

TABLE 1.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT FRESNO, CA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER		QUALITY RATINGS								MEAN
	SPRING	PYTHIUM	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
PPG-TF 305	81.7	7.7	5.0	5.3	5.0	6.7	8.0	7.7	7.3	6.4	
BRAVO 2	83.3	7.3	5.3	5.3	4.7	6.7	7.0	7.0	6.7	6.1	
PST-5BYOB	80.0	6.7	5.0	5.0	4.3	6.0	7.7	7.7	7.3	6.1	
LBF	83.3	8.0	5.3	4.7	5.3	5.0	7.3	7.3	7.0	6.0	
PADRE 2	85.0	6.3	5.3	5.7	3.7	5.7	7.3	7.3	7.3	6.0	
PPG-TF 306	83.3	7.0	5.0	5.0	4.3	6.3	6.7	7.0	7.0	5.9	
PPG-TF 257	85.0	8.3	5.0	5.3	4.7	5.7	6.7	6.7	6.7	5.8	
PST-5MCMO	88.3	7.0	5.3	5.3	4.7	5.3	7.0	6.7	6.3	5.8	
BAR FA 8228	91.7	6.0	5.7	5.7	3.7	4.7	7.0	6.7	6.3	5.7	
FIREHAWK SLT	76.7	6.0	5.0	5.0	3.7	5.7	7.0	7.0	6.7	5.7	
PST-5SQB	83.3	6.7	5.7	5.0	4.0	5.7	6.7	6.3	6.3	5.7	
TF445	91.7	5.7	5.0	5.3	3.3	5.7	7.0	7.0	6.7	5.7	
RH1	90.0	7.3	5.7	5.3	4.0	5.7	6.3	6.0	6.0	5.6	
RH3	88.3	6.3	6.0	5.3	4.0	5.7	6.0	6.3	6.0	5.6	
3N1	73.3	7.3	5.0	5.0	4.3	5.3	6.0	6.3	6.3	5.5	
BY-TF-169	86.7	7.7	5.3	5.0	4.7	5.3	6.0	6.0	6.0	5.5	
DLFPS-321/3696	78.3	7.7	4.7	4.3	4.3	5.3	6.7	6.7	6.3	5.5	
DLFPS-321/3705	85.0	6.0	5.0	4.7	3.7	5.0	7.0	6.7	6.7	5.5	
PPG-TF 254	88.3	7.7	5.3	5.0	4.7	5.0	6.0	6.3	6.3	5.5	
PPG-TF 313	80.0	7.0	5.0	5.3	4.0	5.3	6.3	6.3	6.3	5.5	
PPG-TF 315	76.7	7.7	4.3	4.7	5.3	5.3	6.0	6.3	6.3	5.5	
PST-5E6	73.3	6.7	5.0	4.7	4.0	5.7	6.7	6.3	6.3	5.5	
PST-5GLBS	94.7	6.3	5.0	5.7	4.0	5.3	6.7	6.0	5.7	5.5	
SETFM2	83.3	5.0	5.0	4.7	4.0	5.3	6.3	6.7	6.7	5.5	
BGR-TF3	86.7	7.3	5.0	5.0	4.0	4.3	6.3	6.7	6.3	5.4	
FAYETTE	86.7	8.3	5.0	4.7	4.7	5.3	6.3	6.0	5.7	5.4	
GLX ACED (PST-5DART)	86.7	7.7	5.0	4.7	4.7	5.0	6.7	6.0	6.0	5.4	
NAI-ST5	73.3	7.0	5.3	5.3	4.3	5.3	6.0	6.0	5.7	5.4	
PALOMAR	85.0	7.0	4.7	5.0	3.7	4.7	6.3	7.0	6.7	5.4	
PARAMOUNT	86.7	5.3	5.0	4.3	3.7	4.7	6.3	7.0	6.7	5.4	
TF456	85.0	6.7	5.3	4.7	4.0	5.7	6.3	6.0	5.7	5.4	
ATF2116	76.7	7.7	5.0	5.0	4.7	5.0	5.7	5.7	6.3	5.3	
DLFPS-321/3679	81.7	6.3	4.7	4.7	3.7	5.3	6.7	6.0	6.0	5.3	
DLFPS-321/3693	76.7	7.3	5.0	5.3	4.3	6.0	5.7	5.7	5.3	5.3	
ESCALADE	83.3	6.3	5.3	5.0	3.7	5.0	5.7	6.3	6.3	5.3	
GO-RH20	86.7	5.7	4.7	4.7	3.7	5.3	6.3	6.3	6.0	5.3	
GRAND PRIX (FC15-01P)	85.0	6.7	5.0	5.0	3.7	5.3	6.0	6.0	6.0	5.3	
JT 233	81.7	7.0	5.3	5.0	3.7	5.3	6.3	6.0	5.7	5.3	
PPG-TF 255	88.0	8.3	5.0	5.0	4.7	5.0	6.0	6.0	5.7	5.3	
GRANDE 3	83.3	6.7	4.7	5.0	3.3	5.3	6.3	6.0	5.7	5.2	
BONFIRE (JS DTT)	76.3	5.0	5.0	5.0	3.7	5.0	6.3	6.0	5.7	5.2	
JT 517	86.7	7.3	4.7	5.0	4.3	5.0	5.7	6.0	5.7	5.2	
K18-ROE	90.0	7.7	5.0	5.3	4.3	4.7	5.7	5.7	5.7	5.2	
K18-RS6	78.3	6.7	4.7	5.7	3.7	5.0	5.3	6.0	6.0	5.2	
LIFEGUARD	73.3	6.0	4.7	4.7	4.3	5.0	6.3	6.0	5.7	5.2	

TABLE 1.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT FRESNO, CA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER		QUALITY RATINGS								MEAN
	SPRING	PYTHIUM	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
DEGAS (LTP-TF-111)	88.3	6.7	4.7	5.0	3.7	5.0	6.0	6.3	6.0	5.2	
NAI-ROS4	88.3	6.7	5.0	5.3	3.7	5.3	5.7	5.7	5.7	5.2	
PST-5TRN	65.0	6.7	4.3	5.0	4.3	5.0	5.7	6.0	6.0	5.2	
RAPTOR III	90.0	4.7	5.3	6.0	3.0	5.0	5.7	6.0	5.7	5.2	
SESCR1	85.0	6.0	5.0	4.3	3.3	5.7	5.7	6.3	6.0	5.2	
ZRC1	85.0	5.7	5.0	5.0	3.7	5.3	5.7	6.0	6.0	5.2	
A-TF31	80.0	5.0	4.7	4.7	3.7	5.0	6.3	6.0	5.7	5.1	
AH1	83.3	7.0	5.0	4.7	4.0	5.0	6.0	5.7	5.7	5.1	
COPIOUS TF	85.0	6.7	5.0	5.7	3.7	4.7	5.3	5.7	5.7	5.1	
DLFPS-321/3699	81.7	6.7	5.0	4.7	4.7	4.7	5.7	5.7	5.7	5.1	
DLFPS-321/3701	80.0	6.3	5.0	4.7	3.7	5.0	6.0	6.0	5.7	5.1	
DLFPS-TF/3553	85.0	7.7	5.0	4.7	5.0	4.3	5.7	5.7	5.7	5.1	
ESTRENA	90.0	5.7	5.3	4.7	3.3	4.7	6.0	6.0	6.0	5.1	
NATURALLY GREEN	81.7	5.7	5.0	5.0	4.0	5.0	5.7	5.7	5.7	5.1	
NT-3	73.3	8.3	4.7	5.0	5.0	4.7	5.7	5.7	5.3	5.1	
PPG-TF 338	81.7	5.3	5.3	4.7	3.3	4.7	6.0	6.3	5.3	5.1	
PST-5THM	86.7	6.3	4.7	4.7	3.7	4.7	6.3	6.0	5.7	5.1	
TMT1	73.3	7.3	5.0	4.7	4.0	4.3	6.0	6.0	5.7	5.1	
DLFPS-321/3708	91.7	4.7	5.0	5.0	3.3	4.7	6.0	5.7	5.7	5.0	
PPG-TF 244	85.0	7.0	4.7	5.3	4.0	4.7	5.3	5.7	5.7	5.0	
PPG-TF 312	85.0	6.3	4.7	4.7	3.7	5.3	6.0	5.7	5.3	5.0	
PPG-TF 316	85.0	6.3	4.7	4.7	4.0	4.7	6.0	6.0	5.3	5.0	
PRO GOLD	81.7	6.0	5.3	5.0	4.0	4.3	5.7	5.3	5.3	5.0	
PST-5GQ	88.3	6.3	4.7	4.3	4.0	4.3	6.0	6.0	5.7	5.0	
RAD-TF131	75.0	4.7	4.7	4.3	2.3	4.7	6.0	6.3	6.3	5.0	
RC4	88.3	5.0	4.7	5.0	3.0	4.7	6.3	6.0	5.7	5.0	
SETFM3	80.0	6.0	5.3	5.0	4.0	3.7	5.7	5.7	5.3	5.0	
TD2	90.0	6.3	5.0	5.0	3.7	4.7	5.0	5.7	5.7	5.0	
AST8118LM	85.0	6.0	4.7	4.3	3.3	4.3	6.0	6.0	5.7	4.9	
DLFPS-TF/3550	91.7	4.7	4.7	4.3	2.7	4.7	5.3	6.0	6.3	4.9	
NAI-TUE	93.3	5.0	5.0	4.7	3.3	4.3	6.3	5.3	5.0	4.9	
PPG-TF 318	90.0	6.0	5.0	5.0	3.7	4.3	5.3	5.3	5.7	4.9	
SE5STAR	86.7	5.3	5.0	4.3	3.3	4.7	5.7	5.7	5.3	4.9	
TANGO	83.3	5.7	5.0	5.0	3.0	4.3	5.3	5.7	5.7	4.9	
ATF1768	83.3	4.7	5.0	5.0	2.3	4.3	5.7	5.7	5.7	4.8	
BAR TF 134	75.0	5.3	5.0	4.3	3.0	4.7	5.7	5.7	5.3	4.8	
COL-TF-148	66.7	6.7	4.7	4.3	3.7	5.0	5.0	5.7	5.3	4.8	
DLFPS-321/3695	83.0	6.0	5.3	5.0	4.0	4.3	5.0	5.0	4.7	4.8	
DLFPS-321/3702	90.0	5.7	4.7	4.7	4.3	4.7	5.0	5.3	5.0	4.8	
JT 268	88.3	4.0	5.3	5.3	3.0	4.7	5.0	5.3	5.0	4.8	
PPG-TF 231	88.3	5.7	5.3	6.0	4.0	3.7	4.3	5.0	5.0	4.8	
AST8218LM	83.3	6.0	4.7	5.0	3.7	4.3	5.0	5.0	5.0	4.7	
BAR-FA8230	85.0	5.3	5.3	5.0	3.3	4.3	5.7	4.7	4.7	4.7	
BIRMINGHAM	91.7	4.0	5.3	5.3	2.7	4.3	5.7	5.0	4.7	4.7	
DLFPS-TF/3552	85.0	5.3	5.0	5.0	2.7	4.0	4.7	5.3	5.3	4.7	

TABLE 1.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
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2019 DATA

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

NAME	PERCENT GROUND COVER		QUALITY RATINGS							
	SPRING	PYTHIUM	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
NAI-FQZ-17	85.0	5.3	5.0	5.0	3.0	4.0	5.7	5.3	5.0	4.7
RDC	83.3	6.7	4.3	4.7	4.3	4.3	5.0	5.3	4.7	4.7
3B2	86.7	5.7	5.0	4.7	4.0	4.0	4.7	5.0	4.7	4.6
5LSS	83.3	5.7	5.3	4.3	3.3	4.0	5.0	5.0	5.0	4.6
DLFPS-321/3694	89.7	5.0	5.3	4.7	3.0	4.0	5.0	5.0	5.3	4.6
DLFPS-321/3703	90.0	6.7	5.0	5.3	3.7	4.3	4.7	4.7	4.3	4.6
DLFPS-321/3706	88.3	7.0	4.3	4.7	4.3	4.3	4.7	5.0	5.0	4.6
MOONDANCE GLX	83.3	5.3	5.3	5.0	3.0	3.7	4.7	5.3	5.3	4.6
PPG-TF 267	85.0	5.0	5.0	5.0	3.0	4.3	5.3	5.0	4.7	4.6
PPG-TF 323	85.0	6.3	5.0	4.7	3.7	4.3	5.0	4.7	4.7	4.6
SETF104	85.0	4.7	5.0	4.7	3.3	4.3	5.0	5.0	4.7	4.6
BANDIT	88.3	3.3	4.7	4.7	2.3	3.7	5.3	5.3	5.3	4.5
BULLSEYE LTZ	81.7	4.7	4.7	4.3	2.7	4.3	5.0	5.3	5.3	4.5
DRAGSTER	85.0	6.7	5.0	5.0	4.0	3.7	4.3	4.7	4.7	4.5
K18-WB1	90.0	5.3	4.7	4.3	2.7	4.7	5.0	5.0	5.0	4.5
PPG-TF 262	80.0	4.7	4.7	4.7	3.0	4.3	5.0	5.0	5.0	4.5
PPG-TF 308	76.7	6.7	4.7	5.0	4.0	4.7	4.7	4.3	4.3	4.5
RAD-TF105	81.7	5.7	4.7	4.7	4.0	4.0	4.7	4.7	4.7	4.5
BULLSEYE	80.0	5.3	4.7	4.3	3.0	4.0	4.7	5.0	5.0	4.4
KENTUCKY-31	89.7	3.7	6.0	5.3	3.0	3.7	4.3	4.3	4.0	4.4
PPG-TF 320	75.0	4.3	4.7	4.7	3.0	3.7	4.7	5.0	5.0	4.4
PST-5DZM	81.7	3.7	4.7	4.7	2.7	4.0	5.0	5.0	4.7	4.4
RHF	90.0	7.0	5.3	5.7	4.3	3.7	4.0	4.0	3.7	4.4
K18-NSE	91.7	4.3	5.3	5.7	2.7	4.0	4.0	4.3	4.3	4.3
OKEEFE (LTP-TF-122)	85.0	6.3	5.0	5.7	4.0	3.7	4.0	4.0	4.0	4.3
OG-WALK	86.7	4.0	5.3	4.7	2.7	4.0	4.7	4.3	4.3	4.3
PPG-TF 238	75.0	4.7	4.7	4.7	3.0	4.0	4.7	4.7	4.3	4.3
PPG-TF 337	88.3	6.0	4.7	4.3	3.0	4.0	4.7	5.0	4.3	4.3
PST-5DC24	80.0	4.0	4.7	5.0	2.7	3.7	4.3	4.7	5.0	4.3
RHL2	73.3	6.7	4.7	5.3	4.0	4.0	4.0	4.0	4.0	4.3
RS1	91.7	4.7	4.7	4.3	3.3	4.0	4.3	4.7	5.0	4.3
NAI-3N2	71.7	4.7	4.7	4.0	3.0	4.3	4.3	4.7	4.3	4.2
PPG-TF 249	60.0	7.3	4.0	4.7	4.0	4.7	4.0	4.0	4.0	4.2
BAR 9FE MAS	90.0	5.3	4.7	4.3	3.3	4.0	4.0	4.3	4.3	4.1
AH2	81.7	3.3	5.0	4.7	2.7	3.7	4.3	4.0	4.0	4.0
GO-AOMK	83.3	4.0	4.7	4.7	2.7	3.7	3.7	4.3	4.3	4.0
HEMI	80.0	6.3	4.3	5.0	3.3	3.7	4.0	4.0	4.0	4.0
PST-5MINK	76.7	4.7	4.7	4.7	3.0	4.0	4.0	4.0	4.0	4.0
SE53D2	78.3	3.7	5.0	4.0	3.0	3.3	4.0	4.3	4.7	4.0
PPG-TF 336	73.3	4.3	4.3	4.3	2.3	3.3	3.3	3.7	3.7	3.6
DLFPS-321/3707	71.7	2.7	4.7	4.7	2.0	3.0	3.3	3.3	3.3	3.5
TURBO SS	76.7	5.0	4.0	4.0	2.3	3.0	3.7	3.7	3.3	3.4
LSD VALUE	54.2	13.5	2.4	2.6	5.6	10.6	13.1	12.5	11.5	7.0
C.V. (%)	13.0	38.5	11.5	13.5	32.7	32.5	35.3	33.0	32.1	22.2

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 2. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST AT STORRS, CT 1/
 2019 DATA

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

NAME	SEEDLING	QUALITY RATINGS							MEAN
	VIGOR	JUN	JUL	AUG	SEP	OCT	NOV		
DLFPS-TF/3553	4.0	6.0	6.3	6.7	6.7	7.0	7.0	6.6	
PPG-TF 336	5.0	5.3	6.7	6.7	7.0	7.3	.	6.6	
NAI-ROS4	5.3	5.7	6.7	6.7	6.7	6.7	7.0	6.5	
PPG-TF 315	4.7	6.0	6.3	6.7	7.0	6.7	.	6.5	
SETF104	4.7	5.7	6.3	6.7	7.0	7.0	.	6.5	
BGR-TF3	5.3	6.0	6.3	6.3	6.7	7.0	6.0	6.4	
PPG-TF 262	4.7	5.7	6.0	6.3	6.3	7.3	7.0	6.4	
AH2	6.3	5.3	6.3	6.3	6.7	6.7	.	6.3	
DLFPS-321/3693	5.3	5.7	6.0	6.3	6.3	6.7	8.0	6.3	
GRANDE 3	5.3	5.7	6.3	6.7	6.3	6.3	.	6.3	
PPG-TF 249	4.7	5.7	6.3	6.0	6.7	7.0	.	6.3	
COL-TF-148	4.0	5.3	5.7	6.7	6.3	7.0	.	6.2	
GO-RH20	5.7	5.7	6.0	6.0	6.3	7.0	.	6.2	
LBF	4.0	5.3	6.0	6.3	6.7	6.7	.	6.2	
PARAMOUNT	5.0	5.3	5.7	6.3	6.7	7.0	.	6.2	
PPG-TF 338	4.3	5.7	6.0	6.0	6.3	6.7	7.0	6.2	
PST-5TRN	4.0	5.7	6.3	6.0	6.7	6.0	6.0	6.2	
TD2	4.7	5.3	6.0	6.0	6.7	6.7	7.0	6.2	
ATF1768	4.7	5.7	5.7	6.0	6.3	7.0	6.0	6.1	
BULLSEYE	4.3	5.3	6.0	6.0	6.3	6.7	.	6.1	
DLFPS-321/3696	4.3	5.0	6.0	6.0	6.3	7.0	7.0	6.1	
DLFPS-321/3705	4.0	5.3	5.7	5.3	6.7	7.0	7.0	6.1	
NT-3	4.7	5.3	6.0	6.3	6.0	6.7	7.0	6.1	
PPG-TF 231	5.3	5.3	6.0	6.3	6.0	7.0	.	6.1	
PPG-TF 238	4.0	5.3	6.3	6.0	5.7	7.0	.	6.1	
PPG-TF 255	4.3	5.0	6.0	6.3	6.3	6.7	6.0	6.1	
PPG-TF 267	4.7	5.0	6.0	6.3	6.3	7.0	.	6.1	
PPG-TF 316	4.3	5.3	6.3	6.0	6.3	6.3	6.5	6.1	
PPG-TF 320	3.7	5.0	6.0	6.3	6.0	6.7	7.0	6.1	
RDC	5.3	6.0	5.7	6.0	6.3	6.7	.	6.1	
ZRC1	5.0	5.3	6.0	6.0	6.3	7.0	.	6.1	
AH1	5.3	5.3	5.7	5.7	6.3	7.0	.	6.0	
JS DTT	4.7	5.3	6.0	5.7	6.0	6.7	7.0	6.0	
K18-ROE	4.7	5.3	6.3	6.0	6.0	6.3	.	6.0	
PPG-TF 312	4.3	5.3	5.7	5.7	6.3	7.0	7.0	6.0	
PPG-TF 318	4.7	5.3	5.7	6.0	6.0	6.7	7.0	6.0	
PRO GOLD	4.7	5.3	5.3	6.7	6.0	6.7	6.0	6.0	
PST-5BYOB	5.7	5.3	6.0	6.0	6.0	6.3	6.0	6.0	
RHF	4.7	5.3	6.0	6.0	6.0	6.7	.	6.0	
RHL2	4.7	5.0	5.7	6.0	5.7	7.0	7.0	6.0	
SETFM3	4.3	5.3	6.0	6.0	6.3	6.3	.	6.0	
5LSS	5.0	5.3	5.7	5.7	6.7	6.3	.	5.9	
COPIOUS TF	4.3	5.3	5.7	6.0	5.7	6.3	7.0	5.9	
DLFPS-321/3694	4.7	5.0	5.7	6.0	6.0	6.7	.	5.9	
DLFPS-321/3701	5.0	5.3	5.7	5.7	6.3	6.3	.	5.9	

TABLE 2. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) IN THE 2018 NATIONAL TALL FESCUE TEST AT STORRS, CT 1/
 2019 DATA

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

NAME	SEEDLING	QUALITY RATINGS						MEAN
	VIGOR	JUN	JUL	AUG	SEP	OCT	NOV	
DLFPS-321/3708	3.7	5.3	6.0	5.3	6.0	6.7	6.0	5.9
ESCALADE	4.7	5.3	5.3	6.0	6.0	6.3	7.0	5.9
ESTRENA	4.3	5.3	5.7	5.7	6.3	6.7	.	5.9
K18-RS6	4.7	5.0	5.7	5.7	6.3	7.0	6.0	5.9
K18-WB1	4.0	5.0	5.7	5.7	6.3	6.7	6.0	5.9
MOONDANCE GLX	5.0	5.3	5.3	6.0	6.0	6.7	7.0	5.9
PPG-TF 254	4.7	5.3	5.3	5.7	6.0	6.3	7.0	5.9
PPG-TF 257	4.0	5.3	6.0	6.0	6.0	6.3	.	5.9
PST-5E6	4.3	5.3	5.7	5.7	6.3	6.3	.	5.9
PST-5MCMO	4.3	5.0	5.3	6.3	6.0	6.7	.	5.9
PST-5THM	5.0	5.0	6.0	6.0	6.0	6.7	.	5.9
RAD-TF105	5.0	5.3	6.0	6.0	6.0	6.3	.	5.9
RH3	4.0	5.0	5.7	5.3	6.3	6.7	7.0	5.9
RS1	4.7	5.0	5.3	6.0	6.0	6.7	7.0	5.9
BANDIT	3.7	5.0	5.7	5.7	6.0	6.3	7.0	5.8
BAR-FA8230	4.3	5.3	6.0	5.3	6.0	6.3	.	5.8
DLFPS-321/3679	4.0	5.3	6.0	5.7	5.7	6.3	.	5.8
DLFPS-TF/3550	4.3	5.0	5.7	5.7	6.0	6.7	.	5.8
DLFPS-TF/3552	3.3	5.3	6.0	5.7	5.7	6.3	.	5.8
DRAGSTER	3.7	5.0	5.3	5.7	6.0	6.7	7.0	5.8
JT 517	4.7	5.0	5.7	6.0	5.7	6.7	.	5.8
DEGAS (LTP-TF-111)	4.0	5.0	5.3	5.7	5.7	6.7	7.0	5.8
NAI-3N2	4.0	5.3	5.7	5.7	5.7	6.7	6.0	5.8
NAI-TUE	4.7	5.3	6.0	5.3	5.7	6.3	6.0	5.8
NATURALLY GREEN	4.7	5.3	5.7	5.7	6.0	6.0	6.5	5.8
PPG-TF 305	4.7	5.0	5.7	5.7	5.7	6.7	6.0	5.8
PST-5DC24	4.7	5.3	5.7	6.0	5.7	6.3	.	5.8
PST-5MINK	4.7	5.0	5.7	5.3	6.3	6.3	7.0	5.8
SE53D2	4.0	5.3	6.0	5.7	5.7	6.3	.	5.8
TF445	4.3	5.0	6.0	5.7	5.7	6.7	.	5.8
TF456	3.3	5.3	5.3	6.0	5.3	6.7	7.0	5.8
3B2	4.3	5.0	5.7	5.7	5.7	6.3	6.0	5.7
A-TF31	4.0	5.0	5.7	5.7	5.7	6.3	.	5.7
BAR FA 8228	4.7	5.3	5.7	5.7	5.7	6.0	.	5.7
BIRMINGHAM	4.0	5.0	5.7	6.0	6.0	6.0	6.0	5.7
BRAVO 2	4.3	5.0	5.7	5.7	6.0	6.3	6.0	5.7
BULLSEYE LTZ	4.7	5.0	5.0	5.3	6.0	6.7	7.0	5.7
BY-TF-169	4.3	5.0	5.7	5.3	6.0	6.3	6.0	5.7
DLFPS-321/3695	5.0	5.0	5.7	5.3	6.0	6.7	.	5.7
DLFPS-321/3699	4.0	5.3	5.3	5.7	6.0	6.3	.	5.7
DLFPS-321/3706	4.0	5.0	5.3	5.7	6.0	6.3	.	5.7
DLFPS-321/3707	3.7	5.0	6.3	5.3	5.7	6.3	.	5.7
FAYETTE	4.7	5.0	5.3	5.7	6.0	6.7	.	5.7
FIREHAWK SLT	3.7	5.0	5.3	5.3	6.0	6.7	6.0	5.7
GLX ACED (PST-5DART)	5.0	5.3	5.7	5.7	5.3	6.3	.	5.7

TABLE 2. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) IN THE 2018 NATIONAL TALL FESCUE TEST AT STORRS, CT 1/
2019 DATA

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

NAME	SEEDLING	QUALITY RATINGS						NOV	MEAN
	VIGOR	JUN	JUL	AUG	SEP	OCT			
GRAND PRIX (FC15-01P)	3.7	5.3	5.3	5.7	5.7	6.3	.	5.7	
JT 268	4.3	5.0	5.3	5.7	6.0	6.3	.	5.7	
LIFEGUARD	4.7	5.3	5.3	5.7	6.0	6.3	.	5.7	
OKEEFE (LTP-TF-122)	3.7	5.0	5.3	6.0	5.7	6.3	.	5.7	
NAI-ST5	4.7	5.0	5.3	5.7	6.0	6.7	.	5.7	
PADRE 2	4.0	5.3	5.7	5.7	5.7	6.3	.	5.7	
PALOMAR	4.0	5.3	5.7	5.3	6.0	6.0	6.0	5.7	
PPG-TF 244	4.3	5.3	5.7	6.0	5.3	6.3	.	5.7	
PPG-TF 308	4.0	5.3	5.7	5.7	6.0	6.0	.	5.7	
PPG-TF 313	3.7	5.0	5.7	5.3	5.7	6.7	.	5.7	
PPG-TF 337	4.7	5.7	5.3	5.7	5.3	6.3	.	5.7	
PST-5GLBS	4.3	5.0	5.7	5.7	6.0	6.3	.	5.7	
RH1	5.0	5.0	5.3	5.7	6.0	6.7	.	5.7	
3N1	4.0	5.0	5.3	5.3	5.7	6.3	6.0	5.6	
BAR TF 134	3.0	5.3	5.7	5.0	5.7	6.3	.	5.6	
DLFPS-321/3703	3.7	5.0	5.3	5.7	5.3	6.3	6.0	5.6	
HEMI	4.3	5.0	5.0	5.3	6.0	6.3	6.0	5.6	
JT 233	4.3	5.0	5.0	5.7	6.0	6.3	.	5.6	
K18-NSE	4.3	5.0	5.3	6.0	5.7	6.0	.	5.6	
OG-WALK	3.7	5.0	5.3	5.3	6.0	6.3	6.0	5.6	
PPG-TF 306	4.3	5.3	5.0	5.0	6.0	6.7	6.0	5.6	
PPG-TF 323	4.0	5.0	5.0	5.3	5.7	6.3	7.0	5.6	
RAPTOR III	3.3	5.0	5.3	5.3	5.3	6.3	6.5	5.6	
SE5STAR	4.3	5.0	5.3	5.3	6.3	6.0	6.0	5.6	
SESCR1	4.0	5.0	5.0	5.3	5.7	6.7	7.0	5.6	
SETFM2	3.3	5.0	5.7	5.7	5.3	6.3	.	5.6	
TANGO	4.7	5.0	6.0	5.7	5.3	6.0	.	5.6	
TURBO SS	4.7	5.0	5.7	5.3	6.0	6.0	6.0	5.6	
ATF2116	4.0	5.0	5.0	6.0	5.3	6.0	6.0	5.5	
NAI-FQZ-17	3.7	5.0	5.0	5.7	5.7	6.3	.	5.5	
PST-5DZM	4.3	5.0	5.3	5.3	5.3	6.3	.	5.5	
PST-5SQB	4.3	5.0	5.3	5.7	5.3	6.3	.	5.5	
TMT1	5.0	5.3	5.0	5.3	5.7	6.3	.	5.5	
AST8118LM	4.3	5.0	5.3	5.3	5.3	6.0	6.0	5.4	
AST8218LM	4.0	5.0	5.3	5.3	5.0	6.3	.	5.4	
BAR 9FE MAS	5.3	5.0	5.3	5.0	5.7	6.0	.	5.4	
PST-5GQ	4.0	5.0	5.3	5.3	5.3	6.0	.	5.4	
RC4	4.0	5.0	5.0	5.3	5.7	6.0	.	5.4	
DLFPS-321/3702	3.3	4.7	5.3	5.0	5.3	6.3	.	5.3	
GO-AOMK	3.7	5.0	5.0	5.0	5.3	6.3	.	5.3	
RAD-TF131	4.3	5.0	5.3	4.7	5.0	6.3	6.0	5.3	
KENTUCKY-31	5.7	4.3	4.7	4.3	4.0	4.3	.	4.3	
LSD VALUE	2.5	1.6	2.8	2.0	1.8	1.5	1.0	1.1	
C.V. (%)	19.2	8.3	11.6	11.3	11.0	8.2	4.8	7.3	

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

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

TABLE 3.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT NEWARK, DE 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	BROWN PATCH	PERCENT ESTABLISHMENT	QUALITY RATINGS								MEAN
					MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
AH2	6.0	6.3	7.0	80.0	4.7	6.7	7.3	7.3	5.7	7.0	7.7	8.0	6.8
PST-5E6	5.7	5.0	6.0	80.0	5.7	6.7	7.0	7.7	5.0	7.3	7.0	8.0	6.8
RH3	6.3	5.7	7.3	76.7	4.3	6.3	7.3	8.0	6.7	6.3	6.7	7.3	6.6
TD2	7.0	6.3	7.0	75.0	4.3	6.3	7.3	8.0	6.3	6.7	6.0	7.7	6.6
3B2	7.0	4.7	6.7	70.0	4.3	6.3	7.3	7.3	6.0	6.7	6.7	7.7	6.5
5LSS	6.0	6.0	6.3	75.0	5.0	6.0	6.7	7.3	6.0	6.0	7.3	7.3	6.5
BULLSEYE LTZ	6.7	6.0	7.3	73.3	4.3	5.3	6.7	7.3	6.3	7.3	7.0	7.3	6.5
HEMI	6.7	5.0	7.0	68.3	4.7	6.3	7.0	7.3	5.7	6.3	6.7	7.7	6.5
BONFIRE (JS DTT)	7.0	5.0	4.3	80.0	5.3	6.3	7.3	7.7	4.0	7.0	6.3	7.7	6.5
LIFEGUARD	6.0	5.0	6.3	68.3	4.3	5.7	7.7	7.3	5.7	6.7	6.7	7.7	6.5
NT-3	6.3	6.3	7.0	73.3	4.7	6.0	7.3	7.7	6.0	6.7	6.3	7.0	6.5
PPG-TF 238	7.0	6.3	7.0	71.7	4.3	5.7	6.7	7.0	6.7	7.3	6.0	8.0	6.5
PPG-TF 254	7.0	5.3	6.7	75.0	5.0	6.7	7.3	7.3	6.0	6.0	6.3	7.7	6.5
PPG-TF 305	7.0	5.7	7.3	71.7	4.7	6.3	7.7	7.3	6.3	6.0	6.0	7.3	6.5
PPG-TF 308	7.0	5.7	6.3	75.0	5.3	6.0	7.3	7.3	5.3	6.3	6.7	7.7	6.5
PPG-TF 312	6.7	6.0	6.7	70.0	4.0	5.7	7.0	8.0	6.0	6.0	7.3	7.7	6.5
PPG-TF 320	7.3	5.3	6.7	71.7	4.0	5.7	7.3	7.7	6.0	6.7	7.0	8.0	6.5
PST-5BYOB	6.3	4.7	7.0	70.0	4.0	6.3	7.0	7.3	6.0	6.7	7.0	7.3	6.5
PST-5MCMO	6.3	5.0	6.0	81.7	5.3	6.3	7.0	7.3	5.0	6.7	6.7	7.7	6.5
DLFPS-321/3695	5.7	6.0	7.0	73.3	4.7	5.7	7.0	7.3	6.0	6.7	6.3	7.7	6.4
PPG-TF 306	7.3	6.0	7.3	71.7	4.0	5.7	7.0	7.3	6.7	6.3	6.7	7.7	6.4
PPG-TF 313	7.3	6.3	6.0	66.7	4.3	6.7	6.7	7.3	6.0	6.0	6.3	7.7	6.4
PPG-TF 336	7.0	6.3	7.3	73.3	4.0	6.3	6.3	7.7	7.0	6.7	6.0	7.3	6.4
PST-5THM	6.0	4.7	6.3	68.3	4.7	5.7	6.7	7.3	6.0	6.3	6.7	7.7	6.4
TF445	6.3	5.7	7.3	71.7	4.0	5.7	6.7	7.3	6.7	6.7	6.3	8.0	6.4
ZRC1	6.3	5.7	7.3	73.3	4.3	6.3	6.3	7.3	6.3	6.7	6.7	7.0	6.4
BANDIT	7.7	5.7	5.3	78.3	5.3	7.0	7.0	7.7	4.7	5.7	5.7	7.3	6.3
DLFPS-321/3693	6.7	6.0	7.3	68.3	4.3	6.0	7.0	7.3	6.0	6.7	6.3	6.7	6.3
DLFPS-321/3694	6.7	6.0	7.3	75.0	5.0	6.0	6.7	7.0	6.0	6.7	5.3	7.3	6.3
DLFPS-TF/3550	6.7	5.3	7.0	68.3	4.7	5.3	6.3	6.7	6.0	6.7	7.0	7.7	6.3
DLFPS-TF/3553	7.0	5.7	6.0	70.0	4.3	5.0	6.7	7.7	6.0	6.3	6.7	7.3	6.3
DRAGSTER	6.7	5.3	7.0	66.7	4.7	5.7	6.3	7.3	6.0	6.7	6.0	7.7	6.3
JT 233	7.0	5.7	7.7	66.7	4.0	5.3	7.0	7.3	6.7	6.7	6.0	7.7	6.3
JT 268	7.0	5.7	7.0	68.3	3.7	5.0	6.3	7.0	6.3	7.0	7.3	8.0	6.3
K18-NSE	6.0	6.0	7.3	73.3	4.7	6.0	6.7	7.3	6.3	7.0	5.3	7.0	6.3
K18-RS6	6.3	5.0	6.3	71.7	4.0	6.0	7.0	7.3	6.0	5.7	6.7	8.0	6.3
PPG-TF 262	6.7	5.7	7.3	70.0	4.0	6.0	6.7	7.7	6.0	6.7	6.0	7.7	6.3
PPG-TF 316	7.3	6.3	7.0	66.7	3.7	6.0	6.7	7.0	6.0	6.7	6.7	7.7	6.3
PPG-TF 337	6.7	6.3	7.0	76.7	4.3	6.0	7.0	7.3	6.3	7.0	5.7	7.0	6.3
RC4	6.7	6.0	7.3	75.0	4.0	5.7	6.7	7.0	6.0	7.3	6.3	7.7	6.3
RDC	6.0	5.3	6.7	75.0	4.7	5.7	6.3	7.0	5.7	6.3	7.0	7.7	6.3
RS1	6.3	5.0	5.3	73.3	5.0	6.3	6.7	7.3	4.7	6.3	6.3	7.3	6.3
SE53D2	6.3	5.0	6.7	71.7	4.3	6.7	6.7	7.3	6.0	6.7	5.7	7.3	6.3
BULLSEYE	7.3	5.0	5.7	73.3	4.7	6.3	7.3	7.3	5.3	5.7	6.0	7.0	6.2
COL-TF-148	6.7	5.7	5.7	73.3	4.7	6.0	6.7	7.0	4.7	6.7	6.3	7.7	6.2

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT NEWARK, DE 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	BROWN PATCH	PERCENT ESTABLISHMENT	QUALITY RATINGS								MEAN
					MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-321/3701	6.7	6.0	7.0	70.0	3.7	5.7	6.7	7.0	6.0	6.3	6.7	7.7	6.2
DLFPS-321/3702	7.0	5.3	5.3	70.0	4.0	6.0	7.3	7.0	4.7	6.7	6.7	7.3	6.2
DLFPS-321/3705	6.3	5.0	6.7	61.7	4.0	5.0	6.0	6.7	5.7	7.7	6.3	8.0	6.2
GO-RH20	7.0	6.3	7.7	73.3	4.7	5.7	6.7	6.7	6.7	6.7	5.3	7.0	6.2
NAI-ROS4	6.3	5.3	7.0	66.7	4.3	6.0	7.0	7.0	6.3	5.7	6.0	7.0	6.2
NAI-TUE	7.7	4.7	5.7	73.3	4.0	6.7	7.3	7.7	5.3	5.3	6.0	7.0	6.2
PPG-TF 323	7.3	5.3	5.0	70.0	4.0	6.3	6.7	8.0	5.0	6.0	6.0	7.7	6.2
PRO GOLD	6.0	5.0	5.3	75.0	5.0	6.7	7.0	7.0	5.0	6.0	6.0	6.7	6.2
TANGO	7.0	5.0	5.3	70.0	4.7	6.3	7.0	7.3	4.7	6.3	6.3	7.0	6.2
TF456	6.3	6.0	7.0	68.3	4.3	5.0	6.0	6.7	6.3	7.3	6.3	7.7	6.2
DLFPS-TF/3552	7.0	6.0	6.7	70.0	4.3	5.7	6.7	7.0	5.7	6.0	6.3	7.0	6.1
JT 517	7.7	5.0	7.0	68.3	4.7	5.7	6.3	6.7	5.3	6.7	6.3	7.0	6.1
OKEEFE (LTP-TF-122)	6.3	5.7	7.3	65.0	4.3	5.3	6.3	6.7	6.0	6.3	6.3	7.3	6.1
PPG-TF 315	7.3	5.7	5.7	65.0	3.7	5.7	6.7	8.0	5.0	6.0	6.7	7.3	6.1
PPG-TF 318	7.0	5.3	6.3	70.0	3.7	5.3	6.0	7.3	6.0	6.7	6.3	7.3	6.1
PPG-TF 338	7.3	5.3	5.7	75.0	4.7	6.3	7.0	7.7	5.0	5.3	5.3	7.3	6.1
PST-5GQ	6.3	5.0	4.7	75.0	4.7	6.0	6.7	7.0	4.0	6.7	6.3	7.3	6.1
RHF	6.7	5.7	6.0	68.3	4.7	5.7	6.0	7.0	5.7	7.0	6.3	6.7	6.1
3N1	7.0	5.0	6.3	70.0	4.3	6.0	7.0	7.3	5.3	5.7	6.0	6.7	6.0
ATF1768	7.0	5.0	5.7	66.7	4.0	5.3	6.7	6.7	5.0	6.7	6.3	7.0	6.0
BAR-FA8230	6.7	5.0	6.7	66.7	4.3	6.3	6.7	6.3	5.3	6.0	6.3	7.0	6.0
DLFPS-321/3679	7.7	5.7	5.3	68.3	5.0	6.7	7.0	7.7	4.7	5.7	4.7	6.7	6.0
DLFPS-321/3699	7.3	6.0	6.0	76.7	4.3	6.3	7.0	7.3	5.3	5.7	5.3	6.7	6.0
DLFPS-321/3706	5.7	6.0	6.3	71.7	4.0	5.7	6.3	6.3	5.0	6.7	6.3	7.3	6.0
DLFPS-321/3707	6.7	6.0	6.3	71.7	4.0	5.3	6.3	6.7	5.3	6.7	6.3	7.3	6.0
DLFPS-321/3708	7.7	6.0	6.0	68.3	3.7	5.3	6.0	6.7	5.3	6.7	6.3	7.7	6.0
FIREHAWK SLT	7.0	5.3	6.0	73.3	4.0	5.7	7.0	6.7	5.7	6.3	5.7	7.0	6.0
GLX ACED (PST-5DART)	6.3	5.0	6.3	70.0	4.3	5.7	6.7	7.7	5.7	6.0	5.7	6.3	6.0
K18-ROE	7.0	4.7	6.3	73.3	5.0	6.0	7.0	7.0	5.7	6.0	5.0	6.7	6.0
K18-WB1	7.0	5.7	6.3	71.7	4.3	5.7	6.3	6.7	5.3	6.0	6.3	7.7	6.0
LBF	7.7	5.3	4.7	73.3	5.3	6.7	7.3	7.3	4.7	5.3	5.3	6.3	6.0
DEGAS (LTP-TF-111)	6.7	5.3	6.7	66.7	4.3	6.0	6.7	7.0	6.0	5.7	5.7	7.0	6.0
NAI-3N2	7.3	4.7	6.3	70.0	4.7	5.7	7.0	7.3	5.3	5.3	5.7	6.7	6.0
PADRE 2	7.0	5.3	7.0	73.3	4.7	5.7	6.7	6.7	6.0	5.7	6.0	6.7	6.0
PPG-TF 249	6.7	5.3	6.3	71.7	4.3	6.3	7.3	7.0	5.0	6.0	5.3	6.7	6.0
PPG-TF 255	7.3	5.7	6.7	65.0	4.3	5.3	6.0	7.0	5.7	6.7	6.0	7.3	6.0
PPG-TF 257	7.0	6.0	7.0	68.3	3.3	5.3	6.7	7.0	6.0	6.7	6.0	7.3	6.0
PST-5TRN	6.7	5.3	6.0	68.3	4.0	6.0	6.3	7.0	5.3	6.3	6.0	7.3	6.0
SESCR1	6.7	5.0	7.3	66.7	4.3	5.7	5.7	6.7	6.0	6.7	6.3	7.0	6.0
SETF104	7.3	5.0	5.7	71.7	4.3	6.3	6.7	7.3	4.7	5.3	6.0	7.0	6.0
TMT1	6.3	5.3	6.3	78.3	4.7	6.0	6.7	7.3	5.7	6.0	5.3	6.3	6.0
BAR FA 8228	6.7	4.3	4.0	75.0	4.7	6.0	7.0	6.7	4.0	5.7	6.7	6.7	5.9
DLFPS-321/3696	7.3	5.3	5.0	71.7	4.0	6.0	7.3	7.3	4.7	5.3	5.7	7.0	5.9
DLFPS-321/3703	6.3	5.7	5.7	66.7	4.0	6.0	6.3	7.0	5.0	6.3	5.7	6.7	5.9
GRANDE 3	6.3	5.0	7.3	66.7	4.7	5.3	6.0	6.7	5.3	6.7	5.3	7.0	5.9

