

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 FOR 2020

State/Province	Location	Code
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
Mississippi	Mississippi State	MS1
Missouri	Columbia	MO1
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	Kennett Square	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 Pickseed USA	*47	Monument (PST-5SQB)	Pure Seed Testing	91	PPG-TF 306	Peak Plant Genetics LLC
4	DLFPS-321/3694	DLF Pickseed USA	48	PST-5DZM	Pure Seed Testing	92	PPG-TF 318	Peak Plant Genetics LLC
5	DLFPS-321/3695	DLF Pickseed USA	49	PST-5GLBS	Pure Seed Testing	*93	Bullseye	Standard
6	TMT1	DLF Pickseed 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 Pickseed USA	53	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	BGR-TF3	Berger International	*55	Copious TF	Site One Land. Supply	99	GO-RH20	Grassland Oregon Seed
12	ATF1768	Pennington Seed	*56	Padre 2	Site One Land. Supply	*100	Birmingham	Grassland Oregon Seed
13	DLFPS-TF/3550	DLF Pickseed USA	*57	Bravo 2	Site One Land. Supply	101	GO-AOMK	Grassland Oregon Seed
14	DLFPS-TF/3552	DLF Pickseed USA	58	NAI-FQZ-17	Lakeside Ag. Ventures	102	NAI-3N2	Columbia Seeds
15	DLFPS-TF/3553	DLF Pickseed USA	59	DLFPS-321/3705	DLF Pickseed USA	103	NAI-ROS4	Landmark Turf & Native Seed
16	DLFPS-321/3679	DLF Pickseed USA	60	DLFPS-321/3706	DLF Pickseed USA	104	NAI-TUE	Columbia Seeds
17	LBF	Tualatin Valley Seeds	61	DLFPS-321/3707	DLF Pickseed USA	105	NAI-ST5	Landmark Turf & Native Seed
18	TD2	Pennington Seed	62	DLFPS-321/3708	DLF Pickseed USA	106	SE53D2	Smith Seed Services, LLC
19	DLFPS-321/3696	DLF Pickseed USA	*63	Zion (BAR TF 134)	Barenbrug Research	107	SE5STAR	Smith Seed Services, LLC
20	DLFPS-321/3699	DLF Pickseed USA	64	BAR-FA8230	Barenbrug Research	108	SESCR1	Smith Seed Services, LLC
*21	Grande 3	DLF Pickseed USA	65	AH1	Landmark Turf & Native Seed	109	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	Jacklin Seed by Simplot	67	PPG-TF 262	Landmark Turf & Native Seed	111	SETFM3	Smith Seed Services, LLC
*24	Bonfire (JS DTT)	Jacklin Seed by Simplot	68	PPG-TF 267	Landmark Turf & Native Seed	112	3B2	ProSeeds Marketing
25	RDC	Oregro	69	AH2	Brett Young Seeds	113	RAD-TF105	Radix Research
26	BAR 9FE MAS	Barenbrug Research	70	K18-RS6	The Scotts Company	114	RAD-TF131	Radix Research
27	BAR FA 8228	Barenbrug Research	71	K18-WB1	The Scotts Company	115	RHL2	Semillas Fito
28	COL-TF-148	Columbia Seeds	72	RH1	ProSeeds Marketing Inc.	*116	Raptor III	Standard
*29	O'Keefe (LTP-TF-122)	Lebanon Seaboard Corp.	73	RH3	ProSeeds Marketing Inc.	117	RHF	Semillas Dalmau
*30	Degas (LTP-TF-111)	Lebanon Seaboard Corp.	74	JT 233	Vista Seed Partners, LLC	118	PPG-TF 313	Columbia Seeds
*31	Kizzle (K18-ROE)	The Scotts Company	*75	Xanadu (JT 268)	Barenbrug USA	119	PPG-TF 320	Peak Plant Genetics
32	K18-NSE	The Scotts Company	76	PPG-TF 244	Integra Turf, Inc.	120	PPG-TF 323	Columbia Seeds
33	BY-TF-169	Brett Young	77	PPG-TF 305	Integra Turf, Inc.	121	PPG-TF 338	Columbia Seeds
34	DLFPS-321/3701	DLF Pickseed USA	78	PPG-TF 316	Lewis Seed Co.	122	Estrena	Semillas Dalmau
35	DLFPS-321/3702	DLF Pickseed USA	79	RC4	Semillas Fito	*123	AST8118LM	Allied Seed LLC
36	DLFPS-321/3703	DLF Pickseed USA	80	PPG-TF 257	Vista Seed Partners	*124	AST8218LM	Allied Seed LLC
37	PST-STRN	Pure Seed Testing	*81	Stealth (PPG-TF 238)	Mountain View Seeds	125	A-TF31	Allied Seed LLC
38	PST-5GQ	Pure Seed Testing	*82	Raptor LS (PPG-TF 336)	Mountain View Seeds	*126	Palomar	Oregro Seed
39	PST-5MCMO	Pure Seed Testing	*83	Avenger III (PPG-TF 308)	Mountain View Seeds	*127	Escalade	Oregro Seed
*40	Pro Gold	Integrated Seed Growers	*84	Titanium G-LS (PPG-TF 255)	Mountain View Seeds	*128	OG-WALK	Oregro Seed
41	PST-5E6	Pure Seed Testing	85	PPG-TF 312	Mountain View Seeds	129	TF445	Smith Seed Services
42	PST-5THM	Pure Seed Testing	*86	Firecracker G-LS (PPG-TF 315)	Mountain View Seeds	130	TF456	Smith Seed Services
43	PST-5BYOB	Brett Young	*87	Dynamite G-LS (PPG-TF 254)	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 2021

TABLE A.

2020 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
CT1	-	-	-	-	-	-	-	-
DE1	-	-	-	-	-	-	-	-
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	SAND	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
IA2	SAND	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
IA3	SAND	7.1-7.5	0-60	0-150	2.1-3.0	DENSE 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+	NO IRRIGATION
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	SANDY LOAM	6.6-7.0	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	4.6-5.5	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	376-500	3.1-4.0	FULL SUN	1.1-1.5	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	4.1-5.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
ON1	-	7.1-7.5	0-60	0-150	-	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
OR1	SILTY CLAY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
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	-	-	-	-	FULL SUN	2.6-3.0	TO PREVENT STRESS
UT2	SILT LOAM AND SILT	-	-	-	-	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	0-150	0.0-1.0	FULL SUN	3.1-3.5	NO IRRIGATION
VA2	SILT LOAM AND SILT	5.6-6.0	0-60	0-150	0.0-1.0	FULL SUN	3.1-3.5	NO IRRIGATION

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2020

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
CT1					X	X	X	X	X	X	X	
DE1				X	X	X	X	X	X	X		
GA1	X	X	X	X	X	X	X	X	X	X	X	X
IA1				X	X	X	X	X	X	X	X	
IA2				X	X	X	X	X	X	X	X	
IA3				X	X	X	X	X	X	X	X	
IN1				X	X	X	X	X	X	X	X	
KS1				X	X	X	X	X	X			
KY1			X	X	X	X	X	X	X	X		
MA1					X	X	X	X	X	X	X	X
MD1				X	X	X	X		X	X	X	
MI1					X	X	X		X	X		
MO1				X	X	X	X	X	X	X		
MS1	X	X	X	X	X	X	X	X	X	X	X	X
NC1		X			X	X	X	X	X	X	X	
NE1						X	X	X	X	X		
NJ1				X	X	X	X	X	X	X		
NJ2				X	X	X	X	X	X	X	X	
NJ3												
OK1		X	X	X	X	X	X	X	X	X	X	X
ON1						X	X	X	X	X	X	
OR1			X	X	X	X	X	X	X	X	X	X
PA2			X	X	X	X	X	X	X	X	X	
TN1	X	X	X	X	X	X	X	X	X	X	X	X
UT1					X	X	X	X	X	X		
UT2					X	X	X	X	X	X		
VA1					X	X	X	X	X	X		
VA2					X	X	X	X	X	X		

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2020

LOCATION	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	BROWN PATCH WARM TEMP.
CT1	X		X		X	X					X
DE1	X		X								
GA1	X										
IA1		X	X	X	X	X	X	X	X		
IA2	X	X	X	X	X	X	X	X	X		
IA3		X		X	X	X	X	X	X		
IN1		X	X	X	X						X
KS1	X										
KY1											
MA1											
MD1											
MI1	X					X					
MO1	X										X
MS1	X		X	X						X	
NC1	X		X	X		X					X
NE1	X			X		X					
NJ1		X									
NJ2	X		X			X					X
NJ3											
OK1	X		X	X	X	X	X	X	X	X	X
ON1	X	X	X		X	X	X	X	X		
OR1	X	X	X		X						
PA2	X	X	X				X		X		
TN1	X		X	X	X	X	X	X	X		
UT1	X	X	X			X					
UT2		X						X	X		
VA1											
VA2											

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2020

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	UNIFORMITY RATINGS	BROWN JUNE	PATCH JULY	RATINGS AUGUST	WEAR MAY	TOLERANCE JULY	RATINGS OCTOBER
CT1			X								
DE1			X								
GA1											
IA1	X	X	X								
IA2											
IA3	X	X	X								
IN1											
KS1											
KY1											
MA1									X	X	X
MD1											
MI1		X									
MO1											
MS1											
NC1						X	X	X			
NE1											
NJ1											
NJ2					X						
* NJ3											
OK1	X	X	X	X							
ON1			X								
OR1											
PA2			X								
TN1											
UT1			X								
UT2											
VA1											
VA2											

* MORE DATA FOR NJ3 IN TABLE 14.

TABLE 1. 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 #	NJ1
PPG-TF 313	118	7.9
K18-RS6	70	7.8
TD2	18	7.6
* SPYDER 2LS (ZRC1)	89	7.6
K18-NSE	32	7.5
* XANADU (JT 268)	75	7.5
* STEALTH (PPG-TF 238)	81	7.4
PPG-TF 262	67	7.4
DLFPS-321/3707	61	7.2
DLFPS-321/3693	3	7.2
RDC	25	7.2
PPG-TF 312	85	7.2
PPG-TF 267	68	7.2
* DYNAMITE G-LS (PPG-TF 254)	87	7.2
AH2	69	7.1
RC4	79	7.1
AH1	65	7.1
* PARAMOUNT	2	7.1
RH3	73	7.0
DLFPS-TF/3552	14	7.0
PPG-TF 338	121	7.0
* OKEEFE (LTP-TF-122)	29	7.0
* BULLSEYE LTZ	96	7.0
5LSS	10	7.0
* FIRECRACKER G-LS (PPG-TF 315)	86	6.9
K18-WB1	71	6.9
GO-RH20	99	6.9
RS1	9	6.9
DLFPS-321/3696	19	6.9
RHL2	115	6.9
PPG-TF 231	90	6.9
PPG-TF 244	76	6.8
DLFPS-321/3705	59	6.8
COL-TF-148	28	6.8
PPG-TF 337	88	6.8
PPG-TF 323	120	6.7
* TITANIUM G-LS (PPG-TF 255)	84	6.7
DLFPS-TF/3550	13	6.7
PPG-TF 306	91	6.7
DLFPS-TF/3553	15	6.7
TMT1	6	6.7
DLFPS-321/3701	34	6.7
* DEGAS (LTP-TF-111)	30	6.7
PPG-TF 318	92	6.6
* BONFIRE (JS DTT)	24	6.6
DLFPS-321/3694	4	6.6
TF456	130	6.6
RHF	117	6.6
* ZION (BAR TF 134)	63	6.6
* RAPTOR LS (PPG-TF 336)	82	6.6

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/		
NAME	ENTRY #	NJ1
* AVENGER III (PPG-TF 308)	83	6.6
NAI-ROS4	103	6.6
NAI-3N2	102	6.6
DLFPS-321/3699	20	6.5
PPG-TF 257	80	6.5
RH1	72	6.5
TF445	129	6.5
PPG-TF 316	78	6.4
DLFPS-321/3703	36	6.4
DLFPS-321/3706	60	6.4
BY-TF-169	33	6.4
PPG-TF 249	66	6.4
PPG-TF 320	119	6.3
PPG-TF 305	77	6.3
NT-3	8	6.3
* DRAGSTER	98	6.3
ESTRENA	122	6.3
* RAPTOR III	116	6.3
DLFPS-321/3695	5	6.2
DLFPS-321/3702	35	6.2
* PADRE 2	56	6.1
JT 233	74	6.1
DLFPS-321/3708	62	6.0
DLFPS-321/3679	16	6.0
* FIREHAWK SLT	94	5.9
SESCR1	108	5.8
NAI-ST5	105	5.8
* KIZZLE (K18-ROE)	31	5.8
* GLX ACED (PST-5DART)	50	5.8
3B2	112	5.7
3N1	53	5.7
* HEMI	95	5.5
SETF104	109	5.5
* GRANDE 3	21	5.4
* FAYETTE	22	5.4
PST-5TRN	37	5.2
NAI-TUE	104	5.1
PST-5MCMO	39	5.1
* LIFEGUARD	44	5.1
RAD-TF105	113	5.1
PST-5GQ	38	5.0
* PRO GOLD	40	5.0
PST-5BYOB	43	4.9
PST-5GLBS	49	4.9
PST-5E6	41	4.8
* MONUMENT (PST-5SQB)	47	4.7
GO-AOMK	101	4.7
RAD-TF131	114	4.6
* MOONDANCE GLX	46	4.6
PST-5DZM	48	4.6

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

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

NAME	ENTRY #	NJ1
A-TF31	125	4.6
SETFM3	111	4.5
* TANGO	52	4.4
* COPIOUS TF	55	4.4
* BRAVO 2	57	4.4
* BULLSEYE	93	4.3
SE53D2	106	4.3
PST-5DC24	51	4.3
SE5STAR	107	4.3
LBF	17	4.2
* BIRMINGHAM	100	4.1
PST-5THM	42	4.1
JT 517	23	4.1
ATF2116	7	4.0
RAD-TF115 (TURBO SS)	97	4.0
BGR-TF3	11	4.0
ATF1768	12	4.0
PST-5MINK	45	3.9
NAI-FQZ-17	58	3.9
* AST8218LM	124	3.9
SETFM2	110	3.8
* AST8118LM	123	3.8
* NATURALLY GREEN	1	3.6
* BANDIT	54	3.6
BAR-FA8230	64	3.3
* GRAND PRIX (FC15-01P)	131	3.3
BAR 9FE MAS	26	3.1
* ESCALADE	127	3.0
BAR FA 8228	27	2.6
* PALOMAR	126	2.3
* OG-WALK	128	2.3
* KENTUCKY-31	132	0.5
LSD VALUE		0.9
C.V. (%)		9.3

* 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

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 */
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	ENTRY #	NJ2	MD1	MO1	MEAN
SPYDER 2LS (ZRC1)	89	6.4	7.6	6.5	7.0
PPG-TF 313	118	6.4	7.6	6.3	7.0
K18-RS6	70	6.5	7.7	6.5	6.9
TD2	18	6.4	7.6	6.5	6.8
XANADU (JT 268)	75	6.3	7.5	6.4	6.7
STEALTH (PPG-TF 238)	81	6.3	7.5	6.4	6.7
DYNAMITE G-LS (PPG-TF 254)	87	6.1	7.3	6.3	6.7
PPG-TF 262	67	6.2	7.4	6.4	6.7
PPG-TF 338	121	6.0	7.3	6.3	6.7
AH2	69	6.1	7.4	6.4	6.7
K18-NSE	32	6.2	7.4	6.3	6.6
GO-RH20	99	6.0	7.2	6.3	6.6
BULLSEYE LTZ	96	6.0	7.2	6.2	6.6
TITANIUM G-LS (PPG-TF 255)	84	5.9	7.2	6.3	6.6
PPG-TF 323	120	5.9	7.2	6.3	6.6
PPG-TF 267	68	6.1	7.3	6.3	6.6
DLFPS-321/3707	61	6.1	7.3	6.3	6.6
AH1	65	6.1	7.3	6.3	6.6
FIRECRACKER G-LS (PPG-TF 315)	86	5.9	7.2	6.2	6.6
DLFPS-321/3705	59	6.0	7.3	6.4	6.6
PPG-TF 312	85	6.0	7.2	6.0	6.6
RDC	25	6.1	7.3	6.2	6.5
DLFPS-321/3693	3	6.1	7.3	6.2	6.5
PPG-TF 306	91	5.9	7.2	6.2	6.5
RC4	79	6.0	7.3	6.2	6.5
DLFPS-TF/3552	14	6.0	7.3	6.3	6.5
RH3	73	6.0	7.3	6.3	6.5
TF456	130	5.8	7.1	6.2	6.5
PPG-TF 244	76	6.0	7.2	6.3	6.5
OKEEFE (LTP-TF-122)	29	6.0	7.2	6.2	6.5
PPG-TF 337	88	5.8	7.1	6.1	6.5
RHL2	115	5.8	7.1	6.1	6.5
RS1	9	5.9	7.2	6.2	6.5
5LSS	10	6.0	7.2	6.2	6.4
PARAMOUNT	2	6.0	7.2	6.2	6.4
PPG-TF 231	90	5.8	7.1	6.0	6.4
TF445	129	5.8	7.1	6.2	6.4
DLFPS-TF/3550	13	5.9	7.2	6.2	6.4
ZION (BAR TF 134)	63	5.8	7.1	6.3	6.4
BONFIRE (JS DTT)	24	5.8	7.1	6.2	6.4
AVENGER III (PPG-TF 308)	83	5.8	7.1	6.2	6.4
DLFPS-321/3701	34	5.8	7.1	6.2	6.4
DLFPS-321/3696	19	5.9	7.2	6.2	6.4
K18-WB1	71	5.9	7.2	6.1	6.4
RHF	117	5.8	7.0	6.1	6.4
COL-TF-148	28	5.9	7.1	6.2	6.4
DLFPS-TF/3553	15	5.8	7.1	6.2	6.4
NAI-ROS4	103	5.7	7.0	6.1	6.4
PPG-TF 318	92	5.7	7.0	6.0	6.4
PPG-TF 320	119	5.7	7.0	6.2	6.4

TABLE 2. 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 #	NJ2	MD1	MO1	MEAN
RH1	72	5.8	7.1	6.2	6.4
DEGAS (LTP-TF-111)	30	5.8	7.1	6.2	6.4
TMT1	6	5.8	7.1	6.1	6.3
RAPTOR LS (PPG-TF 336)	82	5.8	7.0	6.1	6.3
PPG-TF 316	78	5.7	7.0	6.2	6.3
DLFPS-321/3699	20	5.7	7.0	6.1	6.3
BY-TF-169	33	5.7	7.0	6.2	6.3
NAI-3N2	102	5.6	6.9	6.0	6.3
PPG-TF 305	77	5.7	7.0	6.2	6.3
PPG-TF 257	80	5.7	7.0	6.1	6.3
DLFPS-321/3694	4	5.7	7.0	6.0	6.2
RAPTOR III	116	5.6	6.9	6.0	6.2
PPG-TF 249	66	5.6	6.9	6.1	6.2
NT-3	8	5.6	6.9	6.1	6.2
DRAGSTER	98	5.6	6.9	6.0	6.2
DLFPS-321/3706	60	5.6	6.9	6.0	6.2
DLFPS-321/3695	5	5.6	6.9	6.1	6.2
DLFPS-321/3702	35	5.5	6.9	6.1	6.2
DLFPS-321/3703	36	5.6	6.9	5.9	6.1
DLFPS-321/3708	62	5.5	6.8	6.0	6.1
PADRE 2	56	5.5	6.8	6.0	6.1
JT 233	74	5.5	6.8	6.0	6.1
ESTRENA	122	5.4	6.7	5.7	6.0
NAI-ST5	105	5.4	6.7	6.0	6.0
SESCR1	108	5.3	6.7	6.0	6.0
DLFPS-321/3679	16	5.4	6.7	5.9	6.0
FIREHAWK SLT	94	5.3	6.6	5.8	6.0
GLX ACED (PST-5DART)	50	5.3	6.7	5.9	6.0
3B2	112	5.3	6.6	5.9	5.9
3N1	53	5.3	6.6	5.9	5.9
KIZZLE (K18-ROE)	31	5.3	6.6	5.8	5.9
GRANDE 3	21	5.1	6.5	5.8	5.8
HEMI	95	5.1	6.5	5.8	5.8
PST-5TRN	37	5.0	6.4	5.8	5.7
SETF104	109	5.0	6.4	5.7	5.7
PST-5MCMO	39	4.9	6.4	5.8	5.7
FAYETTE	22	5.0	6.4	5.7	5.7
LIFEGUARD	44	4.9	6.3	5.7	5.6
NAI-TUE	104	4.9	6.3	5.7	5.6
PST-5GQ	38	4.9	6.3	5.7	5.6
PST-5GLBS	49	4.8	6.3	5.7	5.6
PST-5BYOB	43	4.8	6.2	5.7	5.6
PST-5E6	41	4.7	6.2	5.7	5.5
PRO GOLD	40	4.8	6.2	5.6	5.5
RAD-TF105	113	4.8	6.2	5.6	5.5
MOONDANCE GLX	46	4.6	6.0	5.5	5.4
MONUMENT (PST-5SQB)	47	4.6	6.0	5.5	5.4
PST-5DZM	48	4.5	6.0	5.4	5.3
TANGO	52	4.4	5.9	5.4	5.3
GO-AOMK	101	4.5	6.0	5.4	5.2

TABLE 2. 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 #	NJ2	MD1	MO1	MEAN
SETFM3	111	4.5	6.0	5.5	5.2
PST-5THM	42	4.3	5.8	5.5	5.2
PST-5DC24	51	4.4	5.8	5.4	5.2
BRAVO 2	57	4.4	5.8	5.4	5.2
COPIOUS TF	55	4.4	5.8	5.3	5.2
LBF	17	4.3	5.8	5.4	5.1
JT 517	23	4.3	5.8	5.4	5.1
ATF2116	7	4.2	5.8	5.4	5.1
ATF1768	12	4.2	5.8	5.4	5.1
SE53D2	106	4.4	5.9	5.4	5.1
RAD-TF131	114	4.4	5.8	5.2	5.1
BULLSEYE	93	4.3	5.8	5.3	5.1
A-TF31	125	4.4	5.8	5.2	5.1
SE5STAR	107	4.3	5.8	5.3	5.1
PST-5MINK	45	4.1	5.6	5.3	5.0
BGR-TF3	11	4.1	5.6	5.2	5.0
NAI-FQZ-17	58	4.1	5.6	5.2	5.0
BIRMINGHAM	100	4.2	5.7	5.3	5.0
NATURALLY GREEN	1	4.0	5.5	5.2	4.9
AST8218LM	124	4.1	5.7	5.3	4.9
BAR-FA8230	64	3.9	5.5	5.3	4.9
BANDIT	54	3.9	5.4	5.1	4.8
AST8118LM	123	4.0	5.6	5.2	4.8
SETFM2	110	4.0	5.5	5.1	4.7
RAD-TF115 (TURBO SS)	97	4.0	5.4	4.9	4.7
BAR 9FE MAS	26	3.6	5.2	5.0	4.6
GRAND PRIX (FC15-01P)	131	3.7	5.2	5.0	4.5
BAR FA 8228	27	3.3	4.9	4.8	4.4
ESCALADE	127	3.5	5.1	4.9	4.3
PALOMAR	126	3.1	4.8	4.7	3.9
OG-WALK	128	3.1	4.8	4.7	3.9
KENTUCKY-31	132	1.7	3.5	3.6	2.6
LSD VALUE		0.9	0.9	0.9	0.9
C.V. (%)		10.2	8.1	9.1	9.0

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

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

TABLE 3.

TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2020 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	ENTRY #	MS1	NAME	ENTRY #	MS1	NAME	ENTRY #	MS1
SPYDER 2LS (ZRC1)	89	4.6	FIRECRACKER G-LS (PPG-TF 315)	86	4.3	FAYETTE	22	3.9
DLFPS-321/3705	59	4.5	DLFPS-321/3693	3	4.3	SETF104	109	3.9
AH2	69	4.5	NAI-ROS4	103	4.3	MOONDANCE GLX	46	3.9
TD2	18	4.5	NT-3	8	4.3	PRO GOLD	40	3.9
K18-RS6	70	4.5	DLFPS-321/3696	19	4.3	RAD-TF105	113	3.9
TITANIUM G-LS (PPG-TF 255)	84	4.5	PPG-TF 337	88	4.3	ESTRENA	122	3.9
PPG-TF 323	120	4.5	PPG-TF 249	66	4.3	PST-5THM	42	3.9
XANADU (JT 268)	75	4.5	RHF	117	4.3	SETFM3	111	3.9
STEALTH (PPG-TF 238)	81	4.5	DLFPS-321/3702	35	4.3	ATF1768	12	3.8
PPG-TF 262	67	4.5	TMT1	6	4.3	SE53D2	106	3.8
ZION (BAR TF 134)	63	4.4	DLFPS-321/3695	5	4.3	ATF2116	7	3.8
PPG-TF 244	76	4.4	DLFPS-321/3708	62	4.3	MONUMENT (PST-5SQB)	47	3.8
AH1	65	4.4	K18-WB1	71	4.3	JT 517	23	3.8
PPG-TF 320	119	4.4	PARAMOUNT	2	4.3	TANGO	52	3.8
TF456	130	4.4	PPG-TF 257	80	4.3	PST-5DC24	51	3.8
BONFIRE (JS DTT)	24	4.4	NAI-ST5	105	4.2	PST-5DZM	48	3.8
PPG-TF 338	121	4.4	RAPTOR III	116	4.2	BAR-FA8230	64	3.8
PPG-TF 306	91	4.4	SESCRI	108	4.2	LBF	17	3.7
PPG-TF 267	68	4.4	RHL2	115	4.2	BRAVO 2	57	3.7
DLFPS-321/3701	34	4.4	PADRE 2	56	4.2	GO-AOMK	101	3.7
RH1	72	4.4	JT 233	74	4.2	AST8218LM	124	3.7
GO-RH20	99	4.4	PPG-TF 318	92	4.2	BULLSEYE	93	3.7
TF445	129	4.4	DLFPS-321/3706	60	4.2	SE5STAR	107	3.7
DLFPS-TF/3550	13	4.4	DRAGSTER	98	4.2	BIRMINGHAM	100	3.7
DYNAMITE G-LS (PPG-TF 254)	87	4.4	GLX ACED (PST-5DART)	50	4.2	PST-5MINK	45	3.7
BY-TF-169	33	4.4	3N1	53	4.2	NATURALLY GREEN	1	3.7
DLFPS-TF/3552	14	4.4	DLFPS-321/3694	4	4.2	COPIOUS TF	55	3.7
RH3	73	4.4	PPG-TF 231	90	4.1	NAI-FQZ-17	58	3.7
DLFPS-TF/3553	15	4.4	3B2	112	4.1	BGR-TF3	11	3.6
DLFPS-321/3707	61	4.4	PPG-TF 312	85	4.1	AST8118LM	123	3.6
PPG-TF 305	77	4.4	NAI-3N2	102	4.1	BANDIT	54	3.6
PPG-TF 316	78	4.4	PST-5MCMO	39	4.1	RAD-TF131	114	3.5
PPG-TF 313	118	4.4	PST-5TRN	37	4.1	A-TF31	125	3.5
RS1	9	4.4	DLFPS-321/3703	36	4.1	SETFM2	110	3.5
RC4	79	4.3	PST-5GLBS	49	4.1	BAR 9FE MAS	26	3.5
K18-NSE	32	4.3	DLFPS-321/3679	16	4.1	GRAND PRIX (FC15-01P)	131	3.4
DEGAS (LTP-TF-111)	30	4.3	KIZZLE (K18-ROE)	31	4.1	ESCALADE	127	3.4
RDC	25	4.3	FIREHAWK SLT	94	4.1	BAR FA 8228	27	3.4
COL-TF-148	28	4.3	GRANDE 3	21	4.1	OG-WALK	128	3.3
AVENGER III (PPG-TF 308)	83	4.3	LIFEGUARD	44	4.1	PALOMAR	126	3.3
OKEEFE (LTP-TF-122)	29	4.3	NAI-TUE	104	4.0	RAD-TF115 (TURBO SS)	97	3.3
5LSS	10	4.3	PST-5GQ	38	4.0	KENTUCKY-31	132	2.3
BULLSEYE LTZ	96	4.3	PST-5E6	41	4.0			
RAPTOR LS (PPG-TF 336)	82	4.3	HEMI	95	4.0	LSO VALUE		0.9
DLFPS-321/3699	20	4.3	PST-5BYOB	43	4.0	C.V. (%)		13.0

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

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

TABLE 4.

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	KY1	DE1	NE1	VA1	OR1	IN1	CT1	KS1	MI1	UT1	NC1	ON1	TN1	PA2	OK1	MEAN
DLFPS-321/3705	59	6.8	6.7	7.7	7.3	7.3	4.7	6.2	6.7	4.9	7.1	7.3	4.7	6.8	7.1	7.1	5.8	6.5
TITANIUM G-LS (PPG-TF 255)	84	6.7	6.7	7.7	7.3	7.3	4.7	6.1	6.6	4.9	7.1	7.2	4.7	6.8	7.0	7.1	5.8	6.5
PPG-TF 323	120	6.7	6.7	7.7	7.3	7.3	4.7	6.1	6.6	4.8	7.1	7.2	4.6	6.8	7.0	7.1	5.7	6.5
AH2	69	6.8	6.7	7.7	7.3	7.3	4.7	6.1	6.6	4.8	7.1	7.2	4.6	6.8	7.0	7.0	5.7	6.4
PPG-TF 320	119	6.6	6.6	7.6	7.2	7.2	4.6	6.1	6.6	4.8	7.0	7.2	4.6	6.8	7.0	7.1	5.7	6.4
ZION (BAR TF 134)	63	6.7	6.6	7.6	7.2	7.3	4.6	6.1	6.6	4.8	7.0	7.2	4.6	6.7	7.0	7.0	5.7	6.4
SPYDER 2LS (ZRC1)	89	6.8	6.7	7.7	7.3	7.3	4.6	6.1	6.6	4.8	7.0	7.2	4.6	6.7	6.9	6.9	5.6	6.4
TF456	130	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.8	7.0	7.1	4.6	6.7	6.9	7.0	5.7	6.4
TD2	18	6.7	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.8	7.0	7.1	4.5	6.7	6.9	6.9	5.5	6.4
BONFIRE (JS DTT)	24	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.8	7.0	7.1	4.6	6.7	6.9	7.0	5.7	6.4
BY-TF-169	33	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.8	7.0	7.1	4.6	6.7	6.9	7.0	5.7	6.4
RH1	72	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.8	7.0	7.1	4.6	6.7	6.9	7.0	5.7	6.4
TF445	129	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.7	7.0	7.1	4.6	6.7	6.9	7.0	5.7	6.4
PPG-TF 244	76	6.7	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.8	7.0	7.1	4.6	6.7	6.9	7.0	5.6	6.4
PPG-TF 306	91	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.7	7.0	7.1	4.5	6.7	6.9	7.0	5.6	6.4
DLFPS-321/3701	34	6.6	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.7	7.0	7.1	4.5	6.7	6.9	7.0	5.6	6.4
PPG-TF 305	77	6.6	6.5	7.5	7.2	7.2	4.5	6.0	6.5	4.7	7.0	7.1	4.6	6.7	6.9	7.0	5.7	6.4
K18-RS6	70	6.7	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.7	7.0	7.1	4.5	6.6	6.8	6.8	5.5	6.3
XANADU (JT 268)	75	6.7	6.6	7.6	7.2	7.2	4.6	6.0	6.5	4.7	7.0	7.1	4.5	6.6	6.9	6.8	5.5	6.3
PPG-TF 316	78	6.6	6.5	7.5	7.1	7.2	4.5	6.0	6.5	4.7	7.0	7.1	4.5	6.7	6.9	7.0	5.6	6.3
DLFPS-TF/3550	13	6.6	6.5	7.6	7.2	7.2	4.5	6.0	6.5	4.7	7.0	7.1	4.5	6.7	6.9	6.9	5.6	6.3
AH1	65	6.6	6.6	7.6	7.2	7.2	4.5	6.0	6.5	4.7	7.0	7.1	4.5	6.6	6.9	6.9	5.5	6.3
PPG-TF 262	67	6.7	6.6	7.6	7.2	7.2	4.5	6.0	6.5	4.7	7.0	7.1	4.5	6.6	6.8	6.8	5.5	6.3
STEALTH (PPG-TF 238)	81	6.7	6.6	7.6	7.2	7.2	4.5	6.0	6.5	4.7	6.9	7.1	4.5	6.6	6.8	6.8	5.5	6.3
PPG-TF 338	121	6.6	6.6	7.5	7.1	7.2	4.5	6.0	6.5	4.7	6.9	7.1	4.5	6.6	6.9	6.9	5.5	6.3
GO-RH20	99	6.6	6.5	7.5	7.1	7.2	4.5	6.0	6.5	4.7	6.9	7.1	4.5	6.6	6.9	6.9	5.6	6.3
DLFPS-TF/3553	15	6.6	6.5	7.5	7.1	7.1	4.5	6.0	6.5	4.7	6.9	7.1	4.5	6.6	6.9	6.9	5.6	6.3
PPG-TF 267	68	6.6	6.5	7.5	7.1	7.1	4.5	6.0	6.5	4.7	6.9	7.0	4.5	6.6	6.8	6.8	5.5	6.3
NAI-ST5	105	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.9	7.0	5.7	6.3
DLFPS-321/3708	62	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.9	7.0	5.6	6.3
NT-3	8	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.9	6.9	5.6	6.3
AVENGER III (PPG-TF 308)	83	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.8	6.9	5.6	6.3
DLFPS-321/3702	35	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.9	6.9	5.6	6.3
DEGAS (LTP-TF-111)	30	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.8	6.9	5.5	6.3
DLFPS-TF/3552	14	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.5	6.6	6.8	6.8	5.5	6.3
DYNAMITE G-LS (PPG-TF 254)	87	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.4	6.6	6.8	6.8	5.5	6.3
RH3	73	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.4	6.6	6.8	6.8	5.5	6.3
DLFPS-321/3695	5	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.5	6.6	6.8	6.9	5.6	6.3
RS1	9	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.7	6.9	7.0	4.4	6.6	6.8	6.8	5.5	6.3
PPG-TF 249	66	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.5	6.6	6.8	6.9	5.6	6.3
DLFPS-321/3699	20	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.4	6.6	6.8	6.9	5.5	6.3
RAPTOR LS (PPG-TF 336)	82	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.4	6.6	6.8	6.9	5.5	6.3
COL-TF-148	28	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.4	6.6	6.8	6.8	5.5	6.3
SESCR1	108	6.4	6.4	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.9	7.0	4.5	6.6	6.8	7.0	5.6	6.3

TABLE 4.
(CONT'D)

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	KY1	DE1	NE1	VA1	OR1	IN1	CT1	KS1	MI1	UT1	NC1	ON1	TN1	PA2	OK1	MEAN
PST-5GLBS	49	6.3	6.4	7.4	7.0	7.0	4.4	5.9	6.4	4.6	6.9	7.0	4.5	6.6	6.9	7.1	5.7	6.3
NAI-ROS4	103	6.5	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.4	6.6	6.8	6.9	5.5	6.3
PST-5MCMO	39	6.4	6.4	7.4	7.0	7.0	4.4	5.9	6.4	4.6	6.9	7.0	4.5	6.6	6.9	7.0	5.7	6.2
DLFPS-321/3707	61	6.6	6.5	7.5	7.1	7.1	4.5	5.9	6.4	4.6	6.9	7.0	4.4	6.5	6.8	6.8	5.4	6.2
RC4	79	6.6	6.5	7.5	7.1	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.4	6.2
RHF	117	6.5	6.4	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.5	6.2
5LSS	10	6.5	6.5	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.4	6.2
3N1	53	6.4	6.4	7.4	7.0	7.0	4.4	5.8	6.4	4.6	6.8	7.0	4.4	6.6	6.8	6.9	5.6	6.2
PST-5TRN	37	6.3	6.3	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	7.0	4.4	6.6	6.8	7.0	5.7	6.2
BULLSEYE LTZ	96	6.5	6.4	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.7	6.8	5.4	6.2
PPG-TF 337	88	6.5	6.4	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.5	6.2
OKEEFE (LTP-TF-122)	29	6.5	6.4	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.7	6.8	5.4	6.2
RAPTOR III	116	6.5	6.4	7.4	7.0	7.0	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.5	6.2
DLFPS-321/3696	19	6.5	6.4	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.7	6.8	5.4	6.2
TMT1	6	6.5	6.4	7.4	7.0	7.0	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.5	6.2
GLX ACED (PST-5DART)	50	6.4	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	7.0	4.4	6.6	6.8	6.9	5.6	6.2
PPG-TF 257	80	6.5	6.4	7.4	7.0	7.0	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.8	6.8	5.5	6.2
FIRECRACKER G-LS (PPG-TF 315)	86	6.5	6.4	7.4	7.0	7.0	4.4	5.9	6.4	4.6	6.8	7.0	4.4	6.5	6.7	6.8	5.4	6.2
RDC	25	6.5	6.5	7.4	7.0	7.1	4.4	5.9	6.4	4.6	6.8	6.9	4.4	6.5	6.7	6.7	5.4	6.2
PADRE 2	56	6.4	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	6.9	4.4	6.5	6.8	6.8	5.5	6.2
JT 233	74	6.4	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	6.9	4.4	6.5	6.8	6.8	5.5	6.2
PST-5E6	41	6.3	6.3	7.3	6.9	7.0	4.4	5.8	6.3	4.5	6.8	6.9	4.4	6.6	6.8	7.0	5.7	6.2
LIFEGUARD	44	6.3	6.3	7.3	6.9	7.0	4.4	5.8	6.3	4.5	6.8	6.9	4.4	6.6	6.8	7.0	5.6	6.2
3B2	112	6.4	6.3	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	6.9	4.4	6.5	6.8	6.9	5.6	6.2
PST-5GQ	38	6.3	6.3	7.3	6.9	7.0	4.3	5.8	6.3	4.5	6.8	6.9	4.4	6.5	6.8	7.0	5.6	6.2
K18-WB1	71	6.5	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	6.9	4.3	6.5	6.7	6.7	5.4	6.2
K18-NSE	32	6.5	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	6.9	4.3	6.4	6.7	6.6	5.3	6.2
DLFPS-321/3693	3	6.5	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.6	6.8	6.9	4.3	6.5	6.7	6.7	5.3	6.2
NAI-TUE	104	6.3	6.3	7.3	6.9	7.0	4.3	5.8	6.3	4.5	6.8	6.9	4.4	6.5	6.8	6.9	5.6	6.2
DRAGSTER	98	6.4	6.3	7.4	7.0	7.0	4.3	5.8	6.3	4.5	6.8	6.9	4.3	6.5	6.7	6.8	5.4	6.2
DLFPS-321/3706	60	6.4	6.4	7.4	7.0	7.0	4.3	5.8	6.3	4.5	6.8	6.9	4.3	6.5	6.7	6.8	5.4	6.1
GRANDE 3	21	6.3	6.3	7.3	6.9	7.0	4.3	5.8	6.3	4.5	6.8	6.9	4.4	6.5	6.7	6.9	5.6	6.1
PPG-TF 313	118	6.6	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.5	6.8	6.9	4.3	6.4	6.6	6.6	5.2	6.1
PARAMOUNT	2	6.5	6.4	7.4	7.0	7.0	4.4	5.8	6.3	4.5	6.8	6.9	4.3	6.4	6.7	6.7	5.3	6.1
PST-5BYOB	43	6.2	6.2	7.3	6.9	6.9	4.3	5.7	6.2	4.5	6.7	6.9	4.4	6.5	6.8	6.9	5.6	6.1
PPG-TF 318	92	6.4	6.3	7.3	6.9	7.0	4.3	5.8	6.3	4.5	6.7	6.9	4.3	6.4	6.7	6.7	5.4	6.1
PST-5THM	42	6.1	6.2	7.2	6.8	6.9	4.3	5.7	6.2	4.5	6.7	6.9	4.4	6.5	6.8	7.0	5.7	6.1
KIZZLE (K18-ROE)	31	6.3	6.3	7.3	6.9	6.9	4.3	5.7	6.2	4.5	6.7	6.9	4.3	6.4	6.7	6.8	5.5	6.1
RHL2	115	6.4	6.3	7.3	6.9	6.9	4.3	5.8	6.3	4.5	6.7	6.8	4.3	6.4	6.6	6.6	5.3	6.1
FIREHAWK SLT	94	6.3	6.3	7.3	6.9	6.9	4.3	5.7	6.2	4.5	6.7	6.8	4.3	6.4	6.7	6.8	5.4	6.1
DLFPS-321/3679	16	6.3	6.3	7.3	6.9	6.9	4.3	5.7	6.2	4.5	6.7	6.8	4.3	6.4	6.7	6.7	5.4	6.1
HEMI	95	6.3	6.2	7.3	6.9	6.9	4.3	5.7	6.2	4.4	6.7	6.8	4.3	6.4	6.7	6.8	5.5	6.1
DLFPS-321/3694	4	6.4	6.3	7.3	6.9	6.9	4.3	5.7	6.2	4.5	6.7	6.8	4.3	6.4	6.6	6.7	5.3	6.1
BAR-FA8230	64	6.0	6.1	7.2	6.8	6.8	4.2	5.7	6.2	4.4	6.7	6.8	4.4	6.5	6.8	7.1	5.8	6.1
ATF1768	12	6.1	6.1	7.2	6.8	6.8	4.2	5.7	6.2	4.4	6.7	6.8	4.3	6.5	6.7	7.0	5.7	6.1
MOONDANCE GLX	46	6.2	6.2	7.2	6.8	6.9	4.2	5.7	6.2	4.4	6.7	6.8	4.3	6.5	6.7	6.9	5.6	6.1
SETFM3	111	6.1	6.1	7.2	6.8	6.8	4.2	5.7	6.2	4.4	6.7	6.8	4.3	6.4	6.7	6.9	5.6	6.1
DLFPS-321/3703	36	6.3	6.3	7.3	6.9	6.9	4.3	5.7	6.2	4.4	6.7	6.8	4.2	6.4	6.6	6.6	5.3	6.1
NAI-3N2	102	6.3	6.3	7.3	6.9	6.9	4.3	5.7	6.2	4.4	6.7	6.8	4.2	6.4	6.6	6.6	5.3	6.0
ATF2116	7	6.1	6.1	7.2	6.8	6.8	4.2	5.6	6.2	4.4	6.6	6.8	4.3	6.4	6.7	6.9	5.6	6.0
PPG-TF 231	90	6.4	6.3	7.3	6.9	6.9	4.2	5.7	6.2	4.4	6.7	6.8	4.2	6.3	6.6	6.6	5.2	6.0
JT 517	23	6.1	6.1	7.1	6.8	6.8	4.2	5.6	6.1	4.4	6.6	6.8	4.3	6.4	6.7	6.9	5.6	6.0

TABLE 4.
(CONT'D)

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	KY1	DE1	NE1	VA1	OR1	IN1	CT1	KS1	MI1	UT1	NC1	ON1	TN1	PA2	OK1	MEAN
PRO GOLD	40	6.1	6.1	7.2	6.8	6.8	4.2	5.6	6.1	4.4	6.6	6.8	4.3	6.4	6.6	6.8	5.5	6.0
FAYETTE	22	6.2	6.2	7.2	6.8	6.8	4.2	5.6	6.1	4.4	6.6	6.8	4.2	6.4	6.6	6.7	5.4	6.0
SE53D2	106	6.1	6.1	7.1	6.7	6.8	4.2	5.6	6.1	4.4	6.6	6.8	4.3	6.4	6.7	6.9	5.6	6.0
RAD-TF105	113	6.1	6.1	7.1	6.8	6.8	4.2	5.6	6.1	4.4	6.6	6.7	4.2	6.4	6.6	6.7	5.4	6.0
PST-5DC24	51	6.0	6.1	7.1	6.7	6.8	4.1	5.6	6.1	4.3	6.6	6.7	4.2	6.4	6.6	6.8	5.5	6.0
TANGO	52	6.0	6.1	7.1	6.7	6.8	4.1	5.6	6.1	4.3	6.6	6.7	4.2	6.4	6.6	6.8	5.5	6.0
AST8218LM	124	6.0	6.0	7.1	6.7	6.7	4.1	5.6	6.1	4.3	6.6	6.7	4.2	6.4	6.6	6.9	5.6	6.0
PPG-TF 312	85	6.3	6.2	7.2	6.8	6.8	4.2	5.6	6.1	4.4	6.6	6.7	4.1	6.3	6.5	6.5	5.1	6.0
SETF104	109	6.1	6.1	7.1	6.7	6.8	4.2	5.6	6.1	4.3	6.6	6.7	4.2	6.3	6.6	6.7	5.3	6.0
LBF	17	6.0	6.0	7.1	6.7	6.7	4.1	5.6	6.1	4.3	6.6	6.7	4.2	6.3	6.6	6.8	5.5	6.0
MONUMENT (PST-5SQB)	47	6.0	6.1	7.1	6.7	6.7	4.1	5.6	6.1	4.3	6.6	6.7	4.2	6.3	6.6	6.7	5.4	5.9
PST-5DZM	48	6.0	6.0	7.1	6.7	6.7	4.1	5.6	6.1	4.3	6.5	6.7	4.2	6.3	6.6	6.8	5.4	5.9
NATURALLY GREEN	1	5.9	6.0	7.0	6.7	6.7	4.1	5.5	6.0	4.3	6.5	6.7	4.2	6.4	6.6	6.9	5.6	5.9
BRAVO 2	57	6.0	6.0	7.1	6.7	6.7	4.1	5.5	6.0	4.3	6.5	6.7	4.2	6.3	6.6	6.8	5.4	5.9
BULLSEYE	93	6.0	6.0	7.0	6.7	6.7	4.1	5.5	6.0	4.3	6.5	6.7	4.2	6.3	6.6	6.8	5.4	5.9
BIRMINGHAM	100	5.9	6.0	7.0	6.6	6.7	4.1	5.5	6.0	4.2	6.5	6.7	4.2	6.3	6.6	6.8	5.4	5.9
PST-5MINK	45	5.9	6.0	7.0	6.6	6.7	4.0	5.5	6.0	4.2	6.5	6.6	4.2	6.3	6.6	6.8	5.5	5.9
NAI-FQZ-17	58	5.9	6.0	7.0	6.6	6.7	4.0	5.5	6.0	4.2	6.5	6.6	4.1	6.3	6.6	6.8	5.5	5.9
SE5STAR	107	5.9	6.0	7.0	6.6	6.7	4.0	5.5	6.0	4.2	6.5	6.6	4.1	6.3	6.5	6.7	5.4	5.9
AST8118LM	123	5.9	5.9	7.0	6.6	6.7	4.0	5.5	6.0	4.2	6.5	6.6	4.1	6.3	6.6	6.8	5.5	5.9
GO-AOMK	101	6.0	6.0	7.0	6.6	6.7	4.0	5.5	6.0	4.2	6.5	6.6	4.1	6.2	6.5	6.7	5.3	5.9
BGR-TF3	11	5.9	5.9	7.0	6.6	6.6	4.0	5.4	6.0	4.2	6.5	6.6	4.1	6.3	6.5	6.7	5.4	5.9
COPIOUS TF	55	5.9	5.9	7.0	6.6	6.6	4.0	5.4	5.9	4.2	6.4	6.6	4.1	6.2	6.5	6.6	5.3	5.8
BANDIT	54	5.8	5.9	6.9	6.5	6.6	4.0	5.4	5.9	4.2	6.4	6.6	4.1	6.2	6.5	6.7	5.4	5.8
ESTRENA	122	6.1	6.0	7.0	6.6	6.7	4.0	5.5	6.0	4.2	6.4	6.6	4.0	6.1	6.4	6.4	5.1	5.8
BAR 9FE MAS	26	5.7	5.8	6.9	6.5	6.5	3.9	5.4	5.9	4.1	6.4	6.5	4.1	6.2	6.5	6.7	5.4	5.8
BAR FA 8228	27	5.6	5.7	6.8	6.4	6.5	3.9	5.3	5.8	4.1	6.3	6.5	4.0	6.2	6.5	6.8	5.5	5.7
SETFM2	110	5.7	5.8	6.8	6.5	6.5	3.9	5.3	5.8	4.1	6.3	6.5	4.0	6.1	6.4	6.6	5.3	5.7
ESCALADE	127	5.6	5.7	6.8	6.4	6.5	3.8	5.3	5.8	4.0	6.3	6.5	4.0	6.1	6.4	6.7	5.4	5.7
GRAND PRIX (FC15-01P)	131	5.7	5.7	6.8	6.4	6.5	3.8	5.3	5.8	4.0	6.3	6.4	4.0	6.1	6.4	6.6	5.3	5.7
OG-WALK	128	5.5	5.7	6.7	6.4	6.4	3.8	5.2	5.8	4.0	6.3	6.4	4.0	6.1	6.4	6.7	5.4	5.7
PALOMAR	126	5.5	5.7	6.7	6.4	6.4	3.8	5.2	5.8	4.0	6.3	6.4	4.0	6.1	6.4	6.7	5.4	5.7
RAD-TF131	114	5.8	5.8	6.8	6.4	6.5	3.8	5.3	5.8	4.0	6.3	6.4	3.9	6.0	6.3	6.4	5.1	5.7
A-TF31	125	5.8	5.8	6.8	6.4	6.4	3.8	5.3	5.8	4.0	6.2	6.4	3.9	6.0	6.3	6.4	5.1	5.6
RAD-TF115 (TURBO SS)	97	5.5	5.5	6.6	6.2	6.2	3.6	5.0	5.6	3.8	6.0	6.2	3.7	5.8	6.1	6.3	4.9	5.4
KENTUCKY-31	132	4.5	4.7	5.8	5.4	5.5	2.9	4.3	4.8	3.1	5.4	5.5	3.1	5.3	5.6	5.9	4.6	4.8
LSD VALUE		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)		8.4	8.5	7.3	7.7	7.7	12.3	9.2	8.5	11.8	7.9	7.7	12.3	8.2	7.9	7.8	9.7	8.7

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

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

TABLE 5.

