6	5.2	6.2	6.0	7.5	5.8	7.3	5.5	6.5	6.2	5.1	6.0	6.2
ROWDIER (DLFPS-321/3699)	6.3	6.8	9.0	6.2	7.0	5.9	5.8	6.7	5.8	6.0	5.9	6.8	6.0	5.8	6.1	4.9	6.0	6.2
JT 233	6.3	6.7	9.0	6.2	7.0	5.0	5.9	6.5	5.8	5.7	5.9	6.8	5.8	6.7	6.6	4.9	6.0	6.2
FIRENZA II (PPG-TF 244)	6.3	6.5	9.0	5.8	6.3	5.6	6.1	6.9	6.1	6.3	5.9	6.8	5.8	6.0	6.0	4.8	6.7	6.2
TITAN MAX (TF456)	6.3	6.9	9.0	5.9	7.3	5.9	5.9	6.7	5.9	6.2	5.7	7.1	6.2	6.3	5.7	4.7	6.0	6.2
PPG-TF 318	6.4	6.8	9.0	5.9	7.0	5.6	5.2	6.7	6.0	7.2	5.8	7.0	6.0	6.3	6.0	4.7	6.7	6.2
RACEWAY (DLFPS-321/3696)	6.3	6.3	9.0	6.0	7.0	5.6	5.7	6.8	5.9	5.7	5.8	7.1	5.8	6.7	6.1	4.7	5.7	6.2
NAI-ST5	6.3	6.7	9.0	6.1	5.3	5.6	5.8	6.8	6.1	6.3	5.7	6.9	6.2	6.3	5.7	5.0	5.0	6.2
RAPTOR III	6.4	6.7	9.0	5.7	6.3	5.6	5.9	6.5	6.2	6.5	5.6	6.8	6.2	6.5	6.1	4.5	6.0	6.2
PPG-TF 231	6.6	6.4	9.0	5.9	6.5	5.8	5.5	6.4	5.9	5.7	5.9	7.3	5.8	5.7	6.1	4.8	6.7	6.2
FALCON SUPREME (RH1)	6.3	6.5	9.0	5.7	6.3	5.3	5.8	6.8	5.9	5.8	5.7	7.2	5.7	6.5	6.3	4.8	5.7	6.2
DLFPS-321/3703	6.2	6.3	9.0	5.9	7.3	5.8	5.9	6.3	5.9	5.0	5.7	6.9	5.7	6.2	6.4	4.9	6.0	6.2
FIREHAWK SLT	6.2	6.5	9.0	6.1	5.7	5.6	5.6	6.6	5.9	5.8	5.7	7.2	5.7	6.5	6.2	4.9	6.0	6.2
PARAMOUNT	6.3	6.1	9.0	6.3	6.3	5.5	5.8	6.7	5.7	5.7	5.7	7.0	6.0	7.0	6.2	4.7	5.7	6.2
RAD-TF105	6.4	6.4	9.0	6.1	7.0	5.8	5.5	6.5	5.6	6.7	5.6	7.2	5.8	6.3	6.1	4.6	6.0	6.2
A-TF31	6.4	6.3	9.0	6.4	6.7	5.6	5.3	7.1	5.9	4.3	5.7	7.1	6.0	6.0	5.8	5.1	6.3	6.2
BATTLE HAWK (NAI-ROS4)	6.3	6.6	8.7	5.8	5.3	5.6	5.5	6.7	6.0	6.5	5.8	6.9	5.7	6.7	6.1	4.9	6.0	6.2
FAIRFIELD (SETF104)	6.6	6.5	9.0	6.0	6.3	5.3	6.1	6.3	6.1	6.0	5.7	6.6	5.3	6.3	6.2	4.7	6.3	6.2
CAPITAN (DLFPS-321/3705)	6.0	6.5	9.0	6.1	6.7	5.6	5.9	6.6	6.1	6.7	5.7	6.7	5.3	6.5	5.8	4.6	6.3	6.2
FINELAWN SUPREME (RH3)	6.2	6.6	9.0	6.5	7.0	5.6	5.3	6.3	5.9	5.5	5.8	6.8	5.7	6.3	6.1	4.9	5.7	6.1
GALLARDO (DLFPS-TF/3550)	6.1	6.4	8.3	6.3	6.3	5.3	5.7	6.8	6.1	6.8	5.8	6.8	6.3	6.2	5.9	4.5	6.0	6.1
OKEEFE (LTP-TF-122)	6.3	6.8	8.3	5.8	7.0	5.3	5.5	6.3	6.2	6.2	5.7	7.0	5.7	6.5	6.3	4.9	6.0	6.1
ENDGAME (3N1)	6.3	6.2	9.0	5.7	6.0	5.7	5.5	6.4	6.1	5.2	5.6	7.1	5.7	7.0	6.7	4.5	5.7	6.1
RAD-TF131	6.3	6.3	9.0	5.3	5.7	5.6	6.0	6.0	6.0	5.5	5.5	7.3	5.5	6.2	6.3	5.1	5.3	6.1
BENTLEY (DLFPS-321/3679)	6.2	6.6	9.0	6.1	6.7	5.3	5.9	6.0	5.8	5.5	5.6	6.8	5.0	6.2	6.3	4.7	6.3	6.1
TOUGH (NAI-TUE)	6.2	6.3	9.0	5.8	5.7	5.6	5.8	6.4	6.1	4.5	5.7	7.0	5.3	6.5	6.2	4.6	6.0	6.1
LAFAYETTE (GO-AOMK)	5.9	6.2	9.0	6.1	6.0	5.8	5.5	6.6	5.9	4.5	5.7	6.8	5.7	6.7	6.1	4.8	5.7	6.1
PADRE 2	6.0	6.3	9.0	6.0	6.5	5.5	5.9	6.6	5.8	5.0	5.9	6.6	5.8	6.7	5.9	4.4	5.3	6.1
LIFEGUARD	5.9	6.3	9.0	6.0	7.0	5.3	5.1	6.3	5.9	5.8	5.7	6.5	5.0	6.3	6.9	4.7	6.0	6.1
GLX ACED (PST-5DART)	6.3	6.3	9.0	6.1	5.7	5.1	5.5	6.4	5.9	5.8	5.6	6.8	5.5	6.2	6.4	4.2	6.3	6.0
RAD-TF 115 (TURBO SS)	6.3	6.2	9.0	5.7	6.0	5.2	6.1	6.1	5.8	4.7	5.3	6.8	6.2	6.7	6.1	4.9	6.3	6.0
COPIOUS TF	6.1	6.3	9.0	6.0	6.7	5.1	5.8	6.1	5.8	5.7	5.6	6.7	6.3	6.3	5.9	4.8	5.3	6.0
PST-5GQ	6.1	6.0	9.0	5.9	4.7	5.2	5.7	6.8	5.8	5.0	5.7	6.7	5.0	6.7	6.7	4.3	5.7	6.0
EXTRAVAGANZA (PST-5MCMO)	6.1	6.1	9.0	5.5	5.7	5.4	5.5	6.7	5.9	5.7	5.7	6.8	5.2	6.5	6.0	4.6	6.3	6.0
PST-5DZM	5.8	6.0	9.0	5.7	5.3	5.5	5.5	6.5	5.8	5.2	5.6	7.1	5.5	6.2	6.5	4.7	6.0	6.0
PST-5TRN	6.2	6.3	9.0	5.4	6.0	5.0	5.9	6.9	6.0	4.3	5.7	6.7	5.2	6.7	6.1	4.4	6.0	6.0
GRANDE 3	6.0	6.3	9.0	5.7	6.3	5.4	5.3	6.5	6.0	6.2	5.7	6.8	5.0	6.3	5.8	4.6	5.7	6.0
JT 517	6.0	6.2	8.7	5.8	6.3	5.2	5.3	6.5	5.8	4.5	5.8	7.0	6.0	6.5	6.1	4.7	6.0	6.0

TABLE 34.  
(CONT'D)

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IA1	IN1	KS1	MI1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	VA1	MEAN
HEMI	5.9	6.4	9.0	5.3	5.3	5.4	5.9	6.2	5.9	5.7	5.7	6.7	5.3	6.5	6.1	4.5	6.0	6.0
SETFM2	6.0	6.1	9.0	6.2	6.0	5.3	6.1	6.6	5.8	4.3	5.5	6.3	5.0	6.7	6.0	4.5	5.7	6.0
GLX REVIVE (PST-5GLBS)	6.4	6.3	8.7	5.6	4.3	5.1	5.5	6.7	6.1	5.3	5.4	6.8	5.0	6.7	6.2	4.5	5.7	6.0
3B2	6.2	6.3	8.7	5.8	5.3	5.1	5.7	6.1	5.9	5.3	5.8	6.8	5.5	6.5	6.3	4.3	6.0	6.0
TAR HEEL III (PST-5THM)	6.2	5.9	9.0	5.3	6.3	4.8	5.8	6.7	6.2	4.7	5.6	6.3	5.3	7.0	6.5	4.1	6.0	6.0
TALLADEGA II (NAI-3N2)	6.2	6.2	9.0	5.8	5.7	5.3	5.1	6.3	5.7	4.7	5.8	6.9	5.7	7.0	5.9	4.8	6.0	6.0
SETFM3	6.3	6.0	9.0	5.8	5.7	5.2	5.3	6.7	6.0	4.8	5.6	6.8	5.8	6.7	5.5	4.4	6.0	6.0
FAYETTE	6.0	5.9	9.0	5.8	6.7	5.3	5.6	6.1	5.8	5.2	5.8	6.4	5.8	6.5	5.3	4.7	6.0	5.9
PST-5MINK	6.0	6.0	9.0	5.7	6.0	5.3	5.3	6.3	5.7	4.2	5.3	6.6	5.5	7.2	6.7	4.4	5.3	5.9
PRO GOLD	5.9	6.0	9.0	5.8	6.0	5.4	5.3	6.3	5.9	3.8	5.7	6.5	5.5	7.0	6.3	4.2	6.0	5.9
ATF1768	6.1	6.3	9.0	6.0	5.3	4.9	5.3	6.0	5.8	4.8	5.3	6.7	5.2	6.7	6.1	4.6	6.3	5.9
KIZZLE (K18-ROE)	6.1	6.2	8.7	5.5	6.3	5.0	5.5	6.2	5.8	3.8	5.7	6.8	5.3	6.8	6.1	4.5	5.3	5.9
BULLSEYE	6.0	6.0	9.0	5.2	5.3	4.9	5.7	6.1	6.1	4.3	5.8	6.8	5.5	6.8	5.8	4.5	6.0	5.9
BIRMINGHAM	6.1	6.2	9.0	5.6	5.7	5.3	5.5	6.0	5.7	3.8	5.3	6.8	5.5	7.2	6.1	4.7	5.3	5.9
HELLCAT GLR (PST-5E6)	5.9	6.3	9.0	5.8	5.0	5.0	5.2	6.6	5.8	5.3	5.4	6.4	5.2	6.2	6.7	3.9	6.3	5.9
LBF	5.9	6.2	9.0	5.5	6.0	4.8	5.7	6.3	5.8	4.2	5.4	6.5	5.7	6.7	5.9	4.7	6.0	5.9
BANDIT	6.1	6.3	9.0	5.5	5.0	4.8	5.3	5.9	5.8	4.0	5.5	6.8	5.5	6.8	6.1	4.8	5.7	5.9
AST8118LM	6.0	6.2	9.0	5.5	6.0	5.0	5.1	6.1	5.8	3.2	5.5	6.8	5.7	6.3	6.3	4.7	6.0	5.9
MONUMENT (PST-5SQB)	5.8	5.9	9.0	5.6	4.7	4.9	5.2	6.3	5.8	5.2	5.5	6.6	5.0	7.0	6.3	4.3	5.7	5.8
PST-5DC24	5.9	6.2	9.0	5.7	5.0	4.8	5.7	6.3	6.2	4.2	5.2	6.1	5.2	6.5	6.2	4.4	6.0	5.8
SE5STAR	6.0	5.9	9.0	5.8	6.3	4.7	5.3	6.0	5.9	4.0	5.6	6.8	5.2	6.8	5.9	4.4	5.0	5.8
MOONDANCE GLX	5.8	6.1	9.0	5.7	5.0	5.1	5.3	6.1	6.3	4.0	5.7	6.3	4.8	7.2	6.1	3.8	6.3	5.8
TOPSHELF (BGR-TF3)	6.0	6.0	9.0	6.4	6.0	5.3	5.0	5.7	5.8	3.7	5.5	6.4	5.3	6.3	6.0	4.4	6.0	5.8
TANGO	6.0	6.0	9.0	5.2	5.0	4.8	5.4	6.0	5.8	4.7	5.4	6.7	4.7	6.8	6.5	4.1	5.7	5.8
BARNOBLE (BAR 9FE MAS)	5.9	5.8	9.0	5.5	6.3	5.7	5.0	5.7	5.8	3.7	5.5	6.6	4.5	6.3	6.5	4.4	6.0	5.8
GRO-PRO (SE53D2)	5.9	6.2	9.0	5.7	5.0	4.9	5.7	6.1	5.8	4.2	5.7	6.3	5.3	6.5	5.5	4.0	6.7	5.8
AST8218LM	5.8	5.8	8.7	5.5	5.0	4.8	5.9	5.7	6.0	5.5	5.3	6.3	5.3	7.0	5.9	4.1	5.7	5.8
ATF2116	5.8	6.1	9.0	5.5	4.5	4.8	5.5	5.8	5.8	3.8	5.6	6.3	4.5	7.0	5.9	4.3	5.7	5.7
NATURALLY GREEN	5.7	5.9	9.0	5.1	4.7	4.8	5.7	5.7	5.7	4.3	5.4	6.7	5.3	6.8	5.7	4.5	5.7	5.7
NAI-FQZ-17	5.8	5.7	9.0	5.1	5.7	4.8	5.1	5.8	5.9	3.3	5.3	6.9	5.5	7.0	6.3	4.2	5.0	5.7
GRAND PRIX (FC15-01P)	5.8	6.0	9.0	5.6	5.3	4.8	5.2	5.7	5.8	3.8	5.3	6.3	4.8	7.0	6.1	4.1	5.7	5.7
ORIOLE (PST-5BYOB)	5.8	6.1	9.0	5.4	4.7	4.6	5.3	6.1	5.8	4.0	5.3	6.3	5.2	6.8	6.0	3.9	6.0	5.7
BRAVO 2	5.9	6.0	9.0	5.2	5.0	4.5	5.1	5.9	6.0	3.2	5.7	6.2	5.0	7.0	5.9	4.3	5.7	5.7
BAR-FA8230	5.9	6.1	9.0	5.0	5.3	4.8	5.4	5.5	6.0	3.7	5.3	6.0	4.7	6.8	6.0	4.3	5.7	5.6
ESCALADE	5.8	5.4	8.0	5.2	4.7	4.4	5.1	5.2	5.8	3.3	5.3	6.7	4.5	7.2	6.9	4.0	5.7	5.5
OG-WALK	5.5	5.3	9.0	5.1	4.7	4.6	5.0	4.9	6.1	3.0	5.2	6.1	4.7	7.7	5.9	3.6	5.0	5.4
BAR FA 8228	5.7	5.3	8.7	5.3	4.3	4.1	5.0	5.3	5.7	3.0	5.1	6.3	4.2	6.7	6.0	3.9	5.0	5.4
PALOMAR	5.4	5.8	9.0	4.9	4.3	3.9	4.8	5.1	5.8	3.2	5.0	6.0	4.3	7.2	6.1	3.8	6.0	5.3
KENTUCKY-31	4.3	3.9	9.0	3.8	2.0	2.1	4.2	4.0	5.3	1.2	4.1	4.5	2.5	7.8	5.3	2.5	2.0	4.3
LSD VALUE	0.8	0.9	0.5	1.0	1.7	0.9	0.9	0.9	0.7	1.6	0.6	1.0	1.1	1.0	1.6	0.8	0.9	0.3
C.V. (%)	7.9	8.4	3.5	10.6	16.5	10.8	10.5	8.8	7.2	16.9	5.9	8.8	12.1	9.6	16.6	10.6	9.4	10.2

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

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

TABLE 35. SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019 DATA

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

NAME	CT1	IN1	KY1	NE1	UT1	MEAN
KENTUCKY-31	5.7	5.7	4.7	6.0	5.7	5.5
DAYBREAK (AH2)	6.3	5.0	4.7	5.7	5.7	5.5
BONFIRE (JS DTT)	4.7	6.3	4.3	6.3	5.7	5.5
DLFPS-321/3695	5.0	6.3	4.7	5.7	5.7	5.5
GRANDE 3	5.3	6.0	4.3	6.0	5.7	5.5
TALLADEGA II (NAI-3N2)	4.0	6.7	4.7	6.7	5.3	5.5
BULLSEYE LTZ	4.7	6.7	4.0	6.3	5.3	5.4
RHF	4.7	6.0	4.3	6.7	5.3	5.4
PROVIDENCE (GO-RH20)	5.7	5.0	4.7	6.0	5.3	5.3
BATTLE HAWK (NAI-ROS4)	5.3	5.7	4.3	5.7	5.7	5.3
PPG-TF 231	5.3	5.7	4.7	5.7	5.3	5.3
RDC	5.3	4.7	4.0	6.7	6.0	5.3
FALCON SUPREME (RH1)	5.0	5.7	4.3	6.3	5.3	5.3
CLASH (AH1)	5.3	4.7	4.7	5.7	6.0	5.3
PPG-TF 249	4.7	6.0	4.7	6.0	5.0	5.3
PPG-TF 312	4.3	5.7	4.7	6.0	5.7	5.3
RAPTOR LS (PPG-TF 336)	5.0	5.7	4.7	6.0	5.0	5.3
SR 8700 (TMT1)	5.0	5.7	4.7	5.7	5.3	5.3
ORIOLE (PST-5BYOB)	5.7	4.0	4.7	6.0	5.7	5.2
FAYETTE	4.7	5.7	4.0	6.7	5.0	5.2
TOPSHELF (BGR-TF3)	5.3	6.0	4.3	5.0	5.3	5.2
BARNOBLE (BAR 9FE MAS)	5.3	5.3	4.3	6.0	4.7	5.1
GLX ACED (PST-5DART)	5.0	6.0	4.0	5.7	5.0	5.1
JT 517	4.7	7.0	3.3	6.3	4.3	5.1
TOUGH (NAI-TUE)	4.7	6.0	4.0	5.7	5.3	5.1
PST-5DZM	4.3	7.0	3.7	6.0	4.7	5.1
GALACTIC (SESCR1)	4.0	6.0	4.7	6.0	5.0	5.1
TANGO	4.7	5.7	3.7	6.7	5.0	5.1
GALLARDO (DLFPS-TF/3550)	4.3	6.0	4.3	6.0	5.0	5.1
ESCALADE	4.7	5.3	4.3	6.3	5.0	5.1
FIERCE (K18-RS6)	4.7	4.7	4.7	6.3	5.3	5.1
PPG-TF 337	4.7	5.3	4.3	6.0	5.3	5.1
RHL2	4.7	5.3	4.3	6.0	5.3	5.1
RAD-TF 115 (TURBO SS)	4.7	5.0	4.3	6.3	5.3	5.1
TITAN MAX (TF456)	3.3	5.3	4.3	6.7	5.7	5.1
5LSS	5.0	5.3	4.0	5.7	5.3	5.1
DLFPS-321/3694	4.7	5.0	4.3	6.0	5.3	5.1
HEMI	4.3	5.0	4.3	6.0	5.7	5.1
MOONDANCE GLX	5.0	6.0	4.3	5.3	4.7	5.1
NT-3	4.7	4.7	4.7	6.0	5.3	5.1
TITANIUM G-LS (PPG-TF 255)	4.3	4.7	4.0	7.0	5.3	5.1
ROVER (PPG-TF 306)	4.3	5.7	4.3	6.0	5.0	5.1
PPG-TF 318	4.7	4.3	4.7	6.3	5.3	5.1
PST-5DC24	4.7	5.3	4.0	6.3	5.0	5.1
TAR HEEL III (PST-5THM)	5.0	5.0	4.0	6.3	5.0	5.1
SETFM3	4.3	6.0	4.0	6.0	5.0	5.1

TABLE 35. SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) 2019 DATA

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

NAME	CT1	IN1	KY1	NE1	UT1	MEAN
TITAN GLX (TF445)	4.3	5.3	4.0	6.0	5.7	5.1
ESSENTIAL 2 (DLFPS-TF/3552)	3.3	5.0	4.3	6.7	5.7	5.0
SOUTHSIDE (PPG-TF 267)	4.7	5.7	4.0	6.0	4.7	5.0
TD2	4.7	5.0	3.7	6.0	5.7	5.0
ATF1768	4.7	5.0	4.3	6.0	5.0	5.0
RACEWAY (DLFPS-321/3696)	4.3	4.7	4.7	6.0	5.3	5.0
DYNAMITE G-LS (PPG-TF 254)	4.7	5.0	4.3	6.3	4.7	5.0
SYMPHONY (PPG-TF 305)	4.7	4.3	4.7	6.0	5.3	5.0
AVENGER III (PPG-TF 308)	4.0	5.7	4.0	6.0	5.3	5.0
PRO GOLD	4.7	5.0	4.3	6.0	5.0	5.0
HELLCAT GLR (PST-5E6)	4.3	5.0	4.7	6.0	5.0	5.0
RAD-TF105	5.0	5.0	4.0	6.0	5.0	5.0
FINELAWN SUPREME (RH3)	4.0	5.7	4.0	6.0	5.3	5.0
SPYDER 2LS (ZRC1)	5.0	4.7	4.7	5.3	5.3	5.0
BAR-FA8230	4.3	5.7	3.7	6.0	5.3	5.0
EXPANSE (PPG-TF 262)	4.7	5.3	3.7	6.0	5.3	5.0
GEM (PPG-TF 316)	4.3	5.3	4.7	5.3	5.3	5.0
TRIAD (PPG-TF 323)	4.0	5.3	4.3	6.3	5.0	5.0
AST8218LM	4.0	6.3	3.7	6.0	4.7	4.9
ATF2116	4.0	5.7	3.7	6.7	4.7	4.9
KIZZLE (K18-ROE)	4.7	5.0	4.0	5.7	5.3	4.9
SERENADE (PPG-TF 320)	3.7	5.7	4.3	5.7	5.3	4.9
RC4	4.0	5.0	4.7	5.7	5.3	4.9
DLFPS-321/3693	5.3	4.3	4.3	5.3	5.3	4.9
DLFPS-321/3706	4.0	6.0	3.7	5.7	5.3	4.9
K18-NSE	4.3	5.0	4.3	5.3	5.7	4.9
PARAMOUNT	5.0	5.3	3.7	5.7	5.0	4.9
VALSETZ (PPG-TF 257)	4.0	5.0	4.3	6.0	5.3	4.9
GLX REVIVE (PST-5GLBS)	4.3	4.3	4.7	6.0	5.3	4.9
RS1	4.7	4.3	4.0	6.3	5.3	4.9
ESTRENA	4.3	4.7	4.7	5.7	5.0	4.9
K18-WB1	4.0	4.7	4.7	6.0	5.0	4.9
NATURALLY GREEN	4.7	5.0	4.3	5.7	4.7	4.9
FIRENZA II (PPG-TF 244)	4.3	5.7	4.0	5.7	4.7	4.9
TEACHER (PPG-TF 313)	3.7	5.7	4.0	6.0	5.0	4.9
BAR FA 8228	4.7	5.3	3.7	5.7	5.0	4.9
BRAVO 2	4.3	4.7	4.0	6.0	5.3	4.9
LIFEGUARD	4.7	5.3	4.0	5.3	5.0	4.9
NAI-ST5	4.7	4.3	4.0	6.0	5.3	4.9
TANK (PPG-TF 338)	4.3	5.0	4.3	6.0	4.7	4.9
MONUMENT (PST-5SQB)	4.3	5.7	3.7	5.3	5.3	4.9
RAD-TF131	4.3	5.0	4.0	6.3	4.7	4.9
BIRMINGHAM	4.0	4.3	4.7	6.0	5.0	4.8
XANADU (JT 268)	4.3	5.0	4.3	5.7	4.7	4.8
NAI-FQZ-17	3.7	5.3	4.0	6.3	4.7	4.8
PADRE 2	4.0	5.3	4.3	5.7	4.7	4.8
PST-5GQ	4.0	4.7	3.3	6.7	5.3	4.8



TABLE 35.  
(CONT'D)

SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/						
NAME	CT1	IN1	KY1	NE1	UT1	MEAN
EXTRAVAGANZA (PST-5MCMO)	4.3	4.3	4.0	6.3	5.0	4.8
SE5STAR	4.3	6.0	3.7	5.0	5.0	4.8
DRAGSTER	3.7	5.0	3.7	6.3	5.3	4.8
STEALTH (PPG-TF 238)	4.0	4.0	4.3	6.3	5.3	4.8
FAIRFIELD (SETF104)	4.7	4.3	4.3	5.3	5.3	4.8
TYCOON (COL-TF-148)	4.0	5.7	3.3	6.3	4.3	4.7
COPIOUS TF	4.3	4.7	4.0	5.7	5.0	4.7
DLFPS-321/3703	3.7	5.3	3.7	6.3	4.7	4.7
OG-WALK	3.7	6.0	3.3	6.0	4.7	4.7
SETFM2	3.3	5.7	4.0	6.0	4.7	4.7
3B2	4.3	4.7	4.0	6.3	4.3	4.7
HOUNDG NINE (DLFPS-321/3702)	3.3	4.3	4.3	6.3	5.3	4.7
CAPITAN (DLFPS-321/3705)	4.0	5.0	4.3	5.3	5.0	4.7
DLFPS-321/3708	3.7	5.0	4.0	5.7	5.3	4.7
RAPTOR III	3.3	5.3	4.0	6.0	5.0	4.7
GRO-PRO (SE53D2)	4.0	5.0	4.0	6.3	4.3	4.7
FASTLANE (BY-TF-169)	4.3	4.3	3.3	6.7	4.7	4.7
LBF	4.0	4.7	4.3	5.7	4.7	4.7
FIRECRACKER G-LS (PPG-TF 315)	4.7	5.0	3.3	5.7	4.7	4.7
ENDGAME (3N1)	4.0	5.0	3.7	6.0	4.7	4.7
BANDIT	3.7	4.0	3.7	7.0	5.0	4.7
BULLSEYE	4.3	4.7	4.0	6.3	4.0	4.7
BENTLEY (DLFPS-321/3679)	4.0	4.7	4.3	5.3	5.0	4.7
DLFPS-TF/3553	4.0	4.3	4.3	5.7	5.0	4.7
PST-5TRN	4.0	4.3	3.7	6.3	5.0	4.7
DEGAS (LTP-TF-111)	4.0	6.0	3.3	5.0	4.7	4.6
A-TF31	4.0	5.0	3.7	6.0	4.3	4.6
AST8118LM	4.3	4.7	3.3	6.3	4.3	4.6
ZION (BAR TF 134)	3.0	6.3	3.0	6.0	4.7	4.6
BLADERUNNER 3 (DLFPS-321/3701)	5.0	3.7	3.3	6.0	5.0	4.6
JT 233	4.3	5.3	3.3	5.7	4.3	4.6
FIREHAWK SLT	3.7	4.7	3.3	6.0	5.0	4.5
LAFAYETTE (GO-AOMK)	3.7	5.3	3.3	5.7	4.7	4.5
ROWDIER (DLFPS-321/3699)	4.0	4.0	4.0	5.7	4.7	4.5
DLFPS-321/3707	3.7	5.3	3.7	5.3	4.3	4.5
PST-5MINK	4.7	5.0	2.7	5.7	4.3	4.5
OKEEFE (LTP-TF-122)	3.7	5.0	3.3	5.7	4.3	4.4
PALOMAR	4.0	4.7	4.0	5.3	4.0	4.4
GRAND PRIX (FC15-01P)	3.7	5.0	3.0	6.0	4.0	4.3
LSD VALUE	1.4	1.4	1.0	1.1	1.1	0.5
C.V. (%)	20.2	17.1	14.8	11.6	13.7	15.4

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

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

TABLE 36.

 SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
 2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/											
	CT1	DE1	IA1	IN1	MS1	NC1	NE1	OK1	ON1	TN1	VA1	MEAN
FALCON SUPREME (RH1)	6.3	7.0	6.8	6.2	7.0	7.3	6.8	6.4	6.2	6.9	7.3	6.8
TITANIUM G-LS (PPG-TF 255)	6.3	7.0	6.5	6.2	6.7	7.2	6.9	6.6	6.4	7.0	8.0	6.8
GEM (PPG-TF 316)	6.3	7.3	6.0	6.5	7.0	7.0	6.9	6.7	6.9	6.6	8.0	6.7
PPG-TF 231	7.0	7.0	6.8	6.5	7.0	6.3	6.7	6.4	7.2	6.6	8.0	6.7
TITAN MAX (TF456)	7.0	7.0	6.6	6.2	6.7	6.8	7.0	6.5	6.9	6.8	7.3	6.7
BATTLE HAWK (NAI-ROS4)	7.0	7.3	6.0	6.2	6.7	6.7	6.9	6.5	6.6	6.8	7.3	6.6
BULLSEYE LTZ	7.0	7.3	5.8	6.7	6.3	6.9	6.8	6.7	6.4	6.5	8.3	6.6
PROVIDENCE (GO-RH20)	6.7	7.7	6.4	5.8	6.0	7.3	6.7	6.4	6.9	6.6	7.3	6.6
GALACTIC (SESCR1)	7.0	7.0	6.4	5.0	6.7	7.2	6.8	6.5	6.6	6.7	7.0	6.6
DYNAMITE G-LS (PPG-TF 254)	6.7	7.3	6.3	6.3	6.7	6.4	6.8	6.5	7.0	6.8	7.3	6.6
ROWDIER (DLFPS-321/3699)	7.3	6.7	6.0	5.8	6.7	6.5	6.9	6.5	6.6	7.1	7.7	6.6
ROVER (PPG-TF 306)	7.0	6.7	5.7	6.2	6.3	7.2	6.9	6.1	6.9	6.9	8.0	6.6
TALLADEGA II (NAI-3N2)	6.7	7.0	6.1	6.2	6.7	6.5	6.8	6.5	6.6	6.8	7.3	6.6
DLFPS-321/3708	7.0	6.7	6.4	6.2	6.7	6.0	6.6	6.8	6.6	7.3	8.0	6.6
TD2	7.0	7.7	5.7	6.5	7.0	7.0	6.7	6.3	6.3	6.7	8.0	6.6
PPG-TF 318	7.0	7.0	6.3	5.7	6.7	6.8	6.8	6.4	7.2	6.3	7.7	6.6
SERENADE (PPG-TF 320)	6.7	6.3	5.8	6.2	6.7	6.8	6.9	6.7	6.9	6.5	8.0	6.6
NAI-ST5	6.7	7.0	6.5	5.3	6.7	7.0	6.8	6.5	6.6	6.5	7.3	6.6
TANK (PPG-TF 338)	6.7	7.0	5.1	6.3	7.0	6.8	7.0	6.3	6.3	7.1	8.0	6.6
BONFIRE (JS DTT)	7.3	7.0	6.2	6.2	7.0	6.7	7.0	6.7	6.6	6.1	7.7	6.6
RC4	6.7	7.3	6.3	6.0	7.0	6.5	6.9	6.5	6.2	6.7	8.0	6.6
SPYDER 2LS (ZRC1)	7.0	7.3	6.2	6.0	6.7	6.7	6.4	6.4	6.7	6.6	7.7	6.6
RHF	6.3	8.0	6.0	5.7	7.0	6.8	6.9	6.3	6.9	6.1	8.0	6.5
RDC	7.0	7.0	6.8	6.3	6.7	6.5	6.7	6.1	6.2	6.6	7.3	6.5
DLFPS-321/3695	7.0	6.7	6.7	6.0	6.7	6.6	6.8	6.3	6.6	6.5	7.3	6.5
FASTLANE (BY-TF-169)	7.3	7.0	5.7	6.2	6.3	6.1	6.7	6.7	7.0	6.8	8.0	6.5
FIRENZA II (PPG-TF 244)	7.0	7.0	5.6	6.7	7.0	7.0	6.8	6.5	6.3	6.0	7.7	6.5
FIRECRACKER G-LS (PPG-TF 315)	7.0	7.3	5.7	6.3	7.0	6.1	7.0	6.7	6.3	6.8	8.0	6.5
SOUTHSIDE (PPG-TF 267)	6.7	7.0	5.2	7.2	6.0	6.9	6.9	6.1	7.0	6.7	8.0	6.5
EXPANSE (PPG-TF 262)	6.7	6.7	6.3	6.2	6.7	6.7	6.8	5.9	7.0	6.5	7.7	6.5
JT 517	7.0	7.0	7.0	5.8	6.3	6.0	6.8	6.3	6.8	6.9	7.7	6.5
DLFPS-321/3693	7.0	7.0	6.2	5.7	7.0	6.1	7.0	6.3	6.8	6.7	8.0	6.5
AVENGER III (PPG-TF 308)	7.0	7.0	6.2	5.8	6.7	6.7	6.8	6.3	6.9	6.1	7.7	6.5
STEALTH (PPG-TF 238)	7.3	7.3	6.1	6.3	6.0	6.8	6.7	6.3	7.1	6.7	7.3	6.5
XANADU (JT 268 )	7.0	7.3	5.3	6.5	6.7	7.0	7.0	6.3	6.9	6.3	7.7	6.5
3B2	6.3	7.3	6.5	6.2	6.7	6.7	7.0	6.3	6.9	6.1	7.7	6.5
DRAGSTER	6.7	7.3	6.2	6.2	6.3	6.3	6.9	6.3	6.8	6.4	8.0	6.5
EXTRAVAGANZA (PST-5MCMO)	6.3	6.7	7.0	6.3	6.0	6.9	6.7	6.3	6.2	6.5	7.0	6.5
DAYBREAK (AH2)	7.3	7.3	6.1	5.8	6.3	6.9	6.8	6.1	6.8	6.5	7.7	6.5
SR 8700 (TMT1)	7.0	6.7	6.3	6.0	7.0	6.4	6.9	6.5	6.4	6.3	8.0	6.5
BLADERUNNER 3 (DLFPS-321/3701)	7.0	6.7	5.8	6.8	6.7	6.7	6.9	6.2	6.4	6.3	8.0	6.5
RACEWAY (DLFPS-321/3696)	6.7	6.3	6.3	6.7	6.7	6.2	6.7	6.0	6.8	6.9	7.7	6.5
DEGAS (LTP-TF-111)	7.0	7.3	5.8	5.7	6.7	6.6	6.8	6.5	5.8	6.6	8.0	6.5
GLX REVIVE (PST-5GLBS)	7.0	6.3	5.9	6.0	7.0	6.6	6.8	6.4	6.2	6.5	7.3	6.5
JT 233	7.0	7.0	4.9	6.2	6.3	6.5	6.9	6.5	6.9	6.9	8.0	6.5
DLFPS-321/3694	6.7	6.7	6.3	6.2	6.7	6.1	7.0	6.1	6.7	6.7	7.7	6.5

TABLE 36.  
(CONT'D)

SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/											
	CT1	DE1	IA1	IN1	MS1	NC1	NE1	OK1	ON1	TN1	VA1	MEAN
FIERCE (K18-RS6)	6.7	7.3	5.9	5.8	6.7	6.9	6.7	6.6	6.4	6.2	7.3	6.5
K18-WB1	6.7	6.7	6.7	5.8	6.7	6.3	6.8	6.3	6.8	6.4	7.7	6.5
PADRE 2	7.0	6.7	6.4	6.2	6.7	6.7	6.9	6.2	6.2	6.1	7.0	6.5
5LSS	7.3	8.0	5.7	6.8	6.7	6.7	6.7	6.2	6.6	6.1	8.7	6.5
PPG-TF 337	7.0	7.7	5.9	6.3	7.0	6.5	6.8	6.1	6.6	5.8	8.0	6.4
TITAN GLX (TF445)	6.7	7.3	5.8	6.5	6.7	7.0	6.9	6.1	6.6	6.0	8.0	6.4
CAPITAN (DLFPS-321/3705)	6.7	7.7	5.8	6.0	6.0	7.1	6.8	6.3	6.4	6.5	7.7	6.4
RAPTOR LS (PPG-TF 336)	7.0	7.3	6.1	6.3	6.7	6.1	6.8	6.1	6.6	6.5	7.3	6.4
ATF1768	6.3	7.0	5.8	6.2	6.3	6.6	6.9	6.1	6.6	6.7	7.7	6.4
K18-NSE	7.3	7.7	5.8	6.8	7.0	6.0	6.8	5.9	6.6	6.5	7.7	6.4
FINELAWN SUPREME (RH3)	6.3	6.7	6.0	6.2	7.0	6.4	6.7	6.5	6.1	6.5	7.3	6.4
PST-5TRN	6.3	6.3	6.0	5.7	6.3	7.2	6.7	6.5	6.6	6.1	8.0	6.4
CLASH (AH1)	7.0	7.3	6.5	5.5	6.7	6.7	6.8	6.3	6.3	6.2	7.0	6.4
TAR HEEL III (PST-5THM)	6.7	6.3	6.5	5.7	6.3	6.8	6.6	6.1	6.2	6.9	7.0	6.4
RAD-TF105	6.7	7.0	6.4	5.8	7.0	6.1	6.9	5.8	6.9	6.5	7.3	6.4
RS1	7.0	7.7	5.8	6.2	6.7	6.9	6.8	6.1	6.8	5.8	7.7	6.4
TYCOON (COL-TF-148)	7.7	7.3	6.7	6.0	6.7	6.0	6.8	5.9	6.8	6.3	7.7	6.4
BENTLEY (DLFPS-321/3679)	6.7	6.7	6.3	5.8	6.3	5.9	7.0	6.5	6.6	6.7	6.7	6.4
VALSETZ (PPG-TF 257)	6.7	6.7	5.8	6.0	6.3	6.3	6.7	6.7	6.4	6.6	7.3	6.4
TOUGH (NAI-TUE)	6.3	6.7	6.7	5.2	6.3	6.7	6.9	6.0	6.6	6.4	7.3	6.4
DLFPS-321/3707	6.7	7.0	6.0	6.3	6.7	6.5	6.8	6.0	6.4	6.5	8.0	6.4
NT-3	7.0	7.3	5.8	6.5	6.3	6.3	6.9	6.1	6.2	6.5	8.3	6.4
KIZZLE (K18-ROE)	7.0	7.0	6.3	6.0	6.3	6.5	6.7	6.3	6.3	6.3	7.3	6.4
DLFPS-TF/3553	7.0	7.3	5.6	6.8	6.0	6.3	6.8	6.2	6.7	6.5	8.0	6.4
PPG-TF 249	7.0	7.0	5.6	6.2	6.7	6.3	6.8	6.5	6.7	6.1	7.7	6.4
SYMPHONY (PPG-TF 305)	7.0	7.0	5.6	5.7	7.0	6.4	6.9	6.3	6.3	6.3	7.3	6.4
RAPTOR III	7.0	7.3	5.8	5.3	6.3	6.3	6.8	6.2	6.9	6.7	7.7	6.4
LIFEGUARD	6.3	7.0	6.1	6.3	7.0	6.4	6.7	6.4	6.3	5.9	7.7	6.4
OKEEFE (LTP-TF-122)	7.3	7.7	6.1	6.2	6.3	6.3	7.0	6.4	6.3	6.1	7.7	6.4
PPG-TF 312	7.0	8.0	6.4	5.8	6.7	5.9	6.7	6.1	6.3	6.3	8.0	6.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	7.7	5.8	6.7	6.0	6.6	6.7	6.3	6.2	6.5	7.3	6.4
GRANDE 3	6.7	7.0	6.4	5.8	6.7	6.1	6.7	6.0	6.4	6.4	7.3	6.4
ENDGAME (3N1)	7.0	6.7	6.0	6.3	6.0	6.4	6.4	6.5	6.7	6.3	7.7	6.4
TRIAD (PPG-TF 323)	6.3	6.0	5.5	5.5	6.3	6.7	6.8	6.3	6.7	6.4	8.0	6.4
ATF2116	6.3	5.7	6.3	5.8	6.7	6.5	7.0	6.3	5.9	6.3	6.7	6.4
DLFPS-321/3706	6.7	6.7	6.2	5.8	7.0	6.3	6.8	6.1	6.1	6.2	8.0	6.4
SETFM3	6.3	6.7	6.1	5.8	6.0	6.5	6.7	6.3	6.8	6.4	7.0	6.3
FAIRFIELD (SETF104)	6.7	6.7	7.2	5.3	6.7	6.1	6.7	6.0	6.6	6.3	7.0	6.3
HELLCAT GLR (PST-5E6)	6.3	7.0	6.8	5.7	6.3	6.7	6.8	5.9	5.6	6.6	7.0	6.3
PARAMOUNT	7.0	6.0	6.2	5.5	6.7	6.4	6.7	6.1	6.6	6.3	7.7	6.3
TEACHER (PPG-TF 313)	7.3	7.0	5.3	6.0	7.0	5.9	6.9	6.0	6.8	6.5	8.0	6.3
LAFAYETTE (GO-AOMK)	6.7	6.7	6.4	5.0	6.0	6.1	6.8	6.3	6.1	6.9	7.0	6.3
ZION (BAR TF 134)	6.7	7.0	5.9	5.8	6.3	6.1	6.9	6.5	6.8	6.1	7.7	6.3
DLFPS-321/3703	6.3	6.3	6.3	5.3	6.3	6.2	6.7	5.9	6.7	6.5	7.7	6.3
HOUNDG NINE (DLFPS-321/3702)	7.0	7.0	5.9	6.2	6.3	6.1	6.7	6.3	6.6	6.4	7.3	6.3
ORIOLE (PST-5BYOB)	6.7	6.7	5.7	5.7	6.0	6.7	6.8	6.7	5.7	6.6	7.0	6.3
BULLSEYE	6.7	5.0	6.6	5.0	7.0	6.1	6.8	5.9	6.8	6.6	7.3	6.3

TABLE 36.  
(CONT'D)

SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/											
	CT1	DE1	IA1	IN1	MS1	NC1	NE1	OK1	ON1	TN1	VA1	MEAN
GLX ACED (PST-5DART)	6.3	6.3	6.4	6.0	6.7	6.3	6.9	6.4	5.7	6.1	7.7	6.3
RHL2	7.0	7.3	6.0	5.3	6.7	6.4	6.6	5.7	6.8	6.3	8.0	6.3
FIREHAWK SLT	6.7	7.3	6.6	5.8	6.0	5.9	6.8	5.9	6.6	6.5	7.0	6.3
PST-5GQ	6.3	6.7	6.3	6.0	6.0	6.7	6.8	6.1	6.0	6.2	7.3	6.3
LBF	6.0	6.3	6.3	6.0	5.7	6.5	6.9	5.8	5.7	6.7	7.7	6.3
GALLARDO (DLFPS-TF/3550)	6.7	6.7	4.9	6.2	6.0	6.5	6.7	6.2	6.8	6.5	8.0	6.2
MONUMENT (PST-5SQB)	6.7	6.7	6.8	5.8	6.7	6.3	6.7	6.1	5.3	6.1	6.3	6.2
GRO-PRO (SE53D2)	6.0	6.7	5.6	5.5	6.3	6.7	6.8	6.4	5.7	6.3	7.3	6.2
PST-5DZM	6.3	6.7	6.2	5.3	6.3	6.1	6.6	6.1	6.7	6.5	6.7	6.2
TOPSHELFB (BGR-TF3)	6.0	6.7	6.3	5.8	6.3	5.9	6.7	6.1	6.0	6.3	7.3	6.2
BIRMINGHAM	6.0	6.7	6.1	5.5	6.0	6.4	6.8	6.1	5.9	6.2	6.0	6.2
ESTRENA	7.0	6.0	5.8	6.2	6.7	5.9	6.9	5.7	6.0	6.5	7.7	6.2
PRO GOLD	6.7	6.3	5.7	6.2	6.3	6.1	6.7	6.0	5.6	6.6	6.7	6.2
COPIOUS TF	7.0	6.7	6.4	6.0	6.0	5.7	6.6	5.6	6.8	6.5	7.3	6.2
PST-5MINK	6.7	6.3	6.4	5.5	6.0	5.6	6.9	5.9	6.3	6.7	6.7	6.2
HEMI	6.3	6.3	6.7	4.8	6.0	6.6	6.8	5.6	6.3	6.2	7.3	6.2
BANDIT	6.0	7.0	6.2	5.5	6.0	5.7	6.4	6.4	6.4	6.2	7.7	6.2
SETFM2	6.3	6.7	6.0	6.0	6.3	5.7	6.7	6.0	5.7	6.5	7.0	6.1
PST-5DC24	6.7	6.7	6.5	6.3	6.0	5.9	6.6	5.9	6.0	6.3	7.3	6.1
AST8118LM	6.3	6.3	6.5	6.2	6.0	5.4	6.3	6.1	6.1	6.3	7.0	6.1
FAYETTE	6.7	6.0	6.0	5.7	6.3	6.0	6.4	6.1	6.1	6.1	6.7	6.1
BAR-FA8230	6.0	6.3	6.4	5.2	6.3	5.7	6.7	6.1	6.4	6.1	7.0	6.1
SE5STAR	7.0	6.3	6.0	5.3	6.3	6.1	6.8	6.1	6.3	5.9	7.0	6.1
TANGO	6.7	6.3	5.8	6.0	6.0	6.5	6.6	5.8	6.2	5.9	7.3	6.1
MOONDANCE GLX	6.3	5.7	6.1	5.5	6.7	5.9	6.6	6.3	5.8	6.1	7.0	6.1
GRAND PRIX (FC15-01P)	6.0	6.0	6.2	5.5	6.0	6.3	6.8	5.8	5.6	6.3	6.7	6.1
BARNOBLE (BAR 9FE MAS)	6.0	6.0	6.2	5.3	6.0	6.0	6.9	5.8	6.2	6.2	6.3	6.1
AST8218LM	6.3	6.0	6.3	5.8	6.0	5.5	6.7	5.9	6.2	6.3	6.0	6.1
NATURALLY GREEN	6.0	6.3	6.0	5.7	5.7	5.8	6.8	5.9	6.1	6.5	7.0	6.1
BRAVO 2	6.3	6.0	5.3	5.8	7.0	6.1	6.6	5.9	6.0	6.0	7.0	6.1
RAD-TF131	6.3	6.7	6.7	5.0	6.7	5.1	6.9	4.9	6.8	6.7	7.3	6.1
NAI-FQZ-17	6.3	6.3	5.3	5.7	6.3	6.0	6.8	5.9	6.0	6.4	6.7	6.0
ESCALADE	6.0	5.7	6.4	5.2	6.0	5.9	6.8	6.0	6.0	6.0	6.0	6.0
A-TF31	6.7	5.0	5.7	5.3	5.7	5.7	6.3	5.7	6.0	6.9	8.3	6.0
OG-WALK	6.0	6.3	6.5	5.5	6.3	5.5	6.7	5.7	5.4	6.4	5.7	6.0
BAR FA 8228	6.0	6.0	6.7	5.3	6.0	5.5	6.6	5.7	5.6	6.2	6.0	5.9
PALOMAR	6.0	5.7	6.6	5.3	6.3	5.3	6.8	5.4	5.7	5.7	6.3	5.8
RAD-TF 115 (TURBO SS)	6.7	6.7	5.4	5.0	5.3	5.1	6.8	4.0	6.3	6.5	7.7	5.6
KENTUCKY-31	5.0	4.0	6.8	4.0	5.0	5.5	6.6	4.4	4.6	5.9	3.3	5.3
LSD VALUE	0.7	1.1	2.1	1.2	0.8	1.4	0.5	1.1	1.3	1.7	1.0	0.6
C.V. (%)	6.6	10.2	24.9	12.5	7.4	15.5	4.9	11.1	13.3	16.7	8.2	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 37.