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT NEWARK, DE 1/
2019 DATA

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

NAME	QUALITY RATINGS												MEAN
	GENETIC COLOR	LEAF TEXTURE	BROWN PATCH	PERCENT ESTABLISHMENT	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
MOONDANCE GLX	6.7	5.3	7.7	68.3	4.0	5.7	6.3	6.7	6.0	6.3	5.7	6.7	5.9
NAI-ST5	6.7	5.7	5.3	68.3	4.0	5.3	6.3	6.7	4.3	6.3	6.3	7.7	5.9
PALOMAR	6.7	4.3	6.3	70.0	4.3	6.3	7.0	6.7	5.3	5.7	5.7	6.3	5.9
PPG-TF 231	7.3	5.3	7.0	70.0	4.7	5.3	6.3	6.7	6.3	5.0	5.7	7.0	5.9
PPG-TF 267	7.0	5.7	5.7	63.3	3.7	5.7	7.0	7.3	5.3	5.3	5.7	7.3	5.9
PST-5GLBS	6.3	5.7	4.7	76.7	5.3	7.0	6.7	6.7	4.3	6.0	5.0	6.3	5.9
RH1	7.0	5.0	6.0	73.3	4.3	6.0	6.3	6.7	5.3	5.7	5.7	7.3	5.9
RHL2	6.7	6.0	6.3	66.7	4.3	5.0	5.7	6.7	5.7	6.3	6.0	7.3	5.9
AH1	6.7	5.3	5.7	70.0	4.3	5.0	5.7	7.0	4.7	6.7	5.7	7.3	5.8
ATF2116	6.7	5.3	6.3	71.7	4.7	6.0	6.0	6.3	5.3	6.0	5.0	6.7	5.8
BAR TF 134	6.3	5.7	8.0	65.0	3.7	4.7	5.7	7.0	6.3	6.0	6.0	6.7	5.8
BIRMINGHAM	7.0	5.3	5.0	70.0	4.7	6.3	6.3	6.7	4.3	5.7	6.0	6.7	5.8
COPIOUS TF	7.0	5.3	5.7	70.0	4.0	6.0	6.7	7.0	4.7	5.0	5.7	7.0	5.8
GRAND PRIX (FC15-01P)	7.0	4.7	5.3	68.3	4.3	5.0	6.0	7.0	5.0	5.7	6.0	7.0	5.8
PARAMOUNT	6.7	5.0	6.7	71.7	4.7	6.0	6.7	7.0	5.7	6.0	5.0	5.7	5.8
PPG-TF 244	6.7	5.0	4.7	65.0	4.3	5.3	5.7	6.0	4.3	6.0	7.0	7.3	5.8
PST-5MINK	6.7	5.0	5.3	73.3	4.3	6.0	7.3	7.0	4.7	5.7	5.7	6.0	5.8
RAD-TF105	7.7	5.7	6.0	71.7	4.3	6.0	6.3	6.7	5.3	5.7	5.3	7.0	5.8
SE5STAR	7.0	4.7	4.7	71.7	4.7	6.0	6.7	7.3	4.3	5.0	5.7	6.3	5.8
BGR-TF3	7.7	4.7	3.7	71.7	4.7	5.7	6.7	6.7	3.7	5.7	5.7	6.7	5.7
ESTRENA	6.0	5.3	5.7	68.3	4.0	6.0	6.3	6.7	5.3	5.0	6.0	6.3	5.7
AST8218LM	7.7	4.7	5.7	68.3	3.7	5.7	6.3	6.3	4.3	5.7	6.0	7.0	5.6
BAR 9FE MAS	7.3	4.7	6.0	70.0	3.7	5.3	7.3	7.0	5.3	4.7	5.3	6.3	5.6
BY-TF-169	7.0	5.7	6.3	63.3	3.7	5.3	6.3	6.3	5.0	6.0	5.0	7.0	5.6
KENTUCKY-31	4.3	3.0	6.0	83.3	5.0	6.3	5.3	6.0	5.3	6.0	5.7	5.0	5.6
NAI-FQZ-17	7.3	4.3	4.0	75.0	4.7	5.7	6.7	7.0	3.7	5.3	5.7	6.3	5.6
NATURALLY GREEN	7.7	4.7	6.0	70.0	4.7	6.0	6.0	6.7	4.3	5.7	5.3	6.3	5.6
RAD-TF131	7.3	5.3	5.7	75.0	4.3	6.0	6.7	7.0	5.0	4.7	5.0	6.3	5.6
BRAVO 2	7.0	4.7	4.7	70.0	4.3	5.3	6.0	6.7	4.3	5.3	5.7	6.7	5.5
FAYETTE	7.0	5.0	5.0	78.3	4.3	5.7	6.7	6.3	4.3	4.7	5.7	6.3	5.5
PST-5DC24	7.0	5.0	6.0	68.3	4.3	5.0	5.7	7.0	5.0	5.3	6.0	6.0	5.5
PST-5SQB	6.3	5.0	5.7	70.0	4.7	5.7	6.3	6.7	5.0	5.0	5.0	6.0	5.5
RAPTOR III	6.7	5.3	5.3	70.0	4.3	5.3	5.7	6.7	4.7	5.7	5.3	6.7	5.5
SETFM3	7.3	5.0	5.0	66.7	3.7	5.7	6.3	6.3	4.3	5.0	5.7	7.0	5.5
TURBO SS	7.7	5.0	6.3	70.0	4.0	5.0	6.0	6.7	5.3	5.7	5.3	6.3	5.5
AST8118LM	8.0	5.0	6.0	65.0	4.0	5.7	6.0	6.7	5.0	4.7	5.0	6.0	5.4
OG-WALK	6.3	4.0	5.3	65.0	3.7	5.3	5.7	6.3	5.0	5.3	5.0	6.7	5.4
SETFM2	7.3	4.7	6.7	71.7	4.0	6.0	6.3	6.3	5.3	4.7	4.7	6.0	5.4
PST-5DZM	6.7	5.0	6.3	73.3	4.0	5.0	5.7	6.3	4.7	5.0	5.0	6.7	5.3
ESCALADE	7.0	4.0	3.7	71.7	4.7	6.0	6.0	7.0	3.3	3.7	5.0	5.7	5.2
GO-AOMK	7.3	5.0	4.3	63.3	3.7	4.7	6.0	6.3	3.7	4.3	4.7	6.0	4.9
A-TF31	8.0	5.0	5.7	65.0	3.3	4.7	5.7	6.0	4.0	3.3	4.3	4.3	4.5
LSD VALUE	0.8	0.9	4.4	12.3	2.1	2.5	2.0	2.5	3.1	2.0	2.3	1.8	1.0
C.V. (%)	7.3	9.8	22.6	7.5	15.6	13.1	11.1	10.1	20.7	15.5	15.2	11.6	7.9

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

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

TABLE 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT GRIFFIN, GA 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
COL-TF-148	7.3	6.3	6.7	7.3	7.3	7.3	6.3	6.7	6.7	7.0	7.0	7.0	6.7	6.9
AH2	7.3	6.3	6.3	7.0	7.0	7.3	6.7	7.3	6.7	7.0	6.7	7.0	6.7	6.8
PPG-TF 337	7.3	6.7	6.3	7.3	7.0	7.3	6.3	6.3	7.0	7.0	6.3	6.7	6.7	6.8
TMT1	7.7	6.7	7.0	7.3	7.3	7.0	6.3	6.3	6.3	6.3	6.7	6.7	7.0	6.8
K18-WB1	7.3	6.3	6.7	6.7	7.0	6.7	6.7	6.7	7.3	6.7	6.7	6.3	6.3	6.7
NAI-ST5	7.3	6.7	6.7	6.7	7.0	7.0	6.7	6.3	6.7	6.3	6.7	6.7	7.0	6.7
PPG-TF 262	7.3	6.3	6.3	6.7	7.0	7.0	6.3	6.7	6.7	7.0	6.7	6.7	6.7	6.7
BY-TF-169	7.3	6.0	6.7	6.7	7.3	6.7	6.3	6.7	7.0	7.0	6.3	6.0	6.0	6.6
PPG-TF 255	7.0	6.7	6.3	6.3	6.7	6.3	6.3	6.3	6.3	6.3	7.0	7.0	7.0	6.6
PPG-TF 336	8.0	6.7	7.0	7.0	7.0	7.0	6.7	6.7	6.3	6.3	6.3	6.0	6.0	6.6
TD2	7.0	6.7	6.7	6.3	6.3	7.0	6.3	6.7	6.3	6.3	6.3	6.7	7.0	6.6
BRAVO 2	7.0	6.3	6.3	6.3	7.0	7.0	6.3	7.0	6.3	6.0	6.3	6.3	6.3	6.5
DLFPS-321/3701	7.7	6.3	6.7	6.3	6.3	6.3	6.0	6.3	6.7	6.7	6.7	6.7	6.7	6.5
JT 268	7.0	6.0	6.7	6.0	6.3	6.7	6.0	6.3	6.3	6.3	7.0	7.0	7.0	6.5
PPG-TF 249	7.0	6.3	6.3	6.0	6.0	7.0	6.3	6.7	6.7	6.7	6.7	7.0	6.7	6.5
RHF	7.3	6.7	7.0	6.7	6.7	6.7	6.3	6.0	6.3	6.3	6.3	6.7	6.3	6.5
BONFIRE (JS DTT)	6.3	6.3	6.3	6.0	6.3	6.3	6.0	6.3	6.3	6.0	6.3	7.0	7.3	6.4
JT 233	7.3	6.3	6.7	6.7	6.7	6.7	6.3	6.7	6.3	6.0	5.7	6.0	6.7	6.4
K18-NSE	7.0	6.7	7.0	6.7	6.3	6.3	6.0	6.0	6.7	6.7	6.0	6.3	6.3	6.4
PPG-TF 244	7.3	6.3	6.3	6.0	6.3	6.3	6.0	7.0	6.3	6.3	6.7	7.0	7.0	6.4
PPG-TF 267	7.7	6.3	7.0	6.7	7.0	6.7	7.3	7.0	6.7	7.0	6.3	4.7	4.7	6.4
PPG-TF 315	8.0	6.3	7.0	6.7	6.7	6.7	6.3	6.0	6.3	6.3	6.3	6.3	6.3	6.4
PST-5GQ	7.7	6.0	7.0	7.0	7.3	6.7	6.3	6.3	6.0	6.0	6.0	6.3	6.3	6.4
SE53D2	8.0	7.0	7.0	6.3	6.3	6.7	6.0	6.3	6.3	6.3	6.3	6.0	6.0	6.4
SETF104	7.3	6.7	6.3	6.7	6.7	7.0	6.3	6.0	6.0	6.3	6.0	6.3	6.0	6.4
TF445	7.0	6.0	6.3	6.3	7.0	7.0	6.0	6.0	6.3	6.3	6.0	6.7	7.0	6.4
5LSS	6.7	6.3	6.7	6.7	7.0	6.7	6.3	6.3	6.7	6.0	5.3	5.7	5.7	6.3
DLFPS-321/3696	7.7	6.3	6.7	6.7	6.7	6.3	6.3	6.3	6.0	6.0	6.0	6.0	6.0	6.3
DLFPS-321/3702	6.3	5.7	5.7	5.7	6.0	6.3	6.0	6.3	6.3	6.3	6.3	7.0	7.3	6.3
FIREHAWK SLT	7.7	6.7	6.7	6.3	6.7	6.7	6.3	6.3	6.3	6.3	5.7	6.0	6.0	6.3
GO-RH20	6.7	5.7	6.0	6.3	6.3	6.3	6.0	6.0	6.7	6.7	6.7	6.7	6.3	6.3
HEMI	7.3	6.7	6.7	6.7	6.7	6.7	6.3	6.7	6.3	6.0	5.7	5.7	6.0	6.3
K18-RS6	7.0	6.0	6.7	6.3	6.3	6.0	5.7	6.0	6.3	6.3	6.3	6.7	6.7	6.3
DEGAS (LTP-TF-111)	7.3	6.3	6.3	5.7	6.7	6.3	6.0	6.3	6.7	6.3	6.3	6.0	6.0	6.3
OKEEFE (LTP-TF-122)	7.0	6.0	7.0	6.0	6.0	6.3	6.0	6.3	6.3	6.3	6.3	6.7	6.3	6.3
NAI-TUE	7.3	6.7	6.7	6.0	6.7	6.7	6.3	6.3	6.0	6.0	5.7	6.0	6.3	6.3
PPG-TF 238	6.7	6.0	6.3	6.0	6.0	6.3	6.0	5.7	6.3	6.3	6.3	6.7	7.0	6.3
PPG-TF 254	7.3	6.0	6.7	6.3	6.3	6.3	5.7	6.0	6.3	6.3	6.3	6.0	6.7	6.3
PST-5GLBS	8.0	6.3	6.7	6.3	6.3	6.3	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.3
RAD-TF105	7.3	6.3	6.7	6.3	6.3	6.7	6.0	6.3	6.0	6.0	5.7	6.3	6.3	6.3
RH3	6.3	6.3	6.3	6.3	6.3	6.3	5.7	6.0	6.0	6.3	6.3	6.7	7.0	6.3
TANGO	7.3	6.7	6.7	6.0	6.7	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.3
BAR TF 134	6.3	6.0	6.0	6.0	5.7	6.0	6.0	6.0	6.3	6.3	6.3	7.0	6.3	6.2
DLFPS-321/3695	7.0	6.0	6.0	6.3	6.3	6.3	6.0	6.3	5.7	6.0	6.3	6.3	6.3	6.2
DLFPS-321/3705	7.0	6.3	6.7	5.7	6.0	6.0	5.7	6.0	6.3	6.3	6.3	6.7	6.7	6.2

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT GRIFFIN, GA 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
DLFPS-TF/3553	7.3	6.0	6.7	6.0	6.3	6.3	6.0	6.3	6.0	6.0	6.3	6.0	6.0	6.2
K18-ROE	6.7	6.0	6.3	6.7	6.7	6.7	6.0	6.0	6.3	5.7	5.7	6.0	6.0	6.2
LIFEGUARD	7.0	6.3	6.3	6.0	6.0	6.3	6.3	6.0	6.3	6.0	6.3	6.3	6.0	6.2
NAI-ROS4	7.0	6.0	6.0	6.0	6.7	6.3	6.0	6.0	6.3	6.0	6.3	6.7	6.3	6.2
PPG-TF 306	7.3	6.7	6.7	6.0	6.0	6.0	5.7	6.3	6.0	6.0	6.3	6.3	6.7	6.2
PPG-TF 308	6.3	6.0	6.0	6.0	5.7	6.0	6.0	6.0	6.3	6.3	6.3	6.7	6.7	6.2
PPG-TF 318	7.0	6.0	6.0	6.0	6.0	6.3	6.3	6.3	6.3	6.0	6.3	6.0	6.3	6.2
PPG-TF 323	6.0	5.7	6.0	5.7	6.3	6.3	5.7	6.0	6.7	6.7	6.3	6.7	6.7	6.2
PST-5DC24	7.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.7	5.7	5.7	6.3	6.3	6.2
RHL2	6.3	6.3	6.3	5.7	5.7	5.7	5.7	6.3	6.3	6.7	6.3	7.0	6.7	6.2
ZRC1	6.7	5.7	6.3	5.7	5.7	6.0	5.7	6.7	6.7	6.7	6.7	6.3	6.7	6.2
AH1	6.7	6.0	6.0	5.3	5.7	6.0	5.7	6.3	6.0	6.0	6.3	6.7	6.7	6.1
AST8218LM	7.3	6.3	6.7	6.7	6.7	6.7	6.3	6.3	5.7	5.3	5.0	5.0	6.0	6.1
ATF2116	7.3	6.0	6.3	6.3	6.0	6.7	5.7	5.7	5.7	5.7	6.0	6.3	6.3	6.1
BGR-TF3	7.7	6.7	7.0	6.7	7.0	7.0	6.3	6.3	5.7	5.0	4.7	5.3	5.7	6.1
BIRMINGHAM	7.0	6.7	6.3	6.3	6.3	6.7	6.0	6.0	5.7	5.7	5.7	5.7	6.3	6.1
DLFPS-321/3699	7.0	5.7	6.0	5.7	6.0	6.3	5.7	6.0	6.3	6.3	6.0	6.3	6.3	6.1
DLFPS-321/3707	7.3	6.3	6.3	6.0	6.0	6.3	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.1
DLFPS-321/3708	6.7	5.7	6.0	5.7	5.7	6.0	6.0	6.3	6.3	6.0	6.3	6.7	6.7	6.1
DLFPS-TF/3550	6.7	5.7	6.0	5.7	6.0	6.0	6.3	6.3	6.0	6.3	6.0	6.3	6.3	6.1
GRANDE 3	7.3	6.0	6.0	6.0	6.3	6.3	6.0	6.3	6.3	6.0	5.7	6.3	6.3	6.1
NAI-3N2	6.7	6.0	6.3	6.3	6.7	6.7	6.0	6.3	6.7	5.7	5.3	5.7	5.7	6.1
PPG-TF 320	6.7	6.0	6.3	5.3	6.0	6.3	5.7	6.0	6.0	6.3	6.3	6.7	6.3	6.1
PST-5SQB	6.7	6.3	6.3	6.3	6.7	6.7	6.0	6.0	5.7	5.7	5.7	5.7	5.7	6.1
RAPTOR III	6.3	6.0	6.0	6.0	6.0	6.0	5.3	6.0	6.0	6.0	6.0	6.7	6.7	6.1
RDC	6.0	5.3	5.3	5.7	6.0	6.0	5.3	6.3	6.3	6.3	6.7	6.7	6.7	6.1
RH1	6.7	5.7	6.3	5.7	6.3	6.3	5.7	6.0	6.3	6.3	6.3	5.7	6.0	6.1
RS1	7.3	6.3	6.7	6.3	6.3	6.0	5.7	6.0	6.0	6.0	6.0	5.7	6.0	6.1
SESCR1	6.7	5.7	5.7	6.0	5.7	6.0	6.0	6.3	6.7	6.7	6.7	6.0	6.0	6.1
TF456	6.7	6.3	6.0	6.0	6.0	6.3	6.0	6.0	5.7	5.7	6.0	6.3	6.7	6.1
DLFPS-321/3679	7.0	6.3	6.7	6.0	6.0	6.0	5.3	5.7	6.0	5.7	5.7	6.0	6.3	6.0
DLFPS-321/3694	7.0	6.0	6.3	6.0	6.0	6.3	5.7	5.7	6.3	6.0	5.7	5.7	6.0	6.0
DLFPS-321/3703	7.0	6.3	6.7	6.7	6.3	6.3	5.7	6.0	5.3	5.7	5.3	5.3	6.0	6.0
DLFPS-TF/3552	7.0	5.7	6.0	5.7	6.0	6.0	6.0	5.7	6.3	6.3	6.0	6.3	6.3	6.0
GO-AOMK	7.0	5.7	6.3	6.0	5.7	6.3	6.0	6.0	5.7	5.7	5.7	6.3	6.7	6.0
LBF	7.3	6.7	6.7	6.7	7.3	6.7	6.7	6.0	5.0	5.0	5.0	5.0	5.7	6.0
PPG-TF 257	6.7	6.3	6.3	5.3	5.3	5.7	5.7	6.3	6.0	6.0	6.0	6.3	6.7	6.0
PPG-TF 312	6.3	6.0	6.3	6.0	6.0	6.3	5.7	6.3	6.0	6.0	6.0	5.7	6.0	6.0
PST-5DZM	7.3	6.3	6.3	5.7	6.0	6.0	6.0	6.3	5.7	5.7	5.7	6.0	6.3	6.0
PST-5TRN	6.7	6.3	6.0	6.3	6.0	6.0	5.3	6.0	5.3	5.7	6.0	6.3	6.3	6.0
3N1	7.7	5.7	6.3	6.3	6.3	6.3	6.0	6.0	5.3	5.3	5.0	5.7	6.0	5.9
A-TF31	6.3	6.0	5.7	6.0	6.7	6.7	6.3	6.3	5.3	5.0	5.0	5.7	5.7	5.9
BULLSEYE	7.0	6.3	6.7	6.0	6.3	6.0	5.7	6.0	6.0	6.0	5.3	5.3	5.7	5.9
DRAGSTER	6.0	5.3	5.3	5.7	5.7	6.0	6.0	5.7	6.0	6.3	6.0	6.0	6.7	5.9
GLX ACED (PST-5DART)	6.3	5.7	5.7	6.3	5.7	5.7	5.3	6.0	6.0	6.0	6.0	6.3	6.0	5.9

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT GRIFFIN, GA 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PADRE 2	6.3	5.7	6.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.7	5.7	6.3	5.9
PARAMOUNT	6.3	6.0	6.0	6.3	6.3	6.3	6.3	6.0	5.7	5.7	5.3	5.3	5.7	5.9
PPG-TF 313	6.3	5.7	5.7	5.0	6.3	6.3	5.7	6.0	5.7	6.7	6.0	6.0	6.0	5.9
PST-5E6	6.3	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.3	5.7	6.0	5.7	5.9
RC4	6.3	5.7	6.0	5.7	5.3	5.3	5.7	6.0	6.3	6.0	6.0	6.7	6.7	5.9
SETFM3	7.0	6.7	6.3	6.0	6.0	6.3	6.0	6.3	5.3	5.3	5.0	6.0	6.0	5.9
ATF1768	7.0	5.3	6.0	6.0	5.7	6.0	6.0	5.7	6.0	5.7	5.7	5.7	5.7	5.8
BAR-FA8230	6.3	6.0	6.0	5.7	6.0	6.0	5.7	5.7	5.3	5.3	5.7	6.0	6.0	5.8
BULLSEYE LTZ	6.0	5.3	5.7	6.0	5.7	5.7	5.7	5.7	6.0	5.7	5.7	6.0	6.0	5.8
DLFPS-321/3693	6.7	5.3	5.3	6.0	6.3	6.0	6.0	6.0	6.3	6.0	5.3	5.3	5.7	5.8
OG-WALK	7.0	6.7	6.3	6.3	6.7	6.3	5.3	6.0	5.3	5.0	4.7	5.3	5.3	5.8
PPG-TF 316	6.0	5.3	5.7	5.3	5.3	5.3	5.7	6.0	5.7	6.0	6.0	6.7	6.7	5.8
PST-5BYOB	6.3	5.7	6.0	6.0	6.0	6.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.8
PST-5THM	6.3	5.7	5.7	5.7	5.7	6.0	6.0	5.7	5.7	5.7	6.0	6.3	6.0	5.8
3B2	6.7	5.7	6.0	6.0	5.7	6.0	5.7	5.7	5.0	5.3	5.3	6.0	6.0	5.7
AST8118LM	6.0	5.7	5.7	6.0	6.0	5.7	6.0	6.0	6.0	5.7	5.3	5.0	5.3	5.7
BAR 9FE MAS	6.7	5.7	6.0	5.7	6.0	6.0	5.7	5.7	5.0	5.0	5.3	6.0	6.0	5.7
BAR FA 8228	6.7	6.0	6.3	6.0	6.3	6.0	5.3	5.3	5.0	5.0	5.0	6.0	6.0	5.7
COPIOUS TF	6.7	6.3	6.0	6.3	6.3	6.3	5.7	5.7	5.7	5.0	5.0	4.7	5.0	5.7
DLFPS-321/3706	6.3	5.3	5.7	5.0	5.3	5.7	5.7	5.7	6.3	6.0	6.0	6.0	6.0	5.7
NT-3	6.3	5.7	5.7	6.0	5.7	5.7	6.0	5.3	6.0	5.7	5.3	5.7	6.0	5.7
PPG-TF 231	6.3	6.0	6.0	5.7	6.0	6.0	6.0	6.0	5.7	5.7	5.3	5.3	4.7	5.7
PPG-TF 305	5.7	5.3	5.7	5.3	5.7	5.7	5.7	5.7	5.7	6.3	5.7	5.7	6.0	5.7
PST-5MCMO	6.7	5.7	6.0	5.7	5.7	5.3	5.3	5.3	6.0	5.7	5.7	6.0	6.0	5.7
SETFM2	7.3	6.7	7.0	6.3	6.3	6.3	5.7	5.3	5.0	5.3	4.3	4.7	5.0	5.7
BANDIT	6.7	5.7	5.7	6.0	6.0	6.3	5.7	6.0	5.0	5.0	5.0	5.3	5.7	5.6
ESCALADE	6.7	6.3	6.3	6.0	6.0	6.3	6.0	6.0	6.0	5.0	4.0	4.3	4.3	5.6
ESTRENA	6.3	6.3	6.3	6.3	6.7	7.0	6.3	5.7	5.3	4.7	3.7	4.0	4.7	5.6
FAYETTE	7.0	5.7	6.0	5.7	6.0	6.3	5.3	5.7	5.3	5.3	5.0	5.3	5.3	5.6
JT 517	7.0	5.3	6.0	6.0	6.0	6.0	5.7	5.3	5.0	5.7	4.7	5.3	5.7	5.6
MOONDANCE GLX	6.7	5.7	6.0	5.7	5.7	5.7	6.0	6.0	5.3	5.7	5.0	5.3	5.7	5.6
NAI-FQZ-17	6.7	6.0	5.7	6.0	6.0	6.0	5.7	5.7	4.7	5.0	5.3	5.7	5.7	5.6
NATURALLY GREEN	7.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.0	5.3	5.3	6.0	5.6
PPG-TF 338	6.0	5.3	5.3	5.3	5.0	5.0	5.0	5.7	6.0	6.0	6.0	6.3	6.7	5.6
RAD-TF131	7.0	6.0	5.7	6.0	5.7	6.0	6.0	5.7	6.0	5.7	5.0	4.7	5.3	5.6
TURBO SS	7.3	6.0	6.0	6.3	6.0	6.3	5.7	5.7	6.3	5.7	4.0	4.3	5.0	5.6
GRAND PRIX (FC15-01P)	6.7	5.7	6.0	5.7	5.7	5.7	5.7	5.7	4.7	5.0	4.7	5.3	6.0	5.5
PRO GOLD	5.3	5.3	5.3	5.7	5.7	5.7	5.3	5.3	5.3	5.3	5.3	5.7	5.7	5.5
SE5STAR	6.3	5.7	5.7	5.3	5.7	6.0	6.0	5.7	6.0	5.3	5.0	4.7	5.0	5.5
PALOMAR	6.3	6.0	6.0	5.7	5.3	6.0	5.7	5.3	5.3	4.7	3.7	4.3	4.7	5.2
PST-5MINK	6.0	5.0	5.0	5.3	5.0	5.3	5.7	5.7	5.7	4.7	4.3	5.3	4.7	5.1
KENTUCKY-31	5.3	5.3	5.3	5.0	5.0	4.3	4.0	4.0	3.7	3.3	4.0	4.0	5.0	4.4
LSD VALUE	5.3	5.1	4.2	3.7	2.7	3.0	2.0	1.4	1.3	1.0	1.1	1.1	1.2	0.9
C.V. (%)	14.3	13.7	12.8	13.2	12.9	12.3	10.3	9.4	10.8	9.6	11.2	11.0	10.8	7.5

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

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

TABLE 5.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES, IA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER APRIL-NOVEMBER							QUALITY RATINGS								
			4_29	5_22	7_12	8_20	9_30	10_4	11_6	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
AST8118LM	5.3	8.3	54.0	70.3	90.0	98.0	98.3	97.0	96.3	6.7	7.7	7.7	7.7	7.3	7.0	7.3	7.0	7.3
AH1	4.3	7.0	65.3	72.7	93.7	99.0	99.0	97.7	98.3	7.0	7.0	7.0	7.3	7.0	7.0	8.0	7.0	7.2
BGR-TF3	5.7	6.7	69.0	84.0	88.0	97.7	97.7	94.0	94.7	6.7	7.3	6.7	7.3	7.0	7.3	7.7	7.3	7.2
BIRMINGHAM	5.0	7.7	69.0	78.3	91.3	98.3	98.3	96.7	96.0	6.7	7.7	7.3	7.7	7.0	7.0	7.3	7.0	7.2
DLFPS-321/3699	5.0	7.7	64.7	82.7	95.7	97.3	98.7	97.3	96.0	6.7	8.0	7.3	7.3	7.0	6.7	7.7	7.0	7.2
BONFIRE (JS DTT)	4.7	7.3	68.0	78.7	94.7	99.0	98.7	97.7	97.7	6.7	7.3	7.3	7.7	7.0	7.0	7.7	7.0	7.2
SETFM3	5.0	8.0	55.3	70.0	88.0	99.0	98.7	96.3	96.0	6.7	7.0	7.7	7.3	7.0	7.0	7.7	7.3	7.2
TMT1	5.3	6.7	58.0	73.3	90.7	97.3	98.7	96.0	94.3	6.7	7.3	7.0	7.3	7.0	7.0	7.7	7.3	7.2
TURBO SS	5.0	8.3	47.0	57.0	82.0	93.7	97.7	92.0	92.0	7.3	7.0	6.7	7.3	7.7	7.0	7.7	6.7	7.2
AST8218LM	5.3	7.3	66.7	87.3	91.0	97.7	98.0	97.0	90.7	7.0	7.7	7.3	7.7	7.0	7.3	7.0	5.7	7.1
BANDIT	5.7	7.0	62.3	73.0	86.7	95.0	96.0	95.0	91.3	7.0	7.0	7.0	7.3	7.3	7.0	7.3	6.7	7.1
BAR 9FE MAS	5.7	7.3	56.0	64.0	88.3	96.0	97.3	95.0	96.0	6.3	7.3	7.0	7.0	7.0	7.0	7.7	7.7	7.1
BULLSEYE	4.7	7.0	48.7	56.0	87.7	97.7	97.3	91.7	88.7	6.7	6.7	7.3	7.3	7.0	6.7	7.7	7.3	7.1
COPIOUS TF	5.3	8.0	35.7	64.0	89.7	98.3	98.7	94.3	94.7	6.7	6.7	7.3	7.3	7.0	7.0	7.7	7.0	7.1
DLFPS-321/3693	5.0	7.0	69.0	79.3	93.7	99.0	99.0	97.7	96.0	6.7	7.3	7.0	7.0	7.0	7.0	7.3	7.3	7.1
DLFPS-321/3694	5.3	6.3	61.7	80.0	85.7	97.7	98.7	97.7	96.3	6.0	7.0	7.3	7.7	7.0	7.0	7.7	7.0	7.1
DLFPS-321/3707	5.0	8.0	58.3	72.0	85.3	98.3	98.3	94.7	94.0	6.7	7.7	7.3	6.7	7.0	6.7	7.7	7.0	7.1
DLFPS-321/3708	5.0	8.0	49.0	69.0	94.7	98.7	98.3	93.7	93.0	6.7	7.7	7.3	7.0	7.0	7.0	7.7	6.7	7.1
DLFPS-TF/3552	4.7	7.0	69.3	86.3	91.0	99.0	99.0	97.3	97.7	6.3	8.0	7.0	7.3	6.7	7.0	7.7	7.0	7.1
DLFPS-TF/3553	5.3	7.7	53.7	76.3	90.7	98.3	99.0	97.0	97.0	6.7	7.3	7.0	7.3	7.0	7.0	7.3	7.0	7.1
FAYETTE	5.3	8.3	49.7	63.3	93.3	97.3	98.0	97.0	95.0	6.3	7.7	7.0	7.0	7.3	7.0	7.3	7.0	7.1
LBF	6.3	7.7	63.0	64.3	89.0	97.7	98.0	94.7	93.3	6.3	6.7	7.3	7.7	7.0	7.0	7.7	7.0	7.1
PPG-TF 320	4.3	7.0	71.3	79.7	95.0	98.3	98.3	97.0	96.0	6.7	7.3	7.7	7.3	7.0	6.3	7.3	7.0	7.1
PPG-TF 338	4.3	7.3	72.7	82.3	92.0	98.7	99.0	97.0	97.3	6.7	7.7	7.0	7.0	7.0	7.0	7.7	7.0	7.1
RC4	5.3	7.7	47.3	56.3	96.0	97.0	97.7	96.3	94.7	6.3	7.0	7.7	7.0	7.0	7.0	7.3	7.3	7.1
SETFM2	5.0	8.0	58.0	65.7	88.3	97.7	98.0	96.3	91.3	6.0	7.0	7.0	8.0	7.0	7.0	7.7	7.0	7.1
A-TF31	5.0	8.0	53.0	69.3	85.0	98.7	98.7	96.7	95.7	6.7	7.3	6.7	7.3	7.3	6.7	7.3	7.0	7.0
ATF2116	5.7	7.3	56.3	67.3	88.3	98.0	97.3	96.3	96.3	6.7	7.0	7.7	7.0	7.0	6.7	7.0	7.3	7.0
BULLSEYE LTZ	4.7	6.7	70.3	86.7	94.3	98.3	98.0	98.3	96.7	6.7	7.0	6.7	7.3	7.0	7.0	7.3	6.7	7.0
DLFPS-321/3679	5.3	7.3	62.7	65.7	87.0	97.7	97.7	89.3	89.3	6.3	7.0	7.0	7.0	7.0	6.7	7.7	7.0	7.0
DLFPS-321/3701	5.0	7.3	62.0	57.7	89.3	99.0	99.0	97.3	97.3	6.7	6.7	6.3	7.0	7.0	6.7	7.7	7.7	7.0
DLFPS-321/3702	5.3	7.0	59.0	83.7	94.3	98.7	98.3	96.7	96.7	7.0	7.0	7.0	6.7	7.0	7.0	7.7	7.0	7.0
ESCALADE	4.3	7.0	64.7	81.7	86.3	98.0	98.3	97.0	96.3	6.3	7.3	7.0	7.0	7.0	6.3	7.7	7.7	7.0
ESTRENA	4.7	6.7	65.7	83.3	93.0	98.7	98.0	95.7	93.3	6.7	7.3	7.0	7.3	7.0	6.7	7.0	6.7	7.0
HEMI	4.7	7.3	58.7	70.0	90.0	96.3	98.3	96.7	95.7	6.3	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0
JT 268	5.0	7.0	49.3	74.0	94.7	98.3	98.3	96.3	96.7	6.3	7.3	7.0	7.0	7.0	6.3	7.7	7.0	7.0
JT 517	6.0	8.0	52.0	63.3	80.0	95.3	97.3	89.7	91.0	6.7	7.3	6.7	7.0	7.0	7.0	7.7	6.7	7.0
NAI-3N2	4.7	7.3	64.0	63.7	93.7	97.3	98.7	97.0	92.0	6.0	7.3	7.0	7.0	7.0	7.0	8.0	6.7	7.0
NAI-ST5	4.7	7.7	43.0	63.3	81.7	97.7	99.0	97.3	97.3	6.3	7.3	7.0	7.3	7.0	6.3	7.3	7.0	7.0
NAI-TUE	5.3	7.7	45.7	55.3	87.7	97.0	98.0	91.7	94.3	6.3	7.3	7.0	7.0	7.0	7.0	7.7	6.7	7.0
NATURALLY GREEN	5.7	7.0	53.7	86.3	86.7	97.3	97.7	93.3	94.3	6.7	7.3	7.3	7.3	7.0	6.7	7.0	7.0	7.0
PARAMOUNT	5.3	7.3	47.7	70.7	91.3	98.7	98.7	95.3	94.0	6.3	7.3	7.0	7.3	7.0	7.0	7.0	7.3	7.0
PPG-TF 231	5.0	7.0	63.0	74.7	92.0	98.7	98.0	97.3	95.3	6.3	7.3	7.3	7.3	7.0	6.7	7.0	6.7	7.0
PPG-TF 249	4.7	7.3	58.3	77.7	97.3	98.0	98.7	97.3	95.7	6.7	7.3	7.0	7.0	6.7	7.0	7.3	7.0	7.0
PPG-TF 255	4.7	7.7	44.3	61.7	91.3	98.7	98.7	98.3	97.0	6.3	7.3	7.3	7.0	7.0	6.7	7.7	7.0	7.0

TABLE 5.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES, IA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER			APRIL-NOVEMBER				QUALITY RATINGS								
			4_29	5_22	7_12	8_20	9_30	10_4	11_6	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
PPG-TF 267	4.7	6.7	55.3	71.3	92.7	99.0	98.7	97.0	94.3	6.7	7.0	7.0	7.0	7.0	7.0	7.7	6.7	7.0
PPG-TF 305	5.0	7.3	60.0	78.3	94.7	98.3	97.7	96.7	91.0	7.0	7.7	7.0	7.0	7.0	6.7	7.0	6.7	7.0
PPG-TF 315	4.7	7.3	61.0	72.3	93.7	98.7	98.7	98.0	97.0	7.0	7.0	6.3	7.0	7.0	6.3	7.7	7.3	7.0
PPG-TF 316	5.3	6.7	54.0	72.7	94.3	99.0	99.0	97.0	97.3	6.7	7.0	6.7	7.0	7.0	7.0	7.7	7.3	7.0
PPG-TF 323	4.7	7.7	73.0	79.0	94.7	99.0	98.7	97.3	96.7	6.7	7.3	7.3	7.0	6.7	6.7	7.3	7.0	7.0
PPG-TF 336	5.0	7.0	66.7	75.0	95.3	97.3	98.7	98.0	91.3	6.7	7.3	7.0	7.0	7.0	7.0	7.7	6.7	7.0
PRO GOLD	4.7	6.7	62.3	81.0	92.3	99.0	98.7	95.7	95.7	6.7	7.0	7.3	7.0	6.7	6.7	7.7	6.7	7.0
PST-5DC24	5.7	8.3	52.0	40.3	82.7	93.0	93.3	96.3	92.3	6.7	7.0	6.3	7.3	7.0	7.0	7.3	7.0	7.0
PST-5GLBS	5.0	7.0	65.0	74.0	91.7	98.7	97.7	97.3	96.7	6.7	7.0	7.3	7.0	7.0	6.7	7.3	6.7	7.0
PST-5MINK	5.3	7.7	46.7	63.0	89.3	98.3	98.0	94.3	91.0	6.7	7.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0
RAD-TF105	5.7	6.3	53.0	59.0	91.7	96.3	97.0	95.3	93.3	6.7	6.7	6.7	7.3	7.7	6.7	7.3	7.0	7.0
RAD-TF131	5.3	8.3	52.3	62.3	80.0	96.7	98.0	94.3	96.7	6.7	7.7	6.7	7.0	7.3	7.0	7.0	7.0	7.0
RHL2	4.7	7.3	64.7	64.3	96.0	98.0	95.7	97.7	95.7	6.7	7.0	7.0	7.0	7.0	7.0	8.0	6.7	7.0
RS1	4.7	6.3	60.7	87.7	93.7	98.7	98.7	97.0	96.3	6.3	7.0	7.0	7.3	7.0	6.7	8.0	7.0	7.0
SESCR1	4.7	8.0	58.3	68.3	86.7	98.3	99.0	90.3	95.7	6.3	7.3	7.3	7.0	7.0	7.0	7.0	7.0	7.0
SETF104	5.0	7.7	47.7	65.3	86.0	98.0	97.7	95.7	92.0	6.3	7.3	7.0	7.0	7.0	7.0	8.0	6.7	7.0
TANGO	5.3	7.7	47.7	55.3	88.0	96.7	97.7	94.3	95.0	6.0	7.0	7.0	7.3	7.0	6.7	7.7	7.0	7.0
3N1	5.0	7.7	50.3	58.3	82.3	98.7	97.7	97.0	92.7	6.7	7.0	7.3	6.7	6.7	6.3	7.3	7.3	6.9
AH2	4.0	6.0	70.7	92.0	95.3	98.7	99.0	97.7	95.7	7.0	7.0	7.0	7.0	7.0	6.0	7.0	7.0	6.9
ATF1768	5.0	7.3	53.7	54.3	90.7	97.3	97.3	97.3	94.7	6.0	7.0	7.0	6.7	7.0	6.7	7.7	7.0	6.9
BY-TF-169	5.0	7.3	68.0	77.7	92.0	97.7	98.7	86.3	91.7	6.3	7.3	7.0	6.7	7.0	7.0	7.0	6.7	6.9
DLFPS-321/3696	5.3	7.3	66.0	76.3	92.7	97.3	98.3	96.0	96.3	6.0	7.3	6.7	7.3	7.0	6.7	7.7	6.7	6.9
GO-AOMK	5.3	7.7	41.7	55.3	78.0	96.7	97.3	88.3	90.7	6.0	7.0	6.7	7.0	7.3	6.7	7.7	6.7	6.9
JT 233	4.7	7.3	60.3	69.3	95.7	98.3	98.7	97.7	93.0	6.7	7.0	7.0	7.0	7.0	6.3	7.3	6.7	6.9
K18-ROE	4.3	6.7	61.7	78.3	88.0	98.0	98.3	97.0	92.7	6.7	7.0	7.0	7.0	7.0	6.3	8.0	6.0	6.9
K18-WB1	4.7	6.7	65.7	76.3	91.7	99.0	99.0	98.0	98.0	6.3	7.0	6.3	7.3	7.0	6.7	7.7	6.7	6.9
NT-3	5.0	7.0	66.3	69.3	90.3	98.7	98.7	97.0	96.3	6.3	6.7	7.0	7.3	7.0	6.7	7.7	6.7	6.9
PPG-TF 262	5.0	7.3	65.7	81.7	88.7	98.3	98.3	96.3	96.3	6.7	7.0	6.7	6.7	7.0	7.0	7.3	6.7	6.9
PPG-TF 306	5.3	7.3	53.7	69.7	83.7	98.3	97.7	98.0	97.3	6.3	6.7	7.3	7.0	6.7	7.0	7.3	7.0	6.9
PPG-TF 313	4.0	7.0	64.0	79.7	93.0	98.3	99.0	97.7	97.0	6.3	7.3	6.7	7.0	6.7	7.0	7.3	6.7	6.9
PPG-TF 337	4.3	7.3	47.7	55.7	86.3	98.7	98.3	97.7	96.3	6.0	6.7	7.0	6.7	7.0	7.0	7.3	7.3	6.9
PST-5BYOB	4.3	7.3	57.0	71.0	94.7	98.3	99.0	97.0	93.7	6.3	7.0	7.3	7.0	7.0	6.0	7.7	6.7	6.9
RH1	4.3	7.0	63.3	64.3	89.0	98.0	98.3	98.3	97.0	6.7	7.0	6.7	7.3	7.0	6.7	7.0	7.0	6.9
SE53D2	4.7	7.7	50.7	70.7	93.0	98.3	98.7	98.0	96.7	6.3	7.3	7.0	7.0	6.7	6.7	7.0	7.3	6.9
TD2	5.0	6.3	67.0	81.7	84.3	97.0	98.3	97.7	98.0	5.7	7.0	6.7	8.0	7.0	6.7	7.3	7.0	6.9
TF456	4.3	7.3	49.0	60.3	91.7	98.3	99.0	97.7	96.7	6.7	6.7	6.7	6.7	7.0	6.7	7.7	7.0	6.9
BAR FA 8228	4.7	7.0	67.0	79.0	89.3	97.3	98.0	94.3	94.3	6.0	7.0	6.7	7.0	7.0	6.3	7.3	7.0	6.8
BAR TF 134	4.3	6.7	72.3	81.0	94.3	98.7	98.7	98.7	98.0	6.7	7.0	7.0	7.0	7.0	6.0	7.0	7.0	6.8
BAR-FA8230	4.7	7.3	47.3	50.0	72.0	97.3	97.3	95.0	93.0	6.3	7.0	6.7	6.7	7.0	6.7	7.7	6.7	6.8
BRAVO 2	4.7	7.3	55.3	70.7	85.7	97.0	97.0	94.0	94.3	6.0	7.0	6.7	7.0	7.0	6.7	7.3	7.0	6.8
DLFPS-321/3695	5.7	7.0	61.3	68.3	78.0	96.7	96.0	92.7	94.0	6.0	7.0	6.7	6.7	7.0	7.0	7.0	7.0	6.8
DLFPS-321/3703	4.7	7.0	62.7	63.3	91.7	98.7	98.7	96.7	96.7	6.7	6.7	6.3	7.0	7.0	6.7	7.3	6.7	6.8
DLFPS-321/3705	4.7	5.7	60.7	82.0	94.3	99.0	99.0	96.0	96.0	6.0	6.7	6.7	7.0	6.7	6.7	7.7	6.7	6.8
DLFPS-TF/3550	5.0	7.3	67.0	77.7	92.7	97.0	98.0	91.7	96.3	6.3	7.3	7.0	7.3	6.3	6.7	6.7	7.0	6.8
DRAGSTER	4.3	7.0	50.3	69.0	87.3	97.3	98.3	97.0	95.0	6.3	7.0	7.0	6.7	7.0	6.3	7.3	7.0	6.8