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 #	IAI	NAME	ENTRY #	IAI
BAR-FA8230	64	7.2	3B2	112	7.0
PST-5GLBS	49	7.2	PST-5DC24	51	7.0
DLFPS-321/3705	59	7.2	PPG-TF 249	66	7.0
TITANIUM G-LS (PPG-TF 255)	84	7.2	BAR FA 8228	27	7.0
PPG-TF 320	119	7.2	AVENGER III (PPG-TF 308)	83	7.0
PST-5THM	42	7.2	TANGO	52	7.0
PST-5MCMO	39	7.2	LBF	17	7.0
PST-5E6	41	7.1	OG-WALK	128	7.0
PPG-TF 323	120	7.1	GO-RH20	99	7.0
ATF1768	12	7.1	DEGAS (LTP-TF-111)	30	7.0
ZION (BAR TF 134)	63	7.1	SPYDER 2LS (ZRC1)	89	7.0
BY-TF-169	33	7.1	AST8118LM	123	6.9
PST-5TRN	37	7.1	PALOMAR	126	6.9
NAI-ST5	105	7.1	DLFPS-321/3699	20	6.9
ATF2116	7	7.1	AH1	65	6.9
LIFEGUARD	44	7.1	RAPTOR LS (PPG-TF 336)	82	6.9
PPG-TF 305	77	7.1	PPG-TF 338	121	6.9
PST-5GQ	38	7.1	PADRE 2	56	6.9
TF445	129	7.1	JT 233	74	6.9
RH1	72	7.1	NAI-ROS4	103	6.9
AH2	69	7.1	PST-5MINK	45	6.9
TF456	130	7.1	NAI-FQZ-17	58	6.9
JT 517	23	7.1	RAPTOR III	116	6.9
DLFPS-321/3708	62	7.1	BAR 9FE MAS	26	6.9
BONFIRE (JS DTT)	24	7.1	PRO GOLD	40	6.9
SESCR1	108	7.1	TD2	18	6.9
NAI-TUE	104	7.1	BANDIT	54	6.9
PPG-TF 316	78	7.1	BIRMINGHAM	100	6.9
PST-5BYOB	43	7.0	HEMI	95	6.9
MOONDANCE GLX	46	7.0	COL-TF-148	28	6.9
PPG-TF 306	91	7.0	BRAVO 2	57	6.9
DLFPS-321/3701	34	7.0	RS1	9	6.9
NATURALLY GREEN	1	7.0	PPG-TF 267	68	6.9
AST8218LM	124	7.0	BULLSEYE	93	6.9
SETFM3	111	7.0	PPG-TF 262	67	6.9
DLFPS-321/3702	35	7.0	XANADU (JT 268)	75	6.9
PPG-TF 244	76	7.0	PST-5DZM	48	6.9
3N1	53	7.0	RHF	117	6.9
SE53D2	106	7.0	DLFPS-TF/3552	14	6.9
DLFPS-321/3695	5	7.0	STEALTH (PPG-TF 238)	81	6.9
DLFPS-TF/3550	13	7.0	PPG-TF 257	80	6.9
NT-3	8	7.0	KIZZLE (K18-ROE)	31	6.9
GLX ACED (PST-5DART)	50	7.0	RH3	73	6.9
GRANDE 3	21	7.0	BGR-TF3	11	6.9
DLFPS-TF/3553	15	7.0	MONUMENT (PST-5SQB)	47	6.9
			SE5STAR	107	6.9
			RAD-TF105	113	6.9
			TMT1	6	6.9
			DYNAMITE G-LS (PPG-TF 254)	87	6.9
			FIREHAWK SLT	94	6.9
			ESCALADE	127	6.9
			PPG-TF 337	88	6.9
			DRAGSTER	98	6.9
			K18-RS6	70	6.8
			DLFPS-321/3706	60	6.8
			FAYETTE	22	6.8
			DLFPS-321/3696	19	6.8
			DLFPS-321/3679	16	6.8
			SLSS	10	6.8
			BULLSEYE LTZ	96	6.8
			FIRECRACKER G-LS (PPG-TF 315)	86	6.8
			RC4	79	6.8
			OKEEFE (LTP-TF-122)	29	6.8
			DLFPS-321/3707	61	6.8
			GRAND PRIX (FC15-01P)	131	6.8
			GO-AOMK	101	6.8
			COPIOUS TF	55	6.8
			SETF104	109	6.8
			RDC	25	6.8
			K18-WB1	71	6.8
			PPG-TF 318	92	6.8
			SETFM2	110	6.8
			DLFPS-321/3693	3	6.7
			DLFPS-321/3694	4	6.7
			PARAMOUNT	2	6.7
			DLFPS-321/3703	36	6.7
			RHL2	115	6.7
			NAI-3N2	102	6.7
			K18-NSE	32	6.7
			PPG-TF 231	90	6.6
			PPG-TF 313	118	6.6
			RAD-TF131	114	6.6
			A-TF31	125	6.5
			PPG-TF 312	85	6.5
			ESTRENA	122	6.5
			RAD-TF115 (TURBO SS)	97	6.4
			KENTUCKY-31	132	6.2
			LSO VALUE		0.9
			C.V. (%)		7.7

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

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

TABLE 6.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FOUR LOCATIONS 1/
IN THE NORTHEAST REGION
2020 DATA

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

NAME	CT1	NJ1	NJ2	PA2	MEAN	NAME	CT1	NJ1	NJ2	PA2	MEAN
K18-RS6	6.6	7.9	6.6	7.0	7.0	RS1	6.3	6.5	6.1	6.8	6.4
TD2	6.8	7.6	6.3	6.9	6.9	DEGAS (LTP-TF-111)	6.3	6.5	6.1	6.6	6.4
PPG-TF 262	6.6	7.6	6.0	7.3	6.9	RHL2	6.3	6.3	6.2	6.8	6.4
SPYDER 2LS (ZRC1)	6.7	7.5	6.5	6.8	6.9	PPG-TF 257	6.2	6.3	6.2	6.8	6.4
RDC	6.6	7.4	5.9	7.3	6.8	PPG-TF 318	6.3	6.9	5.5	6.7	6.4
AH2	6.8	6.4	7.1	6.9	6.8	DLFPS-321/3699	6.2	6.3	6.2	6.8	6.4
XANADU (JT 268)	6.6	7.9	5.8	6.9	6.8	DLFPS-321/3701	6.4	7.0	5.4	6.7	6.4
AH1	6.3	6.5	7.0	7.4	6.8	NAI-ROS4	6.4	6.7	5.9	6.5	6.4
PPG-TF 313	6.5	7.9	6.1	6.6	6.8	DLFPS-321/3695	6.4	5.9	6.1	7.0	6.4
STEALTH (PPG-TF 238)	6.4	7.7	6.0	6.7	6.7	PPG-TF 305	6.4	6.0	6.0	7.0	6.3
K18-NSE	6.3	7.5	6.1	6.9	6.7	TF456	6.3	6.7	5.6	6.7	6.3
RC4	6.5	7.0	6.3	7.0	6.7	DLFPS-321/3706	6.3	6.1	6.0	6.8	6.3
DLFPS-321/3707	6.5	7.3	6.0	6.9	6.7	NAI-3N2	6.4	6.7	5.7	6.5	6.3
DLFPS-321/3693	6.6	7.1	6.1	6.8	6.7	AVENGER III (PPG-TF 308)	6.4	6.3	5.8	6.7	6.3
PPG-TF 267	6.7	7.6	5.2	7.1	6.6	PPG-TF 320	6.4	6.1	5.7	7.0	6.3
PPG-TF 338	6.5	7.4	5.5	7.1	6.6	DRAGSTER	6.3	6.0	5.9	7.0	6.3
PPG-TF 231	6.6	7.6	5.3	7.1	6.6	TF445	6.2	6.1	6.0	6.8	6.3
RH3	6.4	7.2	5.9	7.0	6.6	PPG-TF 316	6.3	6.2	6.0	6.7	6.3
GO-RH20	6.7	6.6	6.3	6.9	6.6	NT-3	6.5	5.7	6.1	6.8	6.3
PARAMOUNT	6.4	7.7	5.6	6.8	6.6	DLFPS-TF/3553	6.2	6.8	5.5	6.6	6.3
PPG-TF 244	6.5	6.9	6.3	6.9	6.6	DLFPS-321/3708	6.5	6.0	5.6	7.0	6.3
TITANIUM G-LS (PPG-TF 255)	6.5	6.5	6.4	6.8	6.6	ESTRENA	6.1	7.1	4.8	7.0	6.2
K18-WB1	6.4	7.1	5.7	7.0	6.6	RAPTOR III	6.3	6.2	5.4	7.1	6.2
DLFPS-321/3705	6.5	6.3	6.5	6.9	6.6	DLFPS-321/3703	6.1	7.3	4.6	6.9	6.2
TMT1	6.6	6.4	6.3	7.0	6.6	BY-TF-169	6.2	6.0	5.8	6.9	6.2
DYNAMITE G-LS (PPG-TF 254)	6.5	7.0	6.0	6.7	6.5	SESCR1	6.4	5.6	5.8	7.0	6.2
DLFPS-TF/3552	6.2	7.3	6.0	6.7	6.5	JT 233	6.1	6.1	5.5	6.9	6.1
FIRECRACKER G-LS (PPG-TF 315)	6.7	6.9	6.0	6.6	6.5	PPG-TF 337	6.4	6.7	5.9	5.7	6.1
PPG-TF 312	6.4	7.2	6.0	6.5	6.5	PADRE 2	6.1	6.4	5.0	7.0	6.1
OKEEFE (LTP-TF-122)	6.3	7.0	6.0	6.7	6.5	GLX ACED (PST-5DART)	6.1	5.8	5.5	6.9	6.1
BULLSEYE LTZ	6.5	7.5	5.3	6.8	6.5	DLFPS-321/3679	6.2	6.3	4.8	6.8	6.0
COL-TF-148	6.4	6.3	6.6	6.7	6.5	FIREHAWK SLT	6.4	6.0	4.8	6.9	6.0
DLFPS-TF/3550	6.4	6.9	5.8	6.9	6.5	DLFPS-321/3702	6.1	6.0	5.3	6.6	6.0
DLFPS-321/3696	6.1	7.5	5.3	7.0	6.5	KIZZLE (K18-ROE)	6.3	6.0	4.9	6.7	6.0
RH1	6.2	6.8	5.8	7.1	6.5	NAI-ST5	6.2	5.3	5.8	6.7	6.0
BONFIRE (JS DTT)	6.8	6.0	6.6	6.4	6.4	3B2	6.3	6.0	4.6	6.9	6.0
PPG-TF 306	6.3	6.7	6.0	6.8	6.4	RAD-TF105	6.4	4.8	5.3	7.3	6.0
5LSS	6.6	7.1	6.0	6.0	6.4	3N1	6.2	6.5	4.0	7.0	5.9
PPG-TF 323	6.3	6.7	6.0	6.7	6.4	SETF104	6.3	5.7	4.8	6.9	5.9
RHF	6.2	6.4	6.1	7.0	6.4	GRANDE 3	6.2	4.8	5.6	6.8	5.8
PPG-TF 249	6.2	6.0	6.2	7.2	6.4	NAI-TUE	6.4	4.8	5.5	6.6	5.8
RAPTOR LS (PPG-TF 336)	6.4	6.7	5.7	6.9	6.4	HEMI	6.3	5.2	5.1	6.7	5.8
ZION (BAR TF 134)	6.2	5.9	6.5	7.0	6.4	PRO GOLD	6.2	5.0	4.9	6.9	5.8
DLFPS-321/3694	6.2	6.6	6.0	6.8	6.4	PST-5TRN	6.1	5.2	5.0	6.7	5.8

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) GROWN AT FOUR LOCATIONS 1/
IN THE NORTHEAST REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	CT1	NJ1	NJ2	PA2	MEAN
PST-5MCMO	6.1	4.9	5.2	6.9	5.8
PST-5GLBS	6.1	4.7	4.9	7.1	5.7
MONUMENT (PST-5SQB)	6.3	4.9	4.6	6.9	5.7
LIFEGUARD	6.1	5.0	4.8	6.9	5.7
FAYETTE	6.2	6.2	4.0	6.3	5.7
PST-5GQ	6.0	4.9	4.8	6.9	5.6
COPIOUS TF	6.4	4.3	4.8	6.9	5.6
PST-5BYOB	6.0	5.0	4.6	6.6	5.6
MOONDANCE GLX	6.3	4.9	4.4	6.7	5.6
PST-5E6	6.0	4.3	5.1	6.8	5.6
SETFM3	6.3	4.5	4.5	6.9	5.5
RAD-TF131	6.0	5.0	4.0	7.1	5.5
A-TF31	6.0	4.9	4.2	6.9	5.5
PST-5DZM	6.2	4.6	4.4	6.7	5.5
TANGO	5.9	4.8	4.0	7.1	5.4
BIRMINGHAM	6.0	4.5	4.4	6.8	5.4
PST-5THM	6.3	3.9	4.7	6.9	5.4
SE53D2	6.2	4.0	4.8	6.6	5.4
BULLSEYE	6.3	4.3	4.4	6.7	5.4
GO-AOMK	5.9	5.1	4.0	6.6	5.4
PST-5DC24	6.1	4.7	3.8	7.1	5.4
LBF	5.8	4.2	4.4	7.0	5.4
AST8218LM	6.0	3.5	5.0	7.0	5.4
PST-5MINK	6.0	3.9	4.3	7.0	5.3
ATF1768	5.9	3.5	4.8	6.9	5.3
NAI-FQZ-17	6.2	4.6	3.3	6.9	5.2
BGR-TF3	6.0	4.1	4.1	6.7	5.2
SE5STAR	6.1	4.4	3.6	6.8	5.2
NATURALLY GREEN	6.2	3.1	4.5	7.0	5.2
BRAVO 2	5.9	4.7	3.8	6.6	5.2
AST8118LM	6.0	4.1	3.8	6.8	5.2
ATF2116	6.0	4.0	4.0	6.7	5.2
SETFM2	6.0	4.0	3.8	6.7	5.1
JT 517	6.0	4.3	3.5	6.4	5.1
BANDIT	6.0	3.7	3.6	6.8	5.0
BAR-FA8230	6.0	2.8	4.3	7.1	5.0
BAR 9FE MAS	6.0	2.4	4.4	7.0	4.9
GRAND PRIX (FC15-01P)	5.6	3.5	3.6	6.7	4.9
RAD-TF115 (TURBO SS)	6.1	3.4	4.1	5.6	4.8
ESCALADE	6.0	3.2	3.4	6.3	4.7
BAR FA 8228	6.0	2.4	3.0	7.0	4.6
PALOMAR	5.7	2.4	3.3	6.9	4.6
OG-WALK	6.0	2.3	3.3	6.4	4.5
KENTUCKY-31	5.0	1.0	1.1	6.5	3.4
LSD VALUE	0.5	1.3	0.8	0.6	0.4
C.V. (%)	4.5	14.5	9.3	5.7	8.9

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

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

TABLE 7.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT NINE LOCATIONS 1/
IN THE TRANSITION REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										
NAME	DE1	KS1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
DLFPS-321/3705	7.8	4.6	6.6	7.5	6.7	5.6	5.8	6.7	7.6	6.5
PPG-TF 320	7.6	5.2	6.2	7.3	6.3	4.9	6.0	6.5	8.3	6.5
PPG-TF 323	7.8	5.3	6.6	7.2	6.2	5.0	5.9	6.9	7.3	6.5
SPYDER 2LS (ZRC1)	7.6	5.1	6.6	7.4	7.0	4.7	5.5	6.8	7.2	6.4
BY-TF-169	7.8	5.4	6.6	7.4	6.5	3.7	6.0	7.0	7.3	6.4
TITANIUM G-LS (PPG-TF 255)	7.3	5.1	6.5	7.1	6.3	5.2	5.9	7.0	7.3	6.4
BONFIRE (JS DTT)	7.7	5.3	6.4	7.2	6.5	5.1	5.9	6.6	6.8	6.4
DYNAMITE G-LS (PPG-TF 254)	7.7	4.8	6.6	7.7	6.2	4.0	5.2	7.0	8.2	6.4
DLFPS-TF/3550	7.5	5.1	6.5	6.8	6.2	4.8	6.0	6.8	7.8	6.4
RH1	7.3	5.3	6.3	6.8	6.1	5.9	5.7	7.1	6.8	6.4
TD2	7.5	4.8	6.3	7.6	6.7	4.3	5.5	7.0	7.6	6.4
TF445	7.5	5.6	6.3	7.2	6.0	5.0	5.4	6.7	7.6	6.4
XANADU (JT 268)	7.5	5.6	6.4	7.0	6.9	5.3	5.5	6.4	6.7	6.4
K18-RS6	7.6	5.2	6.2	7.3	6.6	5.5	5.2	6.9	6.6	6.3
RS1	7.5	5.0	6.6	7.4	6.9	3.9	4.9	6.5	8.3	6.3
STEALTH (PPG-TF 238)	7.5	4.8	6.5	7.3	6.3	4.4	6.0	6.7	7.4	6.3
TF456	7.5	4.5	6.3	7.0	6.4	4.9	5.8	6.8	7.7	6.3
PPG-TF 306	7.4	4.7	6.4	7.1	6.2	4.8	5.4	6.9	8.1	6.3
PPG-TF 244	7.3	4.2	6.3	6.8	6.2	5.5	6.2	6.5	7.9	6.3
AH2	7.9	4.6	6.4	7.4	6.4	5.0	5.3	7.1	6.8	6.3
GO-RH20	7.5	4.6	6.4	7.3	6.9	5.3	5.5	7.0	6.5	6.3
DLFPS-TF/3553	7.4	5.1	6.8	7.3	5.9	4.6	5.7	6.6	7.3	6.3
RH3	7.3	5.0	6.5	7.2	6.6	4.8	5.6	6.9	6.7	6.3
PPG-TF 338	7.7	5.3	6.5	7.3	6.2	4.9	5.8	6.8	6.1	6.3
ZION (BAR TF 134)	7.3	5.1	6.5	7.6	6.0	4.3	5.6	6.4	7.8	6.3
PPG-TF 316	7.6	5.0	6.6	7.2	6.1	5.0	5.5	6.9	6.6	6.3
DLFPS-321/3701	7.6	4.7	6.5	6.6	6.2	4.0	5.6	6.8	8.6	6.3
LIFEGUARD	7.5	5.0	6.1	7.0	5.6	4.7	6.2	6.7	7.6	6.3
3N1	7.5	4.8	6.3	6.7	5.9	4.5	5.7	6.8	8.2	6.3
PPG-TF 262	7.6	5.1	6.6	7.3	6.4	4.7	5.2	6.8	6.7	6.3
PPG-TF 305	7.5	4.3	6.3	7.0	6.0	4.4	5.9	6.7	7.9	6.2
DEGAS (LTP-TF-111)	7.5	4.8	6.5	6.9	5.9	4.5	5.4	7.0	7.7	6.2
DLFPS-321/3702	7.5	4.6	6.5	6.8	6.5	3.6	5.8	6.7	8.0	6.2
PPG-TF 267	7.6	5.4	6.7	7.2	6.7	4.7	5.0	6.8	6.0	6.2
DLFPS-TF/3552	7.5	4.7	6.4	7.0	5.4	4.4	5.9	6.7	8.1	6.2
DLFPS-321/3693	7.5	4.2	6.7	7.4	6.5	4.0	5.4	6.8	7.4	6.2
SESCR1	7.1	4.7	6.5	6.9	6.0	4.9	5.8	6.9	7.1	6.2
PPG-TF 337	7.5	4.8	6.5	7.2	5.0	4.8	5.2	6.7	8.2	6.2
DLFPS-321/3699	7.5	4.6	6.6	7.0	6.3	4.3	5.8	6.9	6.7	6.2
AVENGER III (PPG-TF 308)	7.6	4.8	6.3	7.1	6.0	4.6	5.2	6.6	7.4	6.2
DLFPS-321/3696	7.3	5.1	6.3	7.0	6.2	4.7	5.7	7.3	6.2	6.2
RC4	7.5	4.8	6.7	7.4	5.7	4.1	5.6	6.7	7.2	6.2
RAPTOR LS (PPG-TF 336)	7.4	5.1	6.4	7.0	5.9	4.5	5.7	6.9	6.7	6.2
PST-5TRN	7.5	4.3	6.3	6.5	5.6	5.3	6.2	6.6	7.5	6.2

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT NINE LOCATIONS 1/
IN THE TRANSITION REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										
NAME	DE1	KS1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
PST-5MCMO	7.5	4.7	6.1	6.7	5.0	5.1	6.1	6.8	7.5	6.2
DLFPS-321/3695	7.4	4.1	6.5	7.0	6.1	4.6	6.1	6.8	6.9	6.2
BULLSEYE LTZ	7.5	4.2	6.7	7.1	6.1	4.0	5.8	6.9	7.1	6.2
NAI-ST5	7.6	4.4	6.5	6.9	6.4	5.5	5.5	6.4	6.4	6.2
OKEEFE (LTP-TF-122)	7.4	4.6	6.6	7.4	6.1	3.8	5.8	6.7	7.0	6.2
PST-5BYOB	7.2	4.6	6.3	6.2	5.8	5.5	6.1	6.6	7.3	6.2
RDC	7.3	4.9	6.5	7.0	6.4	3.9	5.5	6.8	6.9	6.1
TMT1	7.5	4.3	6.3	7.1	6.7	4.0	5.7	6.8	6.9	6.1
PADRE 2	7.5	3.7	6.5	7.0	5.9	4.7	5.6	6.7	7.7	6.1
DLFPS-321/3708	7.7	3.6	6.5	7.0	5.5	4.2	6.1	7.1	7.5	6.1
COL-TF-148	7.5	4.3	6.6	7.3	6.3	4.5	5.6	6.8	6.4	6.1
PARAMOUNT	7.3	4.1	6.4	7.1	6.0	4.3	6.0	6.7	7.4	6.1
PPG-TF 249	7.3	4.4	6.5	7.0	6.2	4.0	5.8	6.6	7.2	6.1
PST-5E6	7.2	5.4	6.2	6.6	4.8	5.4	5.4	6.6	7.6	6.1
FIRECRACKER G-LS (PPG-TF 315)	7.5	4.1	6.4	7.3	6.2	4.2	6.0	6.8	6.7	6.1
PPG-TF 318	7.1	4.7	6.1	7.4	5.4	4.5	5.7	6.9	7.2	6.1
JT 233	7.3	4.7	6.4	6.4	6.9	4.9	5.2	6.9	6.3	6.1
NAI-ROS4	7.5	4.1	6.4	6.1	6.1	4.2	5.6	6.9	8.1	6.1
RHF	7.3	5.1	6.2	6.8	6.7	4.8	5.0	6.6	6.5	6.1
GLX ACED (PST-5DART)	7.2	4.3	6.5	6.7	5.5	5.4	5.8	6.6	6.9	6.1
KIZZLE (K18-ROE)	7.0	4.9	6.4	6.8	6.0	4.7	6.2	6.6	6.2	6.1
NT-3	7.7	4.6	6.3	7.4	5.6	4.3	4.6	6.8	7.7	6.1
PST-5GLBS	7.0	5.1	6.2	6.4	5.9	5.3	5.9	6.5	6.6	6.1
PPG-TF 257	7.4	4.7	6.6	7.2	5.6	4.2	5.8	6.9	6.3	6.1
5LSS	7.5	4.5	6.3	6.9	5.4	3.8	5.1	6.8	8.6	6.1
RAPTOR III	7.5	4.4	6.4	7.1	6.5	4.0	5.5	6.9	6.5	6.1
DLFPS-321/3707	7.6	4.2	6.4	7.2	6.3	4.4	4.8	6.8	6.9	6.1
3B2	7.4	4.6	6.4	7.0	6.0	4.0	6.3	6.5	6.4	6.1
NAI-3N2	7.4	4.1	6.6	6.8	6.7	3.9	5.8	6.9	6.5	6.1
K18-NSE	7.7	4.4	6.5	7.6	6.8	3.7	5.1	6.8	5.9	6.1
RHL2	7.2	4.9	6.5	7.4	6.4	3.8	4.2	6.8	7.2	6.1
NAI-TUE	7.4	4.7	6.7	6.2	5.8	5.4	5.4	6.5	6.4	6.0
AH1	7.4	4.0	6.5	7.1	6.7	4.3	5.7	6.9	5.8	6.0
K18-WB1	7.1	5.1	6.5	7.0	6.1	4.2	5.2	6.7	6.2	6.0
PPG-TF 313	7.6	4.5	6.5	7.7	6.6	3.5	4.8	6.9	5.9	6.0
DRAGSTER	7.6	4.2	6.4	7.1	5.8	4.5	5.3	6.8	6.2	6.0
MOONDANCE GLX	7.2	3.9	6.3	5.7	5.5	4.5	6.3	6.3	8.1	6.0
GRANDE 3	7.3	4.4	6.2	7.1	5.9	4.0	5.4	6.8	6.6	6.0
DLFPS-321/3679	7.3	5.2	6.0	7.0	5.2	3.9	5.7	6.8	6.6	6.0
DLFPS-321/3706	6.9	4.4	6.5	7.2	5.7	3.6	5.5	6.9	7.1	6.0
PST-5THM	7.3	4.0	6.1	6.0	5.1	5.3	5.9	6.7	7.2	6.0
PST-5GQ	7.4	3.8	6.2	6.6	5.4	4.5	5.7	6.5	7.6	5.9
HEMI	7.5	4.3	6.4	6.5	6.3	4.0	5.0	6.7	6.8	5.9
DLFPS-321/3703	7.4	4.3	6.3	6.5	5.7	4.0	4.9	6.9	7.5	5.9
PPG-TF 312	7.7	4.1	6.5	7.2	5.8	3.2	4.5	6.8	7.6	5.9

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT NINE LOCATIONS 1/
IN THE TRANSITION REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										
NAME	DE1	KS1	KY1	MD1	MO1	NC1	OK1	TN1	VA1	MEAN
DLFPS-321/3694	7.4	3.6	6.6	6.8	6.2	3.7	4.8	6.7	7.5	5.9
JT 517	7.1	4.5	6.2	6.1	5.2	4.1	5.4	7.0	7.6	5.9
FAYETTE	7.1	4.1	6.3	6.1	6.1	4.1	6.0	6.7	6.7	5.9
ATF2116	7.0	4.3	5.8	6.1	5.1	4.8	6.0	6.7	7.2	5.9
ATF1768	7.7	3.9	6.0	6.1	5.2	4.7	5.6	6.7	7.1	5.9
FIREHAWK SLT	7.5	4.6	6.6	6.6	6.0	3.6	4.8	6.8	6.3	5.9
PRO GOLD	7.4	4.3	6.1	6.1	5.2	4.3	5.8	6.8	6.8	5.9
PPG-TF 231	7.1	3.3	6.6	7.0	5.6	3.9	5.2	7.0	7.1	5.9
BAR-FA8230	7.0	4.4	6.0	5.6	5.8	3.8	5.8	6.7	7.7	5.9
SETFM3	7.2	4.4	6.2	6.0	5.5	4.3	5.4	6.6	7.1	5.9
BRAVO 2	7.0	4.1	6.2	6.2	5.3	4.5	5.6	6.5	7.0	5.8
SE5STAR	6.9	4.5	6.0	6.6	5.4	4.5	5.9	6.3	6.0	5.8
SE53D2	7.1	4.1	6.2	5.9	5.3	4.7	6.2	6.5	6.1	5.8
LBF	7.0	4.6	6.4	5.7	5.5	4.0	5.5	6.6	6.7	5.8
SETF104	7.1	4.6	6.0	6.3	5.4	3.8	5.2	6.6	7.1	5.8
PST-5DC24	7.0	4.5	6.2	5.5	5.3	4.1	5.5	6.9	6.9	5.8
RAD-TF105	7.2	4.6	6.1	6.4	5.5	4.1	4.9	6.8	6.2	5.7
NATURALLY GREEN	6.9	4.6	5.9	6.0	5.2	4.0	5.4	6.4	7.2	5.7
BULLSEYE	7.3	3.8	6.1	5.9	5.5	4.4	5.5	6.6	6.2	5.7
AST8218LM	7.3	3.9	6.2	5.5	5.4	3.8	5.6	6.8	6.7	5.7
MONUMENT (PST-5SQB)	6.7	3.8	6.0	6.0	5.0	5.1	5.8	6.3	6.7	5.7
TANGO	7.3	3.8	6.1	5.8	5.4	4.8	5.1	6.6	6.2	5.7
PST-5DZM	6.7	4.0	6.3	6.1	5.1	4.2	5.7	6.6	6.6	5.7
AST8118LM	6.7	4.4	6.2	5.5	4.8	4.0	5.6	6.9	6.9	5.7
ESTRENA	7.0	3.9	6.2	6.2	6.3	3.6	5.1	6.7	5.5	5.6
BIRMINGHAM	7.0	4.5	6.0	5.0	5.6	4.4	5.7	6.8	5.6	5.6
BGR-TF3	6.9	4.8	5.8	5.4	5.2	3.3	5.5	6.6	6.7	5.6
PST-5MINK	6.8	4.4	6.3	5.6	5.2	3.4	5.2	6.7	6.7	5.6
GO-AOMK	6.9	4.2	6.0	5.9	5.0	3.7	5.5	6.8	6.3	5.6
NAI-FQZ-17	7.2	4.6	6.1	5.3	5.3	3.8	5.2	6.6	6.1	5.6
COPIOUS TF	7.3	4.0	6.0	5.5	5.5	3.4	5.1	6.6	6.6	5.6
BAR 9FE MAS	6.8	4.1	5.8	5.9	5.3	4.1	5.1	6.4	6.5	5.5
SETFM2	7.0	3.8	5.7	5.2	5.0	3.7	5.4	6.9	6.6	5.5
BANDIT	7.3	3.7	5.7	5.3	5.9	3.5	5.8	6.3	5.7	5.5
BAR FA 8228	6.8	4.3	5.8	5.1	5.0	3.6	5.2	6.1	6.3	5.4
GRAND PRIX (FC15-01P)	6.5	3.7	5.7	5.0	4.9	4.3	5.5	6.4	6.2	5.4
ESCALADE	6.6	3.8	5.8	5.0	4.9	3.5	5.7	6.2	6.4	5.3
OG-WALK	6.9	4.1	5.6	4.2	4.9	3.6	5.2	6.6	6.4	5.3
PALOMAR	6.6	4.5	5.8	4.0	4.9	3.6	5.4	6.2	6.4	5.3
A-TF31	6.2	4.3	5.8	5.9	4.9	3.5	4.3	6.6	5.9	5.3
RAD-TF131	7.2	3.7	6.2	5.5	4.7	2.5	3.6	6.6	6.8	5.2
RAD-TF115 (TURBO SS)	7.0	3.3	6.1	5.6	5.4	2.4	2.8	6.5	5.9	5.0
KENTUCKY-31	5.7	3.5	4.0	2.9	4.0	3.4	4.1	6.3	4.9	4.3
LSD VALUE	0.5	1.0	0.4	0.8	0.9	1.1	0.9	0.5	2.0	0.3
C.V. (%)	4.0	14.0	3.8	7.2	9.9	15.4	10.6	4.6	18.2	10.5

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 8.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWO LOCATIONS 1/
IN THE SOUTHEAST REGION
2020 DATA

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

NAME	GA1	MS1	MEAN	NAME	GA1	MS1	MEAN	NAME	GA1	MS1	MEAN
AH1	7.0	5.3	6.1	RH1	6.7	4.3	5.5	PST-5BYOB	6.4	3.6	5.0
K18-RS6	6.9	5.2	6.1	RS1	6.8	4.2	5.5	ATF1768	6.2	3.7	5.0
AH2	6.9	5.1	6.0	DRAGSTER	6.4	4.6	5.5	K18-NSE	5.8	4.2	5.0
ZION (BAR TF 134)	6.8	5.1	6.0	FIRECRACKER G-LS (PPG-TF 315)	6.6	4.3	5.5	MONUMENT (PST-5SQB)	6.3	3.7	5.0
PPG-TF 244	7.0	5.0	6.0	DLFPS-321/3707	6.2	4.7	5.4	NAI-TUE	6.2	3.7	5.0
TD2	6.8	5.2	6.0	BULLSEYE LTZ	6.6	4.3	5.4	PPG-TF 318	6.6	3.3	5.0
DLFPS-321/3702	6.8	5.0	5.9	DLFPS-321/3695	6.9	3.9	5.4	PST-5MINK	5.8	3.9	4.9
BONFIRE (JS DTT)	7.1	4.7	5.9	DLFPS-321/3699	6.8	4.0	5.4	DLFPS-321/3694	6.4	3.3	4.8
DLFPS-321/3701	7.0	4.7	5.9	GRANDE 3	6.3	4.5	5.4	3N1	6.3	3.4	4.8
TF445	6.7	5.0	5.9	K18-WB1	6.4	4.4	5.4	PRO GOLD	6.3	3.4	4.8
NAI-ROS4	6.8	4.9	5.8	RAPTOR LS (PPG-TF 336)	6.7	4.1	5.4	TANGO	6.1	3.5	4.8
NT-3	6.6	5.1	5.8	RDC	6.6	4.1	5.4	RAD-TF131	5.6	3.9	4.8
PPG-TF 305	6.9	4.8	5.8	DLFPS-321/3679	6.3	4.4	5.4	DLFPS-321/3703	5.9	3.6	4.8
PPG-TF 323	6.9	4.8	5.8	PST-5TRN	6.6	4.1	5.4	LIFEGUARD	6.3	3.3	4.8
DLFPS-TF/3552	6.7	4.9	5.8	PPG-TF 249	6.7	4.0	5.3	RAD-TF105	6.2	3.3	4.7
NAI-ST5	6.9	4.8	5.8	DLFPS-321/3706	6.3	4.4	5.3	SE5STAR	5.8	3.6	4.7
AVENGER III (PPG-TF 308)	6.7	4.9	5.8	GLX ACED (PST-5DART)	6.4	4.3	5.3	PARAMOUNT	5.8	3.5	4.7
PPG-TF 337	6.7	4.8	5.8	SETF104	6.6	4.1	5.3	SETFM2	5.8	3.5	4.7
PPG-TF 316	6.9	4.6	5.8	GO-RH20	6.3	4.3	5.3	NATURALLY GREEN	5.9	3.3	4.6
DLFPS-321/3708	6.5	5.0	5.8	OKEEFE (LTP-TF-122)	6.6	4.0	5.3	PPG-TF 231	6.2	3.1	4.6
PST-5GLBS	6.6	4.9	5.8	PPG-TF 267	6.4	4.2	5.3	BANDIT	5.8	3.4	4.6
XANADU (JT 268)	6.7	4.8	5.7	DLFPS-321/3693	6.4	4.2	5.3	GRAND PRIX (FC15-01P)	5.7	3.5	4.6
PST-5MCMO	6.8	4.7	5.7	PST-5DC24	6.5	4.1	5.3	PPG-TF 312	6.0	3.3	4.6
DLFPS-TF/3550	6.9	4.6	5.7	RH3	6.7	3.8	5.3	BULLSEYE	5.7	3.4	4.6
SPYDER 2LS (ZRC1)	6.8	4.6	5.7	PST-5DZM	6.6	3.9	5.3	FAYETTE	5.4	3.7	4.5
STEALTH (PPG-TF 238)	7.1	4.3	5.7	5LSS	6.3	4.0	5.2	RAD-TF115 (TURBO SS)	5.2	3.8	4.5
DEGAS (LTP-TF-111)	6.6	4.8	5.7	DLFPS-321/3696	6.1	4.2	5.2	AST8218LM	5.7	3.3	4.5
PPG-TF 257	6.8	4.5	5.7	HEMI	6.3	4.1	5.2	BGR-TF3	5.8	3.3	4.5
COL-TF-148	6.9	4.4	5.7	FIREHAWK SLT	6.1	4.2	5.2	NAI-3N2	5.6	3.4	4.5
TITANIUM G-LS (PPG-TF 255)	6.8	4.6	5.7	GO-AOMK	6.5	3.8	5.1	LBF	5.5	3.4	4.5
TF456	6.5	4.8	5.7	SESCR1	6.6	3.6	5.1	BAR 9FE MAS	6.2	2.7	4.4
DLFPS-321/3705	6.8	4.5	5.6	ATF2116	6.0	4.3	5.1	OG-WALK	5.4	3.3	4.4
RC4	6.8	4.5	5.6	TMT1	6.7	3.5	5.1	BRAVO 2	5.7	3.0	4.4
PST-5GQ	6.6	4.7	5.6	PADRE 2	5.9	4.3	5.1	COPIOUS TF	5.6	3.1	4.4
PPG-TF 262	6.4	4.8	5.6	JT 233	6.5	3.7	5.1	PALOMAR	5.3	3.4	4.3
DLFPS-TF/3553	6.6	4.5	5.6	PST-5THM	6.2	3.9	5.1	AST8118LM	5.8	2.9	4.3
PPG-TF 320	6.8	4.4	5.6	BAR FA 8228	5.8	4.4	5.1	BIRMINGHAM	5.7	2.9	4.3
PST-5E6	6.3	4.8	5.6	SETFM3	6.4	3.8	5.1	ESCALADE	5.2	3.4	4.3
BY-TF-169	6.7	4.4	5.5	KIZZLE (K18-ROE)	6.3	3.8	5.0	A-TF31	5.5	2.9	4.2
PPG-TF 306	6.6	4.5	5.5	SE53D2	6.3	3.7	5.0	NAI-FQZ-17	5.6	2.9	4.2
PPG-TF 313	6.4	4.7	5.5	DYNAMITE G-LS (PPG-TF 254)	6.4	3.6	5.0	KENTUCKY-31	4.3	3.2	3.8
RAPTOR III	6.6	4.5	5.5	MOONDANCE GLX	6.2	3.8	5.0	ESTRENA	4.5	2.6	3.5
RHF	6.6	4.5	5.5	BAR-FA8230	5.6	4.4	5.0				
RHL2	6.4	4.6	5.5	3B2	6.6	3.4	5.0	LSD VALUE	0.6	0.9	0.5
PPG-TF 338	6.4	4.6	5.5	JT 517	6.2	3.8	5.0	C.V. (%)	5.9	13.6	9.1

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

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

TABLE 9.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FIVE LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	IA1	IN1	MI1	NE1	ON1	MEAN
DLFPS-321/3705	6.8	6.5	7.3	7.5	6.7	7.0
TITANIUM G-LS (PPG-TF 255)	7.2	6.3	7.1	7.5	6.4	6.9
TF456	6.8	6.2	7.0	7.4	6.9	6.8
PPG-TF 306	7.0	5.9	7.3	7.1	6.8	6.8
ZION (BAR TF 134)	7.0	6.2	7.0	7.0	7.0	6.8
PPG-TF 316	7.2	5.9	6.9	7.3	6.9	6.8
SPYDER 2LS (ZRC1)	6.7	6.0	7.3	6.9	7.2	6.8
NT-3	7.1	6.2	6.8	7.3	6.5	6.8
5LSS	6.8	6.7	6.6	7.0	6.8	6.8
DLFPS-321/3694	7.0	5.7	7.1	7.3	6.7	6.8
TF445	6.9	6.3	6.9	7.3	6.4	6.8
STEALTH (PPG-TF 238)	6.8	5.8	7.3	7.1	6.8	6.8
XANADU (JT 268)	7.0	6.0	6.9	7.3	6.5	6.7
PPG-TF 267	6.8	6.3	7.2	7.1	6.3	6.7
3B2	6.9	5.9	7.1	7.1	6.7	6.7
DLFPS-321/3701	7.1	6.0	6.9	7.0	6.7	6.7
PPG-TF 323	7.0	5.5	7.0	6.9	7.3	6.7
AH2	6.9	6.3	6.8	7.5	6.3	6.7
DLFPS-321/3695	6.8	6.1	6.9	7.2	6.7	6.7
K18-NSE	6.7	6.4	6.6	7.4	6.6	6.7
DLFPS-321/3696	7.0	6.0	6.7	7.1	6.9	6.7
DLFPS-321/3707	7.1	5.9	6.7	7.3	6.6	6.7
RS1	7.0	5.7	7.3	7.1	6.6	6.7
DLFPS-321/3699	7.1	5.9	7.1	7.1	6.2	6.7
PPG-TF 320	6.9	6.3	6.7	7.0	6.7	6.7
PPG-TF 249	7.0	6.0	6.9	6.9	6.6	6.7
FIREHAWK SLT	6.9	6.0	7.0	7.1	6.5	6.7
NAI-ST5	6.9	5.9	7.0	6.9	6.7	6.7
JT 233	7.0	5.8	6.7	7.1	6.7	6.7
FAYETTE	6.9	6.0	7.0	6.6	6.9	6.7
K18-WB1	6.8	6.0	7.0	7.0	6.7	6.7
AH1	6.7	5.8	7.0	7.1	6.8	6.7
PPG-TF 244	7.0	6.0	7.2	7.1	6.2	6.7
TD2	7.0	5.8	6.9	7.1	6.6	6.7
DLFPS-TF/3553	6.8	6.0	6.5	7.2	6.9	6.7
BY-TF-169	6.9	5.9	7.1	7.1	6.4	6.7
PPG-TF 262	7.0	5.7	7.1	6.8	6.7	6.7
PPG-TF 338	7.0	6.0	6.6	7.5	6.3	6.7
NAI-ROS4	6.7	5.9	7.1	7.2	6.4	6.7
RAPTOR LS (PPG-TF 336)	6.8	6.3	6.3	7.1	6.8	6.7
ESTRENA	6.8	6.1	6.6	7.1	6.8	6.7
PPG-TF 257	6.9	5.9	6.9	6.9	6.8	6.7
PPG-TF 313	6.8	5.8	6.5	7.0	7.2	6.7
PPG-TF 305	6.9	5.5	6.7	7.5	6.6	6.7
K18-RS6	6.9	5.8	6.9	6.9	6.7	6.6

TABLE 9.
(CONT'D)MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FIVE LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	IA1	IN1	MI1	NE1	ON1	MEAN
PST-5GQ	7.0	6.0	6.7	6.8	6.7	6.6
OKEEFE (LTP-TF-122)	7.0	5.6	6.8	7.1	6.7	6.6
PPG-TF 231	6.8	5.8	6.7	6.8	7.1	6.6
COL-TF-148	7.0	5.7	6.7	6.9	6.9	6.6
TMT1	7.1	5.8	6.9	7.1	6.3	6.6
RH3	6.8	6.0	6.7	6.8	6.8	6.6
BULLSEYE LTZ	6.9	6.2	6.9	6.7	6.4	6.6
GRANDE 3	6.9	5.8	6.9	6.7	6.8	6.6
PARAMOUNT	6.9	5.9	6.9	7.0	6.5	6.6
RH1	7.0	6.1	7.2	6.7	6.2	6.6
3N1	7.0	5.9	7.1	6.7	6.4	6.6
DYNAMITE G-LS (PPG-TF 254)	6.7	6.4	6.5	7.3	6.2	6.6
PPG-TF 337	6.8	5.6	7.1	6.9	6.6	6.6
NAI-FQZ-17	7.0	5.5	6.8	6.9	6.7	6.6
RAPTOR III	6.9	5.4	6.9	6.9	6.9	6.6
AST8218LM	7.1	5.8	6.5	7.0	6.6	6.6
RHF	6.8	5.7	6.9	6.9	6.8	6.6
SESCR1	6.8	5.5	7.1	7.1	6.5	6.6
TANGO	6.9	6.0	6.7	6.5	6.9	6.6
DLFPS-321/3708	7.3	5.5	6.4	7.3	6.5	6.6
PADRE 2	6.9	6.0	7.0	6.8	6.3	6.6
GLX ACED (PST-5DART)	6.9	6.0	6.4	7.1	6.4	6.6
DEGAS (LTP-TF-111)	6.8	5.7	6.8	7.1	6.5	6.6
PST-5GLBS	7.0	5.9	6.5	6.8	6.7	6.6
JT 517	7.2	6.0	6.6	6.7	6.5	6.6
DLFPS-321/3706	7.0	5.8	6.6	7.1	6.4	6.6
GO-RH20	6.8	5.5	7.0	7.1	6.4	6.6
RC4	6.9	5.7	6.9	7.1	6.3	6.6
NAI-TUE	6.8	5.8	6.8	6.6	6.8	6.6
HEMI	6.8	5.5	7.1	6.8	6.7	6.6
PPG-TF 312	6.8	5.6	6.7	7.2	6.6	6.6
BONFIRE (JS DTT)	7.0	6.1	6.8	7.3	5.6	6.6
DLFPS-321/3703	7.0	5.4	7.1	6.8	6.4	6.6
SETFM3	7.3	5.6	6.5	6.7	6.6	6.6
DLFPS-321/3679	6.8	5.8	6.7	6.8	6.5	6.5
LIFEGUARD	6.7	5.9	7.0	6.7	6.4	6.5
PPG-TF 318	6.9	5.8	6.7	6.9	6.4	6.5
FIRECRACKER G-LS (PPG-TF 315)	6.8	6.0	6.9	6.9	6.0	6.5
PST-5TRN	6.8	5.8	6.7	6.6	6.8	6.5
DLFPS-321/3702	7.0	5.1	6.9	7.2	6.5	6.5
ATF1768	7.0	5.9	6.7	6.7	6.3	6.5
AST8118LM	7.1	5.6	6.6	6.8	6.4	6.5
BRAVO 2	7.0	5.7	6.6	6.7	6.5	6.5
NAI-3N2	6.8	5.4	6.5	6.9	6.9	6.5
DLFPS-TF/3552	7.2	5.8	6.5	7.0	5.9	6.5

TABLE 9.
(CONT'D)MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT FIVE LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	IA1	IN1	MI1	NE1	ON1	MEAN
AVENGER III (PPG-TF 308)	6.7	6.0	6.6	7.0	6.1	6.5
DRAGSTER	6.9	6.1	6.5	7.2	5.8	6.5
DLFPS-TF/3550	6.8	5.7	6.7	6.9	6.3	6.5
RAD-TF105	7.2	5.6	6.5	6.7	6.4	6.5
BANDIT	7.1	5.1	6.7	6.9	6.6	6.5
RHL2	6.9	5.5	6.9	6.6	6.4	6.5
BGR-TF3	7.1	5.8	7.1	6.5	5.8	6.5
DLFPS-321/3693	6.8	5.4	6.6	7.1	6.3	6.5
PST-5MCMO	6.9	6.0	6.1	6.5	6.8	6.5
SE53D2	6.8	5.7	6.6	6.8	6.4	6.4
RDC	6.8	5.8	6.6	7.2	5.9	6.4
BIRMINGHAM	7.1	5.5	6.9	6.7	6.0	6.4
SETF104	7.0	5.3	6.4	6.8	6.7	6.4
KIZZLE (K18-ROE)	7.0	5.8	6.7	6.7	6.1	6.4
PST-5E6	6.6	6.0	6.6	6.8	6.1	6.4
RAD-TF131	7.3	4.9	6.4	7.1	6.5	6.4
PST-5DZM	6.8	5.6	6.5	6.7	6.6	6.4
BAR-FA8230	6.9	5.4	6.5	6.4	6.9	6.4
ATF2116	7.1	5.8	6.7	6.9	5.7	6.4
GO-AOMK	7.2	5.3	6.9	6.9	5.8	6.4
PST-5MINK	7.0	5.5	6.7	6.8	6.1	6.4
BULLSEYE	6.9	5.5	6.7	6.7	6.2	6.4
PRO GOLD	6.8	5.8	6.7	6.7	6.2	6.4
SE5STAR	6.9	5.5	6.6	6.8	6.3	6.4
PST-5THM	6.6	5.6	6.5	6.6	6.7	6.4
MONUMENT (PST-5SQB)	6.8	5.8	6.6	6.7	6.2	6.4
PST-5BYOB	6.7	5.9	6.8	6.7	5.9	6.4
ESCALADE	6.8	5.3	6.5	6.5	6.8	6.4
MOONDANCE GLX	6.7	5.7	6.6	6.5	6.4	6.4
RAD-TF115 (TURBO SS)	7.2	4.7	6.5	6.9	6.6	6.4
LBF	7.1	5.3	6.4	6.9	6.1	6.4
OG-WALK	6.9	5.4	6.5	6.5	6.3	6.3
COPIOUS TF	7.1	5.5	6.3	6.6	6.2	6.3
A-TF31	7.1	5.3	6.6	6.5	6.1	6.3
NATURALLY GREEN	7.0	5.3	6.3	6.7	6.0	6.3
GRAND PRIX (FC15-01P)	6.8	5.6	6.3	6.5	6.1	6.2
PALOMAR	7.0	5.4	6.5	6.3	5.9	6.2
PST-5DC24	7.0	5.6	6.7	6.8	5.1	6.2
BAR 9FE MAS	6.9	4.8	6.5	6.6	6.1	6.2
BAR FA 8228	7.0	5.1	6.1	6.5	6.0	6.2
SETFM2	7.1	5.4	6.0	6.7	5.4	6.1
KENTUCKY-31	6.3	3.9	4.1	4.8	6.1	5.0
LSD VALUE	0.3	0.6	0.7	0.4	0.9	0.3
C.V. (%)	2.7	6.3	6.7	3.5	8.3	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 10.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
5LSS	7.7	7.0	7.0	7.7	8.0	7.3	7.4
PPG-TF 323	7.0	7.7	7.3	7.3	8.0	7.0	7.4
DLFPS-321/3706	7.3	7.3	7.0	7.3	8.0	6.7	7.3
TITANIUM G-LS (PPG-TF 255)	7.0	7.3	7.7	7.3	7.7	6.7	7.3
DLFPS-TF/3550	7.0	7.7	7.7	7.0	7.3	6.7	7.2
ZION (BAR TF 134)	7.3	7.0	7.0	7.0	8.0	7.0	7.2
DLFPS-321/3705	6.7	7.3	7.3	7.0	8.0	7.0	7.2
AH2	6.7	7.3	7.0	7.0	7.7	7.3	7.2
BONFIRE (JS DTT)	7.0	7.3	7.3	7.0	7.7	6.7	7.2
BY-TF-169	8.0	7.0	7.0	7.3	7.0	6.7	7.2
COL-TF-148	7.0	7.0	7.3	7.0	7.7	7.0	7.2
DLFPS-TF/3552	7.3	7.3	7.0	7.0	7.7	6.7	7.2
DLFPS-TF/3553	7.3	7.0	7.7	7.3	7.0	6.7	7.2
DYNAMITE G-LS (PPG-TF 254)	7.0	7.3	7.0	7.3	7.7	6.7	7.2
GLX ACED (PST-5DART)	7.3	7.3	7.0	7.0	7.7	6.7	7.2
FIRECRACKER G-LS (PPG-TF 315)	7.0	7.7	7.0	7.0	7.0	7.0	7.1
K18-WB1	7.0	7.0	7.0	7.0	7.7	7.0	7.1
PPG-TF 312	7.0	7.0	6.7	7.0	8.0	7.0	7.1
RH3	6.7	7.7	7.0	7.0	7.7	6.7	7.1
AH1	7.0	7.0	7.0	7.0	7.7	7.0	7.1
AVENGER III (PPG-TF 308)	7.3	7.3	7.0	7.3	7.3	6.3	7.1
DLFPS-321/3701	7.3	7.0	7.0	7.3	7.3	6.7	7.1
DEGAS (LTP-TF-111)	7.0	7.3	7.0	7.3	7.0	6.7	7.1
DLFPS-321/3693	7.0	7.0	7.0	7.3	7.0	7.0	7.1
DLFPS-321/3694	7.0	7.0	7.3	6.7	7.7	6.7	7.1
FIREHAWK SLT	7.0	7.0	7.3	7.0	7.3	6.7	7.1
GO-RH20	6.7	7.0	7.0	7.0	7.7	7.0	7.1
K18-RS6	6.3	7.0	8.0	6.7	7.3	7.0	7.1
NAI-ST5	7.0	7.0	7.3	7.0	7.3	6.7	7.1
OKEEFE (LTP-TF-122)	7.0	7.3	7.3	7.0	7.0	6.7	7.1
PPG-TF 305	7.0	7.0	7.0	7.0	7.3	7.0	7.1
RDC	6.7	7.3	6.3	7.3	7.7	7.0	7.1
RHF	6.7	7.0	7.0	7.3	7.3	7.0	7.1
TD2	6.7	7.3	7.3	7.0	7.0	7.0	7.1
NAI-TUE	7.3	7.3	7.7	6.7	7.0	6.3	7.1
PPG-TF 249	7.3	7.3	7.3	7.0	7.0	6.3	7.1
3N1	7.3	7.0	7.0	7.0	7.0	6.7	7.0
DLFPS-321/3702	6.7	7.3	7.0	7.0	7.3	6.7	7.0
DLFPS-321/3703	6.7	7.3	7.3	7.0	7.0	6.7	7.0
ESTRENA	7.0	7.0	7.7	7.0	7.0	6.3	7.0
HEMI	6.7	7.0	7.0	7.0	7.3	7.0	7.0
NT-3	7.0	7.0	7.0	7.0	7.3	6.7	7.0
PPG-TF 267	7.0	7.0	7.3	7.0	7.0	6.7	7.0
PPG-TF 318	6.7	7.0	7.3	7.0	7.0	7.0	7.0
PPG-TF 337	6.7	7.0	7.0	7.0	7.3	7.0	7.0

TABLE 10. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
(CONT'D) MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RH1	6.7	7.0	7.3	7.0	7.0	7.0	7.0
RHL2	6.7	7.0	7.0	7.3	7.0	7.0	7.0
TF456	7.0	7.0	7.0	7.3	7.3	6.3	7.0
DRAGSTER	7.0	7.3	6.7	7.0	7.0	6.7	6.9
SESCR1	6.7	7.3	6.7	6.7	7.3	7.0	6.9
SPYDER 2LS (ZRC1)	6.7	7.0	6.7	7.0	7.3	7.0	6.9
DLFPS-321/3699	6.7	7.3	7.0	7.0	7.0	6.7	6.9
DLFPS-321/3707	7.0	7.0	7.0	7.0	7.0	6.7	6.9
K18-NSE	7.0	6.7	7.0	7.0	7.0	7.0	6.9
KIZZLE (K18-ROE)	6.3	7.0	7.0	7.0	7.7	6.7	6.9
NAI-3N2	7.0	7.0	7.0	7.0	7.0	6.7	6.9
PPG-TF 262	6.7	7.0	7.0	7.3	7.0	6.7	6.9
PPG-TF 306	7.0	7.3	7.3	6.7	7.0	6.3	6.9
PPG-TF 320	7.3	7.0	7.0	7.3	6.7	6.3	6.9
PPG-TF 338	6.7	7.0	7.3	6.7	7.3	6.7	6.9
RAPTOR III	6.7	7.0	7.3	7.0	7.0	6.7	6.9
RC4	6.3	7.0	7.0	7.3	7.0	7.0	6.9
JT 233	7.3	7.0	7.0	7.0	7.0	6.0	6.9
NAI-ROS4	6.3	7.0	7.0	7.0	7.7	6.3	6.9
PARAMOUNT	7.0	7.0	7.0	6.7	7.0	6.7	6.9
PPG-TF 316	7.0	6.7	7.0	7.0	7.0	6.7	6.9
PST-5MINK	7.0	7.0	7.7	7.0	6.3	6.3	6.9
RAPTOR LS (PPG-TF 336)	6.7	7.0	7.3	6.7	7.0	6.7	6.9
DLFPS-321/3708	7.0	7.0	7.0	6.7	7.0	6.7	6.9
PST-5GLBS	7.0	7.0	6.7	6.7	7.3	6.7	6.9
PST-5TRN	6.7	7.0	7.3	7.0	7.0	6.3	6.9
STEALTH (PPG-TF 238)	6.7	7.0	7.3	6.7	7.0	6.7	6.9
TF445	6.3	7.0	7.3	7.0	7.3	6.3	6.9
ATF2116	6.7	7.0	7.0	7.0	7.3	6.0	6.8
BULLSEYE	7.0	7.0	7.0	7.0	6.7	6.3	6.8
BULLSEYE LTZ	7.0	7.0	7.0	7.0	7.0	6.0	6.8
DLFPS-321/3695	6.7	7.0	6.7	7.0	7.0	6.7	6.8
DLFPS-321/3696	6.7	7.0	7.3	7.0	6.7	6.3	6.8
GRANDE 3	6.0	6.7	7.3	7.0	7.3	6.7	6.8
NAI-FQZ-17	6.3	7.0	7.7	7.0	7.0	6.0	6.8
NATURALLY GREEN	6.7	7.0	7.0	6.7	7.0	6.7	6.8
PADRE 2	6.3	7.0	7.0	7.0	7.0	6.7	6.8
PST-5MCMO	6.3	7.0	7.0	7.3	7.3	6.0	6.8
XANADU (JT 268)	6.7	7.0	6.7	7.0	7.3	6.3	6.8
DLFPS-321/3679	6.7	7.3	6.7	7.0	7.0	6.0	6.8
PRO GOLD	6.7	6.7	7.0	7.0	7.3	6.0	6.8
PST-5THM	6.3	7.0	7.0	7.3	6.7	6.3	6.8
3B2	7.0	6.7	6.7	6.7	7.0	6.7	6.8
BAR-FA8230	7.3	7.0	6.7	6.7	6.7	6.3	6.8
MOONDANCE GLX	6.3	7.0	7.0	7.0	7.0	6.3	6.8