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	IN1	MS1	NC1	OK1	ON1	OR1	TN1	UT1	MEAN
5LSS	6.9	6.1	6.9	6.5	7.0	5.5	7.3	8.3	7.0	7.3	6.7
EXPANSE (PPG-TF 262)	6.8	5.9	6.4	5.8	7.7	5.9	7.2	7.7	7.1	7.0	6.7
TEACHER (PPG-TF 313)	6.8	6.3	6.0	6.7	7.0	5.5	7.7	8.3	6.7	7.2	6.7
DLFPS-321/3708	6.7	5.9	5.7	6.5	7.7	6.0	6.8	7.3	7.5	6.8	6.6
TANK (PPG-TF 338)	6.6	6.3	6.3	6.5	7.0	6.2	6.9	6.3	6.7	6.8	6.6
CLASH (AH1)	6.9	5.8	6.0	6.7	6.3	6.2	6.8	7.3	7.0	7.0	6.6
TD2	6.8	5.8	6.2	6.5	7.7	5.7	6.8	6.7	7.5	7.0	6.6
BULLSEYE LTZ	6.5	6.4	6.6	6.0	6.3	6.1	6.8	7.3	7.0	6.7	6.6
SERENADE (PPG-TF 320)	6.6	6.3	6.2	6.7	7.0	6.2	7.4	7.0	6.6	7.0	6.6
DEGAS (LTP-TF-111)	6.8	6.0	6.4	6.7	7.0	5.9	6.8	6.7	6.8	7.0	6.6
GALLARDO (DLFPS-TF/3550)	6.4	5.6	6.0	5.8	7.0	6.7	6.8	6.7	7.1	6.8	6.6
RC4	6.8	6.0	6.1	6.5	7.7	6.0	6.6	6.7	6.7	7.0	6.6
TRIAD (PPG-TF 323)	6.4	6.1	5.9	6.3	7.3	5.8	7.6	7.0	6.7	7.0	6.6
CAPITAN (DLFPS-321/3705)	6.6	5.8	6.6	6.0	7.3	6.4	6.5	6.3	7.1	7.0	6.6
ESSENTIAL 2 (DLFPS-TF/3552)	6.6	5.6	6.3	5.8	8.0	6.2	6.8	7.3	6.7	6.8	6.6
PPG-TF 249	6.6	5.6	6.3	6.7	5.7	6.4	6.8	7.0	6.8	7.0	6.5
VALSETZ (PPG-TF 257)	6.7	5.8	6.1	5.8	6.7	6.3	7.0	7.0	6.7	7.0	6.5
PROVIDENCE (GO-RH20)	6.9	5.9	5.8	6.0	7.3	6.2	7.0	7.0	6.8	7.2	6.5
RAPTOR LS (PPG-TF 336)	6.7	5.8	6.6	6.5	7.0	5.8	6.8	7.0	6.7	7.2	6.5
HOUNDOG NINE (DLFPS-321/3702)	6.4	6.0	5.9	6.3	5.7	6.1	6.5	7.3	6.9	7.0	6.5
FIRECRACKER G-LS (PPG-TF 315)	6.8	6.1	6.0	6.3	7.0	6.2	6.5	6.7	7.0	7.2	6.5
K18-NSE	6.6	5.8	6.7	5.5	7.3	5.5	7.3	8.0	6.9	7.2	6.5
RHL2	6.9	5.8	6.3	5.8	7.0	5.1	6.7	7.3	7.5	7.2	6.5
JT 233	6.3	6.5	6.1	6.0	6.0	5.9	6.9	7.3	6.3	6.8	6.5
DLFPS-321/3693	7.2	5.9	5.7	6.7	5.7	6.1	6.7	6.3	6.9	7.0	6.5
NT-3	7.2	6.3	6.3	6.2	6.7	5.3	7.0	7.0	6.7	7.0	6.5
DLFPS-321/3695	6.8	5.6	6.3	6.5	5.3	6.2	6.8	6.0	6.6	7.2	6.5
TALLADEGA II (NAI-3N2)	6.4	5.3	5.8	6.2	5.0	6.1	7.3	6.7	7.5	6.7	6.5
DLFPS-321/3694	6.5	6.2	5.9	6.2	5.7	5.8	6.8	6.0	7.1	7.0	6.5
DLFPS-TF/3553	6.7	5.3	6.1	6.0	7.0	5.7	7.1	7.3	7.3	7.0	6.5
FINELAWN SUPREME (RH3)	6.3	5.7	6.5	6.2	7.3	5.7	7.0	7.0	6.7	7.0	6.5
SOUTHSIDE (PPG-TF 267)	6.8	5.7	6.8	6.0	6.3	5.7	6.9	7.0	6.4	6.8	6.5
GEM (PPG-TF 316)	6.4	6.0	6.4	6.8	6.7	6.1	6.9	6.0	6.2	7.2	6.5
NAI-ST5	6.5	5.9	5.8	6.3	7.7	6.0	7.1	6.3	6.8	7.0	6.5
PPG-TF 231	6.5	6.1	6.2	6.7	5.3	5.7	7.3	6.7	6.7	6.7	6.5
FASTLANE (BY-TF-169)	6.6	5.4	6.3	6.0	6.0	5.9	6.8	6.7	6.8	7.0	6.5
RHF	6.5	5.8	6.5	6.8	6.7	5.3	6.8	7.0	6.5	7.3	6.5
FIERCE (K18-RS6)	6.8	5.7	6.1	6.3	7.3	5.8	7.0	6.0	6.7	7.0	6.5
DLFPS-321/3707	6.6	5.8	5.8	6.5	8.0	5.7	6.8	7.7	6.7	7.2	6.4
TITANIUM G-LS (PPG-TF 255)	6.8	5.8	6.1	6.7	6.7	5.9	7.0	5.3	6.6	7.0	6.4
RACEWAY (DLFPS-321/3696)	6.3	5.8	5.8	6.3	5.7	5.7	7.0	6.0	7.5	7.0	6.4
SPYDER 2LS (ZRC1)	6.8	5.8	6.1	6.0	7.0	5.6	7.5	7.3	6.3	7.2	6.4
GALACTIC (SESCR1)	6.5	5.7	5.8	6.2	7.3	5.9	6.7	6.3	7.1	7.0	6.4
ROVER (PPG-TF 306)	6.8	5.5	6.0	6.0	6.0	5.8	7.0	7.3	6.9	7.0	6.4
XANADU (JT 268 )	6.7	5.9	6.5	6.5	7.0	5.9	6.9	7.3	6.0	7.0	6.4
DRAGSTER	6.2	5.7	6.2	6.3	6.7	5.7	6.8	8.0	6.8	7.0	6.4

TABLE 37.  
(CONT'D)

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/										MEAN
	CT1	IA1	IN1	MS1	NC1	OK1	ON1	OR1	TN1	UT1	
BLADERUNNER 3 (DLFPS-321/3701)	6.8	5.5	6.3	6.5	6.0	6.2	6.8	7.0	6.1	6.8	6.4
TYCOON (COL-TF-148)	6.7	5.9	5.8	6.7	7.3	5.8	6.9	7.0	6.6	7.2	6.4
LIFEGUARD	6.3	5.8	6.3	6.8	5.7	5.9	6.7	5.0	6.8	6.8	6.4
DLFPS-321/3706	6.5	5.6	5.9	6.0	7.0	5.9	6.9	7.0	6.9	7.2	6.4
BATTLE HAWK (NAI-ROS4)	6.8	5.3	6.0	6.3	7.3	6.1	6.9	6.7	6.5	7.0	6.4
ZION (BAR TF 134)	6.4	5.9	6.3	6.0	6.7	5.9	7.0	6.3	6.3	7.0	6.4
K18-WB1	6.5	5.6	6.3	5.8	6.3	5.7	6.8	6.3	6.5	7.0	6.4
ROWDIER (DLFPS-321/3699)	6.5	5.7	5.8	6.3	4.7	5.9	6.7	6.3	7.1	6.8	6.4
BONFIRE (JS DTT)	6.7	6.0	6.4	6.8	6.3	5.9	6.3	6.7	6.2	7.0	6.4
PPG-TF 337	6.6	5.8	6.3	6.7	7.3	5.9	6.8	7.0	5.9	7.0	6.4
SYMPHONY (PPG-TF 305)	6.4	5.8	5.8	7.0	6.7	5.9	6.8	8.0	6.3	7.0	6.4
PPG-TF 318	6.3	6.2	5.7	6.3	7.3	5.9	6.9	6.0	6.5	7.0	6.4
AVENGER III (PPG-TF 308)	6.7	5.8	5.9	6.5	7.0	5.7	6.9	8.0	6.1	7.0	6.4
DYNAMITE G-LS (PPG-TF 254)	6.4	5.5	6.3	6.7	6.3	5.8	7.1	7.0	6.4	7.0	6.4
TOUGH (NAI-TUE)	6.5	5.3	5.6	5.5	6.3	6.1	6.8	6.0	6.9	6.7	6.4
DAYBREAK (AH2)	6.9	5.3	5.9	6.2	7.3	5.8	6.9	7.7	6.4	7.0	6.3
RS1	6.7	5.6	6.0	6.2	7.3	5.5	6.6	6.7	6.7	6.8	6.3
TITAN MAX (TF456)	6.4	5.6	6.1	6.3	6.7	5.7	7.2	6.7	6.5	7.0	6.3
FIRENZA II (PPG-TF 244)	6.5	6.3	5.9	7.0	6.0	6.1	6.7	6.7	5.9	6.7	6.3
RAPTOR III	6.4	5.8	5.7	6.3	6.7	5.7	6.9	6.3	6.6	6.5	6.3
STEALTH (PPG-TF 238)	6.4	5.6	5.7	5.3	7.0	6.0	7.3	6.7	6.9	7.0	6.3
RAD-TF105	6.3	5.7	5.8	6.2	6.3	5.3	7.0	5.7	7.2	6.7	6.3
FIREHAWK SLT	6.5	5.7	5.8	5.8	6.3	5.5	7.3	6.7	6.9	6.8	6.3
ESTRENA	6.3	5.8	6.3	5.5	5.0	5.5	7.3	6.7	6.6	7.2	6.3
FALCON SUPREME (RH1)	6.1	5.5	5.8	6.7	7.0	6.0	6.4	7.0	6.6	6.8	6.3
PARAMOUNT	6.8	6.0	5.7	5.8	4.7	5.7	6.6	6.0	6.7	7.0	6.3
OKEEFE (LTP-TF-122)	6.6	5.5	6.0	6.0	6.7	6.1	6.9	7.0	6.1	6.8	6.3
HEMI	6.6	6.2	5.1	6.0	7.3	5.5	7.0	5.7	6.8	6.3	6.3
TITAN GLX (TF445)	6.3	5.6	5.9	6.7	6.7	5.3	6.9	5.7	6.7	7.2	6.3
RDC	6.6	5.8	6.0	6.0	7.0	5.4	6.8	7.3	6.5	7.2	6.3
3B2	6.3	5.9	6.0	6.3	5.7	6.3	6.4	5.7	5.8	6.7	6.3
DLFPS-321/3703	6.3	5.8	5.4	5.8	5.3	5.7	6.7	7.0	6.7	6.8	6.3
KIZZLE (K18-ROE)	6.2	5.7	5.9	6.3	5.3	6.3	6.7	5.3	6.4	6.7	6.3
SR 8700 (TMT1)	6.7	5.8	5.6	6.3	5.3	6.0	6.4	6.7	6.7	6.8	6.3
BRAVO 2	6.0	6.2	5.6	6.3	5.7	5.9	6.3	4.7	6.8	6.3	6.3
JT 517	6.3	5.9	5.3	6.3	4.3	5.4	6.9	6.3	7.0	6.5	6.3
PPG-TF 312	6.8	5.6	6.3	5.7	7.3	5.3	7.1	7.0	5.9	7.7	6.3
PADRE 2	6.3	5.3	5.8	5.5	4.7	6.3	6.3	7.0	6.6	6.7	6.2
BULLSEYE	6.4	5.8	5.0	5.8	5.0	5.9	6.3	6.3	7.3	6.5	6.2
GRANDE 3	6.4	5.4	5.9	6.3	6.0	5.8	6.5	6.0	6.6	6.7	6.2
BENTLEY (DLFPS-321/3679)	6.7	5.5	5.6	6.0	5.3	6.0	6.8	4.7	6.5	6.5	6.2
ATF1768	6.1	5.8	5.8	5.8	7.3	5.7	7.2	4.7	6.5	6.8	6.2
GLX REVIVE (PST-5GLBS)	6.3	5.5	6.1	7.0	6.0	6.1	6.7	5.3	5.9	6.5	6.2
GLX ACED (PST-5DART)	6.2	5.8	6.2	6.5	6.3	6.2	6.3	5.7	5.8	6.7	6.2
SETFM3	6.3	5.8	5.2	5.7	6.7	5.5	6.8	6.0	6.9	6.5	6.2
TOPSHELF (BGR-TF3)	6.2	6.3	5.8	6.2	4.0	5.7	6.1	5.0	7.0	6.3	6.2
MONUMENT (PST-5SQB)	6.0	5.5	5.9	6.2	4.7	6.3	6.6	5.3	6.1	6.5	6.2

TABLE 37.  
(CONT'D)

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/										MEAN
	CT1	IA1	IN1	MS1	NC1	OK1	ON1	OR1	TN1	UT1	
LAFAYETTE (GO-AOMK)	6.0	5.8	5.3	6.0	5.3	5.9	6.2	6.3	7.1	6.3	6.2
FAIRFIELD (SETF104)	6.6	5.7	5.4	6.2	5.7	5.2	6.8	5.7	6.5	6.7	6.2
BANDIT	6.3	5.9	5.4	5.7	5.3	5.7	6.5	5.0	6.5	6.5	6.1
GRO-PRO (SE53D2)	6.1	5.9	5.2	6.3	6.3	6.1	6.3	6.3	6.5	6.3	6.1
EXTRAVAGANZA (PST-5MCMO)	6.1	5.3	5.8	5.8	7.3	5.9	6.7	5.7	6.6	6.7	6.1
PST-5DC24	6.3	5.8	5.6	6.0	5.3	5.7	5.8	5.3	6.9	6.3	6.1
FAYETTE	6.3	6.1	6.0	5.3	5.7	5.9	6.3	6.3	5.5	6.8	6.1
SE5STAR	6.1	5.4	5.3	6.0	4.7	6.0	6.6	5.7	6.5	6.5	6.1
PRO GOLD	6.0	5.4	5.6	6.3	5.0	5.9	6.0	6.0	6.6	6.0	6.1
PST-5DZM	6.1	5.5	5.6	6.3	6.3	5.9	6.9	5.7	5.9	6.5	6.1
ORIOLE (PST-5BYOB)	5.9	5.8	5.7	5.8	5.3	6.1	5.8	5.7	6.5	5.8	6.1
PST-5TRN	5.8	5.4	5.7	6.2	7.3	6.1	6.7	6.0	5.9	6.3	6.1
TAR HEEL III (PST-5THM)	6.0	5.8	5.5	6.2	6.3	5.9	6.6	5.3	6.2	6.3	6.1
LBF	6.1	6.0	5.7	5.7	4.3	5.7	6.0	5.3	6.5	6.5	6.1
COPIOUS TF	6.4	5.4	5.8	5.8	5.7	5.3	6.8	5.7	6.2	6.8	6.1
ENDGAME (3N1)	6.3	5.8	5.8	5.2	5.0	5.9	6.5	6.3	6.3	6.8	6.1
MOONDANCE GLX	6.1	5.3	5.8	6.3	5.7	6.3	6.6	5.3	5.8	6.0	6.1
AST8118LM	5.9	5.9	4.7	5.8	4.3	5.8	6.7	5.7	6.9	6.7	6.1
ATF2116	6.0	5.8	5.4	6.5	5.0	6.0	5.8	4.7	6.7	6.3	6.1
AST8218LM	6.2	5.6	5.6	5.5	4.7	5.9	6.1	4.0	6.9	6.2	6.0
PST-5GQ	6.2	5.4	5.9	5.7	6.3	5.6	6.3	6.3	6.3	6.8	6.0
PST-5MINK	6.1	5.5	5.4	5.7	5.7	5.5	6.8	5.3	6.5	6.8	6.0
NATURALLY GREEN	6.1	6.1	5.0	5.7	5.0	5.5	6.0	5.0	7.0	6.2	6.0
SETFM2	6.1	5.9	5.8	6.0	6.3	5.5	5.7	5.3	6.4	6.2	6.0
BIRMINGHAM	5.8	6.1	5.1	5.5	3.0	5.7	6.3	4.0	7.0	6.5	6.0
NAI-FQZ-17	6.1	6.3	5.0	5.7	6.0	5.7	6.7	5.7	5.9	6.2	6.0
BAR-FA8230	5.8	5.6	4.8	6.3	6.0	5.9	6.4	4.7	6.6	6.2	6.0
A-TF31	6.6	5.8	5.0	5.7	4.7	4.9	6.9	5.7	7.1	6.5	6.0
TANGO	6.1	5.6	5.3	5.7	6.0	5.3	6.7	4.7	6.4	6.5	5.9
ESCALADE	5.8	5.9	5.1	5.8	4.3	6.0	6.6	4.0	6.5	6.0	5.9
BARNOBLE (BAR 9FE MAS)	6.1	6.3	4.8	5.3	5.0	5.4	6.4	6.0	5.9	6.7	5.9
HELLCAT GLR (PST-5E6)	5.8	5.5	5.5	6.3	6.7	5.4	6.1	6.0	5.3	6.3	5.8
OG-WALK	5.8	5.9	4.8	5.7	4.3	5.3	6.0	3.7	6.5	5.7	5.8
RAD-TF131	6.3	5.7	5.2	6.0	6.3	4.1	7.2	6.3	5.7	6.5	5.7
BAR FA 8228	5.8	6.3	5.2	6.0	5.3	5.1	5.8	3.3	5.8	6.2	5.7
GRAND PRIX (FC15-01P)	5.8	5.3	5.3	5.5	4.0	5.6	6.3	4.0	6.1	5.2	5.7
RAD-TF 115 (TURBO SS)	6.0	6.2	4.9	5.2	5.3	3.3	6.7	7.7	6.6	6.5	5.7
PALOMAR	5.8	5.6	4.9	6.2	4.3	5.4	5.5	4.0	6.0	5.8	5.6
KENTUCKY-31	4.6	5.3	3.8	4.8	4.7	4.1	5.3	1.0	5.3	4.7	4.7
LSD VALUE	0.8	1.5	1.3	1.2	1.6	1.3	1.2	1.6	1.8	0.7	0.6
C.V. (%)	7.6	16.9	13.9	11.9	16.2	14.6	11.3	16.4	18.0	6.1	13.6

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

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

TABLE 38.

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	IN1	MI1	NC1	NE1	NJ2	OK1	ON1	OR1	TN1	UT1	MEAN
TEACHER (PPG-TF 313)	7.8	6.8	6.0	8.5	6.0	6.8	8.3	5.3	7.8	7.0	7.1	7.7	7.0
ZION (BAR TF 134)	7.2	7.3	6.3	8.6	6.8	6.9	9.0	5.5	7.4	7.0	6.6	7.0	7.0
PPG-TF 318	7.2	7.3	6.3	8.6	6.8	6.7	7.0	5.5	7.2	7.0	6.9	7.3	7.0
FIRENZA II (PPG-TF 244)	6.9	7.1	6.3	8.7	7.0	6.9	6.7	6.4	6.7	7.0	6.1	7.3	7.0
EXTRAVAGANZA (PST-5MCMO)	6.8	7.4	6.3	8.7	7.3	6.7	6.3	6.0	6.3	7.0	6.9	7.0	7.0
GALACTIC (SESCR1)	7.0	5.3	6.0	8.8	7.6	6.7	7.7	6.3	7.2	7.0	6.6	7.7	6.9
NAI-ST5	7.0	6.5	6.0	8.8	7.3	6.7	7.0	5.7	7.2	7.0	6.4	7.8	6.9
CAPITAN (DLFPS-321/3705)	6.9	6.1	6.0	8.8	7.2	7.0	6.7	6.2	7.1	6.7	6.6	7.5	6.9
PROVIDENCE (GO-RH20)	7.3	6.5	5.7	8.7	6.8	6.7	8.3	5.7	7.2	6.7	6.7	7.5	6.9
TITANIUM G-LS (PPG-TF 255)	6.9	6.3	6.0	8.7	7.1	6.9	6.7	5.9	7.1	7.0	6.6	7.8	6.9
DYNAMITE G-LS (PPG-TF 254)	6.8	6.8	6.7	8.7	6.3	6.9	7.7	5.7	7.4	7.0	6.7	7.2	6.9
TD2	6.8	6.9	6.7	8.7	6.5	7.1	8.3	5.4	6.9	7.0	6.5	7.3	6.9
FIERCE (K18-RS6)	7.4	6.3	6.3	8.7	6.8	6.7	8.7	5.4	7.0	7.0	6.7	7.3	6.9
PPG-TF 337	7.1	6.9	6.7	8.8	6.1	6.9	7.0	5.5	7.2	7.3	6.7	7.7	6.9
DAYBREAK (AH2)	7.4	5.4	5.3	8.7	7.1	7.1	8.7	5.3	7.3	7.0	6.8	7.7	6.9
TANK (PPG-TF 338)	6.8	7.2	6.0	8.6	6.6	7.1	6.0	5.8	7.2	7.0	6.3	7.0	6.9
SERENADE (PPG-TF 320)	6.9	6.8	6.7	8.5	7.3	6.7	6.3	5.8	7.3	7.0	6.1	7.2	6.9
K18-WB1	7.0	7.2	5.7	8.6	6.1	6.7	8.3	5.5	7.3	7.0	6.3	8.3	6.9
NT-3	7.4	6.8	6.0	8.5	6.4	6.9	5.7	5.1	7.1	7.0	7.1	7.3	6.9
BULLSEYE LTZ	7.1	7.2	6.3	8.7	6.3	6.8	6.7	5.4	7.3	7.0	6.3	7.7	6.9
TRIAD (PPG-TF 323)	7.2	7.0	5.7	8.7	6.4	6.7	6.7	5.5	7.2	6.7	6.5	8.2	6.9
FIRECRACKER G-LS (PPG-TF 315)	7.0	6.3	6.3	8.7	6.3	6.6	7.0	6.1	7.3	7.0	6.4	7.8	6.9
RC4	7.3	6.7	5.7	8.7	6.8	6.9	7.0	5.7	6.7	7.0	6.5	7.5	6.9
GLX REVIVE (PST-5GLBS)	6.6	6.9	6.0	8.5	7.3	6.7	5.3	6.5	6.8	7.0	6.1	7.0	6.9
AVENGER III (PPG-TF 308)	7.0	7.3	5.7	8.7	6.6	6.8	6.3	5.3	6.5	6.7	6.9	7.3	6.9
TYCOON (COL-TF-148)	6.9	6.9	6.3	8.7	6.1	6.8	7.3	5.5	7.1	7.0	6.6	7.7	6.9
GEM (PPG-TF 316)	7.2	5.4	7.0	8.7	7.1	6.9	7.7	5.7	7.3	7.0	6.5	7.2	6.9
DLFPS-TF/3553	7.1	6.7	6.3	8.5	6.3	6.9	7.3	5.7	7.2	7.3	6.3	7.8	6.9
EXPANSE (PPG-TF 262)	7.3	6.2	6.7	8.7	6.7	6.7	7.7	5.5	7.2	6.7	6.7	7.5	6.9
BATTLE HAWK (NAI-ROS4)	7.2	5.5	6.3	8.5	6.6	6.9	7.0	5.9	7.3	7.0	6.7	7.3	6.8
SPYDER 2LS (ZRC1)	7.6	5.6	6.7	8.7	6.4	6.8	8.3	5.3	7.6	7.3	6.6	7.5	6.8
RHF	7.2	5.9	6.3	8.7	6.8	6.6	8.0	5.7	7.0	7.3	6.5	7.5	6.8
PADRE 2	6.3	7.1	6.0	8.6	6.3	6.5	5.3	6.3	6.6	7.3	7.1	7.2	6.8
PPG-TF 249	7.0	6.1	6.3	8.7	5.8	6.9	8.0	6.0	6.8	7.0	6.9	7.7	6.8
RS1	7.2	6.5	6.0	8.8	6.5	7.1	7.7	5.2	7.1	7.0	6.3	7.5	6.8
DLFPS-321/3706	7.1	6.6	6.7	8.5	5.7	6.7	7.7	5.5	7.1	7.0	7.1	8.0	6.8
CLASH (AH1)	7.6	5.6	6.0	8.7	7.3	6.9	8.0	5.3	7.4	7.0	6.0	7.3	6.8
FALCON SUPREME (RH1)	6.7	6.5	5.7	8.8	6.9	6.9	7.7	5.3	7.0	7.0	6.5	7.2	6.8
5LSS	7.4	6.6	6.7	8.8	5.6	6.9	7.3	4.9	7.7	7.0	6.4	7.8	6.8
DEGAS (LTP-TF-111)	7.0	6.3	6.3	8.7	6.0	6.9	8.0	5.5	6.8	7.0	6.9	7.8	6.8
DRAGSTER	6.8	6.1	6.0	8.7	5.7	7.0	7.7	5.5	7.3	7.3	7.0	7.7	6.8
STEALTH (PPG-TF 238)	6.9	5.6	5.7	8.8	6.8	6.7	6.7	5.9	7.5	7.0	6.2	7.3	6.8
PPG-TF 312	7.2	6.1	5.3	8.7	5.7	7.1	8.0	5.3	7.3	7.0	6.7	8.0	6.8
DLFPS-321/3708	7.1	5.6	6.0	8.3	6.9	6.9	7.0	5.9	7.0	7.3	6.7	7.2	6.8
DLFPS-321/3707	7.3	6.6	5.7	8.6	6.7	7.1	8.0	5.2	7.2	7.3	6.1	7.2	6.8
VALSETZ (PPG-TF 257)	6.8	6.8	6.0	8.6	6.3	6.7	6.3	5.5	7.1	7.0	6.7	7.5	6.8



TABLE 38.  
(CONT'D)

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/												
	CT1	IA1	IN1	MI1	NC1	NE1	NJ2	OK1	ON1	OR1	TN1	UT1	MEAN
TITAN GLX (TF445)	7.3	6.1	6.7	8.6	6.8	6.9	7.3	5.4	6.8	7.0	6.2	7.7	6.8
XANADU (JT 268 )	7.3	6.0	6.3	8.7	7.0	7.0	5.7	5.6	7.0	7.0	6.0	7.5	6.8
FASTLANE (BY-TF-169)	6.6	6.6	6.3	8.7	5.5	6.9	7.3	5.4	7.3	7.3	6.9	7.7	6.8
ESSENTIAL 2 (DLFPS-TF/3552)	6.8	6.3	6.0	8.6	7.1	6.5	6.7	5.5	6.7	7.3	6.7	7.3	6.8
HOUNDOG NINE (DLFPS-321/3702)	6.8	7.0	5.0	8.7	5.8	7.0	7.0	5.7	6.8	7.0	6.4	7.8	6.8
BLADERUNNER 3 (DLFPS-321/3701)	7.3	6.3	6.7	8.5	5.3	6.8	6.7	5.9	7.3	7.0	6.5	7.5	6.8
DLFPS-321/3695	7.2	7.2	5.7	8.6	5.6	6.7	6.7	5.4	7.0	7.0	6.5	7.5	6.8
TITAN MAX (TF456)	7.2	5.3	6.0	8.7	6.6	7.1	6.7	5.7	7.1	7.0	6.3	7.5	6.8
GLX ACED (PST-5DART)	6.9	6.9	6.7	8.5	6.8	6.6	6.3	6.0	6.8	6.7	5.9	6.8	6.8
ROVER (PPG-TF 306)	6.9	6.0	6.7	8.7	6.4	6.7	7.3	5.3	7.3	7.0	6.6	7.3	6.8
FIREHAWK SLT	6.9	7.0	5.7	8.7	6.0	6.9	5.3	4.9	7.3	7.3	6.5	7.3	6.7
BONFIRE (JS DTT)	6.9	5.8	6.3	8.7	6.8	6.9	7.3	5.9	6.5	7.3	6.3	7.2	6.7
DLFPS-321/3694	7.0	7.2	5.0	8.7	5.2	7.0	7.0	5.1	7.3	7.0	6.6	7.5	6.7
SOUTHSIDE (PPG-TF 267)	7.3	5.3	6.7	8.5	6.6	6.9	6.7	5.5	7.3	7.0	6.5	7.5	6.7
DLFPS-321/3693	7.3	6.5	6.0	8.5	5.7	7.0	7.3	5.3	7.3	6.7	6.3	7.5	6.7
RDC	7.2	4.8	7.0	8.8	6.3	7.1	6.3	5.7	6.9	7.3	6.6	7.2	6.7
K18-NSE	7.1	5.8	5.7	8.6	5.3	7.1	8.7	5.3	7.7	6.7	6.3	7.7	6.7
RHL2	6.9	6.8	6.0	8.7	5.8	6.7	7.7	5.3	7.2	6.7	6.3	7.7	6.7
3B2	6.6	6.2	5.3	8.7	6.1	6.7	5.7	5.8	6.9	7.0	6.9	7.5	6.7
OKEEFE (LTP-TF-122)	7.0	6.3	5.7	8.7	5.8	7.0	7.7	5.5	7.2	7.0	6.3	7.0	6.7
SYMPHONY (PPG-TF 305)	7.1	5.1	5.7	8.7	6.6	7.1	7.0	5.9	7.3	7.0	5.9	7.7	6.7
RACEWAY (DLFPS-321/3696)	6.4	7.2	5.7	8.6	5.3	7.0	5.0	5.3	7.2	7.0	6.9	7.3	6.7
TALLADEGA II (NAI-3N2)	6.8	5.8	5.7	8.7	5.7	6.9	5.7	6.1	7.0	7.0	6.5	7.7	6.7
FINELAWN SUPREME (RH3)	7.1	5.8	6.0	8.3	6.4	6.7	7.3	5.5	6.9	7.0	6.5	7.5	6.7
ENDGAME (3N1)	6.7	6.4	6.0	8.7	6.3	6.5	5.3	5.7	6.9	7.3	6.2	7.2	6.7
GRO-PRO (SE53D2)	6.5	7.1	5.3	8.5	6.8	6.6	5.0	5.9	6.3	7.0	6.4	6.5	6.7
PST-5GQ	6.2	6.8	6.0	8.6	6.3	6.8	5.3	5.8	6.9	6.7	6.3	6.8	6.7
GALLARDO (DLFPS-TF/3550)	7.0	5.6	5.3	8.6	6.8	6.9	6.0	5.5	7.1	7.3	5.9	7.7	6.7
PST-5TRN	6.3	6.5	5.3	8.7	6.8	6.6	6.0	5.9	6.7	7.0	6.3	6.7	6.7
HEMI	6.9	6.5	4.3	8.7	6.3	6.8	6.7	5.0	6.8	7.7	6.5	7.2	6.7
JT 233	6.8	6.3	5.3	8.5	6.5	6.7	7.0	4.7	7.1	7.3	6.8	7.2	6.6
PARAMOUNT	7.0	6.1	5.7	8.7	5.5	6.7	6.7	5.3	6.9	7.0	6.6	7.8	6.6
RAPTOR III	6.7	6.7	5.3	8.6	6.0	6.7	6.0	5.1	6.8	7.0	6.8	7.3	6.6
SR 8700 (TMT1)	6.8	6.2	6.0	8.7	5.6	7.0	5.7	5.5	6.6	7.0	6.7	7.3	6.6
TOUGH (NAI-TUE)	7.0	5.5	5.0	8.7	6.4	6.7	5.7	5.4	7.0	6.7	6.8	7.2	6.6
RAD-TF105	6.8	5.9	6.0	8.6	6.0	6.7	7.7	4.9	6.9	7.0	6.9	7.2	6.6
PST-5DZM	6.5	5.8	5.7	8.6	6.3	6.6	4.7	5.9	6.8	7.7	6.5	7.0	6.6
DLFPS-321/3703	6.8	7.3	5.3	8.7	5.5	6.7	5.3	5.2	6.7	7.0	6.3	7.7	6.6
SETFM3	6.4	6.5	5.7	8.7	6.4	6.7	4.7	5.3	7.2	7.0	6.3	6.8	6.6
ROWDIER (DLFPS-321/3699)	7.1	5.9	5.7	8.7	5.3	6.7	6.7	5.4	7.0	7.3	6.5	7.3	6.6
ESTRENA	6.9	6.1	6.3	8.6	4.8	6.6	6.0	5.5	7.4	7.0	6.6	7.5	6.6
LAFAYETTE (GO-AOMK)	6.3	6.6	5.3	8.5	6.0	6.5	5.3	5.7	6.5	7.3	6.7	7.0	6.6
LIFEGUARD	6.3	5.8	6.0	8.5	6.6	6.7	5.7	6.1	6.3	7.0	6.5	7.2	6.6
BENTLEY (DLFPS-321/3679)	6.8	6.3	6.3	8.7	5.2	6.9	5.7	5.5	6.8	7.3	6.4	7.0	6.6
TAR HEEL III (PST-5THM)	6.2	6.3	5.7	8.6	7.0	6.6	3.7	5.6	6.4	7.0	6.6	6.8	6.6
MONUMENT (PST-5SQB)	6.4	6.4	5.3	8.5	6.6	6.5	4.3	5.6	6.8	7.0	6.5	6.7	6.6
RAPTOR LS (PPG-TF 336)	7.1	4.9	6.3	8.6	5.7	7.0	7.7	5.5	6.9	7.0	6.5	7.5	6.6

TABLE 38.  
(CONT'D)

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/												
	CT1	IA1	IN1	MI1	NC1	NE1	NJ2	OK1	ON1	OR1	TN1	UT1	MEAN
KIZZLE (K18-ROE)	6.6	5.3	5.7	8.5	6.3	6.9	5.0	6.0	6.8	7.0	6.3	7.3	6.6
ATF1768	6.2	6.5	5.0	8.4	6.1	6.5	4.3	5.4	6.7	7.7	6.9	7.0	6.6
PPG-TF 231	7.0	5.5	5.7	8.6	5.4	6.6	7.0	5.2	7.3	7.3	6.5	7.3	6.6
BRAVO 2	6.0	6.4	5.0	8.5	6.3	6.5	4.3	5.7	6.6	7.0	6.5	7.0	6.5
SE5STAR	6.4	7.0	4.7	8.3	5.8	6.7	4.0	5.6	6.8	7.0	6.5	6.8	6.5
NAI-FQZ-17	6.2	6.9	5.0	8.7	6.0	6.7	3.3	5.6	6.8	7.3	6.1	6.8	6.5
HELLCAT GLR (PST-5E6)	6.3	6.2	5.7	8.5	6.9	6.7	6.0	5.3	6.3	7.0	6.3	6.8	6.5
ATF2116	6.1	6.8	5.7	8.4	5.9	6.7	3.3	6.2	6.3	7.3	6.3	6.7	6.5
A-TF31	6.8	7.2	4.7	8.3	5.5	6.4	4.7	4.8	7.2	7.0	6.9	6.7	6.5
AST8118LM	6.3	7.3	4.7	8.5	5.1	6.7	3.3	5.2	6.5	7.3	7.0	7.0	6.5
GRANDE 3	6.8	5.8	5.7	8.7	5.3	6.7	7.3	5.3	6.8	7.0	6.5	7.3	6.5
FAIRFIELD (SETF104)	7.3	5.8	4.3	8.6	5.8	6.7	6.3	5.2	6.5	7.3	6.3	7.2	6.5
ORIOLE (PST-5BYOB)	6.0	6.4	5.7	8.5	6.9	6.7	4.7	5.9	5.8	7.0	6.1	6.7	6.5
BANDIT	6.3	5.8	5.0	8.5	5.4	6.7	4.3	5.9	6.9	7.3	6.5	6.8	6.5
TANGO	6.4	5.4	5.3	8.4	6.2	6.9	4.0	5.3	6.6	7.0	6.7	7.0	6.5
MOONDANCE GLX	6.4	5.7	5.7	8.6	6.3	6.7	3.7	5.9	6.6	7.0	6.1	6.2	6.5
TOPSHELF (BGR-TF3)	6.3	6.8	5.3	8.6	4.8	6.5	3.3	5.3	6.6	7.3	7.0	6.8	6.4
FAYETTE	6.6	6.3	5.0	8.7	5.4	6.8	3.7	5.4	6.7	7.0	6.1	7.0	6.4
PST-5DC24	6.4	6.2	5.7	8.5	5.9	6.7	3.7	5.3	5.9	7.0	6.5	7.3	6.4
PRO GOLD	6.0	6.1	5.7	8.2	6.0	6.8	4.3	5.2	6.5	7.0	6.8	6.8	6.4
BARNOBLE (BAR 9FE MAS)	6.2	6.6	4.0	8.5	5.3	6.8	5.0	5.1	6.4	7.3	6.5	7.0	6.4
ESCALADE	5.8	6.8	5.0	8.3	5.2	6.5	4.0	5.6	6.5	7.0	6.8	6.7	6.4
SETFM2	6.4	6.2	5.7	8.5	5.7	6.5	4.7	5.3	6.0	7.0	6.7	6.7	6.4
RAD-TF131	6.5	7.3	4.3	8.5	4.4	6.5	6.0	4.4	7.1	7.7	6.3	7.2	6.4
COPIOUS TF	6.8	5.1	4.7	8.1	5.3	6.8	4.0	5.7	6.9	7.3	6.5	7.0	6.4
JT 517	6.5	5.7	5.7	8.1	5.6	6.6	4.0	5.1	7.0	7.3	6.6	7.0	6.4
BAR-FA8230	6.2	5.6	5.0	8.5	5.8	6.7	5.0	5.8	6.3	7.3	6.2	6.5	6.4
NATURALLY GREEN	6.4	6.4	4.3	8.1	5.5	6.7	3.7	5.1	6.5	7.0	6.6	6.5	6.3
LBF	6.4	6.0	5.0	8.5	5.3	6.8	4.7	5.2	6.3	7.0	6.3	7.0	6.3
BULLSEYE	7.1	5.8	4.7	8.4	5.2	6.5	4.7	5.1	6.6	7.3	6.4	6.8	6.3
AST8218LM	5.8	6.8	4.7	8.3	4.8	6.5	4.7	5.4	6.3	7.0	6.7	6.8	6.3
PST-5MINK	6.4	6.5	5.3	8.5	5.2	6.5	3.7	5.2	6.4	6.7	6.1	7.2	6.3
RAD-TF 115 (TURBO SS)	6.6	7.3	3.7	8.5	4.2	6.7	6.3	3.8	7.0	7.3	6.3	7.0	6.3
OG-WALK	5.9	7.0	4.7	8.5	5.1	6.6	4.0	4.9	6.1	7.0	6.5	6.2	6.3
BIRMINGHAM	6.3	6.8	4.3	8.5	4.8	6.5	4.0	4.8	6.7	7.0	6.3	6.7	6.3
GRAND PRIX (FC15-01P)	5.9	5.7	5.0	8.1	5.8	6.4	4.7	5.1	6.0	7.3	6.5	6.8	6.2
BAR FA 8228	5.8	6.8	5.3	8.2	5.0	6.4	3.3	4.7	6.2	7.3	6.3	6.7	6.1
PALOMAR	5.6	6.3	4.3	8.1	4.9	6.5	3.0	4.7	6.1	7.0	7.1	6.3	6.1
KENTUCKY-31	4.7	5.6	3.3	6.6	5.0	5.9	1.0	4.3	5.1	7.0	6.4	5.2	5.4
LSD VALUE	0.9	2.1	1.1	0.6	1.5	0.8	1.8	1.2	1.1	0.6	1.5	0.9	0.5
C.V. (%)	8.3	21.0	12.3	4.1	15.3	7.0	18.2	14.5	9.9	5.3	14.6	8.2	12.0

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

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

TABLE 39. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA7	IA1	MO1	NC1	OK1	ON1	PA2	TN1	VA1	MEAN
PRO GOLD	81.7	88.7	76.7	93.7	98.2	94.7	98.8	89.0	94.3	92.0
GLX REVIVE (PST-5GLBS)	94.7	85.5	80.0	94.0	98.2	96.2	98.8	88.1	96.0	91.8
FIRENZA II (PPG-TF 244)	85.0	91.6	81.7	98.3	97.6	85.8	99.0	86.1	96.0	91.7
TD2	90.0	88.1	81.7	97.0	97.3	88.2	98.7	89.0	99.0	91.6
HOUNDG NINE (DLFPS-321/3702)	90.0	88.6	81.7	91.7	96.4	89.7	98.7	87.3	99.0	91.3
LIFEGUARD	73.3	88.5	81.7	95.0	97.5	94.0	98.7	86.3	99.0	91.2
PPG-TF 318	90.0	87.1	70.0	95.7	97.3	94.2	99.0	87.1	99.0	91.2
DAYBREAK (AH2)	81.7	90.7	85.0	95.7	97.9	84.0	98.8	87.6	96.0	91.2
FASTLANE (BY-TF-169)	86.7	87.5	78.3	97.0	98.1	80.7	98.7	89.7	99.0	91.1
TITAN GLX (TF445)	91.7	85.5	83.3	97.7	96.3	96.2	98.8	86.2	99.0	91.1
ESCALADE	83.3	88.9	73.3	97.7	97.6	95.5	99.0	84.3	96.0	91.1
CLASH (AH1)	83.3	88.7	88.3	93.7	97.5	87.5	99.0	88.1	86.3	91.1
DEGAS (LTP-TF-111)	88.3	87.0	70.0	97.7	96.9	90.5	99.0	87.2	99.0	91.0
K18-WB1	90.0	88.4	80.0	94.3	97.6	84.8	98.8	87.5	93.0	91.0
CAPITAN (DLFPS-321/3705)	85.0	89.9	75.0	97.0	97.3	85.8	98.8	86.7	93.0	90.9
TEACHER (PPG-TF 313)	80.0	91.5	78.3	92.7	91.5	88.5	98.8	88.3	96.0	90.9
KIZZLE (K18-ROE)	90.0	85.6	83.3	94.7	97.9	89.8	98.8	87.5	96.0	90.9
BIRMINGHAM	91.7	84.1	81.7	99.0	97.9	97.0	98.8	85.6	96.0	90.8
ESSENTIAL 2 (DLFPS-TF/3552)	85.0	89.2	70.0	95.7	96.9	90.0	98.8	86.1	99.0	90.8
BRAVO 2	83.3	86.7	81.7	97.7	97.1	94.7	98.7	84.4	99.0	90.8
SYMPHONY (PPG-TF 305)	81.7	86.7	78.3	93.0	97.5	90.7	99.0	87.3	99.0	90.8
KENTUCKY-31	89.7	84.9	91.7	98.3	97.5	95.3	96.2	85.3	89.7	90.7
RACEWAY (DLFPS-321/3696)	78.3	85.2	81.7	95.0	96.1	94.0	99.0	88.4	96.0	90.6
SERENADE (PPG-TF 320)	75.0	88.3	75.0	95.7	98.2	90.0	98.8	85.7	99.0	90.6
SPYDER 2LS (ZRC1)	85.0	85.7	81.7	96.3	96.9	90.5	98.8	87.3	96.0	90.6
FAYETTE	86.7	81.9	83.3	97.0	97.9	96.3	99.0	87.0	94.3	90.5
PADRE 2	85.0	87.3	76.7	97.7	97.3	85.7	98.8	85.8	99.0	90.5
TAR HEEL III (PST-5THM)	86.7	81.9	76.7	95.7	97.2	96.2	99.0	86.9	99.0	90.5
NATURALLY GREEN	81.7	85.0	81.7	96.3	96.8	95.5	98.8	85.7	99.0	90.4
FALCON SUPREME (RH1)	90.0	84.3	86.7	97.7	97.9	87.3	99.0	90.0	66.0	90.4
RS1	91.7	90.1	83.3	92.3	96.1	77.5	98.7	87.0	99.0	90.4
BULLSEYE LTZ	81.7	86.6	81.7	97.0	97.9	83.2	99.0	88.1	99.0	90.3
DLFPS-321/3706	88.3	86.4	80.0	92.0	95.4	80.8	98.8	89.3	99.0	90.3
VALSETZ (PPG-TF 257)	85.0	84.5	63.3	94.0	97.5	87.5	98.8	89.9	96.3	90.3
RDC	83.3	88.5	83.3	94.3	95.9	88.2	98.5	86.9	89.7	90.3
DLFPS-321/3695	83.0	86.3	73.3	96.3	97.6	80.8	98.8	88.1	99.0	90.2
GLX ACED (PST-5DART)	86.7	79.0	76.7	96.3	97.9	93.3	99.0	88.3	96.0	90.2
TITAN MAX (TF456)	85.0	82.5	85.0	97.7	97.4	91.5	98.7	85.6	97.7	90.1
ROVER (PPG-TF 306)	83.3	82.9	76.7	97.0	96.9	90.0	98.8	88.3	96.0	90.1
DRAGSTER	85.0	85.8	73.3	96.3	94.7	89.2	98.8	87.1	97.7	90.1
TANK (PPG-TF 338)	81.7	85.9	73.3	97.7	97.4	89.7	99.0	87.5	91.3	90.1
EXPANSE (PPG-TF 262)	80.0	88.1	75.0	95.0	96.7	85.7	98.8	85.7	97.7	90.1
LBF	83.3	80.5	80.0	94.3	97.5	95.7	98.7	87.5	99.0	90.0
ORIOLE (PST-5BYOB)	80.0	83.3	78.3	94.3	97.9	95.5	98.8	85.5	99.0	90.0
NT-3	73.3	87.1	65.0	95.7	93.7	93.8	98.8	86.7	99.0	90.0
FIERCE (K18-RS6)	78.3	86.3	85.0	95.0	95.5	85.7	98.8	88.2	89.7	90.0
5LSS	83.3	90.5	70.0	95.7	95.0	76.5	98.8	87.7	99.0	90.0