TABLE 5.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES, IA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER				APRIL-NOVEMBER			QUALITY RATINGS									
			4_29	5_22	7_12	8_20	9_30	10_4	11_6	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN	
FIREHAWK SLT	4.3	7.3	52.0	56.7	88.3	98.7	98.7	98.0	96.7	6.3	7.0	7.0	6.7	7.0	6.0	7.0	7.0	6.8	
GRAND PRIX (FC15-01P)	4.7	7.7	41.3	57.0	79.7	96.7	97.3	95.3	91.3	6.3	7.3	6.3	7.0	7.0	6.3	7.3	6.7	6.8	
GRANDE 3	5.0	6.7	54.0	69.3	90.0	96.0	98.7	97.7	96.0	6.0	7.0	7.0	7.0	6.7	6.7	7.7	6.7	6.8	
K18-NSE	4.3	6.0	67.0	84.3	91.7	98.7	98.3	97.7	98.3	6.0	7.0	6.7	6.7	7.0	6.3	7.3	7.0	6.8	
LIFEGUARD	4.7	6.3	61.0	83.7	92.0	98.3	99.0	96.3	94.0	6.3	7.0	7.0	7.0	7.0	6.3	7.0	6.7	6.8	
DEGAS (LTP-TF-111)	4.7	7.0	47.0	65.0	91.3	98.3	98.7	97.3	95.7	6.0	6.7	6.7	7.0	7.0	6.7	7.7	6.7	6.8	
MOONDANCE GLX	4.3	7.7	46.0	53.3	91.0	98.0	98.7	96.3	94.3	6.3	7.3	6.7	7.0	6.7	6.3	7.0	7.0	6.8	
OG-WALK	5.0	7.7	48.7	69.3	91.3	96.7	97.0	96.3	92.0	6.0	7.7	6.7	7.0	7.0	6.3	7.0	6.7	6.8	
PADRE 2	4.7	7.3	65.3	70.7	92.3	98.0	99.0	98.3	96.7	6.0	7.0	7.0	7.0	7.0	6.3	7.3	6.7	6.8	
PALOMAR	5.0	8.0	60.7	63.7	87.3	96.0	97.3	93.7	89.3	6.0	6.7	7.3	7.0	6.7	6.0	7.3	7.3	6.8	
PPG-TF 238	4.7	6.3	56.3	69.0	93.0	98.0	98.3	96.0	93.7	6.0	6.7	7.0	6.7	7.0	6.7	7.3	6.7	6.8	
PPG-TF 244	4.3	6.3	75.3	80.7	95.7	99.0	99.0	98.7	97.7	6.3	6.7	6.7	7.0	6.7	6.3	8.0	6.3	6.8	
PPG-TF 254	6.0	7.3	39.3	61.0	72.7	95.3	93.3	97.7	97.0	6.3	6.7	6.3	6.0	7.0	7.0	7.7	7.7	6.8	
PPG-TF 257	4.3	7.0	60.7	66.0	85.3	98.7	99.0	97.3	90.7	6.3	7.0	6.3	7.0	7.0	6.7	7.3	6.7	6.8	
PPG-TF 312	4.3	5.7	68.3	78.0	91.3	98.3	99.0	98.3	97.7	6.3	6.7	7.0	7.0	6.7	7.0	7.0	6.7	6.8	
PPG-TF 318	4.3	6.7	53.3	81.7	94.0	98.7	99.0	98.7	95.0	6.3	7.3	7.0	6.7	6.7	6.3	7.0	6.7	6.8	
PST-5TRN	4.7	7.3	31.7	58.0	87.7	96.3	98.0	96.3	90.3	6.0	6.7	6.3	7.0	7.0	6.7	7.7	6.7	6.8	
RAPTOR III	4.7	7.7	51.7	56.7	83.3	98.3	98.3	95.3	94.3	6.0	7.0	6.3	6.7	7.0	7.0	7.7	7.0	6.8	
SE5STAR	4.7	7.3	41.3	57.3	88.7	97.7	99.0	87.0	95.0	6.3	7.0	7.0	7.0	6.7	6.7	6.7	7.0	6.8	
TF445	4.3	6.7	65.0	76.3	86.3	97.7	98.3	97.3	96.3	6.3	6.7	6.7	7.3	6.7	6.3	7.3	7.0	6.8	
3B2	5.0	7.3	32.3	70.0	82.3	91.3	91.3	97.0	91.7	6.0	7.3	7.3	6.7	6.3	5.7	7.3	6.7	6.7	
5LSS	4.0	6.3	64.3	78.7	92.3	98.3	98.3	97.3	97.3	6.0	7.0	6.7	7.0	6.7	6.3	6.3	7.3	7.0	6.7
COL-TF-148	5.0	6.7	50.7	67.7	88.7	98.7	97.7	97.3	97.0	5.7	6.3	6.7	7.0	7.0	6.3	7.7	6.7	6.7	
DLFPS-321/3706	4.0	7.0	63.0	68.7	89.7	97.7	88.0	96.3	89.7	6.0	7.0	7.0	7.3	7.0	5.7	7.7	6.0	6.7	
GO-RH20	4.7	7.0	37.7	55.3	74.0	97.0	98.7	96.3	93.3	5.7	6.3	6.3	6.7	6.7	7.0	7.7	7.0	6.7	
K18-RS6	4.0	6.3	50.3	69.0	90.7	98.7	99.0	98.0	96.0	6.3	6.7	7.0	6.7	7.0	6.0	7.0	6.7	6.7	
OKEEFE (LTP-TF-122)	4.3	6.7	56.3	76.7	85.7	98.3	97.3	97.0	97.0	5.7	6.7	6.7	6.7	7.0	6.7	7.3	7.0	6.7	
NAI-FQZ-17	5.0	7.3	40.7	62.3	81.7	98.0	98.0	95.0	92.3	6.0	6.7	7.0	6.7	7.0	6.0	7.3	6.7	6.7	
NAI-ROS4	4.7	8.0	37.7	51.3	91.0	95.3	97.0	88.3	96.0	6.0	6.7	7.0	6.7	7.0	6.7	6.3	7.0	6.7	
PST-5DZM	4.7	7.7	37.3	51.3	81.0	95.7	98.0	96.0	90.7	6.0	7.0	6.0	7.0	7.0	6.3	7.7	6.7	6.7	
PST-5GQ	5.7	7.7	48.7	60.0	82.7	96.3	94.0	94.3	95.3	6.3	6.7	7.0	6.3	6.3	6.0	8.0	7.0	6.7	
PST-5MCMO	4.3	7.7	37.3	51.7	89.7	98.0	98.3	95.0	95.0	6.3	6.7	6.3	7.0	6.7	6.3	7.0	7.0	6.7	
PST-5SQB	5.7	6.7	55.3	74.0	89.0	99.0	91.7	97.0	95.7	6.0	6.7	7.0	6.7	6.7	6.3	7.7	6.3	6.7	
PST-5THM	5.7	7.7	45.7	68.7	74.7	96.3	88.3	96.7	95.0	6.0	7.3	7.0	6.7	6.3	6.0	7.3	6.7	6.7	
RDC	4.3	5.7	76.3	92.7	88.0	98.7	99.0	97.0	96.0	6.3	7.0	7.0	6.7	6.7	6.3	7.3	6.3	6.7	
RHF	4.0	6.3	78.7	85.0	93.3	98.7	99.0	96.0	97.0	6.7	7.0	6.7	6.7	6.3	6.0	7.7	6.7	6.7	
PPG-TF 308	6.7	7.0	43.7	40.7	91.3	96.3	93.0	91.3	90.7	6.0	6.3	6.0	7.3	6.7	7.0	7.0	6.7	6.6	
RH3	4.3	6.3	72.3	69.3	85.7	95.7	95.7	97.0	96.7	6.0	6.3	6.7	7.0	6.7	6.0	7.0	7.0	6.6	
ZRC1	4.0	6.0	60.7	76.3	94.7	98.7	98.7	97.7	95.0	6.0	6.7	6.7	7.0	6.3	6.0	7.0	7.0	6.6	
GLX ACE (PST-5DART)	4.3	7.3	42.7	48.0	89.3	98.0	98.3	96.3	96.0	6.0	7.0	6.0	7.0	6.7	6.0	7.3	6.3	6.5	
PST-5E6	4.7	6.0	49.0	48.3	89.3	95.0	97.0	97.3	95.0	6.3	6.3	6.7	6.3	6.3	6.3	7.3	6.7	6.5	
KENTUCKY-31	3.7	6.0	65.7	72.0	80.7	96.7	98.0	94.0	87.0	6.0	6.3	6.7	6.7	6.0	6.0	7.0	6.7	6.4	
LSD VALUE	1.3	1.7	51.1	38.5	46.3	4.6	15.5	12.8	14.7	1.4	1.6	3.2	2.5	0.8	0.9	2.8	1.8	0.4	
C.V. (%)	12.8	10.9	27.5	21.8	10.3	1.8	3.3	3.9	4.1	7.6	7.4	9.0	7.7	4.8	6.6	7.7	7.2	3.0	

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 6.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (TRAFFIC), IA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BIRMINGHAM	7.0	6.3	6.7	7.7	7.3	7.7	7.3	7.0	7.0	7.7	7.3
PPG-TF 338	7.0	6.3	6.7	7.7	7.0	7.0	8.0	7.0	7.0	8.0	7.3
AST8118LM	6.7	7.3	6.7	7.7	7.7	7.7	7.0	6.7	7.0	7.0	7.2
AST8218LM	7.7	7.7	7.0	7.7	7.3	7.7	7.0	7.0	7.0	6.7	7.2
DLFPS-321/3699	7.3	7.0	6.7	8.0	7.3	7.3	7.0	6.7	7.0	7.3	7.2
BGR-TF3	7.7	6.3	6.7	7.3	6.7	7.3	7.3	7.0	7.0	7.3	7.1
PPG-TF 249	7.3	6.7	6.7	7.3	7.0	7.0	7.7	7.0	7.0	7.0	7.1
DLFPS-TF/3552	7.0	6.7	6.3	8.0	7.0	7.3	7.3	6.3	7.0	6.7	7.0
FAYETTE	7.0	6.3	6.3	7.7	7.0	7.0	7.3	6.7	7.0	7.3	7.0
LBF	7.7	6.3	6.3	6.7	7.3	7.7	7.3	6.3	7.0	7.0	7.0
PPG-TF 255	7.3	6.7	6.3	7.3	7.3	7.0	7.3	6.7	7.0	7.0	7.0
PPG-TF 320	6.7	6.3	6.7	7.3	7.7	7.3	7.3	6.0	6.7	6.7	7.0
RHF	6.3	6.0	6.7	7.0	6.7	6.7	8.0	6.7	7.0	7.0	7.0
TF456	6.3	6.0	6.7	6.7	6.7	6.7	7.7	7.0	7.0	7.3	7.0
TMT1	7.0	6.0	6.7	7.3	7.0	7.3	7.0	7.0	6.7	6.7	7.0
AH1	6.7	6.7	7.0	7.0	7.0	7.3	7.0	6.3	6.7	6.7	6.9
BANDIT	7.3	7.0	7.0	7.0	7.0	7.3	6.3	6.7	7.0	6.7	6.9
BONFIRE (JS DTT)	6.7	6.3	6.7	7.3	7.3	7.7	6.7	6.0	6.7	6.7	6.9
DLFPS-321/3693	6.7	6.3	6.7	7.3	7.0	7.0	6.7	6.3	6.7	7.3	6.9
DLFPS-TF/3553	6.3	6.3	6.7	7.3	7.0	7.3	6.7	6.0	7.0	7.0	6.9
ESCALADE	6.3	5.7	6.3	7.3	7.0	7.0	7.3	6.0	7.0	7.3	6.9
HEMI	6.7	6.3	6.3	7.0	7.0	7.0	7.3	6.7	7.0	6.7	6.9
K18-ROE	7.3	6.0	6.7	7.0	7.0	7.0	7.0	6.7	6.3	7.3	6.9
NATURALLY GREEN	7.7	7.3	6.7	7.3	7.3	7.3	7.0	6.3	6.7	6.7	6.9
NT-3	6.7	5.7	6.3	6.7	7.0	7.3	6.7	6.7	6.7	7.7	6.9
RC4	6.3	7.0	6.3	7.0	7.7	7.0	6.7	6.7	7.0	7.0	6.9
RS1	7.0	6.0	6.3	7.0	7.0	7.3	7.3	6.7	6.7	6.7	6.9
SE53D2	6.3	6.0	6.3	7.3	7.0	7.0	7.0	6.3	7.0	7.0	6.9
SETFM3	7.0	7.0	6.7	7.0	7.7	7.3	6.7	6.3	7.0	6.3	6.9
A-TF31	6.7	7.3	6.7	7.3	6.7	7.3	6.7	6.3	6.7	6.7	6.8
BULLSEYE LTZ	6.3	6.3	6.7	7.0	6.7	7.3	7.3	6.3	7.0	6.3	6.8
COPIOUS TF	7.0	7.7	6.7	6.7	7.3	7.3	6.7	6.3	6.7	6.3	6.8
DLFPS-321/3679	7.0	6.3	6.3	7.0	7.0	7.0	7.0	6.3	6.7	6.7	6.8
DLFPS-321/3694	7.0	6.0	6.0	7.0	7.3	7.7	7.0	6.3	6.3	7.0	6.8
DLFPS-321/3702	7.0	7.0	7.0	7.0	7.0	6.7	7.3	6.3	7.3	6.0	6.8
DLFPS-321/3708	6.7	6.7	6.7	7.7	7.3	7.0	6.3	6.0	6.7	6.7	6.8
GRAND PRIX (FC15-01P)	6.3	6.3	6.3	7.3	6.3	7.0	7.0	6.3	6.7	7.3	6.8
GRANDE 3	7.0	6.0	6.0	7.0	7.0	7.0	6.7	6.3	7.0	7.0	6.8
JT 233	6.0	7.0	6.7	7.0	7.0	7.0	7.0	5.7	6.7	7.0	6.8
JT 268	7.3	7.0	6.3	7.3	7.0	7.0	7.0	6.7	6.3	6.7	6.8
OG-WALK	6.7	6.7	6.0	7.7	6.7	7.0	7.0	6.0	6.7	7.3	6.8
PARAMOUNT	6.3	6.7	6.3	7.3	7.0	7.3	7.0	6.3	6.7	6.3	6.8
PPG-TF 231	6.0	6.3	6.3	7.3	7.3	7.3	6.7	6.0	6.7	7.0	6.8
PPG-TF 254	7.0	7.0	6.3	6.7	6.3	6.0	7.0	7.0	7.0	8.0	6.8
PPG-TF 305	6.3	6.7	7.0	7.7	7.0	7.0	7.0	6.3	6.3	6.3	6.8

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (TRAFFIC), IA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PPG-TF 306	6.3	6.3	6.3	6.7	7.3	7.0	7.3	6.0	7.0	6.3	6.8
PPG-TF 315	6.7	7.0	7.0	7.0	6.3	7.0	7.0	6.3	7.0	6.7	6.8
PPG-TF 323	6.0	7.0	6.7	7.3	7.3	7.0	6.7	6.0	6.7	7.0	6.8
PPG-TF 336	6.0	6.0	6.7	7.3	7.0	7.0	7.3	5.7	7.0	6.3	6.8
PRO GOLD	6.3	5.7	6.7	7.0	7.3	7.0	6.7	6.3	6.7	6.7	6.8
PST-5MINK	6.3	7.3	6.7	7.3	7.0	7.0	6.7	6.7	6.7	6.3	6.8
RH1	6.3	5.7	6.7	7.0	6.7	7.3	7.0	6.3	6.7	7.0	6.8
SE5STAR	6.3	6.7	6.3	7.0	7.0	7.0	7.0	6.0	6.7	7.0	6.8
SETFM2	7.7	6.3	6.0	7.0	7.0	8.0	6.3	6.3	6.7	7.0	6.8
TF445	6.3	6.0	6.3	6.7	6.7	7.3	7.0	6.3	6.7	7.0	6.8
TURBO SS	7.0	8.3	7.3	7.0	6.7	7.3	6.7	6.3	6.3	6.7	6.8
ATF2116	6.3	7.0	6.7	7.0	7.7	7.0	6.0	6.0	6.7	6.3	6.7
DLFPS-321/3696	6.7	6.0	6.0	7.3	6.7	7.3	7.0	6.0	6.7	6.3	6.7
JT 517	7.3	7.0	6.7	7.3	6.7	7.0	6.7	6.0	6.7	6.7	6.7
LIFEGUARD	6.0	6.3	6.3	7.0	7.0	7.0	7.0	5.7	7.0	6.3	6.7
NAI-3N2	6.3	6.0	6.0	7.3	7.0	7.0	6.7	6.3	6.7	6.3	6.7
OKEEFE (LTP-TF-122)	7.0	6.3	5.7	6.7	6.7	6.7	7.0	7.0	7.0	6.7	6.7
PADRE 2	6.7	5.7	6.0	7.0	7.0	7.0	6.7	6.0	6.7	7.0	6.7
PALOMAR	6.3	6.7	6.0	6.7	7.3	7.0	7.0	6.3	6.3	6.7	6.7
PPG-TF 262	6.3	6.7	6.7	7.0	6.7	6.7	7.3	6.0	6.7	6.3	6.7
PPG-TF 318	6.3	6.3	6.3	7.3	7.0	6.7	7.0	5.3	7.0	6.7	6.7
PST-5BYOB	6.0	5.7	6.3	7.0	7.3	7.0	7.0	5.7	6.7	6.3	6.7
PST-5GLBS	6.7	6.3	6.7	7.0	7.3	7.0	6.3	6.3	6.7	6.3	6.7
PST-5THM	6.7	6.0	6.0	7.3	7.0	6.7	7.3	6.0	6.7	6.7	6.7
RAD-TF131	6.3	7.0	6.7	7.7	6.7	7.0	6.7	6.0	6.3	6.7	6.7
SETF104	6.7	6.7	6.3	7.3	7.0	7.0	6.7	5.7	6.7	7.0	6.7
TD2	6.3	5.3	5.7	7.0	6.7	8.0	6.7	6.0	6.3	7.0	6.7
ZRC1	6.3	5.0	6.0	6.7	6.7	7.0	7.0	6.3	7.0	6.7	6.7
3N1	6.7	6.7	6.7	7.0	7.3	6.7	6.0	6.0	6.7	6.7	6.6
BAR FA 8228	7.0	6.3	6.0	7.0	6.7	7.0	6.7	6.3	6.7	6.7	6.6
BY-TF-169	6.3	6.0	6.3	7.3	7.0	6.7	7.0	6.0	6.3	6.3	6.6
DLFPS-321/3695	6.7	5.3	6.0	7.0	6.7	6.7	7.0	6.3	6.7	6.7	6.6
DLFPS-321/3703	6.7	7.3	6.7	6.7	6.3	7.0	6.7	6.0	6.7	7.0	6.6
DLFPS-321/3705	6.0	5.7	6.0	6.7	6.7	7.0	7.0	6.3	6.7	6.7	6.6
DLFPS-TF/3550	6.3	6.3	6.3	7.3	7.0	7.3	5.7	6.0	6.3	6.7	6.6
DRAGSTER	6.0	6.3	6.3	7.0	7.0	6.7	6.7	5.7	6.7	6.7	6.6
NAI-TUE	6.0	6.3	6.3	7.3	7.0	7.0	7.0	5.7	6.3	6.3	6.6
PPG-TF 257	6.7	6.0	6.3	7.0	6.3	7.0	7.0	6.3	7.0	6.0	6.6
PPG-TF 267	6.0	6.3	6.7	7.0	7.0	7.0	6.7	6.3	6.3	6.0	6.6
PPG-TF 312	5.7	5.0	6.3	6.7	7.0	7.0	7.0	5.7	6.7	6.3	6.6
PPG-TF 313	6.0	6.3	6.3	7.3	6.7	7.0	7.0	6.0	6.7	6.0	6.6
PST-5DC24	6.7	7.0	6.7	7.0	6.3	7.3	6.7	5.7	7.0	6.0	6.6
RH3	6.0	5.3	6.0	6.3	6.7	7.0	7.0	6.3	6.7	7.0	6.6
SESCR1	6.3	6.3	6.3	7.3	7.3	7.0	6.3	5.7	6.3	6.3	6.6
3B2	5.0	6.3	6.0	7.3	7.3	6.7	6.7	5.3	6.7	6.3	6.5

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (TRAFFIC), IA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
AH2	5.7	6.7	7.0	7.0	7.0	7.0	6.7	5.3	6.3	5.7	6.5
ATF1768	6.3	6.0	6.0	7.0	7.0	6.7	6.7	6.0	6.7	6.0	6.5
BAR TF 134	5.7	6.3	6.7	7.0	7.0	7.0	6.3	5.7	6.7	6.0	6.5
BULLSEYE	6.3	6.0	6.7	6.7	7.3	7.3	6.3	5.7	6.7	5.3	6.5
COL-TF-148	6.3	5.3	5.7	6.3	6.7	7.0	7.0	6.3	6.7	6.7	6.5
DEGAS (LTP-TF-111)	6.3	6.0	6.0	6.7	6.7	7.0	6.7	6.0	6.7	6.3	6.5
DLFPS-321/3701	6.0	6.7	6.7	6.7	6.3	7.0	6.7	6.0	6.3	6.0	6.5
DLFPS-321/3706	5.3	5.7	6.0	7.0	7.0	7.3	6.3	5.3	6.7	6.0	6.5
DLFPS-321/3707	6.3	6.7	6.7	7.7	7.3	6.7	6.3	5.7	6.0	6.0	6.5
ESTRENA	6.0	5.7	6.7	7.3	7.0	7.3	6.3	5.7	6.0	5.3	6.5
FIREHAWK SLT	6.3	6.7	6.3	7.0	7.0	6.7	6.3	5.7	6.7	6.3	6.5
GLX ACED (PST-5DART)	6.3	6.3	6.0	7.0	6.0	7.0	6.7	5.7	7.0	7.0	6.5
GO-RH20	6.3	6.0	5.7	6.3	6.3	6.7	7.0	6.3	7.0	6.7	6.5
K18-RS6	6.0	6.3	6.3	6.7	7.0	6.7	6.7	6.0	6.7	6.3	6.5
K18-WB1	6.0	5.3	6.3	7.0	6.3	7.3	6.7	5.3	6.3	6.3	6.5
MOONDANCE GLX	6.0	7.0	6.3	7.3	6.7	7.0	6.3	5.3	6.7	6.7	6.5
NAI-ST5	6.0	6.3	6.3	7.3	7.0	7.3	6.3	5.3	6.3	5.7	6.5
PPG-TF 238	6.3	6.3	6.0	6.7	7.0	6.7	6.7	6.0	7.0	6.3	6.5
PPG-TF 308	6.0	6.3	6.0	6.3	6.0	7.3	7.0	6.3	6.7	6.3	6.5
PPG-TF 316	6.3	6.7	6.7	7.0	6.7	7.0	6.3	5.7	6.7	6.3	6.5
PST-5GQ	6.0	6.7	6.3	6.7	7.0	6.3	6.3	6.0	6.7	6.7	6.5
PST-5MCMO	6.0	6.7	6.3	6.7	6.3	7.0	6.7	5.3	6.7	7.0	6.5
PST-5TRN	6.0	6.3	6.0	6.7	6.3	7.0	6.7	6.0	6.7	7.0	6.5
5LSS	5.3	5.0	6.0	7.0	6.7	7.0	6.3	5.7	6.3	6.0	6.4
BAR 9FE MAS	5.7	6.0	6.3	7.3	7.0	7.0	6.7	5.3	6.0	5.7	6.4
BAR-FA8230	6.7	5.7	6.3	7.0	6.7	6.7	6.0	6.0	7.0	5.7	6.4
BRAVO 2	6.3	5.7	6.0	7.0	6.7	7.0	6.3	5.7	6.3	6.0	6.4
PST-5SQB	5.3	6.0	6.0	6.7	7.0	6.7	7.0	5.0	5.7	7.0	6.4
RDC	6.3	5.3	6.3	7.0	7.0	6.7	6.0	6.0	6.0	6.0	6.4
RHL2	5.3	6.0	6.7	7.0	7.0	7.0	6.0	5.3	5.7	6.3	6.4
GO-AOMK	6.0	6.7	6.0	7.0	6.7	7.0	6.3	5.3	6.3	5.7	6.3
NAI-FQZ-17	6.0	6.7	6.0	6.7	7.0	6.7	6.7	5.3	6.0	5.7	6.3
PPG-TF 244	6.0	5.7	6.3	6.7	6.7	7.0	6.3	5.3	6.3	6.0	6.3
PST-5DZM	5.7	6.3	6.0	7.0	6.0	7.0	6.0	5.7	6.7	6.0	6.3
PST-5E6	5.3	6.0	6.3	6.3	6.7	6.3	6.3	5.3	6.7	6.3	6.3
RAD-TF105	6.0	7.3	6.7	6.7	6.7	7.3	5.7	5.3	6.3	5.7	6.3
RAPTOR III	6.7	6.0	6.0	7.0	6.3	6.7	6.0	5.7	6.3	6.0	6.3
TANGO	6.0	5.3	6.0	7.0	7.0	7.3	6.0	5.3	6.3	5.3	6.3
PPG-TF 337	5.7	6.3	6.0	6.7	7.0	6.7	6.3	5.0	6.7	5.0	6.2
K18-NSE	5.3	5.7	6.0	7.0	6.7	6.7	6.0	5.3	5.7	5.3	6.1
NAI-ROS4	5.3	6.0	6.0	6.7	7.0	6.7	5.3	5.3	6.0	5.7	6.1
KENTUCKY-31	4.3	4.0	6.0	6.3	6.7	6.7	5.3	4.7	6.7	5.7	6.0
LSD VALUE	2.2	1.1	1.4	1.6	3.2	2.5	3.2	3.1	3.1	2.8	1.1
C.V. (%)	13.0	10.0	7.6	7.4	9.0	7.7	11.5	13.3	8.6	13.0	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 6.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (TRAFFIC), IA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER							PERCENT ESTABLISHMENT	
	4_29	5_22	7_12	8_7	9_30	10_4	11_5	OCTOBER	NOVEMBER
BIRMINGHAM	69.0	78.3	91.3	54.7	21.7	79.3	63.3	36.7	76.7
PPG-TF 338	72.7	82.3	92.0	74.7	30.7	78.7	68.7	36.7	70.0
AST8118LM	54.0	70.3	90.0	50.7	22.7	68.7	66.0	31.7	68.3
AST8218LM	66.7	87.3	91.0	54.0	20.3	66.0	48.3	36.7	76.7
DLFPS-321/3699	64.7	82.7	95.7	53.0	18.3	74.7	60.7	31.7	75.0
BGR-TF3	69.0	84.0	88.0	59.7	23.0	75.3	68.0	43.3	78.3
PPG-TF 249	58.3	77.7	97.3	66.0	24.7	74.0	62.7	31.7	66.7
DLFPS-TF/3552	69.3	86.3	91.0	58.3	14.3	71.7	58.7	25.0	76.7
FAYETTE	49.7	63.3	93.3	60.0	21.7	78.3	65.0	26.7	70.0
LBF	63.0	64.3	89.0	46.3	18.7	64.3	56.7	30.0	70.0
PPG-TF 255	44.3	61.7	91.3	59.3	20.0	73.0	64.7	26.7	66.7
PPG-TF 320	71.3	79.7	95.0	59.3	18.0	66.7	48.7	28.3	78.3
RHF	78.7	85.0	93.3	76.7	24.3	79.7	63.0	40.0	78.3
TF456	49.0	60.3	91.7	72.0	28.0	82.7	69.7	25.0	63.3
TMT1	58.0	73.3	90.7	58.3	27.0	66.7	51.3	40.0	71.7
AH1	65.3	72.7	93.7	55.7	17.0	63.0	48.7	45.0	80.0
BANDIT	62.3	73.0	86.7	45.0	17.3	71.7	52.3	31.7	65.0
BONFIRE (JS DTT)	68.0	78.7	94.7	50.3	16.3	65.0	52.7	38.3	81.7
DLFPS-321/3693	69.0	79.3	93.7	57.7	20.7	78.0	62.3	30.0	70.0
DLFPS-TF/3553	53.7	76.3	90.7	44.7	17.7	64.3	53.3	26.7	65.0
ESCALADE	64.7	81.7	86.3	57.7	20.3	75.0	62.3	36.7	78.3
HEMI	58.7	70.0	90.0	57.0	21.3	75.7	64.3	23.3	68.3
K18-ROE	61.7	78.3	88.0	66.0	20.7	70.0	63.0	36.7	73.3
NATURALLY GREEN	53.7	86.3	86.7	46.0	14.7	56.3	42.3	30.0	70.0
NT-3	66.3	69.3	90.3	48.7	22.0	73.7	68.7	28.3	70.0
RC4	47.3	56.3	96.0	47.3	20.3	71.0	59.3	28.3	66.7
RS1	60.7	87.7	93.7	61.7	21.7	69.3	64.3	38.3	73.3
SE53D2	50.7	70.7	93.0	57.7	23.3	76.7	62.7	26.7	73.3
SETFM3	55.3	70.0	88.0	48.0	16.7	65.3	50.7	26.7	60.0
A-TF31	53.0	69.3	85.0	49.0	20.0	62.7	46.3	35.0	68.3
BULLSEYE LTZ	70.3	86.7	94.3	56.0	19.7	78.0	57.3	43.3	81.7
COPIOUS TF	35.7	64.0	89.7	55.0	22.3	75.3	46.3	36.7	68.3
DLFPS-321/3679	62.7	65.7	87.0	45.0	12.7	54.0	40.3	26.7	61.7
DLFPS-321/3694	61.7	80.0	85.7	44.0	16.3	68.7	52.3	31.7	76.7
DLFPS-321/3702	59.0	83.7	94.3	53.3	20.7	69.3	49.0	31.7	76.7
DLFPS-321/3708	49.0	69.0	94.7	40.7	15.0	47.0	41.7	35.0	70.0
GRAND PRIX (FC15-01P)	41.3	57.0	79.7	47.3	19.7	68.3	55.0	23.3	63.3
GRANDE 3	54.0	69.3	90.0	52.0	20.3	72.0	58.0	30.0	70.0
JT 233	60.3	69.3	95.7	56.3	16.7	71.7	54.3	38.3	70.0
JT 268	49.3	74.0	94.7	57.3	19.3	68.3	51.7	25.0	61.7
OG-WALK	48.7	69.3	91.3	46.3	18.7	68.0	58.3	21.7	66.7
PARAMOUNT	47.7	70.7	91.3	54.3	21.3	53.7	54.0	28.3	70.0
PPG-TF 231	63.0	74.7	92.0	59.7	19.3	65.3	50.0	35.0	68.3
PPG-TF 254	39.3	61.0	72.7	59.0	27.0	79.7	71.0	30.0	55.0
PPG-TF 305	60.0	78.3	94.7	53.3	21.3	76.3	49.3	33.3	73.3

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (TRAFFIC), IA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER						PERCENT ESTABLISHMENT		
	4_29	5_22	7_12	8_7	9_30	10_4	11_5	OCTOBER	NOVEMBER
PPG-TF 306	53.7	69.7	83.7	57.3	16.7	60.3	46.0	23.3	60.0
PPG-TF 315	61.0	72.3	93.7	51.0	16.7	69.0	56.0	26.7	66.7
PPG-TF 323	73.0	79.0	94.7	54.3	19.3	69.7	56.3	30.0	73.3
PPG-TF 336	66.7	75.0	95.3	53.3	15.3	73.7	51.0	43.3	76.7
PRO GOLD	62.3	81.0	92.3	55.3	25.0	66.7	53.3	38.3	76.7
PST-5MINK	46.7	63.0	89.3	47.0	22.3	69.7	45.0	20.0	66.7
RH1	63.3	64.3	89.0	58.7	19.7	75.3	58.0	38.3	66.7
SE5STAR	41.3	57.3	88.7	57.0	22.0	76.0	58.7	25.0	61.7
SETFM2	58.0	65.7	88.3	50.3	21.0	60.0	47.3	26.7	63.3
TF445	65.0	76.3	86.3	64.3	20.7	81.7	61.3	28.3	73.3
TURBO SS	47.0	57.0	82.0	38.0	16.7	56.3	48.3	26.7	63.3
ATF2116	56.3	67.3	88.3	40.3	15.7	57.7	40.3	23.3	68.3
DLFPS-321/3696	66.0	76.3	92.7	49.3	16.3	61.0	52.3	36.7	73.3
JT 517	52.0	63.3	80.0	35.3	13.7	63.7	45.0	36.7	70.0
LIFEGUARD	61.0	83.7	92.0	51.0	16.7	55.3	47.7	38.3	75.0
NAI-3N2	64.0	63.7	93.7	48.0	19.7	66.7	51.0	36.7	68.3
OKEEFE (LTP-TF-122)	56.3	76.7	85.7	51.0	19.3	72.0	54.7	31.7	63.3
PADRE 2	65.3	70.7	92.3	52.7	16.7	62.3	63.3	40.0	73.3
PALOMAR	60.7	63.7	87.3	49.7	20.3	52.0	47.7	28.3	68.3
PPG-TF 262	65.7	81.7	88.7	53.7	16.7	58.3	45.7	21.7	67.3
PPG-TF 318	53.3	81.7	94.0	57.0	15.3	62.3	56.0	31.7	66.7
PST-5BYOB	57.0	71.0	94.7	49.0	17.7	65.0	47.3	33.3	70.0
PST-5GLBS	65.0	74.0	91.7	48.0	20.3	64.3	56.3	26.7	76.7
PST-5THM	45.7	68.7	74.7	52.0	21.0	66.0	54.7	30.0	73.3
RAD-TF131	52.3	62.3	80.0	47.7	18.7	57.7	50.3	30.0	66.7
SETF104	47.7	65.3	86.0	45.3	14.3	54.0	47.7	33.3	70.0
TD2	67.0	81.7	84.3	46.7	16.3	68.3	64.3	40.0	76.7
ZRC1	60.7	76.3	94.7	60.3	21.0	71.7	55.7	26.7	63.3
3N1	50.3	58.3	82.3	50.0	20.0	61.7	55.3	25.0	61.7
BAR FA 8228	67.0	79.0	89.3	40.7	15.0	58.7	44.3	31.7	73.3
BY-TF-169	68.0	77.7	92.0	47.3	15.7	57.3	51.7	25.0	66.7
DLFPS-321/3695	61.3	68.3	78.0	44.7	18.0	61.7	54.3	35.0	71.7
DLFPS-321/3703	62.7	63.3	91.7	56.3	19.0	69.3	60.0	21.7	56.7
DLFPS-321/3705	60.7	82.0	94.3	54.7	22.7	73.0	59.3	36.7	76.7
DLFPS-TF/3550	67.0	77.7	92.7	31.3	14.3	59.7	51.7	30.0	68.3
DRAGSTER	50.3	69.0	87.3	49.7	14.7	64.7	52.3	25.0	65.0
NAI-TUE	45.7	55.3	87.7	51.0	14.0	54.7	43.3	26.7	61.7
PPG-TF 257	60.7	66.0	85.3	58.3	18.7	71.0	50.7	33.3	73.3
PPG-TF 267	55.3	71.3	92.7	45.3	16.0	56.0	36.0	25.0	65.0
PPG-TF 312	68.3	78.0	91.3	59.0	17.7	67.7	51.7	33.3	73.3
PPG-TF 313	64.0	79.7	93.0	63.3	18.7	64.0	50.3	31.7	71.7
PST-5DC24	52.0	40.3	82.7	35.3	10.0	50.3	42.0	33.3	65.0
RH3	72.3	69.3	85.7	55.3	18.7	77.3	59.7	45.0	75.0
SESCR1	58.3	68.3	86.7	42.0	11.3	50.7	39.7	31.7	63.3
3B2	32.3	70.0	82.3	50.7	17.0	68.0	51.0	33.3	63.3

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (TRAFFIC), IA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER							PERCENT ESTABLISHMENT	
	4_29	5_22	7_12	8_7	9_30	10_4	11_5	OCTOBER	NOVEMBER
AH2	70.7	92.0	95.3	54.0	11.7	57.3	39.7	46.7	83.3
ATF1768	53.7	54.3	90.7	41.0	13.7	65.0	48.7	28.3	65.0
BAR TF 134	72.3	81.0	94.3	44.7	13.0	63.0	51.0	26.7	76.7
BULLSEYE	48.7	56.0	87.7	44.0	14.7	49.3	38.7	28.3	60.0
COL-TF-148	50.7	67.7	88.7	49.0	18.7	66.3	57.7	25.0	66.7
DEGAS (LTP-TF-111)	47.0	65.0	91.3	54.0	18.3	65.3	57.0	28.3	56.7
DLFPS-321/3701	62.0	57.7	89.3	51.3	14.3	69.3	47.3	23.3	60.0
DLFPS-321/3706	63.0	68.7	89.7	50.3	14.7	59.0	47.3	30.0	65.0
DLFPS-321/3707	58.3	72.0	85.3	42.3	10.7	50.0	40.0	26.7	65.0
ESTRENA	65.7	83.3	93.0	39.3	13.7	46.0	39.7	35.0	75.0
FIREHAWK SLT	52.0	56.7	88.3	50.7	13.7	70.7	56.7	25.0	63.3
GLX ACED (PST-5DART)	42.7	48.0	89.3	54.0	18.7	72.3	56.7	23.3	58.3
GO-RH20	37.7	55.3	74.0	49.0	18.3	75.0	61.0	31.7	65.0
K18-RS6	50.3	69.0	90.7	53.7	18.3	61.7	51.3	31.7	66.7
K18-WB1	65.7	76.3	91.7	52.0	13.7	57.7	50.7	35.0	75.0
MOONDANCE GLX	46.0	53.3	91.0	45.7	15.0	62.0	43.7	25.0	63.3
NAI-ST5	43.0	63.3	81.7	34.0	8.3	51.0	36.3	31.7	68.3
PPG-TF 238	56.3	69.0	93.0	51.7	19.0	65.0	50.3	28.3	66.7
PPG-TF 308	43.7	40.7	91.3	56.0	21.0	68.7	57.3	31.7	51.7
PPG-TF 316	54.0	72.7	94.3	55.0	17.3	73.0	51.0	36.7	75.0
PST-5GQ	48.7	60.0	82.7	45.3	16.7	61.7	49.7	18.3	63.3
PST-5MCMO	37.3	51.7	89.7	37.3	13.3	56.3	47.0	21.7	61.7
PST-5TRN	31.7	58.0	87.7	51.0	18.3	64.0	59.3	25.0	63.3
5LSS	64.3	78.7	92.3	38.0	11.7	46.7	37.7	36.7	75.0
BAR 9FE MAS	56.0	64.0	88.3	30.3	10.3	49.0	41.0	36.7	80.0
BAR-FA8230	47.3	50.0	72.0	42.7	19.0	60.7	47.0	25.0	61.7
BRAVO 2	55.3	70.7	85.7	41.3	12.0	55.3	39.3	36.7	70.0
PST-5SQB	55.3	74.0	89.0	54.0	13.7	50.7	54.0	25.0	78.3
RDC	76.3	92.7	88.0	41.3	17.0	61.0	48.3	36.7	78.3
RHL2	64.7	64.3	96.0	36.0	11.0	51.7	47.7	36.7	78.3
GO-AOMK	41.7	55.3	78.0	36.3	14.0	51.7	33.3	20.0	55.0
NAI-FQZ-17	40.7	62.3	81.7	45.3	13.0	62.0	59.3	30.0	66.7
PPG-TF 244	75.3	80.7	95.7	47.7	13.0	65.3	48.7	36.7	80.0
PST-5DZM	37.3	51.3	81.0	41.3	13.7	57.0	41.7	20.0	58.3
PST-5E6	49.0	48.3	89.3	42.0	13.7	58.7	47.3	25.0	66.7
RAD-TF105	53.0	59.0	91.7	36.7	13.0	52.0	37.7	31.7	65.0
RAPTOR III	51.7	56.7	83.3	38.3	15.3	49.3	44.3	26.7	60.0
TANGO	47.7	55.3	88.0	31.0	10.0	56.7	34.0	36.7	68.3
PPG-TF 337	47.7	55.7	86.3	47.7	10.0	59.0	30.3	21.7	60.0
K18-NSE	67.0	84.3	91.7	38.3	9.7	46.0	35.7	40.0	83.3
NAI-ROS4	37.7	51.3	91.0	37.3	11.0	46.3	41.7	30.0	66.7
KENTUCKY-31	65.7	72.0	80.7	25.3	7.3	45.3	29.3	45.0	78.3
LSD VALUE	51.1	38.5	46.3	30.2	26.1	59.5	54.0	15.4	33.6
C.V. (%)	27.5	21.8	10.3	24.5	38.8	23.2	27.6	24.4	14.8

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 7.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (SHADE), IA 1/
2019 DATA