TABLE 10. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/ 2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PPG-TF 244	6.7	6.7	6.7	7.0	7.0	6.7	6.8
PPG-TF 257	6.3	7.0	7.0	7.0	7.0	6.3	6.8
PPG-TF 313	6.0	7.0	6.7	6.7	7.3	7.0	6.8
PST-5E6	6.3	6.7	7.0	6.7	7.3	6.7	6.8
RS1	6.3	7.0	7.0	7.0	7.3	6.0	6.8
TMT1	7.0	7.3	6.7	6.3	7.0	6.3	6.8
FAYETTE	6.3	6.7	6.7	7.0	7.3	6.3	6.7
LBF	6.7	7.0	6.3	6.7	7.0	6.7	6.7
MONUMENT (PST-5SQB)	6.7	7.0	7.0	6.7	7.0	6.0	6.7
PST-5BYOB	6.0	7.0	7.3	7.0	7.0	6.0	6.7
RAD-TF105	6.0	7.0	7.0	7.0	7.0	6.3	6.7
SETFM3	6.3	7.0	6.3	6.7	7.3	6.7	6.7
LIFEGUARD	6.3	6.7	7.0	7.0	7.3	6.0	6.7
PST-5GQ	6.0	6.7	7.0	7.0	7.3	6.3	6.7
ATF1768	6.7	7.0	7.3	6.7	6.7	5.7	6.7
BIRMINGHAM	6.7	7.0	7.0	6.3	7.0	6.0	6.7
BRAVO 2	6.7	7.0	6.7	6.7	7.0	6.0	6.7
PST-5DC24	6.7	7.0	7.0	7.0	6.3	6.0	6.7
PST-5DZM	6.0	7.3	6.3	7.0	7.0	6.3	6.7
RAD-TF115 (TURBO SS)	5.7	7.0	7.0	7.0	7.0	6.3	6.7
RAD-TF131	6.0	7.0	7.0	7.0	6.7	6.3	6.7
SETF104	6.0	7.0	7.0	7.0	7.0	6.0	6.7
TANGO	6.3	7.0	7.3	7.0	6.7	5.7	6.7
COPIOUS TF	6.3	7.0	7.0	6.3	7.0	6.0	6.6
GO-AOMK	6.7	6.7	6.7	7.0	6.7	6.0	6.6
SE53D2	6.3	7.0	7.0	6.7	6.7	6.0	6.6
BAR 9FE MAS	6.0	7.3	7.0	6.3	6.7	6.3	6.6
JT 517	6.0	6.7	7.0	6.7	7.0	6.3	6.6
ESCALADE	6.3	6.7	6.7	7.0	6.7	6.0	6.6
GRAND PRIX (FC15-01P)	6.0	7.0	6.7	7.0	6.7	6.0	6.6
BAR FA 8228	6.3	7.0	7.0	7.0	6.7	5.3	6.6
PPG-TF 231	6.3	6.7	7.0	6.3	7.0	6.0	6.6
AST8218LM	6.0	6.3	6.7	6.3	7.3	6.3	6.5
BANDIT	6.3	6.7	6.0	6.7	7.0	6.3	6.5
BGR-TF3	6.3	6.3	6.3	7.0	7.0	6.0	6.5
SE5STAR	6.0	7.0	7.3	6.3	7.0	5.3	6.5
SETFM2	6.3	6.7	6.3	6.7	7.0	6.0	6.5
AST8118LM	6.3	6.7	6.7	6.3	6.3	6.3	6.4
PALOMAR	6.3	7.0	6.0	6.7	6.7	6.0	6.4
A-TF31	6.7	6.7	6.3	6.0	6.3	6.0	6.3
OG-WALK	6.3	6.3	7.0	5.7	6.7	5.7	6.3
KENTUCKY-31	6.3	6.0	6.0	6.7	6.0	5.0	6.0
LSD VALUE	1.0	0.6	0.7	0.7	0.7	0.8	0.4
C.V. (%)	9.1	5.2	6.5	5.8	6.3	8.1	3.3

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.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (IN THE PACIFIC REGION) 1/
2020 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/										MEAN
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
K18-NSE	3.7	3.3	4.3	5.0	5.0	6.7	7.7	6.0	7.0	4.7	5.3
AVENGER III (PPG-TF 308)	5.0	4.0	4.3	5.7	4.7	5.0	6.3	6.0	7.3	4.0	5.2
AH1	2.7	3.3	3.7	6.0	5.7	5.7	6.3	6.7	7.7	4.3	5.2
PPG-TF 313	3.3	3.7	3.7	4.7	4.7	6.3	6.3	7.0	7.3	4.3	5.1
DLFPS-321/3707	5.0	3.7	4.0	5.7	5.0	5.0	6.0	6.3	6.3	4.0	5.1
PPG-TF 267	2.7	3.3	4.0	5.0	4.3	5.7	6.7	7.0	7.3	4.3	5.0
PADRE 2	4.0	3.3	4.3	6.0	4.7	5.0	5.7	6.3	6.7	4.3	5.0
GO-RH20	3.0	3.0	4.3	5.7	4.7	5.3	7.0	6.0	6.3	4.0	4.9
DLFPS-321/3702	3.0	3.3	4.3	5.3	4.7	5.3	6.3	6.0	6.7	3.7	4.9
AH2	3.0	2.7	4.3	5.3	5.0	5.3	5.7	6.3	7.0	3.7	4.8
5LSS	3.3	2.3	3.0	4.7	4.7	6.7	7.3	6.3	6.0	3.7	4.8
DLFPS-321/3703	3.0	3.3	4.0	5.7	4.7	5.3	5.7	5.7	6.7	4.0	4.8
DLFPS-TF/3553	3.7	2.7	3.7	4.3	4.3	6.3	7.0	6.0	6.3	3.7	4.8
DRAGSTER	3.7	3.3	4.0	5.0	4.7	5.7	5.7	5.7	6.7	3.7	4.8
DLFPS-321/3708	4.0	3.7	4.0	5.3	4.3	5.0	6.0	5.3	6.3	3.7	4.8
DLFPS-TF/3552	3.3	3.0	4.0	5.3	4.0	5.0	5.7	6.0	6.7	4.7	4.8
PPG-TF 262	3.3	3.0	4.0	4.7	5.0	5.3	6.0	6.3	6.3	3.3	4.7
PPG-TF 305	2.7	3.7	3.3	5.3	4.3	6.3	6.0	6.0	6.3	3.3	4.7
RH1	3.3	2.7	3.7	4.7	4.3	5.7	5.0	5.7	7.0	5.0	4.7
PPG-TF 231	3.7	3.3	4.3	5.3	4.3	5.0	5.3	6.3	6.0	3.3	4.7
FIRECRACKER G-LS (PPG-TF 315)	2.7	2.7	3.3	6.0	5.0	6.0	5.0	6.7	6.3	3.0	4.7
PARAMOUNT	3.3	3.3	4.0	4.7	5.3	5.3	6.0	5.3	6.0	3.3	4.7
PPG-TF 338	4.0	3.3	4.3	4.7	4.0	5.0	6.3	6.0	6.0	3.0	4.7
PPG-TF 320	3.0	3.0	3.7	5.7	5.0	5.3	4.7	5.3	6.7	4.0	4.6
ZION (BAR TF 134)	3.0	2.7	3.7	6.0	4.3	6.3	5.0	5.3	6.3	3.7	4.6
ESTRENA	3.0	2.7	3.3	5.0	4.7	5.7	5.3	6.0	6.3	4.3	4.6
LBF	2.7	3.3	4.7	5.0	4.3	5.0	5.0	5.3	6.0	4.7	4.6
RAPTOR LS (PPG-TF 336)	3.7	3.7	4.0	5.0	4.3	5.0	5.3	4.7	6.3	4.0	4.6
RAPTOR III	2.7	2.7	3.3	5.0	4.3	6.0	5.7	6.3	6.0	3.7	4.6
RHF	2.7	2.7	3.3	5.0	4.3	5.7	6.0	5.7	6.3	4.0	4.6
3B2	3.0	3.0	3.7	5.0	4.3	5.0	5.7	5.0	6.7	4.0	4.5
BY-TF-169	3.7	3.0	3.7	5.0	4.0	5.0	5.7	5.3	6.0	4.0	4.5
DYNAMITE G-LS (PPG-TF 254)	2.7	2.7	3.3	4.3	4.7	5.3	5.7	6.0	6.3	4.3	4.5
JT 233	3.0	3.0	3.3	5.0	4.7	5.7	5.7	6.0	5.7	3.3	4.5
OKEEFE (LTP-TF-122)	3.3	3.0	3.7	4.7	4.0	4.3	5.7	5.7	7.0	4.0	4.5
TF456	2.7	3.0	4.0	4.7	4.7	5.3	5.7	5.7	6.3	3.3	4.5
TITANIUM G-LS (PPG-TF 255)	2.7	3.0	3.3	4.7	4.0	5.0	6.0	5.7	7.0	4.0	4.5
DLFPS-321/3706	3.0	2.3	3.3	4.3	3.7	5.7	5.7	6.0	6.7	4.3	4.5
RDC	3.0	3.3	3.7	4.7	4.0	5.0	5.7	5.3	6.3	4.0	4.5
BIRMINGHAM	4.3	4.3	4.3	4.7	4.3	5.0	5.0	3.7	6.0	3.3	4.5
BULLSEYE LTZ	2.3	3.3	3.3	5.0	4.0	4.7	6.7	6.7	5.7	3.0	4.5
FAYETTE	3.7	4.0	4.3	4.3	4.3	5.0	4.0	4.7	6.0	4.3	4.5
SPYDER 2LS (ZRC1)	2.7	3.0	3.7	4.0	4.0	5.7	6.0	5.7	6.0	4.0	4.5
COL-TF-148	2.3	2.7	4.0	4.0	4.0	6.3	5.7	5.3	6.0	4.0	4.4

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (IN THE PACIFIC REGION) 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/											
NAME	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DLFPS-321/3701	3.3	2.7	3.7	4.7	4.7	5.3	5.3	5.3	6.0	3.3	4.4
PPG-TF 249	2.7	3.0	3.7	5.0	3.7	5.3	6.3	5.0	6.0	3.7	4.4
PST-5GQ	3.0	3.0	4.0	4.7	4.3	5.0	5.7	5.0	6.3	3.3	4.4
PPG-TF 323	2.0	2.7	3.3	4.7	4.7	5.3	5.7	6.3	6.3	3.3	4.4
TANGO	3.3	3.0	3.7	4.7	4.7	5.0	5.3	5.0	6.0	3.7	4.4
TMT1	3.3	3.3	3.7	4.3	4.0	5.0	5.7	5.7	6.0	3.3	4.4
PST-5DC24	3.3	3.0	4.3	4.7	4.7	4.7	5.0	4.0	6.3	4.0	4.4
NAI-ROS4	3.0	2.3	3.0	5.3	4.3	5.0	4.7	5.7	6.3	4.3	4.4
NAI-ST5	2.7	3.0	4.0	4.3	3.3	5.3	5.3	5.3	6.7	4.0	4.4
DLFPS-TF/3550	2.7	2.3	3.7	4.3	4.0	6.0	6.0	5.0	6.3	3.3	4.4
NAI-3N2	2.3	2.0	3.7	4.3	5.0	4.7	5.3	6.3	6.7	3.3	4.4
PPG-TF 306	3.0	2.7	3.7	4.3	3.7	5.0	4.7	6.3	6.3	4.0	4.4
PST-5THM	3.3	2.7	4.3	5.7	5.0	4.7	4.3	4.0	6.0	3.7	4.4
A-TF31	2.7	3.0	3.3	5.0	3.3	5.3	5.7	5.0	6.3	4.0	4.4
BONFIRE (JS DTT)	2.0	2.3	4.0	4.3	4.0	6.0	6.3	5.7	6.0	3.0	4.4
GRANDE 3	3.0	2.7	3.3	4.3	3.7	4.7	5.0	5.3	6.7	5.0	4.4
TD2	2.3	2.3	3.0	4.7	3.7	5.7	5.7	6.0	6.3	4.0	4.4
3N1	3.3	3.0	4.0	5.3	4.3	5.0	5.0	4.3	5.7	3.3	4.3
DEGAS (LTP-TF-111)	3.0	3.0	4.3	4.7	3.3	4.3	5.3	5.3	6.0	4.0	4.3
SE53D2	3.0	2.7	3.7	5.3	4.3	5.3	4.7	5.0	5.7	3.7	4.3
SESCR1	2.7	2.7	3.7	4.0	4.3	5.3	5.0	5.3	6.0	4.3	4.3
ATF1768	2.7	2.7	4.0	4.3	3.7	5.3	5.3	5.0	6.3	3.7	4.3
BANDIT	3.0	3.0	4.3	4.3	3.7	5.0	4.3	5.0	6.7	3.7	4.3
DLFPS-321/3699	3.3	3.0	3.7	5.0	3.7	4.7	5.0	4.7	6.3	3.7	4.3
FIREHAWK SLT	3.3	3.3	3.7	5.0	3.3	5.7	5.0	4.0	6.0	3.7	4.3
NT-3	2.7	2.3	3.3	5.0	3.7	5.3	5.7	5.3	6.3	3.3	4.3
PPG-TF 337	2.7	2.3	2.7	4.0	4.0	5.0	5.7	6.3	6.7	3.7	4.3
PST-5BYOB	2.7	2.3	3.3	4.3	4.7	5.3	4.7	5.0	6.7	4.0	4.3
BAR-FA8230	3.7	3.0	4.0	4.7	4.0	5.0	4.0	4.7	6.0	3.7	4.3
NATURALLY GREEN	3.3	3.3	3.7	4.3	4.0	5.0	4.7	4.7	6.0	3.7	4.3
RAD-TF105	3.3	2.3	3.3	5.0	4.0	5.3	5.0	5.0	6.3	3.0	4.3
NAI-FQZ-17	2.7	2.3	3.7	5.3	4.3	4.7	4.3	4.7	6.3	4.0	4.2
NAI-TUE	2.7	2.7	3.3	4.7	4.0	5.7	5.0	5.3	6.0	3.0	4.2
PPG-TF 244	2.7	2.3	3.7	4.0	3.7	4.7	5.0	5.0	7.0	4.3	4.2
COPIOUS TF	2.3	2.7	3.7	4.7	4.0	4.7	4.7	5.0	6.7	3.7	4.2
GLX ACED (PST-5DART)	3.0	2.3	3.0	4.7	4.0	5.0	5.3	5.0	5.7	4.0	4.2
MOONDANCE GLX	3.3	3.0	4.0	4.7	4.3	4.7	5.0	4.0	5.3	3.7	4.2
PST-5E6	3.0	2.7	3.7	4.7	4.3	4.7	4.7	4.3	5.7	4.3	4.2
PST-5MCMO	2.7	2.7	4.0	5.7	4.7	4.7	4.0	4.3	5.7	3.7	4.2
RH3	2.7	2.7	3.3	5.0	4.0	5.0	5.3	4.7	6.0	3.3	4.2
STEALTH (PPG-TF 238)	3.0	2.0	2.7	4.3	3.3	5.3	6.0	5.7	6.7	3.0	4.2
BRAVO 2	3.0	2.7	3.7	4.7	3.7	5.0	4.7	4.7	5.7	4.0	4.2
DLFPS-321/3679	3.3	3.0	3.3	4.7	4.0	4.7	4.3	4.7	6.0	3.7	4.2
GO-AOMK	3.0	3.0	3.7	5.0	4.3	4.3	5.0	4.7	5.7	3.0	4.2
PRO GOLD	2.3	2.7	3.7	5.0	4.0	4.7	4.7	4.3	6.0	4.0	4.1

TABLE 11.
(CONT'D) MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (IN THE PACIFIC REGION) 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/											
NAME	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PST-5GLBS	3.3	2.3	3.3	4.3	4.0	5.0	5.0	5.0	5.7	3.3	4.1
PST-5TRN	2.0	2.7	3.7	5.0	4.7	5.3	4.3	4.3	5.7	3.7	4.1
TF445	2.0	2.7	3.3	4.3	3.7	5.3	5.3	5.0	6.0	3.7	4.1
DLFPS-321/3694	1.7	1.7	2.3	4.0	2.7	4.7	6.0	6.7	7.0	4.3	4.1
DLFPS-321/3696	2.3	2.3	3.7	4.7	4.0	5.3	4.3	5.0	6.3	3.0	4.1
HEMI	1.7	2.3	3.0	3.7	4.0	5.7	5.0	6.0	6.0	3.7	4.1
KIZZLE (K18-ROE)	3.3	2.7	3.3	4.3	4.0	4.7	4.3	4.0	6.0	4.3	4.1
PPG-TF 318	1.3	2.3	2.7	4.7	3.7	5.0	5.7	5.7	6.3	3.7	4.1
ATF2116	2.7	2.7	3.7	4.3	3.7	5.0	4.3	4.3	6.7	3.3	4.1
ESCALADE	2.7	3.0	4.0	4.3	4.0	4.3	3.7	4.7	6.0	4.0	4.1
K18-WB1	2.3	2.3	3.7	4.0	3.0	4.3	4.7	6.3	6.0	4.0	4.1
LIFEGUARD	2.7	2.7	3.7	4.0	3.7	5.3	4.3	4.7	6.0	3.7	4.1
RHL2	2.0	1.7	2.3	3.3	3.0	5.3	5.7	6.7	6.7	3.7	4.0
DLFPS-321/3705	2.0	2.3	3.0	4.3	3.7	5.0	5.0	5.0	6.3	3.7	4.0
DLFPS-321/3695	2.3	2.3	3.3	4.7	3.3	5.0	4.7	4.7	5.7	4.0	4.0
PALOMAR	2.3	3.7	3.7	4.7	3.7	5.0	3.7	4.0	5.7	3.7	4.0
XANADU (JT 268)	2.3	1.7	2.7	4.0	3.3	5.3	5.0	5.3	6.7	3.7	4.0
BULLSEYE	3.0	3.3	3.7	4.3	3.3	4.7	4.3	3.7	5.3	4.0	4.0
MONUMENT (PST-5SQB)	2.0	2.3	3.0	4.3	4.0	5.0	4.7	4.0	6.3	4.0	4.0
OG-WALK	2.7	3.3	4.0	5.3	4.3	4.0	3.7	3.7	5.0	3.7	4.0
PPG-TF 316	2.0	1.3	3.0	4.0	3.3	4.3	5.3	5.3	7.0	4.0	4.0
AST8118LM	2.3	2.7	3.0	3.7	3.7	4.3	4.7	4.7	7.0	3.7	4.0
PPG-TF 257	2.3	2.0	3.3	4.7	4.0	4.7	4.7	4.3	6.0	3.7	4.0
PPG-TF 312	1.3	1.7	2.7	3.7	3.0	5.3	6.0	6.0	6.3	3.7	4.0
GRAND PRIX (FC15-01P)	2.7	2.7	3.3	4.3	3.7	4.7	4.0	4.0	6.0	4.0	3.9
JT 517	3.0	2.3	3.0	4.0	4.0	4.3	4.0	4.3	6.7	3.7	3.9
BGR-TF3	3.0	3.3	3.3	3.7	3.3	4.7	4.0	4.0	6.3	3.7	3.9
AST8218LM	3.0	3.0	3.7	4.7	3.7	4.3	3.3	4.0	6.0	3.3	3.9
K18-RS6	2.0	1.7	3.0	3.3	3.0	5.7	5.0	5.7	6.0	3.7	3.9
RS1	1.7	2.0	2.7	4.0	3.0	4.3	6.0	5.0	6.3	4.0	3.9
SETFM2	2.0	2.0	2.7	4.7	3.7	4.7	4.3	4.0	7.0	4.0	3.9
DLFPS-321/3693	1.7	2.0	2.7	4.7	3.3	5.0	5.3	4.7	5.7	3.7	3.9
RC4	1.3	1.3	2.7	4.0	3.7	4.7	5.3	5.7	6.7	3.3	3.9
SETFM3	3.0	2.3	3.3	4.0	3.7	4.3	4.0	4.3	6.3	3.0	3.8
PST-5DZM	2.0	1.7	3.0	4.3	3.7	5.0	4.3	4.3	6.0	3.3	3.8
BAR FA 8228	3.3	2.7	3.7	4.0	3.7	4.0	3.3	4.0	5.3	3.3	3.7
PST-5MINK	2.7	2.3	3.7	4.0	3.7	4.7	4.0	4.0	5.3	3.0	3.7
BAR 9FE MAS	2.3	2.0	3.3	4.0	4.0	4.3	3.7	4.3	5.3	3.3	3.7
SE5STAR	2.0	2.0	3.3	3.7	3.7	4.3	4.3	4.0	5.3	3.3	3.6
SETF104	2.3	1.7	2.3	3.7	3.0	4.0	4.3	4.3	5.7	3.7	3.5
RAD-TF131	2.0	1.7	2.3	3.3	2.3	4.7	4.3	4.3	6.3	3.3	3.5
RAD-TF115 (TURBO SS)	1.0	2.0	2.3	3.3	2.3	3.7	4.0	4.0	6.0	4.0	3.3
KENTUCKY-31	4.0	4.0	3.7	2.7	2.7	2.3	2.0	2.0	4.0	2.3	3.0
LSD VALUE	1.8	1.5	1.8	1.5	1.3	1.3	1.7	1.5	1.0	1.0	0.9
C.V. (%)	39.4	34.9	31.8	20.8	20.4	15.6	20.9	17.8	10.2	16.1	12.7

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

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

TABLE 12.

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

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT SPRING	GROUND SUMMER	COVER FALL	APR	MAY	QUALITY JUN JUL	RATINGS AUG SEP	OCT	NOV	MEAN	
PST-5THM	7.3	6.7	8.7	7.0	6.3	6.7	96.7	95.7	58.3	7.0	7.3	7.0	6.7	7.0	7.7	5.7	6.9
BY-TF-169	7.7	7.0	7.3	5.7	7.3	6.3	96.3	95.0	43.3	6.3	7.0	7.0	7.0	7.0	6.7	7.0	6.8
DLFPS-321/3693	8.0	6.7	9.0	7.0	5.3	6.7	96.3	97.7	49.3	7.0	7.3	7.0	6.7	6.0	7.3	7.0	6.3
XANADU (JT 268)	6.7	7.7	7.3	6.7	6.7	6.7	86.7	93.7	53.3	6.3	7.7	6.7	7.0	6.7	6.7	7.0	6.3
NAI-3N2	6.3	6.3	8.0	6.7	6.7	6.7	96.7	97.0	65.0	6.7	7.0	7.0	7.0	6.7	7.0	6.7	6.0
PARAMOUNT	7.3	7.0	7.3	6.7	6.0	6.0	94.7	96.7	44.7	6.7	7.7	7.0	7.0	6.0	6.7	7.0	6.3
PST-5DZM	6.7	6.7	7.3	6.7	6.7	6.7	91.7	96.0	62.3	6.3	7.3	7.0	7.0	6.7	7.0	7.0	5.7
SPYDER 2LS (ZRC1)	6.7	6.7	7.7	6.3	7.7	6.7	98.0	93.7	54.0	6.7	7.7	7.0	6.7	7.0	6.7	7.3	5.7
A-TF31	6.7	7.0	8.0	7.7	5.7	7.0	91.0	97.0	52.0	6.3	7.7	7.0	7.3	6.0	6.7	7.3	5.3
ATF2116	7.7	7.3	8.0	6.3	6.3	6.7	92.3	97.7	54.0	7.0	7.0	7.0	7.3	6.3	6.7	6.7	5.7
ZION (BAR TF 134)	7.0	7.0	7.7	7.0	5.3	6.0	92.3	96.3	56.3	6.7	7.3	6.7	7.0	6.3	6.7	7.0	5.7
K18-NSE	7.0	6.7	6.0	6.7	5.7	6.3	94.7	96.3	56.0	6.7	7.0	7.0	7.0	6.0	7.3	6.7	6.0
NT-3	7.7	7.0	9.0	6.7	6.3	6.3	94.7	98.0	43.0	7.0	7.0	7.0	7.0	6.0	6.7	7.0	5.7
PRO GOLD	6.3	6.0	8.7	6.7	7.3	6.3	96.3	96.3	56.7	6.3	7.0	6.7	6.7	7.0	6.7	6.7	6.3
PST-5DC24	7.0	7.0	7.3	6.0	6.0	6.0	96.0	97.3	56.0	7.0	7.0	7.3	6.7	6.3	6.7	6.7	6.0
RDC	7.3	6.7	8.0	6.3	7.3	6.3	91.7	95.0	45.0	6.0	7.0	6.3	7.3	6.7	7.3	6.7	6.0
RH1	6.7	7.0	7.7	7.0	6.3	6.0	96.0	97.3	46.3	6.7	7.7	7.0	6.7	7.0	6.0	6.7	5.7
SETFM2	6.7	6.3	8.0	6.0	7.0	6.3	96.3	95.0	64.7	6.7	7.0	6.7	7.0	7.0	6.7	7.0	5.7
5LSS	7.3	7.0	7.3	6.7	6.0	6.0	90.7	97.3	44.7	6.3	7.0	7.0	7.3	6.0	6.7	7.0	5.3
AH1	6.3	6.7	8.0	6.7	6.3	7.0	83.7	98.0	49.3	6.0	6.7	6.7	7.0	6.3	7.0	7.0	6.0
DLFPS-321/3695	8.0	7.0	8.7	7.0	6.3	6.0	94.3	98.0	29.3	7.3	7.0	7.0	6.7	6.7	6.3	6.3	5.3
DLFPS-321/3703	7.7	7.7	8.7	6.7	6.3	5.7	86.3	96.7	60.0	6.7	7.0	7.0	7.0	6.3	6.7	6.3	6.0
DLFPS-321/3706	6.3	6.0	7.7	6.7	6.0	6.7	98.0	97.7	52.3	6.7	7.0	6.7	7.0	6.3	6.7	7.0	5.7
DLFPS-321/3708	6.3	7.3	6.7	7.0	6.0	6.3	88.0	97.3	56.7	6.3	7.0	6.7	7.0	6.3	7.0	7.3	5.3
FIRECRACKER G-LS (PPG-TF 315)	7.0	7.3	8.3	6.3	6.3	6.7	92.3	96.3	42.3	7.0	7.0	7.0	7.0	6.7	6.7	6.7	5.0
JT 233	5.7	7.3	8.0	7.3	6.0	6.3	91.0	96.3	59.3	6.3	7.7	6.3	6.7	6.3	6.7	7.0	5.7
K18-RS6	6.3	6.7	8.0	7.0	6.3	6.3	95.7	96.7	46.7	6.7	7.3	6.7	7.0	6.3	6.7	6.7	5.3
KIZZLE (K18-ROE)	7.7	7.0	8.3	6.7	6.0	6.3	86.0	94.7	66.3	6.7	7.0	7.0	7.0	6.3	7.0	6.3	5.7
LBF	7.3	7.7	8.7	6.3	6.7	5.7	85.0	93.3	38.0	7.0	6.7	7.0	7.3	6.3	6.3	7.0	5.3
MONUMENT (PST-5SQB)	6.3	6.3	6.7	7.0	7.3	6.3	96.3	97.0	42.3	6.7	7.3	7.0	6.7	6.7	6.3	7.0	5.3
OKEEFE (LTP-TF-122)	7.3	7.3	8.7	6.3	5.7	6.3	84.3	92.0	46.7	6.3	6.7	7.0	7.7	6.3	6.3	6.3	6.0
PPG-TF 318	6.0	6.7	7.7	6.7	6.0	6.7	93.7	97.3	53.7	6.3	7.0	6.7	7.0	6.7	7.0	7.0	5.3
PST-5BYOB	6.7	5.7	8.0	6.7	6.0	6.0	98.7	96.7	58.7	6.7	7.0	7.0	7.0	6.3	6.7	6.3	5.7
PST-5E6	7.3	6.7	7.7	6.0	7.0	6.3	97.3	93.7	35.3	7.3	7.0	7.3	7.0	6.3	6.0	6.7	5.3
RS1	7.7	7.0	8.7	7.0	5.3	6.0	84.7	97.3	60.7	6.3	7.0	7.0	6.7	6.0	6.7	7.0	6.0
STEALTH (PPG-TF 238)	6.7	7.3	7.3	6.0	7.3	6.0	94.0	97.0	36.3	7.0	7.3	6.7	6.7	6.7	6.3	6.7	5.3
TF445	6.7	6.7	8.7	6.3	6.7	6.7	87.7	88.3	42.7	6.7	7.0	7.0	6.7	6.3	6.7	7.0	5.7
TMT1	7.7	7.3	8.0	7.0	5.3	7.0	94.0	97.3	36.3	6.7	7.3	7.0	7.0	6.0	6.7	7.0	5.3
AST8218LM	6.0	6.3	8.0	7.0	6.3	6.3	90.3	97.0	56.3	6.3	7.0	7.0	7.0	6.7	6.3	6.7	5.0
BAR FA 8228	7.0	7.3	8.0	6.7	6.7	6.3	89.3	95.7	33.0	6.3	7.3	7.0	7.0	6.7	6.3	6.7	5.0
BAR-FA8230	6.0	7.0	7.0	6.3	7.7	7.0	90.0	96.7	41.0	6.3	7.0	7.0	6.3	7.0	6.0	7.0	5.3
BIRMINGHAM	6.0	7.0	9.0	6.3	5.7	6.3	89.3	92.3	65.7	6.0	7.0	6.3	7.0	6.7	6.3	6.3	6.0
BRAVO 2	6.3	7.0	8.0	6.7	6.7	6.3	95.3	97.7	39.0	6.7	7.3	7.0	7.0	6.3	6.3	6.7	4.7
BULLSEYE LTZ	6.0	7.0	8.3	6.3	6.3	5.7	91.7	93.0	45.0	6.3	7.3	7.0	7.3	6.3	6.7	6.3	5.0
COL-TF-148	7.0	6.7	8.3	6.0	6.3	6.3	92.7	97.7	39.0	6.7	7.0	6.3	7.0	6.3	6.3	7.0	5.7

TABLE 12.
(CONT'D)

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

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT SPRING	GROUND SUMMER	COVER FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
DLFPS-321/3696	7.0	6.3	7.7	6.3	8.3	5.7	87.0	95.0	36.3	7.0	6.7	7.0	7.0	7.0	6.3	6.7	4.7	6.5
DLFPS-321/3701	6.7	6.3	7.7	6.3	7.0	6.0	95.0	95.3	39.3	6.7	7.0	6.7	6.7	6.7	6.7	6.7	5.3	6.5
DLFPS-321/3702	6.7	6.3	8.0	6.3	6.7	6.0	93.7	96.0	44.3	7.0	7.0	7.0	7.0	6.0	6.3	6.3	5.3	6.5
DLFPS-TF/3550	7.3	7.3	7.7	6.3	6.0	5.7	89.7	96.7	39.7	6.3	7.0	6.7	7.0	6.0	6.3	6.7	5.7	6.5
DLFPS-TF/3553	7.3	7.0	8.3	5.7	6.3	6.3	82.3	98.0	42.3	6.3	6.7	6.7	6.7	6.7	6.3	6.7	5.7	6.5
DYNAMITE 2LS (PPG-TF 336)	5.7	6.0	8.3	7.0	5.7	6.3	98.0	97.7	52.3	6.7	7.0	7.0	6.7	6.0	6.7	6.3	5.3	6.5
ESCALADE	6.3	6.3	9.0	6.0	6.0	7.0	85.0	96.7	53.3	6.3	6.3	6.7	7.0	6.7	6.7	6.7	5.3	6.5
ESTRENA	5.7	6.7	5.7	6.7	6.7	6.3	93.3	94.0	53.7	6.3	7.0	6.3	7.0	6.7	6.7	7.0	5.3	6.5
FIREHAWK SLT	6.0	7.0	8.3	5.7	7.0	6.7	93.0	95.7	44.7	6.0	6.7	7.0	7.0	6.7	7.0	6.7	5.0	6.5
GLX ACED (PST-5DART)	7.0	7.0	8.3	5.7	6.7	7.0	85.3	97.0	43.3	6.3	7.0	6.3	7.0	6.3	6.7	7.0	5.0	6.5
MOONDANCE GLX	6.7	6.7	8.0	6.3	6.3	5.7	94.0	98.0	49.7	7.0	7.3	7.0	7.0	6.3	6.3	6.0	5.3	6.5
NAI-ROS4	6.3	6.7	5.3	6.7	6.0	7.0	91.3	92.7	43.0	6.7	7.0	6.7	7.3	6.0	6.3	6.7	5.3	6.5
NAI-ST5	6.3	6.7	7.0	7.0	6.7	6.0	92.3	93.0	50.3	6.0	7.0	6.3	7.0	6.3	6.7	7.0	5.3	6.5
NAI-TUE	6.0	7.0	7.3	6.7	5.7	6.0	88.3	95.7	56.0	5.7	7.0	7.0	7.0	6.3	6.7	6.7	5.3	6.5
NATURALLY GREEN	7.3	6.7	8.0	7.0	6.0	6.0	89.3	98.0	43.0	6.7	7.0	6.7	7.0	6.0	6.7	6.7	5.7	6.5
OG-WALK	5.7	6.3	7.7	6.7	7.3	6.3	93.7	94.7	46.7	6.7	7.0	6.7	7.0	6.7	6.7	6.7	5.0	6.5
PPG-TF 231	6.3	6.3	8.7	6.3	6.0	5.7	97.0	92.3	49.7	6.7	7.0	6.7	7.0	6.7	6.7	6.0	5.3	6.5
PPG-TF 244	6.0	6.3	7.3	6.7	6.0	7.0	96.0	98.0	50.3	6.3	7.0	6.7	7.0	6.0	6.3	7.0	5.7	6.5
PPG-TF 249	6.7	7.0	8.0	6.3	6.7	6.0	92.3	92.0	31.0	6.7	7.3	6.3	7.0	6.7	6.3	6.3	5.0	6.5
PPG-TF 267	5.3	6.3	7.0	6.7	6.3	6.7	87.3	95.7	53.0	6.3	6.7	6.7	7.3	6.0	6.3	6.7	5.7	6.5
PPG-TF 305	6.7	7.0	6.3	6.7	5.7	6.3	90.3	98.7	55.3	6.7	7.0	7.0	6.7	6.3	6.3	6.7	5.0	6.5
PPG-TF 306	5.0	6.0	7.3	6.7	6.7	5.7	94.3	88.0	50.7	6.3	7.0	6.7	6.7	6.3	6.7	6.7	5.7	6.5
PPG-TF 316	6.3	7.0	8.0	6.0	6.0	6.7	88.7	98.0	43.0	6.7	7.0	6.3	7.0	6.0	6.3	7.0	5.3	6.5
PPG-TF 320	6.3	7.3	9.0	6.3	6.0	6.0	89.0	97.0	54.0	6.3	7.0	6.0	7.0	6.7	6.3	7.0	5.7	6.5
PPG-TF 323	6.3	6.7	8.0	6.3	6.3	6.0	92.0	97.0	58.7	6.0	6.7	6.7	7.0	6.3	6.7	6.7	6.0	6.5
RAPTOR GLS (PPG-TF 254)	6.3	6.7	7.3	6.7	7.3	6.3	91.7	96.7	38.0	6.7	7.0	7.0	6.7	6.7	6.3	6.3	5.0	6.5
RAPTOR III	6.3	6.7	8.0	6.3	6.3	6.3	94.0	94.7	36.0	6.7	7.0	6.7	6.7	6.3	6.3	6.7	5.7	6.5
SETFM3	6.0	7.0	7.3	6.3	6.7	6.3	86.0	96.7	52.0	5.7	6.7	7.0	7.0	7.0	6.7	6.3	5.3	6.5
TANGO	7.0	6.7	7.7	6.0	6.7	6.3	94.7	98.3	37.0	7.0	7.0	7.0	7.0	6.0	6.0	6.7	5.0	6.5
BANDIT	5.7	6.0	7.0	7.0	6.0	6.7	95.0	98.7	54.0	5.7	7.0	6.7	7.0	6.3	6.3	6.7	5.7	6.4
BGR-TF3	7.0	6.7	8.3	6.3	7.0	5.7	86.3	97.0	29.7	6.3	7.0	7.0	6.7	6.3	6.3	6.3	5.0	6.4
BONFIRE (JS DTT)	6.7	7.0	7.7	6.3	6.0	6.0	82.3	95.3	47.3	5.7	7.0	6.3	7.0	6.3	6.3	6.7	6.0	6.4
DLFPS-321/3705	6.3	5.7	8.0	6.7	7.0	6.3	97.7	96.3	33.7	7.0	7.0	6.7	6.7	6.3	5.7	7.0	5.0	6.4
DLFPS-321/3707	6.3	7.3	6.3	6.7	6.3	6.0	91.3	94.3	40.3	6.7	7.0	7.0	7.0	6.3	6.3	6.7	4.3	6.4
DLFPS-TF/3552	7.0	6.3	8.7	6.7	5.7	6.3	92.0	94.7	46.3	6.3	7.0	6.3	7.0	6.0	6.3	6.7	5.3	6.4
GO-RH20	5.7	6.7	8.7	5.7	7.0	6.3	86.7	89.0	47.7	5.7	6.7	6.7	7.0	7.0	6.7	6.3	5.3	6.4
GRANDE 3	7.0	7.0	8.3	5.7	6.0	6.3	76.3	96.0	53.0	6.3	6.3	6.3	7.0	6.3	6.7	7.0	5.3	6.4
KENTUCKY-31	6.0	5.7	8.0	6.3	7.0	6.7	90.3	86.3	57.7	6.3	6.7	6.3	6.7	6.3	6.7	6.3	5.7	6.4
PPG-TF 257	6.3	6.3	8.3	6.3	6.7	5.3	91.0	97.0	49.3	6.7	6.7	6.7	6.7	6.7	6.3	6.3	5.0	6.4
PST-SMCMO	6.7	6.3	7.7	7.0	6.3	6.3	90.7	98.0	44.0	6.3	7.0	7.0	7.0	6.0	6.0	6.7	5.3	6.4
RAD-TF131	6.0	7.3	7.3	7.0	5.7	5.3	87.3	96.3	45.7	6.3	7.3	7.0	7.0	6.0	6.7	6.3	4.7	6.4
RHF	6.0	6.0	9.0	6.0	6.7	6.7	94.3	96.7	43.0	6.0	7.0	6.7	7.0	6.3	6.7	6.7	5.0	6.4
SETF104	6.0	7.0	7.7	6.0	7.3	6.7	91.0	83.0	39.7	6.0	7.0	6.7	6.3	6.7	6.3	7.0	5.3	6.4
TD2	7.7	7.0	8.0	6.3	7.7	6.0	88.7	96.3	26.3	6.3	7.0	6.7	6.3	6.7	6.0	7.0	5.0	6.4
3B2	5.3	6.0	8.3	7.0	6.3	6.7	90.0	95.0	42.3	6.0	7.0	7.0	7.3	6.0	6.3	6.3	4.7	6.3

TABLE 12.
(CONT'D)

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

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT SPRING	GROUND SUMMER	COVER FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
3N1	6.0	5.7	7.7	6.3	6.0	5.7	90.0	96.0	42.3	6.3	6.7	6.7	7.0	6.3	6.3	6.0	4.7	6.3
ATF1768	7.3	6.7	8.0	6.3	8.0	5.7	94.3	92.7	19.7	6.7	7.0	6.7	7.3	6.7	5.7	6.0	4.3	6.3
AVENGER III (PPG-TF 308)	6.7	6.0	8.7	6.7	6.0	6.3	89.3	98.0	39.0	6.3	6.7	6.7	6.7	6.3	6.3	6.3	5.0	6.3
BAR 9FE MAS	8.0	7.3	6.7	6.0	7.0	6.0	77.0	95.0	25.0	6.7	6.3	7.0	7.0	6.3	6.0	6.7	4.3	6.3
DEGAS (LTP-TF-111)	7.3	7.0	8.0	5.7	5.3	6.7	81.3	97.3	49.7	6.0	6.3	6.0	7.0	6.3	6.7	6.7	5.3	6.3
DLFPS-321/3699	5.7	5.3	8.3	6.0	7.0	6.0	87.0	93.0	46.3	6.3	6.3	6.0	7.3	6.3	6.3	6.3	5.0	6.3
DRAGSTER	6.0	6.3	7.7	5.7	6.3	6.3	94.7	96.3	37.0	6.7	6.7	6.7	7.0	6.3	6.3	6.3	4.3	6.3
FAYETTE	7.3	6.7	9.0	6.3	6.0	6.7	83.7	96.7	47.7	6.3	6.7	6.0	7.0	6.0	6.7	7.0	4.7	6.3
GO-AOMK	6.3	6.3	7.3	7.0	6.0	6.3	90.3	96.0	42.0	6.3	7.0	7.0	7.0	6.0	5.7	6.7	5.0	6.3
GRAND PRIX (FC15-01P)	6.0	6.3	8.0	6.7	6.7	5.3	95.3	92.0	31.0	6.3	7.0	6.7	7.3	6.0	6.0	6.0	4.7	6.3
HEMI	6.3	6.7	8.3	6.3	6.7	6.7	95.3	92.0	33.7	6.3	7.0	6.3	7.0	6.3	6.0	6.7	5.0	6.3
LIFEGUARD	6.3	5.7	8.0	6.0	6.0	6.3	93.7	96.0	34.7	6.7	6.7	6.3	7.0	6.0	6.7	6.3	4.7	6.3
NAI-FQZ-17	6.3	6.3	7.3	6.7	5.7	6.0	94.3	97.0	37.3	6.0	7.0	6.7	7.0	6.0	6.0	6.7	4.7	6.3
PADRE 2	6.3	6.7	7.7	6.0	7.3	5.3	95.3	96.3	28.0	6.7	7.0	7.0	6.7	6.3	6.0	6.0	4.7	6.3
PALOMAR	6.7	7.3	7.0	6.0	6.7	7.0	86.0	96.3	30.7	6.3	6.7	7.0	7.3	6.3	5.7	7.0	4.3	6.3
PPG-TF 262	6.7	6.7	7.7	6.7	6.3	5.7	88.0	94.7	31.7	6.3	7.0	6.7	6.7	6.0	6.7	6.3	4.3	6.3
PPG-TF 312	6.3	6.3	7.7	6.3	6.3	6.7	82.0	96.7	64.7	6.3	6.0	6.3	7.0	6.3	7.0	6.3	5.0	6.3
PPG-TF 337	6.0	5.7	6.0	7.0	6.7	6.0	97.3	97.7	45.0	6.3	7.0	6.3	7.0	6.3	6.0	6.3	5.0	6.3
PPG-TF 338	6.3	6.7	8.7	6.7	6.3	6.0	88.0	94.0	40.3	6.3	7.0	7.3	7.0	6.0	6.3	6.0	4.7	6.3
PST-5MINK	6.7	6.3	7.7	6.3	6.0	6.3	90.0	97.7	37.3	6.3	6.7	6.7	7.0	6.0	6.3	6.7	5.0	6.3
PST-5TRN	7.0	7.0	8.3	6.0	6.0	6.7	85.0	96.7	40.0	6.3	7.0	6.3	7.0	6.3	6.0	6.7	4.3	6.3
RAD-TF105	6.3	7.0	6.7	6.3	7.0	5.3	87.3	85.3	44.0	6.0	7.0	7.0	7.0	6.7	6.3	6.0	4.3	6.3
RH3	6.0	6.7	8.0	7.0	6.7	5.7	96.0	97.3	50.3	6.3	7.0	6.3	7.0	6.3	6.7	6.3	4.7	6.3
RHL2	6.0	6.3	6.0	6.7	5.7	7.0	89.0	97.0	38.7	6.3	7.0	6.7	6.7	6.0	6.3	6.3	4.7	6.3
SE5STAR	6.3	6.3	8.0	6.3	6.3	5.7	91.7	96.7	34.7	6.3	7.0	6.7	7.0	6.3	6.3	6.0	4.7	6.3
SESCR1	5.0	6.0	6.7	7.0	5.7	6.3	88.3	94.0	45.7	6.0	6.7	6.7	7.0	6.0	6.3	6.7	5.0	6.3
TF456	7.0	7.3	9.0	6.7	6.7	6.3	80.3	94.7	34.3	6.0	6.7	7.0	7.0	6.3	6.0	6.7	4.7	6.3
AH2	5.7	6.3	7.7	6.7	7.7	6.0	94.7	97.7	26.7	6.3	7.3	6.7	6.7	6.7	5.7	6.3	4.0	6.2
BULLSEYE	5.7	6.7	7.0	6.3	6.7	6.0	94.7	96.0	41.0	6.0	7.0	6.0	6.7	6.3	6.3	6.7	4.3	6.2
DLFPS-321/3694	7.7	7.3	8.7	7.3	7.7	6.0	88.7	98.3	22.3	6.7	7.0	7.0	6.7	6.3	5.7	6.3	4.0	6.2
JT 517	7.7	7.3	8.0	6.0	6.0	5.7	89.7	97.3	32.7	6.3	7.0	6.3	7.0	6.0	6.3	6.3	4.3	6.2
K18-WB1	6.0	6.7	6.7	6.0	5.7	6.0	92.0	98.7	34.0	6.3	7.0	6.3	7.0	6.0	6.0	6.3	4.7	6.2
PST-5GLBS	6.0	6.3	8.0	6.3	6.7	6.0	90.0	96.7	37.7	6.3	6.7	6.7	7.0	6.0	5.7	6.7	4.3	6.2
PST-5GQ	7.3	8.0	8.3	6.3	6.3	6.3	84.3	98.3	44.0	6.3	7.0	6.3	7.0	6.3	6.3	6.0	4.3	6.2
PPG-TF 313	6.7	6.3	8.3	6.7	5.7	5.7	83.7	97.0	33.3	6.7	6.7	6.7	7.0	6.0	6.0	5.7	4.3	6.1
RAD-TF115 (TURBO SS)	6.3	6.0	7.7	5.7	6.7	6.0	88.3	96.3	38.0	6.0	6.3	6.3	7.0	6.3	6.3	6.3	4.3	6.1
RC4	6.7	7.3	7.7	6.3	6.0	6.0	69.3	92.3	41.3	5.7	6.0	6.3	7.0	6.0	6.3	6.3	5.0	6.1
SE53D2	6.0	7.3	8.3	6.3	6.0	6.3	91.0	98.3	29.0	6.3	7.0	7.0	7.0	6.0	5.7	6.0	4.0	6.1
AST8118LM	6.0	6.3	8.3	6.3	7.0	5.7	79.7	92.7	28.0	5.3	6.3	6.7	6.7	6.3	5.7	6.0	5.0	6.0
TITANIUM G-LS (PPG-TF 255)	5.3	6.0	7.7	6.7	6.3	6.0	95.7	97.3	34.3	6.0	7.0	6.0	7.0	6.3	5.7	6.0	4.3	6.0
COPIOUS TF	6.0	6.0	8.3	5.7	6.0	5.3	86.0	98.0	29.0	6.0	6.3	6.3	7.0	5.7	6.0	6.0	4.0	5.9
DLFPS-321/3679	5.7	6.0	7.7	6.0	5.3	6.0	74.0	97.0	32.3	5.7	6.0	6.7	7.0	5.3	6.0	6.0	3.7	5.8
LSD VALUE	1.3	3.1	4.2	2.3	2.3	2.7	27.6	17.8	74.4	1.8	1.2	1.7	2.8	1.7	3.3	2.6	4.6	1.6
C.V. (%)	11.0	12.2	14.8	10.1	13.5	11.0	9.0	4.6	38.5	8.6	6.5	7.2	6.3	7.8	10.2	9.2	19.2	5.3

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

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

TABLE 13.