TABLE 39.  
(CONT'D)

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA7	IA1	MO1	NC1	OK1	ON1	PA2	TN1	VA1	MEAN
PROVIDENCE (GO-RH20)	86.7	81.7	83.3	97.0	97.2	89.0	99.0	86.5	99.0	90.0
SR 8700 (TMT1)	73.3	84.3	83.3	96.3	97.3	88.3	98.7	86.9	99.0	90.0
TRIAD (PPG-TF 323)	85.0	85.5	73.3	97.0	97.3	88.0	98.7	87.4	93.0	90.0
ZION (BAR TF 134)	75.0	87.3	71.7	93.7	96.7	89.8	98.8	87.1	99.0	90.0
GALLARDO (DLFPS-TF/3550)	91.7	86.1	75.0	95.0	97.2	85.0	99.0	86.1	99.0	89.9
GEM (PPG-TF 316)	85.0	84.3	75.0	95.7	97.7	86.7	98.7	88.1	94.7	89.9
BAR-FA8230	85.0	80.3	81.7	96.3	97.5	96.8	98.7	84.4	99.0	89.9
DLFPS-321/3694	89.7	88.0	80.0	93.7	93.1	83.8	98.8	87.1	99.0	89.9
OKEEFE (LTP-TF-122)	85.0	86.6	71.7	95.7	96.9	84.2	98.7	88.3	89.3	89.9
RHF	90.0	87.3	81.7	97.0	97.2	82.5	99.0	85.7	96.0	89.9
BLADERUNNER 3 (DLFPS-321/3701)	80.0	83.5	76.7	97.7	97.1	90.5	98.8	85.4	99.0	89.9
FINELAWN SUPREME (RH3)	88.3	83.2	83.3	97.7	97.9	88.8	98.8	85.9	92.7	89.8
BENTLEY (DLFPS-321/3679)	81.7	81.1	71.7	94.7	96.8	95.0	98.8	87.4	97.7	89.8
DLFPS-321/3693	76.7	86.7	75.0	95.7	94.1	84.2	98.8	89.1	99.0	89.8
TITANIUM G-LS (PPG-TF 255)	88.0	80.3	85.0	93.7	97.5	91.7	99.0	86.7	96.0	89.8
TOPSHELFF (BGR-TF3)	86.7	85.9	73.3	93.0	96.7	93.2	98.8	83.7	97.7	89.7
PPG-TF 312	85.0	90.4	78.3	92.0	93.6	73.3	99.0	88.3	97.7	89.7
EXTRAVAGANZA (PST-5MCMO)	88.3	79.8	71.7	95.7	96.9	95.5	98.5	87.7	96.0	89.7
GALACTIC (SESCR1)	85.0	84.1	76.7	98.3	97.0	83.2	99.0	87.7	99.0	89.7
ROWDIER (DLFPS-321/3699)	81.7	82.1	80.0	97.7	97.3	92.5	98.5	87.1	96.0	89.6
BARNOBLE (BAR 9FE MAS)	90.0	83.5	71.7	93.7	96.3	96.2	99.0	83.4	97.7	89.6
PPG-TF 337	88.3	82.1	70.0	94.3	97.0	90.7	97.5	85.3	99.0	89.6
OG-WALK	86.7	80.9	83.3	97.0	97.5	94.5	98.7	84.5	99.0	89.6
ESTRENA	90.0	88.9	80.0	96.0	90.7	90.3	98.7	85.0	91.3	89.6
PARAMOUNT	86.7	83.2	76.7	95.7	97.4	84.2	98.7	86.9	99.0	89.5
RAPTOR LS (PPG-TF 336)	73.3	85.1	76.7	95.0	96.7	81.7	98.8	89.3	99.0	89.5
BAR FA 8228	91.7	79.8	75.0	95.7	98.2	96.2	98.7	85.8	96.0	89.5
GRO-PRO (SE53D2)	78.3	82.7	71.7	95.0	97.5	97.0	98.8	85.6	94.7	89.5
XANADU (JT 268 )	88.3	84.1	86.7	95.7	96.7	89.8	98.8	83.6	92.7	89.5
GRANDE 3	83.3	83.0	76.7	95.7	96.4	85.5	98.7	87.7	96.0	89.4
PPG-TF 249	60.0	85.3	75.0	94.3	97.9	94.5	98.7	85.3	96.0	89.4
JT 233	81.7	83.3	78.3	96.3	97.6	89.8	98.8	85.9	89.7	89.4
RAPTOR III	90.0	82.0	78.3	93.3	96.8	84.8	98.8	87.1	96.0	89.3
DLFPS-321/3708	91.7	80.1	63.3	93.0	97.7	90.8	99.0	87.4	99.0	89.3
AST8118LM	85.0	81.6	71.7	94.3	97.0	94.7	98.8	85.3	99.0	89.3
BATTLE HAWK (NAI-ROS4)	88.3	82.3	76.7	94.3	98.0	78.0	98.5	87.2	99.0	89.2
ENDGAME (3N1)	73.3	80.5	68.3	96.3	98.1	91.5	98.7	86.9	99.0	89.1
RC4	88.3	82.1	68.3	91.0	96.5	84.2	98.5	88.1	96.0	89.1
TALLADEGA II (NAI-3N2)	71.7	81.9	80.0	98.3	97.8	88.0	98.7	86.6	96.0	89.1
PPG-TF 231	88.3	80.7	80.0	93.7	94.2	89.8	98.8	87.7	97.7	89.1
DLFPS-321/3703	90.0	81.5	76.7	97.0	94.1	85.7	99.0	87.6	99.0	89.0
3B2	86.7	84.0	78.3	96.3	96.8	80.8	98.8	85.2	99.0	89.0
STEALTH (PPG-TF 238)	75.0	83.5	71.7	95.7	96.4	88.2	99.0	86.4	93.0	89.0
DLFPS-TF/3553	85.0	85.5	71.7	95.7	96.8	80.8	99.0	85.5	99.0	89.0
JT 517	86.7	76.9	76.7	94.3	97.3	96.2	98.7	86.7	99.0	89.0
BONFIRE (JS DTT)	76.3	82.9	86.7	94.3	97.7	87.5	98.8	84.5	96.0	89.0
PST-5TRN	65.0	80.0	78.3	96.3	97.9	94.8	98.8	85.5	97.7	89.0

TABLE 39. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) 2019-23 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA7	IA1	MO1	NC1	OK1	ON1	PA2	TN1	VA1	MEAN
ATF1768	83.3	77.6	78.3	97.0	97.5	94.8	98.8	84.5	99.0	89.0
AST8218LM	83.3	83.1	76.7	91.0	96.9	93.2	98.5	84.4	96.0	89.0
BANDIT	88.3	83.3	83.3	65.0	97.7	92.5	99.0	84.5	96.0	88.9
MOONDANCE GLX	83.3	77.8	81.7	95.7	97.9	94.8	99.0	83.2	99.0	88.9
PST-5GQ	88.3	79.9	70.0	94.0	97.2	94.0	98.5	84.1	99.0	88.9
FIRECRACKER G-LS (PPG-TF 315)	76.7	81.9	81.7	92.0	98.2	81.7	98.8	87.7	96.0	88.8
SETFM3	80.0	80.9	71.7	93.3	97.5	93.8	99.0	84.7	97.7	88.8
TYCOON (COL-TF-148)	66.7	86.1	80.0	95.0	94.7	83.3	98.7	88.3	89.3	88.8
BULLSEYE	80.0	78.1	80.0	95.0	97.8	90.8	99.0	85.7	94.3	88.7
COPIOUS TF	85.0	81.0	80.0	95.0	96.8	86.7	98.8	84.5	97.7	88.6
ATF2116	76.7	81.7	70.0	97.7	97.5	92.3	98.7	82.4	99.0	88.6
DYNAMITE G-LS (PPG-TF 254)	88.3	80.3	53.0	96.3	97.0	88.3	99.0	87.8	96.0	88.5
HEMI	80.0	81.0	81.7	92.7	93.9	89.0	99.0	86.6	99.0	88.5
MONUMENT (PST-5SQB)	83.3	80.5	73.3	96.3	97.9	93.3	98.7	83.3	92.7	88.5
NAI-ST5	73.3	81.2	76.7	97.0	97.2	93.3	98.8	83.3	96.0	88.5
K18-NSE	91.7	90.5	81.7	95.7	91.7	69.0	98.8	88.2	89.3	88.5
PST-5MINK	76.7	78.2	63.3	95.7	96.5	91.3	98.8	87.5	96.0	88.5
TOUGH (NAI-TUE)	93.3	76.0	78.3	97.7	97.2	93.0	98.7	84.6	96.0	88.4
SETFM2	83.3	78.5	78.3	91.3	97.3	92.0	98.5	85.0	92.7	88.4
HELLCAT GLR (PST-5E6)	73.3	78.5	76.7	93.3	96.1	90.7	98.7	86.1	99.0	88.4
PALOMAR	85.0	77.6	85.0	96.3	97.6	92.8	98.5	82.3	99.0	88.3
AVENGER III (PPG-TF 308)	76.7	77.3	71.7	95.7	96.5	87.3	99.0	86.7	96.0	88.2
DLFPS-321/3707	71.7	83.3	78.3	92.0	95.7	81.5	98.7	86.9	96.0	88.2
FIREHAWK SLT	76.7	80.9	76.7	93.7	91.1	88.2	99.0	87.4	96.0	88.1
SOUTHSIDE (PPG-TF 267)	85.0	81.2	78.3	96.3	96.4	82.5	99.0	85.0	97.7	88.1
GRAND PRIX (FC15-01P)	85.0	75.1	78.3	95.0	97.9	95.3	98.7	84.3	92.7	87.9
FAIRFIELD (SETF104)	85.0	79.9	83.3	94.3	95.3	84.2	98.8	85.2	96.0	87.8
NAI-FQZ-17	85.0	78.5	73.3	92.7	95.2	91.5	98.7	85.0	91.3	87.8
TANGO	83.3	78.6	76.7	65.7	97.6	93.2	98.8	84.5	97.7	87.7
A-TF31	80.0	82.9	76.7	88.7	90.5	89.7	98.7	84.4	89.7	87.5
LAFAYETTE (GO-AOMK)	83.3	74.3	63.3	97.0	97.9	86.5	98.8	86.3	99.0	87.5
RHL2	73.3	84.3	76.7	96.3	87.7	83.3	98.8	86.7	99.0	87.5
PST-5DZM	81.7	74.3	70.0	94.7	96.5	94.7	99.0	84.7	92.7	87.4
SE5STAR	86.7	77.3	75.0	96.3	96.3	90.7	99.0	82.4	96.0	87.3
RAD-TF105	81.7	77.1	75.0	93.3	92.7	84.2	99.0	87.3	96.0	87.2
PST-5DC24	80.0	72.0	73.3	92.7	97.9	88.2	99.0	85.9	99.0	87.2
RAD-TF131	75.0	75.5	73.3	88.7	81.7	78.3	98.7	83.5	93.0	81.8
RAD-TF 115 (TURBO SS)	76.7	73.7	75.0	87.0	66.9	75.0	97.5	85.3	96.0	78.6
LSD VALUE	19.0	12.5	14.5	10.9	7.7	12.6	1.0	7.5	11.7	4.9
C.V. (%)	14.2	10.1	11.7	7.1	5.0	9.0	0.6	5.5	7.6	7.3

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

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

TABLE 40.

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

## PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IA1	OK1	ON1	PA2	TN1	MEAN
MOONDANCE GLX	94.5	91.0	99.0	99.0	81.3	91.4
PPG-TF 249	91.1	89.1	99.0	99.0	85.9	91.1
DLFPS-321/3695	92.6	88.7	99.0	99.0	83.8	91.0
ESSENTIAL 2 (DLFPS-TF/3552)	93.9	85.7	98.7	99.0	86.1	90.9
GALLARDO (DLFPS-TF/3550)	93.2	88.1	98.7	99.0	83.3	90.7
KIZZLE (K18-ROE)	92.7	87.1	99.0	99.0	84.8	90.7
GLX ACED (PST-5DART)	92.2	85.9	99.0	99.0	86.3	90.6
VALSETZ (PPG-TF 257)	93.3	84.9	99.0	99.0	86.4	90.6
RACEWAY (DLFPS-321/3696)	90.6	87.7	98.7	99.0	86.1	90.5
FIRENZA II (PPG-TF 244)	92.9	87.0	99.0	99.0	83.3	90.5
DLFPS-321/3693	93.1	84.7	98.7	99.0	85.8	90.4
GRO-PRO (SE53D2)	92.7	88.9	99.0	99.0	80.5	90.4
PARAMOUNT	91.3	85.7	99.0	99.0	86.9	90.4
LIFEGUARD	92.0	85.7	98.7	99.0	85.0	90.3
ATF2116	88.3	88.9	97.4	99.0	87.3	90.3
CLASH (AH1)	94.3	82.5	98.3	99.0	86.5	90.2
SR 8700 (TMT1)	90.7	85.5	99.0	99.0	86.5	90.2
DYNAMITE G-LS (PPG-TF 254)	91.8	87.1	98.7	99.0	84.7	90.2
TAR HEEL III (PST-5THM)	90.6	84.5	99.0	99.0	87.5	90.2
FIRECRACKER G-LS (PPG-TF 315)	93.8	82.5	98.7	99.0	86.1	90.2
PPG-TF 318	93.1	86.9	99.0	99.0	82.0	90.1
ZION (BAR TF 134)	93.1	83.4	98.7	98.7	85.3	90.1
3B2	89.3	88.7	99.0	99.0	83.7	90.0
CAPITAN (DLFPS-321/3705)	92.4	83.9	99.0	98.7	84.9	90.0
BLADERUNNER 3 (DLFPS-321/3701)	92.3	84.6	98.3	99.0	86.0	90.0
TD2	91.2	84.4	98.3	99.0	86.9	90.0
ROWDIER (DLFPS-321/3699)	91.0	87.0	98.3	99.0	84.1	89.9
PPG-TF 231	92.5	86.2	99.0	99.0	82.9	89.9
TOPSHELF (BGR-TF3)	87.9	88.5	98.7	99.0	85.3	89.8
MONUMENT (PST-5SQB)	92.0	84.6	99.0	99.0	83.5	89.7
AVENGER III (PPG-TF 308)	92.9	85.9	98.0	99.0	83.7	89.7
DAYBREAK (AH2)	94.3	81.7	98.7	99.0	85.2	89.7
DRAGSTER	93.2	82.7	99.0	99.0	85.9	89.6
ESCALADE	88.4	87.0	99.0	99.0	84.9	89.5
FASTLANE (BY-TF-169)	92.2	83.8	98.7	99.0	83.7	89.5
ATF1768	90.9	84.7	99.0	99.0	85.1	89.5
SPYDER 2LS (ZRC1)	92.3	85.0	99.0	99.0	81.9	89.5
PRO GOLD	91.9	83.1	98.7	99.0	85.0	89.5
BRAVO 2	88.5	86.3	98.7	99.0	85.1	89.5
GLX REVIVE (PST-5GLBS)	88.3	85.8	99.0	99.0	85.0	89.4
GALACTIC (SESCR1)	92.1	83.4	98.0	99.0	84.0	89.4
OG-WALK	88.5	87.6	98.3	99.0	83.6	89.3
STEALTH (PPG-TF 238)	91.9	85.1	99.0	99.0	82.5	89.3
FAYETTE	91.9	90.6	99.0	99.0	77.2	89.3
SERENADE (PPG-TF 320)	90.3	82.2	99.0	99.0	86.3	89.2
RAPTOR LS (PPG-TF 336)	93.7	80.1	98.7	99.0	85.5	89.2
BENTLEY (DLFPS-321/3679)	88.9	85.3	99.0	99.0	84.3	89.2

TABLE 40.  
(CONT'D)

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IA1	OK1	ON1	PA2	TN1	MEAN
EXPANSE (PPG-TF 262)	92.9	80.3	98.7	99.0	86.9	89.2
5LSS	92.3	79.4	98.7	99.0	86.0	89.2
RC4	93.9	78.5	99.0	99.0	85.3	89.2
ROVER (PPG-TF 306)	92.5	83.0	99.0	99.0	83.0	89.2
BONFIRE (JS DTT)	92.9	79.9	98.3	99.0	86.1	89.1
TITANIUM G-LS (PPG-TF 255)	90.9	83.1	99.0	99.0	84.0	89.1
PPG-TF 337	91.8	81.4	98.7	99.0	85.6	89.1
FALCON SUPREME (RH1)	91.6	82.3	99.0	99.0	83.4	89.1
HOUNDOG NINE (DLFPS-321/3702)	90.1	83.9	98.3	99.0	83.7	89.0
TRIAD (PPG-TF 323)	90.3	82.9	98.7	99.0	84.7	89.0
KENTUCKY-31	91.6	85.5	98.0	97.0	80.9	88.9
ORIOLE (PST-5BYOB)	88.5	88.6	99.0	99.0	80.2	88.9
DLFPS-321/3706	91.6	81.3	98.0	98.7	85.6	88.8
K18-WB1	94.7	78.3	97.5	99.0	85.3	88.8
DEGAS (LTP-TF-111)	94.4	77.6	98.7	99.0	85.4	88.8
BATTLE HAWK (NAI-ROS4)	91.5	82.9	99.0	99.0	82.5	88.8
PADRE 2	90.6	84.3	99.0	99.0	82.1	88.8
TANK (PPG-TF 338)	89.4	83.1	99.0	99.0	84.6	88.7
RS1	91.3	82.4	97.9	99.0	84.7	88.7
AST8118LM	87.8	85.0	98.7	99.0	84.5	88.7
FIREHAWK SLT	92.7	79.3	99.0	99.0	85.5	88.7
NAI-ST5	92.9	81.9	99.0	99.0	81.8	88.7
GRANDE 3	92.0	82.7	98.7	99.0	82.8	88.7
TITAN GLX (TF445)	89.9	82.1	99.0	99.0	84.3	88.7
SYMPHONY (PPG-TF 305)	93.5	83.1	99.0	99.0	79.9	88.7
BAR-FA8230	89.4	82.0	99.0	99.0	84.5	88.6
RAPTOR III	91.2	79.5	99.0	99.0	84.6	88.6
DLFPS-321/3694	90.7	77.4	98.3	99.0	88.6	88.5
DLFPS-321/3708	88.2	80.3	98.7	99.0	87.1	88.4
NATURALLY GREEN	87.4	84.4	98.7	99.0	85.3	88.4
DLFPS-321/3703	89.5	81.5	99.0	99.0	84.7	88.4
PALOMAR	87.1	88.1	99.0	99.0	80.3	88.4
PROVIDENCE (GO-RH20)	90.3	82.7	99.0	99.0	82.5	88.4
NT-3	92.6	79.7	99.0	99.0	84.7	88.3
OKEEFE (LTP-TF-122)	92.3	80.1	99.0	99.0	83.0	88.3
FINELAWN SUPREME (RH3)	92.5	80.7	99.0	99.0	82.3	88.3
TEACHER (PPG-TF 313)	93.6	77.1	98.7	99.0	84.5	88.2
BULLSEYE LTZ	89.7	79.0	99.0	99.0	84.5	88.2
DLFPS-TF/3553	91.1	79.6	98.7	99.0	85.1	88.2
JT 233	89.8	82.3	99.0	99.0	81.3	88.2
TITAN MAX (TF456)	92.2	80.5	99.0	99.0	80.9	88.2
TYCOON (COL-TF-148)	92.9	76.6	99.0	99.0	84.6	88.2
PST-5DZM	89.9	82.5	99.0	99.0	81.2	88.1
ENDGAME (3N1)	91.5	80.3	99.0	99.0	82.2	88.1
XANADU (JT 268 )	90.5	83.9	99.0	99.0	80.9	88.1
PST-5TRN	90.5	84.1	98.7	99.0	78.9	88.1
AST8218LM	87.4	87.3	91.3	99.0	83.9	88.0

TABLE 40.  
(CONT'D)

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IA1	OK1	ON1	PA2	TN1	MEAN
JT 517	88.5	80.2	98.3	99.0	84.9	88.0
EXTRAVAGANZA (PST-5MCMO)	89.9	80.8	98.3	99.0	82.8	88.0
DLFPS-321/3707	90.0	78.9	99.0	99.0	84.1	87.9
RDC	93.6	77.2	99.0	99.0	83.4	87.9
BARNOBLE (BAR 9FE MAS)	88.5	81.9	98.7	99.0	84.2	87.9
PST-5GQ	91.0	78.5	98.7	99.0	85.1	87.9
HELLCAT GLR (PST-5E6)	91.3	79.8	98.7	99.0	82.1	87.9
SOUTHSIDE (PPG-TF 267)	90.3	80.4	98.7	99.0	82.7	87.8
TANGO	87.5	78.7	99.0	99.0	87.9	87.8
LBF	86.5	84.3	98.3	99.0	82.5	87.8
GEM (PPG-TF 316)	93.0	81.2	99.0	99.0	78.4	87.8
HEMI	89.9	79.5	99.0	99.0	84.6	87.7
PST-5MINK	89.1	84.3	99.0	99.0	79.2	87.7
FIERCE (K18-RS6)	91.8	73.9	99.0	99.0	85.6	87.7
TALLADEGA II (NAI-3N2)	90.5	79.2	99.0	99.0	83.8	87.6
TOUGH (NAI-TUE)	90.3	81.5	99.0	99.0	80.1	87.6
SE5STAR	90.1	81.7	99.0	99.0	80.5	87.5
BANDIT	88.1	81.8	99.0	99.0	82.7	87.5
RHF	94.2	74.3	99.0	99.0	84.5	87.5
BIRMINGHAM	86.5	83.5	98.7	99.0	81.3	87.4
BULLSEYE	90.2	80.6	98.3	99.0	82.3	87.3
BAR FA 8228	87.9	82.1	99.0	99.0	82.1	87.3
ESTRENA	86.9	82.9	98.7	99.0	81.7	87.3
RHL2	92.4	74.5	99.0	99.0	85.6	87.2
K18-NSE	94.9	71.7	95.4	99.0	85.3	87.1
RAD-TF105	89.3	76.2	99.0	99.0	85.5	87.1
NAI-FQZ-17	87.1	82.1	99.0	99.0	81.2	87.0
PST-5DC24	87.1	81.5	96.7	99.0	83.3	87.0
LAFAYETTE (GO-AOMK)	86.1	81.3	98.7	99.0	81.3	86.7
SETFM3	86.1	79.3	98.7	99.0	81.2	86.4
GRAND PRIX (FC15-01P)	88.8	75.2	99.0	99.0	82.5	86.3
PPG-TF 312	94.1	73.9	96.4	99.0	82.6	86.3
COPIOUS TF	89.4	73.5	99.0	99.0	83.1	85.8
SETFM2	81.8	81.6	97.2	99.0	81.9	85.7
A-TF31	88.6	72.1	98.3	99.0	82.9	85.0
FAIRFIELD (SETF104)	88.1	72.5	98.7	99.0	80.2	84.5
RAD-TF131	83.6	57.6	98.0	99.0	81.4	79.3
RAD-TF 115 (TURBO SS)	85.7	43.3	98.3	99.0	83.1	76.9
LSD VALUE	8.6	20.6	3.7	0.3	10.3	6.6
C.V. (%)	6.1	16.1	2.3	0.2	8.2	9.2

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

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



TABLE 41.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

## PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1	NJ2	OK1	ON1	PA2	TN1	VA1	MEAN
PROVIDENCE (GO-RH20)	94.7	99.0	98.7	99.0	99.0	92.8	99.0	96.6
VALSETZ (PPG-TF 257)	93.7	99.0	99.0	99.0	98.6	93.0	99.0	96.5
SPYDER 2LS (ZRC1)	96.1	95.0	97.5	99.0	98.9	92.1	96.0	96.2
BATTLE HAWK (NAI-ROS4)	95.1	99.0	98.3	99.0	98.9	91.7	99.0	96.2
PPG-TF 249	94.0	96.3	98.8	99.0	98.9	92.8	96.0	96.2
ZION (BAR TF 134)	93.7	99.0	97.1	99.0	98.9	93.0	99.0	96.1
3B2	92.8	99.0	99.0	99.0	99.0	92.2	96.0	96.0
DRAGSTER	92.9	97.7	98.3	99.0	98.9	93.1	97.7	96.0
BLADERUNNER 3 (DLFPS-321/3701)	93.6	97.7	98.8	98.3	98.9	92.5	99.0	96.0
HELLCAT GLR (PST-5E6)	94.8	99.0	97.2	99.0	98.9	91.9	97.7	96.0
TITAN GLX (TF445)	93.9	97.7	98.8	99.0	99.0	91.4	99.0	96.0
HEMI	93.2	97.7	97.3	99.0	98.9	93.1	99.0	95.9
ROWDIER (DLFPS-321/3699)	93.7	96.3	99.0	99.0	98.9	91.5	99.0	95.9
FIREHAWK SLT	93.6	99.0	97.1	99.0	99.0	92.1	99.0	95.9
TAR HEEL III (PST-5THM)	92.5	99.0	98.7	99.0	98.9	92.7	97.7	95.9
NAI-ST5	93.1	99.0	98.3	99.0	99.0	91.9	96.3	95.8
ESCALADE	91.5	96.0	99.0	99.0	99.0	92.9	97.7	95.8
SR 8700 (TMT1)	93.4	97.7	97.4	99.0	98.9	91.9	99.0	95.8
RAPTOR LS (PPG-TF 336)	94.3	96.3	95.6	99.0	99.0	92.7	97.7	95.8
PADRE 2	93.3	97.7	97.1	99.0	98.8	92.4	99.0	95.8
PPG-TF 318	91.3	97.7	98.3	99.0	98.9	93.0	99.0	95.7
DAYBREAK (AH2)	92.6	99.0	96.7	99.0	98.8	92.9	95.0	95.7
FALCON SUPREME (RH1)	93.7	97.7	95.6	99.0	98.9	92.7	96.0	95.6
TITANIUM G-LS (PPG-TF 255)	93.9	97.7	95.9	99.0	98.9	92.6	96.0	95.6
GLX REVIVE (PST-5GLBS)	92.4	99.0	97.9	99.0	98.8	92.3	97.7	95.6
ORIOLE (PST-5BYOB)	92.9	99.0	99.0	99.0	98.8	90.3	99.0	95.6
PALOMAR	90.8	97.7	99.0	99.0	98.8	93.1	96.0	95.6
CAPITAN (DLFPS-321/3705)	93.8	99.0	96.0	98.7	98.9	92.7	97.7	95.6
HOUNDOG NINE (DLFPS-321/3702)	91.9	99.0	97.8	99.0	98.8	92.2	99.0	95.6
RC4	93.2	97.7	96.0	99.0	98.8	92.6	96.0	95.5
BULLSEYE LTZ	92.6	97.7	97.8	99.0	99.0	91.7	99.0	95.5
EXTRAVAGANZA (PST-5MCMO)	91.5	99.0	98.3	99.0	98.8	92.5	96.0	95.5
FAYETTE	92.6	96.3	98.7	99.0	98.8	91.5	96.0	95.5
TALLADEGA II (NAI-3N2)	92.7	99.0	96.8	99.0	98.9	92.3	94.7	95.5
TANK (PPG-TF 338)	91.9	96.3	99.0	99.0	98.7	92.1	93.0	95.5
PPG-TF 312	93.9	99.0	93.9	99.0	98.8	91.6	99.0	95.4
SOUTHSIDE (PPG-TF 267)	94.1	99.0	95.9	99.0	98.9	90.7	97.7	95.4
PST-5TRN	93.0	99.0	97.9	99.0	98.7	91.1	96.0	95.4
SERENADE (PPG-TF 320)	91.9	97.7	98.3	99.0	99.0	90.8	99.0	95.4
FIRENZA II (PPG-TF 244)	92.7	97.7	97.9	99.0	98.8	90.8	99.0	95.4
ATF1768	91.9	96.3	97.2	99.0	98.8	92.4	99.0	95.3
MONUMENT (PST-5SQB)	92.1	97.7	97.9	99.0	98.8	92.9	92.7	95.3
NT-3	92.0	99.0	95.7	99.0	98.9	92.9	99.0	95.3
PPG-TF 337	93.5	97.7	97.1	99.0	97.9	89.9	99.0	95.3
STEALTH (PPG-TF 238)	92.1	99.0	97.2	99.0	99.0	91.7	97.7	95.3
TOPSHELF (BGR-TF3)	90.9	97.7	99.0	99.0	98.7	92.5	96.0	95.3
OG-WALK	91.4	99.0	97.9	99.0	98.8	91.5	97.7	95.3

TABLE 41.  
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1	NJ2	OK1	ON1	PA2	TN1	VA1	MEAN
DEGAS (LTP-TF-111)	92.1	96.3	97.1	99.0	98.8	91.7	99.0	95.2
RS1	91.3	99.0	97.0	99.0	98.7	92.2	99.0	95.2
DLFPS-321/3693	93.1	95.0	97.1	99.0	99.0	91.1	97.7	95.2
ESTRENA	93.2	97.7	96.3	99.0	98.8	91.7	93.0	95.2
RDC	92.4	97.7	97.1	99.0	98.9	91.7	96.3	95.2
PST-5GQ	92.5	99.0	97.5	99.0	98.6	90.8	99.0	95.2
TEACHER (PPG-TF 313)	90.8	99.0	94.1	99.0	99.0	93.4	97.7	95.2
GLX ACED (PST-5DART)	91.9	97.7	98.7	99.0	98.6	90.8	94.7	95.2
GALLARDO (DLFPS-TF/3550)	92.5	97.7	98.3	99.0	98.7	90.5	99.0	95.2
RACEWAY (DLFPS-321/3696)	91.8	99.0	97.5	99.0	98.7	91.5	96.0	95.2
BULLSEYE	92.1	99.0	97.5	99.0	99.0	91.3	93.0	95.2
LIFEGUARD	93.7	97.7	94.3	99.0	98.6	92.3	99.0	95.2
PRO GOLD	92.1	96.3	96.6	99.0	99.0	92.7	96.0	95.1
GRANDE 3	93.5	97.7	97.2	99.0	98.9	89.3	99.0	95.1
K18-WB1	94.0	99.0	93.9	99.0	98.9	91.7	95.0	95.1
EXPANSE (PPG-TF 262)	92.2	97.7	95.5	99.0	98.9	92.1	94.7	95.1
GRAND PRIX (FC15-01P)	92.7	99.0	95.4	99.0	98.7	92.3	94.3	95.1
KENTUCKY-31	95.4	99.0	93.4	99.0	98.8	92.3	90.0	95.1
RAPTOR III	92.0	97.7	96.0	99.0	98.9	91.6	96.3	95.0
ENDGAME (3N1)	91.7	99.0	96.7	99.0	98.8	90.9	99.0	95.0
BONFIRE (JS DTT)	93.5	99.0	98.3	99.0	98.7	89.0	93.0	95.0
KIZZLE (K18-ROE)	89.9	97.7	98.3	99.0	98.7	91.3	97.7	95.0
DLFPS-321/3706	90.6	96.3	95.4	99.0	99.0	92.8	99.0	95.0
AST8118LM	90.3	99.0	97.1	99.0	98.8	92.3	96.0	94.9
MOONDANCE GLX	93.4	99.0	98.3	99.0	98.8	88.6	99.0	94.9
FASTLANE (BY-TF-169)	88.1	99.0	99.0	99.0	98.8	92.5	99.0	94.9
TITAN MAX (TF456)	93.6	97.7	96.3	99.0	98.8	90.1	99.0	94.9
K18-NSE	95.6	96.3	92.8	99.0	99.0	90.4	94.3	94.9
GEM (PPG-TF 316)	92.5	97.7	95.8	99.0	98.9	91.4	94.7	94.9
RAD-TF105	91.7	99.0	93.7	99.0	98.9	93.2	96.0	94.9
JT 233	92.1	99.0	94.5	99.0	98.9	92.3	93.0	94.9
OKEEFE (LTP-TF-122)	92.9	97.7	96.3	99.0	98.6	90.6	94.3	94.9
AST8218LM	92.3	97.7	95.4	99.0	98.4	91.7	94.3	94.9
GRO-PRO (SE53D2)	91.7	97.7	97.6	99.0	98.8	90.9	96.0	94.9
FIERCE (K18-RS6)	92.0	97.7	93.2	99.0	98.9	92.5	94.7	94.9
TRIAD (PPG-TF 323)	91.9	97.7	95.3	99.0	98.9	91.7	97.7	94.8
SYMPHONY (PPG-TF 305)	93.3	96.3	98.8	99.0	99.0	89.1	97.7	94.8
DYNAMITE G-LS (PPG-TF 254)	93.1	99.0	97.1	99.0	98.6	89.4	97.7	94.8
DLFPS-321/3708	86.8	97.7	96.9	99.0	98.8	94.5	99.0	94.8
JT 517	91.7	96.0	95.1	99.0	99.0	92.1	99.0	94.7
AVENGER III (PPG-TF 308)	90.1	97.7	96.3	98.7	98.8	92.4	99.0	94.7
TYCOON (COL-TF-148)	92.7	99.0	94.4	99.0	98.6	91.5	92.7	94.7
DLFPS-TF/3553	90.7	96.3	95.6	99.0	98.8	92.3	97.7	94.7
SETFM3	91.4	97.7	95.2	99.0	98.9	91.2	97.7	94.7
DLFPS-321/3703	90.0	99.0	96.8	99.0	99.0	91.1	99.0	94.7
PST-5DC24	91.1	97.7	96.8	99.0	98.8	90.3	97.7	94.7
TOUGH (NAI-TUE)	91.7	99.0	93.5	99.0	98.7	92.7	97.7	94.7

TABLE 41.  
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1	NJ2	OK1	ON1	PA2	TN1	VA1	MEAN
GALACTIC (SESCR1)	91.7	96.3	95.4	99.0	98.6	91.2	99.0	94.6
LAFAYETTE (GO-AOMK)	88.2	99.0	97.1	99.0	98.7	93.1	96.0	94.6
PST-5MINK	91.3	96.3	95.5	99.0	99.0	91.4	96.0	94.5
FINELAWN SUPREME (RH3)	91.6	96.3	93.5	99.0	98.9	92.3	94.7	94.5
BARNOBLE (BAR 9FE MAS)	91.5	96.3	93.5	99.0	98.7	92.5	97.7	94.5
5LSS	94.4	99.0	90.1	99.0	97.9	92.2	99.0	94.5
BANDIT	91.5	96.3	97.0	99.0	99.0	89.4	96.0	94.5
BIRMINGHAM	89.6	96.0	97.8	99.0	98.7	90.4	96.0	94.5
DLFPS-321/3694	93.3	97.7	95.1	99.0	98.8	89.3	96.0	94.5
PPG-TF 231	92.3	97.7	93.6	99.0	98.6	90.5	99.0	94.5
NAI-FQZ-17	89.9	99.0	96.3	99.0	98.8	90.7	93.0	94.4
PST-5DZM	91.7	97.7	97.3	99.0	98.9	89.1	96.0	94.4
TANGO	90.9	99.0	92.3	99.0	98.9	92.8	97.7	94.4
XANADU (JT 268 )	89.9	99.0	98.3	99.0	98.9	90.3	91.3	94.4
RHL2	92.2	96.3	90.8	99.0	98.9	92.3	97.7	94.4
DLFPS-321/3695	91.8	96.3	96.0	99.0	98.4	89.9	97.7	94.3
FIRECRACKER G-LS (PPG-TF 315)	91.5	97.7	95.6	99.0	98.8	89.3	96.0	94.2
LBF	90.1	94.7	97.0	99.0	98.9	90.8	94.7	94.2
BAR-FA8230	92.5	97.7	96.8	99.0	98.9	87.3	97.7	94.2
ATF2116	89.9	96.3	97.5	99.0	98.9	90.4	96.0	94.2
BRAVO 2	91.2	95.0	96.5	98.7	98.7	89.2	99.0	94.2
BENTLEY (DLFPS-321/3679)	89.4	96.0	99.0	99.0	99.0	88.9	99.0	94.1
NATURALLY GREEN	90.7	99.0	92.3	99.0	99.0	91.9	99.0	94.1
CLASH (AH1)	96.7	99.0	89.1	98.3	98.9	90.1	89.7	94.0
ROVER (PPG-TF 306)	89.5	97.7	93.5	99.0	98.8	91.7	96.0	94.0
SE5STAR	91.1	97.7	95.1	99.0	98.9	90.3	96.0	94.0
ESSENTIAL 2 (DLFPS-TF/3552)	90.7	97.7	91.6	98.7	98.4	92.5	99.0	93.9
PARAMOUNT	92.0	99.0	90.9	99.0	98.9	90.7	97.7	93.8
FAIRFIELD (SETF104)	91.6	97.7	92.4	99.0	98.8	90.2	97.7	93.8
TD2	89.5	96.3	94.8	99.0	98.8	88.8	99.0	93.7
SETFM2	90.4	96.3	96.3	99.0	99.0	88.9	94.7	93.7
RHF	91.9	97.7	92.5	99.0	98.8	92.9	64.0	93.5
RAD-TF131	90.1	96.3	89.2	99.0	98.8	91.5	96.0	93.3
A-TF31	89.9	99.0	89.1	99.0	98.8	91.3	97.7	93.2
BAR FA 8228	90.3	99.0	96.7	99.0	99.0	85.4	99.0	93.1
COPIOUS TF	90.0	94.7	87.8	99.0	98.7	92.6	97.7	93.0
DLFPS-321/3707	89.9	96.3	94.3	99.0	98.7	86.4	96.0	92.9
RAD-TF 115 (TURBO SS)	88.8	96.0	76.0	99.0	97.9	92.5	96.0	91.1
LSD VALUE	6.9	3.3	11.4	0.3	0.8	8.5	10.5	3.7
C.V. (%)	5.0	2.1	7.4	0.2	0.5	5.8	6.8	5.1

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 42.

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	MS1	OK1	MEAN
GRANDE 3	6.7	6.2	6.5
NAI-ST5	6.0	6.3	6.1
A-TF31	6.0	6.2	6.1
BANDIT	6.0	6.2	6.1
BAR-FA8230	6.0	6.2	6.1
BATTLE HAWK (NAI-ROS4)	6.0	6.2	6.1
BENTLEY (DLFPS-321/3679)	6.0	6.2	6.1
BLADERUNNER 3 (DLFPS-321/3701)	6.0	6.2	6.1
BULLSEYE LTZ	6.0	6.2	6.1
DEGAS (LTP-TF-111)	6.0	6.2	6.1
DLFPS-321/3703	6.0	6.2	6.1
DLFPS-TF/3553	6.0	6.2	6.1
FASTLANE (BY-TF-169)	6.0	6.2	6.1
FIRECRACKER G-LS (PPG-TF 315)	6.0	6.2	6.1
FIRENZA II (PPG-TF 244)	6.0	6.2	6.1
GRAND PRIX (FC15-01P)	6.0	6.2	6.1
HOUNDOG NINE (DLFPS-321/3702)	6.0	6.2	6.1
K18-WB1	6.0	6.2	6.1
PPG-TF 249	6.0	6.2	6.1
PPG-TF 318	6.0	6.2	6.1
RACEWAY (DLFPS-321/3696)	6.0	6.2	6.1
ROWDIER (DLFPS-321/3699)	6.0	6.2	6.1
SOUTHSIDE (PPG-TF 267)	6.0	6.2	6.1
XANADU (JT 268 )	6.0	6.2	6.1
DLFPS-321/3694	6.0	6.2	6.1
FIREHAWK SLT	6.0	6.1	6.0
RAPTOR LS (PPG-TF 336)	6.0	6.1	6.0
AVENGER III (PPG-TF 308)	6.0	6.1	6.0
BARNOBLE (BAR 9FE MAS)	6.0	6.1	6.0
BONFIRE (JS DTT)	6.0	6.1	6.0
BULLSEYE	6.0	6.1	6.0
DAYBREAK (AH2)	6.0	6.1	6.0
DRAGSTER	6.0	6.1	6.0
ESSENTIAL 2 (DLFPS-TF/3552)	6.0	6.1	6.0
EXPANSE (PPG-TF 262)	6.0	6.1	6.0
FALCON SUPREME (RH1)	6.0	6.1	6.0
GALACTIC (SESCR1)	6.0	6.1	6.0
GALLARDO (DLFPS-TF/3550)	6.0	6.1	6.0
GLX ACED (PST-5DART)	6.0	6.1	6.0
GLX REVIVE (PST-5GLBS)	6.0	6.1	6.0
JT 517	6.0	6.1	6.0
KIZZLE (K18-ROE)	6.0	6.1	6.0
MONUMENT (PST-5SQB)	6.0	6.1	6.0
OKEEFE (LTP-TF-122)	6.0	6.1	6.0
ORIOLE (PST-5BYOB)	6.0	6.1	6.0
PADRE 2	6.0	6.1	6.0
PPG-TF 231	6.0	6.1	6.0

TABLE 42.  
(CONT'D)

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	MS1	OK1	MEAN
PPG-TF 337	6.0	6.1	6.0
PST-5TRN	6.0	6.1	6.0
RC4	6.0	6.1	6.0
ROVER (PPG-TF 306)	6.0	6.1	6.0
SETFM3	6.0	6.1	6.0
SPYDER 2LS (ZRC1)	6.0	6.1	6.0
TITAN GLX (TF445)	6.0	6.1	6.0
TITAN MAX (TF456)	6.0	6.1	6.0
VALSETZ (PPG-TF 257)	6.0	6.1	6.0
ESCALADE	6.0	6.0	6.0
FAIRFIELD (SETF104)	6.0	6.0	6.0
FAYETTE	6.0	6.0	6.0
PALOMAR	6.0	6.0	6.0
PPG-TF 312	6.0	6.0	6.0
PST-5MINK	6.0	6.0	6.0
SERENADE (PPG-TF 320)	6.0	6.0	6.0
STEALTH (PPG-TF 238)	6.0	6.0	6.0
TALLADEGA II (NAI-3N2)	6.0	6.0	6.0
TANK (PPG-TF 338)	6.0	6.0	6.0
TEACHER (PPG-TF 313)	6.0	6.0	6.0
3B2	6.0	6.0	6.0
CAPITAN (DLFPS-321/3705)	6.0	6.0	6.0
CLASH (AH1)	6.0	6.0	6.0
DLFPS-321/3693	6.0	6.0	6.0
DLFPS-321/3695	6.0	6.0	6.0
DLFPS-321/3706	6.0	6.0	6.0
DLFPS-321/3707	6.0	6.0	6.0
EXTRAVAGANZA (PST-5MCMO)	6.0	6.0	6.0
LIFEGUARD	6.0	6.0	6.0
PARAMOUNT	6.0	6.0	6.0
RS1	6.0	6.0	6.0
SR 8700 (TMT1)	6.0	6.0	6.0
TYCOON (COL-TF-148)	6.0	6.0	6.0
ENDGAME (3N1)	5.9	6.0	6.0
PST-5GQ	6.0	5.9	6.0
RHF	6.0	5.9	6.0
RHL2	6.0	5.9	6.0
TAR HEEL III (PST-5THM)	6.0	5.9	6.0
TD2	6.0	5.9	6.0
TRIAD (PPG-TF 323)	6.0	5.9	6.0
ZION (BAR TF 134)	6.0	5.9	6.0
HELLCAT GLR (PST-5E6)	6.0	5.8	5.9
MOONDANCE GLX	6.0	5.8	5.9
PRO GOLD	6.0	5.8	5.9
NATURALLY GREEN	6.0	5.8	5.9
ESTRENA	6.0	5.7	5.9
LBF	5.7	6.4	5.9

TABLE 42.  
(CONT'D)

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	MS1	OK1	MEAN
GRO-PRO (SE53D2)	6.0	5.7	5.9
ATF1768	5.7	6.3	5.9
TITANIUM G-LS (PPG-TF 255)	5.7	6.3	5.9
RAPTOR III	6.0	5.6	5.9
ATF2116	5.7	6.2	5.8
BIRMINGHAM	5.7	6.2	5.8
GEM (PPG-TF 316)	5.7	6.2	5.8
JT 233	5.7	6.2	5.8
PROVIDENCE (GO-RH20)	5.7	6.2	5.8
K18-NSE	5.7	6.0	5.8
SYMPHONY (PPG-TF 305)	5.7	6.1	5.8
TOPSHELF (BGR-TF3)	5.7	6.1	5.8
COPIOUS TF	5.7	6.1	5.8
DYNAMITE G-LS (PPG-TF 254)	5.7	6.1	5.8
AST8118LM	5.7	6.0	5.8
AST8218LM	5.7	6.0	5.8
SETFM2	5.7	6.0	5.8
TANGO	5.7	6.0	5.8
PST-5DC24	5.7	5.9	5.7
BAR FA 8228	5.7	5.9	5.7
FIERCE (K18-RS6)	5.7	5.9	5.7
OG-WALK	5.7	5.9	5.7
5LSS	5.7	5.8	5.7
SE5STAR	5.7	5.8	5.7
HEMI	5.7	5.6	5.6
NAI-FQZ-17	5.3	6.2	5.6
NT-3	5.3	6.2	5.6
TOUGH (NAI-TUE)	5.3	6.2	5.6
FINELAWN SUPREME (RH3)	5.3	6.1	5.6
RAD-TF105	5.3	6.0	5.5
LAFAYETTE (GO-AOMK)	5.3	5.9	5.5
PST-5DZM	5.3	5.9	5.5
RDC	5.3	5.9	5.5
RAD-TF 115 (TURBO SS)	5.3	5.8	5.5
DLFPS-321/3708	5.0	6.2	5.4
BRAVO 2	5.0	6.1	5.3
RAD-TF131	5.0	5.8	5.2
KENTUCKY-31	5.7	4.0	5.2
LSD VALUE	0.5	0.7	0.4
C.V. (%)	5.3	6.9	5.8

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 43.