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

NAME	GENETIC COLOR	DENSITY RATINGS					QUALITY RATINGS						MEAN
		SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
DLFPS-321/3696	8.0	5.7	6.7	5.3	7.0	7.0	7.0	7.0	7.3	7.3	6.7	7.0	7.0
GO-RH20	8.3	5.7	6.3	6.0	7.0	6.3	6.3	6.3	7.3	7.0	7.3	7.3	6.9
PST-5TRN	8.0	5.7	7.3	6.0	6.7	7.0	6.7	6.7	7.3	7.0	7.0	7.0	6.9
BRAVO 2	8.3	6.3	7.0	5.7	6.7	6.3	6.3	7.3	7.7	7.0	7.0	5.7	6.8
DLFPS-321/3705	8.3	6.3	6.7	5.0	6.3	6.7	7.0	7.0	7.0	7.0	6.7	7.0	6.8
FAYETTE	8.0	5.3	6.7	5.3	6.3	6.3	7.0	7.0	7.3	7.0	6.3	6.7	6.8
GRANDE 3	8.7	6.0	7.3	5.3	6.3	7.0	6.3	7.0	7.3	7.0	6.7	7.0	6.8
JT 268	8.0	6.0	6.3	6.0	6.7	6.7	6.7	6.7	7.3	7.0	6.7	6.7	6.8
K18-NSE	7.7	6.0	6.7	5.7	5.7	7.0	7.0	6.7	6.7	7.3	7.0	6.7	6.8
PPG-TF 231	8.0	6.0	7.0	5.3	6.3	6.3	6.7	7.0	7.7	7.0	6.7	6.3	6.8
PPG-TF 254	8.3	5.7	6.7	5.3	6.7	6.7	6.7	6.3	7.0	7.3	6.3	7.0	6.8
SETF104	7.7	5.3	7.0	7.0	7.3	5.7	6.7	6.3	7.0	7.0	7.7	7.0	6.8
TURBO SS	8.0	6.3	6.3	5.3	6.7	6.0	6.7	6.7	7.0	7.3	6.7	7.0	6.8
DLFPS-321/3699	8.0	5.7	6.7	5.0	6.3	6.3	7.0	6.7	7.3	6.7	6.7	6.3	6.7
DRAGSTER	8.0	5.0	7.0	5.0	6.3	6.0	6.7	6.3	7.3	7.3	6.3	7.0	6.7
PADRE 2	8.0	6.3	6.3	4.3	6.3	7.0	6.7	7.0	7.0	6.7	6.7	6.0	6.7
PPG-TF 305	8.0	5.7	6.7	5.7	7.0	6.3	7.0	6.7	7.0	6.7	6.3	6.3	6.7
PPG-TF 306	8.0	5.7	7.0	5.0	7.0	6.0	6.7	6.7	7.3	7.0	6.7	6.3	6.7
PST-5GQ	7.7	5.3	7.0	6.0	6.7	5.7	6.7	6.3	7.0	7.0	7.0	7.3	6.7
PST-5MINK	7.7	6.3	7.7	5.3	6.7	6.3	7.0	7.3	7.3	6.7	6.3	5.7	6.7
BANDIT	8.3	5.7	6.0	6.0	6.3	6.7	6.7	7.0	7.0	6.7	6.7	6.0	6.6
COL-TF-148	7.7	5.3	6.0	5.3	6.7	6.3	6.7	6.7	6.7	7.0	6.3	6.3	6.6
COPIOUS TF	8.3	6.7	7.0	5.7	6.0	6.3	7.0	7.3	7.0	6.3	6.7	6.3	6.6
DLFPS-321/3702	8.0	5.7	6.7	5.0	6.3	7.0	6.7	6.3	6.7	6.7	6.3	6.7	6.6
JT 233	8.3	5.3	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.7	7.0	6.0	6.6
JT 517	8.0	5.7	5.3	4.7	6.3	6.7	7.0	7.0	6.7	7.0	6.7	5.7	6.6
PPG-TF 257	7.7	6.3	6.3	6.7	6.3	6.0	6.3	6.0	7.3	7.0	7.0	6.7	6.6
PPG-TF 308	8.3	6.7	6.3	5.7	6.3	6.3	6.3	6.7	7.0	7.0	6.7	6.3	6.6
PRO GOLD	7.7	6.7	7.0	6.0	6.0	6.7	6.7	7.0	7.3	6.7	6.7	5.7	6.6
PST-5BYOB	8.0	5.7	6.7	5.3	6.7	6.7	6.7	6.0	7.0	6.7	6.3	6.7	6.6
RH1	8.3	6.0	7.0	5.7	6.7	6.3	6.3	6.3	7.3	6.7	7.0	6.3	6.6
TF445	7.3	6.0	6.0	5.0	6.3	6.7	7.0	7.0	7.0	6.7	6.0	6.3	6.6
BIRMINGHAM	7.7	5.7	6.3	5.3	6.7	6.7	5.3	6.3	6.7	7.3	6.3	6.3	6.5
BULLSEYE	8.0	5.3	7.0	5.3	7.3	6.0	6.0	6.3	7.3	6.3	6.7	6.3	6.5
BY-TF-169	8.3	5.3	6.0	5.3	6.3	6.3	6.7	6.0	6.7	7.0	7.0	6.3	6.5
DLFPS-321/3701	8.0	6.7	6.7	4.7	6.3	6.7	6.0	7.0	7.0	6.7	5.7	6.3	6.5
DLFPS-321/3703	8.3	5.7	6.3	4.7	6.3	6.3	6.7	6.7	7.0	6.7	6.0	6.3	6.5
NAI-ROS4	8.0	5.0	5.7	5.3	6.3	6.0	6.7	6.3	6.7	6.7	6.3	6.7	6.5
NAI-TUE	8.7	5.7	6.3	4.3	6.7	6.3	6.7	6.7	7.0	6.3	5.7	7.0	6.5
PPG-TF 238	8.0	6.0	7.0	5.3	6.7	5.7	6.7	6.3	7.0	6.7	6.7	6.3	6.5
PPG-TF 318	7.7	5.7	6.3	4.7	6.7	6.3	6.3	7.0	7.0	6.3	6.0	6.0	6.5
PST-5DC24	8.3	6.3	6.7	4.3	6.3	6.7	6.3	7.0	7.0	6.7	6.0	6.0	6.5
PST-5E6	7.7	6.7	7.0	4.7	5.7	6.3	6.3	6.7	7.3	7.0	6.3	6.7	6.5
PST-5MCMO	8.0	5.3	7.3	5.3	6.0	6.3	6.7	6.7	7.3	6.7	6.7	5.7	6.5
RAD-TF105	8.0	5.7	6.7	4.3	6.7	6.3	6.3	7.0	7.3	7.0	5.0	6.7	6.5

TABLE 7
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (SHADE), IA 1/
2019 DATA

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

NAME	GENETIC COLOR	DENSITY RATINGS				QUALITY RATINGS							MEAN
		SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
RH3	7.7	4.7	5.7	6.3	6.7	6.3	6.3	6.3	7.0	6.3	7.0	6.3	6.5
ZRC1	7.3	5.7	7.0	5.0	6.0	6.7	6.3	6.7	7.0	6.7	6.3	6.3	6.5
BONFIRE (JS DTT)	7.7	6.0	6.7	4.3	6.7	6.3	6.3	6.3	7.0	6.7	6.0	6.0	6.4
DLFPS-321/3679	8.3	6.0	6.7	4.7	6.3	6.7	6.3	6.7	7.0	6.3	6.3	5.7	6.4
GLX ACED (PST-5DART)	7.7	6.3	6.0	4.7	5.7	6.3	6.3	6.7	7.0	6.7	6.3	6.0	6.4
HEMI	8.0	5.3	6.3	4.7	6.0	6.3	6.7	6.3	7.0	6.3	6.0	6.3	6.4
LIFEGUARD	7.7	6.0	6.0	5.3	6.0	6.3	7.0	6.3	6.7	6.3	6.0	6.3	6.4
OKEEFE (LTP-TF-122)	7.3	6.0	6.0	4.3	6.3	6.3	6.3	6.7	6.7	6.3	6.0	6.7	6.4
PPG-TF 244	8.3	6.7	6.3	4.3	6.3	6.3	6.7	6.7	7.3	6.3	5.3	6.3	6.4
RC4	7.3	7.0	6.3	4.7	6.7	6.3	6.7	6.3	6.7	6.7	6.0	6.0	6.4
RDC	7.3	6.0	6.3	4.3	6.3	6.3	7.0	6.3	6.7	6.7	5.7	6.0	6.4
TANGO	7.7	6.7	6.3	4.7	5.7	6.3	6.3	7.0	6.7	7.0	6.7	5.7	6.4
3B2	8.3	5.3	6.3	5.0	6.0	6.3	6.3	6.3	6.7	6.7	6.0	6.0	6.3
A-TF31	7.3	6.0	6.0	5.3	6.3	6.0	6.3	6.7	7.0	6.0	6.0	6.3	6.3
DEGAS (LTP-TF-111)	8.0	6.3	6.0	5.0	5.7	6.3	6.7	6.3	6.7	6.7	6.0	6.0	6.3
LBF	8.3	6.7	6.3	4.3	6.3	7.0	6.7	6.7	6.7	6.7	5.0	5.3	6.3
NAI-3N2	8.0	5.7	5.7	5.0	6.0	6.0	6.3	6.7	6.7	6.3	6.3	6.0	6.3
NAI-FQZ-17	8.0	5.7	6.3	4.7	6.3	6.7	7.0	6.0	7.0	6.3	5.7	5.7	6.3
NAI-ST5	8.3	6.0	6.0	5.7	6.7	7.0	6.0	6.0	6.3	6.3	6.3	5.7	6.3
PST-5GLBS	7.3	6.3	6.7	5.0	6.0	6.0	6.0	6.3	6.7	7.0	6.3	6.0	6.3
PST-5SQB	8.0	6.0	6.0	5.3	6.7	6.0	6.3	6.0	6.3	6.7	6.3	5.7	6.3
SETFM3	8.0	5.7	6.3	5.0	6.3	6.3	6.3	7.0	6.7	6.3	5.7	5.3	6.3
TD2	8.0	6.3	6.3	5.7	6.3	6.7	6.3	6.3	6.7	6.3	6.3	5.3	6.3
TF456	8.0	6.7	6.7	5.0	5.7	6.7	6.7	6.7	7.0	6.3	5.7	5.3	6.3
GRAND PRIX (FC15-01P)	8.0	5.7	6.0	5.3	6.0	6.0	6.3	6.3	6.3	6.3	6.3	6.0	6.2
K18-WB1	8.0	6.3	6.0	5.0	6.3	6.7	6.0	5.7	6.3	6.3	6.0	6.3	6.2
NATURALLY GREEN	8.3	7.0	6.3	5.0	6.3	5.7	6.3	6.3	7.0	6.3	5.7	5.7	6.2
PPG-TF 249	7.7	6.0	5.7	4.7	6.7	6.0	6.0	5.7	6.7	6.7	5.7	6.0	6.2
PPG-TF 315	8.0	6.3	5.7	4.7	6.0	6.0	6.3	6.0	6.3	6.7	6.0	6.3	6.2
PPG-TF 316	8.0	6.3	5.7	5.7	6.3	6.7	5.7	6.0	6.3	6.3	6.3	5.7	6.2
PST-5THM	7.7	6.0	6.7	5.0	5.7	6.3	6.7	6.7	6.3	6.3	6.0	5.3	6.2
SESCR1	7.7	5.7	7.0	4.3	6.0	6.0	6.7	6.0	6.3	6.7	5.7	6.0	6.2
SETFM2	7.7	5.0	5.7	5.3	5.7	6.3	6.3	6.0	6.7	6.3	6.7	5.7	6.2
TMT1	7.7	6.3	6.0	4.3	6.3	6.3	6.0	6.3	6.7	6.0	6.0	5.7	6.2
AST8118LM	8.3	5.7	6.3	4.3	6.3	6.0	6.7	6.3	6.7	6.7	4.3	5.7	6.1
ATF1768	8.0	5.7	5.3	4.7	6.0	6.0	6.7	6.3	6.3	6.3	5.7	5.3	6.1
DLFPS-321/3707	8.0	6.0	6.0	4.0	6.0	6.0	6.0	6.3	6.3	6.7	5.3	6.0	6.1
MOONDANCE GLX	8.0	6.0	6.0	4.7	5.7	6.3	5.3	6.3	6.7	6.3	5.7	6.3	6.1
NT-3	8.0	6.3	7.0	4.3	6.3	6.3	5.7	6.0	7.0	5.7	5.7	6.0	6.1
PPG-TF 255	8.0	6.3	6.0	6.0	6.7	6.0	6.0	5.7	6.3	6.3	6.3	5.7	6.1
PPG-TF 312	7.7	5.7	6.3	4.7	6.0	6.0	6.3	5.7	6.7	6.3	6.3	5.3	6.1
PPG-TF 323	8.0	5.7	6.0	4.0	6.7	6.3	6.3	6.0	6.3	5.7	5.7	5.7	6.1
PPG-TF 336	7.3	5.7	6.0	6.0	6.3	6.0	6.0	6.0	6.7	6.0	6.3	5.7	6.1
RHF	8.0	6.0	6.0	5.3	6.3	5.3	5.7	6.3	6.7	6.7	6.3	5.3	6.1
RS1	7.7	6.0	6.3	5.0	6.3	6.7	6.7	6.0	6.3	5.7	6.0	5.3	6.1

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (SHADE), IA 1/
2019 DATA

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

NAME	GENETIC COLOR	DENSITY RATINGS			QUALITY RATINGS								
		SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
AH2	8.0	5.0	6.0	5.0	5.7	6.3	5.7	6.0	6.7	6.3	6.0	5.7	6.0
ATF2116	7.3	6.0	5.7	4.7	6.0	5.7	6.3	6.3	6.3	5.7	6.0	5.3	6.0
BAR 9FE MAS	8.0	5.3	6.3	4.0	5.3	6.3	6.7	6.3	6.7	5.7	5.0	5.7	6.0
BAR FA 8228	8.0	5.3	5.7	4.3	6.0	6.7	6.3	6.0	6.3	6.0	5.3	5.0	6.0
BAR-FA8230	7.7	5.7	6.0	4.7	6.3	6.0	5.7	6.3	6.7	5.7	5.7	5.7	6.0
BGR-TF3	8.3	6.0	6.0	5.0	6.0	6.3	6.0	6.3	6.7	5.7	5.3	6.0	6.0
BULLSEYE LTZ	7.7	5.3	5.7	4.0	6.3	6.3	5.3	5.7	6.0	6.3	5.7	6.3	6.0
DLFPS-TF/3550	8.0	6.0	5.7	4.3	6.3	6.0	6.3	6.7	6.0	5.7	5.7	5.3	6.0
DLFPS-TF/3552	7.7	5.3	6.0	4.7	6.0	6.3	6.3	6.3	6.3	5.7	5.7	5.7	6.0
ESCALADE	7.7	6.3	6.3	5.0	6.0	6.7	6.0	6.0	6.3	5.7	6.0	5.3	6.0
FIREHAWK SLT	7.3	6.7	5.7	4.3	6.3	6.3	6.0	5.3	6.3	5.7	5.7	6.0	6.0
K18-ROE	7.3	6.0	5.7	4.7	5.7	6.3	6.3	5.7	6.0	6.3	5.3	6.0	6.0
K18-RS6	8.0	6.0	5.7	4.7	5.7	6.7	6.0	6.3	6.3	6.0	6.0	5.0	6.0
PST-5DZM	7.7	5.7	5.3	4.3	6.0	6.0	6.0	5.3	6.3	6.0	6.0	6.3	6.0
RAD-TF131	8.3	5.0	5.7	4.7	6.3	5.7	5.7	5.7	6.3	6.7	5.7	6.3	6.0
RAPTOR III	8.3	6.7	6.3	4.3	6.0	6.3	6.0	6.0	6.3	6.0	5.3	5.7	6.0
RHL2	7.7	5.7	6.3	4.7	6.3	5.0	5.7	6.0	7.0	7.0	6.0	5.3	6.0
SE5STAR	8.3	5.0	5.7	4.0	6.3	6.0	6.0	6.0	6.3	6.3	5.7	5.7	6.0
3N1	7.7	6.3	6.3	5.0	5.7	6.0	6.0	6.7	6.3	6.0	5.7	5.0	5.9
DLFPS-321/3693	8.3	6.3	6.0	4.3	5.7	6.3	6.3	6.0	6.7	6.3	5.0	5.0	5.9
DLFPS-321/3708	8.3	7.0	6.0	4.3	6.7	6.3	6.0	5.7	6.3	6.3	5.3	4.7	5.9
ESTRENA	7.0	6.3	6.0	4.0	6.7	6.3	5.3	6.3	6.3	5.7	5.3	5.3	5.9
GO-AOMK	6.7	5.0	5.7	5.0	6.0	6.0	6.3	5.7	6.0	6.0	5.7	5.7	5.9
PPG-TF 313	7.7	6.3	5.7	5.3	6.0	6.0	5.7	5.7	6.0	6.3	5.7	5.7	5.9
PPG-TF 337	7.7	7.0	6.3	5.0	5.7	6.3	5.7	6.0	6.3	6.3	5.7	5.3	5.9
5LSS	7.3	5.3	5.7	4.7	6.0	5.7	6.0	6.0	6.3	5.3	5.7	5.3	5.8
AH1	7.7	6.0	6.0	5.0	5.7	5.7	6.0	6.0	6.0	6.0	5.7	5.0	5.8
AST8218LM	8.0	5.3	6.0	4.7	6.0	6.0	6.3	6.0	6.0	5.7	5.7	5.0	5.8
DLFPS-321/3694	8.0	6.0	6.3	4.7	5.7	5.3	6.0	6.0	6.7	6.0	5.0	5.3	5.8
DLFPS-321/3706	8.3	5.7	5.7	4.3	6.3	6.0	5.7	6.7	6.3	5.3	5.3	4.7	5.8
DLFPS-TF/3553	7.7	6.0	5.7	5.0	5.7	6.3	6.3	6.0	6.0	6.0	5.3	5.0	5.8
KENTUCKY-31	7.0	7.0	6.0	6.3	6.0	7.0	5.7	5.3	6.0	5.7	6.3	4.7	5.8
OG-WALK	8.0	7.3	5.7	4.0	6.0	6.3	6.7	6.0	6.3	5.3	5.0	5.0	5.8
PARAMOUNT	7.7	6.3	6.7	4.3	6.0	6.7	5.7	5.7	6.3	6.3	5.3	4.3	5.8
PPG-TF 338	7.0	6.0	5.7	4.3	6.0	6.0	6.0	6.0	6.0	5.7	5.3	5.0	5.8
SE53D2	7.7	5.3	5.3	5.0	6.3	6.0	6.0	5.3	6.3	5.3	5.3	5.3	5.8
BAR TF 134	7.7	6.0	5.7	4.0	6.3	6.3	5.3	6.0	6.0	5.7	5.0	5.0	5.7
PPG-TF 320	7.7	6.3	6.3	4.7	5.7	6.3	6.0	5.3	6.7	5.7	5.3	4.7	5.7
PALOMAR	7.7	6.0	5.3	4.0	5.7	5.7	6.0	5.7	5.7	5.7	4.7	5.7	5.6
DLFPS-321/3695	7.3	6.0	5.7	5.0	6.0	5.0	5.3	5.3	5.7	5.7	5.3	6.0	5.5
PPG-TF 267	8.3	5.0	4.7	4.0	6.7	6.0	5.3	5.3	6.0	5.3	4.7	4.7	5.5
PPG-TF 262	8.0	6.3	5.7	4.0	5.7	6.0	5.7	5.3	6.0	5.3	5.0	4.3	5.4
LSD VALUE	3.8	2.8	4.7	6.4	4.6	4.3	3.0	5.7	5.1	4.1	3.8	3.7	2.8
C.V. (%)	8.5	13.7	14.8	23.2	12.1	11.7	11.6	14.7	12.6	13.9	16.6	17.4	9.6

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

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

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (SHADE), IA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER						PERCENT ESTABLISHMENT	
	4_29	5_22	7_12	8_7	10_4	11_5	OCTOBER	NOVEMBER
DLFPS-321/3696	55.0	75.0	65.0	58.3	50.0	30.0	30.0	51.7
GO-RH20	80.0	75.0	76.7	61.7	53.3	43.3	43.3	63.3
PST-5TRN	61.7	81.7	76.7	60.0	61.7	30.0	35.0	53.3
BRAVO 2	45.0	68.3	80.0	60.0	46.7	16.7	36.7	55.0
DLFPS-321/3705	48.3	63.3	71.7	53.3	51.7	31.7	33.3	61.7
FAYETTE	53.3	55.0	78.3	61.7	51.7	25.0	21.7	51.7
GRANDE 3	60.0	81.7	75.0	55.0	45.0	33.3	36.7	63.3
JT 268	50.0	58.3	55.0	61.7	38.3	33.3	33.3	60.0
K18-NSE	40.0	85.0	66.7	48.3	61.7	36.7	40.0	58.3
PPG-TF 231	58.3	60.0	76.7	65.0	43.3	35.0	33.3	55.0
PPG-TF 254	56.7	60.0	61.7	56.7	38.3	26.7	41.7	68.3
SETF104	65.0	70.0	66.7	56.7	70.0	33.3	33.3	61.7
TURBO SS	48.3	66.7	70.0	56.7	35.0	33.3	43.3	55.0
DLFPS-321/3699	48.3	66.7	66.7	46.7	55.0	25.0	33.3	56.7
DRAGSTER	62.0	70.0	70.0	51.7	30.0	36.7	35.0	53.3
PADRE 2	43.3	66.7	60.0	58.3	48.3	23.3	33.3	56.7
PPG-TF 305	53.3	51.7	58.3	48.3	31.7	23.3	35.0	56.7
PPG-TF 306	55.0	65.0	68.3	56.7	63.3	21.7	40.0	63.3
PST-5GQ	58.3	61.7	63.3	56.7	56.7	30.0	25.0	51.7
PST-5MINK	50.0	51.7	68.3	48.3	48.3	18.3	26.7	58.3
BANDIT	38.3	63.3	55.0	41.7	38.3	20.0	30.0	55.0
COL-TF-148	56.7	68.3	60.0	50.0	38.3	26.7	25.0	50.0
COPIOUS TF	35.0	58.3	66.7	51.7	46.7	25.0	38.3	63.3
DLFPS-321/3702	50.0	81.7	50.0	36.0	41.7	23.3	30.0	45.0
JT 233	50.0	51.7	70.0	58.3	51.7	20.0	28.3	53.3
JT 517	33.3	71.7	78.3	43.3	53.3	20.0	33.3	53.3
PPG-TF 257	50.0	55.0	61.7	65.0	43.3	35.0	30.0	66.7
PPG-TF 308	35.0	55.0	68.3	51.7	48.3	25.0	36.7	66.7
PRO GOLD	46.7	71.7	66.7	43.3	46.7	20.0	30.0	56.7
PST-5BYOB	58.3	68.3	50.0	51.7	46.7	26.7	40.0	58.3
RH1	51.7	73.3	73.3	55.0	50.0	26.7	35.0	58.3
TF445	50.0	63.3	71.7	55.0	43.3	23.3	31.7	56.7
BIRMINGHAM	55.0	65.0	53.3	40.0	36.7	26.7	26.7	56.7
BULLSEYE	66.7	58.3	55.0	53.3	51.7	38.3	35.0	65.0
BY-TF-169	51.7	53.3	51.7	38.3	50.0	23.3	31.7	58.3
DLFPS-321/3701	41.7	63.3	63.3	46.7	28.3	26.7	33.3	56.7
DLFPS-321/3703	43.3	61.7	65.0	41.7	38.3	23.3	35.0	58.3
NAI-ROS4	53.3	40.0	58.3	53.3	40.0	28.3	40.0	56.7
NAI-TUE	70.0	65.0	65.0	47.0	25.0	30.0	45.0	63.3
PPG-TF 238	56.7	48.3	51.7	48.3	43.3	26.7	36.7	68.3
PPG-TF 318	55.0	50.0	63.3	55.0	38.3	21.7	35.0	55.0
PST-5DC24	45.0	53.3	66.7	45.0	25.0	21.7	38.3	60.0
PST-5E6	43.3	71.7	73.3	61.7	50.0	20.0	38.3	66.7
PST-5MCMO	53.3	68.3	48.3	51.7	50.0	16.7	33.3	56.7
RAD-TF105	63.3	63.3	68.3	55.0	28.3	26.7	30.0	60.0

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (SHADE), IA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER						PERCENT ESTABLISHMENT	
	4_29	5_22	7_12	8_7	10_4	11_5	OCTOBER	NOVEMBER
RH3	51.7	58.3	63.3	63.3	48.3	26.7	25.0	58.3
ZRC1	51.7	76.7	65.0	55.0	31.7	20.0	36.7	53.3
BONFIRE (JS DTT)	53.3	45.0	65.0	50.0	38.3	18.3	35.0	56.7
DLFPS-321/3679	43.3	70.0	53.3	40.0	46.7	18.3	33.3	61.7
GLX ACED (PST-5DART)	33.3	60.0	65.0	55.0	38.3	26.7	33.3	61.7
HEMI	58.3	60.0	61.7	51.7	45.0	30.0	41.7	66.7
LIFEGUARD	41.7	55.0	60.0	43.3	31.7	20.0	35.0	65.0
OKEEFE (LTP-TF-122)	51.7	58.3	60.0	45.0	45.0	25.0	40.0	48.3
PPG-TF 244	55.0	61.7	71.7	56.7	38.3	23.3	41.7	58.3
RC4	48.3	55.0	58.3	55.0	38.3	25.0	41.7	66.7
RDC	50.0	68.3	66.7	53.3	28.3	20.0	33.3	63.3
TANGO	38.3	48.3	61.7	43.3	45.0	21.7	36.7	56.7
3B2	46.7	71.7	60.0	41.7	35.0	16.7	31.7	55.0
A-TF31	45.0	56.7	53.3	51.7	36.7	23.3	26.7	43.3
DEGAS (LTP-TF-111)	45.0	60.0	53.3	38.3	36.7	20.0	33.3	65.0
LBF	51.7	85.0	51.7	35.0	20.0	13.3	41.7	65.0
NAI-3N2	46.7	48.3	61.7	55.0	28.3	23.3	35.0	58.3
NAI-FQZ-17	40.0	70.0	55.0	40.0	33.3	15.0	33.3	65.0
NAI-ST5	53.3	55.0	53.3	35.0	28.3	16.7	45.0	71.7
PST-5GLBS	33.3	43.3	58.3	55.0	43.3	26.7	31.7	61.7
PST-5SQB	35.0	33.3	36.7	36.7	36.7	11.7	38.3	58.3
SETFM3	46.7	63.3	55.0	40.0	25.0	18.3	38.3	63.3
TD2	55.0	60.0	51.7	40.0	36.7	15.0	41.7	60.0
TF456	36.7	55.0	58.3	43.3	30.0	20.0	36.7	60.0
GRAND PRIX (FC15-01P)	30.0	60.0	40.0	40.0	36.7	16.7	28.3	48.3
K18-WB1	41.7	66.7	56.7	45.0	43.3	33.3	33.3	60.0
NATURALLY GREEN	48.3	33.3	53.3	33.3	18.3	13.3	41.7	66.7
PPG-TF 249	43.3	48.3	55.0	53.3	30.0	28.3	33.3	58.3
PPG-TF 315	38.3	25.0	48.3	46.7	33.3	21.7	40.0	63.3
PPG-TF 316	45.0	45.0	40.0	36.7	26.7	21.7	41.7	61.7
PST-5THM	36.7	63.3	50.0	33.3	40.0	16.7	33.3	58.3
SESCR1	38.3	46.7	53.3	40.0	41.7	23.3	33.3	50.0
SETFM2	38.3	66.7	51.7	50.0	24.3	18.3	30.0	40.0
TMT1	36.7	38.3	46.7	43.3	40.0	25.0	36.7	60.0
AST8118LM	40.0	46.7	33.3	33.3	8.3	11.7	28.3	65.0
ATF1768	35.0	55.0	41.7	31.7	26.7	11.7	38.3	60.0
DLFPS-321/3707	43.3	53.3	58.3	41.7	36.7	21.7	30.0	58.3
MOONDANCE GLX	23.3	53.3	43.3	46.7	30.0	23.3	35.0	50.0
NT-3	50.0	55.0	46.7	43.3	28.3	18.3	40.0	66.7
PPG-TF 255	25.0	41.7	40.0	35.0	35.0	26.7	35.0	61.7
PPG-TF 312	40.0	55.0	50.0	41.7	41.7	21.7	33.3	51.7
PPG-TF 323	31.7	40.0	41.7	35.0	26.7	15.0	26.7	40.0
PPG-TF 336	45.0	50.0	56.7	53.3	43.3	26.7	36.7	60.0
RHF	50.0	33.3	55.0	36.7	38.3	15.0	38.3	60.0
RS1	41.7	53.3	43.3	38.3	25.0	15.0	38.3	60.0

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT AMES (SHADE), IA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER						PERCENT ESTABLISHMENT	
	4_29	5_22	7_12	8_7	10_4	11_5	OCTOBER	NOVEMBER
AH2	30.0	55.0	48.3	40.0	30.0	15.0	38.3	66.7
ATF2116	41.7	43.3	46.7	38.3	33.3	18.3	31.7	63.3
BAR 9FE MAS	35.0	60.0	38.3	30.0	13.3	11.7	31.7	56.7
BAR FA 8228	43.3	71.7	43.3	30.0	21.7	6.7	43.3	61.7
BAR-FA8230	40.0	46.7	48.3	46.7	33.3	21.7	31.7	56.7
BGR-TF3	46.7	63.3	51.7	40.0	20.0	16.7	41.7	63.3
BULLSEYE LTZ	41.7	40.0	40.0	33.3	41.7	21.7	40.0	53.3
DLFPS-TF/3550	50.0	58.3	36.7	21.7	31.7	10.0	38.3	60.0
DLFPS-TF/3552	25.0	48.3	46.7	41.7	35.0	20.0	28.3	63.3
ESCALADE	41.7	56.7	41.7	31.7	36.7	21.7	35.0	56.7
FIREHAWK SLT	36.7	45.0	40.0	35.0	33.3	16.7	36.7	53.3
K18-ROE	26.7	66.7	41.7	30.0	36.7	18.3	45.0	50.0
K18-RS6	31.7	46.7	41.7	35.0	28.3	13.3	38.3	61.7
PST-5DZM	18.3	26.7	35.0	33.3	38.3	20.0	35.0	55.0
RAD-TF131	36.7	45.0	53.3	36.7	30.0	26.7	40.0	65.0
RAPTOR III	33.3	50.0	48.3	36.7	28.3	13.3	33.3	53.3
RHL2	53.3	35.0	60.0	46.7	33.3	25.0	38.3	70.0
SE5STAR	48.3	60.0	38.3	25.0	26.7	11.7	30.0	55.0
3N1	21.7	40.0	38.3	26.7	28.3	11.7	31.7	50.0
DLFPS-321/3693	35.0	45.0	48.3	36.7	20.0	8.3	38.3	56.7
DLFPS-321/3708	36.7	43.3	43.3	31.7	20.0	8.3	31.7	56.7
ESTRENA	38.3	40.0	41.7	41.7	38.3	18.3	38.3	66.7
GO-AOMK	41.7	50.0	53.3	36.7	21.7	18.3	40.0	53.3
PPG-TF 313	33.3	38.3	43.3	33.3	26.7	21.7	40.0	63.3
PPG-TF 337	25.0	50.0	53.3	45.0	26.7	15.0	33.3	61.7
5LSS	46.7	50.0	38.3	31.7	33.3	15.0	35.0	56.7
AH1	31.7	31.7	28.3	21.7	21.7	13.3	40.0	60.0
AST8218LM	21.7	36.7	33.3	15.0	26.7	8.3	36.7	56.7
DLFPS-321/3694	31.7	36.7	48.3	35.0	25.0	15.0	40.0	60.0
DLFPS-321/3706	36.7	46.7	36.7	21.7	18.3	10.0	31.7	58.3
DLFPS-TF/3553	38.3	46.7	40.0	31.7	25.0	21.7	40.0	58.3
KENTUCKY-31	36.7	70.0	31.7	23.3	33.3	10.0	46.7	70.0
OG-WALK	25.0	55.0	25.0	16.7	8.3	6.7	31.7	55.0
PARAMOUNT	33.3	45.0	41.7	33.3	18.3	10.0	35.0	48.3
PPG-TF 338	33.3	33.3	30.0	23.3	16.7	10.0	36.7	60.0
SE53D2	50.0	43.3	41.7	38.3	35.0	18.3	31.7	55.0
BAR TF 134	40.0	35.0	33.3	25.0	15.0	10.0	35.0	61.7
PPG-TF 320	35.0	60.0	41.7	33.3	23.3	16.7	33.3	65.0
PALOMAR	18.3	36.7	21.7	15.0	6.7	5.0	31.7	48.3
DLFPS-321/3695	36.7	41.7	30.0	25.0	20.0	21.7	41.7	60.0
PPG-TF 267	41.7	40.0	20.0	18.3	10.0	6.7	41.7	63.3
PPG-TF 262	33.3	28.3	21.7	13.3	10.0	6.7	40.0	68.3
LSD VALUE	146.4	141.0	140.9	161.7	108.1	59.8	22.0	28.0
C.V. (%)	50.8	44.4	47.1	56.7	61.1	62.5	20.6	15.4

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

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

TABLE 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT WEST LAFAYETTE, IN 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SEEDLING VIGOR	SUMMER DENSITY	BROWN PATCH	MAY	JUN	QUALITY RATINGS				MEAN
								JUL	AUG	SEP	OCT	
BGR-TF3	7.0	6.7	6.0	6.7	6.7	6.7	7.0	7.0	6.7	7.3	7.0	6.9
DLFPS-TF/3552	6.3	7.0	5.0	7.0	7.0	7.7	7.0	7.3	6.3	6.3	6.7	6.9
SETFM2	6.7	7.0	5.7	7.0	7.0	7.0	7.0	7.0	6.7	7.0	7.0	6.9
3B2	6.7	7.0	4.7	7.7	8.3	6.3	6.3	6.7	7.0	7.0	7.3	6.8
DLFPS-TF/3550	6.7	7.3	6.0	7.0	6.7	7.0	6.3	7.7	6.0	6.7	7.0	6.8
ESCALADE	6.7	7.0	5.3	6.3	7.7	7.0	7.0	6.3	7.0	7.0	6.7	6.8
GRANDE 3	7.3	6.3	6.0	6.3	6.0	6.7	7.0	7.0	5.7	7.3	7.3	6.8
PPG-TF 313	7.3	6.7	5.7	6.7	6.7	7.0	6.7	6.7	6.7	6.7	7.0	6.8
PST-5GLBS	7.0	6.7	4.3	7.0	8.0	7.0	7.0	7.0	6.7	6.3	7.0	6.8
PST-5SQB	6.0	6.0	5.7	7.0	8.3	7.3	6.7	6.7	6.7	6.7	7.0	6.8
BANDIT	7.0	5.7	4.0	7.0	7.3	7.0	6.3	6.7	6.7	6.7	6.7	6.7
DEGAS (LTP-TF-111)	7.0	6.7	6.0	7.0	7.0	7.0	6.7	7.0	6.0	6.7	6.7	6.7
RH1	6.7	6.3	5.7	6.0	8.0	7.0	7.3	6.3	6.7	6.3	6.3	6.7
SE53D2	6.0	6.0	5.0	6.0	6.0	7.3	6.0	6.3	6.7	6.7	7.0	6.7
SE5STAR	6.7	6.0	6.0	6.7	7.3	6.7	7.0	6.7	6.3	7.0	6.7	6.7
SETF104	7.0	6.7	4.3	7.3	7.3	6.7	6.3	6.7	7.0	7.0	6.7	6.7
AH1	6.7	6.7	4.7	6.3	6.3	7.0	6.3	6.7	7.0	6.3	6.0	6.6
ATF2116	6.7	6.3	5.7	6.3	7.0	6.7	6.7	6.7	6.3	6.3	6.7	6.6
BRAVO 2	6.0	6.0	4.7	7.0	7.0	7.0	6.7	7.0	6.3	6.0	6.3	6.6
JT 517	6.3	6.7	7.0	6.3	7.0	7.3	7.0	6.7	6.7	5.7	6.3	6.6
PADRE 2	7.0	6.3	5.3	6.3	7.7	7.0	6.3	6.0	6.7	7.0	6.3	6.6
RAD-TF105	6.0	6.7	5.0	6.7	7.0	6.3	6.3	6.7	6.3	7.0	7.0	6.6
RHF	7.0	6.7	6.0	6.0	6.3	6.7	6.3	6.7	5.7	7.0	7.0	6.6
DLFPS-321/3695	6.7	7.0	6.3	6.7	6.0	7.0	6.7	6.3	5.7	7.0	6.3	6.5
GLX ACED (PST-5DART)	7.0	7.3	6.0	6.3	7.3	6.7	6.7	7.0	6.0	6.0	6.7	6.5
NAI-3N2	6.7	5.7	6.7	6.0	7.0	6.7	6.7	7.0	6.0	6.3	6.3	6.5
TD2	6.0	6.7	5.0	7.0	6.3	7.3	7.0	6.7	6.3	6.0	5.7	6.5
BULLSEYE LTZ	7.0	6.7	6.7	5.3	6.0	7.3	7.0	6.3	5.3	6.3	6.0	6.4
DLFPS-321/3707	6.7	6.0	5.3	6.3	7.0	6.3	6.3	6.3	6.7	6.0	6.7	6.4
ESTRENA	6.7	7.0	4.7	6.0	7.0	6.7	6.7	6.3	6.7	5.7	6.7	6.4
FAYETTE	6.0	6.3	5.7	7.0	5.7	6.7	6.3	7.0	6.0	6.0	6.3	6.4
LBF	6.0	5.7	4.7	7.3	6.3	6.7	6.0	6.7	5.7	7.0	6.3	6.4
OG-WALK	6.0	6.3	6.0	6.0	7.7	6.7	7.0	6.3	6.0	6.7	5.7	6.4
PRO GOLD	6.0	6.3	5.0	7.0	7.7	7.0	7.0	6.3	6.3	5.7	6.3	6.4
PST-5DC24	7.0	6.3	5.3	6.3	7.3	6.7	6.3	6.3	6.0	6.7	6.7	6.4
RAD-TF131	5.7	6.7	5.0	6.3	7.0	7.0	6.3	6.3	6.0	6.3	6.3	6.4
AH2	6.3	7.0	5.0	6.0	5.7	6.7	6.7	6.3	6.0	6.0	6.0	6.3
COL-TF-148	6.7	6.3	5.7	5.3	6.7	6.3	7.0	6.3	6.3	5.7	6.0	6.3
COPIOUS TF	6.7	6.0	4.7	6.7	7.3	6.0	6.3	6.3	6.0	6.7	6.3	6.3
DLFPS-321/3703	6.7	6.3	5.3	6.7	7.0	7.0	6.7	6.7	6.0	5.0	6.3	6.3
JT 233	6.3	7.0	5.3	7.0	7.0	7.0	6.0	6.7	6.3	5.7	6.0	6.3
K18-RS6	7.0	6.7	4.7	6.7	6.7	6.3	7.0	6.7	6.0	6.0	6.0	6.3
PPG-TF 267	6.7	5.7	5.7	6.7	7.3	7.0	6.7	6.0	6.0	6.3	6.0	6.3
PPG-TF 338	6.7	6.7	5.0	6.0	6.7	6.7	6.3	6.7	6.3	5.7	6.3	6.3
RH3	5.7	7.0	5.7	6.7	6.7	6.7	5.7	6.3	6.3	6.7	6.3	6.3

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT WEST LAFAYETTE, IN 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SEEDLING VIGOR	SUMMER DENSITY	BROWN PATCH	MAY	JUN	QUALITY RATINGS				OCT	MEAN
								JUL	AUG	SEP			
RS1	6.3	6.3	4.3	6.7	5.7	6.7	6.0	7.0	6.0	6.0	6.3	6.3	
TANGO	6.7	5.7	5.7	5.7	7.0	6.7	6.3	6.7	5.7	6.3	6.3	6.3	
TURBO SS	6.7	6.7	5.0	6.3	7.3	6.3	6.7	6.3	6.7	6.3	5.7	6.3	
5LSS	7.0	6.3	5.3	6.0	6.3	6.7	6.3	6.3	6.0	6.0	6.0	6.2	
AST8218LM	6.0	6.3	6.3	6.3	7.3	6.7	6.3	6.3	5.7	6.3	6.0	6.2	
ATF1768	7.0	6.0	5.0	5.3	7.0	6.7	6.3	6.3	5.0	6.3	6.3	6.2	
DLFPS-321/3679	7.0	6.7	4.7	6.3	7.0	6.3	5.7	6.0	6.0	6.7	6.7	6.2	
DLFPS-321/3699	6.0	5.7	4.0	6.3	8.0	6.3	6.0	6.3	6.7	5.3	6.3	6.2	
DLFPS-321/3702	7.0	6.0	4.3	7.0	7.3	7.3	6.7	6.7	5.7	5.0	6.0	6.2	
DLFPS-321/3705	5.3	6.0	5.0	6.0	7.0	6.7	6.7	6.0	6.3	5.7	5.7	6.2	
DLFPS-321/3706	5.7	6.0	6.0	6.0	7.0	6.7	6.3	5.3	6.7	6.3	6.0	6.2	
DLFPS-TF/3553	6.3	6.3	4.3	6.0	6.7	6.3	6.0	6.7	6.3	6.0	5.7	6.2	
BONFIRE (JS DTT)	6.3	6.3	6.3	6.0	7.3	7.0	6.3	6.7	6.0	5.3	5.7	6.2	
LIFEGUARD	7.3	6.0	5.3	7.0	6.7	6.7	6.7	6.0	6.3	5.7	6.0	6.2	
NAI-TUE	6.7	7.3	6.0	6.7	8.0	6.7	7.0	6.0	6.0	5.3	6.3	6.2	
NT-3	6.3	6.3	4.7	6.3	6.7	7.0	6.0	6.0	5.3	7.0	6.0	6.2	
PPG-TF 249	6.3	6.0	6.0	6.7	5.7	7.0	6.0	6.7	6.3	6.0	5.3	6.2	
PPG-TF 255	6.3	7.0	4.7	6.3	7.0	6.7	6.7	5.7	5.7	6.3	6.0	6.2	
PPG-TF 257	5.3	5.3	5.0	6.7	6.7	6.7	6.7	6.0	6.0	6.0	5.7	6.2	
PPG-TF 320	6.7	6.7	5.7	6.0	6.7	6.3	6.0	6.0	5.3	6.7	6.7	6.2	
RHL2	6.3	6.3	5.3	6.0	6.3	6.3	6.0	6.3	5.7	6.7	6.3	6.2	
SETFM3	7.3	6.3	6.0	5.7	5.0	6.7	6.3	5.7	5.7	6.7	6.0	6.2	
TF456	6.3	6.0	5.3	5.7	6.3	6.7	6.0	6.7	5.3	6.3	6.3	6.2	
TMT1	6.7	6.0	5.7	5.3	5.7	7.0	6.0	6.0	5.7	6.3	6.0	6.2	
BAR FA 8228	6.3	6.7	5.3	6.0	6.3	6.7	6.7	5.3	6.3	6.0	5.7	6.1	
BAR-FA8230	6.3	6.0	5.7	5.7	6.7	6.7	6.7	6.0	5.3	5.3	6.3	6.1	
BULLSEYE	6.3	6.0	4.7	5.7	5.0	6.3	6.0	6.3	5.7	6.3	5.7	6.1	
BY-TF-169	6.3	6.7	4.3	7.0	6.7	6.7	5.7	6.7	6.3	5.7	5.7	6.1	
DLFPS-321/3696	5.3	5.7	4.7	5.7	7.3	6.7	7.0	6.0	6.3	5.0	5.3	6.1	
GRAND PRIX (FC15-01P)	6.7	6.0	5.0	6.0	5.7	6.3	6.0	6.0	5.7	6.3	6.0	6.1	
K18-ROE	5.7	6.0	5.0	6.3	7.0	6.7	6.7	6.7	5.7	5.3	5.3	6.1	
MOONDANCE GLX	6.3	6.3	6.0	6.3	6.7	7.0	6.7	6.7	5.3	4.7	6.0	6.1	
NAI-ST5	6.0	6.3	4.3	5.7	6.7	6.3	5.7	6.0	6.0	6.3	6.0	6.1	
PALOMAR	5.7	5.7	4.7	5.7	6.3	6.7	6.7	6.3	5.7	5.7	5.3	6.1	
PPG-TF 244	5.3	6.0	5.7	6.0	6.7	6.3	6.3	6.0	6.3	5.7	6.0	6.1	
PPG-TF 308	6.3	7.0	5.7	6.7	8.0	6.7	7.0	6.3	6.0	5.3	5.3	6.1	
PST-5BYOB	6.7	5.7	4.0	6.3	6.3	6.7	6.3	6.0	5.7	6.0	5.7	6.1	
PST-5DZM	6.0	6.0	7.0	5.7	8.0	6.7	6.0	6.3	5.3	6.0	6.0	6.1	
PST-5MCMO	5.3	5.7	4.3	5.3	7.3	6.7	6.7	6.3	6.0	5.3	5.7	6.1	
PST-5MINK	6.0	5.7	5.0	5.0	5.3	7.3	6.7	6.7	5.0	5.0	5.7	6.1	
DRAGSTER	5.7	6.3	5.0	6.0	6.7	6.3	6.7	6.3	6.0	5.3	5.3	6.0	
HEMI	6.3	6.7	5.0	6.3	7.3	6.3	6.7	6.7	5.3	5.3	5.7	6.0	
K18-NSE	6.3	6.0	5.0	6.3	6.3	7.0	6.3	6.3	5.0	5.7	5.7	6.0	
NAI-ROS4	6.3	6.3	5.7	5.3	7.0	6.7	7.0	6.3	5.3	5.0	5.7	6.0	
PPG-TF 262	6.7	6.3	5.3	6.3	7.3	6.3	6.0	6.3	6.0	5.3	6.0	6.0	