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

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

NAME	PERCENT	WEAR	TOLERANCE RATINGS		MAY	JUN	JUL	QUALITY RATINGS					MEAN
	ESTABLISHMENT	MAY	JULY	OCTOBER				AUG	SEP	OCT	NOV	DEC	
TMT1	70.0	5.7	6.0	6.0	7.3	6.7	6.7	6.7	7.3	5.7	6.7	5.7	6.6
AH1	56.7	6.7	6.0	6.3	7.0	6.7	6.7	6.7	7.0	6.3	6.0	5.3	6.5
DLFPS-321/3703	63.3	5.7	5.3	6.0	7.0	6.7	6.7	6.3	6.3	6.0	6.0	5.3	6.3
DRAGSTER	46.7	5.7	5.7	5.7	6.7	6.7	6.3	6.3	6.7	6.3	6.0	5.0	6.3
GO-RH20	63.3	5.7	5.3	6.0	7.0	6.0	6.3	6.3	6.3	6.3	6.0	5.7	6.3
NT-3	60.0	5.7	5.7	5.7	6.3	6.3	6.7	6.3	6.7	6.0	6.3	5.7	6.3
PPG-TF 306	56.7	5.0	5.0	5.7	6.7	6.7	6.3	6.7	6.7	6.0	6.0	5.7	6.3
PPG-TF 316	63.3	5.3	5.3	5.7	7.0	6.3	6.3	6.3	6.7	6.3	5.7	5.3	6.3
RH3	70.0	6.3	6.3	5.3	6.3	6.3	6.0	6.7	6.3	6.7	6.3	5.3	6.3
RHL2	60.0	6.0	5.7	5.7	7.0	6.0	6.7	6.7	6.7	6.7	6.0	5.0	6.3
SESCR1	56.7	6.0	6.3	6.0	6.7	5.7	6.7	6.7	6.7	6.3	5.7	6.0	6.3
5LSS	53.3	5.3	5.3	5.7	6.3	6.0	7.0	6.3	6.3	6.7	5.7	5.3	6.2
DYNAMITE G-LS (PPG-TF 254)	63.3	5.7	5.7	6.0	6.3	6.0	6.0	6.3	6.7	6.0	6.3	5.7	6.2
NAI-3N2	53.3	5.7	6.3	6.0	7.0	6.0	6.7	6.0	6.3	6.3	6.0	5.0	6.2
SPYDER 2LS (ZRC1)	56.7	6.0	6.0	6.7	6.7	6.3	6.3	6.3	6.0	6.3	6.3	5.3	6.2
DEGAS (LTP-TF-111)	63.3	5.7	6.0	5.7	6.3	6.0	6.0	6.7	6.7	6.0	6.0	5.3	6.1
ESTRENA	60.0	5.7	5.0	5.7	6.7	6.3	6.0	6.3	6.3	6.7	5.7	5.0	6.1
PPG-TF 231	50.0	5.7	6.0	5.7	6.7	6.0	6.3	6.3	6.0	6.7	5.7	5.3	6.1
AVENGER III (PPG-TF 308)	56.7	5.7	5.0	6.0	6.7	6.0	6.0	6.0	6.3	6.3	5.7	5.3	6.0
BONFIRE (JS DTT)	60.0	5.0	5.0	5.3	6.3	6.0	6.0	6.0	6.3	6.3	5.7	5.0	6.0
DLFPS-321/3679	60.0	4.3	5.7	5.0	6.7	6.3	6.7	5.7	6.0	6.7	5.3	5.0	6.0
DLFPS-321/3696	56.7	5.7	5.7	5.3	6.3	6.0	6.3	6.0	6.3	6.0	5.3	5.3	6.0
DLFPS-TF/3552	50.0	5.3	5.3	5.7	6.3	5.3	6.0	6.3	6.7	6.3	6.0	5.0	6.0
DLFPS-TF/3553	56.7	5.3	5.3	6.0	6.3	6.0	6.0	6.0	6.0	6.3	5.7	5.7	6.0
JT 233	60.0	5.0	5.3	5.7	6.3	6.0	6.0	6.3	6.3	6.0	5.7	5.0	6.0
NAI-ST5	56.7	5.3	5.7	5.3	6.7	5.7	5.7	6.0	6.3	6.3	5.7	5.3	6.0
OKEEFE (LTP-TF-122)	53.3	5.3	5.7	6.0	6.3	6.3	6.3	6.0	6.3	6.0	5.7	5.3	6.0
PPG-TF 262	60.0	4.3	4.3	5.3	6.7	5.7	5.7	6.0	6.3	6.3	6.3	5.3	6.0
PPG-TF 267	53.3	5.3	5.7	5.3	7.0	6.0	6.0	6.0	5.3	5.7	6.0	5.7	6.0
PPG-TF 305	60.0	4.7	4.7	5.0	6.0	6.3	5.7	6.3	6.7	6.0	6.0	5.0	6.0
PPG-TF 318	60.0	5.7	6.0	6.3	6.7	6.0	6.0	6.0	6.3	5.7	6.3	5.0	6.0
PPG-TF 323	50.0	5.0	5.0	5.7	6.7	6.3	6.3	6.0	7.0	5.3	5.7	5.0	6.0
PRO GOLD	60.0	5.3	5.7	5.7	6.7	5.3	6.3	6.7	6.7	6.3	5.0	4.7	6.0
RC4	56.7	5.3	5.7	5.7	6.7	6.3	6.0	6.0	6.3	6.0	5.7	5.0	6.0
RDC	63.3	5.3	5.3	5.3	6.0	6.0	6.0	6.3	6.7	6.0	5.7	5.3	6.0
RH1	60.0	5.7	5.3	6.0	6.7	5.7	6.7	5.7	6.0	6.3	6.0	4.7	6.0
STEALTH (PPG-TF 238)	53.3	5.3	5.0	5.0	6.0	6.0	6.0	6.3	6.3	6.0	6.0	5.7	6.0
ZION (BAR TF 134)	50.0	5.3	5.3	6.0	6.7	6.0	5.7	6.0	6.7	6.0	5.7	5.0	6.0
BULLSEYE LTZ	56.7	5.3	5.7	5.7	6.3	6.0	6.0	6.0	6.3	5.7	5.7	5.3	5.9
COL-TF-148	50.0	5.7	5.3	5.3	6.3	5.7	6.3	6.3	6.0	6.0	5.7	5.0	5.9
DLFPS-321/3694	46.7	5.3	5.7	5.3	6.7	5.3	6.3	6.0	6.3	5.7	5.7	5.0	5.9
DLFPS-321/3699	56.7	5.0	5.3	5.7	6.3	5.7	5.7	6.0	6.3	6.0	5.7	5.3	5.9
K18-RS6	53.3	5.7	5.0	5.3	6.7	5.3	6.3	6.0	6.3	6.3	5.3	4.7	5.9
NATURALLY GREEN	56.7	5.3	6.0	5.3	6.3	6.7	6.0	6.0	6.0	6.0	5.7	4.7	5.9
PARAMOUNT	46.7	5.3	6.0	6.0	6.7	6.0	5.7	5.7	6.0	6.0	6.0	5.0	5.9

TABLE 13.
(CONT'D)

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

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/												
	PERCENT ESTABLISHMENT	WEAR MAY	TOLERANCE JULY	RATINGS OCTOBER	MAY	JUN	JUL	QUALITY AUG	RATINGS SEP	OCT	NOV	DEC	MEAN
PPG-TF 337	60.0	4.7	5.0	5.0	6.3	6.3	5.7	5.7	6.0	6.0	6.0	5.0	5.9
PPG-TF 338	50.0	5.7	6.0	5.7	6.0	6.0	5.7	6.3	6.7	5.7	5.3	5.3	5.9
RS1	60.0	6.0	6.0	6.7	6.7	6.3	6.0	5.7	6.0	5.3	5.7	5.3	5.9
TD2	53.3	5.7	6.0	6.0	6.3	6.3	5.7	6.0	5.7	6.0	6.0	5.3	5.9
BY-TF-169	56.7	6.3	6.0	6.7	6.0	5.7	6.0	6.3	6.3	5.7	5.7	5.0	5.8
DLFPS-321/3695	56.7	5.7	5.7	5.7	5.7	5.7	5.7	6.0	6.0	6.0	5.3	5.7	5.8
DLFPS-321/3701	53.3	4.7	5.7	5.7	6.3	5.7	6.0	6.0	6.0	5.3	5.7	5.0	5.8
GRANDE 3	53.3	5.3	5.3	5.7	6.0	5.3	6.0	5.7	6.0	6.0	6.0	5.3	5.8
K18-NSE	60.0	6.0	6.0	6.0	6.0	5.7	5.7	6.0	5.7	6.3	6.0	5.3	5.8
K18-WB1	53.3	6.3	6.0	5.7	6.7	5.7	5.7	6.0	6.3	5.7	5.7	4.7	5.8
NAI-ROS4	46.7	5.7	5.0	6.0	6.0	6.0	6.0	5.7	6.0	6.3	5.3	5.0	5.8
PPG-TF 244	73.3	5.0	5.3	5.3	5.7	5.7	6.0	6.0	6.0	6.0	6.0	5.0	5.8
XANADU (JT 268)	53.3	5.7	5.0	6.0	6.7	6.3	5.7	5.7	5.7	5.7	5.7	5.3	5.8
AH2	50.0	5.7	5.7	5.7	6.0	5.3	5.7	6.0	6.0	5.7	5.7	5.0	5.7
BIRMINGHAM	50.0	6.0	5.0	5.3	6.3	5.3	6.0	6.0	5.7	6.0	5.0	5.0	5.7
DLFPS-321/3693	56.7	5.7	6.0	5.0	5.3	6.3	5.3	6.0	6.3	6.3	5.3	4.3	5.7
DLFPS-321/3702	53.3	5.0	5.3	6.0	6.3	6.0	5.7	6.0	5.3	6.0	5.3	5.0	5.7
DLFPS-321/3707	50.0	4.7	4.7	5.7	5.7	5.7	5.7	5.7	6.0	6.0	5.7	5.0	5.7
DLFPS-TF/3550	56.7	5.3	5.0	5.0	6.0	5.3	5.3	5.7	6.3	5.7	6.3	5.0	5.7
FIRECRACKER G-LS (PPG-TF 315)	56.7	5.0	5.0	5.3	6.0	5.7	5.7	6.0	6.0	5.7	5.3	5.0	5.7
PPG-TF 249	53.3	4.7	5.0	5.3	6.0	5.7	6.0	6.0	5.7	6.0	5.3	4.7	5.7
SETF104	60.0	5.3	5.3	5.0	6.7	6.0	5.7	6.0	5.7	5.7	5.3	4.7	5.7
3B2	36.7	5.0	4.7	4.7	5.3	6.0	5.3	6.0	6.3	5.7	5.3	5.0	5.6
3N1	40.0	6.3	6.0	6.3	6.7	5.3	5.7	5.3	5.7	5.7	5.3	5.0	5.6
BANDIT	50.0	6.0	6.3	5.7	6.0	5.7	5.7	6.0	6.3	5.0	5.3	4.7	5.6
COPIOUS TF	53.3	5.7	5.7	5.7	5.7	6.0	5.7	5.7	6.0	5.7	5.3	5.0	5.6
DLFPS-321/3705	46.7	6.0	5.7	6.0	6.0	6.0	6.0	5.3	5.7	5.3	5.3	5.3	5.6
FAYETTE	63.3	5.3	5.3	5.0	5.7	5.7	5.7	5.7	5.7	6.0	5.7	5.0	5.6
FIREHAWK SLT	46.7	6.0	5.7	5.7	6.3	5.7	5.7	5.7	5.7	5.7	5.3	5.0	5.6
HEMI	56.7	5.0	5.7	6.0	5.3	5.3	6.0	5.7	6.0	5.7	5.7	5.0	5.6
LIFEGUARD	50.0	5.3	5.7	5.7	6.3	5.7	5.7	5.7	6.3	6.0	5.0	4.3	5.6
NAI-TUE	53.3	5.0	5.3	5.0	6.0	5.3	5.3	5.3	6.3	6.0	5.3	5.3	5.6
PPG-TF 257	46.7	5.3	5.3	5.3	5.3	6.3	5.3	5.3	6.0	6.0	5.7	5.0	5.6
PPG-TF 320	56.7	5.3	5.3	5.3	6.3	5.3	5.3	5.7	6.0	5.7	5.7	5.0	5.6
PST-5BYOB	60.0	6.0	6.3	6.0	6.0	5.3	5.7	6.0	6.0	5.7	5.0	5.0	5.6
RAD-TF105	60.0	5.0	5.0	5.7	6.3	5.7	6.0	5.7	5.7	5.7	5.0	5.0	5.6
RAD-TF131	50.0	4.3	5.3	5.3	6.3	6.3	5.7	6.0	6.0	5.3	5.0	4.3	5.6
RAPTOR LS (PPG-TF 336)	50.0	5.3	5.3	5.0	6.3	5.3	5.3	6.0	5.3	5.7	5.3	5.3	5.6
SETFM3	56.7	5.3	5.7	5.0	6.3	5.7	5.3	6.0	6.3	5.3	5.3	4.7	5.6
TF456	53.3	4.3	4.3	4.7	6.0	5.7	6.0	5.7	6.0	5.7	5.3	4.7	5.6
A-TF31	50.0	5.3	6.0	5.3	6.3	5.3	5.7	5.3	5.7	5.7	5.0	4.7	5.5
ATF1768	60.0	5.3	5.7	5.7	5.7	5.3	5.7	5.7	5.3	5.7	5.7	4.7	5.5
BGR-TF3	53.3	5.7	6.0	6.0	6.0	5.7	5.3	5.3	6.0	5.7	5.3	5.0	5.5
PST-5GLBS	50.0	5.0	5.0	5.0	6.0	5.3	5.7	5.7	6.0	6.0	5.0	4.7	5.5
SE53D2	50.0	5.3	5.3	6.0	5.3	5.3	6.3	5.3	5.7	5.7	5.0	5.0	5.5

TABLE 13.
(CONT'D)

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

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/													
NAME	PERCENT ESTABLISHMENT	WEAR MAY	TOLERANCE JULY	RATINGS OCTOBER	MAY	JUN	QUALITY JUL	RATINGS AUG	SEP	OCT	NOV	DEC	MEAN
SE5STAR	43.3	5.3	5.3	5.3	6.3	5.3	6.0	5.3	6.0	5.3	4.7	4.7	5.5
SETFM2	56.7	5.3	5.7	5.7	6.0	5.3	5.7	5.7	6.0	5.3	5.0	5.3	5.5
TF445	63.3	5.7	4.7	5.3	6.3	5.3	5.7	5.7	5.0	5.7	5.3	5.3	5.5
TITANIUM G-LS (PPG-TF 255)	53.3	5.7	5.0	6.0	5.7	5.7	5.3	5.7	5.7	5.3	5.7	5.0	5.5
BULLSEYE	56.7	4.7	4.3	5.3	6.0	5.0	5.3	5.0	5.7	5.7	5.3	5.0	5.4
DLFPS-321/3706	43.3	5.0	5.0	5.0	5.7	5.0	5.3	5.7	5.7	5.3	5.3	5.3	5.4
PPG-TF 312	60.0	5.0	5.0	5.0	5.3	5.7	5.3	5.7	5.7	5.3	5.0	5.0	5.4
PST-5DZM	53.3	4.7	5.0	5.7	6.3	5.3	5.7	6.0	5.7	5.0	4.3	4.7	5.4
RAPTOR III	40.0	5.7	5.0	5.7	4.3	6.0	6.0	5.7	5.3	5.7	5.0	5.0	5.4
AST8118LM	40.0	5.7	5.7	5.3	6.0	5.0	5.0	5.0	5.7	5.3	5.0	5.0	5.3
BRAVO 2	50.0	5.0	5.7	5.0	5.3	5.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
DLFPS-321/3708	56.7	5.0	4.3	5.0	5.7	5.7	5.3	5.0	5.3	5.0	5.0	5.0	5.3
GO-AOMK	40.0	4.3	5.3	5.3	6.0	5.0	5.0	5.3	5.0	5.7	5.0	5.0	5.3
JT 517	46.7	5.3	5.3	5.3	5.3	5.7	5.0	5.7	5.3	5.3	5.3	5.0	5.3
PADRE 2	43.3	5.7	5.7	6.0	5.7	5.0	5.7	5.3	5.3	5.3	5.3	5.0	5.3
PST-5GQ	40.0	4.7	4.7	5.3	6.3	5.3	6.0	5.3	5.7	5.0	4.3	4.3	5.3
RAD-TF115 (TURBO SS)	46.7	5.3	5.0	6.0	5.3	6.0	5.3	5.3	5.3	5.3	5.0	4.7	5.3
GLX ACED (PST-5DART)	46.7	5.0	5.3	6.0	5.3	5.7	5.7	5.3	5.0	5.3	4.7	4.7	5.2
MONUMENT (PST-5SQB)	50.0	5.7	5.7	5.7	5.7	5.0	5.3	5.7	5.7	5.3	4.3	4.7	5.2
PST-5MCMO	53.3	5.3	5.3	5.7	5.7	5.0	5.3	5.3	5.3	5.3	4.7	4.7	5.2
RHF	60.0	5.0	5.0	5.3	5.0	5.3	5.0	5.7	5.3	5.3	5.3	4.7	5.2
ESCALADE	56.7	5.7	5.3	5.7	4.7	6.0	5.3	5.7	5.7	5.0	4.3	4.3	5.1
GRAND PRIX (FC15-01P)	53.3	6.3	5.3	5.3	5.0	5.7	5.3	5.3	5.3	5.0	4.3	4.7	5.1
LBF	56.7	5.0	5.7	5.7	6.0	4.7	5.0	5.7	5.7	5.0	4.3	4.7	5.1
MOONDANCE GLX	50.0	5.0	5.0	4.7	5.3	5.3	5.3	5.3	5.3	5.0	4.7	4.3	5.1
PPG-TF 313	46.7	5.0	5.0	5.7	5.0	5.0	5.0	5.3	5.3	5.0	5.3	4.7	5.1
PST-5DC24	50.0	5.0	4.7	5.3	5.3	5.0	5.3	5.0	5.3	5.0	5.0	5.0	5.1
ATF2116	43.3	5.0	4.7	4.3	5.3	5.3	5.0	5.0	5.0	4.7	4.7	5.0	5.0
KIZZLE (K18-ROE)	53.3	4.7	5.0	4.3	4.3	5.3	5.0	5.0	5.7	5.0	4.7	5.0	5.0
NAI-FQZ-17	60.0	5.0	5.3	5.0	4.7	4.7	5.3	5.3	5.0	5.3	4.7	5.0	5.0
PST-5MINK	46.7	5.3	4.7	5.0	5.3	5.3	5.3	5.0	5.7	5.0	4.0	4.0	5.0
BAR-FA8230	53.3	5.0	5.3	5.7	5.0	5.0	5.3	5.3	5.3	4.7	4.0	4.3	4.9
PST-5E6	40.0	4.7	4.7	4.7	5.7	5.0	5.3	5.3	5.0	5.0	4.0	4.0	4.9
PST-5THM	46.7	5.0	5.0	5.7	5.0	5.0	4.7	5.3	5.0	5.0	4.7	4.3	4.9
PST-5TRN	46.7	5.7	6.0	5.7	5.0	4.3	5.0	5.3	5.7	4.7	4.3	5.0	4.9
TANGO	43.3	4.3	4.3	5.0	5.0	4.3	5.0	5.0	5.7	4.7	4.3	5.0	4.9
AST8218LM	50.0	5.0	6.0	5.0	5.0	5.0	4.3	5.0	5.3	4.7	4.7	4.3	4.8
OG-WALK	50.0	5.0	5.0	5.0	4.7	5.0	4.7	5.0	5.0	4.7	4.0	5.0	4.8
BAR 9FE MAS	40.0	5.0	4.0	4.7	4.7	4.7	5.0	4.0	4.7	4.7	4.3	4.3	4.5
BAR FA 8228	46.7	5.0	5.0	5.0	4.3	4.3	4.3	4.7	5.0	4.7	4.0	4.7	4.5
PALOMAR	40.0	4.0	4.3	4.7	4.7	4.7	4.3	4.0	4.7	4.3	4.0	5.0	4.5
KENTUCKY-31	63.3	4.0	3.0	3.0	3.3	4.0	3.3	3.3	3.0	3.0	3.0	3.7	3.3
LSD VALUE	14.4	1.2	1.1	1.1	1.1	1.1	1.1	0.9	1.0	0.8	0.7	0.8	0.6
C.V. (%)	14.4	11.4	10.9	10.7	10.9	10.6	10.6	8.9	9.8	8.2	8.8	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 14.

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
DYNAMITE 2LS (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
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
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
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 14.
(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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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 14.
(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
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
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
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
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
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
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
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
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
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
RAPTOR GLS (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
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
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
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
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
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
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
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
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
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
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 15.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2020 DATA

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

NAME	SPRING GREENUP	APR	MAY	JUN	JUL	QUALITY RATINGS				MEAN
						AUG	SEP	OCT	NOV	
GRANDE 3	8.0	6.3	7.3	7.0	6.3	7.0	7.3	7.7	5.3	6.8
PST-5TRN	8.0	6.3	7.3	7.0	6.0	7.3	7.3	7.3	5.3	6.8
STEALTH (PPG-TF 238)	8.0	6.7	7.0	7.3	6.7	7.0	7.3	7.0	5.3	6.8
COPIOUS TF	7.3	6.0	7.0	6.7	6.3	7.3	7.3	7.0	5.7	6.7
FAYETTE	7.7	6.0	6.7	7.0	6.3	7.0	7.3	7.7	5.7	6.7
GO-RH20	7.7	6.7	7.3	7.3	6.3	7.0	6.7	6.7	5.7	6.7
RAD-TF115 (TURBO SS)	8.0	6.3	6.7	6.7	6.3	7.3	7.3	7.3	5.3	6.7
AVENGER III (PPG-TF 308)	8.3	6.3	7.0	6.7	6.3	7.0	7.0	7.0	5.7	6.6
DLFPS-321/3701	7.3	6.0	6.7	6.7	6.0	7.0	7.3	7.7	5.3	6.6
DRAGSTER	8.3	6.0	7.0	7.0	6.3	7.3	7.3	6.7	5.3	6.6
XANADU (JT 268)	8.0	6.3	7.3	6.7	6.0	7.0	7.0	7.3	5.3	6.6
K18-NSE	6.3	5.7	7.0	7.0	6.0	6.7	7.3	7.3	5.7	6.6
PPG-TF 257	8.0	6.0	7.0	6.7	6.0	6.7	7.3	7.7	5.3	6.6
PPG-TF 306	8.0	6.7	7.0	6.7	6.3	7.0	7.0	7.0	5.0	6.6
PRO GOLD	7.3	5.7	6.7	7.0	6.3	7.0	6.7	7.7	5.7	6.6
PST-5BYOB	8.0	6.3	7.0	6.7	6.0	7.0	7.3	7.3	5.3	6.6
PST-5GLBS	7.0	5.7	7.3	7.0	6.3	7.0	7.0	7.3	5.0	6.6
PST-5GQ	7.7	6.3	7.0	7.0	6.3	6.7	6.7	7.7	5.3	6.6
BANDIT	7.7	5.7	7.3	7.0	6.3	6.7	6.7	7.0	5.0	6.5
BIRMINGHAM	7.7	6.3	6.7	6.7	6.0	7.0	7.0	7.0	5.7	6.5
BRAVO 2	8.0	5.7	6.7	6.7	6.0	7.0	7.0	7.3	5.3	6.5
GLX ACED (PST-5DART)	7.3	5.7	7.0	6.3	5.7	6.7	7.7	7.7	5.3	6.5
MOONDANCE GLX	7.3	5.3	7.0	6.7	6.7	7.0	7.0	7.3	4.7	6.5
NAI-ROS4	7.7	6.0	6.3	6.7	6.0	7.0	7.3	7.0	5.3	6.5
NAI-TUE	7.3	6.7	6.7	6.7	6.7	6.3	6.3	7.0	5.3	6.5
PADRE 2	7.7	6.3	6.7	6.0	6.0	6.7	7.0	7.3	5.7	6.5
PPG-TF 244	8.0	6.3	7.3	6.7	6.0	6.7	6.7	7.0	5.0	6.5
PST-5MCMO	7.7	6.0	7.0	6.7	6.3	7.0	7.0	7.0	5.0	6.5
RAD-TF105	8.0	6.7	7.0	6.7	6.0	7.0	7.0	6.7	5.3	6.5
RH3	7.3	6.0	7.0	6.3	6.0	6.7	7.3	7.0	5.3	6.5
SETF104	7.3	6.3	7.0	6.0	5.7	6.7	7.3	7.3	5.3	6.5
BULLSEYE	7.3	7.0	6.3	6.7	6.0	6.7	6.3	6.3	5.7	6.4
DLFPS-321/3705	8.0	5.3	6.7	6.7	5.7	7.0	7.7	6.7	5.3	6.4
LIFEGUARD	6.7	5.7	7.0	7.0	6.3	6.7	6.3	7.0	5.3	6.4
PPG-TF 231	7.3	6.0	7.3	6.0	6.0	6.7	7.0	7.0	5.0	6.4
RAPTOR GLS (PPG-TF 254)	6.3	6.7	6.7	6.3	6.0	6.7	7.0	6.7	5.0	6.4
BONFIRE (JS DTT)	8.0	6.3	6.0	6.7	6.0	7.0	7.0	7.0	4.7	6.3
BULLSEYE LTZ	7.0	6.0	6.7	7.0	6.3	6.7	6.7	6.7	4.7	6.3
COL-TF-148	7.0	5.7	7.3	6.3	5.7	6.3	7.0	7.0	5.3	6.3
DEGAS (LTP-TF-111)	8.0	5.0	6.7	6.3	5.7	6.7	7.0	7.3	5.3	6.3
DLFPS-321/3696	7.7	7.0	7.3	6.0	5.0	6.3	6.7	7.3	4.7	6.3
DLFPS-321/3699	8.0	5.7	6.7	6.3	5.3	6.7	7.0	7.3	5.0	6.3
DLFPS-321/3703	8.0	6.3	6.7	6.3	5.7	6.7	7.0	6.7	5.0	6.3
DYNAMITE 2LS (PPG-TF 336)	6.7	6.0	6.7	6.3	6.0	6.7	6.7	6.3	5.3	6.3
FIRECRACKER G-LS (PPG-TF 315)	8.0	6.0	7.3	6.7	5.7	6.7	6.7	6.7	4.7	6.3

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2020 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/										
NAME	SPRING GREENUP	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
HEMI	7.0	6.0	6.3	7.0	6.0	6.7	7.0	7.0	4.7	6.3
JT 233	7.7	5.7	7.0	6.3	5.7	6.3	7.3	6.7	5.0	6.3
JT 517	7.7	5.7	7.0	6.3	5.7	6.7	7.0	7.0	5.0	6.3
MONUMENT (PST-5SQB)	7.0	5.7	6.7	6.7	5.7	6.7	7.0	6.7	5.0	6.3
NAI-3N2	7.7	5.7	7.0	6.7	6.0	7.0	6.7	6.7	4.7	6.3
OKEEFE (LTP-TF-122)	7.0	6.3	6.7	6.3	5.3	6.7	7.3	7.0	5.0	6.3
PPG-TF 305	7.7	6.3	6.3	6.7	5.7	7.0	7.0	6.7	5.0	6.3
PST-5DC24	8.0	6.0	5.7	6.3	5.7	7.0	7.3	7.0	5.0	6.3
PST-5DZM	8.0	5.3	6.7	6.3	5.7	7.0	7.3	7.7	4.3	6.3
PST-5E6	7.7	5.3	6.7	7.0	6.0	6.7	7.0	6.7	4.7	6.3
PST-5MINK	7.7	6.3	6.3	6.3	6.0	6.3	6.7	7.0	5.0	6.3
RC4	7.3	6.3	6.3	6.3	6.3	6.3	6.3	6.7	5.3	6.3
RH1	7.7	6.3	7.7	5.7	5.7	6.3	7.0	7.3	4.7	6.3
SESCR1	7.0	5.7	6.7	6.3	6.0	7.0	7.3	7.0	4.7	6.3
TANGO	8.0	5.7	6.7	6.7	6.3	7.0	6.7	6.3	5.0	6.3
TF445	6.7	6.0	6.7	6.3	6.0	6.7	6.7	6.7	5.0	6.3
DLFPS-321/3702	7.0	6.0	6.3	6.7	6.0	6.7	7.0	6.3	4.3	6.2
RDC	7.7	5.7	6.3	6.7	6.0	7.0	6.7	6.3	4.7	6.2
3B2	8.0	5.3	6.7	6.3	5.0	6.3	7.0	7.3	5.0	6.1
ATF2116	6.7	5.7	6.0	6.7	6.0	6.3	6.3	6.3	4.3	6.0
BY-TF-169	7.7	6.0	6.0	6.3	5.3	6.3	7.3	6.7	4.3	6.0
DLFPS-321/3707	7.7	6.0	5.7	6.7	6.0	6.7	6.7	6.3	4.3	6.0
K18-WB1	7.0	6.0	6.7	5.7	5.0	6.0	7.3	6.7	4.3	6.0
LB1	7.7	6.3	6.7	6.0	5.0	6.3	7.0	6.7	3.7	6.0
NAI-FQZ-17	7.0	5.7	6.7	6.3	6.0	6.7	6.3	6.0	4.7	6.0
PPG-TF 312	7.3	5.7	7.0	6.0	5.7	6.0	6.7	6.0	4.7	6.0
PPG-TF 316	7.0	6.0	6.0	6.0	5.7	6.0	6.3	6.7	5.3	6.0
PST-5THM	7.7	5.3	7.0	6.0	5.3	6.7	6.7	6.7	4.3	6.0
SE5STAR	6.7	6.0	6.7	5.7	5.0	6.3	6.7	6.7	4.7	6.0
SPYDER 2LS (ZRC1)	7.7	6.0	6.7	6.3	5.7	6.3	6.7	7.0	3.7	6.0
TITANIUM G-LS (PPG-TF 255)	7.7	6.0	6.0	6.3	5.3	6.3	6.3	6.7	4.7	6.0
BAR-FA8230	6.0	5.3	6.3	6.7	5.7	6.0	6.0	6.3	4.7	5.9
PPG-TF 249	7.7	6.0	6.3	6.0	5.7	6.0	6.7	6.3	4.3	5.9
PPG-TF 318	7.3	6.3	6.3	6.0	5.3	6.3	6.7	6.0	4.3	5.9
RAPTOR III	7.7	5.7	6.0	6.7	5.7	6.3	6.3	6.3	4.0	5.9
SETFM3	8.3	5.7	6.7	5.7	5.0	6.3	6.7	6.3	4.7	5.9
A-TF31	7.3	5.3	6.0	6.0	5.3	6.0	7.0	6.7	4.3	5.8
AH2	6.0	5.3	6.7	6.0	5.3	6.3	6.3	6.3	4.3	5.8
DLFPS-321/3695	7.7	5.7	6.3	6.0	5.3	6.3	6.7	6.0	4.3	5.8
DLFPS-TF/3552	7.3	5.3	5.7	6.0	5.7	6.3	6.3	6.3	4.7	5.8
ESTRENA	6.7	6.0	6.0	6.0	6.0	6.0	5.7	6.0	4.3	5.8
FIREHAWK SLT	7.3	6.0	5.7	6.3	5.3	6.3	6.3	5.7	4.3	5.8
GRAND PRIX (FC15-01P)	7.7	5.7	6.0	6.0	5.3	6.3	6.3	6.3	4.7	5.8
KENTUCKY-31	7.3	5.7	6.3	6.0	5.7	6.0	5.7	6.3	4.3	5.8
NAI-ST5	7.3	6.3	5.3	6.3	5.7	6.3	6.3	6.0	3.7	5.8

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2020 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/										
NAME	SPRING GREENUP	APR	MAY	JUN	QUALITY RATINGS		SEP	OCT	NOV	MEAN
					JUL	AUG				
NATURALLY GREEN	7.7	6.3	5.3	6.7	5.7	6.3	6.3	5.7	3.7	5.8
NT-3	7.0	6.0	7.0	6.0	5.3	6.0	6.3	6.0	4.0	5.8
PPG-TF 337	7.0	5.7	6.0	6.7	6.0	6.0	5.7	6.0	4.3	5.8
RAD-TF131	7.3	6.0	5.7	6.7	5.7	6.0	6.3	6.0	4.3	5.8
RHF	7.3	6.0	6.0	6.3	5.7	6.3	5.7	5.7	4.3	5.8
SETFM2	7.3	5.7	6.0	5.3	5.7	6.0	6.3	6.3	4.7	5.8
TF456	7.3	5.3	6.3	5.7	5.0	6.3	6.7	6.3	5.0	5.8
TMT1	6.7	6.0	5.7	6.0	5.7	6.3	6.3	5.7	4.3	5.8
5LSS	7.0	5.7	6.0	6.0	5.3	6.0	6.0	5.7	5.0	5.7
BAR 9FE MAS	7.0	5.3	5.3	7.0	6.0	6.7	6.0	5.3	3.7	5.7
DLFPS-321/3679	7.3	6.0	5.7	6.0	5.0	6.0	6.3	5.7	4.7	5.7
DLFPS-321/3693	6.7	5.7	6.0	6.0	5.0	6.0	6.7	5.7	4.3	5.7
ESCALADE	7.0	5.7	6.0	5.7	5.3	5.7	6.3	6.3	4.3	5.7
GO-AOMK	7.0	5.7	6.3	6.3	5.3	6.0	6.0	5.7	4.3	5.7
PPG-TF 313	6.3	6.0	6.0	6.3	6.0	6.3	5.7	5.0	4.0	5.7
RHL2	6.7	6.3	5.7	5.7	5.3	5.7	6.3	6.0	4.7	5.7
TD2	7.3	6.0	6.3	5.3	5.3	6.0	6.0	6.0	4.7	5.7
BGR-TF3	6.7	5.7	5.7	6.0	5.0	6.0	6.0	6.0	4.7	5.6
DLFPS-321/3706	7.0	6.0	5.3	6.0	5.3	6.0	6.0	5.7	4.7	5.6
DLFPS-321/3708	8.0	6.0	4.7	6.7	5.3	6.0	6.3	5.7	4.0	5.6
RS1	5.7	6.0	5.7	5.7	5.0	6.0	6.0	6.0	4.7	5.6
SE53D2	5.7	6.0	5.7	6.0	6.0	6.0	5.7	5.0	4.3	5.6
3N1	7.0	5.3	6.7	5.0	4.7	5.7	6.0	6.3	4.7	5.5
KIZZLE (K18-ROE)	6.0	5.0	6.0	5.3	5.0	5.7	6.0	6.7	4.3	5.5
PARAMOUNT	6.7	5.7	5.7	6.0	5.0	6.0	5.7	5.7	4.0	5.5
PPG-TF 320	7.3	5.7	5.0	6.3	5.3	5.7	5.7	6.0	4.0	5.5
ATF1768	7.0	5.3	6.0	5.7	4.7	5.7	6.0	6.0	3.7	5.4
PALOMAR	7.0	5.3	5.0	6.0	5.7	6.3	6.0	5.0	4.0	5.4
PPG-TF 323	7.0	5.7	6.0	6.0	5.0	5.7	5.7	5.3	4.0	5.4
AST8118LM	6.3	6.0	5.7	5.3	5.0	5.3	5.3	5.3	4.0	5.3
BAR FA 8228	6.3	5.7	6.7	5.7	5.0	5.3	5.0	5.7	3.7	5.3
DLFPS-TF/3550	6.3	6.0	6.3	5.7	4.3	5.3	5.3	5.7	3.3	5.3
K18-RS6	6.0	5.3	5.7	5.0	4.3	5.7	6.7	5.3	4.0	5.3
AH1	6.0	5.7	5.0	5.7	4.7	5.7	5.3	5.0	4.3	5.2
AST8218LM	6.3	5.7	5.7	5.0	4.7	5.3	5.7	5.7	3.7	5.2
DLFPS-321/3694	6.3	5.3	5.0	5.3	5.0	5.7	5.7	5.7	4.0	5.2
DLFPS-TF/3553	6.0	5.7	5.7	5.3	4.7	5.7	5.3	5.3	4.0	5.2
PPG-TF 338	7.3	6.0	5.0	5.7	5.0	5.3	5.7	5.0	4.0	5.2
ZION (BAR TF 134)	6.3	6.0	4.7	5.3	5.3	5.7	5.0	5.0	4.0	5.1
OG-WALK	6.7	5.3	5.7	5.7	5.0	5.3	5.0	5.0	3.7	5.1
PPG-TF 267	6.0	6.7	5.7	5.3	4.7	5.0	5.0	5.0	3.7	5.1
PPG-TF 262	6.0	5.3	4.7	5.7	5.0	5.0	5.3	5.0	3.0	4.9
LSD VALUE	4.3	4.5	3.4	4.5	3.9	2.8	3.8	3.4	3.0	2.4
C.V. (%)	14.4	13.0	16.2	14.6	15.6	12.9	15.5	17.1	19.5	11.9

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 16.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2020 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/									
	SPRING GREENUP	PERCENT SUMMER	GROUND COVER FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PPG-TF 257	2.3	83.3	89.3	7.0	6.3	7.7	7.0	7.3	6.3	6.9
PPG-TF 320	3.0	76.7	83.0	7.3	6.7	6.7	7.0	7.0	6.7	6.9
PPG-TF 337	2.7	80.0	83.0	6.7	7.3	7.0	7.0	7.0	6.3	6.9
5LSS	3.3	76.7	76.3	8.0	6.7	6.7	6.7	6.7	6.0	6.8
ZION (BAR TF 134)	3.3	83.3	80.0	7.0	6.7	7.0	6.3	7.3	6.3	6.8
DRAGSTER	3.0	76.7	80.0	7.3	7.0	7.0	6.7	6.7	6.3	6.8
K18-NSE	3.7	70.0	80.0	7.3	6.7	7.0	7.0	6.7	6.3	6.8
PPG-TF 249	3.0	83.3	89.7	6.7	6.3	7.3	7.0	7.0	6.3	6.8
PPG-TF 306	2.7	86.7	86.3	6.3	6.7	7.3	7.0	7.0	6.7	6.8
RAPTOR GLS (PPG-TF 254)	3.0	70.0	89.7	7.7	6.7	7.0	6.7	6.7	6.3	6.8
AH1	3.3	70.0	79.7	6.7	6.7	7.0	6.7	6.7	6.3	6.7
AH2	2.7	76.7	83.0	7.3	7.0	7.0	6.7	6.3	6.0	6.7
DEGAS (LTP-TF-111)	3.3	73.3	76.7	7.3	7.0	6.7	7.0	6.7	5.3	6.7
DYNAMITE 2LS (PPG-TF 336)	3.3	83.3	83.0	7.3	7.0	7.0	6.7	6.3	5.7	6.7
GO-RH20	3.0	80.0	83.0	7.0	6.7	7.3	6.3	6.7	6.0	6.7
NAI-3N2	3.3	83.3	86.7	7.3	6.3	7.0	6.7	7.0	5.7	6.7
PPG-TF 231	3.0	76.7	83.3	6.7	7.0	7.3	6.7	6.7	5.7	6.7
PPG-TF 244	2.7	80.0	80.0	6.7	6.7	7.0	7.0	7.0	6.0	6.7
SPYDER 2LS (ZRC1)	2.7	80.0	89.3	6.7	6.3	6.7	7.0	7.0	6.7	6.7
3B2	3.0	76.7	70.0	7.0	7.0	7.0	6.7	6.3	5.3	6.6
3N1	3.0	73.3	73.3	6.7	6.3	7.0	6.7	6.7	6.3	6.6
BONFIRE (JS DTT)	2.7	76.7	79.7	6.7	7.0	6.7	6.0	7.0	6.0	6.6
BULLSEYE LTZ	2.7	73.3	76.7	7.0	7.0	6.7	6.3	6.3	6.3	6.6
COL-TF-148	3.3	83.3	76.7	7.0	6.3	7.3	6.7	6.3	5.7	6.6
DLFPS-TF/3550	3.0	83.3	76.3	7.0	6.3	7.0	6.7	6.7	6.0	6.6
DLFPS-TF/3552	2.7	80.0	86.3	6.3	6.7	7.0	6.7	6.7	6.0	6.6
FIREHAWK SLT	3.3	76.7	80.0	6.7	6.3	7.0	6.7	6.7	6.0	6.6
XANADU (JT 268)	3.0	80.0	76.7	7.0	6.3	6.7	6.7	6.7	6.0	6.6
K18-RS6	3.3	73.3	83.3	7.0	6.0	7.0	7.0	6.3	6.0	6.6
PADRE 2	3.0	80.0	80.0	6.7	6.3	7.3	7.0	6.7	5.7	6.6
PPG-TF 267	2.3	86.7	79.7	7.0	6.0	7.3	6.3	6.7	6.0	6.6
PPG-TF 305	2.3	80.0	86.3	6.3	7.0	7.0	6.7	6.7	6.0	6.6
PPG-TF 316	2.7	76.7	86.3	6.7	6.7	7.0	6.7	6.7	6.0	6.6
PST-5DC24	2.3	76.7	86.3	6.3	6.7	7.0	7.0	6.7	5.7	6.6
RDC	2.7	70.0	79.7	7.0	6.3	6.3	6.3	7.0	6.3	6.6
RHF	2.7	73.3	76.7	7.0	6.3	7.0	6.7	6.3	6.0	6.6
RHL2	3.0	76.7	80.0	7.0	6.3	7.0	6.3	6.3	6.3	6.6
SETFM2	3.0	80.0	83.3	6.7	7.0	7.0	6.3	6.7	5.7	6.6
STEALTH (PPG-TF 238)	3.0	83.3	89.3	6.7	6.3	7.0	6.7	6.7	6.0	6.6
TITANIUM G-LS (PPG-TF 255)	3.0	76.7	79.7	7.3	7.0	7.0	6.3	6.3	5.7	6.6
BRAVO 2	3.0	80.0	73.3	6.7	6.7	7.0	6.7	6.3	5.7	6.5
BY-TF-169	3.3	73.3	79.7	6.7	6.7	6.7	6.7	6.7	5.7	6.5
DLFPS-321/3706	2.7	73.3	80.0	7.0	6.7	7.0	6.7	6.0	5.7	6.5
KIZZLE (K18-ROE)	3.0	76.7	76.7	6.7	6.3	7.0	6.7	6.7	5.7	6.5
NAI-TUE	3.3	83.3	76.7	7.0	6.7	7.0	6.3	6.7	5.3	6.5

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2020 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/									
	SPRING GREENUP	PERCENT SUMMER	GROUND FALL	Cover MAY	JUN	JUL	QUALITY AUG	RATINGS SEP	OCT	MEAN
PPG-TF 262	3.3	80.0	86.3	6.3	6.3	7.0	7.0	6.7	5.7	6.5
PPG-TF 313	3.0	76.7	76.7	7.0	6.3	6.3	6.3	6.3	6.7	6.5
PRO GOLD	3.0	80.0	76.7	6.7	6.7	7.3	6.7	6.0	5.7	6.5
PST-5GQ	2.0	80.0	73.3	6.3	6.7	7.0	7.0	6.7	5.3	6.5
SESCR1	3.7	73.3	83.0	6.7	7.0	6.7	6.3	6.3	6.0	6.5
AST8118LM	3.0	76.7	66.7	6.7	6.7	6.7	6.7	6.7	5.3	6.4
AST8218LM	2.7	80.0	80.0	6.7	6.0	7.0	6.7	6.3	5.7	6.4
BANDIT	2.7	83.3	80.0	6.3	7.0	6.7	6.3	6.7	5.3	6.4
BAR-FA8230	2.7	73.3	80.0	6.3	6.0	7.3	6.7	6.7	5.3	6.4
BIRMINGHAM	3.0	76.7	80.0	6.3	6.0	7.0	6.7	7.0	5.3	6.4
BULLSEYE	3.0	76.7	80.0	6.7	6.3	7.0	6.3	6.3	6.0	6.4
DLFPS-321/3699	3.0	76.7	70.0	7.0	6.7	7.0	6.3	6.3	5.0	6.4
DLFPS-321/3701	3.0	76.7	76.7	6.3	6.7	7.0	6.3	6.7	5.7	6.4
DLFPS-321/3705	2.7	73.3	80.0	7.0	6.7	6.7	6.0	6.3	5.7	6.4
DLFPS-321/3708	2.7	76.7	80.0	6.3	7.0	7.0	6.3	6.3	5.7	6.4
K18-WB1	3.0	70.0	80.0	7.0	6.7	6.7	6.3	6.0	6.0	6.4
LIFEGUARD	2.3	80.0	73.3	6.0	6.0	7.0	7.0	7.0	5.7	6.4
NAI-ROS4	3.0	73.3	80.0	6.7	6.3	6.7	6.3	7.0	5.7	6.4
NAI-ST5	2.7	83.3	76.7	7.3	6.7	6.7	6.7	6.0	5.3	6.4
NT-3	3.3	70.0	63.3	6.7	6.7	6.7	6.7	6.3	5.3	6.4
PPG-TF 318	3.3	70.0	73.3	7.0	6.7	6.7	6.0	6.7	5.7	6.4
PPG-TF 323	3.0	70.0	83.0	7.0	7.0	6.3	6.3	6.3	5.7	6.4
PPG-TF 338	3.7	76.7	73.3	7.0	7.0	6.7	6.3	6.3	5.3	6.4
PST-5BYOB	2.7	70.0	70.0	7.0	6.3	7.0	6.3	6.3	5.3	6.4
PST-5E6	2.7	73.3	83.3	6.0	6.0	6.7	7.0	7.0	6.0	6.4
PST-5MCMO	2.7	70.0	80.0	6.7	6.3	6.3	6.3	7.0	6.0	6.4
RAD-TF105	3.0	76.7	80.0	6.7	6.3	7.0	6.3	6.3	6.0	6.4
RH1	3.0	73.3	76.7	7.3	7.0	6.7	6.0	6.0	5.7	6.4
SE5STAR	2.7	73.3	73.3	6.7	6.3	6.7	6.7	6.3	5.7	6.4
SETFM3	2.3	73.3	76.7	6.3	6.3	7.0	6.3	6.3	6.0	6.4
TANGO	3.0	76.7	80.0	6.3	6.3	7.0	6.7	6.7	5.7	6.4
TD2	3.3	73.3	76.3	7.0	6.7	6.7	5.7	6.3	6.0	6.4
TMT1	3.0	73.3	69.7	7.0	7.0	6.3	6.0	6.0	6.0	6.4
ATF2116	2.7	63.3	73.3	6.7	6.3	6.7	6.3	6.3	5.7	6.3
AVENGER III (PPG-TF 308)	3.3	73.3	76.7	7.0	6.7	6.3	6.0	6.3	5.3	6.3
DLFPS-321/3679	3.0	83.3	66.7	6.7	6.0	7.0	6.7	6.3	5.0	6.3
DLFPS-321/3703	3.0	70.0	66.7	7.0	6.7	6.7	6.0	6.0	5.3	6.3
DLFPS-TF/3553	3.0	66.7	73.3	6.7	6.0	6.7	5.7	6.3	6.3	6.3
FAYETTE	3.3	70.0	70.0	7.3	6.3	7.0	5.7	6.0	5.7	6.3
FIRECRACKER G-LS (PPG-TF 315)	3.0	76.3	79.7	6.3	6.7	6.3	6.7	6.3	5.7	6.3
GLX ACED (PST-5DART)	3.0	73.3	73.3	6.7	7.0	6.7	6.3	5.7	5.3	6.3
GRANDE 3	2.7	70.0	76.7	6.3	6.3	7.0	6.3	6.3	5.3	6.3
HEMI	3.3	80.0	70.0	6.7	6.3	7.0	6.3	6.3	5.3	6.3
JT 233	3.0	76.7	73.0	7.0	6.3	7.0	6.0	6.0	5.3	6.3
OKEEFE (LTP-TF-122)	3.0	73.3	73.3	7.0	6.3	6.3	6.3	6.3	5.7	6.3

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2020 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/											
NAME	SPRING GREENUP	PERCENT SUMMER	GROUND COVER FALL	MAY	JUN	JUL	QUALITY RATINGS			OCT	MEAN
							AUG	SEP			
PARAMOUNT	3.7	73.3	70.0	7.0	6.7	6.3	6.0	6.3	5.3	6.3	
PST-5DZM	2.0	73.3	76.7	5.7	6.7	7.0	6.3	6.7	5.7	6.3	
PST-5THM	2.7	70.0	73.3	6.7	6.3	6.7	6.3	6.3	5.7	6.3	
PST-5TRN	2.7	73.3	79.7	6.7	6.3	6.7	6.3	6.7	5.3	6.3	
RC4	2.7	86.3	76.3	6.3	6.7	7.3	6.3	6.0	5.0	6.3	
SE53D2	2.7	73.3	76.7	6.3	6.3	7.0	6.3	6.7	5.3	6.3	
SETF104	2.7	76.7	80.0	6.3	6.3	7.0	6.3	6.3	5.3	6.3	
ATF1768	3.0	63.3	66.7	6.7	6.3	6.7	5.7	6.3	5.7	6.2	
BAR FA 8228	2.7	73.3	63.3	6.7	6.3	6.7	6.3	6.3	4.7	6.2	
COPIOUS TF	2.3	80.0	86.3	6.3	6.3	6.7	6.3	6.0	5.3	6.2	
DLFPS-321/3693	3.3	73.3	66.7	7.0	6.3	6.3	6.0	6.0	5.7	6.2	
DLFPS-321/3695	2.7	70.0	69.7	7.0	6.7	6.0	5.7	6.0	5.7	6.2	
DLFPS-321/3696	2.7	73.3	60.0	6.7	7.3	7.3	5.3	5.7	4.7	6.2	
ESTRENA	3.3	63.3	83.0	6.3	6.0	6.7	6.3	6.3	5.3	6.2	
GO-AOMK	3.0	76.7	80.0	6.0	6.0	6.7	6.7	6.7	5.0	6.2	
JT 517	2.0	70.0	76.3	6.7	6.7	6.0	6.0	6.0	5.7	6.2	
MONUMENT (PST-5SQB)	2.7	73.3	80.0	6.3	6.3	6.7	6.0	6.0	6.0	6.2	
OG-WALK	3.0	70.0	66.7	6.7	6.3	7.0	6.3	6.0	5.0	6.2	
PPG-TF 312	3.0	63.3	79.7	6.7	6.0	6.0	6.0	6.3	6.0	6.2	
RAPTOR III	2.7	80.0	73.3	6.7	6.7	6.7	6.0	6.0	5.3	6.2	
TF456	3.0	66.7	73.3	7.0	6.3	6.0	6.0	6.0	5.7	6.2	
DLFPS-321/3702	3.7	70.0	63.3	7.0	7.0	6.3	5.3	5.7	5.3	6.1	
DLFPS-321/3707	3.0	70.0	70.0	7.0	6.3	6.0	5.7	6.0	5.3	6.1	
GRAND PRIX (FC15-01P)	2.7	63.3	66.7	6.7	6.3	6.3	6.0	6.0	5.0	6.1	
LBF	2.7	73.3	70.0	6.3	6.3	6.7	5.7	6.0	5.7	6.1	
MOONDANCE GLX	3.3	63.3	70.0	6.7	6.0	6.0	6.0	6.0	5.7	6.1	
NATURALLY GREEN	3.3	76.7	76.7	6.3	6.3	6.7	6.0	6.0	5.3	6.1	
PST-5GLBS	3.3	63.3	73.0	7.0	6.3	6.0	6.0	6.0	5.3	6.1	
PST-5MINK	3.7	73.3	70.0	6.7	6.0	6.3	6.0	6.3	5.3	6.1	
RH3	2.7	66.7	80.0	6.7	6.0	6.3	5.7	6.3	5.3	6.1	
RS1	2.3	63.3	70.0	6.3	6.3	6.3	6.0	6.0	5.3	6.1	
TF445	3.0	56.7	76.3	6.3	7.0	6.3	5.7	6.0	5.3	6.1	
A-TF31	2.7	73.3	63.3	6.7	6.3	6.0	6.0	6.0	5.0	6.0	
BAR 9FE MAS	3.0	73.3	76.7	5.7	5.7	6.0	6.0	6.7	6.0	6.0	
ESCALADE	2.7	66.7	76.3	6.0	6.3	6.3	6.0	6.3	5.0	6.0	
NAI-FQZ-17	3.3	70.0	70.0	6.0	6.0	6.7	6.3	5.7	5.0	5.9	
PALOMAR	3.0	63.3	63.3	6.3	6.3	5.7	5.7	6.0	5.3	5.9	
RAD-TF115 (TURBO SS)	2.0	83.3	66.7	6.0	6.3	6.3	5.7	5.7	5.7	5.9	
DLFPS-321/3694	2.7	66.7	63.3	7.0	6.0	6.3	5.0	5.7	5.0	5.8	
KENTUCKY-31	3.7	63.3	73.3	6.0	6.0	6.3	5.7	6.0	5.0	5.8	
RAD-TF131	2.3	83.3	76.7	5.3	5.7	6.3	6.0	6.3	5.3	5.8	
BGR-TF3	3.0	60.0	60.0	6.3	6.7	6.0	5.3	5.0	5.0	5.7	
LSD VALUE	1.4	47.1	99.7	1.0	1.3	1.4	4.2	5.2	4.4	1.4	
C.V. (%)	18.1	13.9	18.5	7.4	7.4	8.0	12.3	12.3	14.1	6.1	

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

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

TABLE 17.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER 1.5" MOWING HEIGHT AT BLACKSBURG, VA 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/							
NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-321/3701	8.7	8.7	8.3	8.3	8.3	8.3	8.4
PPG-TF 320	8.3	8.3	8.0	8.3	8.7	8.7	8.4
3N1	8.7	8.3	8.0	8.3	7.3	7.7	8.1
DYNAMITE 2LS (PPG-TF 336)	8.3	8.3	8.7	7.3	8.0	8.0	8.1
MOONDANCE GLX	8.3	8.0	8.7	8.0	7.3	8.3	8.1
RS1	8.3	8.3	8.3	7.7	8.0	8.0	8.1
PPG-TF 337	8.0	8.0	8.3	7.3	8.3	8.0	8.0
5LSS	8.0	8.0	8.0	7.3	8.3	8.0	7.9
PPG-TF 244	8.0	8.0	8.3	7.7	7.3	8.0	7.9
PPG-TF 306	8.0	8.0	8.3	7.0	8.0	8.0	7.9
ZION (BAR TF 134)	8.0	8.0	8.0	7.3	7.7	7.7	7.8
DLFPS-TF/3552	8.0	8.0	8.0	7.7	7.3	8.0	7.8
NAI-ROS4	8.0	7.7	8.3	6.7	8.3	8.0	7.8
TF445	8.0	7.7	8.0	7.7	7.7	8.0	7.8
BAR-FA8230	8.0	7.7	8.3	7.3	7.3	7.7	7.7
DLFPS-321/3702	7.7	8.3	7.3	7.7	7.7	7.7	7.7
LIFEGUARD	8.0	8.0	7.7	7.7	7.3	7.7	7.7
NT-3	8.0	8.0	8.0	7.7	7.0	7.3	7.7
PPG-TF 312	7.7	7.3	8.0	7.0	8.3	7.7	7.7
TD2	7.7	8.0	7.7	7.7	7.3	7.7	7.7
AVENGER III (PPG-TF 308)	7.7	7.3	7.7	7.0	8.0	7.7	7.6
DLFPS-321/3703	7.7	7.7	8.0	7.0	7.7	7.7	7.6
DLFPS-321/3708	7.7	7.7	7.7	7.7	7.0	7.7	7.6
DLFPS-TF/3550	7.7	8.0	7.3	7.3	7.3	7.7	7.6
PPG-TF 249	8.0	7.7	8.3	7.0	7.0	7.7	7.6
PPG-TF 305	7.7	7.3	8.0	7.0	8.0	7.7	7.6
PST-5E6	8.0	8.0	8.0	7.3	7.0	7.3	7.6
PST-5GQ	7.7	7.7	7.7	7.0	7.7	7.7	7.6
STEALTH (PPG-TF 238)	7.7	7.7	8.0	6.7	7.7	7.7	7.6
DEGAS (LTF-TF-111)	7.7	7.3	8.0	6.7	8.0	7.3	7.5
RHL2	8.0	7.7	8.3	6.7	7.0	7.3	7.5
ATF2116	7.7	7.7	8.0	7.3	6.3	7.3	7.4
DLFPS-321/3695	7.7	7.3	8.3	6.3	7.0	7.7	7.4
JT 517	7.7	7.7	8.0	6.0	7.7	7.7	7.4
PADRE 2	7.7	7.7	7.7	6.7	7.3	7.3	7.4
PPG-TF 231	7.7	7.3	8.7	6.3	7.0	7.7	7.4
PPG-TF 318	7.7	7.7	7.7	7.0	7.0	7.3	7.4
PST-5TRN	7.7	7.3	8.0	6.3	7.7	7.7	7.4
SPYDER 2LS (ZRC1)	7.3	7.7	8.0	7.0	7.0	7.3	7.4
TF456	7.3	7.7	7.7	7.3	7.0	7.3	7.4
TITANIUM G-LS (PPG-TF 255)	7.7	7.7	8.0	6.3	7.3	7.7	7.4
DLFPS-321/3694	7.3	7.3	7.7	6.7	7.3	7.3	7.3
DLFPS-321/3705	7.7	7.3	7.7	6.3	7.7	7.3	7.3
DLFPS-TF/3553	7.3	7.3	7.7	6.7	7.7	7.3	7.3
NATURALLY GREEN	7.3	7.3	7.3	7.0	7.3	7.3	7.3

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER 1.5" MOWING HEIGHT AT BLACKSBURG, VA 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/							
NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PST-5DC24	7.3	7.3	8.0	6.3	7.7	7.3	7.3
PST-5MCMO	7.7	7.3	7.3	7.0	7.3	7.3	7.3
PST-5THM	7.3	7.3	8.0	6.7	7.0	7.3	7.3
DLFPS-321/3706	7.7	7.3	8.0	5.7	7.0	7.3	7.2
PARAMOUNT	7.3	7.3	8.0	6.0	7.3	7.3	7.2
RC4	7.3	7.3	8.0	6.0	7.3	7.3	7.2
RH1	7.3	7.3	8.0	6.3	6.7	7.3	7.2
SESCR1	7.0	7.0	7.7	6.3	7.7	7.3	7.2
ATF1768	7.3	7.0	8.3	6.0	6.7	7.3	7.1
DLFPS-321/3693	7.3	7.3	8.0	6.0	7.0	7.0	7.1
GLX ACED (PST-5DART)	7.3	7.0	7.7	6.3	7.0	7.3	7.1
PST-5BYOB	7.3	7.0	8.0	6.3	6.7	7.0	7.1
AST8118LM	7.3	7.0	7.3	6.7	6.7	7.0	7.0
PPG-TF 323	7.0	7.0	7.0	6.0	7.7	7.3	7.0
SETFM3	7.3	7.0	7.3	6.3	7.0	7.0	7.0
BULLSEYE LTZ	7.0	7.0	7.7	5.7	7.3	7.0	6.9
DLFPS-321/3699	7.0	7.0	7.3	6.3	6.7	7.0	6.9
XANADU (JT 268)	7.0	6.7	7.7	6.0	7.0	7.0	6.9
RH3	7.0	7.0	7.7	6.0	6.7	7.0	6.9
BONFIRE (JS DTT)	7.0	6.7	8.0	5.3	6.7	7.0	6.8
BRAVO 2	7.3	7.0	7.3	5.7	6.7	7.0	6.8
DLFPS-321/3707	7.0	7.0	7.0	6.3	6.7	6.7	6.8
LBF	7.0	7.0	7.3	6.7	6.0	7.0	6.8
MONUMENT (PST-5SQB)	6.7	6.7	6.7	6.7	7.0	7.0	6.8
PPG-TF 262	6.7	6.7	7.3	6.0	7.0	7.0	6.8
PST-5MINK	7.0	7.0	7.0	7.0	6.3	6.7	6.8
AST8218LM	6.7	6.7	7.0	6.3	6.7	6.7	6.7
BGR-TF3	6.7	6.7	7.3	5.7	7.0	6.7	6.7
GRANDE 3	6.7	6.7	7.0	6.3	6.7	6.7	6.7
NAI-ST5	6.7	6.3	8.0	5.3	7.0	7.0	6.7
OG-WALK	7.0	6.7	7.7	6.0	6.0	7.0	6.7
PRO GOLD	7.0	6.7	7.0	6.7	6.3	6.7	6.7
AH2	6.7	6.7	7.3	5.3	7.0	6.7	6.6
BY-TF-169	6.7	6.7	6.7	5.7	7.3	6.7	6.6
COL-TF-148	6.7	6.7	7.3	5.7	6.3	6.7	6.6
GO-RH20	6.0	6.7	7.3	6.3	6.7	6.7	6.6
OKEEFE (LTP-TF-122)	6.7	6.3	7.3	5.3	7.0	6.7	6.6
PPG-TF 316	6.7	6.7	7.3	5.3	6.7	6.7	6.6
RAPTOR GLS (PPG-TF 254)	6.7	6.7	7.3	5.3	6.7	6.7	6.6
RAPTOR III	6.7	6.3	7.7	5.7	6.7	6.7	6.6
SETF104	6.7	6.7	6.3	6.3	7.0	6.7	6.6
3B2	6.7	6.3	7.0	6.0	6.3	6.7	6.5
FAYETTE	6.7	6.7	6.7	5.3	7.0	6.7	6.5
FIRECRACKER G-LS (PPG-TF 315)	7.0	6.7	7.3	5.0	6.7	6.3	6.5
FIREHAWK SLT	6.7	6.3	7.0	5.7	6.7	6.7	6.5

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN UNDER 1.5" MOWING HEIGHT AT BLACKSBURG, VA 1/
2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/							
NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
HEMI	6.7	6.7	7.0	5.7	6.7	6.3	6.5
JT 233	6.3	6.3	7.3	5.7	6.7	6.7	6.5
RHF	6.7	6.7	7.7	4.7	6.7	6.7	6.5
SE53D2	6.7	6.3	8.0	5.0	6.3	6.7	6.5
TMT1	6.7	6.3	6.7	5.7	7.0	6.7	6.5
COPIOUS TF	6.3	6.3	6.7	5.3	7.0	6.7	6.4
DLFPS-321/3679	6.7	6.3	7.0	5.3	6.7	6.7	6.4
DRAGSTER	6.7	6.3	7.3	6.0	6.0	6.3	6.4
ESCALADE	6.7	6.7	6.7	5.7	6.7	6.3	6.4
GO-AOMK	6.7	6.7	6.7	6.0	6.3	6.3	6.4
GRAND PRIX (FC15-01P)	6.3	6.3	6.0	6.0	7.0	6.7	6.4
K18-RS6	6.3	6.3	7.3	4.7	7.0	6.7	6.4
PALOMAR	6.7	6.7	7.3	5.7	5.7	6.3	6.4
RAD-TF131	6.7	6.7	6.7	5.3	6.7	6.7	6.4
SETFM2	6.7	6.7	6.3	6.7	6.0	6.3	6.4
BAR 9FE MAS	6.7	6.0	7.3	5.0	6.7	6.3	6.3
BAR FA 8228	6.7	6.7	7.7	5.3	5.3	6.3	6.3
BULLSEYE	6.7	6.0	7.3	5.3	6.0	6.3	6.3
NAI-TUE	6.7	6.3	7.3	4.7	6.3	6.3	6.3
PPG-TF 257	6.3	6.3	6.7	6.0	6.0	6.3	6.3
PST-5GLBS	6.3	6.3	6.7	5.3	6.7	6.7	6.3
DLFPS-321/3696	6.3	6.3	6.7	6.0	6.0	6.0	6.2
K18-NSE	6.3	6.0	7.0	4.7	6.7	6.3	6.2
NAI-3N2	6.3	6.3	6.7	5.7	6.0	6.3	6.2
NAI-FQZ-17	6.3	6.0	7.3	5.0	6.0	6.3	6.2
PST-5DZM	6.3	6.3	6.3	6.0	6.0	6.0	6.2
RDC	6.0	5.7	6.7	4.7	7.7	6.7	6.2
SE5STAR	6.3	6.0	7.3	5.0	6.3	6.3	6.2
A-TF31	6.7	6.0	7.0	5.3	5.7	5.7	6.1
BIRMINGHAM	6.0	6.0	6.7	5.3	6.0	6.3	6.1
K18-WB1	6.3	6.3	6.7	5.0	6.0	6.3	6.1
PPG-TF 313	6.0	6.0	6.7	4.7	6.7	6.3	6.1
PPG-TF 338	6.3	6.3	6.3	4.7	6.7	6.0	6.1
TANGO	6.3	6.3	7.0	5.0	5.7	6.0	6.1
BANDIT	6.3	5.7	7.0	5.3	5.7	6.0	6.0
KIZZLE (K18-ROE)	6.0	6.0	6.7	5.0	6.3	6.0	6.0
PPG-TF 267	6.3	5.7	7.3	4.7	5.7	6.3	6.0
RAD-TF105	6.0	6.0	6.3	5.0	6.0	6.0	5.9
RAD-TF115 (TURBO SS)	6.3	6.0	6.7	5.0	5.7	6.0	5.9
AH1	6.3	5.7	6.3	5.3	5.3	5.7	5.8
ESTRENA	5.7	5.3	6.3	4.7	5.7	5.7	5.6
KENTUCKY-31	4.3	4.7	4.3	4.3	4.7	4.7	4.5
LSD VALUE	6.5	7.4	5.5	7.4	5.9	6.0	6.0
C.V. (%)	17.9	19.6	15.6	26.2	18.3	17.0	17.3

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 18.