DROUGHT TOLERANCE (WILTING) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

## DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	IN1	NAME	IN1	NAME	IN1
BATTLE HAWK (NAI-ROS4)	7.3	GLX ACED (PST-5DART)	6.3	RACEWAY (DLFPS-321/3696)	6.0
RC4	7.3	GRANDE 3	6.3	RAD-TF105	6.0
RHL2	7.3	JT 233	6.3	RAD-TF131	6.0
STEALTH (PPG-TF 238)	7.3	MONUMENT (PST-5SQB)	6.3	RAPTOR III	6.0
5LSS	7.0	PADRE 2	6.3	SETFM2	6.0
BONFIRE (JS DTT)	7.0	PARAMOUNT	6.3	SOUTHSIDE (PPG-TF 267)	6.0
CAPITAN (DLFPS-321/3705)	7.0	PPG-TF 231	6.3	SR 8700 (TMT1)	6.0
FINELAWN SUPREME (RH3)	7.0	PST-5DC24	6.3	TANGO	6.0
PPG-TF 312	7.0	RAD-TF 115 (TURBO SS)	6.3	TAR HEEL III (PST-5THM)	6.0
PROVIDENCE (GO-RH20)	7.0	RHF	6.3	TITAN MAX (TF456)	6.0
ROVER (PPG-TF 306)	7.0	RS1	6.3	TITANIUM G-LS (PPG-TF 255)	6.0
ROWDIER (DLFPS-321/3699)	7.0	SE5STAR	6.3	TOPSHELF (BGR-TF3)	6.0
SERENADE (PPG-TF 320)	7.0	TD2	6.3	TRIAD (PPG-TF 323)	6.0
SETFM3	7.0	TITAN GLX (TF445)	6.3	BANDIT	5.7
SPYDER 2LS (ZRC1)	7.0	TOUGH (NAI-TUE)	6.3	BARNOBLE (BAR 9FE MAS)	5.7
TALLADEGA II (NAI-3N2)	7.0	VALSETZ (PPG-TF 257)	6.3	BENTLEY (DLFPS-321/3679)	5.7
AST8118LM	6.7	ATF2116	6.0	BIRMINGHAM	5.7
AVENGER III (PPG-TF 308)	6.7	BAR FA 8228	6.0	BLADERUNNER 3 (DLFPS-321/3701)	5.7
DLFPS-321/3693	6.7	BULLSEYE LTZ	6.0	BRAVO 2	5.7
ESCALADE	6.7	CLASH (AH1)	6.0	DLFPS-321/3694	5.7
FIRECRACKER G-LS (PPG-TF 315)	6.7	DAYBREAK (AH2)	6.0	DLFPS-TF/3553	5.7
GEM (PPG-TF 316)	6.7	DEGAS (LTP-TF-111)	6.0	ESTRENA	5.7
GLX REVIVE (PST-5GLBS)	6.7	DLFPS-321/3695	6.0	FALCON SUPREME (RH1)	5.7
GRO-PRO (SE53D2)	6.7	DLFPS-321/3706	6.0	FIRENZA II (PPG-TF 244)	5.7
HEMI	6.7	DLFPS-321/3707	6.0	LIFEGUARD	5.7
HOUNDG NINE (DLFPS-321/3702)	6.7	DRAGSTER	6.0	NAI-FQZ-17	5.7
LBF	6.7	DYNAMITE G-LS (PPG-TF 254)	6.0	ORIOLE (PST-5BYOB)	5.7
MOONDANCE GLX	6.7	ENDGAME (3N1)	6.0	PPG-TF 318	5.7
NT-3	6.7	ESSENTIAL 2 (DLFPS-TF/3552)	6.0	PST-5MINK	5.7
OKEEFE (LTP-TF-122)	6.7	EXPANSE (PPG-TF 262)	6.0	SYMPHONY (PPG-TF 305)	5.7
PPG-TF 249	6.7	EXTRAVAGANZA (PST-5MCMO)	6.0	TYCOON (COL-TF-148)	5.7
PRO GOLD	6.7	FAIRFIELD (SETF104)	6.0	ZION (BAR TF 134)	5.7
PST-5TRN	6.7	FAYETTE	6.0	A-TF31	5.3
RAPTOR LS (PPG-TF 336)	6.7	FIREHAWK SLT	6.0	AST8218LM	5.3
RDC	6.7	GALLARDO (DLFPS-TF/3550)	6.0	DLFPS-321/3703	5.3
TANK (PPG-TF 338)	6.7	GRAND PRIX (FC15-01P)	6.0	DLFPS-321/3708	5.3
TEACHER (PPG-TF 313)	6.7	HELLCAT GLR (PST-5E6)	6.0	LAFAYETTE (GO-AOMK)	5.3
XANADU (JT 268 )	6.7	JT 517	6.0	NAI-ST5	5.3
3B2	6.3	K18-WB1	6.0	COPIOUS TF	5.0
ATF1768	6.3	KENTUCKY-31	6.0	K18-NSE	5.0
BAR-FA8230	6.3	KIZZLE (K18-ROE)	6.0	PALOMAR	5.0
BULLSEYE	6.3	NATURALLY GREEN	6.0	PPG-TF 337	5.0
FASTLANE (BY-TF-169)	6.3	OG-WALK	6.0		
FERCE (K18-RS6)	6.3	PST-5DZM	6.0	LSD VALUE	1.4
GALACTIC (SESCR1)	6.3	PST-5GQ	6.0	C.V. (%)	14.3

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

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

TABLE 44.

TYPHULA BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/  
2021 DATA

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

NAME	PA2	NAME	PA2	NAME	PA2
A-TF31	8.7	NATURALLY GREEN	4.7	TANGO	3.3
DLFPS-321/3694	7.3	PPG-TF 312	4.7	VALSETZ (PPG-TF 257)	3.3
PST-5DZM	7.3	TRIAD (PPG-TF 323)	4.7	BARNOBLE (BAR 9FE MAS)	3.0
AST8118LM	7.0	BATTLE HAWK (NAI-ROS4)	4.3	ESSENTIAL 2 (DLFPS-TF/3552)	3.0
JT 233	7.0	BLADERUNNER 3 (DLFPS-321/3701)	4.3	GALACTIC (SESCR1)	3.0
NT-3	7.0	DLFPS-321/3693	4.3	GLX ACED (PST-5DART)	3.0
PARAMOUNT	7.0	PALOMAR	4.3	LBF	3.0
RAD-TF 115 (TURBO SS)	7.0	PST-5GQ	4.3	NAI-ST5	3.0
AST8218LM	6.7	RAPTOR III	4.3	OG-WALK	3.0
BULLSEYE LTZ	6.7	SE5STAR	4.3	PPG-TF 337	3.0
SETFM2	6.7	SERENADE (PPG-TF 320)	4.3	RHF	3.0
PADRE 2	6.3	SR 8700 (TMT1)	4.3	RS1	3.0
RAD-TF131	6.3	TITANIUM G-LS (PPG-TF 255)	4.3	TANK (PPG-TF 338)	3.0
COPIOUS TF	6.0	TOPSHELF (BGR-TF3)	4.3	BONFIRE (JS DTT)	2.7
HEMI	6.0	XANADU (JT 268 )	4.3	DYNAMITE G-LS (PPG-TF 254)	2.7
MOONDANCE GLX	6.0	BULLSEYE	4.0	FIERCE (K18-RS6)	2.7
PRO GOLD	6.0	DLFPS-321/3703	4.0	FIREHAWK SLT	2.7
RC4	6.0	FASTLANE (BY-TF-169)	4.0	RHL2	2.7
TYCOON (COL-TF-148)	6.0	FAYETTE	4.0	SOUTHSIDE (PPG-TF 267)	2.7
ATF2116	5.7	HOUNDG NINE (DLFPS-321/3702)	4.0	BIRMINGHAM	2.3
BANDIT	5.7	LIFEGUARD	4.0	CLASH (AH1)	2.3
DEGAS (LTP-TF-111)	5.7	PST-5DC24	4.0	DLFPS-321/3706	2.3
KIZZLE (K18-ROE)	5.7	PST-5TRN	4.0	EXPANSE (PPG-TF 262)	2.3
LAFAYETTE (GO-AOMK)	5.7	SYMPHONY (PPG-TF 305)	4.0	NAI-FQZ-17	2.3
MONUMENT (PST-5SQB)	5.7	TD2	4.0	RAD-TF105	2.3
OKEEFE (LTP-TF-122)	5.7	ZION (BAR TF 134)	4.0	RAPTOR LS (PPG-TF 336)	2.3
ROVER (PPG-TF 306)	5.7	3B2	3.7	ROWDIER (DLFPS-321/3699)	2.3
ESCALADE	5.3	5LSS	3.7	TITAN MAX (TF456)	2.3
ESTRENA	5.3	BAR-FA8230	3.7	ATF1768	2.0
GRANDE 3	5.3	DAYBREAK (AH2)	3.7	FALCON SUPREME (RH1)	2.0
PST-5MINK	5.3	DLFPS-TF/3553	3.7	FINELAWN SUPREME (RH3)	2.0
TAR HEEL III (PST-5THM)	5.3	DRAGSTER	3.7	GALLARDO (DLFPS-TF/3550)	2.0
TOUGH (NAI-TUE)	5.3	ENDGAME (3N1)	3.7	K18-WB1	2.0
GEM (PPG-TF 316)	5.0	GLX REVIVE (PST-5GLBS)	3.7	ORIOLE (PST-5BYOB)	2.0
HELLCAT GLR (PST-5E6)	5.0	K18-NSE	3.7	PPG-TF 318	2.0
JT 517	5.0	PPG-TF 249	3.7	SPYDER 2LS (ZRC1)	2.0
RDC	5.0	RACEWAY (DLFPS-321/3696)	3.7	TEACHER (PPG-TF 313)	2.0
SETFM3	5.0	BENTLEY (DLFPS-321/3679)	3.3	BRAVO 2	1.7
STEALTH (PPG-TF 238)	5.0	EXTRAVAGANZA (PST-5MCMO)	3.3	DLFPS-321/3707	1.7
TITAN GLX (TF445)	5.0	FAIRFIELD (SETF104)	3.3	KENTUCKY-31	1.7
AVENGER III (PPG-TF 308)	4.7	FIRECRACKER G-LS (PPG-TF 315)	3.3	PPG-TF 231	1.7
BAR FA 8228	4.7	FIRENZA II (PPG-TF 244)	3.3	DLFPS-321/3708	1.3
CAPITAN (DLFPS-321/3705)	4.7	GRAND PRIX (FC15-01P)	3.3		
DLFPS-321/3695	4.7	PROVIDENCE (GO-RH20)	3.3	LSD VALUE	3.9
GRO-PRO (SE53D2)	4.7	TALLADEGA II (NAI-3N2)	3.3	C.V. (%)	58.7

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 45.

RED THREAD RATINGS OF TALL FESCUE CULTIVARS 1/  
2021 DATA

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

NAME	MOI	NAME	MOI	NAME	MOI
3B2	9.0	GLX REVIVE (PST-5GLBS)	9.0	RHL2	9.0
A-TF31	9.0	GRANDE 3	9.0	ROVER (PPG-TF 306)	9.0
AST8118LM	9.0	GRO-PRO (SE53D2)	9.0	RS1	9.0
AST8218LM	9.0	HEMI	9.0	SE5STAR	9.0
ATF1768	9.0	HOUNDOG NINE (DLFPS-321/3702)	9.0	SERENADE (PPG-TF 320)	9.0
ATF2116	9.0	JT 233	9.0	SETFM2	9.0
BANDIT	9.0	JT 517	9.0	SETFM3	9.0
BAR-FA8230	9.0	K18-NSE	9.0	SOUTHSIDE (PPG-TF 267)	9.0
BARNOBLE (BAR 9FE MAS)	9.0	K18-WB1	9.0	SPYDER 2LS (ZRC1)	9.0
BATTLE HAWK (NAI-ROS4)	9.0	KENTUCKY-31	9.0	SR 8700 (TMT1)	9.0
BENTLEY (DLFPS-321/3679)	9.0	KIZZLE (K18-ROE)	9.0	STEALTH (PPG-TF 238)	9.0
BIRMINGHAM	9.0	LAFAYETTE (GO-AOMK)	9.0	SYMPHONY (PPG-TF 305)	9.0
BLADERUNNER 3 (DLFPS-321/3701)	9.0	LIFEGUARD	9.0	TALLADEGA II (NAI-3N2)	9.0
BONFIRE (JS DTT)	9.0	MONUMENT (PST-5SQB)	9.0	TANGO	9.0
BRAVO 2	9.0	MOONDANCE GLX	9.0	TAR HEEL III (PST-5THM)	9.0
BULLSEYE	9.0	NAI-FQZ-17	9.0	TD2	9.0
CAPITAN (DLFPS-321/3705)	9.0	NAI-ST5	9.0	TITAN GLX (TF445)	9.0
CLASH (AH1)	9.0	NATURALLY GREEN	9.0	TITAN MAX (TF456)	9.0
COPIOUS TF	9.0	NT-3	9.0	TOUGH (NAI-TUE)	9.0
DEGAS (LTP-TF-111)	9.0	OG-WALK	9.0	TRIAD (PPG-TF 323)	9.0
DLFPS-321/3693	9.0	OKEEFE (LTP-TF-122)	9.0	TYCOON (COL-TF-148)	9.0
DLFPS-321/3694	9.0	ORIOLE (PST-5BYOB)	9.0	XANADU (JT 268 )	9.0
DLFPS-321/3695	9.0	PADRE 2	9.0	ZION (BAR TF 134)	9.0
DLFPS-321/3703	9.0	PALOMAR	9.0	AVENGER III (PPG-TF 308)	8.7
DLFPS-321/3706	9.0	PARAMOUNT	9.0	BAR FA 8228	8.7
DLFPS-321/3707	9.0	PPG-TF 231	9.0	DAYBREAK (AH2)	8.7
DLFPS-321/3708	9.0	PPG-TF 249	9.0	FAYETTE	8.7
DLFPS-TF/3553	9.0	PPG-TF 312	9.0	GALLARDO (DLFPS-TF/3550)	8.7
ENDGAME (3N1)	9.0	PPG-TF 318	9.0	GRAND PRIX (FC15-01P)	8.7
ESCALADE	9.0	PPG-TF 337	9.0	HELLCAT GLR (PST-5E6)	8.7
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	PRO GOLD	9.0	ROWDIER (DLFPS-321/3699)	8.7
ESTRENA	9.0	PROVIDENCE (GO-RH20)	9.0	TANK (PPG-TF 338)	8.7
EXPANSE (PPG-TF 262)	9.0	PST-5DC24	9.0	TEACHER (PPG-TF 313)	8.7
EXTRAVAGANZA (PST-5MCMO)	9.0	PST-5DZM	9.0	TITANIUM G-LS (PPG-TF 255)	8.7
FAIRFIELD (SETF104)	9.0	PST-5GQ	9.0	VALSETZ (PPG-TF 257)	8.7
FALCON SUPREME (RH1)	9.0	PST-5MINK	9.0	5LSS	8.3
FASTLANE (BY-TF-169)	9.0	PST-5TRN	9.0	BULLSEYE LTZ	8.3
FIERCE (K18-RS6)	9.0	RACEWAY (DLFPS-321/3696)	9.0	DRAGSTER	8.3
FINELAWN SUPREME (RH3)	9.0	RAD-TF105	9.0	DYNAMITE G-LS (PPG-TF 254)	8.3
FIRECRACKER G-LS (PPG-TF 315)	9.0	RAD-TF131	9.0	LBF	8.3
FIREHAWK SLT	9.0	RAPTOR I II	9.0	RAD-TF 115 (TURBO SS)	8.3
FIRENZA II (PPG-TF 244)	9.0	RAPTOR LS (PPG-TF 336)	9.0	TOPSHELF (BGR-TF3)	8.0
GALACTIC (SESCR1)	9.0	RC4	9.0		
GEM (PPG-TF 316)	9.0	RDC	9.0	LSD VALUE	0.5
GLX ACED (PST-5DART)	9.0	RHF	9.0	C.V. (%)	3.5

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

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

TABLE 46.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IN1	KS1	MO1	NC1	NJ1	NJ2	OK1	VA1	MEAN
CAPITAN (DLFPS-321/3705)	7.7	6.5	6.8	9.0	7.0	7.2	3.7	8.7	6.7	6.2	6.8
DEGAS (LTP-TF-111)	7.7	6.1	7.1	9.0	6.0	6.0	8.7	8.0	6.7	6.3	6.7
FINELAWN SUPREME (RH3)	8.0	6.2	7.6	8.3	7.7	6.2	8.0	7.7	6.5	5.5	6.7
SERENADE (PPG-TF 320)	8.0	5.9	6.8	8.7	6.0	6.4	8.7	8.3	6.3	5.7	6.7
TITANIUM G-LS (PPG-TF 255)	8.3	6.3	6.7	8.7	4.0	6.7	8.7	7.3	6.2	5.7	6.6
AVENGER III (PPG-TF 308)	7.7	6.3	6.8	9.0	5.7	6.3	9.0	7.0	6.8	5.2	6.6
PROVIDENCE (GO-RH20)	7.3	6.7	6.4	8.7	3.3	6.3	8.0	8.3	7.2	5.3	6.6
DAYBREAK (AH2)	7.7	6.8	6.1	9.0	3.0	6.2	9.0	8.7	6.0	5.3	6.6
TITAN GLX (TF445)	5.7	6.3	5.7	8.7	7.3	6.0	8.7	7.7	7.0	6.3	6.6
RHL2	7.3	6.3	6.3	8.7	7.0	5.9	8.7	8.3	6.5	5.8	6.6
RHF	8.7	6.2	6.0	9.0	5.0	6.3	8.7	7.7	6.7	5.5	6.5
TANK (PPG-TF 338)	8.0	5.7	5.9	8.3	4.3	7.1	8.7	7.3	6.8	5.3	6.5
DLFPS-321/3693	6.3	6.7	5.7	7.3	5.7	6.3	9.0	7.3	7.0	5.3	6.5
EXPANSE (PPG-TF 262)	8.0	6.2	6.6	9.0	8.0	5.6	9.0	8.0	6.5	4.7	6.5
STEALTH (PPG-TF 238)	7.7	6.0	5.4	8.3	7.3	6.3	9.0	8.3	7.3	5.2	6.5
RAPTOR LS (PPG-TF 336)	7.3	6.6	6.0	8.7	8.3	6.2	4.7	8.7	6.7	6.2	6.5
3B2	6.7	6.3	6.6	8.7	7.3	5.4	9.0	6.3	7.7	4.7	6.5
BONFIRE (JS DTT)	7.7	5.5	6.4	8.7	3.0	6.9	8.7	6.7	6.8	5.5	6.5
TITAN MAX (TF456)	7.7	5.9	5.6	8.7	6.7	6.5	8.3	7.3	6.5	5.2	6.4
TRIAD (PPG-TF 323)	8.7	5.5	6.2	9.0	7.7	5.8	6.7	8.7	7.2	6.0	6.4
DLFPS-321/3695	7.3	6.3	5.4	8.0	7.0	5.8	9.0	7.7	7.0	5.5	6.4
PARAMOUNT	7.7	6.1	6.9	9.0	2.3	5.5	9.0	6.7	7.7	5.5	6.4
TD2	8.0	6.5	5.3	8.7	4.3	6.0	7.3	7.7	7.2	5.7	6.4
SPYDER 2LS (ZRC1)	7.3	6.3	5.1	9.0	8.0	5.7	9.0	8.0	6.5	5.8	6.4
MOONDANCE GLX	7.3	6.4	6.4	8.0	4.7	5.5	8.3	5.7	8.2	5.5	6.4
FIERCE (K18-RS6)	7.3	5.9	6.2	9.0	5.3	6.1	9.0	8.7	6.2	4.7	6.4
GALACTIC (SESCR1)	8.0	6.1	6.9	8.7	6.0	5.2	7.3	7.3	7.2	5.5	6.4
BATTLE HAWK (NAI-ROS4)	8.0	6.3	6.2	7.3	3.7	5.7	8.3	7.3	7.0	5.7	6.4
SR 8700 (TMT1)	7.7	6.1	5.4	9.0	6.7	5.8	8.7	7.7	7.0	5.3	6.4
ZION (BAR TF 134)	7.7	6.2	6.0	8.7	7.3	5.5	6.7	7.7	7.0	5.8	6.4
DLFPS-321/3694	8.0	6.5	5.8	8.3	4.3	5.9	8.7	7.7	6.0	5.0	6.3
PPG-TF 312	7.0	6.4	6.0	7.0	4.0	6.0	8.7	8.3	5.8	6.2	6.3
TYCOON (COL-TF-148)	7.3	5.8	6.3	9.0	4.3	5.8	8.0	8.3	6.2	5.7	6.3
KIZZLE (K18-ROE)	7.7	5.8	5.8	8.3	6.3	5.6	9.0	6.3	7.3	5.7	6.3
K18-NSE	8.0	6.6	5.9	9.0	7.0	4.9	8.7	7.7	6.7	5.3	6.3
JT 233	7.3	6.3	6.6	7.7	4.3	5.5	8.3	7.3	7.2	5.2	6.3
GEM (PPG-TF 316)	7.7	6.2	5.3	8.3	7.0	6.0	8.0	7.7	7.0	5.3	6.3
RAPTOR III	8.0	5.8	6.7	8.7	5.3	5.3	9.0	7.7	6.5	5.5	6.3
CLASH (AH1)	5.7	6.1	5.7	9.0	5.3	5.8	8.0	8.0	7.0	5.0	6.3
TOUGH (NAI-TUE)	8.0	5.5	6.8	8.7	4.3	5.9	8.3	7.3	6.5	5.3	6.3
ESSENTIAL 2 (DLFPS-TF/3552)	7.0	5.9	6.0	8.7	4.0	5.8	7.7	8.0	6.8	5.8	6.3
ROVER (PPG-TF 306)	5.0	6.1	5.8	9.0	5.0	5.8	7.0	7.7	7.0	6.3	6.3
HEMI	6.0	5.8	6.8	8.7	6.0	5.4	8.3	7.0	6.2	5.8	6.3
DRAGSTER	8.0	6.0	6.3	8.7	6.3	5.5	7.0	7.7	7.0	5.3	6.3
FASTLANE (BY-TF-169)	7.0	6.0	6.0	9.0	5.3	5.0	8.3	7.7	7.2	6.2	6.3
XANADU (JT 268 )	7.7	6.2	6.6	7.0	6.0	5.4	8.7	8.0	6.8	4.8	6.3

TABLE 46.  
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IN1	KS1	MO1	NC1	NJ1	NJ2	OK1	VA1	MEAN
FIRENZA II (PPG-TF 244)	7.3	5.4	5.8	8.3	6.7	6.3	6.7	7.7	7.2	5.7	6.3
TEACHER (PPG-TF 313)	8.0	5.9	6.6	8.7	6.3	5.2	8.7	8.0	6.0	5.2	6.2
DYNAMITE G-LS (PPG-TF 254)	8.3	6.0	4.8	8.7	3.7	5.9	8.3	7.7	7.3	5.5	6.2
DLFPS-321/3708	7.3	5.8	5.6	9.0	3.7	5.8	7.3	7.3	6.5	6.2	6.2
PADRE 2	7.7	6.1	6.2	9.0	7.3	5.4	8.7	6.0	6.8	4.7	6.2
BULLSEYE LTZ	7.0	5.9	5.6	8.5	4.3	5.9	8.0	7.0	6.7	6.0	6.2
PPG-TF 337	7.7	6.2	5.1	8.0	5.3	6.5	6.3	7.3	6.5	5.7	6.2
DLFPS-321/3707	8.0	5.6	5.7	8.3	5.0	6.3	7.3	7.3	6.7	5.0	6.2
FALCON SUPREME (RH1)	6.0	5.6	6.9	7.3	5.3	6.3	7.7	7.0	6.5	4.7	6.2
BLADERUNNER 3 (DLFPS-321/3701)	7.3	6.2	5.0	8.7	7.0	5.4	6.7	7.0	7.0	6.0	6.2
RS1	7.7	5.4	5.6	9.0	5.0	5.7	9.0	7.0	6.0	6.0	6.2
HOUND DOG NINE (DLFPS-321/3702)	7.3	5.8	6.1	6.3	5.3	5.2	8.7	7.3	6.8	6.2	6.2
NT-3	5.3	6.2	6.0	9.0	4.3	5.5	8.7	6.7	5.8	6.0	6.2
OKEEFE (LTP-TF-122)	8.3	6.3	5.7	9.0	4.0	5.6	7.0	7.0	6.3	5.8	6.2
PPG-TF 231	7.3	6.0	5.4	8.0	6.7	5.3	9.0	7.3	6.8	5.3	6.2
DLFPS-TF/3553	7.7	5.8	5.9	7.7	3.0	5.8	9.0	7.7	6.3	5.3	6.2
RDC	7.7	6.2	5.0	8.7	6.7	5.4	9.0	7.3	6.3	5.2	6.2
ROWDIER (DLFPS-321/3699)	7.0	5.7	6.7	8.3	3.3	5.2	8.3	7.3	7.0	5.3	6.1
RACEWAY (DLFPS-321/3696)	7.3	5.6	5.4	8.3	5.7	5.8	9.0	6.3	7.0	4.8	6.1
5LSS	6.0	5.8	5.4	7.7	4.3	5.6	9.0	6.7	6.8	5.8	6.1
GALLARDO (DLFPS-TF/3550)	7.3	6.1	5.7	7.7	3.0	5.4	8.3	7.7	7.0	5.3	6.1
GRANDE 3	7.7	6.3	6.0	8.0	6.7	4.8	8.7	8.0	6.3	5.0	6.1
GLX ACED (PST-5DART)	7.0	5.7	6.3	8.7	6.0	5.4	7.7	8.0	6.5	4.8	6.1
NAI-ST5	6.0	5.3	6.0	9.0	5.3	5.6	8.0	8.3	6.5	5.3	6.1
ATF1768	5.3	5.6	5.9	8.3	5.0	5.5	8.3	6.3	7.0	5.5	6.1
RC4	7.7	5.8	6.0	8.3	3.0	5.7	8.0	7.7	6.3	4.8	6.1
PPG-TF 318	6.0	5.4	5.1	8.0	3.3	5.8	9.0	7.7	6.7	6.3	6.1
FIRECRACKER G-LS (PPG-TF 315)	8.0	5.8	5.0	8.3	2.0	6.0	6.3	8.3	7.2	5.5	6.0
ENDGAME (3N1)	7.3	6.0	5.2	8.3	7.3	5.3	8.3	5.0	6.7	5.2	6.0
ORIOLE (PST-5BYOB)	7.7	6.0	5.4	8.3	6.7	5.5	7.0	4.7	7.3	4.8	6.0
PPG-TF 249	7.0	6.2	5.1	7.7	6.3	5.4	5.3	7.7	6.8	5.5	6.0
SOUTHSIDE (PPG-TF 267)	6.7	5.6	5.4	8.5	4.7	5.6	9.0	7.0	6.5	4.5	6.0
DLFPS-321/3706	8.0	5.3	6.4	7.7	3.0	5.2	8.3	7.7	6.5	5.8	6.0
K18-WB1	7.0	5.8	6.1	7.0	4.7	5.6	8.0	7.0	5.7	4.8	6.0
PST-5TRN	7.0	6.0	5.8	9.0	2.0	5.2	7.3	7.0	6.8	5.3	6.0
GLX REVIVE (PST-5GLBS)	6.0	5.4	6.2	7.0	3.0	5.5	7.7	7.3	7.2	5.3	6.0
ESTRENA	7.3	5.4	5.3	8.7	4.7	5.3	8.7	7.3	7.3	5.2	5.9
GRO-PRO (SE53D2)	7.3	5.9	5.8	7.3	5.3	4.7	9.0	7.0	7.3	4.7	5.9
LIFEGUARD	6.7	5.8	6.0	6.0	5.7	5.2	8.0	6.7	7.2	5.2	5.9
VALSETZ (PPG-TF 257)	6.7	5.8	5.7	8.0	4.7	5.4	7.0	6.7	7.0	4.8	5.9
TALLADEGA II (NAI-3N2)	7.3	5.8	6.3	8.7	1.7	4.8	8.7	6.3	6.3	4.8	5.9
SYMPHONY (PPG-TF 305)	7.0	5.6	5.2	6.3	5.0	5.7	6.7	7.3	7.5	5.5	5.9
PRO GOLD	6.3	5.5	6.1	9.0	4.7	4.6	8.7	6.3	6.8	5.2	5.9
TAR HEEL III (PST-5THM)	6.3	5.6	6.4	9.0	4.7	5.3	6.0	6.0	6.8	4.8	5.9
KENTUCKY-31	4.7	5.1	7.1	9.0	5.3	4.8	9.0	5.0	7.0	4.8	5.9
HELLCAT GLR (PST-5E6)	6.7	5.6	5.6	7.3	4.3	4.8	9.0	7.3	6.3	5.7	5.8
EXTRAVAGANZA (PST-5MCMO)	6.7	5.8	5.1	9.0	4.3	5.0	7.0	7.3	6.8	5.3	5.8

TABLE 46.  
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	IN1	KS1	MO1	NC1	NJ1	NJ2	OK1	VA1	MEAN
FIREHAWK SLT	7.7	5.4	4.4	8.3	5.7	5.3	9.0	7.3	6.3	5.2	5.8
MONUMENT (PST-5SQB)	6.0	5.4	6.2	9.0	1.3	4.9	8.7	6.7	7.0	4.7	5.8
PST-5DC24	5.0	5.7	5.4	8.3	4.3	4.8	8.0	5.7	7.2	5.2	5.8
DLFPS-321/3703	4.7	5.9	6.2	7.0	5.3	4.8	6.7	7.0	6.7	5.2	5.8
ATF2116	7.3	5.4	5.0	9.0	4.0	5.2	8.3	5.7	6.8	4.7	5.7
BENTLEY (DLFPS-321/3679)	6.0	5.5	5.1	6.7	4.3	4.3	8.7	8.0	7.2	5.2	5.7
PST-5GQ	6.7	5.6	4.9	9.0	5.7	4.6	7.3	7.0	6.7	4.8	5.7
BAR-FA8230	8.0	5.3	6.0	9.0	6.3	3.9	7.0	6.0	6.0	5.2	5.6
FAYETTE	6.7	5.0	5.9	8.0	4.3	4.8	8.7	5.0	7.2	4.2	5.6
JT 517	7.0	5.7	5.4	8.0	4.7	4.0	8.0	5.0	6.7	5.2	5.6
FAIRFIELD (SETF104)	8.0	5.5	5.8	8.3	2.3	4.5	5.0	7.0	6.3	5.3	5.6
SETFM3	7.7	5.1	4.9	4.3	5.0	5.3	8.7	5.7	6.8	4.7	5.5
BULLSEYE	6.0	4.9	5.7	8.0	7.7	4.8	8.0	6.0	6.2	4.2	5.5
TANGO	7.0	5.2	5.7	8.0	5.7	4.7	6.7	5.7	6.0	4.5	5.4
PST-5DZM	5.7	5.1	5.9	5.3	3.3	4.6	7.7	5.7	7.2	5.3	5.4
BRAVO 2	7.3	4.8	5.9	8.0	2.7	4.8	7.0	5.0	7.5	3.8	5.4
BARNOBLE (BAR 9FE MAS)	6.7	5.2	5.4	7.7	6.0	3.8	9.0	5.0	6.3	4.2	5.3
SESSTAR	7.0	4.9	6.1	7.0	4.3	4.6	5.3	5.3	6.8	4.3	5.3
LBF	4.3	5.3	5.1	7.7	4.0	4.2	8.7	5.7	6.3	4.0	5.3
PST-5MINK	5.0	4.9	5.0	6.3	5.7	3.9	8.7	5.3	7.0	5.0	5.3
LAFAYETTE (GO-AOMK)	6.3	4.8	5.8	6.0	4.7	4.3	8.0	6.7	6.3	3.8	5.2
NATURALLY GREEN	5.7	5.1	5.4	8.7	4.3	3.8	7.7	5.7	6.3	4.0	5.2
AST8218LM	6.7	5.1	5.1	8.0	5.0	4.2	7.0	3.3	6.8	4.0	5.2
ESCALADE	5.0	4.2	5.8	9.0	5.3	3.9	7.3	5.0	7.2	4.0	5.1
RAD-TF105	5.7	5.3	5.1	6.7	3.0	4.8	4.0	7.3	5.8	4.8	5.1
BIRMINGHAM	7.7	5.0	5.0	5.0	8.0	3.4	7.0	5.3	6.7	4.5	5.1
RAD-TF131	6.0	4.8	5.3	8.7	1.0	3.9	8.7	5.7	4.5	4.8	5.1
NAI-FQZ-17	7.7	4.3	5.0	7.7	7.0	4.0	7.0	4.0	6.3	4.3	5.0
BANDIT	5.7	5.2	5.4	7.3	3.7	3.8	6.0	4.3	6.3	4.2	5.0
SETFM2	5.7	5.3	5.6	7.7	1.7	4.2	6.7	5.3	5.8	3.3	5.0
BAR FA 8228	7.7	4.4	5.1	8.3	4.0	3.5	7.3	5.0	6.5	4.3	5.0
PALOMAR	6.3	5.1	5.1	6.3	3.7	4.1	5.7	4.7	7.2	3.7	5.0
RAD-TF 115 (TURBO SS)	6.0	5.2	5.3	9.0	2.0	3.4	6.3	5.3	3.5	5.3	4.9
COPIOUS TF	7.0	5.0	4.6	6.0	1.0	3.9	8.3	6.0	5.7	4.5	4.9
A-TF31	5.7	4.3	4.6	6.3	1.3	4.7	8.7	5.7	6.2	3.7	4.9
OG-WALK	6.0	4.3	5.6	6.3	6.3	3.4	6.7	5.0	7.0	3.3	4.9
TOPSHELF (BGR-TF3)	5.3	4.7	5.1	5.3	4.3	3.4	8.0	4.0	6.7	3.7	4.8
AST8118LM	5.7	5.0	3.8	6.7	2.0	3.9	6.3	4.7	7.0	4.2	4.8
GRAND PRIX (FC15-01P)	4.7	4.4	4.6	6.3	2.0	3.9	6.3	5.0	6.5	3.8	4.6
LSD VALUE	2.3	1.7	2.1	2.5	4.0	2.1	2.7	1.6	1.8	1.7	1.1
C.V. (%)	20.1	18.0	23.3	19.0	50.4	24.9	21.3	14.3	16.7	20.2	21.7

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

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

TABLE 47.

PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CA7	IN1	OK1	MEAN
FAYETTE	8.3	8.3	8.0	8.3
VALSETZ (PPG-TF 257)	8.3	8.7	7.5	8.0
LBF	8.0	9.0	7.0	7.8
PPG-TF 249	7.3	9.0	7.5	7.8
GLX ACED (PST-5DART)	7.7	8.3	7.2	7.7
JT 233	7.0	9.0	6.8	7.6
KIZZLE (K18-ROE)	7.7	9.0	6.8	7.6
SR 8700 (TMT1)	7.3	9.0	6.8	7.6
PALOMAR	7.0	9.0	7.0	7.6
DYNAMITE G-LS (PPG-TF 254)	7.7	8.3	7.0	7.5
TOPSHELF (BGR-TF3)	7.3	8.7	6.8	7.5
ATF2116	7.7	9.0	6.5	7.4
AVENGER III (PPG-TF 308)	6.7	7.3	7.5	7.4
BRAVO 2	7.3	9.0	6.5	7.4
DLFPS-321/3695	6.0	8.7	7.5	7.4
ORIOLE (PST-5BYOB)	6.7	9.0	7.2	7.4
PPG-TF 231	5.7	9.0	7.7	7.4
DLFPS-321/3706	7.0	8.3	7.0	7.4
SYMPHONY (PPG-TF 305)	7.7	8.0	7.0	7.4
DLFPS-321/3693	7.3	8.7	6.8	7.4
GRANDE 3	6.7	9.0	6.8	7.4
AST8218LM	6.0	8.7	7.3	7.3
CLASH (AH1)	7.0	8.3	6.8	7.3
MOONDANCE GLX	5.3	9.0	7.7	7.3
TITANIUM G-LS (PPG-TF 255)	8.3	7.7	6.2	7.3
FIRENZA II (PPG-TF 244)	7.0	7.3	7.2	7.3
PADRE 2	6.3	9.0	7.0	7.3
DRAGSTER	6.7	9.0	7.2	7.2
PROVIDENCE (GO-RH20)	5.7	8.3	7.7	7.2
FALCON SUPREME (RH1)	7.3	8.3	6.5	7.2
ESCALADE	6.3	9.0	6.8	7.2
FIRECRACKER G-LS (PPG-TF 315)	7.7	8.7	6.2	7.2
NAI-ST5	7.0	8.3	6.5	7.2
ROVER (PPG-TF 306)	7.0	7.7	6.8	7.2
FASTLANE (BY-TF-169)	7.7	7.7	6.3	7.1
GEM (PPG-TF 316)	6.3	9.0	6.7	7.1
NT-3	8.3	7.3	6.0	7.1
RACEWAY (DLFPS-321/3696)	7.7	8.3	6.0	7.1
3B2	5.7	9.0	7.2	7.1
BULLSEYE	5.3	9.0	7.5	7.1
BATTLE HAWK (NAI-ROS4)	6.7	8.3	6.7	7.1
BENTLEY (DLFPS-321/3679)	6.3	8.7	6.7	7.1
CAPITAN (DLFPS-321/3705)	6.0	8.3	7.0	7.1
ESTRENA	5.7	9.0	7.0	7.1
NAI-FQZ-17	5.3	9.0	7.3	7.1
PPG-TF 318	6.0	8.3	7.2	7.1

TABLE 47.  
(CONT'D)

PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CA7	IN1	OK1	MEAN
ROWDIER (DLFPS-321/3699)	6.7	8.0	6.7	7.0
TAR HEEL III (PST-5THM)	6.3	8.3	6.7	7.0
BLADERUNNER 3 (DLFPS-321/3701)	6.3	7.7	6.8	6.9
HEMI	6.3	8.3	6.5	6.9
MONUMENT (PST-5SQB)	6.7	9.0	5.8	6.9
NATURALLY GREEN	5.7	9.0	6.8	6.9
DLFPS-TF/3553	7.7	8.0	6.0	6.9
PPG-TF 337	6.0	7.3	7.2	6.9
PST-5TRN	6.7	8.7	6.7	6.9
DEGAS (LTP-TF-111)	6.7	9.0	6.0	6.9
DLFPS-321/3703	6.7	9.0	6.0	6.9
GLX REVIVE (PST-5GLBS)	6.3	7.7	7.0	6.9
ENDGAME (3N1)	7.3	8.7	5.8	6.9
AST8118LM	6.0	9.0	6.3	6.8
ESSENTIAL 2 (DLFPS-TF/3552)	5.3	9.0	6.7	6.8
FINELAWN SUPREME (RH3)	6.3	8.3	6.5	6.8
JT 517	7.3	8.7	5.8	6.8
LIFEGUARD	6.0	9.0	6.5	6.8
PRO GOLD	6.0	8.7	6.5	6.8
TITAN MAX (TF456)	6.7	8.3	6.2	6.8
KENTUCKY-31	3.7	9.0	8.0	6.8
PARAMOUNT	5.3	8.0	6.8	6.8
COPIOUS TF	6.7	9.0	6.2	6.8
GALACTIC (SESCR1)	6.0	9.0	6.5	6.7
TEACHER (PPG-TF 313)	7.0	8.3	6.0	6.7
RHL2	6.7	7.0	6.8	6.7
SPYDER 2LS (ZRC1)	5.7	7.0	6.8	6.7
TANK (PPG-TF 338)	5.3	8.7	6.5	6.7
HELLCAT GLR (PST-5E6)	6.7	9.0	5.7	6.7
PST-5MINK	4.7	9.0	6.8	6.7
RDC	6.7	8.3	6.3	6.7
TANGO	5.7	9.0	6.5	6.7
XANADU (JT 268 )	4.0	8.0	7.8	6.7
FIERCE (K18-RS6)	6.7	7.7	6.0	6.6
BARNOBLE (BAR 9FE MAS)	5.3	9.0	6.5	6.6
TRIAD (PPG-TF 323)	6.3	8.3	5.8	6.6
ZION (BAR TF 134)	5.3	9.0	6.3	6.6
GALLARDO (DLFPS-TF/3550)	4.7	8.3	7.0	6.6
OKEEFE (LTP-TF-122)	6.3	7.3	6.3	6.6
PPG-TF 312	6.3	7.0	6.3	6.6
PST-5GQ	6.3	9.0	5.8	6.6
TITAN GLX (TF445)	5.7	7.7	6.5	6.6
TOUGH (NAI-TUE)	5.0	9.0	6.5	6.6
TYCOON (COL-TF-148)	6.7	8.7	5.7	6.6
SE5STAR	5.3	9.0	6.7	6.6
BAR FA 8228	6.0	9.0	6.0	6.5
DLFPS-321/3694	5.0	7.7	6.5	6.5

TABLE 47.  
(CONT'D)

PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CA7	IN1	OK1	MEAN
HOUND OG NINE (DLFPS-321/3702)	5.7	8.7	6.2	6.5
OG-WALK	4.0	9.0	6.8	6.5
RAD-TF105	5.7	9.0	6.0	6.5
STEALTH (PPG-TF 238)	4.7	8.0	7.2	6.5
EXPANSE (PPG-TF 262)	4.7	8.3	6.7	6.4
FIREHAWK SLT	6.0	8.0	5.8	6.4
GRAND PRIX (FC15-01P)	6.7	9.0	5.3	6.4
LAFAYETTE (GO-AOMK)	4.0	9.0	7.0	6.4
RHF	7.0	7.7	5.8	6.4
SETFM3	6.0	8.0	6.0	6.4
BAR-FA8230	5.3	9.0	6.0	6.4
BIRMINGHAM	4.0	9.0	6.5	6.4
A-TF31	5.0	8.7	6.0	6.3
TALLADEGA II (NAI-3N2)	4.7	9.0	6.5	6.3
EXTRAVAGANZA (PST-5MCMO)	7.0	7.7	5.2	6.2
SOUTHSIDE (PPG-TF 267)	5.0	8.0	6.5	6.2
GRO-PRO (SE53D2)	3.7	8.7	7.0	6.2
BONFIRE (JS DTT)	5.0	8.0	6.2	6.2
DAYBREAK (AH2)	3.3	7.7	7.2	6.2
5LSS	5.7	7.3	5.5	6.1
K18-WB1	5.3	7.7	6.0	6.1
SERENADE (PPG-TF 320)	4.3	8.7	6.5	6.1
TD2	6.3	6.7	6.0	6.1
ATF1768	4.7	8.7	6.0	6.0
BULLSEYE LTZ	4.7	8.7	5.5	5.9
PST-5DC24	4.0	9.0	6.0	5.9
BANDIT	3.3	9.0	6.3	5.9
FAIRFIELD (SETF104)	4.7	9.0	5.5	5.9
RAD-TF131	4.7	8.7	5.8	5.9
RC4	5.0	7.7	5.7	5.9
PST-5DZM	3.7	8.7	6.0	5.9
RAPTOR LS (PPG-TF 336)	4.3	8.3	6.0	5.9
RAPTOR III	4.7	8.0	5.8	5.8
SETFM2	5.0	9.0	5.2	5.8
DLFPS-321/3708	4.7	8.0	5.5	5.8
RS1	4.7	8.0	5.7	5.8
DLFPS-321/3707	2.7	8.0	6.7	5.7
K18-NSE	4.3	7.7	5.3	5.6
RAD-TF 115 (TURBO SS)	5.0	7.3	4.8	5.3
LSD VALUE	3.8	1.9	2.4	2.6
C.V. (%)	39.3	13.9	22.8	26.2

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 48.