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT WEST LAFAYETTE, IN 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SEEDLING VIGOR	SUMMER DENSITY	BROWN PATCH	MAY	JUN	QUALITY JUL	RATINGS AUG	SEP	OCT	MEAN
PPG-TF 312	6.0	6.3	5.7	5.3	6.0	7.0	5.7	7.0	5.0	6.0	5.3	6.0
PPG-TF 323	6.3	6.3	5.3	6.3	6.3	6.7	6.3	5.3	5.3	6.0	6.3	6.0
RDC	6.7	6.7	4.7	5.3	4.3	6.3	6.0	6.0	5.3	6.3	6.0	6.0
3N1	6.3	5.0	5.0	5.7	5.3	6.3	5.7	6.3	5.7	6.0	5.7	5.9
BAR 9FE MAS	6.0	6.0	5.3	5.0	5.0	6.7	6.0	6.0	4.7	6.3	5.7	5.9
GO-AOMK	7.0	6.0	5.3	5.0	5.7	7.0	6.3	6.0	5.3	5.3	5.3	5.9
K18-WB1	6.3	7.3	4.7	7.0	6.7	6.0	6.0	5.7	6.0	6.0	6.0	5.9
NAI-FQZ-17	5.7	5.7	5.3	6.0	6.3	6.7	6.0	6.3	5.3	5.0	6.0	5.9
RAPTOR III	5.7	6.7	5.3	6.3	7.7	6.0	6.0	6.0	5.3	6.3	5.7	5.9
RC4	6.3	5.7	5.0	6.3	7.3	6.7	6.7	6.7	5.7	5.0	5.0	5.9
TF445	6.3	6.0	5.3	5.0	5.7	6.0	5.3	6.3	5.3	6.0	6.3	5.9
A-TF31	5.7	6.0	5.0	5.0	6.0	6.3	5.3	6.3	5.3	5.7	5.7	5.8
AST8118LM	6.7	6.7	4.7	5.3	4.3	6.0	5.7	5.3	6.0	6.3	5.7	5.8
BAR TF 134	6.3	6.7	6.3	6.0	6.0	6.3	6.3	6.0	5.0	5.3	6.0	5.8
DLFPS-321/3694	6.0	6.0	5.0	6.7	7.3	6.3	6.3	5.7	5.3	5.7	5.3	5.8
DLFPS-321/3701	6.7	5.3	3.7	6.7	6.0	6.7	5.7	6.7	5.3	5.0	5.3	5.8
DLFPS-321/3708	6.7	6.3	5.0	5.7	6.3	6.3	6.0	6.0	5.3	5.7	5.7	5.8
KENTUCKY-31	6.7	5.3	5.7	5.3	5.3	6.7	6.0	5.7	5.3	6.3	5.0	5.8
OKEEFE (LTP-TF-122)	6.3	6.3	5.0	5.7	5.3	6.3	6.0	6.3	5.3	5.7	5.3	5.8
NATURALLY GREEN	6.0	5.7	5.0	6.3	6.0	6.3	6.3	6.3	4.7	5.7	5.7	5.8
PST-5E6	6.3	6.3	5.0	5.7	5.0	6.7	6.3	6.0	5.3	5.0	5.7	5.8
PST-5GQ	5.3	6.7	4.7	5.7	6.7	6.3	6.0	6.7	5.3	5.3	5.0	5.8
ZRC1	6.3	5.7	4.7	5.3	4.3	6.0	6.3	6.0	5.3	5.7	5.7	5.8
BIRMINGHAM	6.3	6.7	4.3	5.3	6.0	7.0	7.0	5.7	4.7	5.0	5.0	5.7
DLFPS-321/3693	5.7	6.3	4.3	5.3	6.0	6.3	5.7	5.3	5.7	5.7	5.3	5.7
PPG-TF 305	6.3	5.7	4.3	5.0	5.7	6.0	5.7	5.7	5.7	5.3	6.0	5.7
PST-5THM	6.0	6.0	5.0	5.7	7.3	6.7	5.7	6.3	5.0	5.3	5.3	5.7
FIREHAWK SLT	6.7	6.0	4.7	5.7	4.3	6.7	6.3	6.3	4.3	4.7	5.3	5.6
GO-RH20	5.3	6.7	5.0	5.3	6.3	6.3	6.3	6.3	5.0	4.7	4.7	5.6
JT 268	5.7	6.7	5.0	6.7	7.7	5.7	5.7	5.7	6.7	4.7	5.3	5.6
PPG-TF 231	6.3	6.0	5.7	5.7	5.3	6.7	6.0	5.7	5.0	5.0	5.0	5.6
PPG-TF 318	5.7	6.0	4.3	5.0	6.7	6.3	6.0	5.0	5.0	5.3	5.7	5.6
PPG-TF 336	5.3	5.3	5.7	6.0	5.3	6.7	6.3	6.0	4.3	4.7	5.3	5.6
PST-5TRN	6.0	5.7	4.3	6.0	5.7	6.3	5.7	6.3	5.0	5.3	5.0	5.6
SESCR1	5.3	5.7	6.0	6.3	8.0	5.7	6.3	5.7	5.3	5.3	5.3	5.6
PPG-TF 254	7.3	6.7	5.0	5.0	4.3	6.7	5.7	5.7	5.3	4.7	5.0	5.5
PPG-TF 306	6.3	6.3	5.7	5.3	5.3	6.3	6.3	6.0	4.3	5.0	5.0	5.5
PARAMOUNT	5.3	5.7	5.3	5.7	5.3	6.0	5.3	5.7	5.3	5.3	4.7	5.4
PPG-TF 315	6.3	5.3	5.0	4.3	4.0	6.7	5.7	6.0	5.0	4.7	4.7	5.4
PPG-TF 316	6.7	5.7	5.3	6.0	5.3	6.3	6.0	5.0	5.3	5.0	4.7	5.4
PPG-TF 337	5.0	5.7	5.3	5.3	6.7	5.3	5.7	6.0	4.7	5.0	4.7	5.2
PPG-TF 238	6.7	6.3	4.0	4.7	4.3	5.3	5.0	4.7	5.0	5.3	5.0	5.1
LSD VALUE	1.9	1.6	2.2	2.1	3.0	2.5	2.2	1.9	2.9	1.1	1.6	1.2
C.V. (%)	11.6	10.6	17.1	14.3	19.5	9.6	11.1	11.1	16.2	11.2	13.0	8.5

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

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

TABLE 9.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST AT MANHATTAN, KS 1/
 2019 DATA

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

NAME	LEAF		BROWN		QUALITY RATINGS			MEAN		
	TEXTURE		PATCH		JUN	JUL	AUG		SEP	OCT
ZRC1	7.7		9.0		5.7	6.0	6.7	6.3	7.7	6.5
PPG-TF 306	7.3		9.0		5.7	6.3	7.0	6.0	7.0	6.4
JT 268	7.0		7.0		5.7	5.7	7.0	6.0	7.3	6.3
PPG-TF 323	7.3		9.0		5.0	5.7	7.3	6.0	7.3	6.3
RHL2	7.3		8.7		5.0	5.3	7.3	6.7	7.3	6.3
TF445	7.3		8.7		5.3	6.0	6.7	6.3	7.3	6.3
DLFPS-321/3702	7.3		6.3		6.0	4.7	7.0	5.7	7.7	6.2
PPG-TF 337	7.7		8.0		5.7	5.7	7.0	5.7	7.0	6.2
RC4	7.3		8.3		4.7	5.7	6.7	6.3	7.7	6.2
AH2	6.7		9.0		5.3	5.3	6.7	6.3	7.0	6.1
BY-TF-169	7.3		9.0		5.3	5.3	6.3	6.0	7.7	6.1
DLFPS-321/3705	6.7		9.0		5.0	6.0	6.0	6.3	7.0	6.1
DRAGSTER	7.0		8.7		5.3	6.0	6.3	5.7	7.0	6.1
JT 233	7.0		7.7		5.7	5.7	7.0	5.3	7.0	6.1
NT-3	7.0		9.0		5.0	6.0	6.3	6.0	7.3	6.1
PPG-TF 238	7.3		8.3		4.7	5.0	7.0	6.3	7.7	6.1
TF456	7.3		8.7		5.3	6.3	5.7	6.0	7.3	6.1
DLFPS-321/3703	7.3		7.0		6.0	5.0	6.3	5.3	7.3	6.0
DLFPS-TF/3553	7.3		7.7		5.0	5.0	7.0	5.7	7.3	6.0
BONFIRE (JS DTT)	7.0		8.7		5.0	5.7	6.0	6.3	7.0	6.0
PPG-TF 255	7.3		8.7		5.0	6.0	7.0	5.7	6.3	6.0
PPG-TF 338	6.7		8.3		5.0	5.3	7.0	6.3	6.3	6.0
RAD-TF105	7.0		6.7		6.0	4.7	6.7	5.7	7.0	6.0
DLFPS-321/3696	7.0		8.3		5.0	5.7	6.3	5.3	7.0	5.9
PPG-TF 254	6.7		8.7		5.0	5.0	6.3	6.3	6.7	5.9
PPG-TF 267	6.5		8.5		5.0	5.0	6.5	6.0	7.0	5.9
RHF	7.0		9.0		4.3	5.0	6.7	6.0	7.7	5.9
DLFPS-321/3699	7.0		8.3		4.7	4.3	7.0	6.3	6.7	5.8
GO-RH20	7.0		8.7		5.0	6.0	6.0	5.3	6.7	5.8
K18-ROE	6.3		8.3		4.7	5.0	6.3	5.3	7.0	5.7
PPG-TF 312	7.7		7.0		4.7	4.3	7.0	5.7	6.7	5.7
PPG-TF 315	7.7		8.3		5.0	5.0	6.0	5.7	7.0	5.7
PPG-TF 316	7.3		8.3		5.3	4.7	6.3	5.7	6.7	5.7
PPG-TF 318	7.0		8.0		5.3	4.7	5.3	6.0	7.3	5.7
LIFEGUARD	7.0		6.0		5.0	4.3	6.0	5.7	7.0	5.6
RH1	6.3		7.3		4.7	4.7	6.0	5.7	7.0	5.6
BULLSEYE LTZ	7.0		8.5		5.0	4.5	6.0	5.5	6.5	5.5
DLFPS-321/3708	7.0		9.0		5.3	6.0	5.7	4.7	6.0	5.5
SESCR1	6.3		8.7		4.0	4.7	6.7	5.7	6.7	5.5
A-TF31	6.7		6.3		7.0	4.0	5.3	4.3	6.3	5.4
GRANDE 3	6.3		8.0		4.3	4.3	6.0	5.3	7.0	5.4
LBF	6.0		7.7		5.0	4.7	6.0	5.0	6.3	5.4
PPG-TF 336	7.0		8.7		4.7	4.3	6.7	5.0	6.3	5.4
BGR-TF3	6.0		5.3		4.7	4.7	5.7	4.7	6.7	5.3
COPIOUS TF	6.7		6.0		5.0	5.0	5.3	5.3	6.0	5.3

TABLE 9. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) IN THE 2018 NATIONAL TALL FESCUE TEST AT MANHATTAN, KS 1/
2019 DATA

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

NAME	LEAF	BROWN	QUALITY RATINGS						MEAN
	TEXTURE	PATCH	JUN	JUL	AUG	SEP	OCT		
DLFPS-321/3679	6.7	6.7	4.3	4.3	6.0	5.7	6.3	5.3	
DLFPS-321/3701	7.0	8.7	4.0	4.3	5.7	5.7	6.7	5.3	
K18-RS6	6.7	9.0	4.3	4.3	6.0	5.3	6.7	5.3	
OKEEFE (LTP-TF-122)	7.0	9.0	3.7	4.3	6.0	5.3	7.0	5.3	
PPG-TF 249	6.3	7.7	4.3	4.3	6.0	5.3	6.7	5.3	
3N1	6.0	8.3	4.3	5.0	5.7	5.0	6.0	5.2	
BAR TF 134	6.3	8.7	4.0	4.7	5.7	5.3	6.3	5.2	
DLFPS-TF/3552	6.7	8.7	3.7	4.3	6.0	5.7	6.3	5.2	
PPG-TF 308	6.3	9.0	3.7	4.3	6.0	5.3	6.7	5.2	
PST-5MINK	6.0	6.3	5.3	4.3	5.3	5.0	6.0	5.2	
PST-5TRN	6.0	9.0	4.7	5.0	5.7	4.7	6.0	5.2	
RH3	7.0	8.3	4.7	5.3	5.3	4.3	6.3	5.2	
RS1	7.0	9.0	4.0	4.0	6.3	5.3	6.3	5.2	
SE5STAR	6.3	7.0	5.0	4.3	5.7	5.0	6.0	5.2	
3B2	5.3	8.7	4.3	4.3	5.3	5.3	6.3	5.1	
5LSS	7.7	7.7	3.7	4.0	6.0	5.3	6.3	5.1	
BANDIT	5.0	7.3	5.7	5.3	5.3	4.0	5.0	5.1	
DLFPS-321/3706	6.7	7.7	5.0	4.3	6.0	4.3	5.7	5.1	
DLFPS-TF/3550	6.3	7.7	4.3	4.3	6.0	5.0	6.0	5.1	
FAYETTE	6.7	8.0	5.0	4.7	5.3	4.7	6.0	5.1	
PPG-TF 244	6.3	8.3	4.3	3.7	5.0	5.7	6.7	5.1	
PST-5E6	5.0	7.3	3.7	4.7	6.0	5.0	6.0	5.1	
SETFM2	6.0	7.7	5.7	4.3	5.0	4.7	6.0	5.1	
SETFM3	5.7	4.3	5.0	4.0	5.3	5.0	6.3	5.1	
TD2	7.0	8.7	4.0	4.3	5.7	5.3	6.0	5.1	
DLFPS-321/3695	6.7	8.0	4.7	4.0	5.3	5.0	6.0	5.0	
HEMI	5.3	8.7	4.0	5.0	5.3	4.3	6.3	5.0	
JT 517	6.3	8.0	5.0	4.0	4.7	5.0	6.3	5.0	
PPG-TF 320	6.0	8.7	4.0	4.3	5.7	5.3	5.7	5.0	
PST-5THM	6.3	9.0	4.3	5.0	5.3	4.7	5.7	5.0	
AST8118LM	6.0	6.7	4.3	4.3	5.3	4.7	6.0	4.9	
BAR 9FE MAS	6.3	7.7	4.7	4.0	5.3	4.0	6.7	4.9	
BAR-FA8230	5.3	9.0	4.7	4.7	5.3	4.0	5.7	4.9	
K18-NSE	7.0	9.0	4.0	4.3	5.7	5.0	5.3	4.9	
K18-WB1	7.3	7.0	3.7	4.0	5.7	5.3	6.0	4.9	
NAI-TUE	5.7	8.7	4.0	4.3	5.3	5.0	6.0	4.9	
NATURALLY GREEN	4.7	8.7	4.3	4.3	5.0	5.0	5.7	4.9	
PPG-TF 231	6.5	8.0	5.0	4.5	5.5	4.0	5.5	4.9	
PPG-TF 257	5.7	8.0	4.3	4.3	5.3	5.3	5.3	4.9	
PRO GOLD	6.0	9.0	4.3	5.0	5.3	4.0	5.7	4.9	
RAPTOR III	6.3	8.7	4.0	4.0	5.3	4.7	6.7	4.9	
RDC	5.7	8.7	4.3	4.3	5.3	5.3	5.0	4.9	
BAR FA 8228	4.3	8.3	4.0	4.7	5.0	5.0	5.3	4.8	
PPG-TF 262	6.3	9.0	3.7	3.7	6.0	4.7	6.0	4.8	
PPG-TF 305	6.7	6.3	4.0	3.0	5.7	5.0	6.3	4.8	

TABLE 9. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 (CONT'D) IN THE 2018 NATIONAL TALL FESCUE TEST AT MANHATTAN, KS 1/
 2019 DATA

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

NAME	QUALITY RATINGS							MEAN
	LEAF TEXTURE	BROWN PATCH	JUN	JUL	AUG	SEP	OCT	
SETF104	6.3	8.3	4.3	4.0	5.3	4.7	5.7	4.8
TURBO SS	6.0	9.0	4.7	5.0	4.7	4.0	5.7	4.8
AST8218LM	5.0	8.0	5.0	4.3	5.0	4.0	5.3	4.7
DLFPS-321/3693	6.7	7.3	5.0	3.7	4.7	4.7	5.3	4.7
ESTRENA	7.3	8.7	4.3	4.0	5.0	4.3	6.0	4.7
GRAND PRIX (FC15-01P)	5.3	6.3	4.7	3.7	5.0	4.7	5.7	4.7
PADRE 2	6.5	9.0	4.5	5.0	5.0	3.5	5.5	4.7
PARAMOUNT	6.3	9.0	3.7	4.7	5.3	4.3	5.3	4.7
PST-5DC24	5.0	8.3	4.0	4.3	5.0	4.7	5.3	4.7
PST-5GLBS	4.3	7.0	4.0	3.7	5.3	5.0	5.3	4.7
PST-5MCMO	5.7	9.0	4.0	4.0	5.0	4.7	5.7	4.7
ATF2116	4.5	9.0	3.5	4.0	5.5	5.0	5.0	4.6
BIRMINGHAM	5.7	5.0	4.0	3.7	4.7	4.7	6.0	4.6
ESCALADE	4.7	9.0	4.7	4.7	4.7	4.0	5.0	4.6
GLX ACED (PST-5DART)	5.7	8.7	3.7	4.3	5.0	4.3	5.7	4.6
NAI-FQZ-17	5.7	7.7	4.3	4.0	4.7	4.3	5.7	4.6
PST-5BYOB	4.7	8.3	4.0	4.3	5.3	4.3	5.0	4.6
TMT1	6.0	9.0	4.0	3.7	4.7	5.0	5.7	4.6
BRAVO 2	5.0	8.0	4.7	4.0	4.3	4.0	5.7	4.5
DLFPS-321/3694	7.0	8.3	4.3	3.7	5.0	4.3	5.0	4.5
DLFPS-321/3707	7.0	8.3	4.3	4.0	5.0	4.0	5.0	4.5
NAI-3N2	5.7	8.7	4.3	4.0	4.7	4.3	5.3	4.5
NAI-ROS4	5.3	7.3	3.3	3.3	5.3	4.7	5.7	4.5
OG-WALK	4.7	6.3	4.7	4.0	4.3	4.0	5.3	4.5
PPG-TF 313	7.0	8.7	4.7	3.7	5.0	4.3	5.0	4.5
ATF1768	5.3	8.3	4.0	4.0	5.0	3.7	5.3	4.4
FIREHAWK SLT	5.7	8.3	4.3	4.0	4.7	4.7	4.3	4.4
GO-AOMK	6.0	6.0	4.7	3.3	4.7	3.7	5.7	4.4
MOONDANCE GLX	5.0	8.0	4.3	4.0	5.0	4.0	4.7	4.4
NAI-ST5	5.3	9.0	3.7	4.0	5.3	4.0	5.0	4.4
SE53D2	5.0	7.3	4.3	3.3	5.0	4.3	5.0	4.4
DEGAS (LTP-TF-111)	5.3	9.0	3.3	3.3	4.7	4.7	5.7	4.3
PST-5DZM	5.3	5.3	4.3	3.3	4.3	4.0	5.7	4.3
RAD-TF131	5.7	8.7	3.7	3.7	4.7	4.3	5.3	4.3
PALOMAR	4.3	6.3	4.0	4.0	4.3	4.0	4.7	4.2
TANGO	5.0	8.0	4.0	3.7	4.3	4.0	5.0	4.2
BULLSEYE	5.3	8.0	4.0	3.3	4.7	3.7	5.0	4.1
PST-5SQB	4.7	9.0	3.7	3.3	4.3	4.3	5.0	4.1
COL-TF-148	6.3	9.0	3.3	3.3	4.3	4.0	4.7	3.9
PST-5GQ	4.7	9.0	3.3	3.0	4.3	4.0	4.3	3.8
AH1	5.7	9.0	2.7	3.0	4.3	3.7	4.7	3.7
KENTUCKY-31	2.0	9.0	2.7	3.0	3.0	2.7	4.0	3.1
LSD VALUE	1.8	4.2	5.2	4.6	1.8	2.0	2.9	2.2
C.V. (%)	15.8	18.1	25.9	27.5	16.8	19.4	19.1	17.6

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

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

TABLE 10.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LEXINGTON, KY 1/
2019 DATA

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

NAME	SEEDLING	QUALITY RATINGS									MEAN
	VIGOR	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
DLFPS-321/3695	4.7	6.0	6.7	6.7	5.3	5.7	7.0	6.7	7.3	5.7	6.3
DLFPS-321/3705	4.3	5.0	7.0	6.7	5.3	6.3	6.3	7.0	6.3	5.7	6.2
DLFPS-TF/3552	4.3	5.3	7.0	7.0	5.3	5.3	6.0	7.0	7.0	5.7	6.2
K18-RS6	4.7	5.7	6.7	6.7	6.0	6.0	6.0	6.7	6.3	5.7	6.2
PPG-TF 312	4.7	5.3	6.7	6.7	5.7	6.0	6.7	6.7	7.0	5.3	6.2
PPG-TF 316	4.7	5.3	6.7	7.0	5.3	5.7	6.3	6.7	7.0	5.7	6.2
PPG-TF 336	4.7	5.0	6.3	6.7	5.7	6.3	6.0	7.0	6.7	6.0	6.2
RDC	4.0	5.0	6.7	6.3	5.3	5.7	6.3	6.7	7.7	6.0	6.2
RHL2	4.3	4.7	6.3	6.7	5.3	6.0	6.0	6.3	8.0	6.7	6.2
TF456	4.3	5.3	6.7	6.7	5.3	6.0	6.0	6.7	7.0	6.0	6.2
AH1	4.7	5.0	6.3	6.7	5.7	6.0	6.0	6.7	7.0	5.7	6.1
AH2	4.7	4.7	7.0	6.3	5.7	5.7	6.3	6.7	6.7	5.7	6.1
DLFPS-321/3693	4.3	5.0	6.7	6.3	5.3	5.7	6.3	6.3	7.0	6.0	6.1
FIREHAWK SLT	3.3	4.3	6.3	6.7	5.7	6.0	6.3	6.3	7.0	6.0	6.1
NAI-3N2	4.7	5.0	6.0	6.3	5.3	5.7	6.7	7.3	7.0	5.7	6.1
NAI-ROS4	4.3	5.3	6.3	6.3	5.7	5.7	6.3	6.7	7.0	6.0	6.1
NAI-ST5	4.0	4.7	6.7	6.3	5.3	6.0	6.7	6.7	7.0	5.7	6.1
PPG-TF 231	4.7	5.0	6.7	6.7	6.0	6.0	6.0	6.7	6.3	5.7	6.1
PPG-TF 238	4.3	5.0	6.3	6.7	5.3	5.0	6.3	6.7	7.3	6.0	6.1
PPG-TF 249	4.7	5.0	6.7	6.7	6.0	5.7	6.0	7.0	6.0	6.0	6.1
PPG-TF 254	4.3	4.7	6.3	6.3	5.3	6.0	6.0	7.0	7.0	6.0	6.1
PPG-TF 306	4.3	5.0	6.7	6.7	5.3	5.7	6.3	6.3	7.0	6.0	6.1
PPG-TF 318	4.7	5.3	6.0	6.3	5.7	6.0	6.3	6.7	7.0	5.3	6.1
PPG-TF 323	4.3	5.3	6.3	6.0	5.7	6.3	6.0	7.0	6.7	5.3	6.1
RC4	4.7	5.0	6.7	6.3	5.0	6.0	6.3	7.0	6.7	5.7	6.1
SESCR1	4.7	4.7	7.0	6.7	5.7	5.3	6.3	7.0	6.7	5.7	6.1
TMT1	4.7	5.0	7.0	6.7	5.3	5.7	6.0	6.7	6.7	5.7	6.1
ZRC1	4.7	4.3	6.7	7.0	5.7	5.3	5.7	6.7	7.3	6.0	6.1
COL-TF-148	3.3	4.3	6.0	6.7	5.7	6.0	5.7	6.7	7.0	6.0	6.0
DRAGSTER	3.7	5.0	6.7	6.3	5.7	5.7	6.0	5.7	7.0	5.7	6.0
BONFIRE (JS DTT)	4.3	4.7	6.3	6.3	5.7	6.0	6.0	6.7	6.3	5.7	6.0
K18-NSE	4.3	4.7	6.7	6.7	5.7	6.0	6.0	7.0	6.3	5.0	6.0
OKEEFE (LTP-TF-122)	3.3	4.7	6.7	6.3	5.0	5.7	6.3	7.0	7.0	5.7	6.0
NATURALLY GREEN	4.3	4.3	6.7	6.7	5.0	5.3	6.0	6.0	7.3	6.7	6.0
NT-3	4.7	5.7	6.7	6.3	5.7	5.7	6.0	6.3	6.7	5.3	6.0
PPG-TF 244	4.0	5.0	6.7	6.0	5.7	5.3	6.0	6.7	7.0	6.0	6.0
PPG-TF 255	4.0	4.7	6.3	6.7	5.0	5.3	6.3	7.0	7.0	6.0	6.0
PPG-TF 305	4.7	5.3	7.0	6.3	5.7	5.3	5.7	5.7	6.7	6.0	6.0
PPG-TF 320	4.3	4.7	6.3	6.7	5.3	5.7	6.0	6.7	6.7	5.7	6.0
PPG-TF 337	4.3	4.3	6.7	6.0	5.7	5.7	6.3	6.7	6.7	5.7	6.0
RAPTOR III	4.0	4.3	6.3	6.0	5.3	6.0	6.3	6.7	6.7	6.3	6.0
RH1	4.3	5.0	7.0	6.3	5.0	5.7	5.3	6.0	7.3	6.7	6.0
RH3	4.0	4.7	6.3	6.7	5.7	6.0	6.0	6.0	6.7	5.7	6.0
RHF	4.3	5.0	6.7	6.7	5.0	5.3	6.7	6.3	6.7	6.0	6.0
RS1	4.0	5.0	6.3	6.3	5.0	6.0	6.0	7.0	6.7	5.3	6.0

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LEXINGTON, KY 1/
2019 DATA

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

NAME	SEEDLING	QUALITY RATINGS									
	VIGOR	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
TD2	3.7	4.7	6.7	6.3	5.3	6.0	6.0	7.0	6.7	5.7	6.0
ATF1768	4.3	5.0	6.3	6.7	5.0	5.7	5.7	6.0	6.7	5.7	5.9
BGR-TF3	4.3	5.0	7.0	6.0	5.7	5.3	6.0	6.0	6.7	5.7	5.9
BRAVO 2	4.0	5.3	6.3	6.3	5.3	5.7	6.0	6.0	6.3	5.3	5.9
BULLSEYE LTZ	4.0	4.7	6.0	6.0	5.7	5.7	6.0	6.7	6.7	5.7	5.9
BY-TF-169	3.3	4.7	5.7	6.3	5.7	5.7	6.3	6.7	6.3	5.7	5.9
DLFPS-321/3679	4.3	5.3	6.3	6.3	5.3	5.7	6.0	5.7	6.7	6.0	5.9
DLFPS-321/3694	4.3	4.3	6.0	6.3	5.0	5.7	5.7	6.0	7.3	6.3	5.9
DLFPS-321/3701	3.3	4.3	6.0	6.3	5.3	5.3	6.0	6.7	7.0	6.0	5.9
DLFPS-321/3702	4.3	4.7	6.0	6.3	5.0	5.3	6.0	6.7	7.0	6.3	5.9
DLFPS-321/3703	3.7	4.7	6.3	6.3	5.3	6.0	6.0	6.0	6.7	6.0	5.9
DLFPS-321/3706	3.7	4.7	6.0	6.3	5.0	6.0	6.3	7.0	6.3	5.3	5.9
DLFPS-TF/3553	4.3	4.7	6.0	6.3	5.7	5.7	6.0	6.7	6.3	5.7	5.9
ESTRENA	4.7	5.0	6.3	6.7	5.3	5.3	6.0	6.3	6.7	5.3	5.9
GLX ACED (PST-5DART)	4.0	4.7	6.0	6.0	5.0	6.3	6.0	6.3	6.7	5.7	5.9
GO-AOMK	3.3	4.7	6.7	6.0	5.3	5.7	6.0	6.0	6.7	5.7	5.9
GRANDE 3	4.3	5.0	7.0	6.7	5.7	5.7	6.0	6.0	6.0	5.0	5.9
HEMI	4.3	5.7	6.7	7.0	5.3	5.3	5.3	5.7	6.7	5.7	5.9
JT 268	4.3	4.7	6.7	6.3	5.3	5.7	5.7	7.0	6.3	5.7	5.9
K18-WB1	4.7	4.7	6.3	6.0	5.0	5.7	6.3	6.7	6.7	6.0	5.9
LIFEGUARD	4.0	4.3	6.7	6.3	5.7	5.3	6.3	6.0	6.7	5.7	5.9
DEGAS (LTP-TF-111)	3.3	4.3	6.3	6.3	5.7	5.7	6.3	6.3	6.3	5.3	5.9
MOONDANCE GLX	4.3	4.7	6.7	6.3	5.3	5.7	5.7	6.3	6.7	5.3	5.9
NAI-TUE	4.0	4.7	6.7	6.0	5.3	5.3	6.0	7.0	6.7	5.3	5.9
PPG-TF 262	3.7	4.0	6.0	6.0	5.3	5.7	6.0	6.7	7.3	6.3	5.9
PPG-TF 267	4.0	4.7	6.3	6.3	5.7	5.0	6.3	6.3	6.3	5.7	5.9
PPG-TF 313	4.0	4.3	6.3	6.0	5.3	5.3	6.3	6.7	7.0	5.7	5.9
PPG-TF 338	4.3	4.3	7.0	6.7	5.3	5.0	5.3	6.3	7.0	6.3	5.9
PST-5E6	4.7	4.7	7.0	7.0	5.3	5.0	5.7	6.0	6.7	5.7	5.9
PST-5GLBS	4.7	5.0	6.3	7.0	5.0	5.3	5.7	6.0	6.7	6.0	5.9
PST-5MCMO	4.0	4.7	6.7	6.3	5.0	6.0	5.7	6.3	7.0	5.3	5.9
RAD-TF105	4.0	5.0	6.3	6.3	5.7	5.3	6.0	6.0	6.7	6.0	5.9
SE53D2	4.0	5.0	7.0	6.3	5.7	5.3	6.0	6.0	6.7	5.3	5.9
SETF104	4.3	5.0	6.0	6.3	5.7	6.0	6.3	6.3	6.0	5.3	5.9
3B2	4.0	4.7	6.0	5.7	5.7	5.7	6.0	6.3	6.3	5.7	5.8
DLFPS-321/3696	4.7	4.7	6.3	6.0	6.0	5.3	6.3	6.0	6.0	5.3	5.8
DLFPS-321/3699	4.0	4.3	6.3	6.3	5.3	5.7	6.0	6.0	6.3	5.7	5.8
DLFPS-321/3707	3.7	4.7	6.0	6.0	5.0	5.0	6.0	7.0	7.0	5.7	5.8
DLFPS-321/3708	4.0	4.3	6.3	6.3	5.0	5.7	6.0	6.7	6.7	5.0	5.8
DLFPS-TF/3550	4.3	4.7	6.3	6.3	5.0	5.0	5.7	6.3	7.0	6.0	5.8
FAYETTE	4.0	4.7	6.0	6.3	5.3	5.3	6.3	5.7	6.3	6.0	5.8
JT 233	3.3	4.3	6.3	6.0	5.3	6.0	6.0	6.0	6.3	5.7	5.8
K18-ROE	4.0	4.7	6.3	6.0	5.0	5.3	6.0	6.7	6.3	5.7	5.8
PADRE 2	4.3	4.3	5.7	6.3	5.0	5.7	6.0	6.7	6.7	6.0	5.8
PPG-TF 257	4.3	4.7	6.3	6.0	5.0	5.3	5.7	6.0	7.0	6.3	5.8

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LEXINGTON, KY 1/
2019 DATA

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

NAME	SEEDLING	QUALITY RATINGS									
	VIGOR	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
PPG-TF 315	3.3	4.0	6.7	6.0	5.3	5.7	6.0	6.3	6.7	5.7	5.8
PRO GOLD	4.3	5.0	7.0	7.0	5.0	5.3	5.3	6.0	6.3	5.0	5.8
PST-5BYOB	4.7	5.0	7.0	6.7	5.3	5.3	5.7	5.7	6.3	5.3	5.8
PST-5GQ	3.3	4.3	6.7	6.0	5.7	5.7	5.7	6.3	6.7	5.0	5.8
SETFM3	4.0	4.7	6.0	6.0	5.0	5.7	6.0	6.0	7.0	6.0	5.8
TF445	4.0	4.3	6.7	6.3	5.0	6.0	5.7	6.7	6.3	5.3	5.8
3N1	3.7	4.7	6.3	6.0	5.3	5.3	6.3	6.7	6.0	5.0	5.7
5LSS	4.0	4.7	5.7	6.0	5.3	5.7	5.7	6.0	6.7	5.7	5.7
ATF2116	3.7	4.7	6.3	6.3	5.0	5.3	5.3	6.0	6.3	5.7	5.7
BANDIT	3.7	4.3	6.3	6.3	5.3	5.3	5.7	6.0	6.3	5.3	5.7
BAR TF 134	3.0	4.0	6.0	5.7	5.0	5.7	6.0	6.7	6.7	5.7	5.7
BULLSEYE	4.0	4.7	6.3	6.3	5.0	5.0	6.0	6.0	6.7	5.7	5.7
COPIOUS TF	4.0	5.0	6.7	6.0	5.3	5.0	5.7	5.7	6.7	5.7	5.7
ESCALADE	4.3	5.0	6.7	6.3	5.0	5.3	5.7	6.0	6.3	5.0	5.7
GO-RH20	4.7	4.7	6.3	6.0	5.3	4.7	5.7	6.3	6.7	5.3	5.7
JT 517	3.3	4.3	6.0	6.0	5.0	5.3	6.0	6.3	6.7	6.0	5.7
LBF	4.3	4.7	6.7	6.0	4.7	5.7	5.7	6.0	6.3	6.0	5.7
NAI-FQZ-17	4.0	4.3	6.3	6.0	5.0	5.3	5.7	6.3	6.3	5.7	5.7
PARAMOUNT	3.7	4.3	6.0	6.0	5.3	5.3	5.7	6.0	6.7	6.3	5.7
PPG-TF 308	4.0	4.3	6.3	6.0	6.0	5.3	5.3	5.7	6.7	5.7	5.7
PST-5THM	4.0	5.0	6.7	6.3	4.7	5.0	6.0	5.7	6.7	5.7	5.7
PST-5TRN	3.7	4.0	6.0	6.0	5.7	5.7	5.7	6.7	6.3	5.0	5.7
RAD-TF131	4.0	5.0	6.3	5.7	5.0	4.7	6.0	6.0	6.7	6.0	5.7
SE5STAR	3.7	4.7	6.7	6.3	5.3	5.0	5.7	5.7	6.3	5.3	5.7
TURBO SS	4.3	4.7	6.0	6.0	5.0	4.7	5.7	6.3	6.7	6.0	5.7
A-TF31	3.7	4.7	6.0	5.7	5.0	5.3	6.0	6.0	6.3	5.3	5.6
AST8118LM	3.3	4.3	5.7	5.3	5.0	5.0	5.7	5.7	7.3	6.3	5.6
AST8218LM	3.7	4.0	5.7	6.3	5.0	5.0	6.0	5.7	6.7	5.7	5.6
BAR FA 8228	3.7	4.7	6.3	6.3	5.0	5.3	5.3	5.3	6.3	5.3	5.6
BAR-FA8230	3.7	4.3	6.7	6.3	4.7	5.7	6.0	5.7	6.0	5.0	5.6
BIRMINGHAM	4.7	5.0	5.7	6.3	5.0	5.0	5.7	6.0	6.3	5.7	5.6
GRAND PRIX (FC15-01P)	3.0	4.0	5.3	6.0	5.0	5.7	5.3	6.3	6.7	6.0	5.6
PALOMAR	4.0	4.3	6.0	6.3	4.7	5.7	5.3	5.3	7.0	5.7	5.6
PST-5DC24	4.0	4.0	6.0	6.0	5.0	5.0	6.0	5.7	6.7	5.7	5.6
PST-5DZM	3.7	5.0	6.3	5.7	5.0	5.0	5.7	6.0	6.3	5.7	5.6
SETFM2	4.0	4.7	6.7	6.3	5.3	4.7	5.0	5.7	6.3	5.3	5.6
TANGO	3.7	4.7	6.0	6.0	5.0	5.0	5.7	5.7	6.7	5.7	5.6
OG-WALK	3.3	4.0	6.0	6.0	5.3	5.0	5.7	5.7	6.3	5.3	5.5
PST-5SQB	3.7	4.3	5.7	6.0	5.0	5.0	5.7	6.0	6.3	5.3	5.5
BAR 9FE MAS	4.3	4.3	6.0	5.3	5.0	4.7	5.7	6.0	6.3	5.7	5.4
PST-5MINK	2.7	4.0	5.3	6.0	5.0	5.3	5.0	5.3	6.3	5.7	5.3
KENTUCKY-31	4.7	4.7	5.3	5.0	3.7	3.3	3.7	4.3	4.7	5.0	4.4
LSD VALUE	1.3	2.0	1.3	1.5	1.3	1.0	1.0	0.9	2.3	1.6	0.4
C.V. (%)	14.6	12.7	8.5	8.3	9.3	9.2	8.1	7.9	9.5	9.6	3.6

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

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

TABLE 11.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT COLLEGE PARK, MD 1/
2019 DATA

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

NAME	QUALITY RATINGS			MEAN
	AUG	SEP	OCT	
PPG-TF 336	6.0	7.0	7.7	6.9
PPG-TF 306	5.7	7.0	7.0	6.6
TD2	5.3	6.3	7.7	6.4
BONFIRE (JS DTT)	5.3	6.7	7.0	6.3
PPG-TF 262	5.7	6.3	7.0	6.3
PPG-TF 312	5.3	6.7	7.0	6.3
PPG-TF 313	5.3	6.7	7.0	6.3
ZRC1	5.7	6.0	7.3	6.3
DLFPS-321/3699	5.7	6.3	6.7	6.2
PPG-TF 316	5.3	6.3	7.0	6.2
RC4	5.3	6.0	7.3	6.2
RDC	5.3	6.3	7.0	6.2
TF445	5.0	6.3	7.3	6.2
DLFPS-321/3707	5.0	6.3	7.0	6.1
K18-WB1	5.3	6.3	6.7	6.1
NAI-ST5	5.3	6.3	6.7	6.1
PPG-TF 254	5.3	6.3	6.7	6.1
AH2	5.7	6.0	6.3	6.0
BY-TF-169	5.0	6.0	7.0	6.0
COL-TF-148	5.0	6.0	7.0	6.0
DLFPS-321/3705	5.0	6.0	7.0	6.0
K18-RS6	5.3	6.3	6.3	6.0
OKEEFE (LTP-TF-122)	5.3	6.0	6.7	6.0
PPG-TF 267	5.3	6.0	6.7	6.0
PPG-TF 308	5.3	6.3	6.3	6.0
PPG-TF 318	5.3	6.0	6.7	6.0
BAR TF 134	5.7	5.7	6.3	5.9
DLFPS-321/3693	5.0	6.0	6.7	5.9
GRANDE 3	5.0	6.0	6.7	5.9
DEGAS (LTP-TF-111)	5.0	6.0	6.7	5.9
PPG-TF 255	5.0	5.7	7.0	5.9
PPG-TF 315	5.0	6.0	6.7	5.9
RH3	5.0	6.0	6.7	5.9
RHL2	5.0	6.0	6.7	5.9
TF456	4.7	5.7	7.3	5.9
3B2	5.0	6.0	6.3	5.8
DLFPS-321/3679	4.7	6.0	6.7	5.8
DLFPS-321/3706	5.0	6.0	6.3	5.8
PADRE 2	4.7	5.7	7.0	5.8
PPG-TF 338	4.7	5.7	7.0	5.8
PST-5THM	4.7	6.0	6.7	5.8
PST-5TRN	4.7	6.0	6.7	5.8
RH1	5.0	6.0	6.3	5.8
GLX ACED (PST-5DART)	5.0	5.7	6.3	5.7
PPG-TF 231	5.0	5.7	6.3	5.7