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/																	
NAME	CT1	DE1	GA1	KS1	MI1	MO1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	MEAN
RAD-TF115 (TURBO SS)	6.7	7.3	7.3	3.7	7.7	7.0	6.7	6.0	7.0	8.0	6.0	8.0	8.3	5.3	4.0	7.7	6.7
RAD-TF131	6.7	7.3	7.0	4.0	7.0	7.0	6.0	6.3	7.0	7.3	6.0	8.0	8.3	6.3	4.3	7.7	6.6
XANADU (JT 268)	6.0	7.3	7.7	5.0	7.3	8.0	6.7	6.7	7.0	6.7	6.0	7.3	7.3	6.3	3.3	6.3	6.6
TITANIUM G-LS (PPG-TF 255)	6.3	7.7	7.3	4.3	7.0	7.7	6.0	7.0	6.7	7.3	6.3	6.7	7.3	6.0	4.0	7.0	6.5
DLFPS-321/3708	6.3	7.7	7.0	4.0	7.0	6.3	7.0	6.3	7.0	7.7	6.3	6.3	7.7	6.0	4.0	7.7	6.5
SETFM3	6.3	7.3	7.0	3.7	7.0	7.3	6.0	7.0	7.0	7.3	6.3	7.0	7.3	6.7	4.0	7.0	6.5
SETTF104	6.3	7.7	7.0	4.7	7.0	6.7	6.7	6.3	6.7	6.3	6.0	7.0	7.0	7.3	3.7	6.7	6.4
DLFPS-321/3699	7.0	7.7	7.0	4.3	7.0	7.0	6.7	6.7	6.7	6.7	6.3	7.0	7.3	6.0	4.3	5.3	6.4
JT 233	6.0	7.3	7.3	4.0	7.0	7.3	6.0	6.7	6.7	7.0	6.0	7.0	7.0	6.7	4.0	6.7	6.4
PPG-TF 305	6.0	6.7	7.3	4.3	7.0	7.0	6.7	6.7	7.0	6.7	6.3	7.0	7.3	6.3	4.3	6.0	6.4
AST8218LM	6.0	7.3	7.3	3.3	7.0	6.7	6.0	6.3	7.0	7.7	7.0	7.7	6.7	6.3	3.3	6.7	6.4
PPG-TF 338	6.0	7.0	7.3	4.3	7.0	7.0	6.0	6.7	7.0	6.3	6.0	6.7	7.3	6.7	4.3	6.7	6.4
RH1	6.3	7.3	7.0	5.0	7.0	6.3	6.3	7.0	6.7	6.3	6.0	6.7	7.0	7.0	4.3	6.0	6.4
PPG-TF 267	6.0	7.0	7.3	4.0	7.0	7.7	6.0	6.0	7.0	6.7	6.0	7.7	7.7	7.0	3.3	5.7	6.4
PPG-TF 323	6.0	7.7	7.3	4.3	7.3	6.0	6.7	7.3	6.3	7.0	6.0	7.7	6.0	6.0	3.7	6.7	6.4
DLFPS-321/3702	6.0	7.7	7.3	4.0	7.3	6.7	6.3	6.3	6.3	6.7	6.0	7.0	8.3	6.3	3.0	6.7	6.4
RAD-TF105	6.7	7.3	6.7	4.7	7.0	6.3	6.0	6.3	7.0	6.7	6.0	8.0	7.0	6.3	3.3	6.7	6.4
COPIOUS TF	6.0	7.3	7.0	4.0	7.0	7.0	6.0	6.3	6.7	7.7	6.3	7.3	6.3	6.7	3.3	7.0	6.4
PPG-TF 306	6.3	7.7	6.7	4.3	7.3	7.3	6.7	6.3	6.7	7.0	6.0	7.7	6.0	6.0	4.0	5.7	6.4
GO-AOMK	6.0	7.0	7.7	3.7	7.3	6.3	6.0	6.7	7.0	7.3	6.3	6.7	7.3	6.0	3.7	6.7	6.4
NAI-TUE	6.3	7.0	7.7	4.0	7.0	6.7	6.0	7.3	7.0	7.0	6.0	6.7	7.3	6.3	3.7	5.7	6.4
PST-5DC24	6.0	6.7	7.3	4.7	7.0	7.3	6.3	6.3	7.0	7.0	6.0	6.0	7.0	6.7	3.7	6.3	6.3
LBF	6.0	7.0	7.0	3.3	6.7	6.3	5.7	6.7	6.7	7.7	6.0	7.3	7.0	6.0	4.7	7.3	6.3
PPG-TF 316	6.0	7.0	7.3	4.3	7.0	7.0	6.7	7.0	6.7	6.0	6.0	7.3	7.3	6.3	3.7	5.7	6.3
AST8118LM	6.0	7.0	7.3	3.0	7.0	6.0	6.0	6.3	6.7	8.3	6.7	6.7	7.7	6.3	3.7	6.3	6.3
DLFPS-321/3701	6.3	7.7	7.3	4.7	7.0	6.7	6.7	7.0	7.0	6.0	6.0	7.0	7.0	6.0	2.7	6.0	6.3
NATURALLY GREEN	6.0	6.7	6.7	4.3	7.0	5.3	6.0	7.0	6.7	8.0	6.0	6.7	7.0	6.7	4.3	6.7	6.3
DLFPS-321/3703	6.3	7.0	7.0	3.7	7.0	6.7	6.3	6.7	7.0	6.7	6.3	7.0	7.3	6.3	3.7	6.0	6.3
DLFPS-TF/3550	6.0	7.0	7.3	4.3	7.0	6.0	6.7	6.7	7.0	6.0	6.0	7.0	7.0	6.3	4.3	6.3	6.3
DLFPS-321/3696	6.0	7.0	7.3	5.3	7.0	6.3	6.3	6.3	6.7	7.0	6.0	6.7	7.0	6.3	3.7	5.7	6.3
AVENGER III (PPG-TF 308)	6.0	8.0	7.3	4.0	7.0	6.7	6.3	6.7	6.7	6.0	6.0	6.3	7.7	6.7	3.3	6.0	6.3
SETFM2	6.0	7.7	7.0	3.3	7.0	5.7	6.0	6.0	6.7	7.7	6.3	6.7	7.3	6.0	4.0	7.3	6.3
A-TF31	6.3	7.3	7.3	3.3	6.7	6.0	6.0	6.3	6.3	8.0	6.3	6.3	7.3	7.0	3.0	6.7	6.3
DLFPS-321/3707	6.0	7.3	6.7	4.0	7.0	7.7	6.3	6.0	6.7	5.3	6.0	7.3	7.7	6.0	4.3	6.0	6.3
GO-RH20	6.0	7.0	6.3	4.3	7.0	7.0	6.0	7.0	7.0	6.3	6.0	7.3	6.7	6.3	4.3	5.7	6.3
NAI-ST5	6.0	7.3	7.3	4.0	7.0	6.7	6.7	7.3	7.0	5.7	6.0	6.7	6.3	6.7	3.3	6.3	6.3
JT 517	6.0	7.7	7.0	3.3	7.3	6.3	6.0	6.7	6.7	6.7	6.3	7.0	6.7	6.0	4.0	6.3	6.3
3N1	6.0	7.3	7.0	4.3	7.0	6.0	6.0	7.0	6.7	7.3	6.0	6.7	6.7	6.3	3.7	5.7	6.2
TMT1	6.7	7.3	7.3	4.7	7.0	7.0	6.0	6.3	7.0	5.7	6.0	6.7	6.7	6.3	3.0	6.0	6.2
PPG-TF 249	6.0	7.0	7.3	4.3	7.3	6.3	6.3	6.0	7.0	6.3	6.0	7.0	7.3	6.3	3.3	5.7	6.2
ATF2116	6.0	7.0	6.7	4.5	7.0	5.3	6.3	6.7	6.7	7.7	6.3	6.0	6.3	6.3	4.0	6.7	6.2
BGR-TF3	6.0	7.3	7.3	4.0	7.0	5.3	6.0	6.3	6.3	7.3	6.0	6.7	7.0	5.7	4.0	7.0	6.2
BONFIRE (JS DTT)	6.3	7.0	7.0	4.3	7.3	6.3	6.7	6.7	7.0	5.3	6.0	6.7	7.0	6.0	3.7	6.0	6.2
DLFPS-TF/3553	6.0	7.3	7.0	4.3	6.7	6.3	6.3	6.3	6.7	6.3	6.0	7.0	6.7	6.3	4.0	6.0	6.2
NAI-FQZ-17	6.0	7.0	7.0	4.7	7.0	5.7	6.0	6.0	7.0	6.7	6.3	6.7	6.7	6.3	3.7	6.7	6.2
NAI-ROS4	6.0	7.3	6.7	4.7	7.0	5.7	6.3	6.3	6.7	5.3	6.3	7.0	7.3	6.7	4.3	5.7	6.2

TABLE 18.
(CONT'D)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/																	
NAME	CT1	DE1	GA1	KS1	MI1	MO1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	MEAN
BANDIT	6.0	7.7	7.0	3.0	7.3	6.0	5.7	6.7	7.0	6.7	6.3	7.3	6.7	6.0	3.3	6.7	6.2
BIRMINGHAM	6.3	7.0	5.7	4.0	7.0	6.7	6.0	7.0	7.0	7.3	6.0	6.3	5.7	6.3	4.0	7.0	6.2
NAI-3N2	6.0	7.3	6.7	3.7	7.0	7.0	6.0	5.7	7.0	6.3	6.0	7.3	7.0	6.3	4.3	5.7	6.2
PPG-TF 262	6.0	7.3	7.0	4.3	7.0	6.3	6.7	6.0	6.3	6.7	6.0	7.0	6.7	6.0	3.7	6.3	6.2
RAPTOR III	6.3	7.0	7.0	4.0	7.0	7.7	6.0	6.3	7.0	5.0	6.0	6.3	7.0	6.7	4.0	5.7	6.2
DLFPS-321/3694	6.3	7.3	7.7	3.3	7.0	6.0	6.0	6.0	7.0	6.0	6.0	6.7	7.3	6.3	3.7	6.3	6.2
TD2	6.0	7.3	7.3	4.3	7.0	5.7	6.7	6.7	7.0	4.7	6.0	6.3	7.3	6.3	4.3	6.0	6.2
AH2	6.3	7.3	6.7	4.7	7.3	6.7	6.3	6.0	7.0	5.0	6.0	6.7	6.7	6.3	3.7	6.0	6.2
PST-5MINK	6.0	6.7	7.7	4.0	7.0	6.7	6.0	6.0	7.0	6.3	6.0	6.7	7.0	6.7	3.7	5.3	6.2
BAR 9FE MAS	6.0	7.3	6.7	3.0	6.7	6.7	6.0	7.3	6.7	7.0	6.0	6.7	7.3	6.7	3.3	5.3	6.2
FIRECRACKER G-LS (PPG-TF 315)	6.3	7.0	7.0	3.7	7.0	7.0	6.3	6.0	6.7	6.3	6.0	6.3	6.7	6.3	4.0	6.0	6.2
PADRE 2	6.0	7.7	6.7	4.0	7.0	5.7	6.3	5.7	7.0	6.7	6.0	6.3	6.7	7.3	3.0	6.7	6.2
PPG-TF 244	6.3	7.3	7.0	3.7	7.0	6.0	6.7	6.3	7.0	6.3	6.0	7.0	6.3	6.0	3.7	6.0	6.2
PPG-TF 318	6.0	7.3	6.7	4.7	7.0	6.0	6.3	6.3	7.0	5.3	6.0	6.7	6.3	6.7	3.3	6.7	6.1
PPG-TF 231	6.0	7.3	6.7	4.0	7.0	6.0	6.0	6.0	6.7	7.3	6.0	7.0	7.0	5.7	4.0	5.7	6.1
PPG-TF 257	6.0	7.0	6.7	4.7	7.0	7.0	6.0	6.7	6.0	6.3	6.0	7.0	6.3	6.0	4.0	5.7	6.1
STEALTH (PPG-TF 238)	6.0	7.3	7.0	4.3	7.0	6.7	6.3	6.3	7.0	5.3	6.0	7.0	6.7	6.3	3.3	5.7	6.1
DLFPS-321/3679	6.0	7.0	6.3	4.7	7.0	5.3	6.3	6.0	7.0	7.0	6.3	7.0	6.3	6.0	4.0	6.0	6.1
NT-3	6.0	7.0	6.7	4.3	7.0	5.7	6.7	6.7	6.7	5.7	6.0	6.7	6.7	6.7	4.3	5.7	6.1
AH1	6.3	7.7	7.3	4.7	7.0	5.3	6.7	6.0	6.7	6.0	6.0	6.0	7.3	6.3	3.0	6.0	6.1
GRANDE 3	6.0	7.0	6.7	4.7	7.0	6.0	6.0	6.7	6.0	5.7	6.0	6.7	7.0	7.0	3.7	6.0	6.1
FIREHAWK SLT	6.0	7.3	6.3	4.7	7.0	6.3	6.0	6.0	6.3	6.7	6.0	6.7	6.3	6.3	3.7	6.3	6.1
3B2	6.0	7.0	7.0	4.3	7.0	5.7	6.0	6.3	7.0	6.3	6.0	7.0	6.0	7.0	3.3	5.7	6.1
RAPTOR LS (PPG-TF 336)	6.0	7.0	7.3	5.0	7.0	5.0	6.0	6.0	6.7	6.0	6.0	6.3	6.7	6.7	4.0	6.0	6.1
K18-WB1	6.0	7.0	6.7	4.7	7.0	5.3	6.3	6.0	6.7	5.0	6.0	6.7	7.0	7.0	4.0	6.0	6.1
RC4	6.7	7.3	7.0	4.3	7.0	6.3	6.3	6.0	7.0	4.3	6.0	6.3	6.3	6.7	3.7	6.0	6.1
FAYETTE	6.0	7.0	6.3	4.3	7.0	6.3	6.3	6.0	6.7	6.7	6.0	7.0	6.3	6.0	3.7	5.7	6.1
RHL2	6.0	7.0	6.7	4.7	7.0	6.7	6.0	5.7	7.0	5.7	6.0	7.0	6.7	6.0	3.3	6.0	6.1
DLFPS-321/3693	6.3	7.0	6.3	4.7	7.0	6.3	6.0	6.0	6.7	5.3	6.0	6.0	7.0	6.0	4.0	6.3	6.1
DLFPS-321/3705	6.3	6.7	7.3	4.0	7.0	6.7	6.0	6.7	7.0	4.0	5.7	7.0	6.7	6.3	3.7	5.7	6.0
PPG-TF 337	6.3	7.0	7.0	4.7	7.3	4.7	6.0	6.3	6.7	6.0	6.0	6.7	7.7	5.0	4.3	5.0	6.0
DEGAS (LTP-TF-111)	6.0	7.0	6.7	4.7	7.0	5.3	6.7	6.3	6.7	5.3	6.0	7.0	6.3	6.0	4.3	5.3	6.0
TF445	6.0	8.0	6.7	4.3	7.0	6.0	6.3	6.7	6.3	6.0	6.0	6.0	6.3	6.0	3.0	5.7	6.0
TF456	6.0	7.0	6.3	3.3	7.0	6.3	6.7	6.3	7.0	5.3	6.0	7.3	6.0	6.0	4.0	5.7	6.0
PARAMOUNT	6.0	6.7	6.3	4.3	7.0	6.3	6.0	5.7	7.0	5.3	6.0	7.0	6.7	6.7	3.3	6.0	6.0
PST-5DZM	6.0	7.0	7.3	4.0	7.0	6.0	6.0	6.3	6.7	5.7	6.0	6.7	6.3	6.0	3.3	6.0	6.0
BULLSEYE LTZ	6.3	6.7	7.3	4.0	7.0	6.0	6.0	6.0	6.7	5.3	6.3	7.0	6.7	6.3	3.3	5.3	6.0
SESCRI	6.0	7.0	7.0	4.0	7.0	5.7	6.3	6.3	7.0	5.0	6.0	6.7	6.3	6.7	3.7	5.3	6.0
ATF1768	6.0	7.3	6.3	4.0	7.0	6.0	6.0	6.3	6.7	5.7	6.3	6.7	5.7	6.3	4.0	5.7	6.0
DLFPS-TF/3552	6.0	7.3	6.7	4.3	7.0	5.7	6.0	6.3	6.7	5.3	6.0	6.3	6.3	6.0	3.3	6.7	6.0
RS1	6.0	7.3	7.3	4.7	7.0	5.7	6.0	6.3	6.3	5.3	6.0	7.0	6.3	6.0	3.0	5.7	6.0
ZION (BAR TF 134)	6.0	6.7	7.0	5.0	7.3	5.7	6.0	6.3	6.7	4.7	6.0	7.0	6.3	6.3	3.3	5.7	6.0
DLFPS-321/3695	6.0	7.3	7.3	4.7	7.0	5.0	6.0	6.0	6.7	5.3	6.0	6.7	6.7	6.0	3.3	5.7	6.0
TANGO	6.0	6.7	6.3	4.0	7.0	5.7	6.0	7.3	6.3	6.3	6.0	7.0	5.3	6.3	3.3	6.0	6.0
BRAVO 2	6.0	6.7	6.0	4.0	7.0	5.3	6.0	6.7	6.3	6.3	6.3	6.7	6.0	6.3	3.3	6.3	6.0
COL-TF-148	6.0	7.0	7.3	4.0	7.0	7.3	6.0	6.0	7.0	4.0	6.0	7.0	6.7	5.7	3.3	5.0	6.0
BY-TF-169	6.0	6.7	7.0	4.3	7.0	6.0	6.3	6.0	7.0	4.3	6.0	6.3	7.0	6.7	3.7	4.7	5.9

TABLE 18.
(CONT'D)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/																	
NAME	CT1	DE1	GA1	KS1	MI1	MO1	MS1	NC1	NE1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	MEAN
K18-RS6	6.3	6.7	7.0	5.3	7.0	7.0	6.3	6.3	7.0	4.0	5.7	6.3	5.7	6.0	3.7	4.7	5.9
BAR-FA8230	6.0	7.0	5.7	4.7	7.0	5.3	6.3	6.0	6.7	6.7	6.0	7.0	6.0	6.0	3.3	5.3	5.9
GLX ACED (PST-5DART)	6.0	7.0	6.3	5.3	6.7	6.0	6.3	7.0	6.3	4.0	6.0	7.0	6.0	6.0	3.7	5.3	5.9
BULLSEYE	6.0	7.0	6.0	4.0	7.0	5.7	6.0	6.0	7.0	6.7	6.0	7.3	5.0	6.0	4.0	5.3	5.9
PST-5GQ	6.0	7.0	6.7	4.7	7.0	5.7	6.0	6.0	6.7	5.0	6.0	7.0	5.3	6.0	4.0	6.0	5.9
DYNAMITE G-LS (PPG-TF 254)	6.0	7.3	6.3	4.3	7.0	5.3	6.3	6.3	6.7	4.7	6.0	6.0	6.7	6.3	3.7	5.7	5.9
HEMI	6.0	6.7	6.0	4.0	7.0	5.7	6.0	6.3	6.7	6.7	6.0	6.7	6.3	5.7	3.0	6.0	5.9
LIFEGUARD	6.0	7.0	6.7	4.3	7.0	5.0	6.0	6.0	7.0	6.0	6.0	6.3	5.7	6.3	3.7	5.7	5.9
OKEEFE (LTP-TF-122)	6.0	7.7	6.7	3.7	7.0	7.0	6.3	5.0	7.0	5.0	5.7	6.7	6.3	6.0	3.0	5.7	5.9
SPYDER 2LS (ZRC1)	6.0	7.0	6.7	4.7	7.3	6.0	6.3	6.0	6.7	4.0	6.0	7.0	6.3	5.7	3.7	5.3	5.9
PPG-TF 320	6.0	7.0	6.7	4.7	7.0	7.0	6.0	6.0	7.0	5.7	6.0	6.3	5.7	6.0	2.3	5.3	5.9
SE5STAR	6.0	6.7	6.3	4.3	7.0	6.3	6.0	6.3	6.7	7.0	6.0	6.3	5.0	6.0	3.3	5.3	5.9
GRAND PRIX (FC15-01P)	6.0	7.0	6.0	4.0	7.0	6.0	6.0	6.0	6.3	7.0	6.0	6.3	5.3	6.0	3.3	6.0	5.9
SE53D2	6.0	6.3	6.7	4.3	7.0	6.0	6.3	6.3	6.3	6.7	6.0	6.7	5.0	6.0	3.3	5.0	5.9
KIZZLE (K18-ROE)	6.0	7.3	6.0	4.3	7.0	6.3	6.0	6.0	6.0	4.7	6.0	6.3	6.0	6.3	3.7	5.7	5.9
BAR FA 8228	6.0	6.7	6.0	4.3	6.7	6.3	6.3	5.3	6.7	7.3	6.0	5.7	4.7	6.3	3.3	5.7	5.8
PPG-TF 313	6.0	7.0	6.7	4.3	7.0	5.0	6.3	5.3	7.0	4.3	6.0	7.0	7.7	5.7	3.0	5.0	5.8
PST-5BYOB	6.0	7.0	7.0	4.7	7.0	4.7	6.0	6.7	6.3	6.3	6.0	5.7	6.0	6.0	3.0	5.0	5.8
RH3	6.0	6.7	6.7	5.3	7.0	5.0	6.0	6.3	6.7	4.0	6.0	6.0	6.7	6.3	3.7	5.0	5.8
MONUMENT (PST-5SQB)	6.0	6.7	6.3	5.0	7.0	5.3	6.0	6.3	6.7	5.0	6.0	6.3	5.7	6.3	3.3	5.3	5.8
ESTRENA	6.0	6.7	5.3	4.7	7.3	6.0	6.0	5.7	7.0	5.3	5.7	6.3	6.3	6.0	3.7	5.0	5.8
PST-5MCMO	6.3	7.0	6.7	4.7	7.0	5.7	6.0	6.3	5.7	4.0	6.0	7.0	5.3	6.3	3.3	5.7	5.8
PST-5THM	6.0	7.3	6.7	4.0	7.0	5.0	6.0	6.7	6.3	4.7	6.0	6.3	5.7	6.3	3.3	5.7	5.8
RDC	6.3	7.3	6.7	4.3	7.0	5.0	6.0	5.7	7.0	3.3	5.7	6.3	6.3	7.0	3.7	5.0	5.8
ESCALADE	6.0	6.7	6.0	3.7	7.0	5.3	6.0	6.0	6.7	6.3	6.0	7.0	5.0	6.0	2.7	6.0	5.8
PST-5TRN	6.0	6.7	6.3	4.0	6.7	5.3	6.0	6.3	6.3	5.3	6.0	6.7	5.7	6.0	3.3	5.7	5.8
DLFPS-321/3706	6.0	7.0	6.7	4.7	7.0	5.0	6.0	5.7	6.7	3.3	5.7	6.7	7.0	6.0	3.7	5.3	5.8
DRAGSTER	6.0	7.0	6.7	3.7	7.3	5.0	6.0	6.0	7.0	4.3	6.0	6.3	6.3	6.0	3.3	5.3	5.8
K18-NSE	6.3	6.3	6.7	5.7	7.3	5.0	6.3	4.7	6.3	4.3	5.3	6.7	6.7	6.3	3.3	4.3	5.7
MOONDANCE GLX	6.0	6.7	6.3	4.0	6.7	5.7	5.7	6.0	6.7	4.7	6.0	6.3	5.3	6.0	4.0	5.7	5.7
RHF	6.0	7.0	6.0	4.3	7.0	5.3	6.0	6.0	6.7	4.7	6.0	6.3	6.3	6.3	2.7	5.0	5.7
OG-WALK	6.0	6.7	5.7	3.7	6.7	5.0	5.7	6.0	7.0	7.3	6.0	6.3	5.3	6.0	2.3	5.7	5.7
PPG-TF 312	6.0	7.0	6.7	4.3	7.0	5.3	6.0	5.3	6.7	3.0	5.7	6.3	7.3	6.7	3.0	5.0	5.7
PST-5GLBS	6.0	6.3	6.7	5.0	7.0	5.7	6.0	5.7	6.7	4.7	6.0	6.0	5.3	6.3	3.3	4.7	5.7
PRO GOLD	6.0	6.7	6.7	4.3	6.7	5.7	5.7	5.3	6.7	4.7	5.7	6.0	5.0	6.7	3.7	5.3	5.7
PALOMAR	6.0	6.0	6.0	4.3	7.0	5.7	5.7	5.7	7.0	7.0	6.0	6.3	5.3	5.7	1.7	5.3	5.7
PST-5E6	5.7	6.7	6.3	5.0	6.7	4.7	6.0	5.7	6.7	4.0	5.7	6.3	5.0	6.3	3.3	5.7	5.6
5LSS	6.0	6.7	7.0	4.0	7.3	5.7	6.0	5.3	6.0	2.7	5.3	6.3	6.0	5.3	4.3	5.0	5.6
KENTUCKY-31	4.0	5.0	4.0	5.0	5.0	2.7	4.0	3.7	5.0	1.0	4.0	5.0	1.0	6.3	2.7	3.0	3.8
LSD VALUE	0.5	0.9	1.0	1.2	0.5	1.2	0.6	1.2	0.7	1.5	0.5	1.1	1.2	1.0	1.2	1.0	0.2
C.V. (%)	4.7	7.7	9.1	17.3	4.1	12.2	6.2	12.3	6.5	15.4	4.9	10.5	11.4	9.9	20.5	10.9	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 19.

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	IA1	IN1	NJ1	ON1	OR1	PA2	UT1	MEAN
KENTUCKY-31	6.0	6.0	8.7	6.3	5.0	5.3	4.7	6.0
BIRMINGHAM	8.0	6.7	6.3	3.7	4.3	7.0	5.0	5.9
PPG-TF 231	8.0	4.3	7.0	4.7	4.3	6.7	5.0	5.7
KIZZLE (K18-ROE)	7.3	6.7	7.7	4.3	3.0	6.0	4.3	5.6
PPG-TF 244	7.0	6.0	6.7	4.7	3.3	7.0	4.7	5.6
FAYETTE	7.3	5.7	7.7	4.7	4.3	5.3	4.0	5.6
TF456	7.3	4.3	7.3	4.3	4.0	6.3	4.7	5.5
GRANDE 3	7.7	6.3	5.7	5.0	3.3	5.7	4.3	5.4
ESCALADE	7.0	5.3	6.7	5.7	4.0	5.0	4.0	5.4
PADRE 2	7.0	5.3	6.7	4.0	5.0	5.3	4.3	5.4
DLFPS-321/3695	7.3	5.3	6.0	4.0	3.0	6.3	5.3	5.3
GO-RH20	7.0	4.7	6.0	4.3	4.3	6.3	4.7	5.3
SPYDER 2LS (ZRC1)	7.0	3.7	6.3	4.7	3.3	7.7	4.7	5.3
DLFPS-321/3703	7.3	6.0	6.0	4.7	3.7	5.0	4.3	5.3
MONUMENT (PST-5SQB)	7.0	4.3	6.7	5.0	3.7	6.0	4.3	5.3
3N1	7.3	5.0	5.3	4.3	4.0	6.7	4.3	5.3
K18-WB1	7.0	5.3	7.7	5.0	2.7	5.3	4.0	5.3
PARAMOUNT	7.7	4.7	6.0	5.0	3.7	4.3	5.7	5.3
PPG-TF 338	7.3	5.7	5.0	3.7	4.0	6.7	4.7	5.3
SESCR1	6.7	4.7	5.3	4.7	3.7	7.3	4.7	5.3
K18-NSE	7.0	5.3	7.0	4.0	4.0	5.0	4.7	5.3
DLFPS-321/3694	7.3	5.7	6.7	5.0	3.0	4.7	4.3	5.2
PST-5MCMO	7.0	5.0	5.7	4.7	4.0	6.0	4.3	5.2
RAPTOR LS (PPG-TF 336)	7.3	4.7	6.7	4.0	4.3	5.3	4.3	5.2
AVENGER III (PPG-TF 308)	7.3	4.3	6.0	4.7	5.0	4.3	5.0	5.2
BULLSEYE	7.7	5.3	5.7	4.7	4.0	4.7	4.7	5.2
DLFPS-321/3707	7.0	5.3	6.0	4.0	4.0	6.0	4.3	5.2
PRO GOLD	7.0	5.7	5.7	4.7	4.0	5.0	4.7	5.2
RH1	7.0	6.3	7.0	4.0	3.0	5.3	4.0	5.2
BANDIT	7.7	5.0	5.7	3.7	4.0	5.7	4.7	5.2
PPG-TF 267	8.0	5.0	5.0	4.0	3.7	6.7	4.0	5.2
RDC	7.0	4.7	7.3	4.3	3.7	4.7	4.7	5.2
TITANIUM G-LS (PPG-TF 255)	8.0	5.7	4.3	4.3	3.0	6.3	4.7	5.2
DLFPS-321/3706	6.7	5.0	5.3	4.3	3.3	6.7	4.7	5.1
DRAGSTER	6.7	4.7	6.3	3.7	4.3	6.3	3.7	5.1
GRAND PRIX (FC15-01P)	7.7	5.7	4.7	3.7	3.3	6.0	4.7	5.1
OG-WALK	7.7	4.7	4.0	5.3	4.3	5.3	4.3	5.1
PPG-TF 262	7.3	3.7	6.3	4.0	4.0	6.0	4.3	5.1
LBF	8.0	5.7	4.7	4.7	3.7	4.7	4.0	5.0
3B2	7.0	4.0	7.0	5.0	4.0	4.0	4.3	5.0
AH1	7.0	3.7	5.3	5.3	3.7	6.0	4.3	5.0
BGR-TF3	8.0	5.7	6.7	3.3	3.7	4.0	4.0	5.0
DLFPS-321/3679	8.0	5.7	5.3	3.3	4.0	4.7	4.3	5.0
DLFPS-321/3693	7.7	4.0	6.7	5.0	2.7	4.7	4.7	5.0
DLFPS-321/3699	8.0	5.0	4.7	3.3	3.3	6.7	4.3	5.0
ESTRENA	7.0	4.0	7.0	5.0	2.7	5.0	4.7	5.0

TABLE 19.
(CONT'D)

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	IA1	IN1	NJ1	ON1	OR1	PA2	UT1	MEAN
JT 517	8.0	5.7	4.7	4.0	3.0	6.0	4.0	5.0
PPG-TF 249	7.3	4.3	4.7	4.0	4.0	6.7	4.3	5.0
PST-5GLBS	7.0	4.7	6.3	3.7	3.0	6.7	4.0	5.0
AH2	7.0	3.3	5.7	4.3	3.3	6.7	5.0	5.0
BAR-FA8230	7.3	6.0	3.3	4.7	4.3	5.3	4.3	5.0
PPG-TF 318	7.7	3.7	6.3	4.3	3.3	6.0	4.0	5.0
BY-TF-169	7.0	5.3	5.7	4.0	3.3	5.3	4.3	5.0
COL-TF-148	7.0	4.0	6.0	5.0	3.7	4.3	5.0	5.0
DEGAS (LTP-TF-111)	6.7	3.3	7.0	4.7	3.7	5.7	4.0	5.0
NATURALLY GREEN	8.0	5.3	4.3	4.0	4.0	5.0	4.3	5.0
PST-5TRN	7.3	4.0	4.7	4.7	3.3	7.3	3.7	5.0
RH3	7.0	4.7	6.3	3.7	3.7	5.0	4.7	5.0
ZION (BAR TF 134)	6.7	4.0	6.3	5.0	3.3	5.0	4.7	5.0
DLFPS-321/3696	8.0	5.3	3.0	4.7	3.0	6.7	4.0	5.0
PPG-TF 306	7.7	4.0	4.7	3.7	3.7	7.0	4.0	5.0
PST-5GQ	7.7	4.7	3.7	4.0	3.7	7.0	4.0	5.0
5LSS	7.0	4.7	6.3	4.0	3.0	5.0	4.7	5.0
BRAVO 2	7.0	5.0	3.7	5.0	3.7	5.7	4.7	5.0
DLFPS-321/3705	7.0	4.0	6.0	4.0	3.0	6.0	4.7	5.0
DYNAMITE G-LS (PPG-TF 254)	7.0	5.0	7.0	3.0	3.0	6.0	3.7	5.0
GLX ACED (PST-5DART)	7.0	4.3	5.7	4.0	3.3	6.3	4.0	5.0
PPG-TF 312	6.3	4.3	7.3	4.0	2.3	5.7	4.7	5.0
PPG-TF 320	7.7	4.0	5.3	4.0	3.3	5.3	5.0	5.0
PST-5DZM	7.7	5.3	5.0	3.0	3.0	6.0	4.7	5.0
DLFPS-321/3708	8.0	5.0	2.7	4.0	3.7	6.7	4.3	4.9
FIREHAWK SLT	7.7	4.3	5.0	4.0	3.7	5.0	4.7	4.9
PPG-TF 313	6.7	3.0	6.7	5.3	3.7	5.3	3.7	4.9
TD2	7.3	5.0	7.0	3.7	2.7	4.3	4.3	4.9
NAI-3N2	7.0	4.0	6.3	4.3	3.0	5.0	4.7	4.9
NAI-ROS4	7.0	5.0	7.0	3.7	3.3	4.3	4.0	4.9
PALOMAR	7.3	4.7	3.7	3.7	4.3	6.3	4.3	4.9
PST-5BYOB	7.7	4.3	6.3	4.0	3.3	4.3	4.3	4.9
STEALTH (PPG-TF 238)	7.3	5.0	6.0	4.3	2.3	5.0	4.3	4.9
BAR 9FE MAS	7.0	5.3	4.3	5.0	3.0	5.0	4.3	4.9
DLFPS-TF/3550	7.3	5.7	5.7	3.3	3.0	4.7	4.3	4.9
DLFPS-TF/3552	7.3	4.7	6.3	3.7	3.3	4.7	4.0	4.9
FIRECRACKER G-LS (PPG-TF 315)	7.7	4.0	4.7	3.0	3.7	6.3	4.7	4.9
LIFEGUARD	7.0	4.3	5.7	5.0	2.7	4.7	4.7	4.9
PPG-TF 337	7.0	4.3	5.0	5.3	3.0	5.0	4.3	4.9
PST-5E6	7.0	5.0	6.0	3.7	3.3	4.7	4.3	4.9
RHF	7.0	3.7	6.0	4.3	2.7	5.7	4.7	4.9
DLFPS-321/3701	7.0	5.7	5.0	3.7	3.3	4.7	4.3	4.8
PST-5THM	7.3	4.7	4.7	4.7	4.0	4.3	4.0	4.8
ATF2116	8.3	4.0	5.7	3.0	3.3	4.3	5.0	4.8
BAR FA 8228	7.3	4.7	4.0	4.3	4.0	6.0	3.3	4.8
DLFPS-TF/3553	7.3	5.0	4.7	3.7	3.3	5.0	4.7	4.8
MOONDANCE GLX	7.7	4.0	6.0	3.3	4.0	5.0	3.7	4.8

TABLE 19.
(CONT'D)

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	IA1	IN1	NJ1	ON1	OR1	PA2	UT1	MEAN
SETF104	8.0	5.7	4.0	2.3	2.3	6.7	4.7	4.8
DLFPS-321/3702	7.7	3.7	4.0	4.3	3.7	5.7	4.3	4.8
K18-RS6	7.0	3.0	6.7	3.7	2.0	6.3	4.7	4.8
RAD-TF105	7.7	4.7	3.7	3.7	3.3	6.0	4.3	4.8
RAPTOR III	7.0	4.3	5.7	4.3	3.0	5.0	4.0	4.8
TF445	7.0	5.0	4.3	4.0	3.3	5.3	4.3	4.8
XANADU (JT 268)	8.0	4.3	5.3	3.0	2.3	5.7	4.7	4.8
AST8218LM	8.0	6.0	3.7	3.7	3.3	3.3	5.0	4.7
COPIOUS TF	8.0	5.7	3.0	3.7	3.3	5.3	4.0	4.7
SETFM2	8.3	5.7	4.3	3.7	2.7	5.0	3.3	4.7
TMT1	7.3	3.3	4.7	3.3	3.7	6.0	4.7	4.7
SETFM3	7.3	5.3	4.7	4.0	2.7	4.7	4.0	4.7
TANGO	7.0	4.7	2.7	4.0	4.0	6.3	4.0	4.7
AST8118LM	8.0	5.3	3.3	3.0	3.3	5.0	4.7	4.7
BULLSEYE LTZ	7.0	5.0	4.7	2.3	3.7	6.3	3.7	4.7
OKEEFE (LTP-TF-122)	6.7	4.0	5.7	4.3	3.7	3.7	4.3	4.6
PPG-TF 257	7.3	4.0	5.0	3.3	3.0	6.0	3.7	4.6
HEMI	6.7	4.3	4.0	5.0	3.0	4.7	4.3	4.6
NAI-ST5	7.3	4.3	3.7	4.0	3.3	5.7	3.7	4.6
PPG-TF 305	7.7	3.3	4.3	3.3	3.0	6.0	4.3	4.6
PPG-TF 316	7.7	4.0	5.0	3.3	2.7	5.3	4.0	4.6
RS1	7.0	4.0	5.3	5.0	2.7	3.3	4.7	4.6
SE5STAR	7.7	5.3	3.7	3.0	3.0	6.0	3.3	4.6
A-TF31	7.7	5.0	4.0	3.7	3.0	4.0	4.3	4.5
ATF1768	7.7	6.0	4.0	2.7	2.7	4.3	4.3	4.5
BONFIRE (JS DTT)	7.7	4.3	2.7	4.3	3.0	5.7	4.0	4.5
RHL2	7.3	2.7	6.3	4.0	2.0	4.7	4.7	4.5
NAI-FQZ-17	7.3	4.7	1.3	4.0	3.7	5.7	4.3	4.4
RAD-TF131	8.3	5.0	3.0	2.7	2.7	5.3	4.0	4.4
PST-5DC24	7.7	4.7	2.0	2.7	4.0	5.7	4.0	4.4
SE53D2	7.3	4.0	4.7	2.3	3.0	6.0	3.3	4.4
GO-AOMK	8.3	3.7	1.7	2.3	3.3	7.3	3.7	4.3
JT 233	7.7	3.7	2.7	3.0	3.7	5.3	4.3	4.3
PPG-TF 323	7.3	3.7	4.3	3.0	3.0	4.3	4.7	4.3
RC4	6.7	4.3	4.0	2.3	2.3	5.7	4.7	4.3
NT-3	7.0	4.7	3.3	3.7	3.0	3.7	4.3	4.2
PST-5MINK	8.0	4.3	1.0	3.7	3.0	5.3	4.0	4.2
RAD-TF115 (TURBO SS)	8.7	5.0	1.3	3.0	2.7	4.7	4.0	4.2
NAI-TUE	7.7	4.0	2.3	3.3	3.3	3.7	4.3	4.1
LSD VALUE	0.7	1.7	2.2	1.7	1.5	1.6	2.0	0.6
C.V. (%)	6.3	22.2	26.1	26.3	28.1	17.6	28.4	21.2

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 20.