BROWN PATCH (COOL TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	MO1	NC1	PA2	MEAN
PADRE 2	9.0	7.7	8.3	8.5
OKEEFE (LTP-TF-122)	9.0	6.7	8.3	8.3
ESSENTIAL 2 (DLFPS-TF/3552)	8.5	8.0	7.7	8.2
FIRENZA II (PPG-TF 244)	8.5	7.3	8.3	8.2
RDC	8.7	7.3	8.0	8.2
ENDGAME (3N1)	7.8	7.7	9.0	8.1
LIFEGUARD	8.3	7.7	8.0	8.1
MONUMENT (PST-5SQB)	8.2	7.7	8.3	8.1
AVENGER III (PPG-TF 308)	9.0	7.7	6.3	8.0
DLFPS-321/3695	8.3	6.7	8.7	8.0
GLX REVIVE (PST-5GLBS)	8.5	7.0	8.0	8.0
KENTUCKY-31	8.5	8.0	7.0	8.0
MOONDANCE GLX	8.7	6.0	8.7	8.0
PST-5TRN	8.5	7.3	7.7	8.0
RC4	8.2	7.7	8.0	8.0
XANADU (JT 268 )	8.2	7.3	8.3	8.0
EXPANSE (PPG-TF 262)	8.3	6.7	8.3	7.9
CAPITAN (DLFPS-321/3705)	8.8	7.3	6.7	7.9
DAYBREAK (AH2)	8.5	7.7	7.0	7.9
FAYETTE	8.0	7.3	8.3	7.9
TALLADEGA II (NAI-3N2)	8.0	6.7	9.0	7.9
BULLSEYE	7.7	7.7	8.7	7.9
RHF	8.2	6.7	8.7	7.9
TANK (PPG-TF 338)	8.7	7.0	7.3	7.9
GLX ACED (PST-5DART)	7.8	7.3	8.3	7.8
PRO GOLD	8.3	7.7	7.0	7.8
PROVIDENCE (GO-RH20)	8.3	6.7	8.0	7.8
TAR HEEL III (PST-5THM)	8.0	7.7	7.7	7.8
ATF2116	8.0	6.7	8.7	7.8
ESTRENA	8.2	7.0	8.0	7.8
JT 233	7.5	7.7	8.7	7.8
JT 517	8.0	6.7	8.7	7.8
3B2	8.3	6.3	8.0	7.8
BLADERUNNER 3 (DLFPS-321/3701)	8.7	5.7	8.0	7.8
BONFIRE (JS DTT)	8.0	7.3	7.7	7.8
FALCON SUPREME (RH1)	7.8	7.7	7.7	7.8
GALLARDO (DLFPS-TF/3550)	8.3	6.3	8.0	7.8
GRO-PRO (SE53D2)	8.3	6.7	7.7	7.8
K18-NSE	8.7	6.3	7.3	7.8
ORIOLE (PST-5BYOB)	7.7	7.3	8.3	7.8
PARAMOUNT	8.3	5.3	9.0	7.8
PST-5GQ	8.0	7.0	8.0	7.8
PST-5MINK	8.2	6.7	8.0	7.8
SYMPHONY (PPG-TF 305)	7.8	6.7	8.7	7.8
TRIAD (PPG-TF 323)	8.0	7.3	7.7	7.8
TYCOON (COL-TF-148)	8.3	6.3	8.0	7.8



TABLE 48.  
(CONT'D)

BROWN PATCH (COOL TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	MO1	NC1	PA2	MEAN
BAR FA 8228	7.2	8.0	8.7	7.8
FASTLANE (BY-TF-169)	8.2	7.7	6.7	7.7
ROWDIER (DLFPS-321/3699)	8.3	6.0	8.0	7.7
TOUGH (NAI-TUE)	8.2	6.7	7.7	7.7
BARNOBLE (BAR 9FE MAS)	8.0	6.7	7.7	7.6
DEGAS (LTP-TF-111)	8.2	6.3	7.7	7.6
DYNAMITE G-LS (PPG-TF 254)	8.0	6.7	7.7	7.6
FIERCE (K18-RS6)	8.7	7.0	6.0	7.6
GEM (PPG-TF 316)	7.8	7.0	7.7	7.6
GRANDE 3	8.3	6.7	7.0	7.6
HELLCAT GLR (PST-5E6)	8.0	6.7	7.7	7.6
HOUND OG NINE (DLFPS-321/3702)	8.3	6.7	7.0	7.6
LAFAYETTE (GO-AOMK)	8.0	6.0	8.3	7.6
SETFM3	7.8	7.0	7.7	7.6
TD2	8.2	6.3	7.7	7.6
ZION (BAR TF 134)	8.3	7.7	6.0	7.6
DLFPS-TF/3553	8.3	6.3	7.3	7.6
KIZZLE (K18-ROE)	7.5	6.3	9.0	7.6
NATURALLY GREEN	7.5	7.3	8.0	7.6
PALOMAR	7.8	6.0	8.7	7.6
SOUTHSIDE (PPG-TF 267)	8.2	7.7	6.3	7.6
AST8218LM	7.7	6.3	8.7	7.6
TANGO	7.2	7.3	8.7	7.6
BULLSEYE LTZ	7.8	7.0	7.3	7.5
DLFPS-321/3694	7.8	6.7	7.7	7.5
DRAGSTER	8.2	5.7	8.0	7.5
EXTRAVAGANZA (PST-5MCMO)	7.7	7.3	7.3	7.5
FIREHAWK SLT	8.2	6.7	7.0	7.5
RACEWAY (DLFPS-321/3696)	7.7	6.7	8.0	7.5
SERENADE (PPG-TF 320)	7.7	7.7	7.0	7.5
STEALTH (PPG-TF 238)	8.2	7.3	6.3	7.5
A-TF31	7.3	6.0	9.0	7.4
BATTLE HAWK (NAI-ROS4)	7.7	6.0	8.3	7.4
CLASH (AH1)	8.0	7.7	6.0	7.4
DLFPS-321/3693	8.3	5.3	7.7	7.4
FINELAWN SUPREME (RH3)	8.0	6.0	7.7	7.4
NAI-ST5	7.8	7.3	6.7	7.4
PPG-TF 231	8.3	6.3	6.7	7.4
PST-5DZM	7.8	6.3	7.7	7.4
SR 8700 (TMT1)	8.8	4.3	7.7	7.4
TITAN GLX (TF445)	7.7	6.7	7.7	7.4
RAPTOR III	8.2	7.0	6.3	7.4
ROVER (PPG-TF 306)	8.0	6.3	7.3	7.4
SPYDER 2LS (ZRC1)	8.8	6.7	5.3	7.4
TEACHER (PPG-TF 313)	7.7	7.0	7.3	7.4
BIRMINGHAM	7.8	4.7	9.0	7.3
PPG-TF 249	7.8	6.7	7.0	7.3

TABLE 48.  
(CONT'D)

BROWN PATCH (COOL TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	MO1	NC1	PA2	MEAN
PPG-TF 318	8.0	7.7	5.7	7.3
PST-5DC24	7.0	7.0	8.3	7.3
SETFM2	7.8	6.7	7.0	7.3
GALACTIC (SESCR1)	7.7	8.0	6.0	7.3
LBF	8.3	5.3	7.3	7.3
OG-WALK	7.2	7.0	8.0	7.3
COPIOUS TF	7.2	6.3	8.7	7.3
AST8118LM	7.3	6.3	8.0	7.3
BANDIT	7.5	6.7	7.3	7.3
BENTLEY (DLFPS-321/3679)	7.8	6.7	6.7	7.3
BRAVO 2	7.8	6.0	7.3	7.3
DLFPS-321/3703	8.2	5.3	7.3	7.3
PPG-TF 337	7.5	8.0	6.0	7.3
RS1	7.8	8.0	5.3	7.3
TITANIUM G-LS (PPG-TF 255)	8.2	7.7	5.0	7.3
VALSETZ (PPG-TF 257)	8.0	6.7	6.3	7.3
NAI-FQZ-17	7.0	6.3	8.3	7.2
PPG-TF 312	8.3	6.3	5.7	7.2
ESCALADE	7.8	4.3	8.7	7.2
GRAND PRIX (FC15-01P)	7.2	6.3	8.0	7.2
RHL2	8.3	5.7	6.3	7.2
HEMI	8.0	5.3	7.0	7.1
RAD-TF105	7.7	6.0	7.0	7.1
BAR-FA8230	7.5	6.7	6.3	7.0
DLFPS-321/3708	8.2	6.3	5.3	7.0
K18-WB1	7.8	6.0	6.3	7.0
SE5STAR	7.7	5.3	7.3	7.0
ATF1768	8.0	6.0	5.7	6.9
DLFPS-321/3707	8.3	6.0	4.7	6.8
NT-3	8.2	5.0	6.0	6.8
RAPTOR LS (PPG-TF 336)	7.7	6.7	5.3	6.8
FIRECRACKER G-LS (PPG-TF 315)	7.7	5.0	6.7	6.8
TITAN MAX (TF456)	7.7	6.0	5.7	6.8
5LSS	7.7	4.7	6.3	6.6
DLFPS-321/3706	8.0	4.3	5.7	6.5
FAIRFIELD (SETF104)	7.8	5.3	4.7	6.4
RAD-TF 115 (TURBO SS)	7.5	5.3	5.3	6.4
TOPSHELF (BGR-TF3)	7.2	4.3	6.3	6.3
RAD-TF131	7.3	4.0	4.0	5.7
LSD VALUE	1.0	2.1	2.8	1.4
C.V. (%)	8.5	19.6	23.7	16.7

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

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

TABLE 49.

GRAY LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	NJ1	NJ2	MEAN
BARNOBLE (BAR 9FE MAS)	9.0	7.3	8.2
BONFIRE (JS DTT)	9.0	7.3	8.2
DAYBREAK (AH2)	9.0	7.3	8.2
ROWDIER (DLFPS-321/3699)	9.0	7.3	8.2
CLASH (AH1)	9.0	7.0	8.0
GLX ACED (PST-5DART)	9.0	7.0	8.0
TITANIUM G-LS (PPG-TF 255)	9.0	7.0	8.0
TYCOON (COL-TF-148)	9.0	7.0	8.0
DEGAS (LTP-TF-111)	9.0	6.7	7.8
DRAGSTER	9.0	6.7	7.8
FIRECRACKER G-LS (PPG-TF 315)	9.0	6.7	7.8
GRANDE 3	9.0	6.7	7.8
TAR HEEL III (PST-5THM)	9.0	6.7	7.8
TRIAD (PPG-TF 323)	9.0	6.7	7.8
DYNAMITE G-LS (PPG-TF 254)	9.0	6.3	7.7
EXTRAVAGANZA (PST-5MCMO)	9.0	6.3	7.7
FIRENZA II (PPG-TF 244)	9.0	6.3	7.7
OKEEFE (LTP-TF-122)	9.0	6.3	7.7
PST-5TRN	9.0	6.3	7.7
RACEWAY (DLFPS-321/3696)	9.0	6.3	7.7
SR 8700 (TMT1)	9.0	6.3	7.7
TALLADEGA II (NAI-3N2)	9.0	6.3	7.7
TANK (PPG-TF 338)	9.0	6.3	7.7
ZION (BAR TF 134)	9.0	6.3	7.7
AST8218LM	9.0	6.0	7.5
AVENGER III (PPG-TF 308)	9.0	6.0	7.5
COPIOUS TF	9.0	6.0	7.5
DLFPS-321/3693	8.7	6.3	7.5
DLFPS-321/3708	9.0	6.0	7.5
FIERCE (K18-RS6)	9.0	6.0	7.5
JT 233	9.0	6.0	7.5
MOONDANCE GLX	9.0	6.0	7.5
NAI-ST5	9.0	6.0	7.5
ROVER (PPG-TF 306)	9.0	6.0	7.5
TOUGH (NAI-TUE)	9.0	6.0	7.5
A-TF31	9.0	5.7	7.3
AST8118LM	9.0	5.7	7.3
BULLSEYE LTZ	9.0	5.7	7.3
CAPITAN (DLFPS-321/3705)	9.0	5.7	7.3
DLFPS-321/3707	9.0	5.7	7.3
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	5.7	7.3
FALCON SUPREME (RH1)	9.0	5.7	7.3
GEM (PPG-TF 316)	9.0	5.7	7.3
GLX REVIVE (PST-5GLBS)	9.0	5.7	7.3
PRO GOLD	9.0	5.7	7.3
RDC	9.0	5.7	7.3

TABLE 49.  
(CONT'D)

GRAY LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	NJ1	NJ2	MEAN
RHF	9.0	5.7	7.3
TITAN GLX (TF445)	9.0	5.7	7.3
VALSETZ (PPG-TF 257)	9.0	5.7	7.3
XANADU (JT 268 )	9.0	5.7	7.3
5LSS	9.0	5.3	7.2
DLFPS-321/3695	9.0	5.3	7.2
GALLARDO (DLFPS-TF/3550)	9.0	5.3	7.2
K18-NSE	9.0	5.3	7.2
ORIOLE (PST-5BYOB)	9.0	5.3	7.2
PPG-TF 249	9.0	5.3	7.2
PPG-TF 337	9.0	5.3	7.2
TD2	8.7	5.7	7.2
TITAN MAX (TF456)	9.0	5.3	7.2
ATF1768	9.0	5.0	7.0
BAR-FA8230	8.7	5.3	7.0
BATTLE HAWK (NAI-ROS4)	9.0	5.0	7.0
BIRMINGHAM	9.0	5.0	7.0
DLFPS-TF/3553	9.0	5.0	7.0
FASTLANE (BY-TF-169)	9.0	5.0	7.0
FINELAWN SUPREME (RH3)	9.0	5.0	7.0
GRO-PRO (SE53D2)	9.0	5.0	7.0
LAFAYETTE (GO-AOMK)	9.0	5.0	7.0
LIFEGUARD	9.0	5.0	7.0
MONUMENT (PST-5SQB)	9.0	5.0	7.0
PPG-TF 312	9.0	5.0	7.0
PPG-TF 318	9.0	5.0	7.0
PROVIDENCE (GO-RH20)	9.0	5.0	7.0
PST-5MINK	8.7	5.3	7.0
RAPTOR LS (PPG-TF 336)	9.0	5.0	7.0
RC4	9.0	5.0	7.0
SERENADE (PPG-TF 320)	9.0	5.0	7.0
SPYDER 2LS (ZRC1)	9.0	5.0	7.0
STEALTH (PPG-TF 238)	9.0	5.0	7.0
TEACHER (PPG-TF 313)	8.7	5.3	7.0
BLADERUNNER 3 (DLFPS-321/3701)	9.0	4.7	6.8
ENDGAME (3N1)	9.0	4.7	6.8
PARAMOUNT	9.0	4.7	6.8
PPG-TF 231	9.0	4.7	6.8
PST-5DC24	9.0	4.7	6.8
PST-5GQ	9.0	4.7	6.8
RHL2	9.0	4.7	6.8
RS1	8.3	5.3	6.8
SE5STAR	9.0	4.7	6.8
SETFM3	9.0	4.7	6.8
3B2	9.0	4.3	6.7
BENTLEY (DLFPS-321/3679)	9.0	4.3	6.7
BULLSEYE	9.0	4.3	6.7

TABLE 49.  
(CONT'D)

GRAY LEAF SPOT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/			
NAME	NJ1	NJ2	MEAN
DLFPS-321/3703	9.0	4.3	6.7
DLFPS-321/3706	9.0	4.3	6.7
HELLCAT GLR (PST-5E6)	9.0	4.3	6.7
K18-WB1	9.0	4.3	6.7
KIZZLE (K18-ROE)	9.0	4.3	6.7
PALOMAR	9.0	4.3	6.7
RAPTOR III	9.0	4.3	6.7
SOUTHSIDE (PPG-TF 267)	9.0	4.3	6.7
SYMPHONY (PPG-TF 305)	9.0	4.3	6.7
BANDIT	9.0	4.0	6.5
DLFPS-321/3694	9.0	4.0	6.5
FAYETTE	9.0	4.0	6.5
GALACTIC (SESCR1)	9.0	4.0	6.5
HEMI	9.0	4.0	6.5
HOUNDOG NINE (DLFPS-321/3702)	9.0	4.0	6.5
PADRE 2	9.0	4.0	6.5
RAD-TF105	9.0	4.0	6.5
SETFM2	9.0	4.0	6.5
TANGO	9.0	4.0	6.5
TOPSHELF (BGR-TF3)	9.0	4.0	6.5
ATF2116	9.0	3.7	6.3
BRAVO 2	9.0	3.7	6.3
EXPANSE (PPG-TF 262)	9.0	3.7	6.3
LBF	9.0	3.7	6.3
NAI-FQZ-17	9.0	3.7	6.3
NT-3	9.0	3.7	6.3
OG-WALK	9.0	3.7	6.3
FIREHAWK SLT	9.0	3.3	6.2
JT 517	9.0	3.3	6.2
PST-5DZM	8.7	3.7	6.2
GRAND PRIX (FC15-01P)	9.0	3.0	6.0
NATURALLY GREEN	9.0	3.0	6.0
BAR FA 8228	9.0	2.7	5.8
ESCALADE	8.7	3.0	5.8
ESTRENA	9.0	2.3	5.7
FAIRFIELD (SETF104)	8.3	3.0	5.7
KENTUCKY-31	9.0	2.0	5.5
RAD-TF 115 (TURBO SS)	6.0	3.0	4.5
RAD-TF131	6.7	2.0	4.3
LSD VALUE	0.5	1.5	0.8
C.V. (%)	3.3	18.5	9.9

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 50.

PINK SNOW MOLD RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	ON1	NAME	ON1	NAME	ON1
K18-WB1	6.6	DEGAS (LTP-TF-111)	5.6	COPIOUS TF	5.0
STEALTH (PPG-TF 238)	6.6	DLFPS-321/3707	5.6	PADRE 2	5.0
DAYBREAK (AH2)	6.4	FIRENZA II (PPG-TF 244)	5.6	RAPTOR LS (PPG-TF 336)	5.0
DLFPS-TF/3553	6.4	LIFEGUARD	5.6	TITAN GLX (TF445)	5.0
ATF1768	6.4	TALLADEGA II (NAI-3N2)	5.6	TITANIUM G-LS (PPG-TF 255)	5.0
SERENADE (PPG-TF 320)	6.4	TANK (PPG-TF 338)	5.6	DLFPS-321/3694	4.9
BLADERUNNER 3 (DLFPS-321/3701)	6.3	DLFPS-321/3693	5.6	FASTLANE (BY-TF-169)	4.9
GALACTIC (SESCR1)	6.3	GLX REVIVE (PST-5GLBS)	5.6	HEMI	4.9
TEACHER (PPG-TF 313)	6.3	RDC	5.6	MOONDANCE GLX	4.9
PPG-TF 312	6.2	BARNOBLE (BAR 9FE MAS)	5.4	PST-5DC24	4.9
SOUTHSIDE (PPG-TF 267)	6.2	DLFPS-321/3703	5.4	RS1	4.9
BULLSEYE	6.2	FIRECRACKER G-LS (PPG-TF 315)	5.4	TANGO	4.9
SYMPHONY (PPG-TF 305)	6.2	PPG-TF 231	5.4	BAR FA 8228	4.8
XANADU (JT 268 )	6.2	ZION (BAR TF 134)	5.4	BULLSEYE LTZ	4.8
FIREHAWK SLT	6.1	DLFPS-321/3695	5.3	GRAND PRIX (FC15-01P)	4.8
DYNAMITE G-LS (PPG-TF 254)	6.1	JT 517	5.3	GRO-PRO (SE53D2)	4.8
PROVIDENCE (GO-RH20)	6.1	KIZZLE (K18-ROE)	5.3	A-TF31	4.7
DRAGSTER	6.0	OG-WALK	5.3	AST8218LM	4.7
ESTRENA	6.0	OKEEFE (LTP-TF-122)	5.3	BAR-FA8230	4.7
FIERCE (K18-RS6)	6.0	PPG-TF 249	5.3	EXTRAVAGANZA (PST-5MCMO)	4.7
GEM (PPG-TF 316)	6.0	PST-5DZM	5.3	TAR HEEL III (PST-5THM)	4.7
PPG-TF 318	6.0	VALSETZ (PPG-TF 257)	5.3	BONFIRE (JS DTT)	4.7
SPYDER 2LS (ZRC1)	6.0	AVENGER III (PPG-TF 308)	5.2	NT-3	4.7
5LSS	5.9	BIRMINGHAM	5.2	FAIRFIELD (SETF104)	4.6
DLFPS-321/3708	5.9	DLFPS-321/3706	5.2	PPG-TF 337	4.6
RHL2	5.9	FAYETTE	5.2	SE5STAR	4.6
BATTLE HAWK (NAI-ROS4)	5.9	GRANDE 3	5.2	PRO GOLD	4.6
TITAN MAX (TF456)	5.9	K18-NSE	5.2	RACEWAY (DLFPS-321/3696)	4.6
FINELAWN SUPREME (RH3)	5.8	NAI-FQZ-17	5.2	TOUGH (NAI-TUE)	4.6
CLASH (AH1)	5.8	PARAMOUNT	5.2	ESCALADE	4.4
EXPANSE (PPG-TF 262)	5.8	RAD-TF105	5.2	MONUMENT (PST-5SQB)	4.4
FALCON SUPREME (RH1)	5.8	RAD-TF131	5.2	RC4	4.4
HOUNDOG NINE (DLFPS-321/3702)	5.8	RHF	5.2	GLX ACED (PST-5DART)	4.3
KENTUCKY-31	5.8	ROWDIER (DLFPS-321/3699)	5.2	RAPTOR III	4.3
NAI-ST5	5.8	SETFM3	5.2	TOPSHELF (BGR-TF3)	4.3
BANDIT	5.7	TRIAD (PPG-TF 323)	5.2	ORIOLE (PST-5BYOB)	4.2
ESSENTIAL 2 (DLFPS-TF/3552)	5.7	TYCOON (COL-TF-148)	5.2	SETFM2	4.1
GALLARDO (DLFPS-TF/3550)	5.7	AST8118LM	5.1	RAD-TF 115 (TURBO SS)	4.1
JT 233	5.7	CAPITAN (DLFPS-321/3705)	5.1	HELLCAT GLR (PST-5E6)	4.0
LAFAYETTE (GO-AOMK)	5.7	NATURALLY GREEN	5.1	LBF	4.0
ROVER (PPG-TF 306)	5.7	PST-5TRN	5.1	PST-5GQ	4.0
SR 8700 (TMT1)	5.7	TD2	5.1	PALOMAR	3.9
3B2	5.6	BENTLEY (DLFPS-321/3679)	5.1		
ATF2116	5.6	ENDGAME (3N1)	5.1	LSD VALUE	2.2
BRAVO 2	5.6	PST-5MINK	5.1	C.V. (%)	31.5

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 51.

PINK PATCH RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	VA1	NAME	VA1	NAME	VA1
3B2	9.0	PPG-TF 318	8.7	BONFIRE (JS DTT)	8.0
BAR-FA8230	9.0	PST-5DC24	8.7	DLFPS-321/3694	8.0
DLFPS-321/3695	9.0	PST-5TRN	8.7	DLFPS-321/3703	8.0
DLFPS-321/3706	9.0	RS1	8.7	DLFPS-TF/3553	8.0
ENDGAME (3N1)	9.0	SR 8700 (TMT1)	8.7	ESCALADE	8.0
ESSENTIAL 2 (DLFPS-TF/3552)	9.0	TYCOON (COL-TF-148)	8.7	FIERCE (K18-RS6)	8.0
GALLARDO (DLFPS-TF/3550)	9.0	VALSETZ (PPG-TF 257)	8.7	FIRENZA II (PPG-TF 244)	8.0
JT 517	9.0	BAR FA 8228	8.3	GALACTIC (SESCR1)	8.0
K18-NSE	9.0	BARNOBLE (BAR 9FE MAS)	8.3	GEM (PPG-TF 316)	8.0
KENTUCKY-31	9.0	BATTLE HAWK (NAI-ROS4)	8.3	JT 233	8.0
LBF	9.0	BRAVO 2	8.3	K18-WB1	8.0
MONUMENT (PST-5SQB)	9.0	CAPITAN (DLFPS-321/3705)	8.3	NAI-FQZ-17	8.0
MOONDANCE GLX	9.0	CLASH (AH1)	8.3	PADRE 2	8.0
OG-WALK	9.0	COPIOUS TF	8.3	PPG-TF 312	8.0
OKEEFE (LTP-TF-122)	9.0	DLFPS-321/3707	8.3	RAPTOR LS (PPG-TF 336)	8.0
PALOMAR	9.0	DLFPS-321/3708	8.3	RHF	8.0
PARAMOUNT	9.0	DRAGSTER	8.3	ROVER (PPG-TF 306)	8.0
PPG-TF 231	9.0	DYNAMITE G-LS (PPG-TF 254)	8.3	ROWDIER (DLFPS-321/3699)	8.0
PPG-TF 249	9.0	EXPANSE (PPG-TF 262)	8.3	SERENADE (PPG-TF 320)	8.0
PPG-TF 337	9.0	FAIRFIELD (SETF104)	8.3	STEALTH (PPG-TF 238)	8.0
PRO GOLD	9.0	FALCON SUPREME (RH1)	8.3	A-TF31	7.7
PROVIDENCE (GO-RH20)	9.0	FASTLANE (BY-TF-169)	8.3	AST8218LM	7.7
PST-5DZM	9.0	FIRECRACKER G-LS (PPG-TF 315)	8.3	ATF2116	7.7
PST-5GQ	9.0	GLX REVIVE (PST-5GLBS)	8.3	ESTRENA	7.7
RAD-TF 115 (TURBO SS)	9.0	GRAND PRIX (FC15-01P)	8.3	GLX ACED (PST-5DART)	7.7
RDC	9.0	GRANDE 3	8.3	RAD-TF105	7.7
SETFM2	9.0	GRO-PRO (SE53D2)	8.3	RC4	7.7
SYMPHONY (PPG-TF 305)	9.0	HEMI	8.3	TOPSHELF (BGR-TF3)	7.7
TALLADEGA II (NAI-3N2)	9.0	KIZZLE (K18-ROE)	8.3	TRIAD (PPG-TF 323)	7.7
TANGO	9.0	LIFEGUARD	8.3	AST8118LM	7.3
TITAN MAX (TF456)	9.0	NAI-ST5	8.3	DEGAS (LTP-TF-111)	7.3
TITANIUM G-LS (PPG-TF 255)	9.0	NATURALLY GREEN	8.3	RAD-TF131	7.3
XANADU (JT 268 )	9.0	NT-3	8.3	RAPTOR III	7.3
ATF1768	8.7	ORIOLE (PST-5BYOB)	8.3	SE5STAR	7.3
BANDIT	8.7	PST-5MINK	8.3	SOUTHSIDE (PPG-TF 267)	7.3
BENTLEY (DLFPS-321/3679)	8.7	RHL2	8.3	TEACHER (PPG-TF 313)	7.3
BULLSEYE	8.7	SPYDER 2LS (ZRC1)	8.3	RACEWAY (DLFPS-321/3696)	7.0
BULLSEYE LTZ	8.7	TAR HEEL III (PST-5THM)	8.3	SETFM3	7.0
DLFPS-321/3693	8.7	TITAN GLX (TF445)	8.3	TD2	7.0
EXTRAVAGANZA (PST-5MCMO)	8.7	TOUGH (NAI-TUE)	8.3	TANK (PPG-TF 338)	6.7
FAYETTE	8.7	ZION (BAR TF 134)	8.3	DAYBREAK (AH2)	6.3
FINELAWN SUPREME (RH3)	8.7	5LSS	8.0	HOUNDOG NINE (DLFPS-321/3702)	6.0
FIREHAWK SLT	8.7	AVENGER III (PPG-TF 308)	8.0		
HELLCAT GLR (PST-5E6)	8.7	BIRMINGHAM	8.0	LSD VALUE	1.8
LAFAYETTE (GO-AOMK)	8.7	BLADERUNNER 3 (DLFPS-321/3701)	8.0	C.V. (%)	13.1

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 52.

FALL COLOR (SEPTEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	OK1	MEAN
TOPSHELF (BGR-TF3)	6.3	5.9	6.5	6.1
RAD-TF131	7.0	6.0	6.3	6.1
RAD-TF 115 (TURBO SS)	7.0	5.8	6.3	6.0
A-TF31	6.7	5.6	6.7	6.0
AST8118LM	6.7	5.7	6.3	6.0
AST8218LM	6.7	5.3	6.8	6.0
LBF	6.3	5.7	6.3	5.9
SETFM2	7.0	5.6	6.3	5.8
BIRMINGHAM	6.7	5.4	6.3	5.8
NAI-FQZ-17	6.7	5.7	6.3	5.8
PST-5DC24	7.0	5.2	6.5	5.8
ATF1768	6.7	5.4	6.5	5.8
BANDIT	7.3	5.2	6.3	5.8
LAFAYETTE (GO-AOMK)	7.0	5.2	6.5	5.8
BLADERUNNER 3 (DLFPS-321/3701)	7.0	5.2	6.3	5.7
JT 517	7.0	5.1	6.3	5.7
BARNOBLE (BAR 9FE MAS)	7.0	5.0	6.3	5.7
GALLARDO (DLFPS-TF/3550)	7.0	5.2	6.2	5.7
PST-5MINK	6.7	5.2	6.3	5.6
JT 233	7.0	5.0	6.3	5.6
HOUNDOG NINE (DLFPS-321/3702)	7.0	5.0	6.5	5.6
NATURALLY GREEN	6.3	5.4	6.2	5.6
RC4	7.3	4.9	6.2	5.6
BRAVO 2	6.7	5.2	6.2	5.6
FAYETTE	6.7	5.0	6.5	5.6
TANK (PPG-TF 338)	6.7	5.1	6.3	5.6
OG-WALK	6.0	5.3	6.2	5.6
PARAMOUNT	7.3	4.9	6.0	5.6
TRIAD (PPG-TF 323)	7.3	5.0	6.2	5.6
ATF2116	6.0	5.1	6.5	5.6
RACEWAY (DLFPS-321/3696)	7.0	4.8	6.3	5.5
RAD-TF105	7.0	5.0	6.2	5.5
DLFPS-321/3708	7.3	4.9	6.3	5.5
BAR FA 8228	6.0	5.0	6.2	5.5
DLFPS-TF/3553	7.0	4.7	6.5	5.5
ESCALADE	6.0	4.8	6.3	5.5
PALOMAR	6.0	5.0	6.3	5.5
SR 8700 (TMT1)	7.0	4.9	6.2	5.5
FASTLANE (BY-TF-169)	7.0	4.8	6.3	5.5
SETFM3	6.7	4.9	6.2	5.5
FIRENZA II (PPG-TF 244)	7.0	4.8	6.5	5.5
GEM (PPG-TF 316)	7.0	4.9	6.3	5.5
BENTLEY (DLFPS-321/3679)	6.7	4.7	6.7	5.4
ROWDIER (DLFPS-321/3699)	7.0	4.6	6.5	5.4
SYMPHONY (PPG-TF 305)	7.0	4.6	6.7	5.4
TOUGH (NAI-TUE)	7.3	4.8	6.3	5.4



TABLE 52.  
(CONT'D)

FALL COLOR (SEPTEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	OK1	MEAN
XANADU (JT 268 )	7.0	4.9	6.3	5.4
AVENGER III (PPG-TF 308)	7.0	4.8	6.2	5.4
GRANDE 3	6.7	4.8	6.3	5.4
SOUTHSIDE (PPG-TF 267)	7.0	4.8	6.3	5.4
TANGO	6.7	4.7	6.3	5.4
TITANIUM G-LS (PPG-TF 255)	7.0	4.6	6.7	5.4
VALSETZ (PPG-TF 257)	6.7	4.8	6.2	5.4
COPIOUS TF	6.7	4.8	6.3	5.4
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	4.9	6.2	5.4
TEACHER (PPG-TF 313)	7.0	4.3	6.5	5.4
ENDGAME (3N1)	6.7	4.8	6.0	5.4
FIRECRACKER G-LS (PPG-TF 315)	6.7	4.7	6.3	5.4
PADRE 2	6.7	4.8	6.2	5.4
PPG-TF 249	6.7	4.7	6.3	5.4
NAI-ST5	6.7	4.6	6.5	5.3
DLFPS-321/3703	6.7	4.4	6.5	5.3
DLFPS-321/3707	7.0	4.7	6.0	5.3
BAR-FA8230	6.3	4.7	6.3	5.3
STEALTH (PPG-TF 238)	7.3	4.3	6.3	5.3
ZION (BAR TF 134)	7.0	4.7	5.8	5.3
RAPTOR III	6.3	4.9	6.0	5.3
EXPANSE (PPG-TF 262)	7.3	4.6	6.2	5.3
FAIRFIELD (SETF104)	6.7	4.6	6.3	5.3
CAPITAN (DLFPS-321/3705)	7.7	4.3	6.0	5.3
DEGAS (LTP-TF-111)	7.0	4.3	6.3	5.3
DYNAMITE G-LS (PPG-TF 254)	6.3	4.8	6.2	5.3
TD2	7.0	4.4	6.2	5.3
BULLSEYE LTZ	6.7	4.4	6.3	5.2
NT-3	7.3	4.4	6.3	5.2
OKEEFE (LTP-TF-122)	7.0	4.7	6.0	5.2
PROVIDENCE (GO-RH20)	6.7	4.4	6.3	5.2
TYCOON (COL-TF-148)	7.3	4.6	6.0	5.2
GRO-PRO (SE53D2)	6.0	4.6	6.2	5.2
TITAN GLX (TF445)	6.3	4.6	6.2	5.2
DLFPS-321/3706	6.7	4.4	6.0	5.2
PPG-TF 318	7.0	4.6	6.3	5.2
DLFPS-321/3695	7.3	4.3	6.0	5.2
ROVER (PPG-TF 306)	6.7	4.4	6.2	5.2
SERENADE (PPG-TF 320)	6.7	4.3	6.3	5.2
DLFPS-321/3694	7.0	4.6	6.2	5.2
ORIOLE (PST-5BYOB)	6.3	4.4	6.2	5.2
PPG-TF 231	7.7	4.2	6.2	5.2
3B2	7.0	4.4	6.0	5.1
CLASH (AH1)	7.0	4.4	6.0	5.1
DLFPS-321/3693	7.3	4.3	6.0	5.1
GLX REVIVE (PST-5GLBS)	6.3	4.3	6.2	5.1
PST-5GQ	6.7	4.6	6.2	5.1

TABLE 52.  
(CONT'D)

FALL COLOR (SEPTEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	OK1	MEAN
TALLADEGA II (NAI-3N2)	7.0	4.2	6.3	5.1
BULLSEYE	6.7	4.3	6.2	5.1
K18-WB1	7.0	4.3	6.3	5.1
RHF	6.3	4.4	6.2	5.1
ESTRENA	6.0	4.4	5.8	5.1
FALCON SUPREME (RH1)	6.7	4.3	6.2	5.1
KIZZLE (K18-ROE)	6.7	4.2	6.2	5.1
RS1	6.3	4.4	6.0	5.1
DRAGSTER	6.3	4.3	6.2	5.1
BATTLE HAWK (NAI-ROS4)	7.0	4.0	6.3	5.1
GALACTIC (SESCR1)	6.7	4.2	6.2	5.1
PPG-TF 337	7.0	4.1	6.2	5.1
PST-5DZM	6.3	4.3	6.2	5.1
FIREHAWK SLT	6.7	4.2	6.5	5.1
RHL2	6.3	4.3	5.8	5.1
GRAND PRIX (FC15-01P)	6.0	4.3	6.3	5.0
RAPTOR LS (PPG-TF 336)	7.0	4.0	6.5	5.0
DAYBREAK (AH2)	7.0	4.1	6.2	5.0
EXTRAVAGANZA (PST-5MCMO)	6.0	4.2	6.2	5.0
FINELAWN SUPREME (RH3)	6.3	4.1	6.2	5.0
PST-5TRN	6.7	4.1	6.2	5.0
BONFIRE (JS DTT)	7.0	4.1	6.2	5.0
GLX ACED (PST-5DART)	6.0	4.2	6.2	5.0
HEMI	6.0	4.3	6.0	5.0
PPG-TF 312	7.0	4.1	6.3	5.0
SE5STAR	6.3	4.0	6.3	5.0
5LSS	6.3	4.3	5.5	4.9
FIERCE (K18-RS6)	6.0	4.1	6.2	4.9
TITAN MAX (TF456)	6.7	3.9	6.2	4.9
LIFEGUARD	6.7	4.0	6.0	4.9
RDC	7.3	3.8	6.2	4.9
TAR HEEL III (PST-5THM)	6.3	4.0	5.8	4.9
K18-NSE	6.3	4.2	5.7	4.8
MONUMENT (PST-5SQB)	6.0	4.0	6.2	4.8
PRO GOLD	6.0	4.2	5.7	4.8
HELLCAT GLR (PST-5E6)	6.0	4.0	5.8	4.8
SPYDER 2LS (ZRC1)	6.7	3.7	6.2	4.8
MOONDANCE GLX	6.3	3.8	6.0	4.8
KENTUCKY-31	5.3	2.8	4.0	3.5
LSD VALUE	0.8	1.2	0.7	0.8
C.V. (%)	7.4	16.6	6.6	12.0

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

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

TABLE 53.

FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	MI1	NE1	OK1	PA2	MEAN
DLFPS-321/3708	7.0	6.2	7.0	7.5	6.5	6.7	6.7
AST8218LM	7.0	6.1	7.3	6.7	7.0	6.7	6.7
RAD-TF 115 (TURBO SS)	7.0	6.0	7.3	7.3	6.2	7.0	6.6
NAI-FQZ-17	6.7	6.1	6.7	7.3	6.3	7.0	6.6
SETFM2	6.7	5.8	7.7	7.0	6.5	7.3	6.6
AST8118LM	6.3	6.0	7.3	7.0	6.8	6.3	6.6
LAFAYETTE (GO-AOMK)	7.0	6.2	7.0	7.0	6.5	6.3	6.6
SETFM3	7.0	6.1	7.0	6.8	6.3	6.7	6.5
BANDIT	6.7	5.8	7.7	7.0	6.2	7.0	6.5
NATURALLY GREEN	6.7	6.0	6.7	7.2	6.3	7.0	6.5
COPIOUS TF	6.3	6.1	6.7	6.8	6.3	7.0	6.5
ROWDIER (DLFPS-321/3699)	7.3	5.3	7.0	7.2	6.5	7.3	6.5
JT 517	7.0	5.6	7.0	7.0	6.5	7.3	6.5
JT 233	7.0	5.9	7.0	7.2	6.0	6.3	6.4
DLFPS-321/3707	7.0	5.7	7.0	7.2	6.2	6.7	6.4
TRIAD (PPG-TF 323)	7.0	5.6	7.0	7.0	6.2	7.3	6.4
A-TF31	6.7	5.8	6.3	6.8	6.5	7.0	6.4
PST-5DC24	6.7	5.7	7.0	7.2	6.3	6.7	6.4
TANGO	6.7	5.9	7.0	7.0	6.0	6.7	6.4
TD2	7.0	5.6	7.0	7.3	6.0	6.7	6.4
TOPSHELF (BGR-TF3)	6.3	6.1	7.0	6.3	6.5	7.0	6.4
BLADERUNNER 3 (DLFPS-321/3701)	7.0	5.7	7.3	6.8	6.0	7.0	6.4
RAD-TF131	7.3	5.4	6.7	7.0	6.0	7.7	6.4
ATF2116	6.0	5.8	7.0	6.8	6.5	6.7	6.4
AVENGER III (PPG-TF 308)	7.0	5.6	6.7	7.2	6.2	6.7	6.4
HOUNDG NINE (DLFPS-321/3702)	7.7	5.8	7.0	7.0	6.0	6.0	6.4
RAD-TF105	7.0	5.7	6.7	7.2	6.3	6.3	6.4
TITANIUM G-LS (PPG-TF 255)	7.0	5.3	7.0	7.2	6.3	6.7	6.4
BENTLEY (DLFPS-321/3679)	6.3	5.8	7.0	7.2	6.3	6.0	6.4
ATF1768	6.7	5.7	7.0	6.8	6.7	6.0	6.4
DLFPS-321/3695	7.0	5.6	6.7	7.2	6.2	6.7	6.3
BARNOBLE (BAR 9FE MAS)	7.3	5.9	6.3	6.7	6.2	6.7	6.3
ESSENTIAL 2 (DLFPS-TF/3552)	7.0	5.6	6.7	7.0	6.2	6.7	6.3
VALSETZ (PPG-TF 257)	7.0	5.3	7.0	7.0	6.2	7.0	6.3
DLFPS-321/3693	7.3	5.1	7.3	7.5	6.2	6.3	6.3
LBF	6.7	5.8	7.0	6.7	6.5	6.0	6.3
FIRENZA II (PPG-TF 244)	6.7	5.1	7.3	7.3	6.0	7.0	6.3
RACEWAY (DLFPS-321/3696)	7.0	5.4	7.0	6.8	6.3	6.3	6.3
GALLARDO (DLFPS-TF/3550)	7.0	5.2	7.0	7.3	6.0	6.7	6.3
BIRMINGHAM	6.7	5.7	6.7	7.0	6.3	6.0	6.3
BULLSEYE	7.0	5.2	7.3	7.5	6.0	6.0	6.3
FASTLANE (BY-TF-169)	6.7	5.4	7.0	7.0	6.0	6.7	6.3
TANK (PPG-TF 338)	7.0	5.6	6.7	6.7	6.2	7.0	6.3
GALACTIC (SESCR1)	7.0	5.1	7.3	7.5	6.0	6.3	6.3
SOUTHSIDE (PPG-TF 267)	7.0	5.3	7.0	7.2	6.2	6.3	6.3
DLFPS-TF/3553	6.7	5.6	7.0	7.2	6.0	6.0	6.3

TABLE 53.  
(CONT'D)

FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	MI1	NE1	OK1	PA2	MEAN
RC4	7.0	5.3	7.0	7.0	6.0	6.7	6.3
PARAMOUNT	7.0	5.4	6.7	7.3	6.2	6.0	6.3
TOUGH (NAI-TUE)	7.3	5.1	6.7	7.0	6.3	7.0	6.3
BRAVO 2	6.7	5.8	6.7	6.3	6.3	6.7	6.3
XANADU (JT 268 )	7.0	5.3	7.3	6.8	6.0	6.7	6.3
DLFPS-321/3703	6.3	5.3	6.7	7.3	6.3	6.0	6.2
GRANDE 3	7.0	4.9	7.3	7.2	6.3	6.7	6.2
OG-WALK	6.3	5.7	6.3	6.5	6.3	7.0	6.2
DLFPS-321/3694	6.7	5.1	7.3	7.0	6.2	6.7	6.2
NAI-ST5	7.0	5.1	6.7	7.0	6.2	7.3	6.2
PALOMAR	6.7	5.6	6.7	7.0	6.2	6.0	6.2
PPG-TF 318	7.0	5.3	6.7	7.2	6.2	6.3	6.2
ROVER (PPG-TF 306)	7.0	5.4	7.0	6.8	6.0	6.3	6.2
KIZZLE (K18-ROE)	7.0	5.2	7.0	7.0	6.2	6.3	6.2
RHL2	7.0	5.1	6.7	7.2	6.2	6.7	6.2
TEACHER (PPG-TF 313)	7.0	5.1	6.7	7.2	6.0	6.7	6.2
ENDGAME (3N1)	7.0	5.4	7.3	6.3	5.8	7.0	6.2
SYMPHONY (PPG-TF 305)	7.0	5.1	7.0	7.2	6.3	6.0	6.2
CLASH (AH1)	6.7	4.8	7.3	7.5	6.2	6.7	6.2
3B2	7.0	5.3	7.0	6.8	6.0	6.3	6.2
FALCON SUPREME (RH1)	6.7	5.0	7.0	7.5	6.0	6.3	6.2
PPG-TF 249	7.0	5.6	7.3	6.3	6.2	6.3	6.2
EXPANSE (PPG-TF 262)	7.0	5.2	7.0	7.0	6.0	6.3	6.2
PPG-TF 337	7.0	4.9	7.3	7.5	6.0	6.0	6.2
BULLSEYE LTZ	7.0	5.0	7.0	7.2	6.3	6.0	6.2
FIRECRACKER G-LS (PPG-TF 315)	7.0	4.9	7.3	7.2	6.2	6.3	6.2
GEM (PPG-TF 316)	7.0	5.4	7.0	6.5	6.0	6.7	6.2
NT-3	6.7	5.1	6.7	7.0	6.0	7.0	6.2
ZION (BAR TF 134)	7.0	5.2	7.3	7.0	5.8	6.0	6.2
FAYETTE	7.0	5.2	6.7	6.7	6.3	6.7	6.2
GLX ACED (PST-5DART)	6.7	5.3	6.3	7.3	6.0	6.0	6.2
RS1	6.7	5.0	7.0	7.3	6.0	6.3	6.2
DRAGSTER	7.0	5.1	6.7	7.2	6.0	6.3	6.1
PROVIDENCE (GO-RH20)	7.0	5.2	7.3	6.7	6.0	6.3	6.1
TALLADEGA II (NAI-3N2)	7.0	4.9	7.0	7.3	6.0	6.3	6.1
RAPTOR LS (PPG-TF 336)	7.0	4.8	7.0	7.5	6.0	6.3	6.1
DAYBREAK (AH2)	7.0	5.0	7.3	7.0	6.0	6.0	6.1
DEGAS (LTP-TF-111)	7.0	4.8	6.7	7.5	6.2	6.3	6.1
SR 8700 (TMT1)	7.0	5.0	7.3	6.8	6.2	6.3	6.1
BAR FA 8228	6.3	5.3	6.7	6.8	6.3	6.0	6.1
BONFIRE (JS DTT)	6.7	4.9	6.7	7.2	6.3	6.3	6.1
TYCOON (COL-TF-148)	7.0	4.7	7.0	7.5	6.0	6.3	6.1
CAPITAN (DLFPS-321/3705)	7.0	5.0	7.0	7.3	5.8	6.0	6.1
TITAN GLX (TF445)	7.0	5.0	6.7	7.2	6.2	6.0	6.1
DYNAMITE G-LS (PPG-TF 254)	6.7	5.2	6.7	6.8	6.0	6.3	6.1
GLX REVIVE (PST-5GLBS)	7.0	5.1	7.0	6.8	6.0	6.0	6.1
FINELAWN SUPREME (RH3)	6.7	5.1	6.7	7.2	6.0	6.0	6.1

TABLE 53.  
(CONT'D)

FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	IA1	MI1	NE1	OK1	PA2	MEAN
OKEEFE (LTP-TF-122)	7.0	4.9	7.0	7.0	5.8	6.7	6.1
PPG-TF 312	7.0	5.2	6.7	7.0	6.0	5.7	6.1
FIREHAWK SLT	7.0	4.8	7.0	7.5	6.0	5.7	6.1
ESCALADE	6.3	5.3	6.0	7.0	6.0	6.3	6.1
PADRE 2	7.0	5.2	6.7	6.3	6.2	6.7	6.1
STEALTH (PPG-TF 238)	7.0	5.1	6.7	6.7	6.0	6.3	6.1
K18-WB1	7.0	4.9	7.3	6.7	6.0	6.3	6.1
FAIRFIELD (SETF104)	6.7	4.9	6.7	7.0	6.3	6.0	6.0
PST-5MINK	6.3	5.9	6.0	6.2	6.2	6.0	6.0
RAPTOR III	6.7	5.0	6.7	7.0	6.0	6.0	6.0
DLFPS-321/3706	6.7	5.1	6.7	6.8	5.8	6.3	6.0
PST-5DZM	7.0	5.2	6.3	6.7	6.2	6.0	6.0
RHF	6.7	4.8	6.7	7.2	6.2	6.0	6.0
EXTRAVAGANZA (PST-5MCMO)	6.0	5.3	6.3	6.8	6.0	6.0	6.0
PPG-TF 231	7.0	4.8	7.0	6.8	6.0	6.3	6.0
GRAND PRIX (FC15-01P)	6.7	5.3	7.0	6.2	6.0	6.3	6.0
FIERCE (K18-RS6)	7.0	5.0	6.7	6.8	5.7	6.3	6.0
MOONDANCE GLX	6.7	4.8	7.0	7.2	6.0	5.7	6.0
SERENADE (PPG-TF 320)	7.0	4.7	6.3	7.3	6.0	6.0	6.0
BATTLE HAWK (NAI-ROS4)	7.0	4.4	7.0	7.0	6.2	6.3	6.0
GRO-PRO (SE53D2)	6.0	4.9	6.7	7.0	6.2	6.0	6.0
SPYDER 2LS (ZRC1)	7.0	4.3	7.3	7.2	6.0	6.3	6.0
TITAN MAX (TF456)	7.0	4.6	6.3	7.2	6.2	6.3	6.0
SE5STAR	6.3	4.9	6.3	7.2	5.8	6.0	5.9
PST-5GQ	6.3	5.0	6.7	6.8	6.0	5.7	5.9
ESTRENA	6.7	4.6	6.7	6.8	5.8	6.3	5.9
RDC	6.7	4.3	6.7	7.3	5.8	6.3	5.9
K18-NSE	7.0	4.4	6.7	7.7	5.5	5.7	5.9
PST-5TRN	6.3	4.7	6.0	7.2	6.0	6.0	5.9
TAR HEEL III (PST-5THM)	6.7	5.0	6.0	6.7	6.0	5.7	5.8
LIFEGUARD	6.7	4.7	6.7	6.7	6.0	5.7	5.8
BAR-FA8230	6.0	4.9	6.7	6.5	5.8	6.0	5.8
5LSS	6.7	4.3	6.7	7.0	5.7	6.3	5.8
ORIOLE (PST-5BYOB)	6.3	5.0	6.7	6.2	6.0	5.7	5.8
HELLCAT GLR (PST-5E6)	6.3	4.7	6.7	6.5	5.8	5.7	5.7
MONUMENT (PST-5SQB)	6.3	4.3	6.7	7.0	6.0	5.3	5.7
PRO GOLD	6.3	5.1	6.3	6.3	5.7	5.0	5.7
HEMI	6.3	4.6	6.7	6.2	6.2	5.3	5.6
KENTUCKY-31	5.0	3.8	4.0	6.0	4.0	3.0	4.3
LSD VALUE	0.6	1.2	0.8	0.7	0.6	1.1	0.5
C.V. (%)	5.6	14.5	7.5	6.7	5.8	10.3	9.6

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

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

TABLE 54.

FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	GA1	IA1	NC1	NE1	OK1	ON1	OR1	PA2	UT1	MEAN
SOUTHSIDE (PPG-TF 267)	7.0	8.0	7.7	6.0	8.0	6.5	6.2	7.2	3.3	6.0	4.4	5.9
DLFPS-321/3708	7.0	8.3	7.3	6.4	8.0	6.5	6.0	6.5	3.3	5.7	4.7	5.9
AST8218LM	6.3	7.7	8.0	7.1	8.0	6.5	6.3	6.7	3.0	6.3	4.0	5.9
SR 8700 (TMT1)	6.7	7.7	7.0	6.0	8.0	6.5	6.2	6.7	3.3	6.7	4.5	5.9
SETFM2	6.0	8.0	8.0	7.1	7.7	6.5	6.3	6.4	3.0	6.0	4.2	5.9
AST8118LM	6.3	8.0	7.3	7.2	8.0	6.5	6.2	6.5	3.0	6.3	4.1	5.8
PPG-TF 231	6.3	7.3	8.0	5.9	8.0	6.5	6.0	6.9	3.0	6.7	4.4	5.8
DLFPS-321/3693	6.7	7.7	7.3	5.9	8.0	6.5	6.0	6.7	3.0	7.0	4.5	5.8
AVENGER III (PPG-TF 308)	6.3	7.7	7.3	5.9	8.0	6.5	6.0	6.3	4.0	6.7	4.6	5.8
DYNAMITE G-LS (PPG-TF 254)	6.7	8.0	7.3	5.7	8.0	6.5	6.0	6.7	3.7	6.7	4.5	5.8
EXPANSE (PPG-TF 262)	6.3	8.0	7.3	5.4	8.0	6.5	6.0	7.0	3.3	6.7	4.5	5.8
FASTLANE (BY-TF-169)	6.7	8.0	7.7	5.6	8.0	6.5	6.0	6.8	3.3	6.0	4.5	5.8
NAI-ST5	6.0	8.3	8.0	5.4	7.7	6.5	6.2	6.8	3.3	6.0	4.5	5.8
TOUGH (NAI-TUE)	6.7	7.7	7.3	6.1	7.7	6.5	6.2	7.0	3.0	6.3	4.3	5.8
RAD-TF105	6.7	8.3	8.0	6.1	8.0	6.5	6.0	7.0	3.0	6.0	4.1	5.8
TOPSHELF (BGR-TF3)	6.0	8.0	8.0	7.0	7.7	6.7	6.2	6.4	3.3	6.0	3.9	5.8
XANADU (JT 268 )	6.3	8.0	7.3	6.0	8.0	6.5	6.0	6.6	3.0	6.0	4.5	5.8
DLFPS-TF/3553	6.3	8.3	7.0	5.7	8.0	6.3	6.0	6.8	3.7	5.7	4.6	5.8
RHL2	6.3	7.3	7.3	5.1	8.0	6.7	5.7	6.8	3.0	6.7	4.9	5.8
RAD-TF131	7.0	7.7	7.7	7.0	7.7	6.5	5.7	6.6	3.0	6.0	4.1	5.8
BLADERUNNER 3 (DLFPS-321/3701)	6.7	7.0	7.3	6.1	8.0	6.5	6.0	6.5	3.3	6.3	4.5	5.8
TRIAD (PPG-TF 323)	6.3	8.0	7.3	6.0	7.7	6.5	5.8	7.0	2.7	6.0	4.5	5.8
PST-5DC24	6.3	7.7	6.3	7.1	8.0	6.5	6.0	6.5	3.0	6.7	4.1	5.8
TANK (PPG-TF 338)	7.0	8.0	7.3	5.9	8.0	6.5	6.0	6.5	3.3	6.3	4.4	5.8
ROWDIER (DLFPS-321/3699)	7.0	8.0	7.3	6.1	8.0	6.5	6.2	6.7	3.0	5.7	4.4	5.8
JT 517	6.0	7.7	8.0	6.2	7.7	6.5	5.8	6.8	3.3	6.0	4.1	5.8
BANDIT	6.0	8.0	7.3	6.4	8.0	6.5	5.8	6.9	3.3	5.7	4.1	5.8
PST-5MINK	6.3	8.3	7.0	6.9	8.0	6.5	6.0	6.4	3.0	6.3	4.1	5.8
VALSETZ (PPG-TF 257)	6.7	7.7	7.3	5.6	8.0	6.5	6.0	6.8	3.7	5.0	4.5	5.8
RACEWAY (DLFPS-321/3696)	6.3	7.7	8.0	6.1	8.0	6.5	6.0	6.7	3.0	6.0	4.1	5.8
DLFPS-321/3695	6.3	7.3	7.3	5.4	8.0	6.3	5.8	6.9	3.0	6.7	4.5	5.8
COPIOUS TF	6.3	7.3	7.7	6.6	8.0	6.5	6.0	6.6	3.0	6.3	4.1	5.8
ENDGAME (3N1)	6.3	7.7	7.0	5.9	8.0	6.5	6.0	6.9	3.3	5.7	4.3	5.8
FAYETTE	6.3	7.3	7.0	6.0	8.0	6.5	6.2	6.8	3.7	5.7	4.3	5.8
OKEEFE (LTP-TF-122)	6.7	7.7	7.0	5.4	8.0	6.7	5.7	6.8	3.7	6.0	4.4	5.8
NATURALLY GREEN	6.3	7.3	7.3	6.4	8.0	6.5	6.3	6.4	3.7	7.3	4.0	5.8
RAPTOR III	6.7	7.7	7.0	5.7	8.0	6.5	5.7	7.0	3.0	6.7	4.5	5.8
SYMPHONY (PPG-TF 305)	6.7	8.3	7.7	5.4	8.0	6.5	6.2	6.7	3.0	5.7	4.5	5.8
LBF	6.0	7.7	7.7	6.6	7.7	6.7	6.2	6.6	3.0	6.0	4.1	5.8
DLFPS-321/3707	6.7	7.7	7.3	5.9	8.0	6.5	6.0	6.5	3.3	5.7	4.5	5.7
DLFPS-321/3694	6.7	7.7	7.7	5.3	8.0	6.3	6.0	6.8	3.0	7.0	4.5	5.7
BENTLEY (DLFPS-321/3679)	6.3	8.0	7.0	6.6	7.7	6.7	6.2	6.5	3.0	6.0	4.1	5.7
RAD-TF 115 (TURBO SS)	6.3	8.0	7.0	6.9	8.0	6.5	6.0	6.5	3.0	5.0	4.3	5.7
JT 233	6.3	8.0	7.3	6.3	8.0	6.5	6.0	6.4	3.0	6.0	4.2	5.7
BONFIRE (JS DTT)	6.7	7.7	7.7	5.1	8.0	6.5	5.8	6.7	3.0	5.7	4.6	5.7
GRANDE 3	6.0	7.3	7.3	5.8	7.7	6.5	5.8	6.8	3.7	5.7	4.4	5.7

TABLE 54.  
(CONT'D)

FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	CT1	DE1	GA1	IA1	NC1	NE1	OK1	ON1	OR1	PA2	UT1	MEAN
SERENADE (PPG-TF 320)	6.7	7.7	7.7	5.1	8.0	6.5	6.0	6.8	3.3	6.7	4.3	5.7
K18-WB1	6.3	8.0	7.3	5.1	8.0	6.5	6.0	6.7	3.0	6.7	4.7	5.7
DLFPS-321/3703	6.3	8.0	7.3	5.9	8.0	6.5	5.8	6.5	3.0	6.3	4.5	5.7
PROVIDENCE (GO-RH20)	6.7	7.3	7.3	5.3	8.0	6.5	6.0	6.8	3.3	6.3	4.5	5.7
PPG-TF 249	6.3	8.0	7.0	5.4	7.7	6.5	6.0	6.7	3.7	6.0	4.4	5.7
ESSENTIAL 2 (DLFPS-TF/3552)	6.0	8.3	7.7	5.2	8.0	6.5	6.0	6.6	3.7	6.0	4.5	5.7
3B2	6.7	8.0	6.7	5.9	8.0	6.5	5.8	6.8	3.3	6.0	4.2	5.7
BIRMINGHAM	6.0	7.0	7.7	6.7	7.7	6.5	6.0	6.4	3.0	6.0	4.1	5.7
FIRECRACKER G-LS (PPG-TF 315)	7.0	7.7	7.7	5.2	7.7	6.5	5.8	6.8	3.0	5.7	4.6	5.7
HOUND OG NINE (DLFPS-321/3702)	6.0	8.0	7.3	5.7	8.0	6.2	6.2	6.6	3.7	5.7	4.4	5.7
GEM (PPG-TF 316)	6.3	8.0	7.0	5.6	8.0	6.5	6.2	6.8	2.7	6.3	4.5	5.7
TD2	6.3	8.7	7.3	5.7	8.0	6.7	5.8	6.3	3.0	6.3	4.5	5.7
TYCOON (COL-TF-148)	6.3	8.0	7.3	5.2	8.0	6.7	6.0	6.8	4.0	6.0	4.1	5.7
NT-3	6.0	8.3	7.3	5.4	8.0	6.3	6.0	6.6	3.0	6.7	4.4	5.7
PPG-TF 318	6.7	8.0	7.0	5.7	8.0	6.5	6.0	6.7	3.0	6.3	4.3	5.7
GALACTIC (SESCR1)	6.3	7.7	7.3	4.8	8.0	6.5	5.8	6.7	3.7	6.0	4.7	5.7
CLASH (AH1)	7.0	8.0	7.3	4.6	8.0	6.5	5.8	7.2	3.3	5.3	4.5	5.7
SPYDER 2LS (ZRC1)	6.7	7.7	7.0	4.4	8.0	6.5	6.0	7.2	3.3	6.3	4.5	5.7
FIREHAWK SLT	6.3	8.0	7.7	4.9	8.0	6.5	5.8	6.8	3.3	6.3	4.4	5.7
NAI-FQZ-17	6.3	8.0	7.3	6.3	8.0	6.5	5.8	6.7	3.0	5.7	4.0	5.7
ZION (BAR TF 134)	6.3	7.7	7.3	5.1	8.0	6.5	6.0	6.6	3.0	6.7	4.5	5.7
CAPITAN (DLFPS-321/3705)	7.0	7.3	7.3	4.8	8.0	6.5	6.0	6.8	3.3	5.7	4.6	5.7
DRAGSTER	6.3	7.3	7.7	4.7	8.0	6.5	6.0	6.8	3.7	6.3	4.5	5.7
TITANIUM G-LS (PPG-TF 255)	6.7	8.0	7.0	5.4	8.0	6.5	6.3	6.7	3.0	6.0	4.3	5.7
PARAMOUNT	6.3	7.7	6.7	5.6	7.7	6.3	6.0	6.8	3.3	6.7	4.3	5.7
PPG-TF 337	6.3	8.0	7.7	4.9	8.0	6.5	6.0	6.8	3.3	5.0	4.5	5.7
RS1	6.0	8.0	7.0	5.2	7.7	6.3	6.0	6.8	3.0	5.7	4.5	5.7
BRAVO 2	6.0	7.7	8.0	6.4	8.0	6.5	5.8	6.3	3.0	5.7	4.1	5.7
SETFM3	6.3	7.7	6.3	6.2	8.0	6.5	6.0	6.4	3.0	6.3	4.2	5.7
TANGO	6.0	7.3	7.3	6.1	8.0	6.5	6.0	6.7	3.0	5.7	4.1	5.7
TEACHER (PPG-TF 313)	6.3	7.0	7.0	4.4	8.0	6.5	6.0	7.2	3.7	6.0	4.5	5.7
GALLARDO (DLFPS-TF/3550)	6.0	7.7	7.3	5.2	8.0	6.5	6.2	6.9	3.0	6.3	4.2	5.6
KIZZLE (K18-ROE)	6.0	8.0	7.0	5.1	8.0	6.5	5.8	6.6	3.3	6.3	4.4	5.6
FAIRFIELD (SETF104)	6.3	8.0	7.3	6.3	8.0	6.5	5.8	6.2	3.0	6.0	4.1	5.6
BULLSEYE LTZ	6.7	7.7	7.0	5.3	8.0	6.5	6.0	6.6	3.3	6.0	4.2	5.6
FIRENZA II (PPG-TF 244)	6.3	8.3	7.0	5.2	8.0	6.5	6.0	6.3	3.7	5.7	4.5	5.6
STEALTH (PPG-TF 238)	7.0	7.3	7.7	5.6	8.0	6.5	6.2	6.6	3.0	6.3	4.1	5.6
ATF2116	6.0	7.3	8.0	6.8	8.0	6.5	6.2	6.1	3.0	5.7	3.8	5.6
DLFPS-321/3706	6.7	7.3	7.0	4.7	8.0	6.5	6.0	6.8	3.3	6.0	4.5	5.6
DAYBREAK (AH2)	6.3	8.0	7.0	4.6	8.0	6.5	6.0	6.7	3.3	6.0	4.6	5.6
FALCON SUPREME (RH1)	6.0	8.0	7.0	4.8	8.0	6.5	6.0	6.6	3.0	6.7	4.5	5.6
MOONDANCE GLX	6.7	7.3	7.0	5.3	8.0	6.5	6.0	6.6	3.7	5.7	4.1	5.6
RC4	6.7	7.7	7.3	5.1	8.0	6.5	6.0	6.2	3.0	6.3	4.6	5.6
TALLADEGA II (NAI-3N2)	6.0	7.7	7.7	5.0	8.0	6.5	5.8	6.8	3.3	6.0	4.3	5.6
BATTLE HAWK (NAI-ROS4)	6.3	8.0	7.0	4.3	8.0	6.5	5.8	6.9	3.3	6.7	4.5	5.6
PADRE 2	6.0	7.3	7.0	6.0	8.0	6.5	5.8	6.3	3.3	6.0	4.1	5.6
PST-5GQ	6.0	7.7	7.0	5.8	8.0	6.5	5.8	6.5	3.3	5.7	4.1	5.6

TABLE 54.  
(CONT'D)

FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

NAME	FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/											MEAN
	CT1	DE1	GA1	IA1	NC1	NE1	OK1	ON1	OR1	PA2	UT1	
ROVER (PPG-TF 306)	6.7	7.3	7.0	5.4	8.0	6.5	6.0	6.7	3.3	5.7	4.1	5.6
BULLSEYE	6.7	7.0	7.3	5.0	8.0	6.5	6.0	6.7	3.3	6.0	4.3	5.6
LAFAYETTE (GO-AOMK)	6.0	8.0	7.7	6.7	8.0	6.2	6.0	6.2	3.3	6.0	3.8	5.6
PST-5DZM	6.7	7.7	7.3	5.9	8.0	6.5	5.8	6.3	3.0	5.7	4.1	5.6
TITAN GLX (TF445)	6.7	8.0	7.3	5.2	8.0	6.5	5.8	6.3	3.3	6.0	4.2	5.6
OG-WALK	6.3	6.7	7.0	7.0	7.3	6.5	5.8	6.5	3.3	6.0	3.5	5.6
FINELAWN SUPREME (RH3)	6.3	7.3	6.7	4.9	8.0	6.5	5.8	6.4	3.7	6.0	4.6	5.6
RAPTOR LS (PPG-TF 336)	6.3	7.7	7.7	5.1	8.0	6.5	6.0	6.3	3.0	6.0	4.5	5.6
BARNOBLE (BAR 9FE MAS)	6.7	7.3	7.0	6.0	7.7	6.5	6.0	6.2	3.0	6.0	4.1	5.6
DEGAS (LTP-TF-111)	6.3	7.0	6.3	4.9	8.0	6.5	5.8	6.3	3.7	5.7	4.5	5.6
RHF	6.3	7.3	7.0	4.9	8.0	6.2	5.7	6.7	3.0	5.7	4.5	5.6
A-TF31	6.3	8.0	7.7	6.7	8.0	6.5	6.0	6.1	3.0	5.7	3.7	5.5
LIFEGUARD	6.0	7.3	7.0	4.8	7.7	6.5	5.7	6.8	3.0	6.3	4.3	5.5
TITAN MAX (TF456)	6.3	8.0	7.0	4.2	8.0	6.5	5.8	6.8	3.0	6.3	4.3	5.5
GLX ACED (PST-5DART)	6.0	7.3	6.7	5.9	8.0	6.5	5.7	6.4	2.7	6.3	4.0	5.5
TAR HEEL III (PST-5THM)	6.3	7.7	7.0	5.6	8.0	6.5	5.7	6.6	3.0	6.0	3.9	5.5
K18-NSE	6.0	7.0	7.0	3.6	8.0	6.5	5.8	6.7	3.3	7.0	4.6	5.5
GLX REVIVE (PST-5GLBS)	6.3	7.3	7.0	5.4	8.0	6.5	6.0	6.3	3.0	6.0	4.0	5.5
FIERCE (K18-RS6)	6.0	7.7	7.0	4.7	7.3	6.3	5.7	6.8	3.0	5.7	4.5	5.5
RDC	6.3	8.0	6.0	4.4	7.7	6.5	5.8	6.6	3.3	6.7	4.4	5.5
BAR-FA8230	6.3	7.7	6.7	5.2	8.0	6.5	6.0	6.8	3.0	5.7	3.9	5.5
BAR FA 8228	6.3	7.3	7.0	6.3	8.0	6.5	5.8	6.2	3.3	6.0	3.5	5.5
ATF1768	6.0	8.0	7.0	6.1	8.0	6.2	6.0	6.5	3.0	5.7	3.5	5.5
HEMI	6.0	7.3	7.3	5.2	8.0	6.5	5.8	6.3	3.0	6.3	4.1	5.5
ESCALADE	6.0	7.3	6.0	5.8	8.0	6.5	5.8	6.2	3.0	6.7	4.0	5.5
PST-5TRN	6.0	7.0	7.0	5.1	8.0	6.5	5.8	6.6	3.3	5.7	3.9	5.5
ORIOLE (PST-5BYOB)	6.0	7.7	7.0	5.4	8.0	6.5	5.8	6.3	3.0	6.7	3.9	5.5
PPG-TF 312	6.7	7.3	7.0	4.0	8.0	6.5	5.5	6.3	3.0	6.7	4.7	5.5
PALOMAR	6.0	7.3	7.3	6.0	8.0	6.5	5.5	6.6	3.0	6.0	3.5	5.5
ESTRENA	6.0	7.0	5.7	4.8	8.0	6.2	5.8	6.8	3.0	6.3	4.3	5.5
GRAND PRIX (FC15-01P)	6.0	8.0	7.7	5.9	8.0	6.5	5.7	5.9	3.0	6.0	3.7	5.4
MONUMENT (PST-5SQB)	6.3	7.7	6.0	5.6	8.0	6.3	6.0	6.0	3.0	6.3	3.9	5.4
SE5STAR	6.3	7.7	7.0	5.7	8.0	6.5	5.5	6.1	3.0	6.0	3.6	5.4
PRO GOLD	6.0	7.0	7.3	5.4	8.0	6.5	5.3	5.8	3.3	6.0	4.0	5.4
EXTRAVAGANZA (PST-5MCMO)	6.0	7.0	6.7	5.2	8.0	6.5	5.7	6.2	3.0	6.0	3.9	5.4
GRO-PRO (SE53D2)	6.3	7.0	7.3	5.6	7.7	6.5	5.7	5.9	3.0	5.7	3.6	5.3
HELLCAT GLR (PST-5E6)	6.0	7.3	7.0	4.6	8.0	6.5	5.7	6.3	3.3	5.7	3.9	5.3
5LSS	6.0	7.0	7.0	4.1	7.0	6.5	5.5	6.0	3.3	4.7	4.7	5.3
KENTUCKY-31	4.3	4.3	5.0	4.4	6.7	6.5	4.3	4.6	3.3	6.3	2.7	4.4
LSD VALUE	0.7	0.9	0.9	1.5	0.5	0.3	0.6	1.2	0.9	1.0	0.8	0.4
C.V. (%)	7.3	6.9	8.0	17.1	3.7	2.9	6.3	11.1	18.0	10.3	11.1	10.1

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

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



TABLE 55.

FALL COLOR (DECEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	GA1	OK1	MEAN
AST8218LM	7.7	5.7	6.7
NAI-ST5	7.7	5.7	6.7
DRAGSTER	7.3	6.0	6.7
RAD-TF105	7.3	6.0	6.7
SOUTHSIDE (PPG-TF 267)	7.3	6.0	6.7
BRAVO 2	7.0	6.0	6.5
CAPITAN (DLFPS-321/3705)	7.0	6.0	6.5
COPIOUS TF	7.0	6.0	6.5
DAYBREAK (AH2)	7.0	6.0	6.5
DLFPS-321/3706	7.0	6.0	6.5
DLFPS-321/3707	7.0	6.0	6.5
DYNAMITE G-LS (PPG-TF 254)	7.0	6.0	6.5
FASTLANE (BY-TF-169)	7.0	6.0	6.5
FIRECRACKER G-LS (PPG-TF 315)	7.0	6.0	6.5
FIREHAWK SLT	7.0	6.0	6.5
GALLARDO (DLFPS-TF/3550)	7.0	6.0	6.5
GRANDE 3	7.0	6.0	6.5
ORIOLE (PST-5BYOB)	7.3	5.7	6.5
PPG-TF 231	7.0	6.0	6.5
RACEWAY (DLFPS-321/3696)	7.0	6.0	6.5
RAD-TF131	7.3	5.7	6.5
TALLADEGA II (NAI-3N2)	7.3	5.7	6.5
3B2	6.7	6.0	6.3
5LSS	7.0	5.7	6.3
ATF2116	7.0	5.7	6.3
BENTLEY (DLFPS-321/3679)	7.0	5.7	6.3
BONFIRE (JS DTT)	6.7	6.0	6.3
DLFPS-321/3693	6.7	6.0	6.3
DLFPS-TF/3553	6.7	6.0	6.3
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	6.0	6.3
EXPANSE (PPG-TF 262)	7.0	5.7	6.3
FALCON SUPREME (RH1)	6.7	6.0	6.3
GALACTIC (SESCR1)	6.7	6.0	6.3
GEM (PPG-TF 316)	6.7	6.0	6.3
HOUND OG NINE (DLFPS-321/3702)	6.7	6.0	6.3
K18-WB1	6.7	6.0	6.3
LIFEGUARD	7.0	5.7	6.3
NAI-FQZ-17	6.7	6.0	6.3
OKEEFE (LTP-TF-122)	6.7	6.0	6.3
PADRE 2	7.0	5.7	6.3
PROVIDENCE (GO-RH20)	6.7	6.0	6.3
RAPTOR LS (PPG-TF 336)	6.7	6.0	6.3
RC4	6.7	6.0	6.3
STEALTH (PPG-TF 238)	6.7	6.0	6.3
SYMPHONY (PPG-TF 305)	6.7	6.0	6.3
TD2	6.7	6.0	6.3

TABLE 55.  
(CONT'D)

FALL COLOR (DECEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	GA1	OK1	MEAN
TYCOON (COL-TF-148)	6.7	6.0	6.3
VALSETZ (PPG-TF 257)	6.7	6.0	6.3
XANADU (JT 268 )	6.7	6.0	6.3
JT 517	6.5	6.0	6.3
AST8118LM	6.7	5.7	6.2
BIRMINGHAM	6.7	5.7	6.2
BULLSEYE	6.7	5.7	6.2
FIRENZA II (PPG-TF 244)	6.7	5.7	6.2
K18-NSE	6.7	5.7	6.2
LBF	6.7	5.7	6.2
MOONDANCE GLX	6.7	5.7	6.2
RHL2	6.7	5.7	6.2
RS1	6.7	5.7	6.2
SETFM2	6.7	5.7	6.2
SPYDER 2LS (ZRC1)	6.7	5.7	6.2
TITAN GLX (TF445)	6.7	5.7	6.2
TOUGH (NAI-TUE)	6.7	5.7	6.2
A-TF31	6.3	6.0	6.2
AVENGER III (PPG-TF 308)	6.3	6.0	6.2
BANDIT	6.3	6.0	6.2
BAR-FA8230	6.3	6.0	6.2
BLADERUNNER 3 (DLFPS-321/3701)	6.3	6.0	6.2
BULLSEYE LTZ	6.3	6.0	6.2
CLASH (AH1)	6.3	6.0	6.2
DEGAS (LTP-TF-111)	6.3	6.0	6.2
DLFPS-321/3694	7.0	5.3	6.2
DLFPS-321/3703	6.3	6.0	6.2
DLFPS-321/3708	6.3	6.0	6.2
ENDGAME (3N1)	6.3	6.0	6.2
FINELAWN SUPREME (RH3)	6.3	6.0	6.2
KIZZLE (K18-ROE)	6.3	6.0	6.2
PPG-TF 318	6.3	6.0	6.2
PRO GOLD	7.0	5.3	6.2
PST-5DZM	7.0	5.3	6.2
PST-5TRN	6.3	6.0	6.2
RDC	6.3	6.0	6.2
ROVER (PPG-TF 306)	6.3	6.0	6.2
ROWDIER (DLFPS-321/3699)	6.3	6.0	6.2
SETFM3	6.3	6.0	6.2
SR 8700 (TMT1)	6.3	6.0	6.2
TITANIUM G-LS (PPG-TF 255)	6.3	6.0	6.2
TRIAD (PPG-TF 323)	7.0	5.3	6.2
ZION (BAR TF 134)	6.3	6.0	6.2
BATTLE HAWK (NAI-ROS4)	6.3	5.7	6.0
ESTRENA	6.0	6.0	6.0
FAYETTE	6.0	6.0	6.0
GRAND PRIX (FC15-01P)	6.7	5.3	6.0

TABLE 55.  
(CONT'D)

FALL COLOR (DECEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

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

NAME	GA1	OK1	MEAN
GRO-PRO (SE53D2)	6.7	5.3	6.0
JT 233	6.3	5.7	6.0
LAFAYETTE (GO-AOMK)	7.0	5.0	6.0
NATURALLY GREEN	6.7	5.3	6.0
OG-WALK	6.7	5.3	6.0
PALOMAR	6.7	5.3	6.0
PARAMOUNT	6.3	5.7	6.0
PPG-TF 312	6.7	5.3	6.0
PPG-TF 337	6.3	5.7	6.0
PST-5GQ	6.3	5.7	6.0
SERENADE (PPG-TF 320)	6.7	5.3	6.0
TANGO	6.7	5.3	6.0
TEACHER (PPG-TF 313)	6.7	5.3	6.0
TITAN MAX (TF456)	6.0	6.0	6.0
TOPSHELF (BGR-TF3)	6.7	5.3	6.0
DLFPS-321/3695	6.0	5.7	5.8
FIERCE (K18-RS6)	6.0	5.7	5.8
GLX ACED (PST-5DART)	6.0	5.7	5.8
PPG-TF 249	6.0	5.7	5.8
RHF	6.7	5.0	5.8
TANK (PPG-TF 338)	6.7	5.0	5.8
EXTRAVAGANZA (PST-5MCMO)	6.3	5.3	5.8
FAIRFIELD (SETF104)	6.3	5.3	5.8
GLX REVIVE (PST-5GLBS)	6.3	5.3	5.8
HEMI	6.3	5.3	5.8
MONUMENT (PST-5SQB)	6.3	5.3	5.8
NT-3	6.3	5.3	5.8
RAD-TF 115 (TURBO SS)	6.3	5.3	5.8
TAR HEEL III (PST-5THM)	6.3	5.3	5.8
ESCALADE	5.7	5.7	5.7
PST-5DC24	5.7	5.7	5.7
ATF1768	6.0	5.3	5.7
BARNOBLE (BAR 9FE MAS)	6.3	5.0	5.7
HELLCAT GLR (PST-5E6)	6.0	5.3	5.7
PST-5MINK	6.3	5.0	5.7
RAPTOR III	6.3	5.0	5.7
BAR FA 8228	6.0	4.7	5.3
SE5STAR	5.7	5.0	5.3
KENTUCKY-31	5.7	3.0	4.3
LSD VALUE	1.1	0.7	0.9
C.V. (%)	9.9	8.1	9.0

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 56. PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/  
2019 DATA 2/

NAME	DE1	MI1	MS1	NC1	NJ1	NJ2	OR1	PA2	MEAN
KENTUCKY-31	83.3	90.7	61.7	66.7	97.7	57.7	13.7	86.7	69.8
SR 8700 (TMT1)	78.3	93.0	61.7	46.7	80.0	77.0	12.7	86.7	67.0
DAYBREAK (AH2)	80.0	93.0	43.3	50.0	85.0	78.7	14.0	90.0	66.8
BONFIRE (JS DTT)	80.0	90.7	58.3	46.7	75.0	76.0	12.0	86.7	65.7
CLASH (AH1)	70.0	93.3	63.3	46.7	75.0	70.3	13.7	90.0	65.3
RDC	75.0	90.0	48.3	50.0	80.0	71.0	11.3	90.0	64.5
LIFEGUARD	68.3	91.0	51.7	51.7	86.7	63.7	13.0	83.3	63.7
NATURALLY GREEN	70.0	88.7	53.3	56.7	73.3	66.0	10.7	90.0	63.6
FALCON SUPREME (RH1)	73.3	95.0	53.3	53.3	70.0	58.7	11.7	90.0	63.2
TANK (PPG-TF 338)	75.0	87.3	46.7	45.0	80.0	68.0	11.3	90.0	62.9
FIERCE (K18-RS6)	71.7	90.0	50.0	48.3	75.0	66.0	12.0	90.0	62.9
TD2	75.0	91.0	51.7	45.0	78.3	61.3	10.7	90.0	62.9
RAPTOR LS (PPG-TF 336)	73.3	88.3	48.3	46.7	76.7	65.3	13.3	90.0	62.8
DLFPS-321/3694	75.0	94.3	45.0	48.3	73.3	66.0	10.0	90.0	62.8
DLFPS-321/3695	73.3	90.0	43.3	46.7	80.0	65.3	13.3	90.0	62.8
TOPSHELF (BGR-TF3)	71.7	94.0	56.7	45.0	70.0	60.3	13.0	90.0	62.6
ORIOLE (PST-5BYOB)	70.0	89.3	43.3	50.0	81.7	64.3	12.0	90.0	62.6
ROWDIER (DLFPS-321/3699)	76.7	93.3	38.3	51.7	70.0	71.3	10.7	86.7	62.3
5LSS	75.0	91.7	45.0	46.7	70.0	67.0	13.0	90.0	62.3
STEALTH (PPG-TF 238)	71.7	92.3	50.0	48.3	80.0	58.7	10.0	86.7	62.2
DYNAMITE G-LS (PPG-TF 254)	75.0	89.7	46.7	50.0	65.0	70.3	10.7	90.0	62.2
BIRMINGHAM	70.0	92.3	45.0	48.3	80.0	59.7	12.0	90.0	62.2
GRANDE 3	66.7	91.7	43.3	50.0	71.7	69.7	14.0	90.0	62.1
PPG-TF 249	71.7	91.7	50.0	46.7	68.3	69.3	12.7	86.7	62.1
GLX REVIVE (PST-5GLBS)	76.7	91.7	51.7	48.3	71.7	58.7	10.7	86.7	62.0
RS1	73.3	93.3	46.7	45.0	71.7	65.3	13.3	86.7	61.9
TITAN GLX (TF445)	71.7	91.7	41.7	55.0	76.7	62.7	12.0	83.3	61.8
AVENGER III (PPG-TF 308)	75.0	90.7	45.0	48.3	66.7	68.3	13.0	86.7	61.7
GLX ACED (PST-5DART)	70.0	90.7	41.7	45.0	73.3	70.3	11.3	90.0	61.5
TOUGH (NAI-TUE)	73.3	90.7	43.3	50.0	68.3	65.3	10.7	90.0	61.5
LBF	73.3	92.7	50.0	46.7	70.0	56.3	12.0	90.0	61.4
TALLADEGA II (NAI-3N2)	70.0	91.0	43.3	45.0	70.0	69.3	12.0	90.0	61.3
RACEWAY (DLFPS-321/3696)	71.7	89.3	38.3	46.7	73.3	71.0	9.3	90.0	61.2
BULLSEYE LTZ	73.3	91.0	40.0	43.3	76.7	62.7	12.0	90.0	61.1
K18-NSE	73.3	89.0	38.3	51.7	80.0	56.0	10.7	90.0	61.1
FINELAWN SUPREME (RH3)	76.7	92.3	36.7	43.3	76.7	60.3	13.0	90.0	61.1
RHL2	66.7	94.7	45.0	51.7	75.0	56.0	10.0	90.0	61.1
COPIOUS TF	70.0	89.0	46.7	46.7	71.7	67.7	13.7	83.3	61.1
PRO GOLD	75.0	93.3	41.7	43.3	73.3	67.0	11.3	83.3	61.0
ESTRENA	68.3	90.0	51.7	46.7	78.3	51.7	11.3	90.0	61.0
PPG-TF 318	70.0	91.7	50.0	48.3	65.0	62.7	10.0	90.0	61.0
PPG-TF 231	70.0	91.3	45.0	50.0	66.7	62.7	14.3	86.7	60.8
HEMI	68.3	93.0	41.7	46.7	80.0	56.3	10.7	90.0	60.8
MONUMENT (PST-5SQB)	70.0	96.3	31.7	48.3	85.0	61.7	9.7	83.3	60.8
DLFPS-321/3693	68.3	93.3	38.3	45.0	65.0	74.3	11.3	90.0	60.7
SPYDER 2LS (ZRC1)	73.3	90.3	36.7	50.0	63.3	69.3	12.7	90.0	60.7
K18-WB1	71.7	94.0	48.3	45.0	76.7	52.7	12.7	83.3	60.5
SERENADE (PPG-TF 320)	71.7	90.7	40.0	45.0	78.3	59.3	9.3	90.0	60.5
GEM (PPG-TF 316)	66.7	90.3	46.7	46.7	71.7	60.3	11.3	90.0	60.5

TABLE 56. PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) 2019 DATA 2/

NAME	DE1	MI1	MS1	NC1	NJ1	NJ2	OR1	PA2	MEAN
PPG-TF 337	76.7	90.0	41.7	50.0	60.0	61.0	13.7	90.0	60.4
PROVIDENCE (GO-RH20)	73.3	90.0	40.0	45.0	71.7	58.3	12.7	90.0	60.1
TITANIUM G-LS (PPG-TF 255)	65.0	94.3	43.3	46.7	68.3	65.0	8.3	90.0	60.1
TITAN MAX (TF456)	68.3	89.3	38.3	46.7	71.7	66.0	10.0	90.0	60.0
RHF	68.3	91.7	43.3	43.3	65.0	67.0	10.7	90.0	59.9
TAR HEEL III (PST-5THM)	68.3	90.7	43.3	51.7	70.0	63.3	11.7	80.0	59.9
KIZZLE (K18-ROE)	73.3	90.0	35.0	50.0	80.0	57.0	10.0	83.3	59.8
ATF1768	66.7	91.7	45.0	46.7	63.3	62.0	13.0	90.0	59.8
NAI-ST5	68.3	91.3	41.7	50.0	76.7	59.3	10.7	80.0	59.8
BANDIT	78.3	91.0	41.7	45.0	61.7	59.7	10.0	90.0	59.7
SYMPHONY (PPG-TF 305)	71.7	89.3	45.0	40.0	75.0	60.3	12.0	83.3	59.6
DLFPS-321/3707	71.7	91.7	43.3	48.3	66.7	58.0	10.0	86.7	59.5
BENTLEY (DLFPS-321/3679)	68.3	91.7	50.0	41.7	66.7	58.7	8.7	90.0	59.5
FAYETTE	78.3	91.7	35.0	50.0	71.7	54.7	10.7	83.3	59.4
BRAVO 2	70.0	92.0	43.3	46.7	70.0	58.7	10.7	83.3	59.3
ROVER (PPG-TF 306)	71.7	90.3	33.3	51.7	65.0	60.0	12.7	90.0	59.3
BULLSEYE	73.3	89.7	38.3	45.0	78.3	53.7	12.0	83.3	59.2
RAD-TF105	71.7	88.3	48.3	40.0	73.3	50.0	12.0	90.0	59.2
FIRENZA II (PPG-TF 244)	65.0	93.0	38.3	50.0	70.0	62.7	10.0	83.3	59.0
SE5STAR	71.7	92.0	50.0	48.3	66.7	54.3	8.0	80.0	58.9
ESCALADE	71.7	90.0	36.7	46.7	68.3	54.3	12.7	90.0	58.8
XANADU (JT 268)	68.3	89.3	35.0	50.0	66.7	59.3	11.3	90.0	58.8
VALSETZ (PPG-TF 257)	68.3	92.3	43.3	41.7	60.0	62.0	11.3	90.0	58.6
PADRE 2	73.3	89.3	33.3	45.0	68.3	62.7	10.0	86.7	58.6
RC4	75.0	90.0	36.7	43.3	66.7	59.3	10.7	86.7	58.5
SOUTHSIDE (PPG-TF 267)	63.3	92.0	45.0	43.3	66.7	57.0	10.0	90.0	58.4
NT-3	73.3	90.0	35.0	51.7	68.3	53.7	11.3	83.3	58.3
EXTRAVAGANZA (PST-5MCMO)	81.7	89.3	31.7	48.3	61.7	61.7	12.0	80.0	58.3
AST8218LM	68.3	90.7	38.3	43.3	65.0	59.7	10.7	90.0	58.3
GALLARDO (DLFPS-TF/3550)	68.3	92.0	35.0	41.7	68.3	59.3	11.3	90.0	58.3
TEACHER (PPG-TF 313)	66.7	90.0	40.0	41.7	70.0	62.0	8.7	86.7	58.2
DLFPS-TF/3553	70.0	86.0	40.0	45.0	66.7	60.3	10.7	86.7	58.2
BARNOBLE (BAR 9FE MAS)	70.0	90.7	41.7	41.7	56.7	67.7	10.0	86.7	58.1
TANGO	70.0	87.0	38.3	48.3	70.0	52.7	11.3	86.7	58.0
FIRECRACKER G-LS (PPG-TF 315)	65.0	89.3	40.0	41.7	63.3	63.7	11.3	90.0	58.0
AST8118LM	65.0	88.3	48.3	38.3	56.7	68.0	9.3	90.0	58.0
ATF2116	71.7	90.0	41.7	46.7	70.0	50.0	10.7	83.3	58.0
JT 517	68.3	90.0	40.0	48.3	65.0	52.0	10.0	90.0	58.0
FIREHAWK SLT	73.3	91.7	26.7	45.0	75.0	49.3	12.0	90.0	57.9
JT 233	66.7	89.0	36.7	46.7	61.7	62.7	9.3	90.0	57.8
PST-5TRN	68.3	92.7	35.0	41.7	63.3	61.0	10.7	90.0	57.8
TYCOON (COL-TF-148)	73.3	90.7	31.7	45.0	66.7	63.7	7.3	83.3	57.7
HELLCAT GLR (PST-5E6)	80.0	91.3	36.7	46.7	53.3	52.0	11.3	90.0	57.7
GALACTIC (SESCR1)	66.7	91.7	48.3	46.7	58.3	47.0	12.0	90.0	57.6
BAR FA 8228	75.0	90.0	26.7	48.3	73.3	51.0	9.3	86.7	57.5
RAPTOR III	70.0	90.7	40.0	45.0	61.7	58.3	11.3	83.3	57.5
EXPANSE (PPG-TF 262)	70.0	87.3	43.3	48.3	61.7	51.3	11.3	86.7	57.5
PALOMAR	70.0	90.7	35.0	45.0	55.0	67.0	9.3	86.7	57.3
RAD-TF 115 (TURBO SS)	70.0	90.7	31.7	40.0	76.7	53.0	10.0	86.7	57.3

TABLE 56. PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/  
(CONT'D) 2019 DATA 2/

NAME	DE1	MI1	MS1	NC1	NJ1	NJ2	OR1	PA2	MEAN
PST-5GQ	75.0	91.7	36.7	38.3	60.0	56.0	10.7	90.0	57.3
GRO-PRO (SE53D2)	71.7	89.0	41.7	45.0	55.0	58.0	10.0	86.7	57.1
CAPITAN (DLFPS-321/3705)	61.7	91.7	38.3	50.0	55.0	67.0	10.0	83.3	57.1
BATTLE HAWK (NAI-ROS4)	66.7	91.0	38.3	46.7	60.0	59.3	11.3	83.3	57.1
DLFPS-TF/3552	70.0	90.7	31.7	46.7	55.0	62.0	10.3	90.0	57.0
MOONDANCE GLX	68.3	92.0	35.0	45.0	63.3	67.7	8.3	76.7	57.0
DLFPS-321/3706	71.7	90.7	43.3	43.3	56.7	49.7	10.7	90.0	57.0
DLFPS-321/3708	68.3	89.3	40.0	43.3	55.0	60.3	8.7	90.0	56.9
NAI-FQZ-17	75.0	89.0	28.3	38.3	66.7	56.7	10.7	90.0	56.8
BAR-FA8230	66.7	88.0	31.7	43.3	70.0	61.0	10.7	83.3	56.8
FAIRFIELD (SETF104)	71.7	86.7	43.3	38.3	66.7	48.7	11.3	86.7	56.7
A-TF31	65.0	90.0	33.3	43.3	58.3	66.3	10.0	86.7	56.6
DLFPS-321/3703	66.7	89.0	35.0	45.0	65.0	51.7	10.0	90.0	56.5
ZION (BAR TF 134)	65.0	89.3	26.7	41.7	68.3	69.3	8.7	83.3	56.5
RAD-TF131	75.0	90.3	30.0	43.3	70.0	44.3	10.7	86.7	56.3
PARAMOUNT	71.7	90.7	33.3	45.0	51.7	64.3	9.3	83.3	56.2
PPG-TF 312	70.0	91.0	35.0	45.0	58.3	56.0	10.7	83.3	56.2
BLADERUNNER 3 (DLFPS-321/3701)	70.0	90.0	35.0	45.0	56.7	56.0	9.3	86.7	56.1
TRIAD (PPG-TF 323)	70.0	91.3	31.7	41.7	53.3	64.3	7.0	86.7	55.8
DEGAS (LTP-TF-111)	66.7	90.0	38.3	43.3	60.0	58.7	7.7	80.0	55.6
HOUNDG NINE (DLFPS-321/3702)	70.0	90.0	31.7	41.7	65.0	49.7	9.3	86.7	55.5
PST-5DZM	73.3	90.0	30.0	46.7	58.3	46.7	10.7	86.7	55.3
OG-WALK	65.0	90.7	38.3	46.7	61.7	55.0	8.0	76.7	55.3
SETFM3	66.7	87.0	36.7	46.7	56.7	52.7	10.7	83.3	55.0
PST-5DC24	68.3	90.0	43.3	41.7	46.7	52.0	10.7	86.7	54.9
SETFM2	71.7	88.7	33.3	40.0	56.7	51.0	10.7	86.7	54.8
3B2	70.0	91.3	36.7	41.7	58.3	55.3	8.7	76.7	54.8
OKEEFE (LTP-TF-122)	65.0	90.3	35.0	45.0	65.0	52.7	8.7	73.3	54.4
PST-5MINK	73.3	90.0	31.7	36.7	45.0	65.3	5.7	83.3	53.9
DRAGSTER	66.7	87.0	33.3	45.0	51.7	60.3	7.3	76.7	53.5
ENDGAME (3N1)	70.0	88.3	31.7	43.3	48.3	57.7	9.3	76.7	53.2
FASTLANE (BY-TF-169)	63.3	93.3	30.0	41.7	55.0	53.7	10.0	76.7	53.0
GRAND PRIX (FC15-01P)	68.3	88.3	33.3	46.7	58.3	51.0	8.0	66.7	52.6
LAFAYETTE (GO-AOMK)	63.3	90.7	25.0	38.3	55.0	48.7	9.3	86.7	52.1
LSD VALUE	8.6	5.4	14.9	9.9	17.3	13.2	2.8	8.7	3.9
C.V. (%)	7.6	3.7	22.7	13.3	15.9	13.6	15.9	6.2	11.6

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 57.