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT COLLEGE PARK, MD 1/
2019 DATA

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

NAME	QUALITY RATINGS			MEAN
	AUG	SEP	OCT	
PPG-TF 249	4.7	5.7	6.7	5.7
PPG-TF 320	4.7	5.7	6.7	5.7
PPG-TF 323	4.7	5.7	6.7	5.7
PPG-TF 337	5.0	5.7	6.3	5.7
PST-5MCMO	5.0	5.7	6.3	5.7
SE5STAR	4.7	6.0	6.3	5.7
3N1	4.7	5.7	6.3	5.6
AH1	4.7	5.7	6.3	5.6
DLFPS-TF/3550	4.7	5.3	6.7	5.6
DLFPS-TF/3553	5.0	5.3	6.3	5.6
NT-3	4.3	5.7	6.7	5.6
PST-5DZM	4.7	5.7	6.3	5.6
HEMI	4.7	5.7	6.0	5.4
JT 268	4.7	5.7	6.0	5.4
K18-NSE	4.3	5.7	6.3	5.4
LIFEGUARD	4.3	5.7	6.3	5.4
PPG-TF 238	4.7	5.7	6.0	5.4
PPG-TF 244	4.3	5.7	6.3	5.4
RAPTOR III	4.7	5.7	6.0	5.4
SESCR1	4.3	5.3	6.7	5.4
DLFPS-321/3701	4.7	5.3	6.0	5.3
DLFPS-321/3708	4.3	5.7	6.0	5.3
DRAGSTER	4.0	5.3	6.7	5.3
FIREHAWK SLT	4.7	5.7	5.7	5.3
GO-RH20	4.0	5.3	6.7	5.3
PARAMOUNT	4.7	5.0	6.3	5.3
PPG-TF 257	4.3	5.3	6.3	5.3
PPG-TF 305	4.3	5.0	6.7	5.3
PST-5BYOB	4.7	5.3	6.0	5.3
BULLSEYE LTZ	4.0	5.3	6.3	5.2
DLFPS-321/3696	4.3	5.3	6.0	5.2
DLFPS-321/3703	4.3	5.3	6.0	5.2
NAI-ROS4	4.7	5.3	5.7	5.2
PST-5E6	4.3	5.3	6.0	5.2
PST-5SQB	4.7	5.3	5.7	5.2
RHF	4.3	5.0	6.3	5.2
ATF2116	4.3	5.3	5.7	5.1
BAR FA 8228	4.3	5.3	5.7	5.1
DLFPS-TF/3552	4.0	5.0	6.3	5.1
JT 233	4.7	5.0	5.7	5.1
PRO GOLD	4.3	5.3	5.7	5.1
PST-5GLBS	4.0	5.3	6.0	5.1
PST-5GQ	4.3	5.3	5.7	5.1
RAD-TF105	4.3	5.3	5.7	5.1
TMT1	4.3	5.3	5.7	5.1

TABLE 11. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) IN THE 2018 NATIONAL TALL FESCUE TEST AT COLLEGE PARK, MD 1/
2019 DATA

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

NAME	QUALITY RATINGS			MEAN
	AUG	SEP	OCT	
5LSS	4.0	5.0	6.0	5.0
ATF1768	4.3	4.7	6.0	5.0
BRAVO 2	4.3	5.0	5.7	5.0
BULLSEYE	4.3	5.3	5.3	5.0
DLFPS-321/3695	4.0	5.3	5.7	5.0
DLFPS-321/3702	4.0	5.3	5.7	5.0
ESTRENA	4.0	5.3	5.7	5.0
NAI-3N2	4.0	5.3	5.7	5.0
SE53D2	4.3	5.3	5.3	5.0
SETF104	4.3	5.0	5.7	5.0
TANGO	4.0	5.0	6.0	5.0
FAYETTE	4.3	5.0	5.3	4.9
K18-ROE	3.7	5.3	5.7	4.9
RS1	3.7	5.0	6.0	4.9
GO-AOMK	3.7	5.0	5.7	4.8
NATURALLY GREEN	4.0	5.0	5.0	4.7
SETFM2	3.7	5.0	5.3	4.7
SETFM3	4.0	4.7	5.3	4.7
BAR-FA8230	4.3	4.7	4.7	4.6
NAI-TUE	4.0	4.3	5.3	4.6
PST-5DC24	4.0	4.7	5.0	4.6
DLFPS-321/3694	3.7	4.7	5.0	4.4
MOONDANCE GLX	4.0	4.3	5.0	4.4
NAI-FQZ-17	4.0	4.7	4.7	4.4
BIRMINGHAM	3.7	4.7	4.7	4.3
RAD-TF131	3.7	4.7	4.7	4.3
A-TF31	3.3	4.3	5.0	4.2
AST8118LM	3.3	4.3	5.0	4.2
GRAND PRIX (FC15-01P)	3.7	4.3	4.7	4.2
JT 517	3.3	4.3	5.0	4.2
LBF	3.3	4.3	5.0	4.2
PST-5MINK	4.0	4.3	4.3	4.2
BAR 9FE MAS	3.3	4.7	4.3	4.1
AST8218LM	3.3	4.3	4.3	4.0
COPIOUS TF	3.3	3.7	5.0	4.0
BANDIT	3.3	4.0	4.3	3.9
BGR-TF3	3.0	4.3	4.3	3.9
ESCALADE	3.3	4.0	4.0	3.8
PALOMAR	3.0	4.0	4.0	3.7
TURBO SS	3.0	3.7	4.3	3.7
OG-WALK	3.0	3.7	4.0	3.6
KENTUCKY-31	2.0	3.0	3.0	2.7
LSD VALUE	1.2	1.1	1.2	1.0
C.V. (%)	15.2	12.4	11.9	11.5

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 12.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST AT EAST LANSING, MI 1/
 2019 DATA

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

NAME	LEAF TEXTURE	FALL DENSITY	PERCENT ESTABLISHMENT	QUALITY RATINGS					MEAN	
				MAY	JUN	JUL	AUG	SEP		OCT
RH1	4.7	8.0	95.0	6.3	7.7	7.7	7.3	7.7	7.3	7.3
RS1	5.7	8.0	93.3	6.3	7.3	7.3	7.0	7.7	7.0	7.1
DLFPS-321/3705	4.7	8.0	91.7	5.3	7.3	7.3	7.3	7.3	7.3	7.0
BY-TF-169	5.7	7.3	93.3	5.7	7.3	7.3	7.3	7.3	6.3	6.9
NAI-ST5	5.0	8.0	91.3	5.0	7.3	7.7	7.3	7.3	7.0	6.9
3B2	4.3	7.3	91.3	5.3	7.3	7.3	7.7	6.7	6.3	6.8
5LSS	6.0	8.0	91.7	5.0	7.0	7.0	7.0	7.3	7.3	6.8
BIRMINGHAM	5.3	7.7	92.3	5.7	7.0	7.7	7.0	7.0	6.7	6.8
K18-WB1	5.7	7.7	94.0	6.0	7.0	6.7	7.3	7.0	7.0	6.8
NAI-ROS4	5.0	7.3	91.0	5.0	7.0	7.0	7.3	7.3	7.0	6.8
PPG-TF 306	5.0	7.7	90.3	5.3	7.3	7.3	7.3	7.0	6.7	6.8
RHL2	5.0	7.3	94.7	5.7	7.0	7.0	7.0	7.3	6.7	6.8
3N1	5.3	7.7	88.3	5.7	7.0	7.0	7.3	6.7	6.3	6.7
AH2	5.0	7.3	93.0	5.7	7.0	7.0	7.3	6.7	6.3	6.7
ATF1768	5.0	7.3	91.7	5.3	7.3	7.3	7.0	7.0	6.3	6.7
BRAVO 2	4.7	7.3	92.0	5.3	7.0	7.0	7.3	7.0	6.3	6.7
DLFPS-321/3694	5.0	7.3	94.3	5.7	7.3	6.7	6.7	7.0	6.7	6.7
DLFPS-321/3699	5.3	7.3	93.3	5.3	7.3	7.3	7.0	6.7	6.3	6.7
GO-RH20	5.0	7.3	90.0	5.3	7.0	7.3	7.3	7.0	6.3	6.7
GRANDE 3	5.3	7.3	91.7	5.7	7.0	7.0	7.0	7.0	6.7	6.7
PPG-TF 255	5.7	7.7	94.3	5.3	7.3	7.3	7.0	6.7	6.7	6.7
PST-5MINK	5.3	7.3	90.0	5.7	7.3	7.7	7.0	6.7	6.0	6.7
SESCR1	5.3	8.0	91.7	5.0	7.7	7.0	7.0	7.0	6.3	6.7
TF456	5.3	7.7	89.3	5.0	7.3	7.0	7.0	7.0	7.0	6.7
TMT1	5.0	7.7	93.0	5.3	7.0	7.0	7.0	7.3	6.7	6.7
ATF2116	4.7	7.3	90.0	5.0	7.3	7.3	7.0	6.7	6.3	6.6
BONFIRE (JS DTT)	5.3	8.0	90.7	5.3	7.3	6.7	6.7	6.7	6.7	6.6
LIFEGUARD	5.3	7.3	91.0	5.3	7.3	7.0	7.0	6.7	6.3	6.6
MOONDANCE GLX	4.7	7.3	92.0	6.0	7.3	7.3	6.7	6.3	6.0	6.6
NAI-FQZ-17	4.7	7.7	89.0	5.0	7.0	7.3	7.0	6.7	6.3	6.6
PST-5SQB	5.3	7.0	96.3	6.3	7.0	7.0	7.0	6.3	6.0	6.6
RHF	5.3	7.7	91.7	5.7	6.7	7.0	6.7	7.0	6.3	6.6
SE5STAR	4.7	7.0	92.0	5.0	7.3	7.0	7.0	7.0	6.0	6.6
ZRC1	5.7	7.7	90.3	5.3	6.7	6.7	7.3	6.7	6.7	6.6
BGR-TF3	5.3	7.7	94.0	5.3	7.0	6.7	7.0	7.0	6.0	6.5
FAYETTE	5.0	7.3	91.7	5.7	7.0	7.0	6.7	6.3	6.3	6.5
FIREHAWK SLT	5.0	7.7	91.7	5.0	7.0	6.7	7.0	6.7	6.7	6.5
K18-RS6	5.0	7.3	90.0	5.3	7.3	7.0	6.7	6.0	6.7	6.5
PADRE 2	5.3	7.0	89.3	5.0	7.0	7.0	7.0	6.7	6.3	6.5
PPG-TF 238	5.0	8.0	92.3	5.3	7.0	7.0	7.0	6.7	6.0	6.5
PST-5BYOB	5.0	7.0	89.3	5.3	7.0	6.7	7.0	6.3	6.7	6.5
PST-5GLBS	4.7	7.0	91.7	5.3	7.0	6.7	6.7	7.0	6.3	6.5
BAR-FA8230	5.0	6.7	88.0	5.3	7.0	6.7	6.7	6.7	6.0	6.4
DLFPS-321/3679	5.3	7.3	91.7	5.3	6.7	7.3	6.7	6.7	5.7	6.4
DLFPS-321/3693	5.7	7.0	93.3	5.3	7.0	6.7	7.0	6.3	6.0	6.4

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT EAST LANSING, MI 1/
2019 DATA

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

NAME	LEAF TEXTURE	FALL DENSITY	PERCENT ESTABLISHMENT	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
ESTRENA	5.7	7.0	90.0	5.0	7.0	6.7	6.7	6.7	6.3	6.4
HEMI	5.0	7.3	93.0	5.3	7.0	6.7	7.0	6.3	6.0	6.4
OG-WALK	4.7	7.0	90.7	5.0	7.0	7.0	7.0	6.7	6.0	6.4
PPG-TF 267	5.7	6.7	92.0	5.0	7.0	7.0	7.0	6.3	6.3	6.4
PPG-TF 320	5.3	7.3	90.7	4.7	6.7	7.0	7.0	6.7	6.3	6.4
PPG-TF 323	5.0	7.7	91.3	5.0	7.0	6.7	7.0	6.7	6.3	6.4
PPG-TF 337	6.3	8.0	90.0	5.3	7.0	6.7	6.7	6.7	6.3	6.4
PST-5THM	4.7	7.3	90.7	5.3	6.7	7.0	7.0	6.0	6.3	6.4
RH3	6.0	7.0	92.3	5.0	7.0	6.7	6.7	7.0	6.0	6.4
TD2	6.0	7.3	91.0	5.0	6.7	6.7	7.0	6.7	6.7	6.4
AH1	6.3	7.7	93.3	5.0	7.0	6.7	6.7	6.3	6.3	6.3
AST8118LM	5.0	7.3	88.3	5.0	7.0	6.7	6.7	6.3	6.0	6.3
BAR TF 134	5.3	7.0	89.3	5.0	6.7	6.7	6.3	7.0	6.3	6.3
BULLSEYE LTZ	5.3	7.3	91.0	5.0	7.3	6.3	6.3	6.3	6.3	6.3
DLFPS-321/3696	5.7	7.0	89.3	5.0	7.3	6.7	6.7	6.0	6.0	6.3
DLFPS-321/3701	5.3	7.3	90.0	5.3	7.0	6.7	6.7	6.3	6.0	6.3
DLFPS-321/3703	5.7	7.3	89.0	5.0	7.0	6.7	6.7	6.3	6.0	6.3
K18-NSE	5.7	7.7	89.0	5.3	7.0	6.3	6.3	6.3	6.7	6.3
NAI-TUE	5.0	7.3	90.7	5.0	7.0	6.7	7.0	6.0	6.0	6.3
NT-3	5.3	7.7	90.0	4.7	6.7	6.7	6.7	6.7	6.3	6.3
PARAMOUNT	5.3	7.7	90.7	4.7	7.0	6.7	6.7	6.7	6.0	6.3
PPG-TF 244	4.7	7.7	93.0	5.3	6.7	6.3	6.3	6.7	6.7	6.3
PPG-TF 254	5.0	7.3	89.7	5.0	7.3	6.7	6.7	6.3	6.0	6.3
PPG-TF 262	5.0	7.3	87.3	4.7	7.0	7.0	7.0	6.3	6.0	6.3
RAPTOR III	4.7	7.0	90.7	5.0	7.0	7.0	6.7	6.3	5.7	6.3
SE53D2	5.0	7.0	89.0	4.7	7.0	6.7	6.7	7.0	6.0	6.3
A-TF31	5.7	7.3	90.0	4.7	7.0	6.7	6.7	6.3	6.0	6.2
BANDIT	5.0	7.3	91.0	5.0	6.3	6.3	6.3	6.3	6.7	6.2
DLFPS-321/3695	5.0	7.7	90.0	5.3	7.0	6.3	6.7	5.7	6.0	6.2
DLFPS-321/3702	6.0	7.3	90.0	5.0	7.0	6.3	7.0	6.0	5.7	6.2
DLFPS-321/3706	5.0	7.0	90.7	5.3	7.0	6.3	6.0	6.3	6.3	6.2
DLFPS-TF/3550	5.0	7.3	92.0	5.0	6.7	6.3	6.7	6.3	6.3	6.2
GO-AOMK	5.3	7.3	90.7	4.7	6.0	6.7	7.0	7.0	6.0	6.2
GRAND PRIX (FC15-01P)	5.0	7.0	88.3	4.7	6.3	6.7	7.0	6.7	5.7	6.2
OKEEFE (LTP-TF-122)	5.3	7.7	90.3	5.3	6.7	6.3	6.7	6.0	6.0	6.2
PALOMAR	4.0	6.7	90.7	5.3	6.7	6.7	7.0	6.0	5.7	6.2
PPG-TF 305	5.7	7.3	89.3	4.7	7.0	6.3	6.7	6.3	6.0	6.2
PPG-TF 308	5.0	7.7	90.7	5.3	7.0	6.7	6.3	6.3	5.7	6.2
PPG-TF 312	5.7	7.7	91.0	5.0	7.0	6.0	6.3	6.7	6.0	6.2
PPG-TF 313	5.7	7.0	90.0	5.0	7.0	6.3	6.3	6.3	6.0	6.2
PPG-TF 315	5.3	7.3	89.3	5.0	7.0	6.3	6.7	6.0	6.0	6.2
PPG-TF 318	5.3	7.0	91.7	4.7	6.7	6.7	6.7	6.0	6.3	6.2
PRO GOLD	5.7	7.0	93.3	5.3	6.7	6.7	6.7	6.0	5.7	6.2
PST-5DZM	5.3	7.7	90.0	5.7	6.7	6.7	6.7	6.0	5.3	6.2
PST-5E6	4.3	7.3	91.3	5.0	6.7	6.3	7.0	6.3	6.0	6.2

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT EAST LANSING, MI 1/
2019 DATA

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

NAME	TURFGRASS QUALITY			RATINGS							MEAN
	LEAF TEXTURE	FALL DENSITY	PERCENT ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT		
PST-5TRN	4.7	7.3	92.7	5.3	6.7	6.0	6.7	6.7	6.0	6.2	
RC4	5.3	7.7	90.0	4.7	6.7	6.7	6.7	6.3	6.0	6.2	
RDC	6.0	8.0	90.0	5.0	6.3	6.0	6.7	6.7	6.7	6.2	
TF445	4.7	7.7	91.7	5.0	6.7	6.3	6.7	6.7	6.0	6.2	
BAR 9FE MAS	5.3	7.0	90.7	5.3	6.7	5.7	6.7	6.3	6.0	6.1	
BULLSEYE	4.7	6.7	89.7	5.3	6.7	6.3	6.3	6.0	6.0	6.1	
ESCALADE	4.7	7.0	90.0	5.3	6.7	6.0	6.7	6.0	6.0	6.1	
GLX ACED (PST-5DART)	5.0	7.0	90.7	5.0	7.0	6.3	6.3	6.3	5.7	6.1	
JT 233	5.0	7.3	89.0	5.0	6.7	6.7	6.3	6.0	5.7	6.1	
JT 268	5.7	7.3	89.3	4.7	6.7	6.7	6.7	6.0	6.0	6.1	
K18-ROE	5.0	7.3	90.0	5.0	6.7	6.3	6.7	5.7	6.0	6.1	
DEGAS (LTP-TF-111)	5.0	7.3	90.0	4.7	6.3	6.7	6.3	6.3	6.0	6.1	
PPG-TF 231	5.3	7.7	91.3	5.3	6.3	6.0	6.7	6.0	6.3	6.1	
PPG-TF 257	5.0	7.3	92.3	4.7	6.3	6.3	7.0	6.3	5.7	6.1	
PPG-TF 336	5.3	7.3	88.3	5.3	6.7	6.0	6.7	6.0	6.0	6.1	
COL-TF-148	5.0	7.3	90.7	4.7	6.3	6.3	7.0	6.0	5.7	6.0	
DLFPS-321/3707	5.0	7.7	91.7	5.0	7.0	6.0	6.0	6.0	6.0	6.0	
NAI-3N2	4.7	7.3	91.0	5.0	6.3	6.3	6.0	6.3	6.0	6.0	
DLFPS-TF/3552	5.3	7.0	90.7	4.7	6.7	6.0	6.7	5.7	6.0	5.9	
LBF	5.7	7.0	92.7	5.0	6.7	6.3	6.3	5.3	5.7	5.9	
PPG-TF 249	5.7	7.3	91.7	4.7	6.7	6.0	6.0	6.3	6.0	5.9	
PPG-TF 316	5.0	7.3	90.3	4.7	6.7	5.7	6.3	6.0	6.0	5.9	
PPG-TF 338	5.7	7.7	87.3	5.0	6.7	6.0	6.0	6.0	6.0	5.9	
PST-5DC24	5.0	7.3	90.0	4.3	6.3	6.3	6.3	6.0	6.0	5.9	
TANGO	5.3	7.0	87.0	4.7	6.3	6.3	6.3	6.0	6.0	5.9	
AST8218LM	4.3	7.0	90.7	4.3	6.3	6.0	6.3	6.0	6.0	5.8	
BAR FA 8228	4.3	7.0	90.0	5.0	6.3	6.0	6.7	5.7	5.3	5.8	
DLFPS-TF/3553	5.7	7.3	86.0	4.3	6.0	6.0	6.3	6.3	5.7	5.8	
DRAGSTER	5.3	7.3	87.0	4.3	6.7	6.3	6.3	5.7	5.7	5.8	
JT 517	5.0	6.7	90.0	4.3	6.3	6.3	6.0	6.0	5.7	5.8	
PST-5GQ	4.7	7.0	91.7	4.7	6.3	6.0	6.3	5.7	5.7	5.8	
RAD-TF105	5.3	7.0	88.3	4.3	6.3	6.0	6.7	5.7	5.7	5.8	
SETFM3	5.0	7.7	87.0	4.7	6.3	6.0	6.0	6.0	6.0	5.8	
TURBO SS	5.0	7.3	90.7	4.3	6.7	5.7	6.3	6.0	6.0	5.8	
DLFPS-321/3708	5.3	7.0	89.3	4.7	6.7	6.0	6.0	5.3	5.3	5.7	
NATURALLY GREEN	5.3	7.0	88.7	5.0	6.3	5.7	5.7	5.7	5.7	5.7	
PST-5MCMO	5.3	7.3	89.3	4.7	6.3	5.7	6.0	5.7	5.7	5.7	
RAD-TF131	5.3	7.3	90.3	4.3	6.3	6.0	6.3	5.3	6.0	5.7	
SETF104	5.0	7.3	86.7	5.0	6.3	5.7	6.0	5.7	5.3	5.7	
COPIOUS TF	5.0	7.0	89.0	4.0	6.0	6.0	6.0	6.0	5.7	5.6	
KENTUCKY-31	2.0	6.0	90.7	5.7	5.7	6.7	7.0	4.7	4.0	5.6	
SETFM2	5.0	6.7	88.7	4.3	6.3	5.3	6.3	5.3	5.7	5.6	
LSD VALUE	0.9	1.4	19.0	3.2	3.5	3.9	2.7	2.7	2.7	3.1	
C.V. (%)	9.9	6.8	3.7	14.2	9.7	12.8	9.6	12.7	11.8	9.8	

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

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

TABLE 13.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST AT COLUMBIA, MO 1/
 2019 DATA

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

NAME	PERCENT GROUND COVER SPRING	BROWN PATCH	QUALITY RATINGS							MEAN
			APR	MAY	JUN	JUL	AUG	SEP		
PPG-TF 255	85.0	7.3	6.3	6.7	7.0	7.0	6.7	6.7	6.7	6.7
ZRC1	81.7	8.7	5.7	5.7	7.0	6.3	7.0	7.3	6.5	6.5
BONFIRE (JS DTT)	86.7	7.0	6.3	5.7	6.3	6.3	6.3	6.7	6.3	6.3
JT 268	86.7	7.3	6.0	6.3	6.3	6.3	6.3	6.7	6.3	6.3
K18-RS6	85.0	8.3	6.0	6.0	7.0	6.0	6.3	6.7	6.3	6.3
RH3	83.3	7.0	5.7	6.3	6.0	6.7	6.7	6.3	6.3	6.3
RS1	83.3	6.7	6.0	6.3	6.3	6.3	6.3	6.7	6.3	6.3
AH1	88.3	7.0	5.7	6.0	6.0	6.3	6.3	7.0	6.2	6.2
AH2	85.0	8.0	5.7	5.7	6.7	6.7	6.3	6.3	6.2	6.2
TMT1	83.3	8.7	5.3	6.3	7.0	6.7	6.0	6.0	6.2	6.2
SETF104	83.3	6.7	6.0	5.7	5.7	6.3	6.0	6.7	6.1	6.1
PPG-TF 315	81.7	6.3	5.3	6.3	6.0	6.0	6.3	6.0	6.0	6.0
COL-TF-148	80.0	7.7	5.0	5.7	6.3	6.0	6.3	6.3	5.9	5.9
PADRE 2	76.7	9.0	5.3	5.7	6.0	6.3	6.3	6.0	5.9	5.9
PPG-TF 244	81.7	8.0	5.7	5.7	6.0	6.3	6.0	6.0	5.9	5.9
PPG-TF 262	75.0	7.7	5.3	5.7	6.0	6.0	6.3	6.3	5.9	5.9
PPG-TF 313	78.3	6.3	5.3	6.0	6.0	5.7	6.0	6.3	5.9	5.9
BRAVO 2	81.7	6.7	5.3	6.0	5.3	6.0	6.0	6.0	5.8	5.8
DLFPS-321/3701	76.7	8.3	5.0	5.7	5.7	6.0	6.0	6.3	5.8	5.8
DLFPS-321/3705	75.0	8.7	5.0	5.7	6.0	6.0	6.0	6.0	5.8	5.8
ESTRENA	80.0	7.3	5.3	5.7	6.0	6.0	6.0	6.0	5.8	5.8
K18-ROE	83.3	6.0	5.7	6.0	5.0	6.0	6.0	6.0	5.8	5.8
PARAMOUNT	76.7	7.7	5.0	5.7	6.0	6.0	6.0	6.0	5.8	5.8
PRO GOLD	76.7	7.7	5.3	6.3	6.0	5.7	6.0	5.7	5.8	5.8
RHF	81.7	7.3	5.0	5.7	5.7	6.0	6.0	6.3	5.8	5.8
BY-TF-169	78.3	7.3	5.3	5.3	5.3	5.3	6.3	6.3	5.7	5.7
DLFPS-321/3699	80.0	7.7	5.0	5.3	6.3	5.7	5.7	6.0	5.7	5.7
DLFPS-321/3702	81.7	7.7	5.0	5.7	6.0	5.7	6.0	6.0	5.7	5.7
DLFPS-321/3703	76.7	7.3	5.3	5.3	5.3	6.0	6.0	6.0	5.7	5.7
GO-RH20	83.3	7.7	5.3	5.7	5.0	6.0	6.0	6.3	5.7	5.7
JT 233	78.3	6.0	5.3	5.7	5.7	5.7	6.0	5.7	5.7	5.7
NAI-3N2	80.0	7.0	5.3	5.3	5.7	5.7	6.0	6.0	5.7	5.7
PPG-TF 254	53.0	7.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PPG-TF 338	73.3	8.3	5.0	5.7	6.0	6.0	6.0	5.7	5.7	5.7
PST-5GLBS	80.0	8.0	5.3	5.3	5.7	6.0	6.0	6.0	5.7	5.7
PST-5TRN	78.3	8.0	5.0	5.7	5.7	6.0	6.0	6.0	5.7	5.7
RAPTOR III	78.3	7.3	5.3	5.7	5.7	5.7	5.7	6.0	5.7	5.7
RDC	83.3	8.3	5.3	5.0	5.7	6.0	6.0	6.3	5.7	5.7
TD2	81.7	7.3	5.3	5.0	5.3	6.0	6.0	6.3	5.7	5.7
DLFPS-321/3694	80.0	6.7	5.7	6.0	5.3	5.3	5.7	5.7	5.6	5.6
DRAGSTER	73.3	7.3	4.3	5.3	5.7	6.0	6.0	6.0	5.6	5.6
FAYETTE	83.3	7.0	5.7	5.7	5.7	5.7	5.3	5.3	5.6	5.6
GRANDE 3	76.7	7.7	5.0	5.0	5.0	6.0	6.3	6.0	5.6	5.6
PPG-TF 249	75.0	6.7	5.3	6.0	5.3	5.7	5.3	5.7	5.6	5.6
PPG-TF 308	71.7	9.0	5.3	5.0	5.7	5.7	5.7	6.3	5.6	5.6

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT COLUMBIA, MO 1/
2019 DATA

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

NAME	PERCENT GROUND COVER SPRING	BROWN PATCH	QUALITY RATINGS							MEAN
			APR	MAY	JUN	JUL	AUG	SEP		
PPG-TF 320	75.0	6.3	5.0	5.7	5.3	6.0	5.7	6.0	5.6	
RH1	86.7	6.7	5.7	5.3	5.3	5.7	5.7	5.7	5.6	
TF456	85.0	6.3	5.3	5.0	5.7	5.3	6.0	6.3	5.6	
BAR TF 134	71.7	7.7	5.0	5.3	5.7	5.7	5.7	5.7	5.5	
JT 517	76.7	7.0	5.3	5.3	5.3	5.3	6.0	5.7	5.5	
K18-NSE	81.7	8.3	4.7	5.0	5.3	5.7	6.0	6.3	5.5	
NAI-ROS4	76.7	6.3	5.0	5.3	5.3	5.7	6.0	5.7	5.5	
PPG-TF 231	80.0	7.7	5.3	5.3	5.7	5.7	5.7	5.3	5.5	
3B2	78.3	7.7	5.3	6.0	5.3	5.3	5.3	5.3	5.4	
ATF1768	78.3	7.0	5.0	5.7	5.3	6.0	5.3	5.3	5.4	
BANDIT	83.3	6.0	5.7	5.3	5.0	5.0	5.7	5.7	5.4	
BAR 9FE MAS	71.7	7.0	5.0	5.7	5.3	5.3	5.7	5.3	5.4	
BIRMINGHAM	81.7	6.7	5.3	5.3	5.7	5.7	5.3	5.3	5.4	
BULLSEYE LTZ	81.7	6.7	5.7	5.0	5.0	5.3	6.0	5.7	5.4	
DLFPS-321/3679	71.7	6.7	4.7	5.3	5.3	5.7	5.7	5.7	5.4	
DLFPS-321/3695	73.3	7.7	5.0	5.3	5.7	5.3	5.0	6.0	5.4	
DLFPS-321/3696	81.7	6.3	5.0	5.7	5.3	5.3	5.7	5.7	5.4	
HEMI	81.7	7.0	5.3	5.3	5.3	5.7	5.7	5.3	5.4	
K18-WB1	80.0	6.7	5.7	5.3	5.3	5.0	5.3	6.0	5.4	
LIFEGUARD	81.7	7.7	5.0	5.3	5.3	5.3	5.7	5.7	5.4	
MOONDANCE GLX	81.7	8.3	5.3	5.3	5.3	5.3	5.7	5.7	5.4	
NAI-TUE	78.3	7.3	5.3	5.3	5.3	5.3	5.7	5.7	5.4	
PPG-TF 267	78.3	7.3	5.3	5.3	5.0	5.3	5.7	6.0	5.4	
PPG-TF 305	78.3	6.7	5.3	5.3	5.3	5.3	5.3	6.0	5.4	
PPG-TF 312	78.3	7.7	5.3	5.0	5.3	5.3	5.7	6.0	5.4	
SESCR1	76.7	6.3	5.7	5.7	5.0	5.3	5.3	5.7	5.4	
DLFPS-321/3693	75.0	7.7	5.3	5.7	5.3	5.3	5.0	5.3	5.3	
DLFPS-TF/3550	75.0	7.7	5.0	5.0	5.0	5.7	5.7	5.3	5.3	
LBF	80.0	7.7	5.0	5.3	5.7	5.3	5.3	5.3	5.3	
NATURALLY GREEN	81.7	6.0	5.7	5.7	5.3	5.3	5.0	4.7	5.3	
PALOMAR	85.0	6.7	5.7	5.7	5.3	5.0	5.3	5.0	5.3	
PPG-TF 238	71.7	7.3	5.0	5.3	5.3	5.3	5.3	5.3	5.3	
PST-5E6	76.7	7.0	5.0	5.3	5.3	5.3	5.3	5.7	5.3	
RHL2	76.7	7.7	5.0	5.0	5.3	5.0	5.3	6.0	5.3	
BAR-FA8230	81.7	6.0	5.3	5.7	4.7	5.0	5.3	5.3	5.2	
COPIOUS TF	80.0	5.3	5.3	5.3	4.7	5.0	5.0	5.7	5.2	
DLFPS-321/3706	80.0	7.0	5.0	5.0	4.7	5.3	5.7	5.7	5.2	
DLFPS-TF/3552	70.0	8.0	4.7	4.7	5.7	5.0	5.7	5.7	5.2	
FIREHAWK SLT	76.7	7.3	5.0	5.3	5.0	5.0	5.3	5.7	5.2	
NAI-ST5	76.7	6.7	5.0	5.0	4.7	5.0	5.7	6.0	5.2	
PPG-TF 306	76.7	7.0	5.0	5.0	5.3	5.3	5.3	5.3	5.2	
PPG-TF 336	76.7	6.3	5.0	5.0	5.0	5.3	5.3	5.7	5.2	
PST-5BYOB	78.3	6.3	5.0	5.0	4.7	5.3	5.7	5.7	5.2	
PST-5DZM	70.0	6.7	4.7	5.3	5.0	5.3	5.3	5.3	5.2	
PST-5SQB	73.3	7.3	5.0	5.0	5.0	5.3	5.3	5.3	5.2	

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT COLUMBIA, MO 1/
2019 DATA

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

NAME	PERCENT GROWN		BROWN PATCH	QUALITY RATINGS						MEAN
	COVER	SPRING		APR	MAY	JUN	JUL	AUG	SEP	
PST-5THM	76.7		7.0	5.0	5.0	5.0	5.0	5.7	5.7	5.2
TF445	83.3		6.3	5.0	5.0	5.0	5.3	5.3	5.3	5.2
TURBO SS	75.0		6.0	5.0	5.3	5.0	5.3	5.0	5.3	5.2
BAR FA 8228	75.0		5.3	4.7	5.3	4.7	5.3	5.3	5.0	5.1
BULLSEYE	80.0		6.3	5.0	5.0	5.0	5.0	5.3	5.3	5.1
DLFPS-TF/3553	71.7		7.7	4.7	5.0	5.3	5.0	5.0	5.3	5.1
GRAND PRIX (FC15-01P)	78.3		5.3	5.0	5.7	4.7	5.0	5.0	5.0	5.1
OKEEFE (LTP-TF-122)	71.7		9.0	4.7	5.3	5.0	5.3	5.3	5.0	5.1
PPG-TF 316	75.0		6.7	4.7	4.7	4.7	5.3	5.3	6.0	5.1
PPG-TF 323	73.3		7.0	5.0	5.0	4.7	5.0	5.3	5.7	5.1
PST-5GQ	70.0		7.0	4.7	5.0	5.3	5.0	5.0	5.3	5.1
RAD-TF105	75.0		6.3	4.7	5.3	4.7	4.7	5.3	5.7	5.1
RAD-TF131	73.3		5.7	4.7	5.3	5.0	5.3	4.7	5.3	5.1
3N1	68.3		6.7	4.7	5.0	4.7	5.0	5.3	5.3	5.0
A-TF31	76.7		5.7	5.0	5.7	5.0	4.7	4.7	5.0	5.0
AST8118LM	71.7		5.7	4.7	5.3	5.0	5.0	5.0	5.0	5.0
DLFPS-321/3707	78.3		7.7	5.3	5.0	5.0	4.7	4.3	5.0	4.9
SE53D2	71.7		7.7	4.7	5.0	4.7	5.3	5.0	5.0	4.9
SE5STAR	75.0		6.3	5.0	5.7	4.0	4.7	5.0	5.0	4.9
TANGO	76.7		5.3	5.0	5.0	4.3	5.0	5.3	5.0	4.9
AST8218LM	76.7		6.3	5.0	4.3	4.3	4.7	5.3	5.0	4.8
GLX ACED (PST-5DART)	76.7		6.7	5.0	5.0	5.0	5.0	4.3	4.3	4.8
KENTUCKY-31	91.7		8.0	5.0	5.0	5.0	4.7	4.7	4.3	4.8
NAI-FQZ-17	73.3		5.0	5.0	5.0	4.0	5.0	5.0	5.0	4.8
PPG-TF 318	70.0		7.0	4.7	5.0	4.7	4.7	4.7	5.0	4.8
PPG-TF 337	70.0		6.0	4.7	5.0	4.3	4.7	5.0	5.0	4.8
PST-5MCMO	71.7		6.3	4.7	4.7	4.7	4.7	5.0	5.0	4.8
5LSS	70.0		6.3	4.3	5.0	4.3	4.3	5.0	5.0	4.7
BGR-TF3	73.3		5.3	5.0	5.0	4.3	4.7	4.7	4.7	4.7
DLFPS-321/3708	63.3		7.3	4.3	5.0	4.7	4.7	4.7	5.0	4.7
DEGAS (LTP-TF-111)	70.0		7.3	4.3	5.0	4.3	4.7	5.0	4.7	4.7
NT-3	65.0		7.3	4.7	4.7	4.7	4.7	4.7	5.0	4.7
OG-WALK	83.3		5.3	5.3	4.7	4.0	4.7	4.7	4.7	4.7
PST-5DC24	73.3		5.0	4.7	5.0	4.3	4.7	5.0	4.7	4.7
SETFM2	78.3		6.7	5.0	4.7	4.0	4.7	4.7	5.0	4.7
ESCALADE	73.3		6.7	4.7	4.3	4.3	4.7	5.0	4.7	4.6
RC4	68.3		7.3	4.7	4.3	4.3	4.7	4.7	5.0	4.6
SETFM3	71.7		6.7	4.3	4.7	4.7	4.7	4.3	4.7	4.6
ATF2116	70.0		7.0	4.3	4.3	4.3	4.3	4.3	4.7	4.4
GO-AOMK	63.3		7.0	3.7	4.3	4.0	4.7	4.3	4.3	4.2
PPG-TF 257	63.3		7.0	4.3	4.0	3.7	4.0	4.0	4.7	4.1
PST-5MINK	63.3		7.3	4.0	3.7	4.0	4.0	4.0	4.0	3.9
LSD VALUE	26.6		2.9	2.7	5.0	2.9	3.5	3.0	2.6	2.8
C.V. (%)	11.4		16.8	13.9	17.1	19.0	17.3	16.5	16.0	14.7

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 14.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT MISS. ST., MS 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	WINTER COLOR	PERCENT ESTABLISH -MENT	QUALITY RATINGS												MEAN
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TD2	5.0	5.7	7.0	6.0	51.7	6	6.0	6	6.3	7.0	6.0	3.7	3.3	2.7	4.0	5.0	4.7	5.1
DLFPS-321/3708	5.0	5.3	6.7	5.0	40.0	6	6.0	6	6.0	6.0	6.3	3.3	3.3	2.7	4.0	5.3	5.3	5.0
PPG-TF 305	5.0	5.3	7.0	5.7	45.0	6	6.0	6	6.0	6.3	6.0	2.7	3.0	3.0	4.0	5.7	5.7	5.0
AH1	5.0	5.3	6.7	6.0	63.3	6	6.0	6	6.0	6.7	6.0	3.3	3.0	3.0	3.3	5.0	4.7	4.9
AH2	4.7	5.7	6.3	6.0	43.3	6	6.0	6	6.0	6.3	6.3	3.3	3.0	2.3	3.3	5.0	4.7	4.9
BAR TF 134	4.7	5.3	6.3	6.0	26.7	6	6.0	6	6.0	6.3	6.3	3.3	3.3	2.7	3.3	4.7	4.3	4.9
DLFPS-321/3707	5.0	5.3	6.7	6.0	43.3	6	6.0	6	6.0	6.3	6.0	3.0	3.0	2.3	3.7	5.3	4.7	4.9
BONFIRE (JS DTT)	5.0	4.7	7.0	6.0	58.3	6	6.0	6	6.3	6.7	6.0	3.3	2.7	2.3	3.7	5.0	5.0	4.9
NT-3	4.7	5.0	6.3	5.3	35.0	6	6.0	6	6.0	6.0	6.3	3.7	3.0	2.7	3.7	4.7	4.7	4.9
PPG-TF 244	4.7	4.7	7.0	6.0	38.3	6	6.0	6	6.0	6.7	6.0	3.0	3.0	2.7	3.7	5.3	5.0	4.9
BAR-FA8230	4.3	4.3	6.3	6.0	31.7	6	6.0	6	6.0	6.7	6.0	2.7	2.7	2.7	3.7	4.7	4.0	4.8
COL-TF-148	5.0	5.0	6.7	6.0	31.7	6	6.0	6	6.0	6.3	6.0	3.0	2.7	2.3	3.3	5.0	4.3	4.8
DLFPS-321/3702	5.0	5.0	6.3	6.0	31.7	6	6.0	6	6.0	6.0	6.3	3.3	3.0	2.3	3.3	4.7	5.0	4.8
DLFPS-TF/3550	5.0	4.3	6.0	6.0	35.0	6	6.0	6	6.0	6.0	6.3	2.7	2.7	2.7	3.3	4.7	4.7	4.8
DLFPS-TF/3552	5.3	5.0	6.0	6.0	31.7	6	6.0	6	6.0	6.0	6.0	2.7	3.0	2.7	3.7	5.0	5.0	4.8
DLFPS-TF/3553	5.0	5.7	6.0	6.0	40.0	6	6.0	6	6.0	6.0	6.0	2.7	3.0	2.7	3.3	4.7	4.7	4.8
GRANDE 3	5.0	4.3	6.7	6.7	43.3	6	6.3	6	6.3	6.7	6.0	3.3	2.7	2.3	3.3	4.7	4.3	4.8
K18-RS6	5.0	5.3	6.7	5.7	50.0	6	6.0	6	6.0	6.3	6.0	3.0	3.0	2.3	3.7	4.7	4.7	4.8
DEGAS (LTP-TF-111)	4.3	5.0	6.7	6.0	38.3	6	6.0	6	6.0	6.7	6.0	3.0	2.7	2.7	3.3	4.7	5.0	4.8
PADRE 2	4.7	5.0	6.7	6.0	33.3	6	6.0	6	6.3	6.3	6.0	3.0	2.7	2.0	3.0	5.0	4.7	4.8
PPG-TF 255	5.0	5.0	6.7	5.7	43.3	6	6.0	6	6.0	6.3	6.0	3.3	2.3	2.7	3.3	4.3	4.7	4.8
PPG-TF 262	5.0	4.3	6.7	6.0	43.3	6	6.0	6	6.3	6.7	6.0	3.3	3.0	2.3	3.3	5.0	3.7	4.8
PPG-TF 308	5.0	5.3	6.7	6.0	45.0	6	6.0	6	6.0	6.7	6.0	3.7	2.3	2.3	3.3	4.7	4.7	4.8
PPG-TF 316	4.7	5.3	7.0	5.7	46.7	6	6.0	6	6.0	6.3	6.3	3.0	2.7	2.7	3.3	4.7	4.3	4.8
PPG-TF 337	5.0	5.0	7.0	6.0	41.7	6	6.0	6	6.0	6.3	6.0	3.0	3.0	2.0	3.3	5.0	4.7	4.8
PPG-TF 338	5.0	5.0	7.0	6.0	46.7	6	6.0	6	6.0	7.0	6.3	3.0	3.0	2.0	3.3	4.3	4.3	4.8
RDC	4.7	4.7	6.7	5.3	48.3	6	6.0	6	6.7	6.3	6.0	3.3	2.3	2.3	3.0	4.7	4.3	4.8
RH1	5.0	5.0	7.0	6.0	53.3	6	6.0	6	6.0	6.3	6.0	3.0	3.0	2.3	3.3	4.3	4.7	4.8
5LSS	4.3	5.7	6.7	5.7	45.0	6	6.0	6	6.0	6.7	6.0	3.0	2.7	2.0	3.0	4.7	4.7	4.7
ATF2116	4.3	4.3	6.7	5.7	41.7	6	6.0	6	6.0	6.7	6.0	2.7	2.3	2.3	3.3	4.3	4.3	4.7
BY-TF-169	4.7	5.0	6.3	6.0	30.0	6	6.0	6	6.0	6.3	6.0	3.0	3.0	2.0	3.0	4.7	4.3	4.7
DLFPS-321/3693	5.0	5.0	7.0	6.0	38.3	6	6.0	6	6.0	6.3	6.0	3.0	3.0	2.3	3.0	4.7	4.0	4.7
DLFPS-321/3699	4.7	5.0	6.7	6.0	38.3	6	6.0	6	6.3	6.0	6.0	3.0	2.7	2.0	3.0	4.7	4.3	4.7
DLFPS-321/3701	5.0	5.0	6.7	6.0	35.0	6	6.0	6	6.0	6.3	6.3	3.3	2.7	2.0	3.0	4.7	4.3	4.7
JT 268	5.3	5.3	6.7	6.0	35.0	6	6.0	6	6.0	6.7	6.3	3.0	2.7	2.3	3.0	4.3	4.0	4.7
K18-NSE	4.7	5.7	7.0	6.0	38.3	6	6.0	6	6.3	6.7	6.0	3.0	3.0	1.7	3.0	4.3	4.3	4.7
NAI-ROS4	4.7	4.3	6.7	6.0	38.3	6	6.0	6	6.0	6.0	6.0	3.0	2.3	2.3	3.0	5.0	5.0	4.7
NAI-ST5	5.0	4.7	6.7	6.0	41.7	6	6.0	6	6.0	6.3	6.0	3.0	2.3	2.7	3.3	5.0	4.0	4.7
PPG-TF 267	4.7	5.0	6.0	6.0	45.0	6	6.0	6	6.0	6.0	6.0	3.0	3.0	2.3	3.0	4.7	4.0	4.7
PPG-TF 306	5.0	5.0	6.3	6.0	33.3	6	6.0	6	6.0	6.3	6.0	3.7	2.7	1.7	3.3	4.3	4.7	4.7
PPG-TF 313	5.0	5.3	7.0	6.0	40.0	6	6.0	6	6.3	6.7	6.3	3.3	2.3	2.0	3.0	4.3	4.0	4.7
PPG-TF 315	4.7	5.3	7.0	6.0	40.0	6	6.0	6	6.0	6.7	6.0	3.3	2.7	2.0	3.0	4.7	4.3	4.7
PST-5E6	4.3	4.3	6.3	6.0	36.7	6	6.0	6	6.0	6.3	6.0	3.0	2.7	2.3	3.0	4.7	4.3	4.7
PST-5GLBS	5.0	4.3	7.0	6.0	51.7	6	6.0	6	6.3	6.3	6.0	3.0	2.7	2.3	3.0	4.7	4.3	4.7
RAPTOR III	5.0	4.7	6.3	6.0	40.0	6	6.0	6	6.0	6.7	6.0	3.0	2.3	2.3	3.0	4.7	4.3	4.7