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	CT1	DE1	IA1	IN1	MS1	NC1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	MEAN
K18-NSE	6.3	8.3	9.0	6.7	5.7	6.7	7.7	6.7	7.3	8.3	6.7	6.0	3.7	6.8
5LSS	6.3	7.7	9.0	7.0	5.7	7.0	7.3	6.3	7.3	7.3	8.3	5.0	4.3	6.8
AH2	6.3	8.0	9.0	6.0	5.7	7.0	8.0	6.0	7.3	7.7	7.0	6.7	3.3	6.8
PPG-TF 337	7.0	8.0	9.0	7.0	5.0	6.7	6.7	6.3	7.3	7.0	8.0	6.3	3.0	6.7
FIRECRACKER G-LS (PPG-TF 315)	6.0	7.7	9.0	6.3	5.3	6.7	6.3	6.7	7.7	8.0	7.0	6.7	3.7	6.7
ZION (BAR TF 134)	6.0	7.7	9.0	6.3	5.3	6.0	7.7	6.3	7.7	7.0	7.7	6.3	3.3	6.6
AH1	6.3	7.7	9.0	6.0	5.3	7.0	7.0	6.3	7.3	8.3	6.3	6.0	3.3	6.6
PPG-TF 312	6.7	7.7	9.0	6.0	4.7	6.3	7.3	6.0	7.7	7.3	7.0	6.3	4.0	6.6
TD2	6.0	7.7	9.0	6.7	5.7	6.3	7.0	6.3	7.7	6.3	7.7	6.3	3.3	6.6
PPG-TF 267	6.3	7.7	9.0	7.0	5.0	7.0	6.0	5.7	7.7	7.7	7.0	6.3	3.3	6.6
RC4	7.0	7.7	9.0	6.3	5.0	7.0	7.0	6.0	7.3	5.7	7.0	7.0	3.3	6.6
SPYDER 2LS (ZRC1)	6.3	7.3	9.0	6.0	5.0	7.0	7.7	6.0	8.0	7.0	6.3	6.3	3.3	6.6
RHF	6.3	7.0	8.0	7.0	5.3	6.3	7.3	6.0	7.3	7.0	6.7	7.0	3.7	6.5
DLFPS-321/3707	6.0	8.0	9.0	6.7	5.3	6.0	6.3	6.0	7.3	7.7	7.3	6.0	3.3	6.5
DLFPS-321/3708	6.0	7.3	9.0	6.7	5.3	6.7	6.7	6.7	7.0	7.0	7.7	5.7	3.0	6.5
PPG-TF 313	6.0	7.3	9.0	5.3	5.3	6.0	7.7	6.0	7.7	6.7	6.7	7.0	4.0	6.5
PPG-TF 305	6.3	7.3	9.0	6.3	5.3	6.7	6.3	6.7	7.7	7.3	6.7	5.7	3.3	6.5
COL-TF-148	6.3	7.0	9.0	6.7	5.0	6.3	6.7	6.0	7.3	6.0	7.0	7.0	3.7	6.5
DLFPS-TF/3552	6.0	7.7	9.0	7.0	5.0	6.3	7.0	5.7	7.0	7.3	7.0	5.7	3.3	6.5
JT 233	6.0	7.0	9.0	6.3	5.3	6.7	6.3	6.3	7.3	6.7	7.0	6.3	3.7	6.5
DLFPS-321/3693	6.7	7.3	9.0	6.0	5.0	6.7	7.3	6.0	7.3	6.3	6.7	6.0	3.3	6.4
DLFPS-321/3706	6.0	8.0	9.0	6.0	4.7	5.3	7.3	6.3	7.7	8.0	7.0	5.3	3.0	6.4
PPG-TF 249	6.0	7.0	9.0	6.3	4.0	6.7	6.7	6.0	7.3	7.3	7.0	6.7	3.7	6.4
PPG-TF 338	6.0	7.7	9.0	6.7	5.0	6.3	6.3	6.7	7.0	6.3	7.0	6.7	3.0	6.4
RHL2	6.7	7.7	9.0	6.0	5.0	6.7	7.0	6.0	7.0	6.7	6.7	5.3	4.0	6.4
DLFPS-321/3701	6.7	7.7	8.7	6.3	5.0	6.3	5.7	6.0	7.3	7.3	6.7	6.0	3.7	6.4
BONFIRE (JS DTT)	6.3	7.3	9.0	6.3	4.7	6.7	6.0	6.0	6.7	7.0	7.3	7.0	3.0	6.4
DLFPS-321/3699	6.3	7.0	9.0	7.3	5.0	6.7	6.0	6.0	7.3	6.3	6.7	6.3	3.3	6.4
DLFPS-TF/3553	6.3	7.7	8.7	6.3	5.7	6.0	5.7	6.3	7.0	7.7	7.0	5.7	3.3	6.4
PPG-TF 306	6.7	7.0	9.0	6.0	5.0	7.0	7.0	6.0	7.7	6.7	6.3	6.0	3.0	6.4
TITANIUM G-LS (PPG-TF 255)	6.0	7.3	9.0	6.3	5.0	6.7	5.7	6.3	7.0	7.7	6.7	6.3	3.3	6.4
DYNAMITE G-LS (PPG-TF 254)	6.3	7.7	9.0	6.3	4.0	5.7	7.0	6.3	7.3	7.0	7.3	6.3	3.0	6.4
BULLSEYE LTZ	6.0	8.0	9.0	6.3	4.7	6.7	5.3	6.0	7.7	7.0	7.0	6.3	3.0	6.4
BY-TF-169	6.3	7.0	9.0	5.7	5.0	6.3	7.0	6.3	7.3	6.7	6.7	6.0	3.3	6.4
K18-RS6	6.0	7.3	8.3	6.0	5.3	6.3	7.3	6.3	7.3	6.3	6.7	6.3	3.0	6.4
DLFPS-321/3702	6.0	7.3	9.0	6.3	5.0	6.3	5.7	6.7	7.3	7.3	6.3	6.0	3.3	6.4
A-TF31	6.3	7.0	9.0	7.7	5.3	7.0	4.0	6.3	7.0	6.3	6.7	6.0	3.7	6.3
PPG-TF 316	6.0	7.0	9.0	6.3	5.3	6.0	6.3	6.0	7.0	5.7	7.0	7.0	3.7	6.3
STEALTH (PPG-TF 238)	6.3	7.7	9.0	6.0	4.7	6.3	6.0	6.3	7.3	6.3	7.0	5.7	3.7	6.3
K18-WB1	6.0	7.0	9.0	6.3	5.0	6.0	7.0	6.0	7.7	5.3	7.3	6.7	3.0	6.3
PPG-TF 257	6.3	7.7	9.0	6.3	4.7	6.0	6.3	6.0	7.0	6.0	7.3	6.3	3.3	6.3
PPG-TF 262	6.0	7.7	9.0	6.3	4.3	6.0	6.7	6.0	7.7	6.7	6.3	6.7	3.0	6.3
PPG-TF 320	6.0	7.3	9.0	6.0	5.3	6.7	5.7	6.3	7.0	6.0	7.0	6.7	3.0	6.3
XANADU (JT 268)	6.3	7.3	9.0	7.0	5.3	6.7	5.7	6.0	7.0	5.7	7.0	6.0	3.0	6.3
AVENGER III (PPG-TF 308)	6.0	7.3	9.0	6.3	5.3	6.0	6.0	5.7	6.7	7.3	6.7	6.3	3.3	6.3
RDC	6.3	7.0	9.0	6.7	4.7	6.3	6.3	6.3	7.0	5.7	6.7	6.7	3.0	6.3

TABLE 20.
(CONT'D)

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	CT1	DE1	IA1	IN1	MS1	NC1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	MEAN
COPIOUS TF	6.3	7.0	9.0	7.0	5.0	6.3	6.0	5.7	7.0	6.7	7.0	5.7	3.0	6.3
PPG-TF 318	6.3	7.3	9.0	6.3	4.0	6.3	6.3	6.0	7.3	6.3	7.0	6.0	3.3	6.3
SESCR1	6.0	7.3	9.0	5.7	4.7	7.0	6.7	6.3	7.3	6.0	6.7	6.0	3.0	6.3
NT-3	6.0	7.0	9.0	6.3	5.0	6.0	6.3	6.0	6.7	7.0	7.0	6.3	3.0	6.3
RH1	6.0	7.3	9.0	6.0	5.0	6.7	5.7	6.0	7.3	5.7	7.0	6.7	3.3	6.3
DRAGSTER	6.0	7.0	9.0	6.3	4.0	6.7	6.3	6.3	6.7	7.0	6.7	5.7	3.7	6.3
RAD-TF105	6.7	7.0	9.0	6.7	4.3	6.3	6.0	5.7	7.3	6.3	6.7	6.3	3.0	6.3
SETF104	6.7	7.3	9.0	6.7	4.7	6.0	6.0	6.0	7.0	5.3	7.0	6.0	3.7	6.3
DLFPS-321/3695	6.0	7.0	9.0	6.3	5.0	6.7	6.7	6.3	7.0	6.0	5.7	6.3	3.3	6.3
RAPTOR LS (PPG-TF 336)	6.0	7.0	9.0	6.3	4.7	6.3	5.7	6.3	7.0	7.0	6.3	5.7	3.7	6.2
GO-RH20	6.3	7.3	9.0	6.0	5.0	6.3	6.0	6.0	6.7	6.7	6.7	6.0	3.0	6.2
NAI-3N2	6.0	7.0	9.0	6.3	4.3	6.3	5.7	6.0	7.3	6.0	7.3	6.0	3.7	6.2
PPG-TF 323	6.0	8.7	9.0	6.3	4.3	6.3	5.3	6.3	7.3	5.3	6.7	6.3	3.0	6.2
PPG-TF 244	6.3	7.7	9.0	5.7	4.7	6.3	6.3	6.3	7.0	6.0	6.7	5.7	3.0	6.2
DEGAS (LTP-TF-111)	6.0	7.0	9.0	6.0	5.0	6.0	6.0	6.0	7.0	6.7	7.0	6.0	3.0	6.2
DLFPS-321/3696	6.0	7.0	9.0	6.7	4.3	6.7	5.0	6.3	7.3	6.3	7.0	5.7	3.3	6.2
TF445	6.0	7.3	9.0	5.7	4.3	6.0	6.0	6.0	7.3	7.0	7.0	6.0	3.0	6.2
TMT1	6.0	7.3	9.0	6.0	4.3	6.3	5.7	6.0	7.0	6.7	6.7	6.7	3.0	6.2
PARAMOUNT	6.0	6.7	9.0	6.7	5.0	6.3	5.3	5.7	7.0	7.0	6.7	6.0	3.0	6.2
RAD-TF131	6.3	7.3	9.0	5.7	5.0	6.0	6.0	5.7	7.7	5.3	7.0	5.7	3.7	6.2
ESTRENA	6.0	7.0	9.0	7.0	4.3	6.0	5.0	6.0	7.3	7.7	6.3	5.3	3.3	6.2
PPG-TF 231	6.3	7.0	9.0	6.3	4.3	6.3	6.0	6.3	7.7	6.3	6.0	5.3	3.3	6.2
TF456	6.0	7.7	9.0	6.3	4.7	6.0	5.3	6.0	7.3	6.7	7.0	5.3	3.0	6.2
DLFPS-321/3694	6.0	7.0	9.0	6.0	4.0	6.3	6.3	6.0	7.3	5.3	7.0	6.3	3.3	6.2
DLFPS-TF/3550	6.0	7.3	8.3	6.7	4.3	5.7	6.3	6.0	7.0	6.7	7.0	5.7	3.0	6.2
NAI-ROS4	6.3	7.3	8.7	6.0	4.3	6.0	6.3	6.0	7.0	6.3	7.0	5.7	3.0	6.2
FIREHAWK SLT	6.0	7.7	9.0	6.3	5.0	6.3	5.0	6.0	7.0	6.0	6.7	5.7	3.0	6.1
3N1	6.0	7.0	9.0	6.3	4.7	6.3	5.0	6.0	7.3	6.0	7.3	5.7	3.0	6.1
RAPTOR III	6.3	7.0	9.0	5.0	4.7	6.3	6.0	5.7	7.0	7.0	7.0	5.7	3.0	6.1
GO-AOMK	6.0	7.0	9.0	6.7	4.7	6.7	4.7	6.0	7.0	6.3	7.0	5.3	3.3	6.1
RS1	6.3	7.3	9.0	6.0	5.0	6.0	6.7	6.0	7.0	5.0	6.7	5.3	3.3	6.1
DLFPS-321/3703	6.3	6.7	9.0	6.0	5.3	6.0	5.0	6.0	7.3	6.0	6.7	5.7	3.3	6.1
LBF	6.0	7.0	9.0	6.3	5.0	6.3	5.3	5.3	7.0	6.0	7.0	6.0	3.0	6.1
PST-5DZM	6.0	7.0	9.0	6.3	4.7	6.3	5.0	5.7	7.3	5.7	6.7	6.7	3.0	6.1
NAI-ST5	6.0	7.0	9.0	6.3	4.7	6.3	5.7	5.7	7.0	6.7	7.0	5.0	3.0	6.1
3B2	6.0	7.0	8.7	5.3	5.3	5.7	5.7	6.3	7.3	5.7	7.0	6.0	3.0	6.1
GRANDE 3	6.0	7.0	9.0	5.7	4.3	6.3	5.7	6.0	7.7	5.7	7.0	5.7	3.0	6.1
RH3	6.0	7.0	9.0	7.0	4.7	5.7	5.0	6.0	7.0	6.0	6.7	5.7	3.3	6.1
SETFM3	6.0	7.0	9.0	6.3	4.3	6.7	4.3	6.0	7.0	6.7	6.7	6.0	3.0	6.1
JT 517	6.0	6.7	8.7	6.0	4.7	6.3	4.0	6.3	7.3	6.7	6.7	6.3	3.0	6.1
RAD-TF115 (TURBO SS)	6.3	6.7	9.0	6.3	4.7	6.0	4.3	4.7	7.7	6.0	7.7	5.3	4.0	6.1
OKEEFE (LTP-TF-122)	6.0	7.0	8.3	6.0	4.3	5.7	6.3	6.0	7.3	5.7	7.0	5.7	3.0	6.0
PADRE 2	6.0	6.7	9.0	6.3	5.0	6.3	5.0	6.3	6.7	6.0	6.7	5.3	3.0	6.0
PRO GOLD	6.0	7.0	9.0	5.7	4.3	6.0	5.0	6.0	7.0	6.0	7.0	6.3	3.0	6.0
PST-5MINK	6.0	6.7	9.0	6.3	4.3	6.3	4.0	6.0	7.0	5.7	7.7	6.3	3.0	6.0
BANDIT	6.0	7.0	9.0	6.0	4.7	6.3	4.3	5.7	7.0	6.0	7.0	5.7	3.3	6.0
BIRMINGHAM	6.3	6.3	9.0	6.3	4.7	6.0	3.7	5.7	7.3	6.7	7.0	5.7	3.3	6.0

TABLE 20.
(CONT'D)

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/														
NAME	CT1	DE1	IA1	IN1	MS1	NC1	NJ2	OK1	ON1	OR1	PA2	TN1	UT1	MEAN
DLFPS-321/3705	6.0	7.0	9.0	6.0	4.7	6.0	6.0	6.0	7.0	5.7	6.7	5.0	3.0	6.0
MONUMENT (PST-5SQB)	6.0	7.0	9.0	6.0	4.3	6.3	4.7	6.0	7.0	5.0	7.7	6.0	3.0	6.0
PST-5GQ	6.0	7.0	9.0	5.7	4.3	6.3	5.0	6.0	7.0	5.3	7.0	6.3	3.0	6.0
AST8218LM	6.0	7.0	8.7	6.3	4.7	5.7	6.3	5.3	7.0	5.7	6.7	5.7	2.7	6.0
DLFPS-321/3679	6.0	7.3	9.0	6.0	4.7	6.0	5.0	6.0	6.7	5.3	6.7	5.7	3.3	6.0
FAYETTE	6.0	7.0	9.0	6.0	5.0	6.0	4.7	6.3	7.0	6.3	6.7	4.7	3.0	6.0
PST-5MCMO	6.0	7.0	9.0	5.7	4.3	6.0	5.0	5.7	7.3	5.7	7.0	6.0	3.0	6.0
PST-5TRN	6.0	6.7	9.0	6.0	5.0	6.0	4.3	6.0	7.3	6.0	7.0	5.0	3.0	5.9
LIFEGUARD	6.0	7.0	9.0	6.3	4.3	6.0	4.7	6.0	7.0	5.0	6.7	6.0	3.0	5.9
SETFM2	6.0	6.7	9.0	6.3	4.7	6.3	4.3	5.7	7.0	5.0	7.0	6.0	3.0	5.9
NAI-TUE	6.0	7.0	9.0	6.3	4.0	6.7	4.7	5.7	7.0	5.7	6.7	5.3	3.0	5.9
SE5STAR	6.0	7.0	9.0	6.0	4.3	6.3	4.3	6.0	7.3	5.3	6.3	5.7	3.0	5.9
PST-5E6	6.0	7.0	9.0	5.7	4.3	5.7	5.0	5.7	7.3	5.7	6.7	6.0	2.7	5.9
PST-5GLBS	6.0	6.7	8.7	6.0	4.3	6.0	4.3	6.0	7.3	5.7	6.7	5.7	3.3	5.9
ATF1768	6.3	7.0	9.0	6.7	4.3	5.3	4.7	5.3	7.0	5.7	6.7	5.3	3.3	5.9
GLX ACED (PST-5DART)	6.0	7.0	9.0	6.0	4.7	5.7	4.7	5.7	7.0	6.0	6.3	6.0	2.7	5.9
HEMI	6.0	7.0	9.0	5.5	4.7	5.7	5.0	5.7	7.0	5.7	7.0	5.3	3.0	5.9
AST8118LM	6.0	7.0	9.0	6.3	4.3	6.3	3.7	5.3	7.0	6.0	6.7	5.7	3.0	5.9
MOONDANCE GLX	6.0	7.0	9.0	5.7	4.3	6.3	4.0	6.0	7.0	5.0	7.0	6.3	2.7	5.9
BULLSEYE	6.3	7.0	9.0	5.3	4.3	6.0	4.0	6.0	6.7	6.3	7.0	5.0	3.3	5.9
KIZZLE (K18-ROE)	6.0	6.7	8.7	6.0	4.3	6.0	4.0	6.0	7.3	5.7	7.3	5.3	3.0	5.9
PST-5DC24	6.0	6.7	9.0	5.7	5.3	6.0	4.0	5.3	6.7	5.7	7.0	6.0	2.7	5.8
PST-5BYOB	6.0	7.0	9.0	5.7	4.3	5.7	4.3	5.3	7.0	5.7	7.0	5.7	3.3	5.8
SE53D2	6.0	7.0	9.0	5.7	5.0	5.7	4.0	6.0	7.0	5.7	6.7	4.7	3.0	5.8
PST-5THM	6.0	7.0	9.0	5.7	4.3	6.0	4.0	5.7	7.0	5.7	7.0	5.7	2.3	5.8
NATURALLY GREEN	6.0	6.7	9.0	5.7	4.3	6.0	4.3	5.3	7.3	5.7	6.3	5.3	3.0	5.8
NAI-FQZ-17	6.0	6.7	9.0	5.7	4.0	5.7	3.3	5.3	7.3	6.0	7.3	5.3	3.0	5.7
TANGO	6.0	7.0	9.0	6.0	4.0	5.7	4.7	5.3	7.0	4.7	7.0	5.3	3.0	5.7
BRAVO 2	6.0	6.3	9.0	5.3	4.3	6.0	4.0	5.7	6.3	5.3	7.0	5.7	3.0	5.7
BAR 9FE MAS	6.0	7.0	9.0	5.3	4.0	6.0	4.3	5.3	7.0	5.0	6.7	5.3	3.0	5.7
BGR-TF3	6.0	6.7	9.0	6.7	4.0	5.7	4.0	5.3	6.0	5.3	6.7	5.3	3.0	5.7
BAR-FA8230	6.0	6.7	9.0	5.3	4.3	5.0	3.7	5.7	7.0	5.3	7.3	5.3	3.0	5.7
GRAND PRIX (FC15-01P)	6.0	6.7	9.0	5.3	4.0	5.3	4.3	6.0	7.0	5.7	6.7	5.3	2.3	5.7
ATF2116	6.0	6.7	9.0	6.0	4.3	5.3	3.7	5.7	6.3	5.0	6.7	5.3	2.7	5.6
ESCALADE	6.0	6.3	8.0	5.3	4.3	4.7	3.3	5.7	7.3	5.7	7.0	6.0	2.7	5.6
OG-WALK	6.0	6.3	9.0	5.3	4.0	5.0	3.0	5.0	6.7	6.3	7.3	5.0	2.7	5.5
PALOMAR	6.0	6.7	9.0	5.3	4.0	4.7	3.3	5.3	7.0	5.3	6.7	4.3	3.0	5.4
BAR FA 8228	6.0	6.0	8.7	5.3	4.0	5.3	3.3	5.0	7.0	4.3	6.7	5.7	3.0	5.4
KENTUCKY-31	4.0	5.0	9.0	4.0	3.0	4.0	1.0	4.0	4.3	3.0	6.7	4.7	1.0	4.1
LSD VALUE	0.5	0.7	0.5	1.1	0.9	0.9	1.4	0.8	0.9	1.4	0.8	1.2	0.7	0.3
C.V. (%)	5.2	6.4	3.5	10.6	12.5	8.9	16.1	8.2	8.3	14.0	7.7	12.6	14.2	9.7

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

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

TABLE 21. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/							
NAME	IA1	IN1	MS1	NC1	NE1	OK1	TN1	MEAN
TITANIUM G-LS (PPG-TF 255)	8.0	6.0	6.7	7.0	6.7	6.3	7.0	6.8
PPG-TF 338	7.0	6.7	7.0	6.0	7.0	6.0	7.7	6.8
RH1	7.3	6.7	7.0	7.0	6.3	6.3	6.7	6.8
TF445	7.3	7.0	6.7	6.7	6.7	6.0	7.0	6.8
PPG-TF 320	7.3	6.3	6.7	6.3	6.7	6.7	7.3	6.8
TF456	7.7	6.3	6.7	6.0	7.0	6.3	7.0	6.7
3B2	7.7	6.3	6.7	6.0	7.0	6.3	6.7	6.7
PST-5GLBS	7.0	6.3	7.0	6.3	6.3	6.7	7.0	6.7
TD2	7.3	6.3	7.0	6.0	6.0	6.7	7.3	6.7
ATF2116	7.7	6.3	6.7	6.0	7.0	6.0	6.3	6.6
LIFEGUARD	6.7	6.3	7.0	5.7	6.7	7.3	6.3	6.6
DLFPS-321/3701	7.0	7.0	6.7	6.3	6.7	5.3	7.0	6.6
NAI-ROS4	7.3	5.7	6.7	6.0	6.7	6.7	7.0	6.6
PPG-TF 244	7.0	6.7	7.0	5.7	6.3	6.7	6.7	6.6
PST-5MCMO	7.3	6.7	6.0	6.3	6.0	7.0	6.7	6.6
PPG-TF 316	7.0	6.0	7.0	6.7	6.7	6.0	6.3	6.5
DLFPS-321/3679	7.3	6.7	6.3	5.3	7.0	6.3	6.7	6.5
GLX ACED (PST-5DART)	7.3	6.0	6.7	5.7	6.7	6.7	6.7	6.5
PADRE 2	7.3	6.3	6.7	5.7	6.7	6.3	6.7	6.5
PST-5THM	7.0	6.3	6.3	6.0	5.7	7.3	7.0	6.5
SETFM3	7.3	6.7	6.0	6.0	6.7	6.0	7.0	6.5
ATF1768	7.3	6.3	6.3	5.3	6.7	6.3	7.0	6.5
STEALTH (PPG-TF 238)	6.3	6.0	6.0	6.0	6.3	7.3	7.3	6.5
NAI-TUE	7.0	5.3	6.3	6.7	6.7	5.7	7.7	6.5
PPG-TF 318	8.0	5.3	6.7	6.3	6.3	6.0	6.7	6.5
PST-5E6	8.0	6.0	6.3	6.0	6.3	6.0	6.7	6.5
BIRMINGHAM	7.7	6.0	6.0	5.7	6.3	6.0	7.3	6.4
NAI-3N2	7.7	6.3	6.7	4.7	6.3	6.0	7.3	6.4
PST-5TRN	7.0	5.7	6.3	6.7	6.0	7.0	6.3	6.4
DLFPS-321/3696	7.0	6.7	6.7	5.7	6.0	6.0	7.0	6.4
DLFPS-TF/3552	7.3	6.7	6.0	5.3	6.7	6.0	7.0	6.4
RC4	7.3	5.7	7.0	5.3	6.7	6.3	6.7	6.4
FIRECRACKER G-LS (PPG-TF 315)	7.0	5.7	7.0	4.0	7.0	6.7	7.3	6.4
RS1	7.7	6.0	6.7	6.7	6.3	5.3	6.0	6.4
SE53D2	7.7	5.7	6.3	6.3	6.3	6.3	6.0	6.4
SESCR1	7.0	5.0	6.7	6.0	6.3	6.3	7.3	6.4
3N1	7.0	6.7	6.0	5.7	6.0	6.7	6.7	6.4
BONFIRE (JS DTT)	7.0	5.3	7.0	5.7	7.0	6.7	6.0	6.4
COL-TF-148	7.7	5.3	6.7	5.3	6.3	6.7	6.7	6.4
DLFPS-321/3705	7.3	5.7	6.0	6.3	6.3	6.3	6.7	6.4
GO-RH20	7.0	6.0	6.0	6.3	6.7	5.7	7.0	6.4
LBf	7.0	6.3	5.7	6.7	6.7	5.7	6.7	6.4
PRO GOLD	7.3	6.3	6.3	6.0	6.0	6.0	6.7	6.4
RAPTOR LS (PPG-TF 336)	7.0	6.0	6.7	5.3	6.3	6.3	7.0	6.4
DLFPS-321/3695	7.3	6.3	6.7	5.3	6.7	5.7	6.7	6.4
DLFPS-321/3708	7.0	5.7	6.7	4.7	5.7	7.3	7.3	6.3

TABLE 21. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2020 DATA

	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/							
NAME	IA1	IN1	MS1	NC1	NE1	OK1	TN1	MEAN
AH1	7.7	5.7	6.7	5.0	6.3	6.7	6.3	6.3
BAR 9FE MAS	7.7	5.7	6.0	6.3	6.7	6.0	6.0	6.3
DEGAS (LTP-TF-111)	7.3	5.7	6.7	5.7	6.3	6.0	6.7	6.3
DLFPS-321/3694	7.7	6.0	6.7	4.7	7.0	5.0	7.3	6.3
DLFPS-321/3699	7.0	6.0	6.7	5.0	6.7	6.0	7.0	6.3
MONUMENT (PST-5SQB)	7.7	6.0	6.7	6.0	6.0	6.3	5.7	6.3
TANGO	7.0	6.7	6.0	6.3	5.7	6.0	6.7	6.3
NAI-ST5	7.0	5.0	6.7	7.0	6.3	5.7	6.7	6.3
PST-5GQ	6.7	6.0	6.0	6.3	6.3	6.0	7.0	6.3
RH3	7.3	6.3	7.0	5.0	6.0	6.0	6.7	6.3
PST-5BYOB	6.3	6.0	6.0	6.0	6.5	6.7	6.7	6.3
5LSS	7.0	6.3	6.7	5.7	6.0	6.0	6.3	6.3
PARAMOUNT	7.0	5.7	6.7	5.3	6.7	6.3	6.3	6.3
TMT1	7.7	5.7	7.0	4.3	6.7	6.3	6.3	6.3
AH2	7.0	5.7	6.3	5.7	6.3	6.3	6.7	6.3
BY-TF-169	6.7	5.7	6.3	5.3	6.7	6.3	7.0	6.3
DRAGSTER	7.0	6.3	6.3	5.0	6.7	5.7	7.0	6.3
JT 233	6.7	5.7	6.3	5.7	6.7	6.0	7.0	6.3
PPG-TF 305	7.7	5.0	7.0	5.7	6.7	6.3	5.7	6.3
RDC	7.0	6.0	6.7	5.7	6.0	5.7	7.0	6.3
XANADU (JT 268)	6.7	5.7	6.7	6.0	7.0	5.7	6.3	6.3
ESCALADE	7.7	6.0	6.0	5.3	6.3	6.0	6.7	6.3
PPG-TF 323	7.3	5.0	6.3	6.3	6.3	6.0	6.7	6.3
ZION (BAR TF 134)	7.7	5.7	6.3	4.7	6.7	6.3	6.3	6.2
GRANDE 3	7.3	6.3	6.7	5.3	6.0	5.7	6.3	6.2
JT 517	7.0	6.7	6.3	5.3	6.3	5.7	6.3	6.2
K18-WB1	7.7	5.7	6.7	4.3	6.3	6.3	6.7	6.2
NAI-FQZ-17	6.3	7.0	6.3	5.0	6.3	5.7	7.0	6.2
MOONDANCE GLX	7.0	5.7	6.7	4.7	6.7	6.3	6.3	6.2
DLFPS-TF/3550	6.7	6.3	6.0	5.7	6.0	6.0	6.7	6.2
PPG-TF 262	7.3	5.3	6.7	5.7	6.3	5.7	6.3	6.2
PPG-TF 267	6.3	6.7	6.0	6.0	6.7	4.7	7.0	6.2
AVENGER III (PPG-TF 308)	6.7	5.7	6.7	6.0	6.3	5.3	6.7	6.2
GRAND PRIX (FC15-01P)	6.7	6.0	6.0	6.0	6.3	5.7	6.7	6.2
RAD-TF105	7.3	6.0	7.0	4.3	6.7	5.0	7.0	6.2
SE5STAR	6.7	6.0	6.3	5.3	6.3	6.0	6.7	6.2
PPG-TF 249	6.7	6.0	6.7	4.7	6.3	6.3	6.3	6.1
AST8218LM	7.3	6.3	6.0	4.7	6.7	6.0	6.0	6.1
BRAVO 2	6.7	6.7	7.0	5.3	5.7	5.7	6.0	6.1
DLFPS-TF/3553	6.7	6.7	6.0	5.3	6.3	5.3	6.7	6.1
K18-NSE	6.7	7.0	7.0	4.0	6.3	5.3	6.7	6.1
NT-3	7.7	6.0	6.3	5.0	6.7	4.7	6.7	6.1
PPG-TF 306	7.0	5.3	6.3	5.7	6.7	5.0	7.0	6.1
RHF	6.3	5.3	7.0	5.7	6.7	5.3	6.7	6.1
PST-5DZM	7.0	5.3	6.3	6.0	5.7	6.0	6.7	6.1
BANDIT	7.7	6.0	6.0	5.0	6.0	6.0	6.0	6.1
BULLSEYE	7.0	5.0	7.0	5.7	6.3	5.3	6.3	6.1

TABLE 21. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2020 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	IA1	IN1	MS1	NC1	NE1	OK1	TN1	MEAN
FAYETTE	7.3	6.3	6.3	4.7	6.0	5.7	6.3	6.1
GO-AOMK	6.7	5.0	6.0	5.7	6.3	6.0	7.0	6.1
OG-WALK	7.0	6.3	6.3	4.7	6.7	5.3	6.3	6.1
BAR-FA8230	7.7	6.0	6.3	4.7	6.0	5.3	6.7	6.1
BULLSEYE LTZ	6.3	6.0	6.3	5.0	6.3	6.0	6.7	6.1
DLFPS-321/3693	6.3	5.3	7.0	4.7	7.0	5.3	7.0	6.1
K18-RS6	6.3	5.3	6.7	6.0	6.0	6.3	6.0	6.1
PPG-TF 257	6.7	5.3	6.3	5.3	6.0	6.3	6.7	6.1
BAR FA 8228	8.0	6.0	6.0	5.0	6.0	5.0	6.3	6.0
DLFPS-321/3702	7.3	5.7	6.3	4.7	6.0	6.0	6.3	6.0
DLFPS-321/3707	6.7	6.7	6.7	4.7	6.3	5.0	6.3	6.0
PPG-TF 231	6.7	6.3	7.0	4.7	6.0	5.3	6.3	6.0
KIZZLE (K18-ROE)	6.7	6.3	6.3	5.0	6.0	6.0	6.0	6.0
PPG-TF 337	7.0	5.7	7.0	5.3	6.3	5.3	5.7	6.0
SETF104	7.7	5.7	6.7	4.3	6.0	5.0	7.0	6.0
SETFM2	7.3	6.0	6.3	4.3	6.0	5.7	6.7	6.0
AST8118LM	7.7	6.7	6.0	4.3	5.7	5.3	6.3	6.0
PPG-TF 312	7.7	5.3	6.7	5.0	6.0	5.0	6.3	6.0
DLFPS-321/3706	7.0	6.0	7.0	4.3	6.3	5.3	6.0	6.0
FIREHAWK SLT	7.3	6.0	6.0	5.0	6.3	5.0	6.3	6.0
OKEEFE (LTP-TF-122)	6.7	5.7	6.3	5.0	7.0	6.3	5.0	6.0
PPG-TF 313	6.7	5.3	7.0	4.3	6.7	6.0	6.0	6.0
PST-5DC24	6.7	6.7	6.0	4.7	5.7	5.7	6.7	6.0
BGR-TF3	7.7	6.3	6.3	4.3	6.0	5.7	5.7	6.0
COPIOUS TF	7.3	6.3	6.0	4.7	5.7	5.0	6.7	6.0
HEMI	7.3	4.7	6.0	6.3	6.3	4.7	6.3	6.0
NATURALLY GREEN	6.7	6.3	5.7	4.7	6.3	5.3	6.7	6.0
SPYDER 2LS (ZRC1)	6.0	5.3	6.7	5.3	6.0	6.3	6.0	6.0
DYNAMITE G-LS (PPG-TF 254)	6.7	6.0	6.7	5.0	6.3	5.0	5.7	5.9
ESTRENA	6.3	6.0	6.7	5.0	6.7	4.3	6.3	5.9
PALOMAR	7.3	6.0	6.3	4.3	6.3	5.3	5.7	5.9
RAPTOR III	6.7	5.3	6.3	5.0	6.3	5.0	6.7	5.9
PST-5MINK	7.0	5.7	6.0	3.7	6.7	5.3	6.3	5.8
DLFPS-321/3703	6.3	5.7	6.3	4.7	6.0	5.0	6.7	5.8
RAD-TF131	7.7	5.0	6.7	3.0	6.7	3.0	7.0	5.6
KENTUCKY-31	7.0	4.0	5.0	5.3	6.3	4.3	6.3	5.5
A-TF31	6.7	5.3	5.7	4.0	5.7	4.0	6.7	5.4
RHL2	7.0	4.3	6.7	4.0	5.7	3.7	6.7	5.4
RAD-TF115 (TURBO SS)	7.3	4.7	5.3	2.3	6.3	1.7	6.3	4.9
LSD VALUE	1.2	1.3	0.8	1.8	0.9	1.2	1.3	0.5
C.V. (%)	10.8	13.9	7.4	20.6	8.6	13.2	12.0	12.5

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. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/							
NAME	CT1	IA1	IN1	OK1	ON1	OR1	TN1	MEAN
5LSS	6.3	7.0	8.0	7.0	6.7	8.3	7.7	7.3
BULLSEYE LTZ	6.0	6.7	7.3	7.0	6.0	7.3	8.3	7.0
SPYDER 2LS (ZRC1)	6.7	5.7	6.3	7.0	7.7	7.3	8.0	7.0
K18-NSE	6.3	6.7	7.3	6.0	6.3	8.0	8.0	7.0
PPG-TF 323	6.0	7.0	6.0	7.3	7.7	7.0	7.7	7.0
AH1	6.7	6.0	6.3	7.7	6.0	7.3	8.3	6.9
FIRECRACKER G-LS (PPG-TF 315)	6.3	7.7	6.7	8.0	5.0	6.7	8.0	6.9
JT 233	6.0	8.0	6.0	7.0	6.7	7.3	7.3	6.9
PPG-TF 249	6.7	6.3	7.0	7.3	6.7	7.0	7.3	6.9
RAPTOR LS (PPG-TF 336)	6.7	6.7	7.3	6.7	6.7	7.0	7.3	6.9
PPG-TF 320	6.3	6.7	7.0	7.3	7.0	7.0	7.0	6.9
PPG-TF 267	7.0	6.7	7.3	6.7	5.7	7.0	7.7	6.9
PPG-TF 313	6.3	7.3	5.7	5.0	7.7	8.3	7.7	6.9
TD2	6.7	7.0	5.7	7.3	6.7	6.7	8.0	6.9
PPG-TF 262	6.3	6.0	6.0	7.0	6.3	7.7	8.7	6.9
DLFPS-321/3701	6.7	7.3	6.7	7.0	6.0	7.0	7.0	6.8
DLFPS-321/3702	6.7	6.7	5.3	7.0	6.3	7.3	8.3	6.8
DLFPS-TF/3553	6.7	6.7	6.0	6.7	6.3	7.3	8.0	6.8
DRAGSTER	6.0	6.7	6.7	6.3	5.7	8.0	8.3	6.8
PPG-TF 338	6.0	7.7	6.7	7.3	5.3	6.3	8.3	6.8
XANADU (JT 268)	6.7	7.3	6.7	6.3	6.3	7.3	7.0	6.8
GO-RH20	7.0	6.3	6.3	7.0	6.3	7.0	7.7	6.8
PPG-TF 305	6.3	6.3	6.0	7.0	6.3	8.0	7.7	6.8
RH3	6.0	6.0	7.0	7.0	7.0	7.0	7.7	6.8
DLFPS-321/3696	6.7	6.3	6.0	7.0	7.3	6.0	8.0	6.8
DLFPS-321/3708	6.3	6.0	5.7	8.0	6.0	7.3	8.0	6.8
PPG-TF 257	6.3	6.7	5.7	7.0	7.0	7.0	7.7	6.8
RHF	6.0	6.7	7.0	6.0	7.0	7.0	7.7	6.8
DLFPS-TF/3550	6.7	6.7	6.0	7.7	6.0	6.7	7.7	6.8
TITANIUM G-LS (PPG-TF 255)	6.7	6.0	6.7	7.7	6.7	5.3	8.0	6.7
BY-TF-169	6.7	6.3	6.7	7.0	5.7	6.7	8.0	6.7
DLFPS-321/3705	6.3	6.0	7.3	7.3	6.0	6.3	7.7	6.7
DYNAMITE G-LS (PPG-TF 254)	6.3	5.7	7.3	7.0	5.7	7.0	8.0	6.7
NAI-3N2	6.0	5.7	5.7	7.3	7.0	6.7	8.7	6.7
PPG-TF 316	6.0	6.7	6.7	7.3	6.7	6.0	7.7	6.7
PPG-TF 337	6.3	6.3	6.0	6.7	6.7	7.0	8.0	6.7
RH1	6.3	6.3	6.3	7.3	5.3	7.0	8.3	6.7
NT-3	6.7	7.3	6.7	5.3	6.3	7.0	7.3	6.7
ZION (BAR TF 134)	6.0	6.3	7.0	7.0	6.7	6.3	7.3	6.7
PPG-TF 244	6.0	7.7	5.7	7.3	6.3	6.7	7.0	6.7
PPG-TF 306	6.7	6.7	5.7	6.3	6.0	7.3	8.0	6.7
PPG-TF 318	6.3	6.7	6.0	7.0	6.7	6.0	8.0	6.7
DEGAS (LTP-TF-111)	6.0	6.3	6.3	7.0	6.7	6.7	7.7	6.7
K18-WB1	6.7	6.0	6.0	7.0	7.0	6.3	7.3	6.6
JT 517	6.3	6.0	6.0	6.3	7.0	6.3	8.3	6.6
DLFPS-321/3707	6.0	6.3	5.7	6.3	6.7	7.7	7.7	6.6

TABLE 22.
(CONT'D)SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	CT1	IA1	IN1	OK1	ON1	OR1	TN1	MEAN
ESTRENA	6.0	6.3	7.0	5.3	7.0	6.7	8.0	6.6
OKEEFE (LTP-TF-122)	6.3	6.0	6.3	6.3	6.7	7.0	7.7	6.6
RC4	6.7	6.3	6.0	7.0	6.0	6.7	7.7	6.6
TF456	6.0	6.0	6.3	7.0	7.0	6.7	7.3	6.6
PPG-TF 312	6.7	6.0	6.3	6.0	6.7	7.0	7.3	6.6
DLFPS-321/3693	7.0	6.7	5.3	6.7	6.0	6.3	8.0	6.6
DLFPS-321/3695	6.3	5.7	6.7	7.0	6.7	6.0	7.7	6.6
DLFPS-TF/3552	6.0	6.3	5.7	7.0	6.0	7.3	7.7	6.6
NAI-ST5	6.0	6.3	6.0	7.0	7.0	6.3	7.3	6.6
PADRE 2	6.0	6.0	6.3	7.0	5.7	7.0	8.0	6.6
PPG-TF 231	6.3	6.0	6.7	5.3	6.7	6.7	8.3	6.6
AH2	6.3	6.3	6.3	6.7	5.0	7.7	7.3	6.5
FIREHAWK SLT	6.7	6.0	6.0	5.7	6.7	6.7	8.0	6.5
SESCR1	6.0	6.7	5.7	6.7	6.3	6.3	8.0	6.5
BONFIRE (JS DTT)	6.7	6.3	6.7	7.0	5.3	6.7	7.0	6.5
COL-TF-148	6.0	6.3	5.7	7.0	6.0	7.0	7.7	6.5
DLFPS-321/3694	6.7	7.0	6.0	6.3	6.0	6.0	7.7	6.5
GRANDE 3	6.3	6.0	6.0	7.0	6.7	6.0	7.7	6.5
STEALTH (PPG-TF 238)	6.3	5.7	6.0	7.0	6.3	6.7	7.7	6.5
TF445	6.0	6.3	7.0	6.3	6.0	5.7	8.3	6.5
NAI-TUE	6.0	6.0	6.0	7.0	6.3	6.0	8.0	6.5
PARAMOUNT	6.3	6.0	6.0	7.0	6.3	6.0	7.7	6.5
RAPTOR III	6.0	6.0	5.3	7.0	7.0	6.3	7.7	6.5
SETFM3	6.0	6.3	5.3	7.0	6.7	6.0	8.0	6.5
TMT1	6.0	6.0	6.0	7.7	5.3	6.7	7.7	6.5
DLFPS-321/3699	6.0	6.3	6.3	6.7	5.7	6.3	7.7	6.4
DLFPS-321/3706	6.0	6.3	5.3	6.3	6.7	7.0	7.3	6.4
GO-AOMK	6.0	6.3	5.7	7.0	5.3	6.3	8.3	6.4
K18-RS6	6.7	6.0	6.0	6.7	6.0	6.0	7.7	6.4
NAI-ROS4	6.7	5.3	6.3	7.0	5.7	6.7	7.3	6.4
PST-5GLBS	6.0	6.7	6.3	7.3	6.3	5.3	7.0	6.4
FAYETTE	6.0	6.3	6.3	7.0	6.3	6.3	6.7	6.4
RHL2	6.7	6.0	5.3	5.3	5.7	7.3	8.3	6.4
AVENGER III (PPG-TF 308)	6.3	5.3	5.7	6.3	6.3	8.0	6.7	6.4
PST-5DZM	6.0	6.0	6.0	7.0	6.3	5.7	7.7	6.4
PST-5THM	6.0	5.3	6.3	7.3	7.0	5.3	7.3	6.4
RDC	6.0	5.7	6.3	6.3	5.3	7.3	7.7	6.4
SE53D2	6.0	6.0	5.3	7.3	6.3	6.3	7.3	6.4
3B2	6.3	6.7	6.0	7.0	5.7	5.7	7.0	6.3
DLFPS-321/3703	6.3	6.7	5.3	5.7	6.0	7.0	7.3	6.3
RS1	6.0	6.3	6.0	5.7	6.3	6.7	7.3	6.3
3N1	6.0	6.3	6.7	7.0	5.3	6.3	6.7	6.3
ATF1768	6.0	6.7	5.7	7.0	6.7	4.7	7.7	6.3
BULLSEYE	6.7	6.0	5.3	6.3	5.0	6.3	8.3	6.3
KIZZLE (K18-ROE)	6.0	6.0	6.3	7.7	5.3	5.3	7.3	6.3
PST-5BYOB	6.0	6.3	5.3	7.0	5.3	5.7	8.3	6.3
PST-5MCMO	6.0	6.0	6.0	7.0	6.0	5.7	7.3	6.3

TABLE 22.
(CONT'D)

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	CT1	IA1	IN1	OK1	ON1	OR1	TN1	MEAN
PST-5TRN	6.0	5.7	5.7	7.3	6.3	6.0	7.0	6.3
BRAVO 2	6.0	6.7	5.7	6.7	6.0	4.7	8.0	6.2
MOONDANCE GLX	6.0	5.7	6.3	7.0	6.7	5.3	6.7	6.2
NAI-FQZ-17	6.0	7.0	5.3	6.7	6.0	5.7	7.0	6.2
PRO GOLD	6.0	6.0	5.3	7.0	5.3	6.0	8.0	6.2
AST8218LM	6.0	6.3	6.0	6.7	7.0	4.0	7.3	6.2
BGR-TF3	6.0	7.0	5.7	6.7	5.3	5.0	7.7	6.2
LIFEGUARD	6.0	5.3	6.3	7.3	6.0	5.0	7.3	6.2
PST-5GQ	6.0	5.7	6.7	7.0	5.0	6.3	6.7	6.2
RAD-TF131	6.0	6.7	5.0	4.7	7.7	6.3	7.0	6.2
BIRMINGHAM	6.0	7.7	5.3	7.0	5.3	4.0	8.0	6.2
HEMI	6.0	6.3	5.3	5.3	7.0	5.7	7.7	6.2
TANGO	6.0	6.3	6.3	6.7	6.3	4.7	7.0	6.2
AST8118LM	6.0	6.3	4.7	6.3	6.7	5.7	7.3	6.1
DLFPS-321/3679	6.3	6.0	5.7	7.0	6.0	4.7	7.3	6.1
PST-5MINK	6.0	5.7	5.7	6.0	6.3	5.3	8.0	6.1
SE5STAR	6.0	5.3	5.0	7.0	6.3	5.7	7.7	6.1
BAR-FA8230	6.0	6.0	5.0	7.0	6.3	4.7	7.7	6.1
GLX ACED (PST-5DART)	6.0	5.7	6.0	7.0	5.3	5.7	7.0	6.1
LBF	6.0	6.0	5.0	6.3	6.3	5.3	7.7	6.1
SETF104	6.3	5.7	5.0	6.0	6.3	5.7	7.7	6.1
BANDIT	6.3	6.7	4.7	7.0	5.7	5.0	7.0	6.0
MONUMENT (PST-5SQB)	6.0	5.3	6.0	7.0	5.7	5.3	7.0	6.0
PST-5E6	6.0	5.7	5.7	7.0	5.3	6.0	6.7	6.0
A-TF31	6.3	7.3	4.7	4.3	6.0	5.7	8.0	6.0
BAR 9FE MAS	6.0	6.3	4.7	6.0	6.0	6.0	7.0	6.0
COPIOUS TF	6.0	5.7	5.3	6.0	5.7	5.7	7.7	6.0
PST-5DC24	6.3	5.7	5.7	7.0	4.3	5.3	7.7	6.0
RAD-TF105	6.3	5.7	5.0	5.3	6.0	5.7	8.0	6.0
RAD-TF115 (TURBO SS)	6.0	6.7	4.3	2.7	7.0	7.7	7.7	6.0
ATF2116	6.0	6.3	5.7	7.0	4.7	4.7	7.3	6.0
GRAND PRIX (FC15-01P)	6.0	5.3	5.7	7.0	6.3	4.0	7.3	6.0
NATURALLY GREEN	6.3	6.3	5.3	6.0	5.0	5.0	7.7	6.0
SETFM2	6.0	6.3	5.7	6.0	5.3	5.3	7.0	6.0
ESCALADE	6.0	6.3	5.3	6.7	6.3	4.0	6.7	5.9
BAR FA 8228	6.0	6.3	5.3	6.0	5.3	3.3	7.3	5.7
OG-WALK	6.0	5.3	5.0	6.0	5.7	3.7	7.3	5.6
PALOMAR	6.0	6.0	5.0	5.7	5.3	4.0	6.7	5.5
KENTUCKY-31	4.0	5.0	4.0	5.0	6.0	1.0	6.3	4.5
LSD VALUE	0.6	1.4	1.2	1.3	1.7	1.6	1.2	0.5
C.V. (%)	6.3	14.0	12.5	11.9	16.6	16.4	10.1	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 23.

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/									
	CT1	IA1	MI1	NC1	NE1	NJ2	OK1	ON1	TN1	UT1
SESCR1	6.3	6.7	9.0	6.7	7.7	7.7	6.7	7.7	6.7	7.3
DLFPS-321/3705	6.7	6.3	9.0	7.0	8.0	6.7	6.3	7.3	7.7	7.0
SPYDER 2LS (ZRC1)	7.0	6.3	8.7	5.0	7.7	8.3	6.0	8.7	7.3	7.0
AH2	7.0	6.7	9.0	5.7	8.0	8.7	5.7	7.0	7.0	7.3
GO-RH20	7.0	6.7	9.0	6.3	7.3	8.3	6.7	6.3	7.0	7.0
K18-RS6	7.0	7.3	9.0	6.7	7.3	8.7	5.3	6.7	7.3	6.3
TITANIUM G-LS (PPG-TF 255)	6.7	6.7	9.0	7.0	8.0	6.7	6.7	7.0	7.0	7.0
PPG-TF 323	6.7	6.7	9.0	6.0	7.3	6.7	6.7	7.3	7.3	7.7
NAI-ST5	6.3	6.7	9.0	7.3	7.3	7.0	5.7	7.3	7.0	7.7
RAPTOR LS (PPG-TF 336)	6.7	6.3	9.0	5.3	8.0	7.7	7.0	7.3	7.3	6.7
ZION (BAR TF 134)	6.7	6.3	9.0	6.0	7.3	9.0	6.3	7.7	6.7	6.3
BONFIRE (JS DTT)	6.7	6.7	9.0	7.0	8.0	7.3	7.0	6.3	6.7	6.3
DLFPS-321/3707	6.7	7.3	9.0	6.7	8.0	8.0	5.3	6.7	7.0	6.3
DLFPS-321/3708	7.0	7.7	8.7	6.3	8.0	7.0	6.7	6.7	6.7	6.3
PPG-TF 262	7.0	6.3	9.0	5.7	7.7	7.7	6.3	7.7	7.0	6.7
DLFPS-TF/3553	6.7	6.7	9.0	5.3	7.7	7.3	6.3	7.0	7.0	7.7
AH1	7.3	6.3	9.0	6.3	8.0	8.0	5.3	7.7	6.3	6.3
PPG-TF 249	6.7	6.7	9.0	5.0	7.7	8.0	6.3	6.7	7.7	7.0
PPG-TF 318	7.0	7.0	9.0	5.7	7.3	7.0	6.3	7.7	7.3	6.3
RHF	7.0	6.3	9.0	5.3	7.3	8.0	6.0	7.7	7.0	7.0
K18-WB1	6.7	6.0	9.0	5.3	7.3	8.3	6.0	7.3	6.7	7.7
PPG-TF 305	7.0	5.7	9.0	5.7	8.0	7.0	6.7	7.3	7.0	7.0
PPG-TF 306	6.7	7.0	9.0	5.7	7.7	7.3	6.0	7.0	7.3	6.7
RS1	6.7	7.0	9.0	4.7	8.0	7.7	6.0	7.0	7.3	7.0
PPG-TF 244	6.7	6.7	9.0	7.0	7.7	6.7	6.7	6.3	7.3	6.3
PPG-TF 313	7.3	7.7	9.0	3.3	7.3	8.3	5.7	7.7	7.3	6.7
PPG-TF 337	6.7	7.0	9.0	5.3	7.7	7.0	5.7	7.7	7.3	7.0
TF456	6.7	6.0	9.0	6.3	8.0	6.7	6.7	7.3	7.0	6.7
TD2	6.3	7.3	9.0	5.7	7.7	8.3	5.3	7.3	6.3	6.7
BULLSEYE LTZ	7.0	6.7	9.0	5.3	7.3	6.7	6.3	7.3	7.3	7.0
DEGAS (LTP-TF-111)	6.7	6.0	9.0	5.3	8.0	8.0	5.7	7.0	7.3	7.0
FIRECRACKER G-LS (PPG-TF 315)	6.7	6.7	9.0	5.3	7.3	7.0	6.0	7.7	7.0	7.3
PPG-TF 316	7.0	6.0	9.0	5.7	8.0	7.7	6.3	7.3	7.0	6.0
RC4	7.3	6.0	9.0	6.3	7.7	7.0	5.7	7.0	7.3	6.7
RH1	6.3	6.0	9.0	6.7	7.7	7.7	5.7	7.3	7.3	6.3
XANADU (JT 268)	7.0	7.0	9.0	6.7	8.0	5.7	6.0	7.3	6.7	6.7
TF445	6.7	6.3	9.0	6.7	7.7	7.3	6.3	7.0	6.3	6.3
DLFPS-321/3702	6.3	7.3	9.0	4.0	8.0	7.0	6.7	7.0	7.0	7.3
DRAGSTER	6.3	6.3	9.0	5.0	8.0	7.7	6.3	6.7	7.3	7.0
BY-TF-169	6.3	7.3	9.0	4.0	7.7	7.3	6.3	7.3	7.0	7.0
DLFPS-321/3694	7.0	7.0	9.0	4.7	7.7	7.0	5.3	7.3	7.3	7.0
DLFPS-321/3706	6.7	6.0	9.0	4.7	7.3	7.7	6.3	7.3	7.3	7.0
DYNAMITE G-LS (PPG-TF 254)	7.0	6.0	8.7	4.0	8.0	7.7	6.3	7.3	7.3	7.0
5LSS	7.0	6.3	9.0	4.0	7.3	7.3	5.3	7.7	7.7	7.7
COL-TF-148	6.7	6.3	9.0	5.7	7.3	7.3	6.0	6.7	7.0	7.3
JT 233	6.3	6.7	9.0	6.7	7.3	7.0	5.0	7.7	7.3	6.3

TABLE 23.
(CONT'D)FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/									
	CT1	IA1	MI1	NC1	NE1	NJ2	OK1	ON1	TN1	UT1
PPG-TF 320	6.3	7.0	9.0	5.7	7.7	6.3	6.7	7.3	7.0	6.3
PST-5GLBS	6.3	6.7	9.0	6.7	7.7	5.3	6.7	8.0	6.7	6.3
PST-5MCMO	6.3	7.0	9.0	6.7	7.3	6.3	6.7	7.0	6.7	6.3
STEALTH (PPG-TF 238)	6.7	6.7	9.0	5.7	7.7	6.7	6.0	7.7	7.0	6.3
DLFPS-321/3693	7.0	6.0	8.7	4.7	8.0	7.3	5.7	7.3	7.3	7.0
DLFPS-321/3695	7.0	6.7	9.0	5.3	7.3	6.7	6.7	6.7	7.0	6.7
KIZZLE (K18-ROE)	6.3	7.3	9.0	6.0	7.7	5.0	6.7	7.0	7.0	7.0
RH3	6.3	6.0	9.0	5.7	7.3	7.3	6.3	7.0	7.0	7.0
3B2	6.7	6.3	9.0	5.3	7.7	5.7	7.0	7.3	7.0	6.7
PST-5TRN	6.3	6.7	9.0	6.7	7.7	6.0	6.3	7.3	7.0	5.7
DLFPS-TF/3550	6.7	5.7	8.7	6.0	7.7	6.0	6.7	7.3	7.0	7.0
OKEEFE (LTP-TF-122)	6.7	6.7	9.0	3.7	8.0	7.7	6.7	7.3	7.0	6.0
RAD-TF105	7.0	7.0	9.0	5.0	7.3	7.7	5.7	7.0	6.7	6.3
GRANDE 3	6.3	6.3	9.0	4.7	7.3	7.3	6.7	7.7	6.7	6.3
PPG-TF 267	7.3	5.7	9.0	5.7	7.7	6.7	5.7	7.0	7.0	6.7
PPG-TF 312	6.7	6.0	9.0	3.7	7.7	8.0	4.7	7.7	7.7	7.3
PPG-TF 338	6.3	7.0	9.0	6.3	8.0	6.0	6.7	6.7	6.3	6.0
TMT1	6.3	6.3	9.0	5.3	8.0	5.7	6.3	7.0	7.7	6.7
AVENGER III (PPG-TF 308)	6.7	6.7	9.0	5.7	7.7	6.3	6.0	6.3	7.3	6.3
DLFPS-321/3699	6.7	6.7	9.0	5.7	7.7	6.7	6.0	7.0	6.3	6.3
DLFPS-TF/3552	6.3	6.7	9.0	5.7	7.0	6.7	6.3	7.0	7.0	6.3
GLX ACED (PST-5DART)	6.3	6.3	9.0	6.3	7.7	6.3	6.3	7.0	6.7	6.0
K18-NSE	6.3	6.0	9.0	3.0	8.0	8.7	6.0	7.3	7.0	6.7
PPG-TF 231	6.7	6.7	9.0	4.3	7.3	7.0	6.0	7.7	7.3	6.0
LIFEGUARD	6.7	5.7	9.0	6.0	7.3	5.7	7.0	6.3	7.7	6.3
DLFPS-321/3696	6.3	7.0	9.0	4.7	8.0	5.0	6.7	7.7	7.0	6.3
HEMI	7.0	6.7	9.0	4.3	7.7	6.7	5.7	7.3	6.7	6.7
NAI-TUE	6.3	6.3	9.0	6.7	7.3	5.7	5.7	7.0	7.3	6.3
RDC	7.0	6.3	9.0	4.0	8.0	6.3	7.0	7.0	7.0	6.0
RHL2	6.7	7.0	9.0	3.7	7.0	7.7	6.0	6.7	7.0	7.0
SETFM3	6.3	7.7	9.0	6.0	7.7	4.7	6.0	7.3	7.0	6.0
DLFPS-321/3701	6.7	6.7	8.3	4.0	7.7	6.7	6.3	7.7	6.7	6.7
NAI-3N2	6.3	6.3	9.0	4.7	7.7	5.7	6.3	7.3	6.7	7.0
NAI-ROS4	6.3	5.7	8.3	5.3	8.0	7.0	6.0	7.0	6.7	6.7
PARAMOUNT	6.3	6.0	9.0	4.7	7.3	6.7	6.0	7.0	7.0	7.0
PPG-TF 257	6.7	6.7	9.0	4.0	7.3	6.3	6.3	7.0	6.7	7.0
PST-5E6	6.3	6.7	9.0	6.3	7.3	6.0	5.3	7.0	6.7	6.3
DLFPS-321/3703	6.3	6.7	9.0	4.7	7.3	5.3	6.0	7.0	7.0	7.3
PST-5GQ	6.0	6.7	9.0	5.7	7.7	5.3	6.3	7.0	7.0	6.0
SE53D2	6.7	7.0	9.0	6.3	7.3	5.0	6.0	7.0	7.0	5.3
DLFPS-321/3679	6.7	6.3	9.0	4.3	7.7	5.7	6.0	7.0	7.7	6.3
NT-3	6.7	6.3	8.7	5.3	7.7	5.7	5.7	7.3	7.0	6.3
ESTRENA	6.3	6.7	9.0	3.7	7.3	6.0	6.0	7.7	6.7	7.0
RAPTOR III	6.0	6.7	9.0	4.7	7.7	6.0	6.0	7.0	6.7	6.7
SETF104	6.7	6.7	8.7	4.7	7.3	6.3	5.7	6.7	7.0	6.3
BULLSEYE	6.7	7.0	9.0	5.0	7.0	4.7	6.3	7.0	7.0	6.0
FIREHAWK SLT	6.3	6.7	9.0	4.0	7.7	5.3	5.7	7.3	7.0	6.7

TABLE 23.
(CONT'D)