FALL QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NC1	NJ2	OK1	MEAN
ROWDIER (DLFPS-321/3699)	3.3	7.3	5.3	5.3
BONFIRE (JS DTT)	3.0	7.7	5.0	5.2
SR 8700 (TMT1)	3.0	6.7	6.0	5.2
DAYBREAK (AH2)	3.3	6.7	5.0	5.0
DEGAS (LTP-TF-111)	3.0	6.3	5.7	5.0
RACEWAY (DLFPS-321/3696)	3.3	6.7	5.0	5.0
GRANDE 3	3.3	6.3	5.3	5.0
TALLADEGA II (NAI-3N2)	3.0	6.0	6.0	5.0
JT 233	3.0	5.7	6.0	4.9
DYNAMITE G-LS (PPG-TF 254)	3.7	5.7	5.3	4.9
BARNOBLE (BAR 9FE MAS)	3.0	6.7	4.7	4.8
ZION (BAR TF 134)	3.0	5.7	5.7	4.8
TYCOON (COL-TF-148)	3.0	6.0	5.3	4.8
GLX ACED (PST-5DART)	3.0	6.3	5.0	4.8
NAI-ST5	3.3	5.0	6.0	4.8
OKEEFE (LTP-TF-122)	3.3	5.3	5.7	4.8
TITANIUM G-LS (PPG-TF 255)	3.0	6.0	5.3	4.8
TRIAD (PPG-TF 323)	3.0	6.0	5.3	4.8
EXTRAVAGANZA (PST-5MCMO)	3.3	5.7	5.3	4.8
TAR HEEL III (PST-5THM)	3.7	6.0	4.7	4.8
RDC	3.7	5.3	5.3	4.8
TD2	3.0	6.0	5.3	4.8
TITAN GLX (TF445)	3.7	5.0	5.7	4.8
SPYDER 2LS (ZRC1)	3.3	5.0	6.0	4.8
BULLSEYE LTZ	3.0	5.3	5.7	4.7
DRAGSTER	3.3	5.7	5.0	4.7
TOUGH (NAI-TUE)	3.3	5.3	5.3	4.7
ROVER (PPG-TF 306)	3.3	5.0	5.7	4.7
FIRECRACKER G-LS (PPG-TF 315)	3.0	5.7	5.3	4.7
GLX REVIVE (PST-5GLBS)	3.7	4.7	5.7	4.7
FALCON SUPREME (RH1)	3.7	4.7	5.7	4.7
RHF	3.0	5.3	5.7	4.7
TITAN MAX (TF456)	3.3	5.3	5.3	4.7
CLASH (AH1)	3.0	6.0	4.7	4.6
AST8218LM	3.0	5.7	5.0	4.6
PPG-TF 249	3.3	4.7	5.7	4.6
GEM (PPG-TF 316)	3.3	5.0	5.3	4.6
DLFPS-321/3695	3.3	5.3	5.0	4.6
CAPITAN (DLFPS-321/3705)	3.7	5.0	5.0	4.6
DLFPS-321/3707	3.3	5.3	5.0	4.6
VALSETZ (PPG-TF 257)	3.0	5.3	5.3	4.6
AVENGER III (PPG-TF 308)	3.0	5.3	5.3	4.6
PST-5TRN	3.0	5.3	5.3	4.6
AST8118LM	3.0	5.7	4.7	4.4
ATF1768	3.0	4.7	5.7	4.4
GALLARDO (DLFPS-TF/3550)	3.0	4.7	5.7	4.4

TABLE 57.  
(CONT'D)

FALL QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2018 DATA

NAME	TURFGRASS QUALITY RATING			MEAN
	GS 1-9;	9=IDEAL	TURF 2/	
PST-5MINK	3.0	4.7	5.7	4.4
5LSS	3.0	5.0	5.3	4.4
ESSENTIAL 2 (DLFPS-TF/3552)	3.0	5.0	5.3	4.4
LIFEGUARD	3.3	4.3	5.7	4.4
BATTLE HAWK (NAI-ROS4)	3.3	4.7	5.3	4.4
FIRENZA II (PPG-TF 244)	3.3	5.3	4.7	4.4
PPG-TF 337	3.3	4.3	5.7	4.4
TANK (PPG-TF 338)	3.0	5.0	5.3	4.4
ORIOLE (PST-5BYOB)	3.3	4.3	5.7	4.4
MONUMENT (PST-5SQB)	3.3	4.3	5.7	4.4
ENDGAME (3N1)	3.3	4.3	5.3	4.3
A-TF31	3.0	5.0	5.0	4.3
BAR-FA8230	3.3	4.3	5.3	4.3
BENTLEY (DLFPS-321/3679)	3.0	4.3	5.7	4.3
DLFPS-321/3693	3.0	5.7	4.3	4.3
DLFPS-321/3708	3.0	4.3	5.7	4.3
DLFPS-TF/3553	3.3	4.3	5.3	4.3
XANADU (JT 268)	3.3	4.7	5.0	4.3
KIZZLE (K18-ROE)	3.0	4.3	5.7	4.3
FIERCE (K18-RS6)	3.3	4.7	5.0	4.3
MOONDANCE GLX	3.3	4.7	5.0	4.3
PPG-TF 231	3.3	4.0	5.7	4.3
SERENADE (PPG-TF 320)	3.0	4.3	5.7	4.3
FINELAWN SUPREME (RH3)	3.0	4.3	5.7	4.3
RS1	3.0	5.3	4.7	4.3
GRO-PRO (SE53D2)	3.0	4.7	5.3	4.3
TOPSHELF (BGR-TF3)	3.0	4.0	5.7	4.2
BIRMINGHAM	3.0	4.3	5.3	4.2
BULLSEYE	3.0	4.3	5.3	4.2
FASTLANE (BY-TF-169)	2.7	4.3	5.7	4.2
COPIOUS TF	3.0	5.0	4.7	4.2
FAYETTE	3.0	4.0	5.7	4.2
HEMI	3.0	4.0	5.7	4.2
STEALTH (PPG-TF 238)	3.7	4.0	5.0	4.2
PPG-TF 312	3.0	4.0	5.7	4.2
PPG-TF 318	3.3	4.0	5.3	4.2
RAPTOR LS (PPG-TF 336)	3.0	4.3	5.3	4.2
PRO GOLD	3.0	5.0	4.7	4.2
RC4	3.0	4.3	5.3	4.2
RHL2	3.7	4.0	5.0	4.2
SETFM3	3.3	4.0	5.3	4.2
DLFPS-321/3694	3.3	3.7	5.3	4.1
BLADERUNNER 3 (DLFPS-321/3701)	3.0	4.0	5.3	4.1
DLFPS-321/3706	3.0	3.7	5.7	4.1
PROVIDENCE (GO-RH20)	3.0	4.0	5.3	4.1
NATURALLY GREEN	4.0	2.7	5.7	4.1
NT-3	3.7	3.3	5.3	4.1



TABLE 57.  
(CONT'D)

FALL QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NC1	NJ2	OK1	MEAN
PADRE 2	3.0	4.0	5.3	4.1
PALOMAR	3.3	3.7	5.3	4.1
SOUTHSIDE (PPG-TF 267)	3.0	4.0	5.3	4.1
SE5STAR	3.0	4.0	5.3	4.1
3B2	3.3	3.7	5.0	4.0
LAFAYETTE (GO-AOMK)	2.7	4.3	5.0	4.0
JT 517	3.3	3.3	5.3	4.0
K18-NSE	3.3	4.3	4.3	4.0
K18-WB1	3.0	3.7	5.3	4.0
LBF	3.0	3.7	5.3	4.0
TEACHER (PPG-TF 313)	3.0	4.7	4.3	4.0
PST-5DC24	3.0	3.7	5.3	4.0
HELLCAT GLR (PST-5E6)	3.0	4.3	4.7	4.0
TANGO	3.3	3.7	5.0	4.0
BANDIT	3.0	3.3	5.3	3.9
DLFPS-321/3702	3.0	3.3	5.3	3.9
DLFPS-321/3703	3.0	4.0	4.7	3.9
FIREHAWK SLT	3.0	3.3	5.3	3.9
OG-WALK	3.0	3.0	5.7	3.9
SYMPHONY (PPG-TF 305)	3.0	3.3	5.3	3.9
PARAMOUNT	3.0	3.7	5.0	3.9
EXPANSE (PPG-TF 262)	3.0	3.3	5.0	3.8
PST-5GQ	3.0	3.3	5.0	3.8
ATF2116	3.0	3.0	5.3	3.8
RAPTOR III	3.0	3.7	4.7	3.8
GALACTIC (SESCR1)	3.0	3.0	5.3	3.8
FAIRFIELD (SETF104)	3.0	3.0	5.3	3.8
SETFM2	3.0	3.0	5.3	3.8
BAR FA 8228	3.3	1.7	6.0	3.7
BRAVO 2	3.3	3.0	4.7	3.7
GRAND PRIX (FC15-01P)	3.0	2.7	5.3	3.7
NAI-FQZ-17	3.0	3.0	5.0	3.7
ESCALADE	3.0	2.3	5.3	3.6
RAD-TF105	3.0	3.3	4.0	3.4
KENTUCKY-31	4.0	1.0	5.3	3.4
ESTRENA	3.3	2.0	4.7	3.3
PST-5DZM	3.3	2.7	4.0	3.3
RAD-TF131	3.0	1.7	5.0	3.2
RAD-TF 115 (TURBO SS)	3.0	2.0	4.7	3.2
LSD VALUE	0.6	1.5	1.0	0.6
C.V. (%)	12.2	20.8	12.2	16.1

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

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

TABLE 58.

TURF UNIFORMITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

TURF UNIFORMITY RATINGS 1-9; 9=COMPLETELY UNIFORM 2/

NAME	NE1	NJ2	UT1	MEAN
DAYBREAK (AH2)	7.0	9.0	7.0	7.3
PROVIDENCE (GO-RH20)	7.0	7.0	7.0	7.0
RS1	7.0	8.3	6.7	7.0
CAPITAN (DLFPS-321/3705)	6.7	6.7	7.1	7.0
RHF	7.0	7.3	7.1	7.0
TYCOON (COL-TF-148)	7.0	7.3	6.9	7.0
FIRENZA II (PPG-TF 244)	6.7	7.7	6.7	6.9
BONFIRE (JS DTT)	6.7	7.3	6.8	6.9
K18-NSE	7.0	7.7	7.0	6.8
RHL2	6.7	6.7	7.1	6.8
DLFPS-321/3695	6.3	7.0	7.0	6.8
SPYDER 2LS (ZRC1)	6.7	7.7	6.7	6.8
PPG-TF 318	7.0	7.3	6.7	6.8
K18-WB1	7.0	6.7	6.9	6.8
ROVER (PPG-TF 306)	7.0	7.0	6.7	6.8
FIERCE (K18-RS6)	6.7	7.7	6.8	6.7
TD2	6.7	7.0	6.9	6.7
RAPTOR LS (PPG-TF 336)	6.7	7.0	6.8	6.7
TEACHER (PPG-TF 313)	6.7	7.0	6.9	6.7
CLASH (AH1)	7.0	7.3	6.7	6.7
EXPANSE (PPG-TF 262)	6.7	7.0	6.9	6.7
GRANDE 3	6.7	7.3	6.6	6.7
PARAMOUNT	6.7	6.7	6.8	6.7
TITAN GLX (TF445)	6.7	8.0	6.2	6.7
GALACTIC (SESCR1)	6.3	7.7	6.7	6.6
GEM (PPG-TF 316)	7.0	7.3	6.6	6.6
PPG-TF 312	7.0	6.3	7.2	6.6
TITAN MAX (TF456)	6.7	7.0	6.6	6.6
TRIAD (PPG-TF 323)	7.0	6.0	7.1	6.6
FASTLANE (BY-TF-169)	6.7	7.7	6.3	6.6
FINELAWN SUPREME (RH3)	7.0	6.7	6.7	6.6
RC4	6.7	6.7	6.8	6.6
TITANIUM G-LS (PPG-TF 255)	7.0	6.0	6.8	6.6
RDC	6.7	7.0	6.6	6.5
ZION (BAR TF 134)	7.0	7.3	6.3	6.5
DEGAS (LTP-TF-111)	6.7	7.0	6.8	6.5
SYMPHONY (PPG-TF 305)	7.0	7.3	6.6	6.5
DLFPS-321/3693	7.0	7.0	6.7	6.5
DLFPS-321/3707	6.7	6.3	6.8	6.5
NAI-ST5	7.0	7.0	6.6	6.5
5LSS	6.7	6.3	7.0	6.5
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	6.7	6.7	6.5
HOUNDG NINE (DLFPS-321/3702)	6.7	7.0	6.7	6.5
XANADU (JT 268 )	7.0	6.3	6.7	6.5
BATTLE HAWK (NAI-ROS4)	6.7	6.3	6.7	6.4
DLFPS-321/3694	6.3	5.7	7.2	6.4

TABLE 58.  
(CONT'D)

TURF UNIFORMITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

TURF UNIFORMITY RATINGS 1-9; 9=COMPLETELY UNIFORM 2/

NAME	NE1	NJ2	UT1	MEAN
GALLARDO (DLFPS-TF/3550)	6.7	6.7	6.8	6.4
DLFPS-321/3706	6.7	6.0	7.0	6.4
DLFPS-TF/3553	6.3	6.0	7.0	6.4
DYNAMITE G-LS (PPG-TF 254)	6.7	6.0	6.8	6.4
FIRECRACKER G-LS (PPG-TF 315)	7.0	5.7	7.0	6.4
OKEEFE (LTP-TF-122)	7.0	6.7	6.6	6.4
DLFPS-321/3708	6.7	6.0	6.7	6.3
SOUTHSIDE (PPG-TF 267)	6.3	6.7	6.6	6.3
SR 8700 (TMT1)	6.7	6.3	6.4	6.3
DRAGSTER	6.7	6.0	6.6	6.3
NT-3	6.7	6.7	6.7	6.3
STEALTH (PPG-TF 238)	6.7	7.0	6.3	6.3
AVENGER III (PPG-TF 308)	6.0	5.7	6.8	6.3
TALLADEGA II (NAI-3N2)	6.3	6.0	6.6	6.3
FALCON SUPREME (RH1)	6.3	6.3	6.4	6.2
PPG-TF 231	6.7	5.7	6.6	6.2
SERENADE (PPG-TF 320)	7.0	6.0	6.4	6.2
HEMI	6.7	5.7	6.4	6.2
BLADERUNNER 3 (DLFPS-321/3701)	6.7	5.3	6.8	6.2
HELLCAT GLR (PST-5E6)	6.7	6.0	6.3	6.2
RAPTOR III	6.7	6.0	6.7	6.2
BULLSEYE LTZ	7.0	5.7	6.4	6.1
GLX REVIVE (PST-5GLBS)	6.7	6.7	5.9	6.1
KIZZLE (K18-ROE)	6.7	6.0	6.2	6.1
PADRE 2	6.7	5.7	6.3	6.1
PPG-TF 337	6.7	5.0	6.7	6.1
VALSETZ (PPG-TF 257)	6.7	6.0	6.4	6.1
PPG-TF 249	6.7	5.7	6.6	6.1
GLX ACED (PST-5DART)	6.3	6.7	6.1	6.1
LIFEGUARD	6.7	6.3	6.1	6.1
3B2	6.7	5.3	6.3	6.0
JT 233	6.7	6.0	6.1	6.0
FIREHAWK SLT	6.7	5.3	6.4	6.0
ROWDIER (DLFPS-321/3699)	6.3	6.0	6.2	6.0
TANK (PPG-TF 338)	6.7	4.7	6.7	6.0
TOUGH (NAI-TUE)	6.3	5.3	6.3	6.0
EXTRAVAGANZA (PST-5MCMO)	6.7	6.0	6.3	6.0
FAIRFIELD (SETF104)	6.3	6.3	6.2	5.9
ENDGAME (3N1)	7.0	5.0	6.4	5.9
RAD-TF105	6.3	6.0	6.1	5.9
PST-5GQ	7.0	6.0	6.1	5.9
ESTRENA	7.0	5.0	6.3	5.8
ATF1768	7.0	5.3	6.0	5.8
BULLSEYE	7.0	4.7	6.4	5.8
MOONDANCE GLX	7.0	5.3	5.8	5.7
PRO GOLD	7.0	5.0	6.0	5.7
BENTLEY (DLFPS-321/3679)	7.0	5.3	6.2	5.7

TABLE 58.  
(CONT'D)

TURF UNIFORMITY RATINGS OF TALL FESCUE CULTIVARS 1/  
2019-23 DATA

TURF UNIFORMITY RATINGS 1-9; 9=COMPLETELY UNIFORM 2/

NAME	NE1	NJ2	UT1	MEAN
COPIOUS TF	7.0	5.3	6.1	5.7
PST-5DZM	6.3	5.7	6.2	5.7
DLFPS-321/3703	6.3	4.3	6.4	5.6
ORIOLE (PST-5BYOB)	7.0	4.7	5.7	5.6
PST-5TRN	6.3	5.0	6.1	5.6
LAFAYETTE (GO-AOMK)	7.0	4.7	6.0	5.5
MONUMENT (PST-5SQB)	6.3	5.0	6.0	5.5
RACEWAY (DLFPS-321/3696)	6.0	4.3	6.3	5.5
TAR HEEL III (PST-5THM)	6.7	4.7	5.8	5.5
A-TF31	7.0	4.3	6.1	5.5
GRO-PRO (SE53D2)	7.0	5.0	5.6	5.5
PST-5DC24	7.0	4.0	6.0	5.4
ATF2116	6.7	4.3	5.8	5.4
JT 517	7.0	4.0	6.0	5.4
RAD-TF131	6.7	4.7	5.8	5.3
PST-5MINK	6.3	4.0	6.0	5.3
SETFM3	6.3	4.3	5.8	5.3
FAYETTE	6.3	3.3	6.1	5.3
NATURALLY GREEN	6.3	4.7	5.7	5.3
TANGO	6.3	4.3	6.0	5.3
AST8118LM	6.7	3.3	6.2	5.2
NAI-FQZ-17	6.7	4.0	5.7	5.2
RAD-TF 115 (TURBO SS)	6.7	3.7	6.1	5.2
BARNOBLE (BAR 9FE MAS)	6.7	4.0	6.0	5.2
LBF	6.3	3.7	6.0	5.2
BIRMINGHAM	6.7	3.7	6.0	5.2
BANDIT	6.0	4.0	6.0	5.2
BRAVO 2	7.0	3.7	5.7	5.1
GRAND PRIX (FC15-01P)	6.7	4.3	5.4	5.1
SETFM2	6.3	4.0	5.8	5.1
BAR-FA8230	6.7	3.7	5.7	5.1
OG-WALK	7.0	4.3	5.2	5.1
SE5STAR	7.0	3.7	5.6	5.1
TOPSHELF (BGR-TF3)	6.3	3.7	5.8	5.0
ESCALADE	7.0	3.3	5.7	5.0
BAR FA 8228	7.0	3.7	5.4	5.0
AST8218LM	6.3	3.3	5.8	5.0
PALOMAR	7.0	3.3	5.3	4.8
KENTUCKY-31	6.0	1.3	4.7	3.8
LSD VALUE	0.7	1.8	1.0	1.1
C.V. (%)	6.8	20.0	9.5	13.3

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

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

TABLE 59.

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
AT NEWARK, DE 1/  
2021-22 DATA

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

NAME	JUNE 2021	JULY 2021-22	AUGUST 2021-22	MEAN
K18-NSE	8.3	6.5	6.6	6.8
PROVIDENCE (GO-RH20)	8.3	6.7	6.7	6.8
DLFPS-321/3693	8.0	5.7	6.7	6.7
DAYBREAK (AH2)	9.0	6.0	6.8	6.6
DLFPS-321/3694	7.7	5.8	6.5	6.6
FINELAWN SUPREME (RH3)	8.7	6.7	6.2	6.6
MOONDANCE GLX	8.7	5.8	6.4	6.6
PPG-TF 312	8.7	6.3	6.4	6.6
RAPTOR LS (PPG-TF 336)	8.7	5.8	6.6	6.6
TD2	7.7	6.0	6.5	6.6
ZION (BAR TF 134)	8.7	6.2	6.2	6.6
3B2	8.0	6.2	6.3	6.5
BLADERUNNER 3 (DLFPS-321/3701)	9.0	6.3	6.2	6.5
CAPITAN (DLFPS-321/3705)	8.3	6.5	6.5	6.5
JT 233	9.0	5.8	6.3	6.5
OKEEFE (LTP-TF-122)	8.7	5.7	6.3	6.5
SPYDER 2LS (ZRC1)	8.7	6.0	6.3	6.5
TITAN GLX (TF445)	8.3	6.2	6.3	6.5
AVENGER III (PPG-TF 308)	9.0	6.3	6.3	6.4
BATTLE HAWK (NAI-ROS4)	9.0	6.3	6.3	6.4
DLFPS-321/3695	8.7	5.7	6.3	6.4
DYNAMITE G-LS (PPG-TF 254)	9.0	6.3	6.0	6.4
EXPANSE (PPG-TF 262)	8.7	5.8	6.2	6.4
PPG-TF 337	8.3	6.0	6.2	6.4
RHF	8.7	6.3	6.2	6.4
RHL2	8.7	5.8	6.3	6.4
XANADU (JT 268 )	8.7	6.2	6.2	6.4
DEGAS (LTP-TF-111)	8.7	6.0	6.1	6.3
DRAGSTER	7.7	6.7	6.0	6.3
ESSENTIAL 2 (DLFPS-TF/3552)	8.7	6.2	5.9	6.3
GALLARDO (DLFPS-TF/3550)	8.7	5.2	6.1	6.3
GEM (PPG-TF 316)	8.7	5.8	6.2	6.3
GRANDE 3	8.0	5.8	6.3	6.3
ORIOLE (PST-5BYOB)	8.7	5.7	6.0	6.3
PARAMOUNT	8.7	6.0	6.1	6.3
PPG-TF 249	8.7	6.0	6.2	6.3
RDC	8.7	5.8	6.2	6.3
5LSS	9.0	6.2	5.8	6.2
ENDGAME (3N1)	8.0	5.8	6.0	6.2
GALACTIC (SESCR1)	7.3	5.5	6.1	6.2
GRO-PRO (SE53D2)	9.0	6.0	5.9	6.2
NT-3	8.3	5.5	6.2	6.2
PPG-TF 231	8.7	5.5	6.0	6.2
RC4	8.7	6.0	5.8	6.2
SERENADE (PPG-TF 320)	8.3	6.2	5.9	6.2

TABLE 59.  
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
AT NEWARK, DE 1/  
2021-22 DATA

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

NAME	JUNE 2021	JULY 2021-22	AUGUST 2021-22	MEAN
STEALTH (PPG-TF 238)	8.3	5.8	6.0	6.2
BULLSEYE LTZ	8.0	5.7	5.9	6.1
CLASH (AH1)	7.0	6.3	6.1	6.1
FASTLANE (BY-TF-169)	8.3	5.8	6.0	6.1
FIERCE (K18-RS6)	8.3	5.5	5.9	6.1
FIRECRACKER G-LS (PPG-TF 315)	8.7	6.2	5.8	6.1
LIFEGUARD	8.7	5.7	5.8	6.1
PADRE 2	8.0	5.7	6.1	6.1
PST-5DC24	8.7	5.8	5.7	6.1
SR 8700 (TMT1)	8.7	5.3	6.1	6.1
TITAN MAX (TF456)	8.0	5.8	5.9	6.1
TITANIUM G-LS (PPG-TF 255)	7.0	5.8	6.3	6.1
TYCOON (COL-TF-148)	8.3	6.3	5.8	6.1
VALSETZ (PPG-TF 257)	8.7	5.2	5.8	6.1
DLFPS-321/3703	9.0	5.7	5.9	6.0
DLFPS-TF/3553	7.7	5.7	5.8	6.0
GLX ACED (PST-5DART)	9.0	5.7	5.7	6.0
HEMI	8.7	5.5	5.8	6.0
HOUNDG NINE (DLFPS-321/3702)	9.0	5.8	5.8	6.0
JT 517	8.0	5.7	5.7	6.0
KIZZLE (K18-ROE)	8.7	5.8	5.8	6.0
RAPTOR III	8.3	6.2	5.8	6.0
ROVER (PPG-TF 306)	8.3	4.7	6.1	6.0
ROWDIER (DLFPS-321/3699)	8.0	6.0	5.7	6.0
SYMPHONY (PPG-TF 305)	9.0	5.0	5.6	6.0
TALLADEGA II (NAI-3N2)	7.7	6.0	5.8	6.0
TEACHER (PPG-TF 313)	7.3	5.8	5.9	6.0
DLFPS-321/3708	8.0	5.8	5.8	5.9
EXTRAVAGANZA (PST-5MCMO)	8.3	5.7	5.8	5.9
K18-WB1	8.0	5.5	5.8	5.9
PST-5TRN	9.0	5.5	6.0	5.9
RACEWAY (DLFPS-321/3696)	8.7	6.0	5.6	5.9
SOUTHSIDE (PPG-TF 267)	8.0	5.8	5.6	5.9
TANK (PPG-TF 338)	8.0	6.2	5.7	5.9
TAR HEEL III (PST-5THM)	8.7	5.7	5.6	5.9
ATF1768	8.7	4.8	5.6	5.8
DLFPS-321/3707	7.7	5.7	5.6	5.8
FAIRFIELD (SETF104)	7.7	5.5	5.5	5.8
FIREHAWK SLT	9.0	5.5	5.4	5.8
RS1	8.3	6.0	5.4	5.8
TOUGH (NAI-TUE)	8.3	5.5	5.5	5.8
TRIAD (PPG-TF 323)	8.0	5.8	5.5	5.8
BONFIRE (JS DTT)	8.3	6.3	5.5	5.7
ESTRENA	8.3	6.0	5.4	5.7
FALCON SUPREME (RH1)	8.3	5.0	5.6	5.7

TABLE 59.  
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
AT NEWARK, DE 1/  
2021-22 DATA

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

NAME	JUNE 2021	JULY 2021-22	AUGUST 2021-22	MEAN
HELLCAT GLR (PST-5E6)	7.7	5.7	5.6	5.7
PPG-TF 318	8.3	5.3	5.4	5.7
RAD-TF 115 (TURBO SS)	8.3	5.2	5.2	5.7
SETFM2	7.3	5.0	5.3	5.7
ATF2116	8.7	5.0	5.4	5.6
BAR-FA8230	8.0	5.5	5.3	5.6
BENTLEY (DLFPS-321/3679)	8.7	5.7	5.5	5.6
DLFPS-321/3706	8.3	5.5	5.3	5.6
FIRENZA II (PPG-TF 244)	8.0	5.2	5.4	5.6
GLX REVIVE (PST-5GLBS)	8.7	6.0	5.4	5.6
MONUMENT (PST-5SQB)	8.7	5.2	5.4	5.6
NAI-ST5	8.7	5.7	5.3	5.6
PRO GOLD	8.0	5.8	5.5	5.6
PST-5DZM	8.0	5.5	5.1	5.6
PST-5GQ	8.7	5.3	5.6	5.6
AST8118LM	8.7	5.3	5.0	5.4
AST8218LM	8.3	5.3	5.1	5.4
BARNOBLE (BAR 9FE MAS)	7.3	4.8	5.2	5.4
KENTUCKY-31	8.7	5.5	5.1	5.4
LBF	8.7	5.5	5.3	5.4
PALOMAR	7.3	5.0	5.1	5.4
TANGO	8.0	4.8	5.2	5.4
BANDIT	8.3	4.8	5.2	5.3
BULLSEYE	7.7	5.3	4.9	5.3
NATURALLY GREEN	8.0	5.2	5.1	5.3
RAD-TF105	7.7	4.8	5.3	5.3
SETFM3	7.7	5.3	5.1	5.3
BIRMINGHAM	8.0	5.2	5.0	5.2
COPIOUS TF	8.3	4.7	5.0	5.2
PST-5MINK	8.3	4.8	4.9	5.2
RAD-TF131	7.7	5.2	4.8	5.2
SE5STAR	8.0	5.5	4.9	5.2
BRAVO 2	8.3	5.5	4.8	5.1
FAYETTE	8.0	5.0	5.0	5.1
LAFAYETTE (GO-AOMK)	8.0	5.0	4.8	5.1
OG-WALK	7.7	5.3	4.3	4.9
GRAND PRIX (FC15-01P)	7.7	4.7	4.4	4.7
TOPSHELVE (BGR-TF3)	7.3	4.5	4.7	4.6
A-TF31	6.7	4.0	4.3	4.5
BAR FA 8228	7.3	4.8	4.4	4.5
ESCALADE	7.0	4.8	4.2	4.5
NAI-FQZ-17	8.0	4.7	4.3	4.5
LSD VALUE	2.6	1.6	1.0	1.0
C.V. (%)	9.6	17.3	19.4	18.9

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 60.

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
AT WEST LAFAYETTE, IN 1/  
2022 DATA

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

NAME	JULY	AUGUST	MEAN
DEGAS (LTP-TF-111)	7.7	8.7	8.2
PARAMOUNT	8.3	8.0	8.2
FINELAWN SUPREME (RH3)	8.7	7.3	8.0
KENTUCKY-31	7.7	8.0	7.8
TALLADEGA II (NAI-3N2)	7.0	8.0	7.5
BATTLE HAWK (NAI-ROS4)	6.3	8.3	7.3
PROVIDENCE (GO-RH20)	7.0	7.7	7.3
RHL2	6.3	8.3	7.3
ROVER (PPG-TF 306)	7.0	7.7	7.3
TRIAD (PPG-TF 323)	6.3	8.3	7.3
TYCOON (COL-TF-148)	7.3	7.0	7.2
GALACTIC (SESCR1)	6.3	8.0	7.2
GALLARDO (DLFPS-TF/3550)	5.3	9.0	7.2
STEALTH (PPG-TF 238)	6.0	8.3	7.2
TITANIUM G-LS (PPG-TF 255)	6.7	7.7	7.2
BAR-FA8230	6.0	8.0	7.0
CAPITAN (DLFPS-321/3705)	6.3	7.7	7.0
DLFPS-321/3693	6.0	8.0	7.0
EXPANSE (PPG-TF 262)	6.3	7.7	7.0
TEACHER (PPG-TF 313)	6.7	7.3	7.0
ZION (BAR TF 134)	6.0	8.0	7.0
BONFIRE (JS DTT)	5.0	8.7	6.8
DLFPS-TF/3553	5.7	8.0	6.8
RAPTOR LS (PPG-TF 336)	6.3	7.3	6.8
RHF	6.3	7.3	6.8
TOUGH (NAI-TUE)	6.3	7.3	6.8
BARNOBLE (BAR 9FE MAS)	6.7	6.7	6.7
DLFPS-321/3703	5.3	8.0	6.7
DRAGSTER	5.7	7.7	6.7
ESSENTIAL 2 (DLFPS-TF/3552)	6.0	7.3	6.7
FALCON SUPREME (RH1)	6.7	6.7	6.7
FAYETTE	5.7	7.7	6.7
GRANDE 3	5.7	7.7	6.7
K18-NSE	5.7	7.7	6.7
NAI-ST5	6.0	7.3	6.7
PPG-TF 312	5.3	8.0	6.7
RAPTOR III	5.3	8.0	6.7
RC4	5.0	8.3	6.7
XANADU (JT 268)	6.3	7.0	6.7
5LSS	4.7	8.3	6.5
CLASH (AH1)	5.3	7.7	6.5
DLFPS-321/3695	5.7	7.3	6.5
JT 233	6.7	6.3	6.5
K18-WB1	6.0	7.0	6.5
NT-3	5.7	7.3	6.5



TABLE 60.  
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
AT WEST LAFAYETTE, IN 1/  
2022 DATA

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

NAME	JULY	AUGUST	MEAN
RS1	5.7	7.3	6.5
VALSETZ (PPG-TF 257)	5.0	8.0	6.5
BULLSEYE	5.3	7.3	6.3
DAYBREAK (AH2)	6.3	6.3	6.3
FIERCE (K18-RS6)	5.7	7.0	6.3
MOONDANCE GLX	5.7	7.0	6.3
ORIOLE (PST-5BYOB)	5.0	7.7	6.3
PPG-TF 231	6.0	6.7	6.3
TAR HEEL III (PST-5THM)	6.0	6.7	6.3
RDC	4.7	8.0	6.3
TITAN GLX (TF445)	6.0	6.7	6.3
TITAN MAX (TF456)	5.7	7.0	6.3
AVENGER III (PPG-TF 308)	5.7	6.7	6.2
BRAVO 2	5.3	7.0	6.2
DLFPS-321/3694	5.3	7.0	6.2
DLFPS-321/3706	5.7	6.7	6.2
ENDGAME (3N1)	5.3	7.0	6.2
FASTLANE (BY-TF-169)	5.0	7.3	6.2
KIZZLE (K18-ROE)	5.7	6.7	6.2
LIFEGUARD	5.3	7.0	6.2
MONUMENT (PST-5SQB)	5.0	7.3	6.2
OKEEFE (LTP-TF-122)	6.0	6.3	6.2
PADRE 2	5.0	7.3	6.2
GEM (PPG-TF 316)	4.3	8.0	6.2
PST-5TRN	6.0	6.3	6.2
ROWDIER (DLFPS-321/3699)	5.3	7.0	6.2
ATF1768	4.3	7.7	6.0
BULLSEYE LTZ	5.0	7.0	6.0
DLFPS-321/3707	5.7	6.3	6.0
HOUNDOG NINE (DLFPS-321/3702)	5.3	6.7	6.0
PRO GOLD	5.3	6.7	6.0
SE5STAR	5.3	6.7	6.0
SERENADE (PPG-TF 320)	6.3	5.7	6.0
SPYDER 2LS (ZRC1)	5.0	7.0	6.0
3B2	5.0	6.7	5.8
BLADERUNNER 3 (DLFPS-321/3701)	4.3	7.3	5.8
DYNAMITE G-LS (PPG-TF 254)	4.0	7.7	5.8
FAIRFIELD (SETF104)	5.7	6.0	5.8
FIREHAWK SLT	4.0	7.7	5.8
FIRENZA II (PPG-TF 244)	5.3	6.3	5.8
GLX ACED (PST-5DART)	5.0	6.7	5.8
GLX REVIVE (PST-5GLBS)	5.3	6.3	5.8
GRO-PRO (SE53D2)	5.0	6.7	5.8
HELLCAT GLR (PST-5E6)	5.0	6.7	5.8
HEMI	5.0	6.7	5.8

TABLE 60.  
(CONT'D)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
AT WEST LAFAYETTE, IN 1/  
2022 DATA

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

NAME	JULY	AUGUST	MEAN
NATURALLY GREEN	6.0	5.7	5.8
SR 8700 (TMT1)	4.3	7.3	5.8
TANGO	5.3	6.3	5.8
TANK (PPG-TF 338)	5.3	6.3	5.8
TD2	4.0	7.7	5.8
ATF2116	4.0	7.3	5.7
BENTLEY (DLFPS-321/3679)	4.3	7.0	5.7
DLFPS-321/3708	4.3	7.0	5.7
ESTRENA	3.7	7.7	5.7
PST-5MINK	4.3	7.0	5.7
TOPSHELF (BGR-TF3)	4.7	6.7	5.7
FIRECRACKER G-LS (PPG-TF 315)	5.0	6.0	5.5
LBF	5.0	6.0	5.5
PPG-TF 337	4.3	6.7	5.5
PST-5DC24	4.7	6.3	5.5
PST-5DZM	4.3	6.7	5.5
RACEWAY (DLFPS-321/3696)	5.0	6.0	5.5
RAD-TF105	4.3	6.7	5.5
RAD-TF115 (TURBO SS)	5.0	6.0	5.5
SETFM2	4.7	6.3	5.5
AST8218LM	3.7	7.0	5.3
BAR FA 8228	4.7	6.0	5.3
LAFAYETTE (GO-AOMK)	5.3	5.3	5.3
SETFM3	4.7	6.0	5.3
ESCALADE	4.7	5.7	5.2
OG-WALK	4.7	5.7	5.2
PPG-TF 249	4.0	6.3	5.2
RAD-TF131	5.0	5.3	5.2
BANDIT	4.7	5.3	5.0
NAI-FQZ-17	4.0	6.0	5.0
SOUTHSIDE (PPG-TF 267)	4.3	5.7	5.0
PST-5GQ	3.7	6.3	5.0
SYMPHONY (PPG-TF 305)	4.0	6.0	5.0
JT 517	4.0	5.7	4.8
PALOMAR	4.7	5.0	4.8
PPG-TF 318	3.7	6.0	4.8
AST8118LM	4.0	5.3	4.7
BIRMINGHAM	4.0	5.3	4.7
COPIOUS TF	2.7	6.7	4.7
EXTRAVAGANZA (PST-5MCMO)	3.7	5.7	4.7
GRAND PRIX (FC15-01P)	3.3	6.0	4.7
A-TF31	3.3	5.3	4.3
LSD VALUE	3.3	2.6	2.4
C.V. (%)	26.3	16.4	17.1

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 61.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS  
 AT RALEIGH, NC 1/  
 2020-21 DATA

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

NAME	JUNE 2020-21	JULY 2020-21	AUGUST 2020	MEAN
CAPITAN (DLFPS-321/3705)	7.2	6.3	5.3	6.9
TANK (PPG-TF 338)	7.1	5.5	5.0	6.7
BONFIRE (JS DTT)	6.9	5.8	4.7	6.6
TITANIUM G-LS (PPG-TF 255)	6.7	6.2	4.3	6.3
TITAN MAX (TF456)	6.5	6.0	4.3	6.2
FIRENZA II (PPG-TF 244)	6.3	5.8	5.3	6.1
PPG-TF 337	6.5	6.2	5.0	6.1
AVENGER III (PPG-TF 308)	6.3	5.3	3.7	6.0
DLFPS-321/3693	6.3	4.7	4.3	6.0
DLFPS-321/3707	6.3	5.3	5.0	6.0
RHF	6.3	5.5	4.0	6.0
SERENADE (PPG-TF 320)	6.4	5.0	4.3	5.9
DAYBREAK (AH2)	6.2	5.3	3.7	5.8
DLFPS-321/3695	5.8	6.0	5.0	5.8
FIERCE (K18-RS6)	6.1	5.2	5.3	5.8
FINELAWN SUPREME (RH3)	6.2	5.8	4.7	5.8
PROVIDENCE (GO-RH20)	6.3	5.3	4.3	5.8
RAPTOR LS (PPG-TF 336)	6.2	6.3	3.0	5.8
DLFPS-TF/3553	5.8	4.8	4.3	5.7
FALCON SUPREME (RH1)	6.3	5.0	5.0	5.7
STEALTH (PPG-TF 238)	6.3	4.5	4.3	5.7
CLASH (AH1)	5.8	4.8	5.0	5.6
DLFPS-321/3694	5.9	4.7	4.0	5.6
DLFPS-321/3708	5.8	4.5	3.7	5.6
FIRECRACKER G-LS (PPG-TF 315)	6.0	4.3	4.0	5.6
RHL2	5.9	6.2	4.0	5.6
RS1	5.7	4.7	3.3	5.6
TITAN GLX (TF445)	6.0	5.3	4.0	5.6
TOUGH (NAI-TUE)	5.9	5.3	5.0	5.6
DEGAS (LTP-TF-111)	6.0	5.0	3.7	5.5
PARAMOUNT	5.5	5.8	4.0	5.5
PPG-TF 312	6.0	4.5	2.3	5.5
RACEWAY (DLFPS-321/3696)	5.8	5.0	4.3	5.5
TYCOON (COL-TF-148)	5.8	5.7	4.3	5.5
BATTLE HAWK (NAI-ROS4)	5.7	5.0	4.0	5.4
DYNAMITE G-LS (PPG-TF 254)	5.9	4.5	4.0	5.4
EXPANSE (PPG-TF 262)	5.6	5.5	4.3	5.4
GEM (PPG-TF 316)	6.0	5.0	4.7	5.4
JT 233	5.5	5.2	4.0	5.4
PPG-TF 318	5.8	5.0	4.0	5.4
ROVER (PPG-TF 306)	5.8	5.5	4.7	5.4
SPYDER 2LS (ZRC1)	5.7	5.7	4.7	5.4
SR 8700 (TMT1)	5.8	5.0	4.0	5.4
TD2	6.0	4.8	3.3	5.4
ESSENTIAL 2 (DLFPS-TF/3552)	5.8	4.8	4.0	5.3

TABLE 61.  
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS  
AT RALEIGH, NC 1/  
2020-21 DATA

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

NAME	JUNE 2020-21	JULY 2020-21	AUGUST 2020	MEAN
GLX REVIVE (PST-5GLBS)	5.5	5.2	4.0	5.3
HEMI	5.4	4.5	2.7	5.3
K18-WB1	5.6	5.3	4.7	5.3
KIZZLE (K18-ROE)	5.6	4.8	5.3	5.3
ORIOLE (PST-5BYOB)	5.5	5.7	4.7	5.3
RC4	5.7	5.0	4.0	5.3
TRIAD (PPG-TF 323)	5.8	5.7	4.3	5.3
ATF1768	5.5	4.8	4.0	5.2
BULLSEYE LTZ	5.9	4.7	3.0	5.2
GLX ACED (PST-5DART)	5.4	4.7	4.3	5.2
NAI-ST5	5.6	4.8	5.0	5.2
SOUTHSIDE (PPG-TF 267)	5.6	4.3	3.3	5.2
SYMPHONY (PPG-TF 305)	5.7	4.3	4.0	5.2
XANADU (JT 268 )	5.4	5.5	4.3	5.2
5LSS	5.6	4.7	3.0	5.1
DRAGSTER	5.5	5.3	4.7	5.1
MOONDANCE GLX	5.5	4.7	3.7	5.1
PADRE 2	5.4	5.0	4.0	5.1
RAPTOR III	5.3	4.7	4.3	5.1
RDC	5.4	5.3	3.3	5.1
ZION (BAR TF 134)	5.5	4.7	4.0	5.1
BLADERUNNER 3 (DLFPS-321/3701)	5.4	5.0	3.7	5.0
ESTRENA	5.3	5.0	4.0	5.0
GALLARDO (DLFPS-TF/3550)	5.4	4.2	3.7	5.0
PPG-TF 249	5.4	4.2	3.7	5.0
3B2	5.4	4.2	3.0	4.9
ATF2116	5.2	4.5	4.0	4.9
DLFPS-321/3706	5.2	4.3	4.0	4.9
NT-3	5.5	4.3	3.7	4.9
OKEEFE (LTP-TF-122)	5.6	4.3	3.3	4.9
PPG-TF 231	5.3	5.3	3.3	4.9
PST-5TRN	5.2	4.3	4.3	4.9
SETFM3	5.3	3.7	3.0	4.9
TAR HEEL III (PST-5THM)	5.3	4.8	4.3	4.9
TEACHER (PPG-TF 313)	5.2	4.5	3.0	4.9
VALSETZ (PPG-TF 257)	5.4	4.5	3.0	4.9
ENDGAME (3N1)	5.3	4.0	4.3	4.8
FIREHAWK SLT	5.3	4.2	3.0	4.8
GALACTIC (SESCR1)	5.2	4.5	4.3	4.8
HOUNDOG NINE (DLFPS-321/3702)	5.2	4.3	3.7	4.8
LIFEGUARD	5.2	5.0	3.7	4.8
ROWDIER (DLFPS-321/3699)	5.2	4.7	4.0	4.8
FASTLANE (BY-TF-169)	5.0	5.5	3.7	4.7
FAYETTE	4.8	4.3	3.3	4.7
GRANDE 3	4.8	5.2	4.0	4.7

TABLE 61.  
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS  
AT RALEIGH, NC 1/  
2020-21 DATA

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

NAME	JUNE 2020-21	JULY 2020-21	AUGUST 2020	MEAN
EXTRAVAGANZA (PST-5MCMO)	5.0	4.2	4.7	4.6
RAD-TF105	4.8	4.7	3.7	4.6
TALLADEGA II (NAI-3N2)	4.8	5.0	3.7	4.6
HELLCAT GLR (PST-5E6)	4.8	4.5	4.3	4.5
K18-NSE	4.9	5.2	3.7	4.5
MONUMENT (PST-5SQB)	4.9	4.5	4.0	4.5
PRO GOLD	4.6	4.8	3.7	4.5
PST-5DC24	4.8	4.2	3.3	4.5
BRAVO 2	4.8	3.8	3.7	4.4
BULLSEYE	4.8	4.2	3.3	4.4
DLFPS-321/3703	4.8	4.8	4.7	4.4
KENTUCKY-31	4.8	3.7	3.7	4.4
TANGO	4.7	3.8	3.0	4.4
A-TF31	4.7	3.7	3.3	4.3
GRO-PRO (SE53D2)	4.7	4.0	3.0	4.3
PST-5DZM	4.6	3.8	2.7	4.2
SE5STAR	4.6	4.0	4.0	4.1
FAIRFIELD (SETF104)	4.5	3.2	3.3	4.0
AST8218LM	4.2	3.3	3.0	3.9
BENTLEY (DLFPS-321/3679)	4.3	3.3	2.7	3.9
PALOMAR	4.1	3.2	3.3	3.9
PST-5GQ	4.6	3.7	3.0	3.9
SETFM2	4.2	3.3	2.7	3.9
BAR-FA8230	3.9	3.3	3.0	3.8
COPIOUS TF	3.9	4.0	2.7	3.8
JT 517	4.0	3.5	3.3	3.8
LAFAYETTE (GO-AOMK)	4.3	3.3	2.3	3.8
LBF	4.2	3.3	2.0	3.8
NAI-FQZ-17	4.0	3.7	2.3	3.8
ESCALADE	3.9	3.2	2.7	3.7
GRAND PRIX (FC15-01P)	3.9	3.2	2.3	3.7
PST-5MINK	3.9	3.8	3.3	3.7
BANDIT	3.8	3.0	2.3	3.6
NATURALLY GREEN	3.8	3.3	2.7	3.6
RAD-TF131	3.9	2.7	1.7	3.6
AST8118LM	3.9	3.2	3.0	3.5
BARNOBLE (BAR 9FE MAS)	3.8	3.2	3.0	3.3
TOPSHELF (BGR-TF3)	3.4	3.2	3.0	3.3
BAR FA 8228	3.5	3.0	2.3	3.2
OG-WALK	3.4	2.8	2.3	3.2
RAD-TF 115 (TURBO SS)	3.4	3.0	2.3	3.1
BIRMINGHAM	3.4	3.0	2.3	3.0
LSD VALUE	1.1	1.3	2.1	1.0
C.V. (%)	26.4	24.7	27.0	25.1

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 62.

PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/  
 AT STILLWATER, OK 2/  
 2019 DATA

NAME	2 WEEKS	3 WEEKS	4 WEEKS	MEAN
AST8218LM	56.7	69.3	80.0	68.7
MOONDANCE GLX	58.3	67.7	80.0	68.7
PPG-TF 231	58.3	67.7	80.0	68.7
DLFPS-321/3703	56.7	69.3	76.7	67.6
EXPANSE (PPG-TF 262)	50.0	65.0	86.7	67.2
SOUTHSIDE (PPG-TF 267)	51.7	65.0	85.0	67.2
SPYDER 2LS (ZRC1)	57.3	67.7	76.7	67.2
VALSETZ (PPG-TF 257)	56.7	69.3	71.7	65.9
3B2	51.7	65.0	80.0	65.6
BATTLE HAWK (NAI-ROS4)	58.3	65.0	73.3	65.6
TALLADEGA II (NAI-3N2)	53.3	66.7	75.0	65.0
NATURALLY GREEN	57.3	67.7	70.0	65.0
PST-5MINK	57.3	67.7	70.0	65.0
SETFM3	50.0	65.0	78.3	64.4
HEMI	51.7	63.3	75.0	63.3
SE5STAR	50.0	65.0	75.0	63.3
PARAMOUNT	58.3	67.7	63.3	63.1
CAPITAN (DLFPS-321/3705)	58.3	65.0	63.3	62.2
DLFPS-TF/3553	58.3	65.0	63.3	62.2
ATF2116	51.7	63.3	70.0	61.7
AST8118LM	46.7	60.3	75.0	60.7
ESSENTIAL 2 (DLFPS-TF/3552)	53.3	66.7	61.7	60.6
PST-5DC24	51.7	63.3	66.7	60.6
ESCALADE	45.0	60.0	75.0	60.0
KENTUCKY-31	41.7	61.7	76.7	60.0
NT-3	46.7	60.0	73.3	60.0
TANGO	46.7	60.0	73.3	60.0
ZION (BAR TF 134)	50.0	65.0	63.3	59.4
LIFEGUARD	41.7	61.7	75.0	59.4
AVENGER III (PPG-TF 308)	45.0	60.0	73.3	59.4
RC4	46.7	60.3	70.0	59.0
BONFIRE (JS DTT)	51.7	65.0	60.0	58.9
BULLSEYE LTZ	46.7	60.0	70.0	58.9
JT 517	50.0	65.0	61.7	58.9
PPG-TF 337	41.7	61.7	73.3	58.9
EXTRAVAGANZA (PST-5MCMO)	45.0	60.0	70.0	58.3
BULLSEYE	45.0	58.3	70.0	57.8
DLFPS-321/3695	45.0	58.3	68.3	57.2
RACEWAY (DLFPS-321/3696)	50.0	65.0	56.7	57.2
XANADU (JT 268)	33.3	50.0	88.3	57.2
K18-WB1	40.0	55.0	76.7	57.2
ENDGAME (3N1)	41.7	55.0	73.3	56.7
NAI-FQZ-17	53.3	66.7	50.0	56.7
GLX REVIVE (PST-5GLBS)	45.0	58.3	66.7	56.7
TD2	41.7	55.0	73.3	56.7
RAD-TF 115 (TURBO SS)	41.7	55.0	73.3	56.7
TANK (PPG-TF 338)	36.3	59.0	73.3	56.2

TABLE 62.  
(CONT'D)

PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/  
AT STILLWATER, OK 2/  
2019 DATA

NAME	2 WEEKS	3 WEEKS	4 WEEKS	MEAN
RHL2	40.0	55.0	73.3	56.1
SYMPHONY (PPG-TF 305)	36.3	55.7	75.0	55.7
DLFPS-321/3708	41.7	55.0	70.0	55.6
GRO-PRO (SE53D2)	41.7	55.0	70.0	55.6
FIREHAWK SLT	40.0	55.0	70.0	55.0
GLX ACED (PST-5DART)	40.0	55.0	70.0	55.0
RAPTOR LS (PPG-TF 336)	30.0	55.0	80.0	55.0
SR 8700 (TMT1)	40.0	55.0	70.0	55.0
HOUNDOG NINE (DLFPS-321/3702)	46.7	60.3	56.7	54.6
BARNOBLE (BAR 9FE MAS)	35.0	51.7	76.7	54.4
FASTLANE (BY-TF-169)	36.7	55.0	71.7	54.4
ROWDIER (DLFPS-321/3699)	36.7	50.0	76.7	54.4
FIRENZA II (PPG-TF 244)	31.7	50.0	80.0	53.9
PALOMAR	33.3	54.0	73.3	53.6
FALCON SUPREME (RH1)	26.7	48.3	85.0	53.3
RS1	41.7	55.0	63.3	53.3
BRAVO 2	35.0	54.3	70.0	53.1
LAFAYETTE (GO-AOMK)	35.0	54.3	70.0	53.1
FIERCE (K18-RS6)	35.0	51.7	71.7	52.8
ORIOLE (PST-5BYOB)	30.0	55.0	73.3	52.8
BAR-FA8230	36.7	50.0	70.0	52.2
RAD-TF131	35.0	51.7	70.0	52.2
BANDIT	30.0	51.7	73.3	51.7
TYCOON (COL-TF-148)	26.7	48.3	80.0	51.7
BENTLEY (DLFPS-321/3679)	33.3	55.0	66.7	51.7
DLFPS-321/3706	33.3	55.0	66.7	51.7
GRAND PRIX (FC15-01P)	30.0	55.0	70.0	51.7
JT 233	25.0	48.3	81.7	51.7
TRIAD (PPG-TF 323)	33.3	51.7	70.0	51.7
GALACTIC (SESCR1)	36.7	50.0	68.3	51.7
DYNAMITE G-LS (PPG-TF 254)	33.3	54.0	66.7	51.3
KIZZLE (K18-ROE)	31.7	51.7	70.0	51.1
GALLARDO (DLFPS-TF/3550)	35.0	54.3	63.3	50.9
K18-NSE	34.0	48.7	70.0	50.9
CLASH (AH1)	28.3	50.0	73.3	50.6
DRAGSTER	30.0	51.7	70.0	50.6
TOUGH (NAI-TUE)	33.3	55.0	63.3	50.6
SERENADE (PPG-TF 320)	32.0	48.3	70.0	50.1
FINELAWN SUPREME (RH3)	21.7	41.7	86.7	50.0
BAR FA 8228	40.0	55.0	53.3	49.4
FAIRFIELD (SETF104)	28.3	50.0	70.0	49.4
GRANDE 3	28.3	50.0	68.3	48.9
MONUMENT (PST-5SQB)	26.7	45.0	75.0	48.9
5LSS	30.0	51.7	63.3	48.3
DLFPS-321/3694	31.7	45.0	68.3	48.3
RAPTOR III	26.7	48.3	70.0	48.3
OKEEFE (LTP-TF-122)	22.7	41.7	80.0	48.1

TABLE 62.  
(CONT'D)

PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS 1/  
AT STILLWATER, OK 2/  
2019 DATA

NAME	2 WEEKS	3 WEEKS	4 WEEKS	MEAN
DAYBREAK (AH2)	25.0	41.7	76.7	47.8
DEGAS (LTP-TF-111)	21.7	50.0	71.7	47.8
TEACHER (PPG-TF 313)	23.3	50.0	70.0	47.8
COPIOUS TF	26.7	49.0	66.7	47.4
PROVIDENCE (GO-RH20)	26.7	49.0	66.7	47.4
PST-5GQ	33.3	54.0	55.0	47.4
PADRE 2	31.7	38.3	70.0	46.7
PPG-TF 249	25.0	40.0	75.0	46.7
PPG-TF 318	31.7	45.0	63.3	46.7
ROVER (PPG-TF 306)	26.7	45.0	66.7	46.1
PRO GOLD	20.0	46.7	71.7	46.1
HELLCAT GLR (PST-5E6)	21.7	40.0	76.7	46.1
PST-5TRN	28.3	41.7	68.3	46.1
TOPSHELF (BGR-TF3)	26.7	49.0	61.7	45.8
A-TF31	28.3	41.7	66.7	45.6
ATF1768	31.7	38.3	66.7	45.6
STEALTH (PPG-TF 238)	28.3	41.7	66.7	45.6
TITANIUM G-LS (PPG-TF 255)	20.0	46.7	70.0	45.6
PST-5DZM	31.7	45.0	60.0	45.6
DLFPS-321/3693	26.7	45.0	63.3	45.0
FAYETTE	25.0	40.0	70.0	45.0
BIRMINGHAM	31.7	38.3	63.3	44.4
OG-WALK	20.0	46.7	66.7	44.4
PPG-TF 312	21.7	40.0	71.7	44.4
RAD-TF105	25.0	41.7	66.7	44.4
RDC	25.0	41.7	66.7	44.4
LBF	23.3	33.3	75.0	43.9
RHF	23.3	41.7	66.7	43.9
SETFM2	25.0	40.0	66.7	43.9
DLFPS-321/3707	23.3	33.3	70.0	42.2
GEM (PPG-TF 316)	15.0	35.0	76.7	42.2
TAR HEEL III (PST-5THM)	17.7	36.7	71.7	42.0
BLADERUNNER 3 (DLFPS-321/3701)	15.0	35.0	75.0	41.7
TITAN GLX (TF445)	21.7	40.0	63.3	41.7
FIRECRACKER G-LS (PPG-TF 315)	17.7	36.7	70.0	41.4
NAI-ST5	23.3	33.3	63.3	40.0
TITAN MAX (TF456)	17.7	36.7	60.0	38.1
ESTRENA	15.0	35.0	63.3	37.8
LSD VALUE	53.1	43.0	23.7	39.9
C.V. (%)	48.8	27.4	13.3	21.9

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 63.

PERCENT ESTABLISHMENT AND OTHER RATINGS OF TALL FESCUE CULTIVARS 2/ 3/  
AT GUELPH, ON 1/  
2019 DATA

NAME	PERCENT	PERCENT	PERCENT ESTABLISHMENT	
	WEEDS 28 DAYS	BARE SOIL 28 DAYS	16 DAYS	28 DAYS
CLASH (AH1)	5.0	10.0	63.3	85.0
DAYBREAK (AH2)	5.0	11.7	73.3	83.3
NAI-ST5	8.3	8.3	61.7	83.3
AVENGER III (PPG-TF 308)	6.7	10.0	70.0	83.3
ESTRENA	6.7	11.7	56.7	81.7
MOONDANCE GLX	8.3	10.0	51.7	81.7
FAIRFIELD (SETF104)	8.3	10.0	65.0	81.7
SPYDER 2LS (ZRC1)	8.3	10.0	55.0	81.7
BLADERUNNER 3 (DLFPS-321/3701)	6.7	13.3	46.7	80.0
K18-NSE	8.3	11.7	60.0	80.0
KIZZLE (K18-ROE)	10.0	10.0	63.3	80.0
KENTUCKY-31	6.7	13.3	46.7	80.0
DYNAMITE G-LS (PPG-TF 254)	6.7	13.3	55.0	80.0
ATF1768	11.7	10.0	56.7	78.3
DLFPS-321/3695	15.0	6.7	55.0	78.3
K18-WB1	10.0	11.7	53.3	78.3
GEM (PPG-TF 316)	8.3	13.3	51.7	78.3
PPG-TF 337	10.0	11.7	55.0	78.3
TANK (PPG-TF 338)	15.0	6.7	55.0	78.3
ORIOLE (PST-5BYOB)	5.0	16.7	53.3	78.3
GLX REVIVE (PST-5GLBS)	15.0	6.7	56.7	78.3
FINELAWN SUPREME (RH3)	8.3	13.3	56.7	78.3
5LSS	13.3	10.0	48.3	76.7
DLFPS-321/3694	13.3	10.0	50.0	76.7
DLFPS-TF/3553	13.3	10.0	55.0	76.7
FIERCE (K18-RS6)	11.7	11.7	55.0	76.7
LBF	10.0	13.3	48.3	76.7
TALLADEGA II (NAI-3N2)	13.3	10.0	48.3	76.7
PPG-TF 249	11.7	11.7	48.3	76.7
EXPANSE (PPG-TF 262)	8.3	15.0	56.7	76.7
PPG-TF 312	13.3	10.0	61.7	76.7
PRO GOLD	13.3	10.0	41.7	76.7
RDC	8.3	15.0	66.7	76.7
GALACTIC (SESCR1)	8.3	15.0	45.0	76.7
SR 8700 (TMT1)	13.3	10.0	68.3	76.7
ATF2116	10.0	15.0	46.7	75.0
DLFPS-321/3693	13.3	11.7	60.0	75.0
RACEWAY (DLFPS-321/3696)	18.3	6.7	46.7	75.0
NAI-FQZ-17	10.0	15.0	51.7	75.0
TOUGH (NAI-TUE)	16.7	8.3	55.0	75.0
FIRENZA II (PPG-TF 244)	10.0	15.0	53.3	75.0
RAPTOR LS (PPG-TF 336)	5.0	20.0	65.0	75.0
PST-5GQ	11.7	13.3	50.0	75.0
RAD-TF105	16.7	8.3	61.7	75.0
GRO-PRO (SE53D2)	11.7	13.3	43.3	75.0

TABLE 63.  
(CONT'D)

PERCENT ESTABLISHMENT AND OTHER RATINGS OF TALL FESCUE CULTIVARS 2/ 3/  
AT GUELPH, ON 1/  
2019 DATA

NAME	PERCENT	PERCENT	PERCENT ESTABLISHMENT	
	WEEDS 28 DAYS	BARE SOIL 28 DAYS	16 DAYS	28 DAYS
BARNOBLE (BAR 9FE MAS)	16.7	10.0	50.0	73.3
BULLSEYE LTZ	16.7	10.0	58.3	73.3
ROWDIER (DLFPS-321/3699)	8.3	18.3	55.0	73.3
ESSENTIAL 2 (DLFPS-TF/3552)	6.7	20.0	46.7	73.3
FIREHAWK SLT	16.7	10.0	50.0	73.3
GLX ACED (PST-5DART)	13.3	13.3	50.0	73.3
PROVIDENCE (GO-RH20)	15.0	11.7	53.3	73.3
BONFIRE (JS DTT)	13.3	13.3	55.0	73.3
JT 233	21.7	5.0	60.0	73.3
XANADU (JT 268)	13.3	13.3	41.7	73.3
NATURALLY GREEN	16.7	10.0	63.3	73.3
ROVER (PPG-TF 306)	21.7	5.0	56.7	73.3
TRIAD (PPG-TF 323)	18.3	8.3	43.3	73.3
PST-5DZM	13.3	13.3	35.0	73.3
EXTRAVAGANZA (PST-5MCMO)	13.3	13.3	51.7	73.3
PST-5TRN	13.3	13.3	51.7	73.3
TITAN GLX (TF445)	8.3	18.3	40.0	73.3
BAR FA 8228	15.0	13.3	56.7	71.7
ZION (BAR TF 134)	15.0	13.3	50.0	71.7
FASTLANE (BY-TF-169)	18.3	10.0	43.3	71.7
TYCOON (COL-TF-148)	15.0	13.3	58.3	71.7
CAPITAN (DLFPS-321/3705)	11.7	16.7	46.7	71.7
GALLARDO (DLFPS-TF/3550)	16.7	11.7	50.0	71.7
ESCALADE	15.0	13.3	50.0	71.7
FAYETTE	10.0	18.3	46.7	71.7
GRANDE 3	20.0	8.3	58.3	71.7
JT 517	13.3	15.0	51.7	71.7
LIFEGUARD	20.0	8.3	60.0	71.7
PPG-TF 231	16.7	11.7	48.3	71.7
STEALTH (PPG-TF 238)	20.0	8.3	55.0	71.7
SOUTHSIDE (PPG-TF 267)	10.0	18.3	55.0	71.7
SERENADE (PPG-TF 320)	16.7	11.7	55.0	71.7
TAR HEEL III (PST-5THM)	18.3	10.0	55.0	71.7
RAD-TF131	11.7	16.7	38.3	71.7
TANGO	13.3	15.0	51.7	71.7
TD2	16.7	11.7	66.7	71.7
BAR-FA8230	16.7	13.3	51.7	70.0
BRAVO 2	16.7	13.3	51.7	70.0
BENTLEY (DLFPS-321/3679)	20.0	10.0	50.0	70.0
HOUNDOG NINE (DLFPS-321/3702)	8.3	21.7	38.3	70.0
DLFPS-321/3703	10.0	20.0	40.0	70.0
BATTLE HAWK (NAI-ROS4)	15.0	15.0	48.3	70.0
NT-3	20.0	10.0	43.3	70.0
PADRE 2	11.7	18.3	43.3	70.0
PARAMOUNT	13.3	16.7	53.3	70.0

TABLE 63.  
(CONT'D)

PERCENT ESTABLISHMENT AND OTHER RATINGS OF TALL FESCUE CULTIVARS 2/ 3/  
AT GUELPH, ON 1/  
2019 DATA

NAME	% WEEDS	& BARE SOIL	PERCENT ESTABLISHMENT	
	28 DAYS	28 DAYS	16 DAYS	28 DAYS
SYMPHONY (PPG-TF 305)	8.3	21.7	50.0	70.0
RC4	13.3	16.7	51.7	70.0
RS1	20.0	10.0	53.3	70.0
ENDGAME (3N1)	15.0	16.7	35.0	68.3
BANDIT	20.0	11.7	53.3	68.3
TOPSHELF (BGR-TF3)	15.0	16.7	51.7	68.3
BULLSEYE	21.7	10.0	50.0	68.3
DLFPS-321/3708	18.3	13.3	48.3	68.3
GRAND PRIX (FC15-01P)	11.7	20.0	35.0	68.3
DEGAS (LTP-TF-111)	16.7	15.0	48.3	68.3
VALSETZ (PPG-TF 257)	20.0	11.7	50.0	68.3
TEACHER (PPG-TF 313)	16.7	15.0	51.7	68.3
FIRECRACKER G-LS (PPG-TF 315)	11.7	20.0	53.3	68.3
PPG-TF 318	21.7	10.0	55.0	68.3
MONUMENT (PST-5SQB)	18.3	13.3	53.3	68.3
RHL2	18.3	13.3	50.0	68.3
SETFM2	23.3	8.3	55.0	68.3
SETFM3	16.7	15.0	48.3	68.3
A-TF31	20.0	13.3	46.7	66.7
BIRMINGHAM	11.7	21.7	51.7	66.7
DLFPS-321/3707	13.3	20.0	51.7	66.7
DRAGSTER	15.0	18.3	51.7	66.7
HELLCAT GLR (PST-5E6)	11.7	21.7	33.3	66.7
RAPTOR III	21.7	11.7	40.0	66.7
RHF	18.3	15.0	46.7	66.7
AST8118LM	16.7	18.3	36.7	65.0
AST8218LM	18.3	16.7	40.0	65.0
COPIOUS TF	15.0	20.0	55.0	65.0
HEMI	15.0	20.0	58.3	65.0
OKEEFE (LTP-TF-122)	23.3	11.7	36.7	65.0
PALOMAR	23.3	11.7	36.7	65.0
TITANIUM G-LS (PPG-TF 255)	25.0	10.0	51.7	65.0
FALCON SUPREME (RH1)	20.0	15.0	51.7	65.0
TITAN MAX (TF456)	16.7	18.3	48.3	65.0
RAD-TF 115 (TURBO SS)	15.0	20.0	46.7	65.0
OG-WALK	30.0	8.3	40.0	61.7
PST-5DC24	16.7	21.7	46.7	61.7
SE5STAR	30.0	8.3	35.0	61.7
DLFPS-321/3706	16.7	23.3	51.7	60.0
3B2	28.3	13.3	30.0	58.3
LAFAYETTE (GO-AOMK)	18.3	23.3	26.7	58.3
PST-5MINK	26.7	15.0	36.7	58.3
LSD VALUE	34.2	25.7	16.3	32.5
C.V. (%)	59.2	49.9	17.6	12.3

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

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

3/ SEEDED ON AUGUST 14, 2019

TABLE 64.

PERCENT LIVING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN UNDER NO TRAFFIC STRESS AT AMES, IA 2/  
2019 DATA

NAME	APR_29	MAY_22	JULY_12	AUG_20	SEPT_30	OCT_4	NOV_6	MEAN
DAYBREAK (AH2)	70.7	92.0	95.3	98.7	99.0	97.7	95.7	92.7
RDC	76.3	92.7	88.0	98.7	99.0	97.0	96.0	92.5
RHF	78.7	85.0	93.3	98.7	99.0	96.0	97.0	92.5
FIRENZA II (PPG-TF 244)	75.3	80.7	95.7	99.0	99.0	98.7	97.7	92.3
BULLSEYE LTZ	70.3	86.7	94.3	98.3	98.0	98.3	96.7	91.8
ZION (BAR TF 134)	72.3	81.0	94.3	98.7	98.7	98.7	98.0	91.7
ESSENTIAL 2 (DLFPS-TF/3552)	69.3	86.3	91.0	99.0	99.0	97.3	97.7	91.4
TANK (PPG-TF 338)	72.7	82.3	92.0	98.7	99.0	97.0	97.3	91.3
TRIAD (PPG-TF 323)	73.0	79.0	94.7	99.0	98.7	97.3	96.7	91.2
K18-NSE	67.0	84.3	91.7	98.7	98.3	97.7	98.3	90.9
SERENADE (PPG-TF 320)	71.3	79.7	95.0	98.3	98.3	97.0	96.0	90.8
BONFIRE (JS DTT)	68.0	78.7	94.7	99.0	98.7	97.7	97.7	90.6
DLFPS-321/3693	69.0	79.3	93.7	99.0	99.0	97.7	96.0	90.5
RS1	60.7	87.7	93.7	98.7	98.7	97.0	96.3	90.4
ROWDIER (DLFPS-321/3699)	64.7	82.7	95.7	97.3	98.7	97.3	96.0	90.3
PPG-TF 312	68.3	78.0	91.3	98.3	99.0	98.3	97.7	90.1
AST8218LM	66.7	87.3	91.0	97.7	98.0	97.0	90.7	89.8
TEACHER (PPG-TF 313)	64.0	79.7	93.0	98.3	99.0	97.7	97.0	89.8
BIRMINGHAM	69.0	78.3	91.3	98.3	98.3	96.7	96.0	89.7
ESTRENA	65.7	83.3	93.0	98.7	98.0	95.7	93.3	89.7
K18-WB1	65.7	76.3	91.7	99.0	99.0	98.0	98.0	89.7
HOUND DOG NINE (DLFPS-321/3702)	59.0	83.7	94.3	98.7	98.3	96.7	96.7	89.6
CAPTAN (DLFPS-321/3705)	60.7	82.0	94.3	99.0	99.0	96.0	96.0	89.6
5LSS	64.3	78.7	92.3	98.3	98.3	97.3	97.3	89.5
CLASH (AH1)	65.3	72.7	93.7	99.0	99.0	97.7	98.3	89.4
TOPSHELF (BGR-TF3)	69.0	84.0	88.0	97.7	97.7	94.0	94.7	89.3
EXPANSE (PPG-TF 262)	65.7	81.7	88.7	98.3	98.3	96.3	96.3	89.3
LIFEGUARD	61.0	83.7	92.0	98.3	99.0	96.3	94.0	89.2
PRO GOLD	62.3	81.0	92.3	99.0	98.7	95.7	95.7	89.2
TD2	67.0	81.7	84.3	97.0	98.3	97.7	98.0	89.1
RACEWAY (DLFPS-321/3696)	66.0	76.3	92.7	97.3	98.3	96.0	96.3	89.0
PPG-TF 249	58.3	77.7	97.3	98.0	98.7	97.3	95.7	89.0
ESCALADE	64.7	81.7	86.3	98.0	98.3	97.0	96.3	88.9
RAPTOR LS (PPG-TF 336)	66.7	75.0	95.3	97.3	98.7	98.0	91.3	88.9
SPYDER 2LS (ZRC1)	60.7	76.3	94.7	98.7	98.7	97.7	95.0	88.8
GLX REVIVE (PST-5GLBS)	65.0	74.0	91.7	98.7	97.7	97.3	96.7	88.7
GALLARDO (DLFPS-TF/3550)	67.0	77.7	92.7	97.0	98.0	91.7	96.3	88.6
PADRE 2	65.3	70.7	92.3	98.0	99.0	98.3	96.7	88.6
PPG-TF 318	53.3	81.7	94.0	98.7	99.0	98.7	95.0	88.6
BAR FA 8228	67.0	79.0	89.3	97.3	98.0	94.3	94.3	88.5
FIRECRACKER G-LS (PPG-TF 315)	61.0	72.3	93.7	98.7	98.7	98.0	97.0	88.5
PPG-TF 231	63.0	74.7	92.0	98.7	98.0	97.3	95.3	88.4
DLFPS-321/3694	61.7	80.0	85.7	97.7	98.7	97.7	96.3	88.2
TITAN GLX (TF445)	65.0	76.3	86.3	97.7	98.3	97.3	96.3	88.2
NT-3	66.3	69.3	90.3	98.7	98.7	97.0	96.3	88.1
SYMPHONY (PPG-TF 305)	60.0	78.3	94.7	98.3	97.7	96.7	91.0	88.1
KIZZLE (K18-ROE)	61.7	78.3	88.0	98.0	98.3	97.0	92.7	87.7

TABLE 64.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN UNDER NO TRAFFIC STRESS AT AMES, IA 2/  
2019 DATA

NAME	APR_29	MAY_22	JULY_12	AUG_20	SEPT_30	OCT_4	NOV_6	MEAN
JT 233	60.3	69.3	95.7	98.3	98.7	97.7	93.0	87.6
GEM (PPG-TF 316)	54.0	72.7	94.3	99.0	99.0	97.0	97.3	87.6
FINELAWN SUPREME (RH3)	72.3	69.3	85.7	95.7	95.7	97.0	96.7	87.5
FASTLANE (BY-TF-169)	68.0	77.7	92.0	97.7	98.7	86.3	91.7	87.4
DLFPS-TF/3553	53.7	76.3	90.7	98.3	99.0	97.0	97.0	87.4
RHL2	64.7	64.3	96.0	98.0	95.7	97.7	95.7	87.4
ORIOLE (PST-5BYOB)	57.0	71.0	94.7	98.3	99.0	97.0	93.7	87.2
NATURALLY GREEN	53.7	86.3	86.7	97.3	97.7	93.3	94.3	87.0
DLFPS-321/3703	62.7	63.3	91.7	98.7	98.7	96.7	96.7	86.9
OKEEFE (LTP-TF-122)	56.3	76.7	85.7	98.3	97.3	97.0	97.0	86.9
SOUTHSIDE (PPG-TF 267)	55.3	71.3	92.7	99.0	98.7	97.0	94.3	86.9
FALCON SUPREME (RH1)	63.3	64.3	89.0	98.0	98.3	98.3	97.0	86.9
SR 8700 (TMT1)	58.0	73.3	90.7	97.3	98.7	96.0	94.3	86.9
XANADU (JT 268)	49.3	74.0	94.7	98.3	98.3	96.3	96.7	86.8
TALLADEGA II (NAI-3N2)	64.0	63.7	93.7	97.3	98.7	97.0	92.0	86.6
GRO-PRO (SE53D2)	50.7	70.7	93.0	98.3	98.7	98.0	96.7	86.6
HEMI	58.7	70.0	90.0	96.3	98.3	96.7	95.7	86.5
AST8118LM	54.0	70.3	90.0	98.0	98.3	97.0	96.3	86.3
STEALTH (PPG-TF 238)	56.3	69.0	93.0	98.0	98.3	96.0	93.7	86.3
SETFM3	55.3	70.0	88.0	99.0	98.7	96.3	96.0	86.2
BLADERUNNER 3 (DLFPS-321/3701)	62.0	57.7	89.3	99.0	99.0	97.3	97.3	86.0
GRANDE 3	54.0	69.3	90.0	96.0	98.7	97.7	96.0	86.0
FIERCE (K18-RS6)	50.3	69.0	90.7	98.7	99.0	98.0	96.0	86.0
MONUMENT (PST-5SQB)	55.3	74.0	89.0	99.0	91.7	97.0	95.7	86.0
DLFPS-321/3707	58.3	72.0	85.3	98.3	98.3	94.7	94.0	85.9
ATF2116	56.3	67.3	88.3	98.0	97.3	96.3	96.3	85.7
LBF	63.0	64.3	89.0	97.7	98.0	94.7	93.3	85.7
BANDIT	62.3	73.0	86.7	95.0	96.0	95.0	91.3	85.6
ROVER (PPG-TF 306)	53.7	69.7	83.7	98.3	97.7	98.0	97.3	85.5
TYCOON (COL-TF-148)	50.7	67.7	88.7	98.7	97.7	97.3	97.0	85.4
VALSETZ (PPG-TF 257)	60.7	66.0	85.3	98.7	99.0	97.3	90.7	85.4
A-TF31	53.0	69.3	85.0	98.7	98.7	96.7	95.7	85.3
DLFPS-321/3708	49.0	69.0	94.7	98.7	98.3	93.7	93.0	85.2
PARAMOUNT	47.7	70.7	91.3	98.7	98.7	95.3	94.0	85.2
GALACTIC (SESCR1)	58.3	68.3	86.7	98.3	99.0	90.3	95.7	85.2
SETFM2	58.0	65.7	88.3	97.7	98.0	96.3	91.3	85.0
BRAVO 2	55.3	70.7	85.7	97.0	97.0	94.0	94.3	84.9
DRAGSTER	50.3	69.0	87.3	97.3	98.3	97.0	95.0	84.9
KENTUCKY-31	65.7	72.0	80.7	96.7	98.0	94.0	87.0	84.9
DEGAS (LTP-TF-111)	47.0	65.0	91.3	98.3	98.7	97.3	95.7	84.8
FAYETTE	49.7	63.3	93.3	97.3	98.0	97.0	95.0	84.8
BARNOBLE (BAR 9FE MAS)	56.0	64.0	88.3	96.0	97.3	95.0	96.0	84.7
DLFPS-321/3706	63.0	68.7	89.7	97.7	88.0	96.3	89.7	84.7
TITAN MAX (TF456)	49.0	60.3	91.7	98.3	99.0	97.7	96.7	84.7
OG-WALK	48.7	69.3	91.3	96.7	97.0	96.3	92.0	84.5
TITANIUM G-LS (PPG-TF 255)	44.3	61.7	91.3	98.7	98.7	98.3	97.0	84.3
BENTLEY (DLFPS-321/3679)	62.7	65.7	87.0	97.7	97.7	89.3	89.3	84.2

TABLE 64.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF TALL FESCUE CULTIVARS 1/  
GROWN UNDER NO TRAFFIC STRESS AT AMES, IA 2/  
2019 DATA

NAME	APR_29	MAY_22	JULY_12	AUG_20	SEPT_30	OCT_4	NOV_6	MEAN
FIREHAWK SLT	52.0	56.7	88.3	98.7	98.7	98.0	96.7	84.1
PALOMAR	60.7	63.7	87.3	96.0	97.3	93.7	89.3	84.0
DLFPS-321/3695	61.3	68.3	78.0	96.7	96.0	92.7	94.0	83.9
RAD-TF105	53.0	59.0	91.7	96.3	97.0	95.3	93.3	83.7
ATF1768	53.7	54.3	90.7	97.3	97.3	97.3	94.7	83.6
RC4	47.3	56.3	96.0	97.0	97.7	96.3	94.7	83.6
FAIRFIELD (SETF104)	47.7	65.3	86.0	98.0	97.7	95.7	92.0	83.2
PPG-TF 337	47.7	55.7	86.3	98.7	98.3	97.7	96.3	83.0
PST-5MINK	46.7	63.0	89.3	98.3	98.0	94.3	91.0	83.0
RAD-TF131	52.3	62.3	80.0	96.7	98.0	94.3	96.7	82.9
NAI-ST5	43.0	63.3	81.7	97.7	99.0	97.3	97.3	82.8
RAPTOR III	51.7	56.7	83.3	98.3	98.3	95.3	94.3	82.6
MOONDANCE GLX	46.0	53.3	91.0	98.0	98.7	96.3	94.3	82.5
ENDGAME (3N1)	50.3	58.3	82.3	98.7	97.7	97.0	92.7	82.4
COPIOUS TF	35.7	64.0	89.7	98.3	98.7	94.3	94.7	82.2
TANGO	47.7	55.3	88.0	96.7	97.7	94.3	95.0	82.1
HELLCAT GLR (PST-5E6)	49.0	48.3	89.3	95.0	97.0	97.3	95.0	81.6
PST-5GQ	48.7	60.0	82.7	96.3	94.0	94.3	95.3	81.6
TOUGH (NAI-TUE)	45.7	55.3	87.7	97.0	98.0	91.7	94.3	81.4
GLX ACED (PST-5DART)	42.7	48.0	89.3	98.0	98.3	96.3	96.0	81.2
JT 517	52.0	63.3	80.0	95.3	97.3	89.7	91.0	81.2
BULLSEYE	48.7	56.0	87.7	97.7	97.3	91.7	88.7	81.1
NAI-FQZ-17	40.7	62.3	81.7	98.0	98.0	95.0	92.3	81.1
SE5STAR	41.3	57.3	88.7	97.7	99.0	87.0	95.0	80.9
TAR HEEL III (PST-5THM)	45.7	68.7	74.7	96.3	88.3	96.7	95.0	80.8
EXTRAVAGANZA (PST-5MCMO)	37.3	51.7	89.7	98.0	98.3	95.0	95.0	80.7
RAD-TF 115 (TURBO SS)	47.0	57.0	82.0	93.7	97.7	92.0	92.0	80.2
GRAND PRIX (FC15-01P)	41.3	57.0	79.7	96.7	97.3	95.3	91.3	79.8
PST-5TRN	31.7	58.0	87.7	96.3	98.0	96.3	90.3	79.8
BATTLE HAWK (NAI-ROS4)	37.7	51.3	91.0	95.3	97.0	88.3	96.0	79.5
DYNAMITE G-LS (PPG-TF 254)	39.3	61.0	72.7	95.3	93.3	97.7	97.0	79.5
3B2	32.3	70.0	82.3	91.3	91.3	97.0	91.7	79.4
BAR-FA8230	47.3	50.0	72.0	97.3	97.3	95.0	93.0	78.9
PROVIDENCE (GO-RH20)	37.7	55.3	74.0	97.0	98.7	96.3	93.3	78.9
PST-5DC24	52.0	40.3	82.7	93.0	93.3	96.3	92.3	78.6
PST-5DZM	37.3	51.3	81.0	95.7	98.0	96.0	90.7	78.6
LAFAYETTE (GO-AOMK)	41.7	55.3	78.0	96.7	97.3	88.3	90.7	78.3
AVENGER III (PPG-TF 308)	43.7	40.7	91.3	96.3	93.0	91.3	90.7	78.1
LSD VALUE	51.1	38.5	46.3	4.6	15.5	12.8	14.7	15.0
C.V. (%)	27.5	21.8	10.3	1.8	3.3	3.9	4.1	6.2

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

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

## APPENDIX TABLE.

SUMMARY OF TURFGRASS QUALITY RATINGS FOR TALL FESCUE CULTIVARS \*/  
2019-23 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/
3B2	5.9	13.0	FIERCE (K18-RS6)	6.3	47.8
5LSS	6.2	34.8	FINELAWN SUPREME (RH3)	6.2	39.1
A-TF31	5.5	4.3	FIRECRACKER G-LS (PPG-TF 315)	6.2	47.8
AST8118LM	5.5	4.3	FIREHAWK SLT	6.0	21.7
AST8218LM	5.6	4.3	FIRENZA II (PPG-TF 244)	6.3	43.5
ATF1768	5.8	0.0	GALACTIC (SESCR1)	6.1	34.8
ATF2116	5.7	8.7	GALLARDO (DLFPS-TF/3550)	6.2	39.1
AVENGER III (PPG-TF 308)	6.2	30.4	GEM (PPG-TF 316)	6.2	34.8
BANDIT	5.6	8.7	GLX ACED (PST-5DART)	6.0	8.7
BAR FA 8228	5.4	8.7	GLX REVIVE (PST-5GLBS)	6.0	21.7
BAR-FA8230	5.6	8.7	GRAND PRIX (FC15-01P)	5.4	0.0
BARNOBLE (BAR 9FE MAS)	5.4	0.0	GRANDE 3	5.9	4.3
BATTLE HAWK (NAI-ROS4)	6.2	47.8	GRO-PRO (SE53D2)	5.7	4.3
BENTLEY (DLFPS-321/3679)	6.0	8.7	HELLCAT GLR (PST-5E6)	5.9	21.7
BIRMINGHAM	5.6	4.3	HEMI	6.0	4.3
BLADERUNNER 3 (DLFPS-321/3701)	6.2	34.8	HOUNDOG NINE (DLFPS-321/3702)	6.1	39.1
BONFIRE (JS DTT)	6.3	56.5	JT 233	6.0	8.7
BRAVO 2	5.7	4.3	JT 517	5.8	13.0
BULLSEYE	5.6	4.3	K18-NSE	6.1	43.5
BULLSEYE LTZ	6.2	30.4	K18-WB1	6.1	17.4
CAPITAN (DLFPS-321/3705)	6.3	65.2	KENTUCKY-31	4.2	0.0
CLASH (AH1)	6.3	56.5	KIZZLE (K18-ROE)	6.0	8.7
COPIOUS TF	5.6	0.0	LAFAYETTE (GO-AOMK)	5.7	4.3
DAYBREAK (AH2)	6.4	73.9	LBF	5.7	8.7
DEGAS (LTP-TF-111)	6.2	26.1	LIFEGUARD	5.9	8.7
DLFPS-321/3693	6.1	26.1	MONUMENT (PST-5SQB)	5.7	4.3
DLFPS-321/3694	5.9	4.3	MOONDANCE GLX	5.7	8.7
DLFPS-321/3695	6.1	34.8	NAI-FQZ-17	5.5	0.0
DLFPS-321/3703	5.9	17.4	NAI-ST5	6.1	34.8
DLFPS-321/3706	6.1	21.7	NATURALLY GREEN	5.6	0.0
DLFPS-321/3707	6.2	39.1	NT-3	6.2	30.4
DLFPS-321/3708	6.2	39.1	OG-WALK	5.2	0.0
DLFPS-TF/3553	6.2	34.8	OKEEFE (LTP-TF-122)	6.1	34.8
DRAGSTER	6.1	26.1	ORIOLE (PST-5BYOB)	5.9	13.0
DYNAMITE G-LS (PPG-TF 254)	6.2	39.1	PADRE 2	6.0	17.4
ENDGAME (3N1)	5.9	21.7	PALOMAR	5.3	4.3
ESCALADE	5.4	4.3	PARAMOUNT	6.0	13.0
ESSENTIAL 2 (DLFPS-TF/3552)	6.2	39.1	PPG-TF 231	6.0	26.1
ESTRENA	5.8	13.0	PPG-TF 249	6.1	39.1
EXPANSE (PPG-TF 262)	6.3	65.2	PPG-TF 312	6.0	34.8
EXTRAVAGANZA (PST-5MCMO)	6.0	21.7	PPG-TF 318	6.1	21.7
FAIRFIELD (SETF104)	5.9	8.7	PPG-TF 337	6.2	30.4
FALCON SUPREME (RH1)	6.2	30.4	PRO GOLD	5.8	4.3
FASTLANE (BY-TF-169)	6.2	56.5	PROVIDENCE (GO-RH20)	6.3	47.8
FAYETTE	5.8	17.4	PST-5DC24	5.7	4.3

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR TALL FESCUE CULTIVARS  
 (CONT'D) 2019-23 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
PST-5DZM	5.7	4.3
PST-5GQ	5.9	8.7
PST-5MINK	5.6	4.3
PST-5TRN	5.9	13.0
RACEWAY (DLFPS-321/3696)	6.1	26.1
RAD-TF 115 (TURBO SS)	5.4	4.3
RAD-TF105	5.8	4.3
RAD-TF131	5.5	4.3
RAPTOR III	6.0	13.0
RAPTOR LS (PPG-TF 336)	6.2	47.8
RC4	6.2	34.8
RDC	6.2	43.5
RHF	6.2	39.1
RHL2	6.2	47.8
ROVER (PPG-TF 306)	6.3	47.8
ROWDIER (DLFPS-321/3699)	6.1	21.7
RS1	6.2	43.5
SE5STAR	5.6	0.0
SERENADE (PPG-TF 320)	6.3	52.2
SETFM2	5.5	13.0
SETFM3	5.8	8.7
SOUTHSIDE (PPG-TF 267)	6.3	52.2
SPYDER 2LS (ZRC1)	6.3	52.2
SR 8700 (TMT1)	6.1	26.1
STEALTH (PPG-TF 238)	6.2	43.5
SYMPHONY (PPG-TF 305)	6.2	34.8
TALLADEGA II (NAI-3N2)	6.0	8.7
TANGO	5.7	4.3
TANK (PPG-TF 338)	6.2	43.5
TAR HEEL III (PST-5THM)	5.8	8.7
TD2	6.3	65.2
TEACHER (PPG-TF 313)	6.2	52.2
TITAN GLX (TF445)	6.3	43.5
TITAN MAX (TF456)	6.2	47.8
TITANIUM G-LS (PPG-TF 255)	6.3	65.2
TOPSHELF (BGR-TF3)	5.6	8.7
TOUGH (NAI-TUE)	5.8	13.0
TRIAD (PPG-TF 323)	6.2	39.1
TYCOON (COL-TF-148)	6.2	52.2
VALSETZ (PPG-TF 257)	6.1	26.1
XANADU (JT 268 )	6.3	69.6
ZION (BAR TF 134)	6.2	39.1
LSD VALUE	0.2	
C.V. (%)	8.5	

\*/ 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.