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT MISS. ST., MS 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	WINTER COLOR	PERCENT ESTABLISH -MENT	QUALITY RATINGS												MEAN
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
RC4	5.0	5.0	7.0	6.0	36.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.7	3.3	4.7	4.7	4.7
RHL2	5.0	5.0	6.7	6.0	45.0	6	6.0	6.0	6.3	6.3	6.3	3.0	2.7	2.0	3.0	4.7	3.7	4.7
RS1	4.7	5.0	6.7	6.0	46.7	6	6.0	6.0	6.0	6.0	6.0	3.3	2.7	2.3	3.3	4.3	4.3	4.7
SETF104	5.0	4.7	6.7	6.0	43.3	6	6.0	6.0	6.3	6.7	6.0	3.0	2.0	2.3	3.3	4.7	4.0	4.7
TF445	5.0	4.3	6.7	6.0	41.7	6	6.0	6.0	6.0	6.7	6.0	3.0	2.7	2.3	3.3	4.0	4.0	4.7
TF456	5.0	4.7	6.7	6.0	38.3	6	6.0	6.0	6.0	6.3	6.0	3.3	2.3	2.0	3.3	4.7	4.3	4.7
BAR FA 8228	5.0	4.0	6.0	5.7	26.7	6	6.0	6.0	6.0	6.3	6.0	3.0	2.0	2.3	3.3	4.3	4.3	4.6
DLFPS-321/3679	4.3	4.7	6.3	6.0	50.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.7	2.3	3.3	4.0	4.3	4.6
DLFPS-321/3696	5.0	4.3	6.7	6.0	38.3	6	6.0	6.0	6.0	6.3	6.3	3.0	2.7	1.7	2.7	4.0	4.0	4.6
DLFPS-321/3705	5.0	4.7	6.0	6.0	38.3	6	6.0	6.0	6.0	6.0	6.0	3.0	3.0	2.0	3.0	4.7	4.0	4.6
DLFPS-321/3706	5.0	4.7	7.0	6.0	43.3	6	6.0	6.0	6.0	6.3	6.0	3.3	2.3	2.0	3.0	4.7	4.0	4.6
DRAGSTER	4.7	4.0	6.3	6.0	33.3	6	6.0	6.0	6.0	6.0	6.0	3.3	2.7	2.7	3.3	3.7	4.0	4.6
GLX ACED (PST-5DART)	4.7	4.7	6.7	6.0	41.7	6	6.0	6.0	6.0	6.3	6.0	3.0	2.3	1.7	3.0	4.3	4.3	4.6
GO-RH20	4.7	5.0	6.0	5.7	40.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.0	2.7	3.0	4.3	4.0	4.6
HEMI	5.0	4.7	6.0	5.7	41.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.0	2.3	3.0	4.3	4.0	4.6
JT 233	5.3	5.3	6.3	5.7	36.7	6	6.0	6.0	6.0	6.0	6.0	3.3	3.0	1.7	3.0	4.0	3.7	4.6
K18-ROE	4.7	4.3	6.3	6.0	35.0	6	6.0	6.0	6.0	6.3	6.0	3.3	2.7	2.0	2.3	4.0	4.0	4.6
K18-WB1	5.0	5.0	6.7	6.0	48.3	6	6.0	6.0	6.3	6.3	6.0	2.7	2.7	2.0	3.3	4.0	4.0	4.6
MOONDANCE GLX	4.0	4.3	6.7	6.0	35.0	6	6.0	6.0	6.0	6.0	6.0	3.3	2.7	2.0	2.7	4.0	4.3	4.6
NAI-3N2	4.7	4.3	6.7	6.0	43.3	6	6.0	6.0	6.0	6.7	6.0	3.0	3.0	2.0	2.7	3.7	4.0	4.6
PPG-TF 238	5.0	4.7	6.0	6.0	50.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.0	3.3	4.3	4.3	4.6
PPG-TF 254	5.0	4.7	6.7	5.7	46.7	6	6.0	6.0	6.0	6.0	6.0	2.7	2.3	2.3	3.0	4.3	4.0	4.6
PPG-TF 257	5.0	4.7	6.3	6.0	43.3	6	6.0	6.0	6.0	6.3	6.0	3.0	2.7	2.0	3.0	3.7	4.0	4.6
PPG-TF 320	4.3	5.3	6.7	6.0	40.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.3	3.3	4.3	4.0	4.6
PPG-TF 323	5.3	4.3	6.3	6.0	31.7	6	6.0	6.0	6.0	5.7	6.0	3.0	2.3	2.3	3.3	4.3	4.7	4.6
PST-5GQ	4.7	4.3	6.0	6.0	36.7	6	6.0	6.0	5.7	6.0	6.0	2.7	2.3	2.0	3.0	5.0	4.3	4.6
PST-5MCMO	5.0	4.3	6.0	6.0	31.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.7	2.3	3.3	4.3	4.0	4.6
PST-5THM	4.7	4.3	6.3	6.0	43.3	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.3	3.0	4.0	4.7	4.6
RHF	4.7	5.3	7.0	6.0	43.3	6	6.0	6.0	6.0	6.3	6.0	2.7	2.3	2.0	3.0	4.3	4.0	4.6
ZRC1	5.0	5.0	6.7	6.0	36.7	6	6.0	6.0	6.0	6.3	6.0	3.0	2.3	2.0	2.7	4.0	4.3	4.6
3B2	4.7	5.3	6.7	6.0	36.7	6	6.0	6.0	6.0	6.0	6.0	3.7	2.3	2.3	2.7	3.7	3.7	4.5
BANDIT	5.0	4.7	6.0	6.0	41.7	6	6.0	6.0	6.0	6.3	6.0	3.0	2.0	2.0	2.7	4.0	3.7	4.5
BULLSEYE LTZ	5.3	4.7	6.3	6.0	40.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.0	3.0	3.7	4.0	4.5
FIREHAWK SLT	5.0	5.0	6.0	6.0	26.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.0	2.7	4.0	4.0	4.5
GO-AOMK	5.0	4.7	6.0	5.3	25.0	6	5.7	5.7	5.7	6.0	6.0	3.0	2.7	2.0	3.0	4.3	4.0	4.5
OKEEFE (LTP-TF-122)	5.0	4.3	6.3	6.0	35.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.7	3.0	3.7	3.7	4.5
NAI-TUE	5.0	4.0	6.3	5.3	43.3	6	6.0	6.0	6.0	6.7	6.3	3.0	2.3	1.7	2.7	4.0	3.7	4.5
PARAMOUNT	5.0	5.0	6.7	6.0	33.3	6	6.0	6.0	6.0	6.3	6.0	3.3	2.3	2.3	2.7	4.0	3.3	4.5
PPG-TF 249	5.3	4.0	6.7	6.0	50.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.7	2.7	4.0	3.7	4.5
PPG-TF 336	5.0	4.0	6.7	6.0	48.3	6	6.0	6.0	6.0	6.7	6.3	3.3	2.0	2.0	2.7	4.0	3.3	4.5
PRO GOLD	4.3	4.3	6.3	6.0	41.7	6	6.0	6.0	6.0	6.3	6.0	2.7	2.0	2.0	2.7	4.0	4.0	4.5
PST-5DC24	4.7	5.3	6.0	5.7	43.3	6	6.0	6.0	5.3	6.0	6.0	3.0	2.7	2.0	2.7	4.3	4.3	4.5
PST-5TRN	5.0	5.0	6.3	6.0	35.0	6	6.0	6.0	6.0	6.0	5.7	3.0	2.0	2.0	3.0	4.0	4.0	4.5
SE53D2	4.0	5.0	6.3	6.0	41.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.0	2.3	3.3	3.7	4.0	4.5
TMT1	5.0	4.3	7.0	6.0	61.7	6	6.0	6.0	6.3	7.0	6.0	3.0	2.3	2.0	2.0	3.7	3.3	4.5

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT MISS. ST., MS 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	WINTER COLOR	PERCENT ESTABLISH -MENT	QUALITY RATINGS												MEAN
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
3N1	5.0	4.7	6.0	6.0	31.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.7	1.7	2.7	3.3	3.7	4.4
ATF1768	4.7	4.3	6.3	5.7	45.0	6	6.0	6.0	6.0	6.3	6.0	2.3	2.3	1.7	2.7	4.0	4.0	4.4
BULLSEYE	4.7	4.3	7.0	6.0	38.3	6	6.0	6.0	6.0	6.3	6.0	3.3	2.3	1.7	2.3	3.3	3.7	4.4
COPIOUS TF	4.3	5.0	6.0	5.7	46.7	6	6.0	6.0	6.0	6.0	5.7	3.3	2.0	2.0	2.3	3.7	3.7	4.4
DLFPS-321/3695	5.0	5.0	6.7	6.0	43.3	6	6.0	6.0	6.0	6.3	6.0	3.0	2.3	1.7	2.3	3.3	4.0	4.4
DLFPS-321/3703	4.7	5.3	6.3	6.0	35.0	6	6.0	6.0	6.0	6.3	6.0	3.0	2.0	1.7	2.7	3.7	3.3	4.4
FAYETTE	5.0	5.0	6.3	6.0	35.0	6	6.0	6.0	6.0	6.0	6.0	3.0	2.0	2.0	3.0	3.7	3.7	4.4
GRAND PRIX (FC15-01P)	4.7	4.0	6.0	6.0	33.3	6	6.0	6.0	6.0	6.0	6.0	2.7	2.3	2.0	2.3	3.7	3.3	4.4
JT 517	5.0	4.7	6.3	6.0	40.0	6	6.0	6.0	6.3	6.3	6.0	2.7	2.7	1.3	2.7	4.0	3.3	4.4
LBF	5.3	5.0	5.7	5.7	50.0	6	6.0	6.0	6.0	6.3	5.7	2.7	2.0	1.7	3.0	3.7	4.3	4.4
NATURALLY GREEN	4.7	4.3	5.7	6.0	53.3	6	6.0	6.0	6.0	6.3	6.0	2.7	2.0	2.0	2.7	3.3	3.7	4.4
PALOMAR	4.7	4.0	6.3	6.0	35.0	6	6.0	6.0	6.0	6.3	6.0	3.0	2.0	2.0	2.3	3.3	3.7	4.4
PPG-TF 312	5.0	4.7	6.7	6.0	35.0	6	6.0	6.0	6.3	6.3	6.0	3.3	2.0	1.7	2.3	3.0	3.3	4.4
PPG-TF 318	5.3	4.0	6.7	6.0	50.0	6	6.0	6.0	6.0	6.7	6.3	3.0	2.0	2.0	2.7	3.0	3.0	4.4
PST-5BYOB	4.7	4.3	6.0	6.0	43.3	6	6.0	6.0	6.0	6.0	6.0	3.0	2.3	2.0	2.7	3.7	3.3	4.4
PST-5MINK	4.7	4.3	6.0	6.0	31.7	6	5.7	5.7	5.7	5.7	6.0	3.0	2.7	2.0	2.7	4.0	4.0	4.4
PST-5SQE	5.0	4.3	6.7	6.0	31.7	6	6.0	6.0	6.0	6.3	6.0	3.0	2.7	1.7	2.3	3.7	3.7	4.4
RAD-TF105	5.0	4.3	7.0	5.3	48.3	6	6.0	6.0	6.0	6.3	6.0	2.3	2.0	1.7	3.0	3.7	3.7	4.4
RAD-TF131	5.3	5.0	6.7	5.0	30.0	6	6.0	6.0	6.0	6.3	6.0	2.0	2.3	1.7	2.7	4.3	4.0	4.4
RH3	5.0	4.7	7.0	5.3	36.7	6	6.0	6.0	6.0	6.3	6.0	3.0	2.3	1.7	2.7	3.7	3.3	4.4
SE5STAR	5.0	4.3	6.3	5.7	50.0	6	6.0	6.0	6.0	6.3	6.0	2.7	2.7	1.7	2.7	4.0	3.0	4.4
SESCR1	5.3	4.7	6.7	6.0	48.3	6	6.0	6.0	6.3	6.7	6.0	3.7	1.7	1.7	2.7	3.0	3.3	4.4
SETFM2	5.0	4.7	6.3	5.7	33.3	6	6.0	6.0	6.0	6.3	6.0	2.3	2.3	1.3	2.7	4.0	4.0	4.4
TURBO SS	6.0	4.7	5.3	5.3	31.7	6	6.0	6.0	5.7	6.0	5.7	2.3	2.3	2.0	3.0	3.7	3.7	4.4
AST8218LM	5.0	4.7	6.0	5.7	38.3	6	6.0	6.0	5.7	6.3	6.0	2.3	2.0	1.3	2.3	3.7	3.7	4.3
BGR-TF3	4.7	4.0	6.3	5.7	56.7	6	6.0	6.0	6.0	6.3	6.0	2.7	2.3	1.7	2.3	3.0	3.3	4.3
DLFPS-321/3694	4.7	4.0	6.7	6.0	45.0	6	6.3	6.0	6.0	6.3	6.0	3.0	1.7	2.0	2.3	3.0	3.0	4.3
ESCALADE	5.0	4.3	6.0	6.0	36.7	6	6.0	6.0	6.0	6.3	5.7	3.0	2.3	1.7	2.0	3.0	3.3	4.3
LIFEGUARD	5.0	4.3	7.0	6.0	51.7	6	6.0	6.0	6.0	7.0	6.0	2.7	2.0	1.7	2.7	3.0	3.0	4.3
NAI-FQZ-17	5.3	4.0	6.3	5.3	28.3	6	6.0	6.0	6.0	6.0	6.0	3.0	2.0	1.7	2.3	3.0	3.3	4.3
OG-WALK	5.3	4.0	6.3	5.7	38.3	6	6.0	6.0	6.0	6.0	6.0	3.0	1.7	2.0	2.3	3.0	3.3	4.3
PST-5DZM	4.7	4.7	6.3	5.3	30.0	6	6.0	6.0	6.0	6.0	6.0	2.3	2.3	1.7	2.3	3.3	3.7	4.3
SETFM3	4.3	4.3	6.0	6.0	36.7	6	6.0	6.0	6.0	6.0	6.0	2.3	2.0	1.7	2.3	3.7	3.7	4.3
TANGO	5.0	4.0	6.0	5.7	38.3	6	6.0	6.0	6.0	6.3	6.0	2.3	2.0	1.7	2.7	3.7	3.3	4.3
BAR 9FE MAS	5.3	4.0	6.0	6.0	41.7	6	6.0	6.0	6.0	6.3	6.0	2.7	1.7	1.3	2.0	3.0	3.0	4.2
BRAVO 2	5.0	4.3	7.0	5.0	43.3	6	6.0	6.0	6.3	6.7	6.0	2.7	2.0	1.3	2.0	2.3	3.0	4.2
PPG-TF 231	5.3	4.3	7.0	6.0	45.0	6	6.0	6.0	6.0	6.0	6.0	2.7	2.0	1.7	2.0	3.0	2.7	4.2
A-TF31	5.3	5.3	5.7	6.0	33.3	6	6.0	6.0	5.7	6.0	5.7	2.7	2.3	1.0	2.3	3.0	3.0	4.1
AST8118LM	5.7	4.3	6.0	5.7	48.3	6	6.0	6.0	6.0	6.3	6.0	3.0	2.0	1.0	2.0	2.7	2.7	4.1
BIRMINGHAM	5.0	4.7	6.0	5.7	45.0	6	6.0	6.0	6.0	6.0	6.0	2.3	2.0	2.0	2.0	2.7	2.7	4.1
ESTRENA	4.7	4.3	6.7	6.0	51.7	6	6.0	6.0	6.0	6.0	6.0	3.0	2.0	1.7	2.0	2.3	2.3	4.1
KENTUCKY-31	3.0	3.0	5.0	5.7	61.7	5	5.3	5.3	5.7	5.0	5.0	2.3	2.3	1.7	2.7	3.0	3.3	3.9
LSD VALUE	1.0	1.2	0.9	0.6	18.5	0	0.3	0.2	0.9	1.4	0.6	1.4	1.5	1.2	1.0	1.4	1.4	0.4
C.V. (%)	9.2	12.5	7.2	4.9	22.4	0	1.9	1.5	4.3	7.3	3.9	16.0	22.3	25.2	18.1	18.2	17.5	4.9

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

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

TABLE 15.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT RALEIGH, NC 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS									MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
DLFPS-321/3705	7.0	6.3	5.3	3.3	4.3	5.7	6.7	5.7	6.0	6.3	5.3	6.7	5.6
GO-RH20	7.0	6.7	5.7	3.7	4.7	5.0	6.3	6.3	6.3	6.0	5.3	6.7	5.6
RH1	7.0	6.7	5.7	3.7	4.7	5.3	5.7	6.0	6.0	6.3	5.7	6.7	5.6
NAI-3N2	7.0	7.3	6.0	4.0	5.3	6.3	7.0	5.7	5.7	5.3	4.3	4.7	5.4
PPG-TF 244	7.0	7.0	6.0	3.7	5.0	5.3	6.3	5.7	5.7	5.7	5.3	6.3	5.4
PPG-TF 306	7.0	6.7	6.3	3.3	4.7	5.7	6.7	5.7	6.3	5.7	4.7	5.7	5.4
TF445	7.0	7.3	6.0	3.7	5.3	5.7	6.3	5.3	5.7	5.7	5.0	6.0	5.4
BULLSEYE LTZ	7.3	7.0	6.0	3.7	4.3	6.0	7.0	6.3	6.0	5.7	4.0	5.0	5.3
PPG-TF 338	7.0	6.0	5.7	3.0	3.3	5.3	6.3	6.0	6.0	6.3	5.3	5.7	5.3
PST-5TRN	6.3	6.3	6.0	3.0	4.0	5.3	6.0	5.7	6.0	5.7	6.0	6.3	5.3
RHF	6.7	6.7	6.0	3.3	4.0	5.0	6.0	5.7	5.7	5.7	5.7	6.7	5.3
SESCR1	6.7	7.0	6.3	3.3	4.7	5.0	6.0	5.3	5.0	5.3	6.0	7.0	5.3
BIRMINGHAM	7.0	7.7	6.3	4.0	5.7	6.0	6.3	6.0	5.3	4.7	4.0	4.7	5.2
BY-TF-169	6.7	7.0	6.0	3.3	5.0	5.7	6.7	5.7	5.3	5.3	4.7	5.3	5.2
PPG-TF 316	7.0	6.3	6.0	3.0	3.0	4.0	5.7	5.7	6.3	6.7	6.0	6.7	5.2
BRAVO 2	6.7	6.0	5.7	3.3	4.0	5.0	5.7	5.3	5.3	5.7	5.3	6.3	5.1
NAI-ROS4	6.7	6.7	6.0	3.7	4.3	5.3	5.7	5.7	5.7	5.3	5.0	5.7	5.1
NAI-ST5	6.7	6.3	6.3	3.3	4.0	4.3	5.0	5.0	5.3	6.0	6.0	7.0	5.1
NAI-TUE	7.3	6.0	6.0	3.3	4.7	5.3	6.0	5.3	5.3	5.3	5.0	6.0	5.1
PPG-TF 267	6.7	6.3	6.3	3.3	4.3	4.7	5.0	5.3	5.3	5.7	5.7	6.3	5.1
TF456	7.0	6.3	6.0	3.0	4.7	5.7	6.3	5.3	5.3	5.3	4.7	5.7	5.1
ATF2116	7.3	7.0	5.3	3.3	5.3	5.3	5.3	5.3	5.0	5.3	4.7	5.3	5.0
JT 233	7.0	6.7	6.3	3.3	4.0	5.0	6.0	5.3	5.3	5.3	5.0	5.7	5.0
TD2	6.7	6.7	6.3	3.3	4.7	5.3	6.0	5.7	5.7	5.0	4.0	5.3	5.0
3N1	6.7	6.3	6.3	2.7	3.7	4.3	5.0	5.3	5.3	5.7	5.7	6.3	4.9
DLFPS-321/3699	7.0	6.7	6.0	3.3	4.7	5.7	6.0	5.3	5.0	5.0	4.3	5.0	4.9
DRAGSTER	6.7	6.3	6.0	3.7	4.3	5.0	6.0	5.3	5.0	5.0	4.3	5.3	4.9
DEGAS (LTP-TF-111)	7.0	6.3	6.0	3.0	4.0	5.0	6.0	5.7	5.3	5.0	4.7	5.0	4.9
PADRE 2	6.7	6.3	6.0	3.7	5.0	4.7	4.7	5.0	5.3	5.3	5.0	5.7	4.9
PPG-TF 238	7.0	5.7	6.3	3.0	3.7	4.3	5.7	5.3	5.3	5.7	5.3	6.0	4.9
PST-5E6	6.3	6.7	5.7	3.3	4.3	4.7	5.0	5.0	5.0	5.0	5.3	6.3	4.9
RH3	7.0	6.0	5.7	3.0	4.3	4.7	5.7	5.7	5.7	5.0	4.3	5.3	4.9
AH2	7.0	6.3	6.7	3.0	3.7	4.3	4.7	4.7	5.0	5.3	5.7	6.7	4.8
K18-ROE	7.0	6.3	6.0	3.7	5.0	4.3	5.0	4.7	5.0	5.3	4.7	5.3	4.8
PST-5GLBS	6.0	6.0	6.0	3.3	4.0	4.0	4.7	4.7	5.0	4.7	6.0	7.0	4.8
ZRC1	6.7	6.3	6.0	3.0	4.0	4.7	4.7	5.3	5.7	5.3	5.0	5.7	4.8
3B2	7.0	6.3	5.3	3.3	4.0	4.3	5.3	5.3	5.3	5.0	4.7	4.7	4.7
GLX ACED (PST-5DART)	6.7	6.0	5.7	3.0	3.3	4.0	5.0	4.7	5.7	5.7	5.3	6.0	4.7
NT-3	7.3	5.7	5.7	2.7	3.7	4.7	5.3	5.0	5.0	5.3	5.0	6.0	4.7
PPG-TF 318	6.7	6.0	6.0	3.3	3.7	4.3	5.0	5.0	5.3	5.7	4.7	5.7	4.7
PPG-TF 320	6.0	5.7	6.3	3.0	3.7	3.7	4.7	4.7	5.0	5.0	5.7	6.7	4.7
PPG-TF 323	7.0	6.3	5.7	3.0	3.3	4.3	5.3	5.0	5.0	5.3	4.7	6.0	4.7
PST-5MCMO	6.0	6.0	6.0	3.0	3.3	3.7	4.3	5.0	5.3	5.0	5.7	6.7	4.7
PST-5SQB	6.3	6.0	6.3	3.3	4.0	3.3	4.3	4.7	4.7	5.7	5.7	6.7	4.7
RDC	6.3	6.0	6.3	3.3	4.7	4.3	4.7	4.7	5.0	5.7	4.7	5.3	4.7

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT RALEIGH, NC 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS									MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
SE5STAR	6.3	6.0	6.0	3.3	4.3	4.7	5.0	5.0	5.0	5.0	5.0	5.3	4.7
DLFPS-321/3701	6.7	7.0	6.0	3.0	4.3	5.0	6.0	5.3	5.3	5.0	3.7	4.0	4.6
DLFPS-321/3703	7.0	7.0	6.0	3.3	4.3	4.7	5.0	5.0	5.0	5.0	4.3	5.0	4.6
FAYETTE	6.3	6.0	6.0	3.3	4.3	4.3	4.7	4.3	5.0	5.3	4.3	5.3	4.6
GRANDE 3	7.3	6.3	6.3	3.3	4.7	4.0	5.0	4.7	5.0	5.3	4.3	5.3	4.6
BONFIRE (JS DTT)	6.7	6.0	6.0	3.0	3.7	4.7	4.7	4.3	4.7	5.0	5.0	6.3	4.6
K18-RS6	6.3	5.7	6.0	3.0	3.3	3.7	4.7	4.7	5.0	5.0	5.3	6.3	4.6
PPG-TF 254	6.3	6.3	6.0	3.3	3.7	4.0	4.7	4.3	5.0	4.7	5.3	6.0	4.6
PPG-TF 255	6.7	5.7	6.3	3.0	3.3	4.0	4.3	4.3	5.0	5.3	5.7	6.3	4.6
PPG-TF 257	7.0	6.0	6.3	3.0	4.0	4.3	5.0	4.7	4.7	4.7	5.0	5.7	4.6
PPG-TF 308	6.3	6.3	6.0	3.0	4.0	4.7	5.0	4.7	5.0	5.0	4.3	5.7	4.6
PPG-TF 337	7.0	5.7	6.3	3.0	3.0	4.0	4.7	5.0	5.3	5.7	5.0	5.3	4.6
PST-5BYOB	6.3	5.7	5.7	3.3	3.7	4.0	4.3	4.3	4.7	5.0	6.0	6.3	4.6
PST-5GQ	6.3	6.3	6.3	3.0	4.0	4.7	4.7	4.3	4.7	5.0	5.3	5.3	4.6
PST-5THM	6.0	6.0	6.0	3.3	3.3	3.7	4.0	4.3	5.0	5.7	5.7	6.3	4.6
DLFPS-TF/3552	6.7	6.0	6.0	3.0	3.3	4.0	4.7	4.0	4.3	5.0	5.7	6.7	4.5
OKEEFE (LTP-TF-122)	7.3	6.7	5.3	3.0	3.3	4.3	5.0	4.7	5.0	5.0	4.7	5.3	4.5
TANGO	6.3	5.3	5.7	3.3	3.7	3.7	4.0	4.3	4.7	5.0	5.3	6.3	4.5
DLFPS-TF/3550	6.7	5.7	6.0	3.0	3.0	3.7	4.3	4.3	5.0	5.0	5.3	6.3	4.4
MOONDANCE GLX	6.7	5.7	6.0	3.0	3.3	4.0	4.3	4.3	4.7	5.0	5.0	5.7	4.4
PPG-TF 262	6.7	6.7	5.7	3.0	3.3	4.3	4.7	4.7	5.0	5.0	4.3	5.0	4.4
SE53D2	6.0	6.0	6.0	3.0	3.3	4.0	4.0	4.3	4.3	4.7	5.7	6.7	4.4
ATF1768	7.0	6.3	5.3	3.3	4.0	4.3	5.0	4.3	4.7	4.3	4.3	4.7	4.3
ESTRENA	6.3	6.0	6.0	3.0	3.7	4.3	5.0	4.7	5.0	5.3	3.7	3.7	4.3
GO-AOMK	7.0	6.3	6.3	2.7	3.3	4.7	5.0	4.7	4.7	4.3	4.3	4.7	4.3
JT 268	7.0	6.0	6.7	3.0	3.3	3.7	4.0	4.0	5.0	5.3	4.7	5.7	4.3
K18-NSE	6.7	6.7	6.3	3.0	3.7	4.0	5.0	5.0	4.7	4.7	4.0	5.0	4.3
LIFEGUARD	6.3	6.0	6.3	3.3	3.7	3.7	4.0	3.7	4.7	4.7	5.0	5.7	4.3
NATURALLY GREEN	7.0	7.0	6.0	4.0	5.0	4.0	4.3	4.0	4.0	4.0	4.3	5.3	4.3
PRO GOLD	6.0	6.0	6.0	3.0	3.3	3.7	4.0	4.0	4.3	4.3	5.7	6.7	4.3
RAD-TF105	7.3	6.3	6.0	3.0	4.0	4.3	4.7	4.7	5.0	4.3	4.0	4.3	4.3
RAPTOR III	6.3	5.3	6.0	3.0	3.3	3.7	4.3	4.0	4.3	4.7	5.3	6.3	4.3
RHL2	6.7	5.7	7.0	3.0	3.3	4.7	5.3	4.7	5.0	4.7	4.0	4.0	4.3
RS1	6.7	5.7	6.3	3.3	4.0	3.7	4.0	3.7	4.3	5.0	5.0	6.0	4.3
DLFPS-321/3695	7.3	5.7	6.7	3.3	3.7	4.3	5.0	4.3	4.3	4.3	4.0	4.7	4.2
DLFPS-321/3696	7.3	5.7	6.7	3.3	3.7	4.0	4.7	5.0	4.3	4.3	3.7	4.7	4.2
PARAMOUNT	7.0	6.3	6.3	3.3	4.3	3.7	5.0	4.0	4.3	4.7	4.0	4.7	4.2
PPG-TF 336	6.7	5.7	6.0	2.7	3.3	4.0	4.7	4.7	5.7	5.0	3.7	4.3	4.2
PST-5DZM	6.7	6.0	6.7	2.7	3.0	3.7	4.7	4.0	4.7	5.0	4.7	5.3	4.2
TMT1	7.3	6.7	6.3	3.0	4.3	5.3	5.7	5.0	4.3	3.3	3.3	3.7	4.2
DLFPS-TF/3553	7.0	6.3	6.3	3.3	3.3	3.7	4.3	4.0	4.7	4.7	4.3	5.0	4.1
GRAND PRIX (FC15-01P)	7.0	6.0	6.0	3.0	3.3	3.7	4.7	4.7	4.3	4.3	4.0	4.7	4.1
HEMI	6.0	5.0	5.7	3.0	3.0	3.3	3.7	4.0	4.7	4.7	5.0	6.0	4.1
SETFM3	7.0	6.0	6.3	3.7	4.0	3.7	4.0	3.7	4.0	4.0	4.7	5.3	4.1
5LSS	7.0	6.0	7.0	3.3	3.3	4.0	4.3	4.3	4.7	4.7	3.3	4.0	4.0

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT RALEIGH, NC 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS									
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
BAR FA 8228	5.7	6.0	5.7	3.3	4.3	4.0	4.3	3.7	3.7	4.0	4.0	4.3	4.0
BAR TF 134	6.7	5.7	5.7	2.3	2.3	3.3	4.0	4.0	4.7	5.0	4.7	5.3	4.0
BAR-FA8230	6.7	6.0	5.7	3.3	4.0	3.7	4.3	3.7	3.7	3.7	4.0	5.3	4.0
COPIOUS TF	7.0	6.0	6.3	3.0	3.7	3.7	4.0	4.3	3.7	3.7	4.0	5.7	4.0
DLFPS-321/3679	6.7	6.3	6.0	3.0	3.3	3.7	4.3	4.0	4.3	4.3	4.0	4.7	4.0
ESCALADE	6.0	6.3	5.7	3.0	4.3	4.0	4.7	4.0	4.7	4.3	3.3	3.7	4.0
PPG-TF 249	7.0	6.0	7.0	3.7	4.0	4.3	4.3	4.0	4.0	3.7	3.7	4.0	4.0
PPG-TF 305	6.7	5.7	6.3	2.3	2.3	3.3	4.7	4.7	4.7	4.7	4.3	5.0	4.0
PPG-TF 313	6.0	5.7	6.0	3.0	3.0	3.7	4.7	4.0	4.3	4.3	4.3	4.7	4.0
RC4	7.0	4.7	6.7	3.0	3.3	3.3	3.7	3.7	4.0	4.0	5.0	6.0	4.0
AH1	7.0	6.0	6.7	3.0	3.0	3.0	3.7	3.7	4.0	4.0	5.0	5.7	3.9
COL-TF-148	6.7	5.7	6.0	3.0	3.0	3.3	3.7	3.3	3.7	4.3	4.7	6.0	3.9
DLFPS-321/3707	7.0	6.0	6.0	3.0	3.0	4.0	4.3	4.7	4.7	4.7	3.3	3.7	3.9
KENTUCKY-31	4.0	6.3	4.7	3.7	4.0	4.0	4.7	3.3	3.7	3.7	3.7	4.3	3.9
PALOMAR	6.3	6.3	5.3	3.7	4.0	3.7	4.0	3.7	3.7	3.7	4.0	4.7	3.9
PPG-TF 315	6.3	6.0	6.7	3.0	3.3	3.3	4.0	4.3	4.0	3.7	4.7	5.0	3.9
SETF104	7.0	6.0	6.0	3.0	3.3	3.7	5.0	4.7	4.7	4.3	3.0	3.3	3.9
DLFPS-321/3708	7.0	5.7	6.0	2.7	2.7	3.0	3.7	3.7	4.3	4.0	4.7	5.3	3.8
NAI-FQZ-17	6.3	5.0	5.7	2.3	2.7	3.3	3.7	4.0	4.0	4.3	4.3	5.3	3.8
PST-5MINK	6.7	5.3	7.0	3.0	3.3	4.0	4.0	4.0	4.0	4.0	3.7	4.3	3.8
AST8218LM	6.7	6.3	6.3	3.3	3.3	3.7	3.7	3.3	4.0	4.0	3.7	4.3	3.7
DLFPS-321/3702	6.7	6.0	6.3	3.0	3.0	3.3	3.7	4.0	4.0	4.0	4.0	4.3	3.7
FIREHAWK SLT	6.3	6.0	6.7	3.0	3.0	3.7	3.7	3.7	3.7	3.7	4.0	4.7	3.7
K18-WB1	7.0	6.3	6.0	3.0	3.7	4.0	4.3	4.0	4.0	4.0	3.3	3.3	3.7
OG-WALK	6.3	6.0	5.3	3.0	4.0	3.3	3.3	3.3	4.0	4.0	4.0	4.0	3.7
PPG-TF 231	7.0	6.0	6.3	3.3	3.3	4.0	4.0	4.0	3.7	3.7	3.7	4.0	3.7
PPG-TF 312	6.0	6.0	6.7	3.0	3.3	3.7	4.0	3.7	3.7	3.7	4.0	4.0	3.7
DLFPS-321/3693	7.0	6.0	6.3	2.7	2.7	3.0	4.0	4.0	4.0	3.7	3.7	4.7	3.6
JT 517	6.7	5.0	6.3	3.0	3.3	3.3	3.7	3.3	3.3	3.3	4.0	5.0	3.6
BANDIT	7.0	5.7	6.0	3.0	3.3	3.0	3.3	3.3	3.3	3.3	4.0	5.0	3.5
BULLSEYE	6.3	5.3	6.3	2.7	3.0	3.0	3.3	3.3	3.7	3.7	3.7	5.3	3.5
DLFPS-321/3706	6.7	6.0	6.0	2.7	2.7	3.3	3.7	4.0	4.3	4.0	3.3	3.7	3.5
LBF	7.0	6.7	6.0	3.0	3.7	3.3	3.7	3.0	3.3	3.3	3.7	4.7	3.5
PST-5DC24	7.0	5.3	6.3	2.7	2.7	3.0	3.0	3.7	4.0	3.7	4.0	5.0	3.5
AST8118LM	7.0	5.0	6.3	2.7	2.7	3.0	3.3	3.3	3.3	3.3	4.0	5.0	3.4
BAR 9FE MAS	7.0	6.0	6.3	2.7	2.7	3.0	3.7	3.0	3.0	3.0	4.0	5.3	3.4
BGR-TF3	7.3	6.3	6.0	3.3	4.0	4.0	3.7	3.3	3.0	3.0	3.0	3.3	3.4
DLFPS-321/3694	7.0	5.7	6.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.4
SETFM2	7.0	5.3	7.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.3	5.0	3.4
A-TF31	7.0	5.3	6.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3	3.0	3.7	3.0
TURBO SS	7.3	6.0	6.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.3	2.7	2.9
RAD-TF131	7.0	6.0	6.7	2.7	2.7	2.7	2.7	2.7	2.7	2.3	2.0	2.7	2.6
LSD VALUE	0.7	2.4	1.1	1.6	2.8	3.4	3.4	2.4	2.3	2.9	1.3	1.4	1.7
C.V. (%)	6.3	12.6	8.2	15.7	26.9	28.2	28.4	24.1	22.3	24.7	17.2	16.4	17.8

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 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT RALEIGH, NC 1/
2019 DATA

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

NAME	SPRING DENSITY	FALL DENSITY	PERCENT GROUND COVER SPRING	BROWN PATCH	PERCENT ESTABLISHMENT	QUALITY NOV 2018
DLFPS-321/3705	4.3	6.3	97.0	7.3	50.0	3.7
GO-RH20	5.7	6.3	97.0	6.7	45.0	3.0
RH1	5.7	6.7	97.7	7.7	53.3	3.7
NAI-3N2	6.3	4.3	98.3	6.7	45.0	3.0
PPG-TF 244	5.7	5.7	98.3	7.3	50.0	3.3
PPG-TF 306	6.0	4.7	97.0	6.3	51.7	3.3
TF445	4.7	5.7	97.7	6.7	55.0	3.7
BULLSEYE LTZ	5.0	5.0	97.0	7.0	43.3	3.0
PPG-TF 338	4.0	5.3	97.7	7.0	45.0	3.0
PST-5TRN	5.0	6.3	96.3	7.3	41.7	3.0
RHF	4.7	6.3	97.0	6.7	43.3	3.0
SESCR1	5.3	7.7	98.3	8.0	46.7	3.0
BIRMINGHAM	6.7	3.7	99.0	4.7	48.3	3.0
BY-TF-169	5.0	5.3	97.0	7.7	41.7	2.7
PPG-TF 316	3.7	6.7	95.7	7.0	46.7	3.3
BRAVO 2	4.3	6.3	97.7	6.0	46.7	3.3
NAI-ROS4	5.3	5.0	94.3	6.0	46.7	3.3
NAI-ST5	4.7	7.0	97.0	7.3	50.0	3.3
NAI-TUE	5.0	5.7	97.7	6.7	50.0	3.3
PPG-TF 267	5.3	7.0	96.3	7.7	43.3	3.0
TF456	4.3	5.7	97.7	6.0	46.7	3.3
ATF2116	5.3	5.3	97.7	6.7	46.7	3.0
JT 233	4.3	6.3	96.3	7.7	46.7	3.0
TD2	5.0	5.7	97.0	6.3	45.0	3.0
3N1	4.0	5.7	96.3	7.7	43.3	3.3
DLFPS-321/3699	6.0	4.7	97.7	6.0	51.7	3.3
DRAGSTER	5.7	5.3	96.3	5.7	45.0	3.3
DEGAS (LTP-TF-111)	4.7	4.7	97.7	6.3	43.3	3.0
PADRE 2	5.0	6.0	97.7	7.7	45.0	3.0
PPG-TF 238	3.7	6.3	95.7	7.3	48.3	3.7
PST-5E6	4.3	6.3	93.3	6.7	46.7	3.0
RH3	4.0	5.0	97.7	6.0	43.3	3.0
AH2	5.0	6.7	95.7	7.7	50.0	3.3
K18-ROE	5.3	4.7	94.7	6.3	50.0	3.0
PST-5GLBS	4.3	7.3	94.0	7.0	48.3	3.7
ZRC1	5.0	5.3	96.3	6.7	50.0	3.3
3B2	4.7	5.3	96.3	6.3	41.7	3.3
GLX ACED (PST-5DART)	3.7	6.3	96.3	7.3	45.0	3.0
NT-3	4.0	5.7	95.7	5.0	51.7	3.7
PPG-TF 318	4.3	6.0	95.7	7.7	48.3	3.3
PPG-TF 320	3.7	7.7	95.7	7.7	45.0	3.0
PPG-TF 323	4.0	5.0	97.0	7.3	41.7	3.0
PST-5MCMO	4.7	7.3	95.7	7.3	48.3	3.3
PST-5SQB	4.7	6.3	96.3	7.7	48.3	3.3
RDC	5.3	5.7	94.3	7.3	50.0	3.7