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/										MEAN
	CT1	IA1	MI1	NC1	NE1	NJ2	OK1	ON1	TN1	UT1	
LBF	6.7	6.7	9.0	5.3	8.0	4.7	6.0	6.3	7.0	6.0	6.6
MONUMENT (PST-5SQB)	6.3	6.3	9.0	6.7	7.0	4.3	6.3	7.3	6.7	5.7	6.6
SE5STAR	6.3	6.7	9.0	5.7	7.3	4.0	6.3	7.0	7.7	5.7	6.6
3N1	6.7	6.3	9.0	5.3	7.0	5.3	5.7	7.3	6.7	6.3	6.6
PST-5THM	6.3	6.7	9.0	6.3	7.3	3.7	6.3	7.0	7.0	6.0	6.6
GO-AOMK	6.3	6.7	9.0	5.7	7.0	5.3	5.3	6.7	7.3	6.0	6.5
BAR-FA8230	6.3	7.0	9.0	4.7	7.3	5.0	6.7	7.3	6.7	5.3	6.5
PADRE 2	6.3	6.3	9.0	5.3	7.0	5.3	6.0	6.7	7.0	6.3	6.5
A-TF31	7.0	7.0	9.0	5.0	7.3	4.7	5.0	7.3	7.0	5.7	6.5
ATF2116	6.3	6.7	9.0	6.0	7.3	3.3	6.7	6.3	7.3	6.0	6.5
PRO GOLD	6.0	6.0	9.0	5.3	7.7	4.3	6.0	7.0	7.7	6.0	6.5
PST-5BYOB	6.0	6.3	9.0	6.7	7.3	4.7	6.3	5.3	7.3	6.0	6.5
PST-5DZM	6.3	6.3	9.0	4.7	7.3	4.7	6.3	7.3	7.0	6.0	6.5
BANDIT	6.0	6.7	9.0	5.0	7.7	4.3	6.3	7.3	6.7	5.7	6.5
ESCALADE	6.0	6.3	9.0	5.7	7.0	4.0	6.0	7.3	7.3	5.7	6.4
ATF1768	6.3	6.3	9.0	5.7	7.3	4.3	5.7	6.7	7.0	6.0	6.4
JT 517	6.3	6.3	9.0	5.3	7.3	4.0	5.7	7.3	7.0	6.0	6.4
BRAVO 2	6.0	6.3	9.0	5.7	7.0	4.3	5.3	7.3	7.0	6.0	6.4
BIRMINGHAM	6.0	7.0	9.0	5.3	7.0	4.0	5.7	7.0	7.3	5.7	6.4
PST-5DC24	6.3	6.7	9.0	5.3	7.0	3.7	6.3	5.7	7.3	6.7	6.4
RAD-TF131	6.3	6.7	9.0	3.0	7.3	6.0	4.3	7.7	7.0	6.3	6.4
TANGO	6.3	6.0	9.0	5.0	7.7	4.0	5.3	7.3	7.0	6.0	6.4
BAR 9FE MAS	6.3	6.0	8.7	5.0	7.3	5.0	5.7	7.0	6.7	6.0	6.4
NAI-FQZ-17	6.0	7.3	9.0	5.3	7.7	3.3	5.3	7.3	6.7	5.7	6.4
PST-5MINK	6.3	6.7	9.0	4.3	7.7	3.7	6.0	7.0	6.7	6.3	6.4
AST8118LM	6.3	6.3	9.0	5.0	7.7	3.3	6.7	6.7	6.7	6.0	6.4
AST8218LM	6.0	7.0	8.7	4.7	7.7	4.7	5.3	7.0	6.7	5.7	6.3
COPIOUS TF	6.3	6.7	9.0	4.0	7.7	4.0	6.0	6.7	7.0	6.0	6.3
FAYETTE	6.3	5.3	9.0	5.3	7.0	3.7	7.0	7.0	6.7	6.0	6.3
GRAND PRIX (FC15-01P)	6.0	6.3	9.0	6.0	7.3	4.7	5.7	6.3	6.3	5.7	6.3
MOONDANCE GLX	6.3	6.3	9.0	5.7	7.3	3.7	6.3	7.3	6.7	4.7	6.3
SETFM2	6.7	6.7	8.7	4.3	7.3	4.7	6.0	6.3	7.0	5.3	6.3
RAD-TF115 (TURBO SS)	6.3	7.3	8.7	3.3	7.7	6.3	3.0	7.7	6.7	6.0	6.3
BAR FA 8228	6.0	6.3	8.7	5.0	7.3	3.3	5.3	7.3	7.7	5.7	6.3
NATURALLY GREEN	6.0	6.3	8.7	4.7	8.0	3.7	6.3	6.7	6.7	5.3	6.2
OG-WALK	6.0	6.7	9.0	5.0	7.3	4.0	5.0	7.0	7.0	5.3	6.2
BGR-TF3	6.0	6.7	9.0	4.3	7.3	3.3	6.3	6.0	7.3	5.7	6.2
PALOMAR	6.0	6.7	8.7	4.3	7.0	3.0	5.0	6.7	7.0	5.3	6.0
KENTUCKY-31	5.0	6.7	8.3	4.7	6.7	1.0	4.0	6.7	6.3	4.3	5.4
LSD VALUE	0.9	1.2	0.4	1.6	0.9	1.8	1.5	1.3	1.0	1.1	0.4
C.V. (%)	8.6	11.2	2.9	19.1	7.8	18.2	15.0	11.1	8.8	10.3	11.2

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

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

TABLE 24. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	OK1	ON1	PA2	TN1	MEAN
AH1	94.7	98.7	95.0	99.0	94.0	96.3
DEGAS (LTP-TF-111)	93.3	97.7	97.7	99.0	90.7	95.7
PPG-TF 244	93.7	97.7	91.7	99.0	93.3	95.1
ZION (BAR TF 134)	92.3	96.0	96.3	99.0	90.7	94.9
RH1	90.0	99.0	96.3	99.0	89.7	94.8
SE53D2	87.0	99.0	96.3	99.0	91.3	94.5
FAYETTE	90.7	97.7	96.3	99.0	88.7	94.5
PST-5MCMO	88.3	99.0	95.0	99.0	91.0	94.5
PPG-TF 320	88.3	99.0	95.0	99.0	90.3	94.3
PST-5GLBS	88.0	99.0	96.3	99.0	89.3	94.3
PRO GOLD	89.3	99.0	94.7	99.0	89.0	94.2
AH2	88.7	97.7	94.7	99.0	90.7	94.1
BRAVO 2	88.3	98.7	93.0	99.0	91.7	94.1
NAI-ST5	87.0	97.7	95.0	99.0	92.0	94.1
PPG-TF 316	87.0	95.7	95.0	99.0	93.3	94.0
ESCALADE	92.7	97.7	93.3	99.0	87.0	93.9
PPG-TF 305	86.7	97.0	93.3	99.0	93.7	93.9
PPG-TF 249	86.0	97.3	96.0	99.0	91.3	93.9
SPYDER 2LS (ZRC1)	87.7	96.0	97.7	99.0	89.0	93.9
K18-WB1	92.3	96.0	94.7	99.0	87.3	93.9
KIZZLE (K18-ROE)	88.3	97.7	93.3	99.0	91.0	93.9
NAI-ROS4	87.3	98.7	96.0	98.3	89.0	93.9
TF456	87.0	98.3	93.3	99.0	91.7	93.9
NAI-3N2	83.0	98.7	97.7	98.7	91.0	93.8
OKEEFE (LTP-TF-122)	90.7	95.7	93.3	99.0	90.3	93.8
PPG-TF 338	86.7	98.3	96.3	99.0	88.7	93.8
SESCR1	92.7	94.7	94.7	99.0	88.0	93.8
TD2	90.7	94.7	96.3	98.7	88.0	93.7
RH3	83.7	97.7	97.7	99.0	90.3	93.7
BIRMINGHAM	86.0	99.0	96.3	99.0	87.3	93.5
GO-RH20	86.3	97.3	96.3	99.0	88.7	93.5
TF445	87.7	96.0	93.3	99.0	91.7	93.5
PPG-TF 257	91.3	94.7	95.0	98.7	87.7	93.5
DLFPS-321/3705	88.7	96.0	95.0	99.0	88.3	93.4
COL-TF-148	92.3	97.3	90.0	99.0	88.3	93.4
DLFPS-321/3701	87.0	95.3	96.3	99.0	89.3	93.4
KENTUCKY-31	90.7	99.0	91.7	99.0	86.3	93.3
PPG-TF 318	87.3	94.7	93.3	99.0	92.3	93.3
DLFPS-321/3696	88.3	93.7	95.0	99.0	90.3	93.3
DYNAMITE G-LS (PPG-TF 254)	91.3	93.0	91.7	99.0	91.3	93.3
JT 233	82.3	96.0	96.3	99.0	92.7	93.3
LBF	87.7	97.3	96.3	99.0	86.0	93.3
PPG-TF 323	85.0	94.3	97.7	99.0	90.3	93.3
BULLSEYE LTZ	84.3	97.3	93.0	99.0	92.3	93.2
RAPTOR III	87.0	95.3	93.3	99.0	91.3	93.2
DLFPS-TF/3550	88.7	97.3	93.3	99.0	87.3	93.1
LIFEGUARD	87.3	99.0	91.7	98.7	88.7	93.1

TABLE 24.
(CONT'D)

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	OK1	ON1	PA2	TN1	MEAN
BAR 9FE MAS	91.0	94.3	93.3	99.0	87.7	93.1
BY-TF-169	86.0	98.3	91.3	99.0	90.7	93.1
5LSS	90.7	93.0	96.3	98.7	86.3	93.0
DLFPS-TF/3553	86.7	95.3	95.0	99.0	89.0	93.0
K18-NSE	95.3	89.0	93.0	99.0	88.7	93.0
GLX ACED (PST-5DART)	79.7	99.0	95.0	99.0	92.0	92.9
RAPTOR LS (PPG-TF 336)	87.0	93.0	95.0	99.0	90.3	92.9
XANADU (JT 268)	83.0	94.7	96.3	99.0	91.3	92.9
DLFPS-321/3695	88.0	97.7	95.0	99.0	84.3	92.8
PST-5BYOB	84.7	99.0	93.3	99.0	88.0	92.8
PST-5GQ	80.0	99.0	96.3	99.0	89.7	92.8
RHF	87.7	94.0	93.3	99.0	90.0	92.8
DLFPS-TF/3552	90.7	97.7	91.7	99.0	84.7	92.7
K18-RS6	88.0	93.0	93.0	99.0	90.7	92.7
SETFM3	83.3	97.3	95.0	99.0	89.0	92.7
STEALTH (PPG-TF 238)	82.3	98.3	94.7	99.0	89.3	92.7
3N1	83.7	98.7	91.7	98.7	90.7	92.7
BAR-FA8230	83.0	99.0	94.7	99.0	87.7	92.7
RC4	86.0	98.7	88.3	98.7	91.7	92.7
BANDIT	82.7	98.3	91.7	99.0	91.3	92.6
DLFPS-321/3702	84.3	93.3	94.7	99.0	91.3	92.5
DLFPS-321/3679	79.3	98.7	95.0	99.0	90.0	92.4
PADRE 2	90.0	94.7	91.7	99.0	86.7	92.4
PST-5TRN	83.3	99.0	93.3	99.0	87.3	92.4
TANGO	83.7	97.7	93.0	99.0	88.0	92.3
TITANIUM G-LS (PPG-TF 255)	81.3	98.7	93.3	99.0	88.7	92.2
PST-5E6	85.3	98.7	88.3	98.7	89.3	92.1
AST8118LM	81.7	93.0	95.0	99.0	91.3	92.0
NATURALLY GREEN	83.7	93.7	94.7	99.0	88.3	91.9
DLFPS-321/3699	81.0	97.7	93.3	99.0	88.0	91.8
DLFPS-321/3707	85.7	88.3	94.7	99.0	91.3	91.8
OG-WALK	83.3	97.3	90.0	98.7	89.7	91.8
BGR-TF3	87.3	95.0	93.3	99.0	84.0	91.7
AST8218LM	80.7	99.0	91.7	99.0	88.0	91.7
PPG-TF 306	82.7	92.7	93.3	99.0	90.7	91.7
FIRECRACKER G-LS (PPG-TF 315)	82.7	99.0	88.3	99.0	89.3	91.7
RS1	92.0	88.3	93.3	99.0	85.7	91.7
3B2	87.7	99.0	85.0	99.0	87.3	91.6
DLFPS-321/3706	89.3	92.7	86.7	99.0	90.3	91.6
GRANDE 3	86.0	91.7	96.0	99.0	85.3	91.6
MOONDANCE GLX	78.7	99.0	93.3	99.0	88.0	91.6
PARAMOUNT	84.7	97.7	90.0	99.0	86.3	91.5
BAR FA 8228	83.7	99.0	93.3	99.0	82.0	91.4
JT 517	77.7	96.0	96.3	99.0	88.0	91.4
PST-5THM	77.7	99.0	93.3	99.0	88.0	91.4
TMT1	87.0	97.7	88.3	98.7	85.0	91.3
DLFPS-321/3708	77.7	98.0	91.7	99.0	90.0	91.3

TABLE 24. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2020 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	OK1	ON1	PA2	TN1	MEAN
SE5STAR	75.7	98.7	93.3	99.0	89.7	91.3
PPG-TF 262	88.0	93.3	86.3	99.0	89.7	91.3
RDC	90.3	92.3	88.0	98.7	86.7	91.2
GRAND PRIX (FC15-01P)	76.3	99.0	91.7	99.0	88.7	90.9
NAI-TUE	75.3	95.7	91.7	98.7	93.3	90.9
PPG-TF 312	93.3	77.7	95.0	99.0	89.3	90.9
DRAGSTER	91.0	81.3	93.3	99.0	89.0	90.7
SETF104	83.3	86.7	95.0	99.0	89.3	90.7
DLFPS-321/3694	93.3	76.7	97.7	98.7	86.7	90.6
NAI-FQZ-17	81.3	89.0	93.0	99.0	90.7	90.6
ATF1768	79.7	99.0	93.3	98.7	81.7	90.5
AVENGER III (PPG-TF 308)	81.3	90.0	91.3	99.0	90.7	90.5
MONUMENT (PST-5SQB)	76.0	99.0	91.7	98.7	87.0	90.5
BONFIRE (JS DTT)	83.3	98.3	91.7	98.7	80.0	90.4
PPG-TF 267	81.0	91.7	91.7	99.0	88.3	90.3
NT-3	90.7	78.3	96.0	98.7	87.7	90.3
DLFPS-321/3693	89.7	80.0	95.0	99.0	87.3	90.2
PST-5DZM	72.7	97.3	91.7	99.0	90.3	90.2
BULLSEYE	76.7	97.0	86.7	99.0	91.3	90.1
PPG-TF 313	91.7	70.0	99.0	99.0	90.3	90.0
ATF2116	83.0	99.0	88.3	98.7	80.0	89.8
COPIOUS TF	80.0	92.0	88.3	99.0	89.7	89.8
PPG-TF 337	81.3	93.0	96.3	96.0	82.3	89.8
DLFPS-321/3703	83.3	81.7	93.0	99.0	90.3	89.5
ESTRENA	90.7	71.7	97.7	99.0	87.7	89.3
PALOMAR	78.3	96.0	86.7	99.0	85.3	89.1
SETFM2	76.3	94.7	85.0	98.7	88.3	88.6
HEMI	80.0	76.7	96.3	99.0	90.7	88.5
PST-5MINK	72.3	94.0	85.0	98.7	92.0	88.4
PPG-TF 231	76.0	79.3	96.3	99.0	89.3	88.0
PST-5DC24	74.0	97.3	80.0	99.0	89.0	87.9
FIREHAWK SLT	80.7	66.7	96.3	99.0	91.7	86.9
RAD-TF105	75.0	76.7	91.7	99.0	91.3	86.7
GO-AOMK	69.0	97.3	78.3	99.0	89.0	86.5
RHL2	85.7	63.3	93.3	99.0	89.3	86.1
A-TF31	85.7	63.3	88.3	99.0	88.7	85.0
RAD-TF131	74.3	58.3	95.0	99.0	87.7	82.9
RAD-TF115 (TURBO SS)	68.7	20.0	93.3	96.0	88.3	73.3
LSD VALUE	11.3	13.5	8.4	1.1	6.2	4.1
C.V. (%)	8.2	9.0	5.6	0.7	4.3	6.2

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

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

TABLE 25. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	OK1	ON1	TN1	MEAN
KENTUCKY-31	98.7	99.0	99.0	91.3	97.0
MOONDANCE GLX	98.3	98.3	99.0	92.0	96.9
KIZZLE (K18-ROE)	97.3	96.3	99.0	93.7	96.6
PARAMOUNT	97.0	97.7	99.0	91.7	96.3
FAYETTE	98.3	97.3	99.0	90.7	96.3
3B2	98.0	96.3	99.0	91.3	96.2
NATURALLY GREEN	98.0	93.0	99.0	93.7	95.9
LIFEGUARD	98.3	92.7	99.0	93.3	95.8
BGR-TF3	98.7	93.0	99.0	92.3	95.8
HEMI	97.0	93.0	99.0	92.3	95.3
PST-5BYOB	98.3	94.7	99.0	89.0	95.3
PST-5DZM	97.7	92.3	99.0	92.0	95.3
PPG-TF 318	98.3	90.0	99.0	92.7	95.0
ESCALADE	97.3	93.0	99.0	90.0	94.8
BAR FA 8228	98.0	91.3	99.0	90.7	94.8
SE53D2	97.3	90.3	99.0	92.3	94.8
FIREHAWK SLT	98.0	89.0	99.0	92.7	94.7
AST8118LM	94.7	91.7	99.0	93.0	94.6
OG-WALK	94.7	95.7	99.0	89.0	94.6
DLFPS-321/3696	98.0	88.3	99.0	93.0	94.6
RAPTOR LS (PPG-TF 336)	97.0	89.0	99.0	93.0	94.5
MONUMENT (PST-5SQB)	95.7	91.7	99.0	91.0	94.3
PST-5MCMO	97.7	89.0	99.0	91.7	94.3
DRAGSTER	97.7	89.3	99.0	91.3	94.3
SESCR1	98.3	88.0	99.0	92.0	94.3
DLFPS-321/3702	98.7	88.7	99.0	90.3	94.2
DLFPS-TF/3550	98.0	86.7	99.0	92.7	94.1
PALOMAR	92.0	95.7	99.0	89.0	93.9
SETFM2	96.7	91.7	94.3	93.0	93.9
DLFPS-321/3693	97.0	85.7	99.0	93.7	93.8
DLFPS-321/3695	96.0	89.0	99.0	91.3	93.8
SE5STAR	98.3	89.3	99.0	88.7	93.8
OKEEFE (LTP-TF-122)	96.3	86.7	99.0	92.7	93.7
SETF104	94.0	89.3	99.0	92.3	93.7
PST-5GLBS	96.7	86.7	99.0	92.0	93.6
ATF1768	98.0	84.3	99.0	93.0	93.6
BULLSEYE	96.3	91.0	96.0	90.7	93.5
NAI-ROS4	98.0	84.0	99.0	93.0	93.5
DLFPS-TF/3553	97.3	84.3	99.0	93.3	93.5
PPG-TF 257	98.0	82.7	99.0	94.0	93.4
GRANDE 3	98.3	83.3	99.0	93.0	93.4
XANADU (JT 268)	98.3	85.0	99.0	91.3	93.4
PPG-TF 306	97.0	85.0	99.0	92.3	93.3
DLFPS-321/3699	98.0	85.0	97.7	92.0	93.2
PST-5MINK	96.7	86.0	99.0	91.0	93.2
RAPTOR III	98.7	81.7	99.0	93.3	93.2
DLFPS-321/3706	96.7	82.7	99.0	94.0	93.1

TABLE 25.
(CONT'D)

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	OK1	ON1	TN1	MEAN
TF445	94.7	86.7	99.0	91.7	93.0
ESTRENA	91.3	90.7	99.0	91.0	93.0
PPG-TF 249	96.7	84.3	99.0	92.0	93.0
DLFPS-TF/3552	98.7	81.7	99.0	92.3	92.9
PPG-TF 338	97.0	81.7	99.0	94.0	92.9
NAI-FQZ-17	98.0	83.3	99.0	91.3	92.9
ATF2116	96.0	90.0	92.7	92.7	92.8
DLFPS-321/3701	97.7	83.3	99.0	91.3	92.8
BULLSEYE LTZ	97.7	81.7	99.0	92.7	92.8
LBF	97.3	83.0	99.0	91.7	92.8
PPG-TF 244	98.0	81.7	99.0	92.0	92.7
TMT1	99.0	81.0	99.0	91.7	92.7
PST-5THM	97.0	81.7	99.0	92.7	92.6
DEGAS (LTP-TF-111)	98.3	80.0	99.0	93.0	92.6
NAI-TUE	98.3	81.3	99.0	91.7	92.6
PPG-TF 262	98.3	79.3	99.0	93.7	92.6
PADRE 2	96.7	82.3	99.0	92.0	92.5
PPG-TF 305	98.3	81.7	99.0	91.0	92.5
PST-5GQ	98.0	83.3	99.0	89.7	92.5
SETFM3	95.0	85.0	99.0	91.0	92.5
JT 517	98.0	79.7	99.0	93.0	92.4
PPG-TF 323	96.7	81.7	99.0	92.0	92.3
ZION (BAR TF 134)	96.7	81.0	99.0	92.7	92.3
BY-TF-169	92.3	85.0	99.0	93.0	92.3
PRO GOLD	96.7	81.3	99.0	92.3	92.3
3N1	96.3	82.0	99.0	91.7	92.3
TF456	97.3	80.0	99.0	92.7	92.3
DYNAMITE G-LS (PPG-TF 254)	97.7	77.3	99.0	94.3	92.1
STEALTH (PPG-TF 238)	97.3	80.0	99.0	92.0	92.1
BAR-FA8230	98.0	78.3	99.0	92.7	92.0
PPG-TF 316	97.7	78.3	99.0	93.0	92.0
BRAVO 2	97.3	79.3	99.0	92.0	91.9
AST8218LM	95.7	82.7	99.0	90.0	91.8
PPG-TF 231	99.0	76.7	99.0	92.7	91.8
TD2	96.7	78.3	99.0	93.3	91.8
AVENGER III (PPG-TF 308)	97.7	78.3	99.0	92.0	91.8
DLFPS-321/3679	98.3	76.7	99.0	93.0	91.8
FIRECRACKER G-LS (PPG-TF 315)	99.0	76.7	99.0	92.3	91.8
PPG-TF 320	98.0	78.3	99.0	91.7	91.8
NAI-ST5	95.0	80.7	99.0	92.0	91.7
GLX ACED (PST-5DART)	97.3	76.7	99.0	93.3	91.6
DLFPS-321/3705	97.7	75.7	99.0	93.3	91.4
RAD-TF105	98.7	76.7	99.0	91.3	91.4
NT-3	98.7	75.0	99.0	92.7	91.3
DLFPS-321/3703	94.0	80.0	99.0	92.3	91.3
PST-5DC24	96.3	84.3	92.7	92.0	91.3
DLFPS-321/3708	96.0	76.7	99.0	93.3	91.3

TABLE 25.
(CONT'D)

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	OK1	ON1	TN1	MEAN
5LSS	98.3	73.3	99.0	94.3	91.3
BANDIT	97.3	76.7	99.0	91.7	91.2
GRAND PRIX (FC15-01P)	96.7	76.3	99.0	92.7	91.2
NAI-3N2	97.7	76.7	99.0	91.3	91.2
PST-5TRN	96.0	76.7	99.0	93.0	91.2
COL-TF-148	98.7	73.3	99.0	93.3	91.1
BAR 9FE MAS	96.7	78.3	99.0	89.3	90.8
PST-5E6	98.0	73.3	99.0	93.0	90.8
RHF	96.7	76.7	99.0	90.7	90.8
AH2	98.0	71.7	99.0	94.0	90.7
GO-RH20	97.7	73.3	99.0	92.3	90.6
RDC	97.7	73.3	99.0	92.3	90.6
SPYDER 2LS (ZRC1)	98.0	73.3	99.0	92.0	90.6
BONFIRE (JS DTT)	98.7	71.7	99.0	92.7	90.5
TITANIUM G-LS (PPG-TF 255)	94.0	75.0	99.0	94.0	90.5
AH1	98.7	71.7	99.0	92.3	90.4
PPG-TF 337	97.7	71.7	99.0	93.0	90.3
RHL2	97.3	71.7	99.0	93.3	90.3
RS1	97.7	73.3	97.7	91.7	90.1
PPG-TF 313	95.7	71.7	99.0	93.7	90.0
BIRMINGHAM	98.7	73.3	99.0	88.3	89.8
DLFPS-321/3694	98.0	68.3	99.0	93.7	89.8
TANGO	98.3	69.0	99.0	92.7	89.8
PPG-TF 267	99.0	68.3	99.0	92.3	89.7
RH3	92.3	75.0	99.0	92.3	89.7
GO-AOMK	96.3	70.0	99.0	93.0	89.6
COPIOUS TF	95.3	73.3	99.0	89.7	89.3
JT 233	96.0	70.0	99.0	92.0	89.3
RH1	97.0	67.7	99.0	92.3	89.0
K18-NSE	95.7	68.3	99.0	92.3	88.8
K18-WB1	96.3	65.0	99.0	94.0	88.6
RC4	98.3	63.3	99.0	92.0	88.2
DLFPS-321/3707	98.0	60.0	99.0	93.0	87.5
A-TF31	98.3	61.7	99.0	89.3	87.1
PPG-TF 312	97.0	61.7	99.0	90.0	86.9
RAD-TF131	98.3	53.3	99.0	93.0	85.9
K18-RS6	93.7	56.7	99.0	93.3	85.7
RAD-TF115 (TURBO SS)	97.7	33.3	99.0	91.0	80.3
LSD VALUE	4.2	25.4	2.6	3.4	6.5
C.V. (%)	2.7	19.5	1.6	2.3	8.8

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

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

TABLE 26.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1	OK1	ON1	PA2	TN1	MEAN
MONUMENT (PST-5SQB)	95.7	99.0	99	99.0	96.7	97.9
PRO GOLD	95.7	99.0	99	99.0	96.3	97.8
SE5STAR	96.3	99.0	99	99.0	95.3	97.7
LIFEGUARD	97.3	99.0	99	98.3	94.7	97.7
BULLSEYE LTZ	95.3	99.0	99	99.0	95.7	97.6
KENTUCKY-31	94.3	99.0	99	99.0	96.7	97.6
RDC	96.0	99.0	99	99.0	94.7	97.5
BGR-TF3	95.7	99.0	99	98.7	95.0	97.5
PPG-TF 249	95.7	98.3	99	99.0	95.3	97.5
FAYETTE	95.3	99.0	99	99.0	94.3	97.3
TF456	95.7	99.0	99	98.7	94.0	97.3
DLFPS-321/3705	95.3	98.3	99	99.0	94.7	97.3
PST-5BYOB	94.3	99.0	99	99.0	95.0	97.3
RAPTOR LS (PPG-TF 336)	94.3	99.0	99	98.7	95.3	97.3
DLFPS-321/3699	96.0	99.0	99	99.0	93.0	97.2
PST-5GLBS	94.0	99.0	99	99.0	95.0	97.2
PST-5THM	94.3	99.0	99	99.0	94.7	97.2
AH1	97.3	97.0	99	98.7	93.7	97.1
PPG-TF 305	94.0	98.3	99	99.0	95.3	97.1
GRANDE 3	96.7	96.0	99	98.7	95.0	97.1
SESCRI	92.3	99.0	99	99.0	96.0	97.1
DLFPS-TF/3550	96.7	96.0	99	99.0	94.3	97.0
SETFM2	93.0	99.0	99	99.0	95.0	97.0
GO-RH20	95.0	97.7	99	99.0	94.0	96.9
PARAMOUNT	94.0	97.7	99	98.7	95.3	96.9
PST-5E6	95.7	97.7	99	99.0	93.3	96.9
SE53D2	94.7	96.3	99	98.7	96.0	96.9
5LSS	97.3	96.3	99	95.7	96.3	96.9
DLFPS-321/3701	93.0	98.3	99	99.0	95.3	96.9
TITANIUM G-LS (PPG-TF 255)	95.3	96.0	99	99.0	95.3	96.9
BANDIT	93.3	99.0	99	99.0	94.0	96.9
BONFIRE (JS DTT)	96.0	99.0	99	99.0	91.3	96.9
ATF1768	94.7	97.7	99	99.0	93.7	96.8
PST-5TRN	95.7	99.0	99	98.7	91.7	96.8
HEMI	95.7	95.3	99	98.7	95.0	96.7
LBF	94.0	99.0	99	99.0	92.7	96.7
MOONDANCE GLX	94.3	99.0	99	98.7	92.7	96.7
SPYDER 2LS (ZRC1)	97.0	96.0	99	99.0	92.7	96.7
TF445	93.7	98.3	99	99.0	93.7	96.7
ATF2116	92.3	99.0	99	99.0	94.3	96.7
GRAND PRIX (FC15-01P)	92.7	99.0	99	99.0	93.7	96.7
BAR-FA8230	94.0	99.0	99	99.0	92.3	96.7
NAI-ROS4	96.7	96.0	99	98.7	92.7	96.6
PPG-TF 316	92.7	97.0	99	98.7	95.7	96.6
PST-5DZM	92.7	97.7	99	98.7	95.0	96.6
DLFPS-321/3693	96.0	94.3	99	99.0	94.7	96.6
DLFPS-321/3694	94.3	96.0	99	98.7	95.0	96.6

TABLE 26.
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/						
NAME	IA1	OK1	ON1	PA2	TN1	MEAN
OKEEFE (LTP-TF-122)	94.0	96.0	99	98.7	95.0	96.5
PADRE 2	94.7	94.3	99	98.7	96.0	96.5
SETF104	96.7	96.0	99	99.0	92.0	96.5
XANADU (JT 268)	92.3	97.7	99	98.7	95.0	96.5
3N1	90.7	99.0	99	98.7	94.7	96.4
DLFPS-321/3695	91.3	97.7	99	98.3	95.7	96.4
FIREHAWK SLT	95.0	94.3	99	99.0	94.7	96.4
BAR 9FE MAS	93.3	96.0	99	98.7	94.7	96.3
DRAGSTER	89.7	99.0	99	99.0	95.0	96.3
NATURALLY GREEN	91.0	99.0	99	99.0	93.7	96.3
RAD-TF105	93.3	96.0	99	99.0	94.3	96.3
AST8118LM	90.7	99.0	99	99.0	93.7	96.3
COL-TF-148	96.3	93.0	99	98.7	94.3	96.3
DLFPS-321/3696	92.3	96.0	99	98.7	95.3	96.3
DLFPS-TF/3553	92.0	96.0	99	99.0	95.3	96.3
ESCALADE	90.3	99.0	99	99.0	94.0	96.3
PPG-TF 320	93.3	96.0	99	99.0	94.0	96.3
RS1	89.7	99.0	99	98.7	94.7	96.2
K18-NSE	97.7	91.3	99	99.0	94.0	96.2
PPG-TF 244	91.3	97.7	99	98.7	94.3	96.2
PST-5MINK	92.0	96.0	99	99.0	94.7	96.1
DEGAS (LTP-TF-111)	94.3	94.3	99	98.7	94.3	96.1
JT 517	93.0	92.7	99	99.0	96.7	96.1
OG-WALK	90.0	97.7	99	99.0	94.7	96.1
NAI-ST5	92.3	96.0	99	99.0	94.0	96.1
PPG-TF 338	92.7	99.0	99	98.7	90.7	96.0
NAI-3N2	92.7	95.0	99	99.0	94.3	96.0
TMT1	95.7	92.7	99	98.7	93.7	95.9
DYNAMITE G-LS (PPG-TF 254)	95.7	91.3	99	99.0	94.7	95.9
DLFPS-321/3703	93.0	94.7	99	99.0	93.7	95.9
PPG-TF 323	91.7	94.7	99	99.0	94.7	95.8
DLFPS-321/3679	89.3	99.0	99	99.0	92.7	95.8
DLFPS-TF/3552	88.0	97.0	99	98.7	96.3	95.8
NT-3	94.0	93.0	99	99.0	94.0	95.8
PPG-TF 257	89.7	99.0	99	98.3	93.0	95.8
PPG-TF 318	89.3	96.0	99	99.0	95.7	95.8
PST-5DC24	92.0	94.3	99	99.0	94.7	95.8
PST-5GQ	93.3	99.0	99	99.0	88.7	95.8
PST-5MCMO	88.7	99.0	99	98.7	93.3	95.7
RHF	93.0	91.7	99	99.0	96.0	95.7
NAI-TUE	90.7	96.0	99	98.7	94.0	95.7
FIRECRACKER G-LS (PPG-TF 315)	94.3	91.3	99	99.0	94.7	95.7
PALOMAR	87.0	99.0	99	99.0	94.3	95.7
PPG-TF 231	95.0	91.7	99	98.3	94.3	95.7
RH1	94.7	92.7	99	99.0	92.7	95.6
ZION (BAR TF 134)	93.3	94.7	99	99.0	92.0	95.6
GLX ACED (PST-5DART)	90.0	97.7	99	99.0	92.0	95.5

TABLE 26.
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/						
NAME	IA1	OK1	ON1	PA2	TN1	MEAN
K18-WB1	92.0	94.3	99	99.0	93.3	95.5
DLFPS-321/3702	85.7	99.0	99	98.7	95.0	95.5
PPG-TF 267	94.0	94.3	99	98.7	91.3	95.5
RAPTOR III	91.0	97.7	99	98.7	91.0	95.5
3B2	91.7	99.0	99	99.0	88.3	95.4
COPIOUS TF	88.7	96.0	99	99.0	94.3	95.4
RC4	90.7	94.7	99	99.0	93.7	95.4
STEALTH (PPG-TF 238)	88.0	94.7	99	99.0	96.3	95.4
ESTRENA	93.3	96.0	99	98.7	89.7	95.3
TANGO	87.3	97.7	99	99.0	93.7	95.3
JT 233	92.3	91.7	99	99.0	94.3	95.3
AST8218LM	88.0	97.7	99	98.7	92.7	95.2
A-TF31	90.7	93.0	99	99.0	94.0	95.1
BAR FA 8228	92.7	99.0	99	99.0	86.0	95.1
BIRMINGHAM	86.0	98.3	99	98.7	93.7	95.1
SETFM3	86.3	97.0	99	99.0	94.3	95.1
BULLSEYE	84.3	99.0	99	99.0	94.0	95.1
DLFPS-321/3706	86.0	98.3	99	99.0	93.0	95.1
BRAVO 2	84.0	97.7	99	99.0	95.3	95.0
AH2	88.7	92.7	99	99.0	94.3	94.7
PPG-TF 262	95.7	86.3	99	98.7	94.0	94.7
RH3	87.3	96.0	99	99.0	92.3	94.7
AVENGER III (PPG-TF 308)	83.7	96.0	99	98.7	96.0	94.7
GO-AOMK	85.0	94.3	99	98.7	95.0	94.4
PPG-TF 306	85.7	96.3	99	98.7	92.3	94.4
BY-TF-169	80.3	99.0	99	99.0	94.3	94.3
RHL2	90.0	88.0	99	99.0	94.3	94.1
KIZZLE (K18-ROE)	79.7	99.0	99	99.0	93.3	94.0
RAD-TF131	95.3	81.7	99	98.3	94.0	93.7
K18-RS6	88.0	86.3	99	99.0	93.7	93.2
PPG-TF 337	89.3	94.3	99	95.7	87.7	93.2
DLFPS-321/3708	74.0	98.3	99	99.0	95.3	93.1
NAI-FQZ-17	81.7	91.3	99	98.7	94.7	93.1
PPG-TF 312	86.3	89.7	99	99.0	90.7	92.9
TD2	82.7	90.0	99	98.7	94.3	92.9
DLFPS-321/3707	83.3	89.3	99	99.0	92.3	92.6
PPG-TF 313	80.3	88.3	99	99.0	94.0	92.1
RAD-TF115 (TURBO SS)	88.7	60.0	99	96.0	94.3	87.6
LSD VALUE	11.1	10.3	0	1.3	6.2	3.3
C.V. (%)	7.5	6.7	0	0.8	4.1	4.7

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 27.

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	MS1	OK1	MEAN
GRANDE 3	6.7	6.0	6.3
3B2	6.0	6.0	6.0
3N1	6.0	6.0	6.0
A-TF31	6.0	6.0	6.0
AH1	6.0	6.0	6.0
AH2	6.0	6.0	6.0
AVENGER III (PPG-TF 308)	6.0	6.0	6.0
BANDIT	6.0	6.0	6.0
BAR-FA8230	6.0	6.0	6.0
BONFIRE (JS DTT)	6.0	6.0	6.0
BULLSEYE	6.0	6.0	6.0
BULLSEYE LTZ	6.0	6.0	6.0
BY-TF-169	6.0	6.0	6.0
COL-TF-148	6.0	6.0	6.0
DEGAS (LTP-TF-111)	6.0	6.0	6.0
DLFPS-321/3679	6.0	6.0	6.0
DLFPS-321/3693	6.0	6.0	6.0
DLFPS-321/3694	6.0	6.0	6.0
DLFPS-321/3695	6.0	6.0	6.0
DLFPS-321/3696	6.0	6.0	6.0
DLFPS-321/3699	6.0	6.0	6.0
DLFPS-321/3701	6.0	6.0	6.0
DLFPS-321/3702	6.0	6.0	6.0
DLFPS-321/3703	6.0	6.0	6.0
DLFPS-321/3705	6.0	6.0	6.0
DLFPS-321/3706	6.0	6.0	6.0
DLFPS-321/3707	6.0	6.0	6.0
DLFPS-TF/3550	6.0	6.0	6.0
DLFPS-TF/3552	6.0	6.0	6.0
DLFPS-TF/3553	6.0	6.0	6.0
DRAGSTER	6.0	6.0	6.0
FIRECRACKER G-LS (PPG-TF 315)	6.0	6.0	6.0
GLX ACED (PST-5DART)	6.0	6.0	6.0
GRAND PRIX (FC15-01P)	6.0	6.0	6.0
JT 517	6.0	6.0	6.0
K18-NSE	6.0	6.0	6.0
K18-WB1	6.0	6.0	6.0
KIZZLE (K18-ROE)	6.0	6.0	6.0
LIFEGUARD	6.0	6.0	6.0
MONUMENT (PST-5SQB)	6.0	6.0	6.0
NAI-ROS4	6.0	6.0	6.0
NAI-ST5	6.0	6.0	6.0
OKEEFE (LTP-TF-122)	6.0	6.0	6.0
PADRE 2	6.0	6.0	6.0
PARAMOUNT	6.0	6.0	6.0
PPG-TF 231	6.0	6.0	6.0
PPG-TF 244	6.0	6.0	6.0

TABLE 27.
(CONT'D)

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	MS1	OK1	MEAN
PPG-TF 249	6.0	6.0	6.0
PPG-TF 257	6.0	6.0	6.0
PPG-TF 262	6.0	6.0	6.0
PPG-TF 267	6.0	6.0	6.0
PPG-TF 306	6.0	6.0	6.0
PPG-TF 318	6.0	6.0	6.0
PPG-TF 337	6.0	6.0	6.0
PST-5BYOB	6.0	6.0	6.0
PST-5GLBS	6.0	6.0	6.0
PST-5THM	6.0	6.0	6.0
PST-5TRN	6.0	6.0	6.0
RC4	6.0	6.0	6.0
RH1	6.0	6.0	6.0
RHL2	6.0	6.0	6.0
RS1	6.0	6.0	6.0
SESCR1	6.0	6.0	6.0
SETFM3	6.0	6.0	6.0
SPYDER 2LS (ZRC1)	6.0	6.0	6.0
TF445	6.0	6.0	6.0
TF456	6.0	6.0	6.0
TMT1	6.0	6.0	6.0
XANADU (JT 268)	6.0	6.0	6.0
ZION (BAR TF 134)	6.0	6.0	6.0
ATF1768	5.7	6.0	5.8
ATF2116	5.7	6.0	5.8
BIRMINGHAM	5.7	6.0	5.8
COPIOUS TF	5.7	6.0	5.8
DYNAMITE G-LS (PPG-TF 254)	6.0	5.7	5.8
ESCALADE	6.0	5.7	5.8
ESTRENA	6.0	5.7	5.8
FAYETTE	6.0	5.7	5.8
FIREHAWK SLT	6.0	5.7	5.8
GO-RH20	5.7	6.0	5.8
JT 233	5.7	6.0	5.8
LBF	5.7	6.0	5.8
MOONDANCE GLX	6.0	5.7	5.8
NAI-3N2	6.0	5.7	5.8
PALOMAR	6.0	5.7	5.8
PPG-TF 312	6.0	5.7	5.8
PPG-TF 313	6.0	5.7	5.8
PPG-TF 316	5.7	6.0	5.8
PPG-TF 320	6.0	5.7	5.8
PPG-TF 323	6.0	5.7	5.8
PPG-TF 338	6.0	5.7	5.8
PRO GOLD	6.0	5.7	5.8
PST-5E6	6.0	5.7	5.8
PST-5GQ	6.0	5.7	5.8

TABLE 27.
(CONT'D)

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	MS1	OK1	MEAN
PST-5MCMO	6.0	5.7	5.8
PST-5MINK	6.0	5.7	5.8
RAPTOR LS (PPG-TF 336)	5.7	6.0	5.8
RHF	6.0	5.7	5.8
SETF104	6.0	5.7	5.8
STEALTH (PPG-TF 238)	6.0	5.7	5.8
TD2	6.0	5.7	5.8
TITANIUM G-LS (PPG-TF 255)	5.7	6.0	5.8
5LSS	5.7	5.7	5.7
AST8118LM	5.7	5.7	5.7
AST8218LM	5.7	5.7	5.7
BAR FA 8228	5.7	5.7	5.7
BGR-TF3	5.7	5.7	5.7
K18-RS6	5.7	5.7	5.7
OG-WALK	5.7	5.7	5.7
PPG-TF 305	5.7	5.7	5.7
SETFM2	5.7	5.7	5.7
TANGO	5.7	5.7	5.7
BAR 9FE MAS	6.0	5.3	5.7
NAI-FQZ-17	5.3	6.0	5.7
NAI-TUE	5.3	6.0	5.7
NATURALLY GREEN	6.0	5.3	5.7
NT-3	5.3	6.0	5.7
RAPTOR III	6.0	5.3	5.7
RH3	5.3	6.0	5.7
SE53D2	6.0	5.3	5.7
BRAVO 2	5.0	6.0	5.5
DLFPS-321/3708	5.0	6.0	5.5
HEMI	5.7	5.3	5.5
PST-5DC24	5.7	5.3	5.5
PST-5DZM	5.3	5.7	5.5
RAD-TF105	5.3	5.7	5.5
RDC	5.3	5.7	5.5
SE5STAR	5.7	5.3	5.5
GO-AOMK	5.3	5.3	5.3
RAD-TF115 (TURBO SS)	5.3	5.3	5.3
RAD-TF131	5.0	5.3	5.2
KENTUCKY-31	5.7	4.0	4.8
LSD VALUE	0.5	0.5	0.4
C.V. (%)	5.0	5.8	5.4

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 28.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	CT1	IN1	MO1	NC1	NJ2	OK1	MEAN
DYNAMITE G-LS (PPG-TF 254)	7.3	6.3	8.3	7.3	8.7	6.7	7.4
PPG-TF 323	8.7	6.0	7.7	6.3	8.7	7.0	7.4
RH3	8.0	7.3	7.7	6.3	7.7	6.7	7.3
DLFPS-321/3705	7.7	7.0	7.0	6.3	8.7	6.7	7.2
PPG-TF 316	7.7	6.3	7.0	7.0	7.7	7.7	7.2
STEALTH (PPG-TF 238)	7.7	6.0	7.3	6.3	8.3	7.0	7.1
DRAGSTER	8.0	6.7	6.3	6.3	7.7	7.3	7.1
PPG-TF 262	8.0	6.0	8.0	5.3	8.0	7.0	7.1
RHL2	7.3	6.3	7.0	6.3	8.3	7.0	7.1
TMT1	7.7	6.3	6.7	6.3	7.7	7.3	7.0
K18-NSE	8.0	5.7	7.0	7.0	7.7	6.3	6.9
SPYDER 2LS (ZRC1)	7.3	6.0	8.0	6.7	8.0	5.7	6.9
DEGAS (LTP-TF-111)	7.7	6.7	6.0	6.3	8.0	6.7	6.9
PPG-TF 320	8.0	7.3	6.0	5.7	8.3	6.0	6.9
GRANDE 3	7.7	6.3	6.7	5.0	8.0	7.3	6.8
ZION (BAR TF 134)	7.7	6.0	7.3	5.0	7.7	7.3	6.8
PADRE 2	7.7	6.0	7.3	6.3	6.0	7.3	6.8
DLFPS-321/3695	7.3	4.7	7.0	5.7	7.7	8.0	6.7
PPG-TF 244	7.3	5.3	6.7	6.0	7.7	7.3	6.7
RAPTOR III	8.0	7.0	5.3	5.0	7.7	7.3	6.7
XANADU (JT 268)	7.7	5.7	6.0	5.7	8.0	7.3	6.7
SESCR1	8.0	6.3	6.0	5.0	7.3	7.7	6.7
GLX ACED (PST-5DART)	7.0	6.7	6.0	5.7	8.0	6.7	6.7
RDC	7.7	6.0	6.7	5.7	7.3	6.7	6.7
AVENGER III (PPG-TF 308)	7.7	6.7	5.7	5.7	7.0	7.0	6.6
3B2	6.7	6.3	7.3	5.0	6.3	8.0	6.6
BY-TF-169	7.0	6.3	5.3	6.0	7.7	7.3	6.6
K18-RS6	7.3	6.3	5.3	6.0	8.7	6.0	6.6
PPG-TF 313	8.0	6.3	6.3	5.0	8.0	5.7	6.6
DLFPS-321/3701	7.3	4.7	7.0	6.0	7.0	7.0	6.5
ESTRENA	7.3	5.3	4.7	5.7	7.3	8.7	6.5
MOONDANCE GLX	7.3	7.0	4.7	5.3	5.7	9.0	6.5
RHF	8.7	5.3	5.0	6.0	7.7	6.3	6.5
TITANIUM G-LS (PPG-TF 255)	8.3	6.3	4.0	6.3	7.3	6.3	6.4
GO-RH20	7.3	6.0	3.3	6.3	8.3	7.3	6.4
PPG-TF 231	7.3	5.0	6.7	5.3	7.3	7.0	6.4
PPG-TF 337	7.7	4.3	5.3	7.3	7.3	6.7	6.4
LIFEGUARD	6.7	6.0	5.7	5.3	6.7	8.0	6.4
PPG-TF 312	7.0	6.7	4.0	6.3	8.3	6.0	6.4
RAPTOR LS (PPG-TF 336)	8.3	6.0	3.7	5.3	7.7	7.3	6.4
TD2	8.0	5.7	4.3	5.7	7.7	7.0	6.4
TF445	5.7	5.3	7.3	5.7	7.7	6.7	6.4
PPG-TF 305	7.0	6.0	5.0	5.3	7.3	7.7	6.4
PPG-TF 338	8.0	5.7	4.3	6.3	7.3	6.7	6.4
BONFIRE (JS DTT)	7.7	7.0	3.0	6.7	6.7	7.0	6.3
BULLSEYE	6.0	6.7	7.7	4.3	6.0	7.3	6.3

TABLE 28.
(CONT'D)BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	CT1	IN1	MO1	NC1	NJ2	OK1	MEAN
DLFPS-321/3702	7.3	5.7	5.3	5.0	7.3	7.3	6.3
FIREHAWK SLT	7.7	5.0	5.7	5.7	7.3	6.7	6.3
KIZZLE (K18-ROE)	7.7	4.7	6.3	5.3	6.3	7.7	6.3
OKEEFE (LTP-TF-122)	8.3	5.7	4.0	6.7	7.0	6.3	6.3
PPG-TF 249	7.0	5.7	6.3	4.3	7.7	7.0	6.3
TF456	7.7	4.7	6.7	6.0	7.3	5.7	6.3
NAI-ST5	6.0	5.3	5.3	6.0	8.3	6.7	6.3
PARAMOUNT	7.7	7.0	2.3	5.3	6.7	8.7	6.3
SE53D2	7.3	6.3	5.3	4.0	7.0	7.7	6.3
AH2	7.7	6.3	3.0	5.3	8.7	6.3	6.2
3N1	7.3	5.0	7.3	5.7	5.0	7.0	6.2
DLFPS-321/3693	6.3	5.0	5.7	5.3	7.3	7.7	6.2
NAI-TUE	8.0	6.0	4.3	5.7	7.3	6.0	6.2
RH1	6.0	6.0	5.3	6.3	7.0	6.7	6.2
DLFPS-321/3706	8.0	6.7	3.0	4.3	7.7	7.3	6.2
HEMI	6.0	8.0	6.0	3.3	7.0	6.7	6.2
JT 233	7.3	6.0	4.3	5.0	7.3	7.0	6.2
BULLSEYE LTZ	7.0	5.7	4.3	5.7	7.0	7.0	6.1
PST-5BYOB	7.7	5.0	6.7	4.7	4.7	8.0	6.1
BIRMINGHAM	7.7	5.0	8.0	4.0	5.3	6.7	6.1
COL-TF-148	7.3	5.0	4.3	5.3	8.3	6.3	6.1
DLFPS-321/3696	7.3	4.0	5.7	5.7	6.3	7.7	6.1
DLFPS-321/3707	8.0	4.3	5.0	5.3	7.3	6.7	6.1
DLFPS-TF/3552	7.0	5.0	4.0	6.0	8.0	6.3	6.1
FIRECRACKER G-LS (PPG-TF 315)	8.0	6.0	2.0	5.0	8.3	7.0	6.1
DLFPS-321/3699	7.0	6.7	3.3	4.3	7.3	7.7	6.1
PST-5E6	6.7	6.7	4.3	5.3	7.3	6.0	6.1
DLFPS-321/3694	8.0	4.7	4.3	5.3	7.7	6.0	6.0
DLFPS-TF/3553	7.7	5.3	3.0	5.3	7.7	7.0	6.0
NAI-ROS4	8.0	5.3	3.7	4.7	7.3	7.0	6.0
PPG-TF 257	6.7	5.3	4.7	5.3	6.7	7.3	6.0
PPG-TF 306	5.0	5.0	5.0	6.3	7.7	7.0	6.0
PST-5GQ	6.7	4.3	5.7	5.7	7.0	6.7	6.0
DLFPS-321/3703	4.7	6.3	5.3	5.7	7.0	6.7	5.9
KENTUCKY-31	4.7	8.3	5.3	4.0	5.0	8.3	5.9
RS1	7.7	5.3	5.0	4.0	7.0	6.7	5.9
DLFPS-TF/3550	7.3	5.0	3.0	5.0	7.7	7.3	5.9
PST-5THM	6.3	6.0	4.7	5.7	6.0	6.7	5.9
ATF1768	5.3	6.3	5.0	5.3	6.3	7.0	5.9
NT-3	5.3	5.7	4.3	6.3	6.7	7.0	5.9
AH1	5.7	5.3	5.3	4.3	8.0	6.3	5.8
DLFPS-321/3708	7.3	6.0	3.7	4.0	7.3	6.7	5.8
K18-WB1	7.0	5.7	4.7	5.3	7.0	5.3	5.8
PST-5MCMO	6.7	4.3	4.3	5.3	7.3	7.0	5.8
NAI-FQZ-17	7.7	4.7	7.0	4.0	4.0	7.3	5.8
SETFM3	7.7	5.0	5.0	4.0	5.7	7.3	5.8
BAR-FA8230	8.0	5.3	6.3	3.0	6.0	6.0	5.8

TABLE 28.
(CONT'D)

BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	CT1	IN1	MO1	NC1	NJ2	OK1	MEAN
FAYETTE	6.7	6.3	4.3	4.3	5.0	8.0	5.8
GO-AOMK	6.3	6.3	4.7	4.3	6.7	6.3	5.8
SE5STAR	7.0	5.7	4.3	5.0	5.3	7.3	5.8
PPG-TF 318	6.0	5.0	3.3	5.0	7.7	7.3	5.7
RC4	7.7	5.7	3.0	5.0	7.7	5.3	5.7
TANGO	7.0	4.7	5.7	4.7	5.7	6.7	5.7
PPG-TF 267	6.7	4.7	4.7	4.3	7.0	6.7	5.7
PRO GOLD	6.3	5.3	4.7	4.3	6.3	7.0	5.7
BAR 9FE MAS	6.7	4.7	6.0	4.7	5.0	6.7	5.6
PST-5TRN	7.0	5.7	2.0	5.0	7.0	7.0	5.6
5LSS	6.0	5.3	4.3	5.3	6.7	6.0	5.6
PST-5GLBS	6.0	5.3	3.0	5.0	7.3	7.0	5.6
BRAVO 2	7.3	5.3	2.7	5.0	5.0	8.0	5.6
DLFPS-321/3679	6.0	4.0	4.3	4.0	8.0	7.0	5.6
SETF104	8.0	4.3	2.3	4.0	7.0	7.7	5.6
ATF2116	7.3	4.0	4.0	5.0	5.7	7.0	5.5
PST-5MINK	5.0	5.3	5.7	4.0	5.3	7.7	5.5
PST-5DZM	5.7	5.3	3.3	5.0	5.7	7.7	5.4
JT 517	7.0	5.3	4.7	3.3	5.0	7.3	5.4
MONUMENT (PST-5SQB)	6.0	5.3	1.3	5.3	6.7	7.7	5.4
BAR FA 8228	7.7	4.3	4.0	3.3	5.0	7.7	5.3
NAI-3N2	7.3	5.0	1.7	5.0	6.3	6.7	5.3
OG-WALK	6.0	4.3	6.3	2.3	5.0	7.7	5.3
ESCALADE	5.0	5.0	5.3	2.7	5.0	8.3	5.2
NATURALLY GREEN	5.7	4.3	4.3	3.3	5.7	8.0	5.2
PST-5DC24	5.0	4.3	4.3	4.7	5.7	7.3	5.2
RAD-TF105	5.7	4.0	3.0	5.0	7.3	6.0	5.2
PALOMAR	6.3	4.3	3.7	3.3	4.7	8.3	5.1
AST8218LM	6.7	4.3	5.0	4.0	3.3	7.0	5.1
LBF	4.3	4.0	4.0	4.0	5.7	7.3	4.9
COPIOUS TF	7.0	3.7	1.0	4.0	6.0	7.3	4.8
SETFM2	5.7	5.0	1.7	3.7	5.3	7.7	4.8
BGR-TF3	5.3	4.0	4.3	3.0	4.0	8.0	4.8
A-TF31	5.7	4.3	1.3	4.3	5.7	7.0	4.7
BANDIT	5.7	4.3	3.7	3.3	4.3	6.3	4.6
AST8118LM	5.7	3.0	2.0	4.0	4.7	8.0	4.6
GRAND PRIX (FC15-01P)	4.7	4.7	2.0	3.3	5.0	7.0	4.4
RAD-TF115 (TURBO SS)	6.0	3.7	2.0	3.3	5.3	5.0	4.2
RAD-TF131	6.0	4.0	1.0	3.3	5.7	5.3	4.2
LSD VALUE	2.3	2.1	4.0	1.9	1.6	2.0	1.0
C.V. (%)	20.1	23.8	50.4	23.5	14.3	17.9	25.0

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 29.

FALL COLOR (SEPTEMBER) RATINGS OF TALL FESCUE CULTIVARS
2020 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/											
NAME	IA1	OK1	MEAN	NAME	IA1	OK1	MEAN	NAME	IA1	OK1	MEAN
JT 517	6.0	6.3	6.2	JT 233	5.0	6.0	5.5	XANADU (JT 268)	4.7	6.0	5.3
RAD-TF131	6.3	6.0	6.2	KIZZLE (K18-ROE)	5.0	6.0	5.5	DLFPS-321/3699	4.3	6.3	5.3
TMT1	6.0	6.3	6.2	OKEEFE (LTP-TF-122)	5.3	5.7	5.5	AVENGER III (PPG-TF 308)	4.3	6.0	5.2
AST8218LM	5.0	7.0	6.0	PADRE 2	5.0	6.0	5.5	BONFIRE (JS DTT)	4.3	6.0	5.2
BY-TF-169	6.0	6.0	6.0	PARAMOUNT	5.0	6.0	5.5	BULLSEYE LTZ	4.3	6.0	5.2
DLFPS-TF/3550	6.0	6.0	6.0	PPG-TF 244	4.7	6.3	5.5	DLFPS-321/3695	4.3	6.0	5.2
A-TF31	5.0	6.7	5.8	PPG-TF 249	5.0	6.0	5.5	DLFPS-321/3696	4.3	6.0	5.2
ATF1768	5.7	6.0	5.8	PPG-TF 262	5.0	6.0	5.5	DYNAMITE G-LS (PPG-TF 254)	4.3	6.0	5.2
DLFPS-321/3701	5.7	6.0	5.8	PPG-TF 267	5.0	6.0	5.5	ESCALADE	4.3	6.0	5.2
LBF	5.7	6.0	5.8	PPG-TF 313	4.7	6.3	5.5	FIREHAWK SLT	4.3	6.0	5.2
NAI-FQZ-17	5.7	6.0	5.8	PPG-TF 316	5.0	6.0	5.5	GLX ACED (PST-5DART)	4.3	6.0	5.2
OG-WALK	5.7	6.0	5.8	PST-5GQ	5.0	6.0	5.5	GO-RH20	4.3	6.0	5.2
PST-5MINK	5.7	6.0	5.8	RC4	5.0	6.0	5.5	K18-NSE	5.0	5.3	5.2
RAPTOR III	5.7	6.0	5.8	RS1	5.0	6.0	5.5	MONUMENT (PST-5SQB)	4.3	6.0	5.2
GRANDE 3	5.3	6.3	5.8	SETFM2	5.0	6.0	5.5	MOONDANCE GLX	4.3	6.0	5.2
DLFPS-321/3679	4.7	6.7	5.7	TANGO	5.0	6.0	5.5	NAI-3N2	4.3	6.0	5.2
ATF2116	5.0	6.3	5.7	TITANIUM G-LS (PPG-TF 255)	4.7	6.3	5.5	NAI-ROS4	4.3	6.0	5.2
BAR 9FE MAS	5.3	6.0	5.7	3B2	4.7	6.0	5.3	NT-3	4.3	6.0	5.2
BGR-TF3	5.3	6.0	5.7	3N1	4.7	6.0	5.3	PALOMAR	4.3	6.0	5.2
BRAVO 2	5.3	6.0	5.7	5LSS	5.7	5.0	5.3	PPG-TF 231	4.3	6.0	5.2
DLFPS-321/3694	5.3	6.0	5.7	AH1	4.7	6.0	5.3	PPG-TF 306	4.3	6.0	5.2
DLFPS-321/3702	5.0	6.3	5.7	AH2	4.7	6.0	5.3	PPG-TF 320	4.3	6.0	5.2
DLFPS-321/3706	5.3	6.0	5.7	BAR-FA8230	4.7	6.0	5.3	PPG-TF 337	4.3	6.0	5.2
DLFPS-321/3708	5.3	6.0	5.7	BIRMINGHAM	4.7	6.0	5.3	PST-5BYOB	4.3	6.0	5.2
FAYETTE	5.0	6.3	5.7	BULLSEYE	4.7	6.0	5.3	PST-5DZM	4.3	6.0	5.2
NATURALLY GREEN	5.3	6.0	5.7	DEGAS (LTP-TF-111)	4.7	6.0	5.3	RH1	4.3	6.0	5.2
PPG-TF 305	5.0	6.3	5.7	DLFPS-321/3693	4.7	6.0	5.3	RHL2	4.3	6.0	5.2
PPG-TF 338	5.3	6.0	5.7	DLFPS-321/3705	4.7	6.0	5.3	SESCR1	4.3	6.0	5.2
PST-5DC24	5.3	6.0	5.7	DRAGSTER	4.7	6.0	5.3	SETF104	4.3	6.0	5.2
RAD-TF115 (TURBO SS)	5.3	6.0	5.7	K18-RS6	4.7	6.0	5.3	SPYDER 2LS (ZRC1)	4.3	6.0	5.2
RAPTOR LS (PPG-TF 336)	5.3	6.0	5.7	K18-WB1	4.7	6.0	5.3	TF456	4.3	6.0	5.2
SETFM3	5.3	6.0	5.7	NAI-ST5	4.7	6.0	5.3	GRAND PRIX (FC15-01P)	4.0	6.0	5.0
ZION (BAR TF 134)	5.3	6.0	5.7	NAI-TUE	4.7	6.0	5.3	HEMI	4.0	6.0	5.0
AST8118LM	5.0	6.0	5.5	PPG-TF 257	4.7	6.0	5.3	LIFEGUARD	4.0	6.0	5.0
BANDIT	5.0	6.0	5.5	PPG-TF 312	4.7	6.0	5.3	PPG-TF 318	4.0	6.0	5.0
BAR FA 8228	5.0	6.0	5.5	PPG-TF 323	4.7	6.0	5.3	PST-5E6	4.3	5.7	5.0
COL-TF-148	5.0	6.0	5.5	PST-5GLBS	4.7	6.0	5.3	PST-5THM	4.0	6.0	5.0
COPIOUS TF	4.7	6.3	5.5	PST-5MCMO	4.7	6.0	5.3	PST-5TRN	4.0	6.0	5.0
DLFPS-321/3703	4.7	6.3	5.5	RAD-TF105	5.0	5.7	5.3	SE53D2	4.0	6.0	5.0
DLFPS-321/3707	5.0	6.0	5.5	RDC	4.7	6.0	5.3	SE5STAR	4.0	6.0	5.0
DLFPS-TF/3552	5.0	6.0	5.5	RH3	4.7	6.0	5.3	PRO GOLD	4.3	5.3	4.8
DLFPS-TF/3553	4.7	6.3	5.5	RHF	4.7	6.0	5.3	KENTUCKY-31	3.7	4.0	3.8
ESTRENA	5.0	6.0	5.5	STEALTH (PPG-TF 238)	4.7	6.0	5.3				
FIRECRACKER G-LS (PPG-TF 315)	5.0	6.0	5.5	TD2	4.7	6.0	5.3	LSO VALUE	1.4	0.4	0.7
GO-AOMK	5.0	6.0	5.5	TF445	4.7	6.0	5.3	C.V. (%)	18.1	4.1	11.8

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

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

TABLE 30.

FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	IA1	MI1	OK1	MEAN	NAME	IA1	MI1	OK1	MEAN
AST8218LM	6.7	7.3	7.0	7.0	DLFPS-321/3694	5.3	7.3	6.0	6.2
DLFPS-321/3708	7.7	7.0	6.3	7.0	PPG-TF 337	5.3	7.3	6.0	6.2
AST8118LM	6.7	7.3	6.7	6.9	PST-5MCMO	6.3	6.3	6.0	6.2
BANDIT	6.3	7.7	6.3	6.8	TITANIUM G-LS (PPG-TF 255)	5.3	7.0	6.3	6.2
NAI-FQZ-17	7.3	6.7	6.3	6.8	XANADU (JT 268)	5.3	7.3	6.0	6.2
RAD-TF115 (TURBO SS)	7.0	7.3	6.0	6.8	ZION (BAR TF 134)	5.3	7.3	6.0	6.2
SETFM3	7.0	7.0	6.3	6.8	BIRMINGHAM	5.7	6.7	6.0	6.1
BRAVO 2	7.0	6.7	6.3	6.7	DLFPS-321/3706	6.0	6.7	5.7	6.1
GO-AOMK	6.7	7.0	6.3	6.7	PPG-TF 338	5.7	6.7	6.0	6.1
SETFM2	6.0	7.7	6.3	6.7	RH3	5.7	6.7	6.0	6.1
TANGO	7.0	7.0	6.0	6.7	BAR 9FE MAS	6.0	6.3	6.0	6.1
BY-TF-169	6.7	7.0	6.0	6.6	DLFPS-321/3696	5.3	7.0	6.0	6.1
DLFPS-321/3707	6.7	7.0	6.0	6.6	DLFPS-321/3699	5.0	7.0	6.3	6.1
JT 233	6.7	7.0	6.0	6.6	GLX ACED (PST-5DART)	6.0	6.3	6.0	6.1
TD2	6.7	7.0	6.0	6.6	GRAND PRIX (FC15-01P)	5.3	7.0	6.0	6.1
DLFPS-321/3679	6.3	7.0	6.3	6.6	OG-WALK	6.0	6.3	6.0	6.1
3N1	6.0	7.3	6.0	6.4	PPG-TF 249	5.0	7.3	6.0	6.1
ATF2116	6.0	7.0	6.3	6.4	PPG-TF 257	5.3	7.0	6.0	6.1
COPIOUS TF	6.3	6.7	6.3	6.4	PPG-TF 267	5.3	7.0	6.0	6.1
DLFPS-321/3701	6.0	7.3	6.0	6.4	PPG-TF 305	5.0	7.0	6.3	6.1
DLFPS-321/3702	6.3	7.0	6.0	6.4	RS1	5.3	7.0	6.0	6.1
DLFPS-TF/3553	6.3	7.0	6.0	6.4	SESCR1	5.0	7.3	6.0	6.1
PPG-TF 306	6.3	7.0	6.0	6.4	BAR FA 8228	5.3	6.7	6.0	6.0
A-TF31	6.3	6.3	6.3	6.3	BULLSEYE LTZ	4.7	7.0	6.3	6.0
AH2	5.7	7.3	6.0	6.3	DLFPS-321/3693	4.7	7.3	6.0	6.0
ATF1768	5.7	7.0	6.3	6.3	DLFPS-321/3705	5.3	7.0	5.7	6.0
AVENGER III (PPG-TF 308)	6.3	6.7	6.0	6.3	DLFPS-TF/3550	5.0	7.0	6.0	6.0
BULLSEYE	5.7	7.3	6.0	6.3	DRAGSTER	5.3	6.7	6.0	6.0
DLFPS-TF/3552	6.3	6.7	6.0	6.3	FIRECRACKER G-LS (PPG-TF 315)	4.7	7.3	6.0	6.0
JT 517	5.7	7.0	6.3	6.3	GO-RH20	4.7	7.3	6.0	6.0
KIZZLE (K18-ROE)	6.0	7.0	6.0	6.3	K18-RS6	5.7	6.7	5.7	6.0
LBF	6.0	7.0	6.0	6.3	K18-WB1	4.7	7.3	6.0	6.0
PPG-TF 244	5.7	7.3	6.0	6.3	NAI-TUE	5.3	6.7	6.0	6.0
PPG-TF 313	6.3	6.7	6.0	6.3	NT-3	5.3	6.7	6.0	6.0
PPG-TF 323	6.0	7.0	6.0	6.3	PADRE 2	5.3	6.7	6.0	6.0
3B2	5.7	7.0	6.0	6.2	PARAMOUNT	5.3	6.7	6.0	6.0
BGR-TF3	5.7	7.0	6.0	6.2	PPG-TF 262	5.0	7.0	6.0	6.0
DLFPS-321/3695	6.0	6.7	6.0	6.2	PPG-TF 312	5.7	6.7	5.7	6.0
DLFPS-321/3703	5.7	6.7	6.3	6.2	PPG-TF 318	5.3	6.7	6.0	6.0
NATURALLY GREEN	6.0	6.7	6.0	6.2	PST-5GLBS	5.0	7.0	6.0	6.0
PALOMAR	6.0	6.7	6.0	6.2	PST-5MINK	6.0	6.0	6.0	6.0
PPG-TF 316	5.7	7.0	6.0	6.2	RAD-TF131	5.3	6.7	6.0	6.0
PST-5DC24	5.7	7.0	6.0	6.2	RAPTOR III	5.3	6.7	6.0	6.0
RAD-TF105	6.0	6.7	6.0	6.2	RH1	5.0	7.0	6.0	6.0
RC4	5.7	7.0	6.0	6.2	TMT1	4.7	7.3	6.0	6.0
STEALTH (PPG-TF 238)	6.0	6.7	6.0	6.2	BONFIRE (JS DTT)	5.0	6.7	6.0	5.9

TABLE 30.
(CONT'D)

FALL COLOR (OCTOBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	IA1	MI1	OK1	MEAN
COL-TF-148	4.7	7.0	6.0	5.9
ESCALADE	5.7	6.0	6.0	5.9
MOONDANCE GLX	4.7	7.0	6.0	5.9
NAI-3N2	4.7	7.0	6.0	5.9
NAI-ST5	5.0	6.7	6.0	5.9
OKEEFE (LTP-TF-122)	5.0	7.0	5.7	5.9
PST-5BYOB	5.0	6.7	6.0	5.9
PST-5GQ	5.0	6.7	6.0	5.9
RAPTOR LS (PPG-TF 336)	5.0	6.7	6.0	5.9
RHF	5.0	6.7	6.0	5.9
RHL2	5.0	6.7	6.0	5.9
TF445	5.0	6.7	6.0	5.9
GRANDE 3	4.3	7.3	6.0	5.9
PST-5DZM	5.3	6.3	6.0	5.9
BAR-FA8230	4.7	6.7	6.0	5.8
DEGAS (LTP-TF-111)	4.7	6.7	6.0	5.8
FAYETTE	4.7	6.7	6.0	5.8
SE53D2	4.7	6.7	6.0	5.8
SETF104	4.7	6.7	6.0	5.8
AH1	4.0	7.3	6.0	5.8
DYNAMITE G-LS (PPG-TF 254)	4.3	7.0	6.0	5.8
FIREHAWK SLT	4.3	7.0	6.0	5.8
NAI-ROS4	4.0	7.0	6.3	5.8
PPG-TF 231	4.3	7.0	6.0	5.8
PPG-TF 320	5.0	6.3	6.0	5.8
SPYDER 2LS (ZRC1)	4.0	7.3	6.0	5.8
ESTRENA	4.7	6.7	5.7	5.7
HEMI	4.3	6.7	6.0	5.7
LIFEGUARD	4.3	6.7	6.0	5.7
PST-5E6	4.7	6.7	5.7	5.7
PST-5THM	5.0	6.0	6.0	5.7
SE5STAR	4.7	6.3	6.0	5.7
MONUMENT (PST-5SQB)	4.0	6.7	6.0	5.6
PRO GOLD	4.7	6.3	5.7	5.6
RDC	4.0	6.7	5.7	5.4
PST-5TRN	4.3	6.0	6.0	5.4
TF456	4.0	6.3	6.0	5.4
5LSS	4.0	6.7	5.3	5.3
K18-NSE	4.0	6.7	5.3	5.3
KENTUCKY-31	3.7	4.0	4.0	3.9
LSD VALUE	1.9	0.8	0.5	0.7
C.V. (%)	21.3	7.5	4.9	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.

TABLE 31. FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/								
NAME	CT1	DE1	IA1	OK1	ON1	PA2	UT1	MEAN
PPG-TF 267	7.0	8.0	7.3	6.3	7.0	6.0	4.3	6.6
DLFPS-321/3708	7.0	8.3	8.3	6.0	6.0	5.7	4.3	6.5
AST8218LM	6.3	7.7	7.7	7.0	7.3	6.3	3.0	6.5
NATURALLY GREEN	6.3	7.3	7.0	6.7	6.7	7.3	4.0	6.5
RAPTOR III	6.7	7.7	6.3	6.0	7.7	6.7	4.3	6.5
DLFPS-321/3699	7.0	8.0	6.7	6.3	7.0	5.7	4.3	6.4
PPG-TF 316	6.3	8.0	7.0	6.3	6.7	6.3	4.3	6.4
PPG-TF 323	6.3	8.0	7.3	6.0	7.3	6.0	4.0	6.4
RAPTOR LS (PPG-TF 336)	6.7	8.0	6.3	6.0	6.7	6.7	4.7	6.4
NAI-TUE	6.7	7.7	7.0	6.3	6.7	6.3	4.0	6.4
PPG-TF 338	7.0	8.0	6.7	6.0	6.3	6.3	4.3	6.4
STEALTH (PPG-TF 238)	7.0	7.3	7.0	6.3	6.3	6.3	4.3	6.4
TD2	6.3	8.7	6.7	6.0	6.7	6.3	4.0	6.4
RAD-TF105	6.7	8.3	7.0	6.0	7.0	6.0	3.7	6.4
PST-5MINK	6.3	8.3	7.7	6.3	6.0	6.3	3.3	6.3
BY-TF-169	6.7	8.0	7.0	6.0	6.7	6.0	4.0	6.3
DLFPS-321/3707	6.7	7.7	7.0	6.3	6.7	5.7	4.3	6.3
AST8118LM	6.3	8.0	7.7	6.3	6.0	6.3	3.7	6.3
COL-TF-148	6.3	8.0	6.0	6.0	7.3	6.0	4.3	6.3
DLFPS-321/3679	6.3	8.0	7.3	6.3	6.0	6.0	4.0	6.3
DLFPS-321/3693	6.7	7.7	6.3	6.0	6.3	7.0	4.0	6.3
DLFPS-321/3694	6.7	7.7	5.7	6.0	6.7	7.0	4.3	6.3
DLFPS-321/3703	6.3	8.0	6.3	6.0	6.3	6.3	4.7	6.3
PPG-TF 262	6.3	8.0	6.0	6.0	6.7	6.7	4.3	6.3
PPG-TF 305	6.7	8.3	6.7	6.3	6.3	5.7	4.0	6.3
RAD-TF131	7.0	7.7	7.3	6.0	6.3	6.0	3.7	6.3
TITANIUM G-LS (PPG-TF 255)	6.7	8.0	6.0	6.7	6.7	6.0	4.0	6.3
TMT1	6.7	7.7	6.0	6.3	6.7	6.7	4.0	6.3
K18-WB1	6.3	8.0	5.7	6.0	6.7	6.7	4.7	6.3
PARAMOUNT	6.3	7.7	6.3	6.3	6.7	6.7	4.0	6.3
3B2	6.7	8.0	6.7	6.0	6.3	6.0	4.0	6.2
DLFPS-321/3701	6.7	7.0	6.7	6.0	6.3	6.3	4.7	6.2
DLFPS-TF/3550	6.0	7.7	6.3	6.3	6.7	6.3	4.3	6.2
DLFPS-TF/3552	6.0	8.3	6.3	6.0	6.7	6.0	4.3	6.2
LBF	6.0	7.7	7.7	6.3	6.0	6.0	4.0	6.2
NAI-ST5	6.0	8.3	6.3	6.7	6.3	6.0	4.0	6.2
PPG-TF 318	6.7	8.0	6.3	6.0	6.0	6.3	4.3	6.2
PST-5DC24	6.3	7.7	7.7	6.0	6.0	6.7	3.3	6.2
RH3	6.3	7.3	7.3	6.0	6.3	6.0	4.3	6.2
A-TF31	6.3	8.0	8.3	6.3	5.7	5.7	3.3	6.2
AH1	7.0	8.0	5.0	6.0	7.7	5.3	4.7	6.2
AVENGER III (PPG-TF 308)	6.3	7.7	6.7	6.0	5.7	6.7	4.7	6.2
BANDIT	6.0	8.0	7.3	5.7	7.0	5.7	4.0	6.2
COPIOUS TF	6.3	7.3	7.7	6.0	6.0	6.3	4.0	6.2
SETFM2	6.0	8.0	7.3	6.7	5.7	6.0	4.0	6.2
SETFM3	6.3	7.7	7.3	6.0	6.0	6.3	4.0	6.2

TABLE 31. FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2020 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/								
NAME	CT1	DE1	IA1	OK1	ON1	PA2	UT1	MEAN
FAYETTE	6.3	7.3	7.3	6.3	7.0	5.7	3.7	6.2
DLFPS-TF/3553	6.3	8.3	6.7	6.0	6.3	5.7	4.0	6.2
GO-RH20	6.7	7.3	6.3	6.0	6.3	6.3	4.3	6.2
DLFPS-321/3705	7.0	7.3	6.0	6.0	7.0	5.7	4.3	6.2
NAI-FQZ-17	6.3	8.0	7.3	6.0	6.0	5.7	4.0	6.2
PPG-TF 231	6.3	7.3	6.7	6.0	6.3	6.7	4.0	6.2
RAD-TF115 (TURBO SS)	6.3	8.0	8.0	6.0	6.3	5.0	3.7	6.2
ZION (BAR TF 134)	6.3	7.7	6.3	6.0	6.3	6.7	4.0	6.2
AH2	6.3	8.0	6.7	6.0	5.7	6.0	4.3	6.1
BGR-TF3	6.0	8.0	7.3	6.7	5.7	6.0	3.3	6.1
BULLSEYE	6.7	7.0	6.7	6.0	6.7	6.0	4.0	6.1
DYNAMITE G-LS (PPG-TF 254)	6.3	7.7	6.3	6.0	6.7	6.0	4.0	6.1
GO-AOMK	6.0	8.0	7.0	6.0	6.3	6.0	3.7	6.1
NAI-3N2	6.0	7.7	6.3	6.0	7.0	6.0	4.0	6.1
PPG-TF 249	6.3	8.0	6.3	6.0	6.3	6.0	4.0	6.1
PPG-TF 313	6.3	7.0	5.7	6.0	7.7	6.0	4.3	6.1
NAI-ROS4	6.3	8.0	5.0	6.0	7.0	6.7	4.0	6.1
RHL2	6.3	7.3	5.7	6.0	6.3	6.7	4.7	6.1
OKEEFE (LTP-TF-122)	6.7	7.7	6.3	5.7	6.3	6.0	4.0	6.1
RH1	6.0	8.0	5.7	6.0	6.0	6.7	4.3	6.1
SPYDER 2LS (ZRC1)	6.7	7.7	5.0	6.0	7.0	6.3	4.0	6.1
3N1	6.3	7.7	6.7	6.0	6.3	5.7	4.0	6.1
DLFPS-321/3695	6.3	7.3	5.7	6.0	6.7	6.7	4.0	6.1
DLFPS-321/3702	6.0	8.0	6.3	6.3	6.0	5.7	4.3	6.1
FIRECRACKER G-LS (PPG-TF 315)	7.0	7.7	6.0	5.7	6.7	5.7	4.0	6.1
FIREHAWK SLT	6.3	8.0	5.3	6.0	6.7	6.3	4.0	6.1
JT 233	6.3	8.0	7.0	6.0	5.7	6.0	3.7	6.1
NT-3	6.0	8.3	5.7	6.0	6.0	6.7	4.0	6.1
PPG-TF 306	6.7	7.3	7.0	6.0	6.0	5.7	4.0	6.1
PST-5THM	6.3	7.7	6.3	6.0	6.7	6.0	3.7	6.1
RDC	6.3	8.0	5.7	6.0	6.0	6.7	4.0	6.1
TANGO	6.0	7.3	6.7	6.0	7.0	5.7	4.0	6.1
BAR 9FE MAS	6.7	7.3	6.7	6.0	6.0	6.0	3.7	6.0
KIZZLE (K18-ROE)	6.0	8.0	6.3	6.0	5.7	6.3	4.0	6.0
OG-WALK	6.3	6.7	8.0	6.0	6.3	6.0	3.0	6.0
PPG-TF 244	6.3	8.3	6.0	6.0	5.7	5.7	4.3	6.0
PPG-TF 257	6.7	7.7	6.3	6.0	6.7	5.0	4.0	6.0
PPG-TF 320	6.7	7.7	5.7	6.0	5.7	6.7	4.0	6.0
TF445	6.7	8.0	6.0	6.0	5.3	6.0	4.3	6.0
TF456	6.3	8.0	5.0	6.0	6.7	6.3	4.0	6.0
BULLSEYE LTZ	6.7	7.7	5.7	6.3	6.0	6.0	4.0	6.0
LIFEGUARD	6.0	7.3	5.3	6.0	7.3	6.3	4.0	6.0
PST-5DZM	6.7	7.7	6.7	6.0	6.0	5.7	3.7	6.0
RS1	6.0	8.0	6.0	6.0	6.7	5.7	4.0	6.0
XANADU (JT 268)	6.3	8.0	6.3	6.0	5.7	6.0	4.0	6.0
ATF2116	6.0	7.3	7.3	6.3	6.0	5.7	3.3	6.0
BAR-FA8230	6.3	7.7	6.0	6.3	6.7	5.7	3.3	6.0

TABLE 31. FALL COLOR (NOVEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2020 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/								
NAME	CT1	DE1	IA1	OK1	ON1	PA2	UT1	MEAN
DRAGSTER	6.3	7.3	5.7	6.0	6.3	6.3	4.0	6.0
GRANDE 3	6.0	7.3	6.7	6.0	6.3	5.7	4.0	6.0
JT 517	6.0	7.7	7.0	5.7	6.0	6.0	3.7	6.0
PPG-TF 337	6.3	8.0	6.3	6.0	6.0	5.0	4.3	6.0
PST-5BYOB	6.0	7.7	5.7	6.0	6.3	6.7	3.7	6.0
RC4	6.7	7.7	5.7	6.0	5.7	6.3	4.0	6.0
SETF104	6.3	8.0	6.7	6.0	5.3	6.0	3.7	6.0
BRAVO 2	6.0	7.7	7.3	6.0	5.7	5.7	3.7	6.0
DLFPS-321/3706	6.7	7.3	5.3	6.0	7.0	6.0	3.7	6.0
HEMI	6.0	7.3	6.3	6.0	6.3	6.3	3.7	6.0
DLFPS-321/3696	6.3	7.7	6.0	6.0	5.7	6.0	4.0	6.0
GLX ACED (PST-5DART)	6.0	7.3	6.7	6.0	6.0	6.3	3.3	6.0
SESCR1	6.3	7.7	5.7	6.0	6.0	6.0	4.0	6.0
BIRMINGHAM	6.0	7.0	7.0	6.0	6.0	6.0	3.7	6.0
ESCALADE	6.0	7.3	5.7	6.0	6.0	6.7	4.0	6.0
ESTRENA	6.0	7.0	6.0	6.0	6.7	6.3	3.7	6.0
PADRE 2	6.0	7.3	6.3	6.0	6.0	6.0	4.0	6.0
PALOMAR	6.0	7.3	6.3	6.0	6.7	6.0	3.3	6.0
PPG-TF 312	6.7	7.3	5.0	5.3	6.7	6.7	4.0	6.0
MOONDANCE GLX	6.7	7.3	6.3	6.0	6.0	5.7	3.7	6.0
K18-RS6	6.0	7.7	5.7	5.7	6.7	5.7	4.0	5.9
PST-5GLBS	6.3	7.3	5.7	6.0	6.3	6.0	3.7	5.9
PST-5GQ	6.0	7.7	6.3	6.0	6.0	5.7	3.7	5.9
ATF1768	6.0	8.0	6.7	6.0	5.7	5.7	3.0	5.9
BONFIRE (JS DTT)	6.7	7.7	5.3	6.0	5.7	5.7	4.0	5.9
GRAND PRIX (FC15-01P)	6.0	8.0	6.3	6.0	5.3	6.0	3.3	5.9
PST-5MCMO	6.0	7.0	6.3	6.0	6.3	6.0	3.3	5.9
RHF	6.3	7.3	6.0	5.3	6.3	5.7	4.0	5.9
BAR FA 8228	6.3	7.3	6.3	5.7	5.7	6.0	3.3	5.8
PST-5E6	6.0	7.3	5.3	6.0	6.7	5.7	3.7	5.8
DEGAS (LTP-TF-111)	6.3	7.0	5.7	6.0	5.7	5.7	4.0	5.8
K18-NSE	6.0	7.0	4.7	5.7	6.0	7.0	4.0	5.8
MONUMENT (PST-5SQB)	6.3	7.7	5.7	6.0	5.0	6.3	3.3	5.8
PST-5TRN	6.0	7.0	6.0	6.0	6.7	5.7	3.0	5.8
PRO GOLD	6.0	7.0	5.7	5.7	5.7	6.0	3.7	5.7
SE53D2	6.3	7.0	6.0	6.0	5.7	5.7	3.0	5.7
5LSS	6.0	7.0	5.0	5.7	5.7	4.7	5.3	5.6
SE5STAR	6.3	7.7	5.3	5.7	5.0	6.0	2.7	5.5
KENTUCKY-31	4.3	4.3	5.7	4.0	4.7	6.3	2.3	4.5
LSD VALUE	0.7	0.9	1.3	0.6	1.4	1.0	0.7	0.4
C.V. (%)	7.3	6.9	12.9	6.2	14.1	10.3	11.5	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 32.

FALL COLOR (DECEMBER) RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	OK1	NAME	OK1	NAME	OK1
3B2	6.0	PPG-TF 316	6.0	PST-5GQ	5.7
3N1	6.0	PPG-TF 318	6.0	RAD-TF131	5.7
A-TF31	6.0	PST-5TRN	6.0	RHL2	5.7
AH1	6.0	RAD-TF105	6.0	RS1	5.7
AH2	6.0	RAPTOR LS (PPG-TF 336)	6.0	SETFM2	5.7
AVENGER III (PPG-TF 308)	6.0	RC4	6.0	SPYDER 2LS (ZRC1)	5.7
BANDIT	6.0	RDC	6.0	TF445	5.7
BAR-FA8230	6.0	RH1	6.0	ATF1768	5.3
BONFIRE (JS DTT)	6.0	RH3	6.0	BGR-TF3	5.3
BRAVO 2	6.0	SESCR1	6.0	DLFPS-321/3694	5.3
BULLSEYE LTZ	6.0	SETFM3	6.0	GRAND PRIX (FC15-01P)	5.3
BY-TF-169	6.0	STEALTH (PPG-TF 238)	6.0	HEMI	5.3
COL-TF-148	6.0	TD2	6.0	MONUMENT (PST-5SQB)	5.3
COPIOUS TF	6.0	TF456	6.0	NATURALLY GREEN	5.3
DEGAS (LTP-TF-111)	6.0	TITANIUM G-LS (PPG-TF 255)	6.0	NT-3	5.3
DLFPS-321/3693	6.0	TMT1	6.0	OG-WALK	5.3
DLFPS-321/3696	6.0	XANADU (JT 268)	6.0	PALOMAR	5.3
DLFPS-321/3699	6.0	ZION (BAR TF 134)	6.0	PPG-TF 312	5.3
DLFPS-321/3701	6.0	5LSS	5.7	PPG-TF 313	5.3
DLFPS-321/3702	6.0	AST8118LM	5.7	PPG-TF 320	5.3
DLFPS-321/3703	6.0	AST8218LM	5.7	PPG-TF 323	5.3
DLFPS-321/3705	6.0	ATF2116	5.7	PRO GOLD	5.3
DLFPS-321/3706	6.0	BIRMINGHAM	5.7	PST-5DZM	5.3
DLFPS-321/3707	6.0	BULLSEYE	5.7	PST-5E6	5.3
DLFPS-321/3708	6.0	DLFPS-321/3679	5.7	PST-5GLBS	5.3
DLFPS-TF/3550	6.0	DLFPS-321/3695	5.7	PST-5MCMO	5.3
DLFPS-TF/3552	6.0	ESCALADE	5.7	PST-5THM	5.3
DLFPS-TF/3553	6.0	GLX ACED (PST-5DART)	5.7	RAD-TF115 (TURBO SS)	5.3
DRAGSTER	6.0	JT 233	5.7	SE53D2	5.3
DYNAMITE G-LS (PPG-TF 254)	6.0	K18-NSE	5.7	SETF104	5.3
ESTRENA	6.0	K18-RS6	5.7	TANGO	5.3
FAYETTE	6.0	LBF	5.7	BAR 9FE MAS	5.0
FIRECRACKER G-LS (PPG-TF 315)	6.0	LIFEGUARD	5.7	GO-AOMK	5.0
FIREHAWK SLT	6.0	MOONDANCE GLX	5.7	PPG-TF 338	5.0
GO-RH20	6.0	NAI-3N2	5.7	PST-5MINK	5.0
GRANDE 3	6.0	NAI-ROS4	5.7	RAPTOR III	5.0
JT 517	6.0	NAI-ST5	5.7	RHF	5.0
K18-WB1	6.0	NAI-TUE	5.7	SE5STAR	5.0
KIZZLE (K18-ROE)	6.0	PADRE 2	5.7	BAR FA 8228	4.7
NAI-FQZ-17	6.0	PARAMOUNT	5.7	KENTUCKY-31	3.0
OKEEFE (LTP-TF-122)	6.0	PPG-TF 244	5.7		
PPG-TF 231	6.0	PPG-TF 249	5.7	LSD VALUE	0.7
PPG-TF 257	6.0	PPG-TF 262	5.7	C.V. (%)	8.0
PPG-TF 267	6.0	PPG-TF 337	5.7		
PPG-TF 305	6.0	PST-5BYOB	5.7		
PPG-TF 306	6.0	PST-5DC24	5.7		

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

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

TABLE 33.

TURF UNIFORMITY RATINGS OF TALL FESCUE CULTIVARS 1/
2020 DATA

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

NAME	NJ2	NAME	NJ2	NAME	NJ2
AH2	9.0	DLFPS-321/3707	6.3	PPG-TF 337	5.0
RS1	8.3	LIFEGUARD	6.3	PRO GOLD	5.0
TF445	8.0	NAI-ROS4	6.3	PST-5TRN	5.0
BY-TF-169	7.7	PPG-TF 312	6.3	SE53D2	5.0
K18-NSE	7.7	RH1	6.3	BULLSEYE	4.7
K18-RS6	7.7	SETF104	6.3	GO-AOMK	4.7
PPG-TF 244	7.7	TMT1	6.3	NATURALLY GREEN	4.7
SESCR1	7.7	XANADU (JT 268)	6.3	PPG-TF 338	4.7
SPYDER 2LS (ZRC1)	7.7	DLFPS-321/3699	6.0	PST-5BYOB	4.7
AH1	7.3	DLFPS-321/3706	6.0	PST-5THM	4.7
BONFIRE (JS DTT)	7.3	DLFPS-321/3708	6.0	RAD-TF131	4.7
COL-TF-148	7.3	DLFPS-TF/3553	6.0	A-TF31	4.3
GRANDE 3	7.3	DRAGSTER	6.0	ATF2116	4.3
PPG-TF 305	7.3	JT 233	6.0	DLFPS-321/3696	4.3
PPG-TF 316	7.3	KIZZLE (K18-ROE)	6.0	DLFPS-321/3703	4.3
PPG-TF 318	7.3	NAI-3N2	6.0	GRAND PRIX (FC15-01P)	4.3
RHF	7.3	PPG-TF 257	6.0	OG-WALK	4.3
ZION (BAR TF 134)	7.3	PPG-TF 320	6.0	SETFM3	4.3
DEGAS (LTP-TF-111)	7.0	PPG-TF 323	6.0	TANGO	4.3
DLFPS-321/3693	7.0	PST-5E6	6.0	BANDIT	4.0
DLFPS-321/3695	7.0	PST-5GQ	6.0	BAR 9FE MAS	4.0
DLFPS-321/3702	7.0	PST-5MCMO	6.0	JT 517	4.0
DYNAMITE G-LS (PPG-TF 254)	7.0	RAD-TF105	6.0	NAI-FQZ-17	4.0
GO-RH20	7.0	RAPTOR III	6.0	PST-5DC24	4.0
NAI-ST5	7.0	RAPTOR LS (PPG-TF 336)	6.0	PST-5MINK	4.0
PPG-TF 262	7.0	TITANIUM G-LS (PPG-TF 255)	6.0	SETFM2	4.0
PPG-TF 306	7.0	AVENGER III (PPG-TF 308)	5.7	BAR FA 8228	3.7
PPG-TF 313	7.0	BULLSEYE LTZ	5.7	BAR-FA8230	3.7
RDC	7.0	DLFPS-321/3694	5.7	BGR-TF3	3.7
STEALTH (PPG-TF 238)	7.0	FIRECRACKER G-LS (PPG-TF 315)	5.7	BIRMINGHAM	3.7
TD2	7.0	HEMI	5.7	BRAVO 2	3.7
TF456	7.0	PADRE 2	5.7	LBF	3.7
DLFPS-321/3705	6.7	PPG-TF 231	5.7	RAD-TF115 (TURBO SS)	3.7
DLFPS-TF/3550	6.7	PPG-TF 249	5.7	SE5STAR	3.7
DLFPS-TF/3552	6.7	PST-5DZM	5.7	AST8118LM	3.3
GLX ACED (PST-5DART)	6.7	3B2	5.3	AST8218LM	3.3
K18-WB1	6.7	ATF1768	5.3	ESCALADE	3.3
NT-3	6.7	COPIOUS TF	5.3	FAYETTE	3.3
OKEEFE (LTP-TF-122)	6.7	DLFPS-321/3679	5.3	PALOMAR	3.3
PARAMOUNT	6.7	DLFPS-321/3701	5.3	KENTUCKY-31	1.3
PPG-TF 267	6.7	FIREHAWK SLT	5.3		
PST-5GLBS	6.7	MOONDANCE GLX	5.3	LSD VALUE	1.8
RC4	6.7	NAI-TUE	5.3	C.V. (%)	20.0
RH3	6.7	3N1	5.0		
RHL2	6.7	ESTRENA	5.0		
5LSS	6.3	MONUMENT (PST-5SQB)	5.0		

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 34.

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

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

NAME	JUNE	JULY	AUGUST	MEAN
PPG-TF 337	7.3	7.3	5.0	6.6
DLFPS-321/3705	6.3	6.0	5.3	5.9
DYNAMITE G-LS (PPG-TF 254)	7.3	7.3	3.0	5.9
K18-NSE	7.0	6.7	3.7	5.8
K18-RS6	6.0	6.0	5.3	5.8
PPG-TF 316	7.0	5.7	4.7	5.8
SPYDER 2LS (ZRC1)	6.7	6.0	4.7	5.8
PPG-TF 244	6.0	5.7	5.3	5.7
PPG-TF 338	6.3	5.7	5.0	5.7
RH3	6.3	6.0	4.7	5.7
BONFIRE (JS DTT)	6.7	5.3	4.7	5.6
DLFPS-321/3695	5.7	6.0	5.0	5.6
DRAGSTER	6.3	5.7	4.7	5.6
PPG-TF 323	6.3	6.0	4.3	5.6
RH1	6.3	5.3	5.0	5.6
RHL2	6.3	6.3	4.0	5.6
TITANIUM G-LS (PPG-TF 255)	6.3	6.0	4.3	5.6
NAI-ST5	6.0	5.3	5.0	5.4
TF456	6.0	6.0	4.3	5.4
DLFPS-321/3703	5.7	5.7	4.7	5.3
NAI-TUE	5.7	5.3	5.0	5.3
PPG-TF 306	6.3	5.0	4.7	5.3
BY-TF-169	6.0	6.0	3.7	5.2
DLFPS-321/3696	5.7	5.7	4.3	5.2
DLFPS-321/3707	5.3	5.3	5.0	5.2
ESTRENA	5.7	6.0	4.0	5.2
RHF	6.0	5.7	4.0	5.2
STEALTH (PPG-TF 238)	6.3	5.0	4.3	5.2
XANADU (JT 268)	5.7	5.7	4.3	5.2
DEGAS (LTP-TF-111)	6.3	5.3	3.7	5.1
DLFPS-TF/3552	6.0	5.3	4.0	5.1
K18-WB1	5.3	5.3	4.7	5.1
KIZZLE (K18-ROE)	5.3	4.7	5.3	5.1
PPG-TF 262	5.3	5.7	4.3	5.1
PPG-TF 320	5.7	5.3	4.3	5.1
COL-TF-148	5.3	5.3	4.3	5.0
DLFPS-321/3701	6.0	5.3	3.7	5.0
DLFPS-TF/3553	5.3	5.3	4.3	5.0
GLX ACED (PST-5DART)	5.7	5.0	4.3	5.0
GO-RH20	6.3	4.3	4.3	5.0
NT-3	6.3	5.0	3.7	5.0
PARAMOUNT	5.3	5.7	4.0	5.0
PST-5MCMO	5.3	5.0	4.7	5.0
TMT1	6.3	4.7	4.0	5.0
ATF1768	5.3	5.3	4.0	4.9

TABLE 34.
(CONT'D)BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS
AT RALEIGH, NC 1/
2020 DATA

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

NAME	JUNE	JULY	AUGUST	MEAN
AVENGER III (PPG-TF 308)	5.7	5.3	3.7	4.9
DLFPS-321/3693	5.3	5.0	4.3	4.9
OKEEFE (LTP-TF-122)	6.7	4.7	3.3	4.9
PADRE 2	6.3	4.3	4.0	4.9
PST-5BYOB	4.7	5.3	4.7	4.9
PST-5THM	5.7	4.7	4.3	4.9
RAPTOR III	5.0	5.3	4.3	4.9
RDC	5.7	5.7	3.3	4.9
TF445	5.7	5.0	4.0	4.9
AH1	4.3	5.0	5.0	4.8
AH2	5.3	5.3	3.7	4.8
DLFPS-321/3694	5.3	5.0	4.0	4.8
JT 233	5.0	5.3	4.0	4.8
LIFEGUARD	5.3	5.3	3.7	4.8
MONUMENT (PST-5SQB)	5.3	5.0	4.0	4.8
PST-5GLBS	5.0	5.3	4.0	4.8
3N1	5.7	4.0	4.3	4.7
GRANDE 3	5.0	5.0	4.0	4.7
PPG-TF 231	5.3	5.3	3.3	4.7
PPG-TF 305	5.3	4.7	4.0	4.7
PPG-TF 312	6.3	5.3	2.3	4.7
PST-5E6	5.3	4.3	4.3	4.7
PST-5TRN	5.0	4.7	4.3	4.7
RAD-TF105	5.0	5.3	3.7	4.7
RC4	5.0	5.0	4.0	4.7
SESCR1	5.0	4.7	4.3	4.7
MOONDANCE GLX	5.3	4.7	3.7	4.6
NAI-ROS4	4.7	5.0	4.0	4.6
PPG-TF 318	5.0	4.7	4.0	4.6
RAPTOR LS (PPG-TF 336)	5.3	4.3	4.0	4.6
TD2	5.7	4.7	3.3	4.6
ATF2116	5.0	4.3	4.0	4.4
BULLSEYE LTZ	5.7	4.7	3.0	4.4
FIRECRACKER G-LS (PPG-TF 315)	5.0	4.3	4.0	4.4
NAI-3N2	5.0	4.7	3.7	4.4
ZION (BAR TF 134)	5.0	4.3	4.0	4.4
5LSS	5.3	4.7	3.0	4.3
DLFPS-321/3699	4.3	4.7	4.0	4.3
DLFPS-321/3702	5.0	4.3	3.7	4.3
DLFPS-TF/3550	5.0	4.3	3.7	4.3
SE5STAR	5.0	4.0	4.0	4.3
DLFPS-321/3706	4.3	4.3	4.0	4.2
FIREHAWK SLT	5.7	4.0	3.0	4.2
PPG-TF 257	5.3	4.3	3.0	4.2
PRO GOLD	4.3	4.7	3.7	4.2

TABLE 34.
(CONT'D)

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

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	JUNE	JULY	AUGUST	MEAN
PST-5GQ	5.7	4.0	3.0	4.2
BRAVO 2	5.0	3.7	3.7	4.1
BULLSEYE	4.3	4.7	3.3	4.1
PPG-TF 249	4.3	4.3	3.7	4.1
PPG-TF 313	5.0	4.3	3.0	4.1
FAYETTE	4.3	4.3	3.3	4.0
PPG-TF 267	4.3	4.3	3.3	4.0
PST-5DZM	5.0	4.3	2.7	4.0
TANGO	4.7	4.3	3.0	4.0
A-TF31	4.3	4.0	3.3	3.9
DLFPS-321/3708	4.0	4.0	3.7	3.9
KENTUCKY-31	4.0	4.0	3.7	3.9
PST-5DC24	4.7	3.7	3.3	3.9
RS1	4.0	4.3	3.3	3.9
PST-5MINK	4.0	4.0	3.3	3.8
3B2	5.0	3.0	3.0	3.7
BAR 9FE MAS	4.7	3.3	3.0	3.7
COPIOUS TF	4.0	4.3	2.7	3.7
SE53D2	4.0	3.7	3.0	3.6
SETF104	4.0	3.3	3.3	3.6
DLFPS-321/3679	4.0	3.7	2.7	3.4
SETFM3	4.0	3.3	3.0	3.4
AST8118LM	4.0	3.0	3.0	3.3
AST8218LM	4.0	3.0	3.0	3.3
JT 517	3.3	3.3	3.3	3.3
PALOMAR	3.3	3.3	3.3	3.3
GO-AOMK	4.3	3.0	2.3	3.2
HEMI	3.3	3.7	2.7	3.2
NAI-FQZ-17	4.0	3.0	2.3	3.1
SETFM2	3.7	3.0	2.7	3.1
BAR-FA8230	3.0	3.0	3.0	3.0
BGR-TF3	3.0	3.0	3.0	3.0
BIRMINGHAM	4.0	2.7	2.3	3.0
NATURALLY GREEN	3.3	3.0	2.7	3.0
LBF	4.0	2.7	2.0	2.9
RAD-TF115 (TURBO SS)	3.3	3.0	2.3	2.9
BANDIT	3.3	2.7	2.3	2.8
BAR FA 8228	3.3	2.7	2.3	2.8
GRAND PRIX (FC15-01P)	3.3	2.7	2.3	2.8
ESCALADE	2.7	2.7	2.7	2.7
RAD-TF131	3.3	2.3	1.7	2.4
OG-WALK	2.3	2.0	2.3	2.2
LSD VALUE	2.2	2.5	2.1	1.7
C.V. (%)	22.6	27.2	27.0	21.2

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 */
2020 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	6.1	18.2	FAYETTE	5.9	18.2
3N1	6.1	13.6	FIRECRACKER G-LS (PPG-TF 315)	6.2	31.8
5LSS	6.2	36.4	FIREHAWK SLT	6.0	22.7
A-TF31	5.5	4.5	GLX ACED (PST-5DART)	6.1	18.2
AH1	6.3	54.5	GO-AOMK	5.7	4.5
AH2	6.4	59.1	GO-RH20	6.3	45.5
AST8118LM	5.6	9.1	GRAND PRIX (FC15-01P)	5.4	0.0
AST8218LM	5.7	4.5	GRANDE 3	6.0	4.5
ATF1768	5.8	4.5	HEMI	6.0	9.1
ATF2116	5.8	13.6	JT 233	6.1	22.7
AVENGER III (PPG-TF 308)	6.2	36.4	JT 517	5.8	13.6
BANDIT	5.5	4.5	K18-NSE	6.2	40.9
BAR 9FE MAS	5.4	4.5	K18-RS6	6.4	59.1
BAR FA 8228	5.4	4.5	K18-WB1	6.2	27.3
BAR-FA8230	5.7	13.6	KENTUCKY-31	4.3	0.0
BGR-TF3	5.6	13.6	KIZZLE (K18-ROE)	6.0	9.1
BIRMINGHAM	5.7	4.5	LBFI	5.7	13.6
BONFIRE (JS DTT)	6.3	59.1	LIFEGUARD	6.0	18.2
BRAVO 2	5.7	0.0	MONUMENT (PST-5SQB)	5.8	4.5
BULLSEYE	5.7	0.0	MOONDANCE GLX	5.9	9.1
BULLSEYE LTZ	6.3	27.3	NAI-3N2	6.0	22.7
BY-TF-169	6.3	40.9	NAI-FQZ-17	5.6	9.1
COL-TF-148	6.2	31.8	NAI-ROS4	6.2	27.3
COPIOUS TF	5.6	4.5	NAI-ST5	6.2	31.8
DEGAS (LTP-TF-111)	6.2	31.8	NAI-TUE	6.0	13.6
DLFPS-321/3679	6.0	4.5	NATURALLY GREEN	5.6	4.5
DLFPS-321/3693	6.2	40.9	NT-3	6.2	40.9
DLFPS-321/3694	6.1	27.3	OG-WALK	5.3	0.0
DLFPS-321/3695	6.2	40.9	OKEEFE (LTP-TF-122)	6.2	22.7
DLFPS-321/3696	6.2	27.3	PADRE 2	6.2	13.6
DLFPS-321/3699	6.2	36.4	PALOMAR	5.3	0.0
DLFPS-321/3701	6.3	40.9	PARAMOUNT	6.2	13.6
DLFPS-321/3702	6.2	31.8	PPG-TF 231	6.1	31.8
DLFPS-321/3703	6.0	27.3	PPG-TF 244	6.3	40.9
DLFPS-321/3705	6.5	59.1	PPG-TF 249	6.2	18.2
DLFPS-321/3706	6.1	13.6	PPG-TF 257	6.2	31.8
DLFPS-321/3707	6.3	45.5	PPG-TF 262	6.4	50.0
DLFPS-321/3708	6.2	50.0	PPG-TF 267	6.3	54.5
DLFPS-TF/3550	6.3	36.4	PPG-TF 305	6.3	36.4
DLFPS-TF/3552	6.3	36.4	PPG-TF 306	6.3	27.3
DLFPS-TF/3553	6.3	31.8	PPG-TF 312	6.0	27.3
DRAGSTER	6.1	27.3	PPG-TF 313	6.2	45.5
DYNAMITE G-LS (PPG-TF 254)	6.3	54.5	PPG-TF 316	6.3	45.5
ESCALADE	5.4	4.5	PPG-TF 318	6.1	13.6
ESTRENA	5.8	22.7	PPG-TF 320	6.3	45.5

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR TALL FESCUE CULTIVARS
(CONT'D) 2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
PPG-TF 323	6.4	54.5
PPG-TF 337	6.2	27.3
PPG-TF 338	6.3	50.0
PRO GOLD	5.8	0.0
PST-5BYOB	5.9	9.1
PST-5DC24	5.7	9.1
PST-5DZM	5.7	0.0
PST-5E6	6.0	22.7
PST-5GLBS	6.1	27.3
PST-5GQ	6.0	13.6
PST-5MCMO	6.1	27.3
PST-5MINK	5.6	9.1
PST-5THM	5.8	9.1
PST-5TRN	6.1	18.2
RAD-TF105	5.8	13.6
RAD-TF115 (TURBO SS)	5.2	4.5
RAD-TF131	5.5	9.1
RAPTOR III	6.2	22.7
RAPTOR LS (PPG-TF 336)	6.2	31.8
RC4	6.2	36.4
RDC	6.2	31.8
RH1	6.3	31.8
RH3	6.3	59.1
RHF	6.2	36.4
RHL2	6.1	27.3
RS1	6.3	36.4
SE53D2	5.8	4.5
SE5STAR	5.7	4.5
SESCR1	6.1	31.8
SETF104	5.9	0.0
SETFM2	5.5	9.1
SETFM3	5.8	4.5
SPYDER 2LS (ZRC1)	6.5	59.1
STEALTH (PPG-TF 238)	6.4	50.0
TANGO	5.8	18.2
TD2	6.4	50.0
TF445	6.3	40.9
TF456	6.3	40.9
TITANIUM G-LS (PPG-TF 255)	6.4	63.6
TMT1	6.2	27.3
XANADU (JT 268)	6.4	45.5
ZION (BAR TF 134)	6.4	54.5
LSD VALUE	0.2	
C.V. (%)	8.8	

*/ 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.