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT RALEIGH, NC 1/
2019 DATA

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

NAME	SPRING DENSITY	FALL DENSITY	PERCENT GROUND COVER SPRING	BROWN PATCH	PERCENT ESTABLISHMENT	QUALITY NOV 2018
SE5STAR	4.3	5.0	96.3	5.3	48.3	3.0
DLFPS-321/3701	5.0	4.7	97.7	5.7	45.0	3.0
DLFPS-321/3703	5.7	5.0	97.0	5.3	45.0	3.0
FAYETTE	4.3	4.7	97.0	7.3	50.0	3.0
GRANDE 3	5.0	4.3	95.7	6.7	50.0	3.3
BONFIRE (JS DTT)	4.3	6.3	94.3	7.3	46.7	3.0
K18-RS6	4.3	6.3	95.0	7.0	48.3	3.3
PPG-TF 254	4.7	6.3	96.3	6.7	50.0	3.7
PPG-TF 255	4.3	6.3	93.7	7.7	46.7	3.0
PPG-TF 257	3.7	6.0	94.0	6.7	41.7	3.0
PPG-TF 308	4.3	5.3	95.7	7.7	48.3	3.0
PPG-TF 337	4.3	4.7	94.3	8.0	50.0	3.3
PST-5BYOB	4.0	7.0	94.3	7.3	50.0	3.3
PST-5GQ	4.3	6.0	94.0	7.0	38.3	3.0
PST-5THM	4.3	7.0	95.7	7.7	51.7	3.7
DLFPS-TF/3552	4.0	7.0	95.7	8.0	46.7	3.0
OKEEFE (LTP-TF-122)	4.0	5.0	95.7	6.7	45.0	3.3
TANGO	3.7	6.7	65.7	7.3	48.3	3.3
DLFPS-TF/3550	3.3	6.3	95.0	6.3	41.7	3.0
MOONDANCE GLX	4.0	6.0	95.7	6.0	45.0	3.3
PPG-TF 262	4.3	5.0	95.0	6.7	48.3	3.0
SE53D2	4.3	7.3	95.0	6.7	45.0	3.0
ATF1768	4.3	5.0	97.0	6.0	46.7	3.0
ESTRENA	4.3	3.7	96.0	7.0	46.7	3.3
GO-AOMK	4.3	5.3	97.0	6.0	38.3	2.7
JT 268	4.3	6.0	95.7	7.3	50.0	3.3
K18-NSE	4.7	4.7	95.7	6.3	51.7	3.3
LIFEGUARD	4.3	6.3	95.0	7.7	51.7	3.3
NATURALLY GREEN	5.3	5.7	96.3	7.3	56.7	4.0
PRO GOLD	4.0	6.7	93.7	7.7	43.3	3.0
RAD-TF105	4.0	5.0	93.3	6.0	40.0	3.0
RAPTOR III	3.7	6.3	93.3	7.0	45.0	3.0
RHL2	4.0	4.0	96.3	5.7	51.7	3.7
RS1	4.0	6.0	92.3	8.0	45.0	3.0
DLFPS-321/3695	4.7	5.0	96.3	6.7	46.7	3.3
DLFPS-321/3696	3.7	4.3	95.0	6.7	46.7	3.3
PARAMOUNT	4.3	4.0	95.7	5.3	45.0	3.0
PPG-TF 336	4.0	4.0	95.0	6.7	46.7	3.0
PST-5DZM	3.7	6.0	94.7	6.3	46.7	3.3
TMT1	4.3	4.3	96.3	4.3	46.7	3.0
DLFPS-TF/3553	3.7	5.3	95.7	6.3	45.0	3.3
GRAND PRIX (FC15-01P)	4.7	4.7	95.0	6.3	46.7	3.0
HEMI	4.3	6.0	92.7	5.3	46.7	3.0
SETFM3	4.3	5.7	93.3	7.0	46.7	3.3
5LSS	4.0	4.0	95.7	4.7	46.7	3.0

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT RALEIGH, NC 1/
2019 DATA

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

NAME	SPRING DENSITY	FALL DENSITY	PERCENT GROUND COVER SPRING	BROWN PATCH	PERCENT ESTABLISHMENT	QUALITY NOV 2018
BAR FA 8228	4.3	5.0	95.7	8.0	48.3	3.3
BAR TF 134	3.3	6.0	93.7	7.7	41.7	3.0
BAR-FA8230	4.0	5.3	96.3	6.7	43.3	3.3
COPIOUS TF	3.7	5.3	95.0	6.3	46.7	3.0
DLFPS-321/3679	4.3	5.3	94.7	6.7	41.7	3.0
ESCALADE	4.7	3.7	97.7	4.3	46.7	3.0
PPG-TF 249	4.0	5.3	94.3	6.7	46.7	3.3
PPG-TF 305	4.0	5.7	93.0	6.7	40.0	3.0
PPG-TF 313	3.3	5.7	92.7	7.0	41.7	3.0
RC4	3.7	6.0	91.0	7.7	43.3	3.0
AH1	4.7	6.3	93.7	7.7	46.7	3.0
COL-TF-148	3.7	5.3	95.0	6.3	45.0	3.0
DLFPS-321/3707	3.7	4.3	92.0	6.0	48.3	3.3
KENTUCKY-31	6.3	5.3	98.3	8.0	66.7	4.0
PALOMAR	3.7	4.7	96.3	6.0	45.0	3.3
PPG-TF 315	3.7	5.7	92.0	5.0	41.7	3.0
SETF104	3.7	4.0	94.3	5.3	38.3	3.0
DLFPS-321/3708	3.0	6.0	93.0	6.3	43.3	3.0
NAI-FQZ-17	3.0	5.3	92.7	6.3	38.3	3.0
PST-5MINK	3.7	4.7	95.7	6.7	36.7	3.0
AST8218LM	5.0	4.0	91.0	6.3	43.3	3.0
DLFPS-321/3702	3.7	5.3	91.7	6.7	41.7	3.0
FIREHAWK SLT	4.0	5.3	93.7	6.7	45.0	3.0
K18-WB1	3.7	3.7	94.3	6.0	45.0	3.0
OG-WALK	4.0	5.0	97.0	7.0	46.7	3.0
PPG-TF 231	4.7	5.0	93.7	6.3	50.0	3.3
PPG-TF 312	4.7	4.7	92.0	6.3	45.0	3.0
DLFPS-321/3693	3.7	4.7	95.7	5.3	45.0	3.0
JT 517	3.7	4.7	94.3	6.7	48.3	3.3
BANDIT	4.0	5.0	65.0	6.7	45.0	3.0
BULLSEYE	3.7	3.7	95.0	7.7	45.0	3.0
DLFPS-321/3706	3.7	3.3	92.0	4.3	43.3	3.0
LBF	5.0	5.0	94.3	5.3	46.7	3.0
PST-5DC24	3.0	5.0	92.7	7.0	41.7	3.0
AST8118LM	3.3	5.0	94.3	6.3	38.3	3.0
BAR 9FE MAS	4.7	5.7	93.7	6.7	41.7	3.0
BGR-TF3	5.0	3.7	93.0	4.3	45.0	3.0
DLFPS-321/3694	4.3	4.7	93.7	6.7	48.3	3.3
SETFM2	3.7	6.0	91.3	6.7	40.0	3.0
A-TF31	3.0	4.0	88.7	6.0	43.3	3.0
TURBO SS	3.7	2.3	87.0	5.3	40.0	3.0
RAD-TF131	3.7	2.7	88.7	4.0	43.3	3.0
LSD VALUE	3.3	1.6	24.8	3.2	12.5	1.1
C.V. (%)	25.0	17.4	7.1	19.0	11.8	11.5

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 16.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT MEAD, NE 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SEEDLING VIGOR	FALL DENSITY	COLOR NOVEMBER	APR	MAY	JUN	QUALITY RATINGS			OCT	MEAN
										JUL	AUG	SEP		
RHL2	5.0	4.3	5.3	6.0	5.7	6.3	4.0	6.0	5.7	5.7	5.3	5.7	6	5.5
RH3	5.0	4.0	5.3	6.0	5.0	6.0	4.3	6.0	6.0	5.3	5.0	5.3	6	5.4
TF456	5.0	4.3	5.3	6.7	5.7	6.0	4.3	6.0	5.7	5.3	5.0	5.7	6	5.4
K18-RS6	4.7	4.0	6.0	6.3	5.0	6.0	3.7	5.3	5.3	5.7	5.3	5.7	6	5.3
PPG-TF 267	5.0	4.3	5.0	6.0	5.7	6.0	4.0	5.7	5.3	5.3	5.0	5.7	6	5.3
PPG-TF 312	5.0	4.0	5.3	6.0	5.7	6.0	3.7	5.3	5.3	5.7	5.3	5.7	6	5.3
RS1	5.0	4.3	5.0	6.3	5.3	6.0	4.0	5.0	5.3	5.7	5.3	5.7	6	5.3
AH2	4.3	4.0	5.0	5.7	5.7	6.0	3.7	5.3	5.3	5.7	5.0	5.3	6	5.2
COL-TF-148	5.0	4.3	5.7	6.3	5.3	6.3	4.0	5.7	5.7	5.0	5.0	5.3	6	5.2
DLFPS-321/3696	5.0	4.0	5.3	6.0	5.3	6.0	4.0	5.3	5.7	5.3	5.0	5.0	6	5.2
FIREHAWK SLT	4.7	4.0	5.3	6.0	5.0	6.0	4.0	5.0	5.3	5.7	5.0	5.3	6	5.2
K18-WB1	5.3	4.3	5.3	6.0	5.3	6.0	3.3	4.7	5.3	6.0	5.3	6.0	6	5.2
NAI-3N2	5.0	4.0	5.3	6.7	5.0	6.0	4.3	5.3	5.3	5.0	5.0	5.3	6	5.2
PPG-TF 257	5.0	4.0	5.0	6.0	5.3	6.0	3.7	5.3	5.0	5.3	5.3	5.7	6	5.2
PPG-TF 318	5.0	4.3	5.3	6.3	5.3	6.0	3.3	5.7	6.0	5.3	5.0	5.0	6	5.2
PRO GOLD	5.0	4.0	5.3	6.0	5.3	6.0	3.7	5.3	5.7	5.0	5.0	5.7	6	5.2
PST-5GQ	5.0	4.0	5.0	6.7	5.3	6.0	3.7	5.3	5.7	5.3	5.0	5.3	6	5.2
SE5STAR	5.0	4.0	5.3	5.0	5.3	6.0	3.7	5.7	5.7	5.0	5.0	5.3	6	5.2
3N1	5.0	4.0	6.0	6.0	5.0	6.0	3.3	5.0	4.7	5.7	5.3	5.7	6	5.1
5LSS	5.0	4.0	5.3	5.7	5.7	6.0	3.7	5.0	5.3	5.7	5.0	5.3	6	5.1
BAR-FA8230	4.3	4.0	5.7	6.0	5.0	6.0	3.7	5.3	4.7	5.3	5.0	5.7	6	5.1
BRAVO 2	5.0	4.3	5.7	6.0	5.3	6.0	3.3	5.3	5.7	5.0	5.0	5.3	6	5.1
COPIOUS TF	5.0	4.0	5.0	5.7	5.3	6.0	3.7	5.3	5.0	5.3	5.0	5.3	6	5.1
DLFPS-321/3679	5.3	4.0	4.7	5.3	5.3	6.3	4.0	4.7	5.3	5.3	5.3	5.3	6	5.1
OKEEFE (LTP-TF-122)	5.0	4.3	5.3	5.7	5.3	6.3	3.3	5.0	5.7	5.0	5.0	5.7	6	5.1
PARAMOUNT	4.7	4.3	5.3	5.7	5.3	6.0	3.7	5.0	5.3	5.3	5.0	5.3	6	5.1
PPG-TF 249	4.7	4.3	5.3	6.0	5.7	6.0	3.7	5.3	5.0	5.3	5.0	5.3	6	5.1
PPG-TF 255	5.3	4.3	5.3	7.0	5.3	6.0	3.7	5.3	4.3	5.7	5.0	5.7	6	5.1
PPG-TF 313	5.0	4.0	5.0	6.0	5.3	6.0	3.7	5.3	5.3	5.3	5.0	5.3	6	5.1
PPG-TF 316	4.7	4.0	5.0	5.3	5.3	6.0	3.3	5.3	4.7	5.7	5.0	5.7	6	5.1
RAD-TF131	5.0	4.0	5.7	6.3	5.0	6.0	3.7	5.0	5.0	5.3	5.0	5.7	6	5.1
RC4	5.0	4.0	5.7	5.7	5.0	6.0	3.7	5.3	5.0	5.0	5.0	5.7	6	5.1
RDC	5.0	4.3	5.0	6.7	5.7	6.0	3.7	5.3	5.3	5.0	5.0	5.3	6	5.1
SESCR1	5.0	4.3	5.7	6.0	5.0	6.0	3.7	5.3	5.3	5.3	5.0	5.0	6	5.1
TF445	4.7	4.0	5.3	6.0	5.3	6.0	3.7	5.3	5.7	5.3	5.0	5.0	6	5.1
3B2	4.7	4.0	5.0	6.3	5.0	6.0	3.3	5.3	5.0	5.0	5.0	5.0	6	5.0
BANDIT	5.0	4.0	5.3	7.0	5.7	6.0	4.0	5.0	4.7	5.3	5.0	5.3	6	5.0
BAR TF 134	5.0	4.3	5.3	6.0	5.7	6.0	3.0	5.7	5.0	5.3	5.0	5.0	6	5.0
BIRMINGHAM	5.0	4.0	5.3	6.0	5.0	6.0	3.3	4.7	5.0	5.3	5.0	5.7	6	5.0
BY-TF-169	5.0	4.0	5.3	6.7	5.0	6.0	3.3	4.7	5.0	5.7	5.0	5.3	6	5.0
DLFPS-321/3699	5.0	4.0	5.3	5.7	5.0	6.0	3.3	5.0	4.7	5.3	5.0	5.3	6	5.0
DLFPS-321/3703	5.0	4.0	6.0	6.3	5.0	6.0	3.3	5.3	5.0	5.3	4.7	5.3	6	5.0
DLFPS-321/3707	5.0	4.3	5.0	5.3	5.3	6.0	3.0	5.0	4.3	5.7	5.0	5.7	6	5.0
DLFPS-321/3708	5.0	4.0	5.0	5.7	5.3	6.0	3.3	5.0	5.0	5.3	5.0	5.7	6	5.0
FAYETTE	5.0	4.7	5.3	6.7	5.7	6.0	3.3	5.0	5.0	5.0	5.0	5.7	6	5.0

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT MEAD, NE 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SEEDLING VIGOR	FALL DENSITY	COLOR NOVEMBER	APR	MAY	JUN	QUALITY RATINGS			OCT	MEAN
										JUL	AUG	SEP		
GO-AOMK	6.0	4.0	5.0	5.7	5.0	6.0	3.3	5.0	5.0	5.0	4.7	5.7	6	5.0
BONFIRE (JS DTT)	5.0	4.0	6.0	6.3	5.3	6.0	3.3	5.0	4.7	5.7	5.0	5.3	6	5.0
K18-NSE	4.7	4.3	5.3	5.3	5.3	6.0	3.0	5.0	5.3	5.7	5.0	5.0	6	5.0
MOONDANCE GLX	5.0	4.0	6.0	5.3	5.0	6.0	3.3	5.3	5.0	4.7	4.7	5.7	6	5.0
NAI-FQZ-17	5.0	4.0	6.0	6.3	5.0	6.0	3.7	5.3	5.0	5.0	5.0	5.3	6	5.0
NAI-ST5	5.3	4.0	5.7	6.0	5.0	6.0	3.3	5.0	5.0	5.0	5.0	5.3	6	5.0
NT-3	4.7	4.7	6.0	6.0	5.3	6.0	3.7	5.0	5.3	5.0	4.7	5.3	6	5.0
PADRE 2	5.3	4.0	6.0	5.7	5.0	6.0	3.7	5.0	5.0	5.0	5.0	5.3	6	5.0
PPG-TF 244	5.0	4.0	5.7	5.7	5.0	6.0	3.3	5.0	5.3	5.3	5.0	5.3	6	5.0
PPG-TF 262	4.7	4.3	5.7	6.0	5.0	6.0	3.3	5.0	5.0	5.0	5.0	5.7	6	5.0
PPG-TF 306	5.0	4.0	5.3	6.0	5.0	6.0	3.0	5.0	4.7	5.3	5.0	5.7	6	5.0
PPG-TF 308	5.0	4.0	6.0	6.0	5.0	6.0	3.3	4.7	4.7	5.7	5.3	5.7	6	5.0
PPG-TF 323	5.3	4.0	5.7	6.3	5.0	6.0	3.0	5.0	4.3	5.3	5.3	5.7	6	5.0
PPG-TF 336	5.0	4.3	5.7	6.0	5.3	6.0	3.3	5.0	4.7	5.0	5.0	5.7	6	5.0
PPG-TF 337	5.0	4.0	5.0	6.0	5.7	6.0	3.7	5.3	5.0	5.0	5.0	5.3	6	5.0
PPG-TF 338	5.0	4.3	5.0	6.0	5.7	6.0	3.7	5.0	5.0	5.3	5.0	5.0	6	5.0
PST-5BYOB	5.3	4.0	6.0	6.0	5.0	6.0	3.0	5.0	4.7	5.3	5.0	5.7	6	5.0
PST-5DZM	4.7	4.0	5.0	6.0	5.3	6.0	3.3	5.3	5.3	5.3	4.7	5.0	6	5.0
RAD-TF105	5.0	4.0	5.3	6.0	5.3	6.0	3.3	4.7	4.3	5.3	5.0	6.0	6	5.0
RH1	5.0	4.0	5.3	6.3	5.3	6.0	3.7	5.3	5.0	5.3	5.0	5.0	6	5.0
RHF	5.0	4.3	5.3	6.7	5.0	6.0	3.3	5.3	4.7	5.3	5.0	5.0	6	5.0
TD2	5.0	4.0	5.0	6.0	6.0	6.3	3.7	5.0	5.0	5.0	5.0	5.0	6	5.0
TURBO SS	5.0	4.3	5.0	6.3	5.3	6.0	4.0	5.0	5.0	5.0	5.0	5.3	6	5.0
AH1	4.7	4.0	5.7	5.7	5.0	6.0	3.3	5.0	4.7	5.0	5.0	5.0	6	4.9
AST8118LM	5.3	4.0	5.3	6.3	5.0	6.0	3.0	4.7	4.7	5.3	5.0	5.3	6	4.9
AST8218LM	5.7	4.0	6.0	6.0	5.0	6.0	3.3	5.3	4.7	5.3	4.7	4.7	6	4.9
BULLSEYE	5.0	4.0	5.7	6.3	5.0	6.0	3.3	4.7	5.0	5.0	5.0	5.3	6	4.9
BULLSEYE LTZ	5.0	4.0	5.3	6.3	5.3	6.0	3.3	5.0	5.0	5.0	5.0	5.0	6	4.9
DLFPS-321/3694	4.7	4.7	5.3	6.0	5.3	6.0	3.3	4.3	4.3	5.7	5.0	5.7	6	4.9
DLFPS-321/3701	5.0	4.0	5.0	6.0	5.0	6.0	3.0	5.0	5.3	5.0	5.0	5.0	6	4.9
DLFPS-321/3705	5.3	4.0	5.7	5.3	5.0	6.0	3.0	4.7	4.7	5.7	5.0	5.3	6	4.9
DLFPS-321/3706	5.0	4.0	5.7	5.7	5.0	6.0	3.0	5.0	4.7	5.0	5.0	5.3	6	4.9
ESCALADE	4.7	4.0	5.3	6.3	5.3	6.0	3.0	5.0	4.7	5.0	5.0	5.3	6	4.9
GLX ACED (PST-5DART)	5.3	4.3	5.3	5.7	5.0	6.0	3.0	5.0	4.3	5.0	5.0	5.7	6	4.9
GO-RH20	5.0	4.0	5.7	6.0	5.0	6.0	3.0	4.7	4.7	5.7	5.0	5.3	6	4.9
GRAND PRIX (FC15-01P)	5.0	4.0	5.7	6.0	5.0	6.0	3.3	5.0	4.7	5.0	4.7	5.3	6	4.9
GRANDE 3	5.0	3.7	6.0	6.0	5.0	6.0	3.0	4.3	5.0	5.3	5.0	5.7	6	4.9
HEMI	5.0	4.0	5.7	6.0	5.0	6.0	3.0	5.0	5.0	5.3	5.0	5.0	6	4.9
JT 233	5.3	4.0	5.0	5.7	5.0	6.0	3.0	4.7	4.7	5.3	5.0	5.3	6	4.9
JT 268	5.3	4.0	5.0	5.7	5.0	6.0	3.0	4.7	4.7	5.0	5.0	5.7	6	4.9
JT 517	5.3	4.3	5.0	6.3	5.0	6.0	3.3	5.0	4.7	5.0	5.0	5.3	6	4.9
K18-ROE	5.3	4.0	5.7	5.7	5.3	6.0	3.3	4.7	4.3	5.0	5.0	5.7	6	4.9
LIFEGUARD	5.0	4.0	5.3	5.3	5.3	6.0	3.0	5.3	5.0	5.0	5.0	5.0	6	4.9
NAI-ROS4	5.0	4.0	6.0	5.7	5.0	6.0	3.0	4.7	4.7	5.7	5.0	5.3	6	4.9
NAI-TUE	5.3	4.0	6.0	5.7	5.0	6.0	3.3	4.7	4.7	5.0	5.0	5.3	6	4.9

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT MEAD, NE 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SEEDLING VIGOR	FALL DENSITY	COLOR NOVEMBER	APR	MAY	JUN	JUL	QUALITY RATINGS			MEAN
											AUG	SEP	OCT	
OG-WALK	5.0	4.0	6.0	6.0	5.0	6.0	3.0	5.3	5.0	4.7	4.7	5.3	6	4.9
PPG-TF 254	5.0	4.0	5.0	6.3	5.0	6.0	3.3	4.3	4.3	5.3	5.0	5.7	6	4.9
PPG-TF 305	5.0	4.0	5.3	6.0	5.3	6.0	3.0	5.3	4.7	5.3	5.0	5.0	6	4.9
PPG-TF 315	5.0	4.0	5.7	5.7	5.0	6.0	3.3	4.7	4.7	5.3	5.0	5.3	6	4.9
PST-5DC24	5.0	4.3	5.7	6.3	5.3	6.0	3.3	4.3	5.0	5.0	5.0	5.7	6	4.9
PST-5E6	5.0	4.0	5.7	6.0	5.3	6.0	3.0	5.0	4.3	5.3	5.0	5.3	6	4.9
PST-5GLBS	4.3	4.0	6.0	6.0	5.3	6.0	3.3	5.0	4.7	5.0	5.0	5.3	6	4.9
PST-5MCMO	4.7	4.0	5.7	6.3	5.3	6.0	3.3	5.0	4.7	5.0	5.0	5.3	6	4.9
PST-5TRN	5.0	4.0	6.0	6.3	5.0	6.0	3.0	5.0	5.0	5.3	5.0	5.0	6	4.9
RAPTOR III	5.0	4.0	6.0	6.0	5.0	6.0	3.3	5.0	4.7	5.3	5.0	5.0	6	4.9
SE53D2	5.0	4.0	6.0	6.3	5.0	6.0	3.3	5.0	4.3	5.3	5.0	5.0	6	4.9
SETF104	5.3	4.0	5.3	5.3	5.0	6.0	3.0	5.0	5.0	5.3	5.0	5.0	6	4.9
SETFM3	5.3	4.3	5.3	6.0	5.0	6.0	3.3	4.7	5.0	5.3	5.0	5.0	6	4.9
TMT1	5.0	4.3	6.0	5.7	5.3	6.0	3.3	4.3	4.7	5.3	5.0	5.3	6	4.9
A-TF31	5.3	4.0	5.0	6.0	5.0	6.0	3.0	5.0	4.3	5.0	5.0	5.3	6	4.8
ATF1768	5.0	4.0	5.7	6.0	5.0	6.0	3.3	5.0	4.3	5.0	4.7	5.3	6	4.8
BAR 9FE MAS	5.3	4.3	5.3	6.0	5.0	6.0	3.3	4.7	4.3	5.0	4.7	5.3	6	4.8
DLFPS-321/3695	5.0	4.3	5.7	5.7	5.3	6.0	3.3	4.7	4.3	5.3	5.0	5.0	6	4.8
DLFPS-321/3702	5.0	4.0	5.7	6.3	5.0	6.0	3.0	5.0	4.3	5.0	5.0	5.0	6	4.8
DLFPS-TF/3552	5.0	4.0	6.0	6.7	5.0	6.0	3.3	4.3	4.0	5.3	5.0	5.7	6	4.8
DRAGSTER	5.0	4.3	5.3	6.3	5.0	6.0	3.3	4.7	4.3	5.0	5.0	5.3	6	4.8
ESTRENA	5.3	4.0	5.7	5.7	5.0	6.0	3.0	4.7	4.7	5.0	5.0	5.3	6	4.8
PPG-TF 231	5.0	4.0	5.3	5.7	5.0	6.0	3.0	4.0	4.0	5.7	5.0	5.7	6	4.8
PPG-TF 238	5.0	4.0	5.3	6.3	5.0	6.0	3.3	4.3	4.0	5.0	5.0	5.7	6	4.8
PPG-TF 320	5.3	4.0	6.0	5.7	5.0	6.0	3.0	4.3	4.3	5.3	5.0	5.3	6	4.8
PST-5SQB	5.0	4.0	5.7	5.3	5.0	6.0	3.0	5.0	5.0	5.0	4.3	5.0	6	4.8
TANGO	5.0	4.0	5.3	6.7	5.0	6.0	3.3	4.7	4.7	5.0	4.7	5.0	6	4.8
ZRC1	5.0	4.0	6.0	5.3	5.0	6.0	3.0	4.7	4.3	5.3	5.0	5.0	6	4.8
ATF2116	4.7	4.3	5.7	6.7	5.3	6.0	3.3	4.3	4.3	5.0	5.0	5.0	6	4.7
BAR FA 8228	5.0	4.3	6.0	5.7	5.0	6.0	3.0	4.7	4.7	5.0	4.7	5.0	6	4.7
DLFPS-321/3693	5.0	4.7	5.0	5.3	5.0	6.0	3.0	4.3	4.0	5.0	5.0	5.3	6	4.7
DLFPS-TF/3550	5.0	3.7	5.3	6.0	5.0	6.0	3.0	4.3	4.0	5.0	5.0	5.7	6	4.7
DLFPS-TF/3553	5.0	4.0	5.3	5.7	5.3	6.0	3.3	4.0	4.0	5.3	5.0	5.3	6	4.7
DEGAS (LTP-TF-111)	5.0	3.7	5.3	5.0	5.0	6.0	3.0	4.3	4.0	5.3	5.0	5.0	6	4.7
NATURALLY GREEN	6.0	4.7	5.7	5.7	5.0	6.0	3.3	4.7	4.3	5.0	4.7	5.0	6	4.7
PALOMAR	5.0	4.0	5.7	5.3	5.0	6.0	3.0	4.7	4.3	5.0	4.7	5.3	6	4.7
PST-5THM	5.3	4.0	6.0	6.3	5.0	6.0	3.0	4.3	4.3	5.0	4.7	5.3	6	4.7
SETFM2	5.7	4.0	5.7	6.0	5.0	6.0	3.0	4.3	4.0	5.0	5.0	5.7	6	4.7
BGR-TF3	5.3	4.3	5.3	5.0	5.0	6.7	3.0	4.3	4.3	5.0	4.7	4.7	6	4.6
LBF	5.0	4.0	5.3	5.7	5.3	6.3	3.3	4.7	4.0	5.0	4.7	4.7	6	4.6
PST-5MINK	5.0	4.0	5.0	5.7	5.0	6.0	3.0	4.0	4.0	5.3	4.7	4.7	6	4.5
KENTUCKY-31	3.0	4.0	6.0	6.0	5.0	6.0	3.3	4.0	4.0	4.3	4.3	4.7	6	4.4
LSD VALUE	0.6	2.0	0.9	3.1	1.2	0.4	1.5	1.9	1.7	1.6	1.0	2.5	0	0.6
C.V. (%)	6.9	8.8	8.1	11.4	7.1	2.2	14.9	12.6	14.0	8.3	5.5	9.6	0	5.1

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

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

TABLE 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST AT NORTH BRUNSWICK, NJ 1/
 2019 DATA

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

NAME	PERCENT			QUALITY RATINGS							MEAN
	SPRING GREENUP	GRAY LEAF SPOT	ESTABLISHMENT	APR	MAY	JUN	JUL	AUG	SEP	OCT	
K18-RS6	6.7	9.0	75.0	7.7	7.7	8.3	9.0	8.3	9.0	8.0	8.3
JT 268	6.0	9.0	66.7	7.7	8.3	8.3	8.3	7.0	8.3	7.7	8.0
AH2	6.7	9.0	85.0	6.0	7.7	8.7	8.0	7.0	9.0	7.7	7.7
PPG-TF 238	6.3	9.0	80.0	6.7	7.3	7.7	7.7	7.7	7.7	7.7	7.5
RHF	6.3	9.0	65.0	7.3	8.0	7.0	7.3	7.3	8.0	6.7	7.4
OKEEFE (LTP-TF-122)	6.0	9.0	65.0	6.7	7.0	7.3	6.7	7.0	8.7	7.7	7.3
PPG-TF 313	6.3	8.7	70.0	6.3	7.3	7.7	7.3	7.3	8.0	7.0	7.3
TD2	6.3	8.7	78.3	5.3	6.7	7.0	8.0	7.0	9.0	8.3	7.3
K18-WB1	6.0	9.0	76.7	7.0	7.0	7.3	6.7	7.0	7.7	7.7	7.2
PPG-TF 312	6.3	9.0	58.3	5.7	6.0	8.3	7.7	7.3	8.0	7.7	7.2
PPG-TF 318	6.0	9.0	65.0	5.7	6.7	6.7	8.7	8.0	8.3	6.3	7.2
5LSS	5.7	9.0	70.0	5.3	6.3	7.3	8.0	7.7	7.3	7.7	7.1
AH1	6.3	9.0	75.0	5.0	6.0	7.3	7.3	8.0	8.7	7.7	7.1
COL-TF-148	5.7	9.0	66.7	6.7	7.3	7.7	6.7	6.7	8.0	6.7	7.1
K18-NSE	6.7	9.0	80.0	6.7	7.3	8.7	6.3	6.7	7.7	6.7	7.1
PPG-TF 338	5.0	9.0	80.0	5.7	6.7	7.7	6.3	7.3	8.0	8.0	7.1
RH3	6.3	9.0	76.7	6.0	7.3	6.7	7.7	6.7	8.0	7.7	7.1
RHL2	6.0	9.0	75.0	5.7	6.3	8.3	6.7	7.3	8.0	7.7	7.1
ZRC1	6.3	9.0	63.3	4.7	5.7	7.7	7.7	7.7	8.7	8.0	7.1
PPG-TF 308	6.0	9.0	66.7	5.3	6.7	6.7	7.7	7.0	8.7	6.7	7.0
PPG-TF 320	5.7	9.0	78.3	6.0	6.3	7.3	7.7	7.0	7.7	6.7	7.0
PPG-TF 336	5.7	9.0	76.7	5.0	6.0	7.7	7.7	8.0	7.7	7.3	7.0
RC4	4.7	9.0	66.7	5.0	7.3	7.0	7.0	7.3	8.0	7.7	7.0
TF456	6.7	9.0	71.7	6.3	7.0	6.7	7.0	6.7	8.0	7.7	7.0
DLFPS-TF/3552	6.0	9.0	55.0	5.0	6.3	7.0	7.3	7.0	8.3	7.3	6.9
ESTRENA	7.0	9.0	78.3	6.0	6.3	7.0	7.3	7.3	7.0	7.3	6.9
PPG-TF 262	6.0	9.0	61.7	5.7	6.7	7.3	6.7	6.3	8.0	7.3	6.9
RAPTOR III	6.3	9.0	61.7	7.0	7.0	6.7	7.3	6.7	7.7	6.0	6.9
PPG-TF 231	6.7	9.0	66.7	4.7	6.0	7.3	7.3	7.3	8.0	6.7	6.8
PPG-TF 267	6.0	9.0	66.7	6.7	6.7	6.0	7.0	5.7	8.3	7.3	6.8
DLFPS-321/3695	6.3	9.0	80.0	6.3	6.0	7.3	6.3	6.3	7.7	6.7	6.7
JT 233	5.7	9.0	61.7	6.0	6.3	7.0	7.0	7.0	7.0	6.3	6.7
NAI-ROS4	6.3	9.0	60.0	5.3	5.0	7.3	7.0	6.0	8.0	8.0	6.7
PARAMOUNT	6.0	9.0	51.7	5.7	6.0	7.7	7.3	6.7	7.0	6.3	6.7
BY-TF-169	6.3	9.0	55.0	5.7	5.3	6.7	6.7	7.3	7.7	7.0	6.6
DLFPS-TF/3553	5.3	9.0	66.7	5.7	6.3	7.0	6.7	7.0	7.3	6.3	6.6
DRAGSTER	6.3	9.0	51.7	5.7	5.3	8.0	6.7	7.0	8.0	5.3	6.6
NT-3	5.3	9.0	68.3	5.7	6.3	7.0	7.3	7.0	6.7	6.3	6.6
RH1	6.0	9.0	70.0	5.7	5.7	6.3	7.7	7.3	7.3	6.0	6.6
BULLSEYE LTZ	5.3	9.0	76.7	4.7	6.0	7.0	6.7	6.3	7.7	7.0	6.5
DLFPS-321/3693	5.7	8.7	65.0	4.7	5.0	5.7	7.0	7.3	8.0	8.0	6.5
DLFPS-321/3699	5.3	9.0	70.0	6.3	7.3	7.0	6.7	6.7	6.3	5.3	6.5
NAI-3N2	6.0	9.0	70.0	5.0	5.0	7.7	7.0	6.7	7.3	6.7	6.5
PPG-TF 257	5.7	9.0	60.0	4.3	6.3	7.7	6.7	6.0	8.0	6.7	6.5
PPG-TF 337	5.3	9.0	60.0	4.3	6.7	8.0	6.7	5.7	7.7	6.3	6.5

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT NORTH BRUNSWICK, NJ 1/
2019 DATA

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

NAME	PERCENT			QUALITY RATINGS							MEAN
	SPRING GREENUP	GRAY LEAF SPOT	ESTABLISHMENT	APR	MAY	JUN	JUL	AUG	SEP	OCT	
TMT1	5.3	9.0	80.0	5.3	4.7	7.0	7.0	7.0	8.0	6.3	6.5
BAR TF 134	6.7	9.0	68.3	6.0	6.0	6.3	6.3	6.3	7.7	6.3	6.4
DLFPS-TF/3550	5.3	9.0	68.3	5.3	6.3	6.7	7.0	6.3	7.0	6.3	6.4
GO-RH20	6.0	9.0	71.7	5.0	6.0	6.0	7.0	5.7	8.0	7.0	6.4
PPG-TF 244	6.0	9.0	70.0	5.3	5.3	5.7	7.0	6.7	7.3	7.7	6.4
PPG-TF 254	6.0	9.0	65.0	6.3	6.0	6.7	6.7	6.0	6.7	6.7	6.4
PPG-TF 315	5.3	9.0	63.3	5.7	5.0	7.0	7.0	6.7	7.3	6.0	6.4
PPG-TF 323	5.0	9.0	53.3	4.7	5.3	6.3	6.7	6.7	8.3	6.7	6.4
DLFPS-321/3694	6.3	9.0	73.3	6.3	6.0	8.3	5.7	5.0	7.0	6.0	6.3
DLFPS-321/3701	5.3	9.0	56.7	5.0	5.0	7.3	7.0	6.3	7.7	6.0	6.3
DLFPS-321/3703	5.0	9.0	65.0	5.0	5.3	6.0	6.3	6.7	7.7	7.3	6.3
FIREHAWK SLT	6.7	9.0	75.0	6.0	6.0	8.0	7.3	5.7	6.3	4.7	6.3
BONFIRE (JS DTT)	5.7	9.0	75.0	4.7	5.7	5.7	6.7	7.0	7.7	7.0	6.3
PPG-TF 306	5.0	9.0	65.0	4.7	6.0	6.7	6.3	6.0	8.0	6.7	6.3
DLFPS-321/3707	6.0	9.0	66.7	4.7	5.0	5.7	6.0	6.3	8.3	7.7	6.2
K18-ROE	7.0	9.0	80.0	6.7	5.0	6.7	6.0	5.7	7.3	6.3	6.2
DEGAS (LTP-TF-111)	6.7	9.0	60.0	5.7	5.7	6.7	7.0	5.3	7.0	6.3	6.2
PADRE 2	6.3	9.0	68.3	6.0	6.0	7.0	5.3	6.3	6.7	6.3	6.2
RDC	5.7	9.0	80.0	5.0	5.3	6.0	6.3	6.7	8.0	6.0	6.2
TF445	6.0	9.0	76.7	6.3	6.0	6.3	6.0	6.3	6.3	6.0	6.2
HEMI	6.0	9.0	80.0	5.3	5.3	6.3	5.7	5.7	7.0	7.3	6.1
PPG-TF 255	5.3	9.0	68.3	4.7	6.0	6.0	6.3	6.3	7.0	6.3	6.1
PPG-TF 249	5.7	9.0	68.3	4.0	7.0	6.7	5.7	6.3	6.7	5.3	6.0
PPG-TF 316	6.0	9.0	71.7	4.0	6.0	7.0	5.7	5.7	7.7	6.3	6.0
SESCR1	6.3	9.0	58.3	4.3	4.7	6.7	5.3	6.3	8.0	6.3	6.0
DLFPS-321/3706	6.3	9.0	56.7	5.0	5.7	7.0	6.3	4.7	7.0	5.3	5.9
PPG-TF 305	6.0	9.0	75.0	5.7	5.7	6.3	6.3	5.3	7.0	5.0	5.9
RS1	6.3	8.3	71.7	5.0	5.0	6.3	6.3	6.0	7.0	5.7	5.9
DLFPS-321/3696	4.7	9.0	73.3	4.7	4.7	6.0	5.7	7.0	7.0	5.7	5.8
DLFPS-321/3705	5.7	9.0	55.0	5.0	4.7	5.3	6.0	6.0	7.3	6.3	5.8
NAI-ST5	6.3	9.0	76.7	5.3	6.7	6.7	6.3	5.0	6.3	4.0	5.8
DLFPS-321/3702	5.7	9.0	65.0	5.0	4.3	6.3	5.7	6.3	6.7	5.7	5.7
DLFPS-321/3708	4.3	9.0	55.0	4.3	5.0	6.7	6.3	5.7	6.7	5.0	5.7
GLX ACED (PST-5DART)	6.0	9.0	73.3	5.3	4.7	5.7	5.7	5.0	6.7	6.7	5.7
PST-5SQB	7.0	9.0	85.0	6.0	5.3	7.7	5.0	5.0	5.3	5.7	5.7
SETF104	5.7	8.3	66.7	5.0	5.7	6.0	6.0	5.7	6.3	5.0	5.7
3N1	6.3	9.0	48.3	5.7	4.3	5.3	6.7	5.3	6.3	5.7	5.6
A-TF31	6.0	9.0	58.3	5.7	6.3	7.0	5.7	4.0	5.0	4.3	5.4
NAI-TUE	6.0	9.0	68.3	5.7	6.3	7.0	5.7	4.0	5.3	4.0	5.4
PST-5TRN	6.3	9.0	63.3	5.3	5.7	5.3	5.0	5.0	5.7	5.7	5.4
3B2	6.0	9.0	58.3	4.3	5.0	5.3	4.3	4.7	7.3	6.3	5.3
FAYETTE	6.3	9.0	71.7	5.0	4.3	5.7	5.0	5.0	6.3	5.0	5.2
GO-AOMK	4.3	9.0	55.0	4.3	5.7	5.3	6.3	4.3	6.0	4.3	5.2
GRANDE 3	6.3	9.0	71.7	5.7	4.0	5.7	5.7	5.0	6.3	4.3	5.2
PRO GOLD	6.7	9.0	73.3	6.7	5.0	5.3	4.7	4.7	5.7	4.3	5.2

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT NORTH BRUNSWICK, NJ 1/
2019 DATA

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

NAME	PERCENT			QUALITY RATINGS							MEAN
	SPRING GREENUP	GRAY LEAF SPOT	ESTABLISHMENT	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PST-5BYOB	6.3	9.0	81.7	5.0	4.7	5.0	5.3	4.7	6.7	5.3	5.2
SE53D2	6.0	9.0	55.0	5.7	5.7	5.7	5.0	4.3	5.7	4.7	5.2
DLFPS-321/3679	5.3	9.0	66.7	4.7	4.3	5.3	5.3	5.7	6.0	4.7	5.1
RAD-TF105	5.7	9.0	73.3	4.3	5.3	6.3	5.0	5.0	5.3	4.3	5.1
BULLSEYE	6.0	9.0	78.3	5.0	5.0	6.0	5.3	4.0	5.7	3.7	5.0
PST-5MCMO	6.0	9.0	61.7	6.0	4.7	5.0	3.7	5.3	6.0	4.3	5.0
AST8118LM	5.0	9.0	56.7	6.0	5.3	6.0	5.3	3.7	4.7	3.3	4.9
BIRMINGHAM	6.3	9.0	80.0	5.7	4.7	5.3	4.7	3.7	5.3	4.0	4.8
PST-5GQ	5.7	9.0	60.0	5.3	4.0	5.0	4.7	4.3	5.7	4.7	4.8
LBF	5.7	9.0	70.0	5.3	5.7	5.7	4.7	4.3	4.7	2.3	4.7
PST-5DZM	5.7	8.7	58.3	5.3	6.0	5.0	5.0	3.3	5.0	3.0	4.7
LIFEGUARD	6.7	9.0	86.7	5.3	4.3	5.0	3.3	3.7	5.7	5.0	4.6
MOONDANCE GLX	6.0	9.0	63.3	4.3	4.3	3.7	3.7	4.0	6.7	5.7	4.6
RAD-TF131	4.0	6.7	70.0	4.3	4.3	4.7	4.3	4.7	5.0	4.7	4.6
SE5STAR	6.0	9.0	66.7	5.0	4.3	5.7	3.7	3.7	5.7	4.0	4.6
BGR-TF3	6.3	9.0	70.0	4.3	4.3	5.0	5.7	4.0	5.0	3.3	4.5
PST-5GLBS	5.3	9.0	71.7	5.0	5.0	4.3	4.7	3.3	5.3	4.0	4.5
SETFM3	5.3	9.0	56.7	5.0	4.7	5.3	4.3	4.0	5.0	3.3	4.5
PST-5DC24	4.7	9.0	46.7	4.0	4.3	5.0	5.0	3.3	5.7	3.3	4.4
AST8218LM	5.3	9.0	65.0	4.7	4.3	5.0	4.7	4.3	4.0	3.3	4.3
ATF2116	5.3	9.0	70.0	5.0	4.3	5.0	4.3	3.7	5.0	3.0	4.3
BRAVO 2	6.0	9.0	70.0	4.7	4.7	5.0	4.3	3.3	4.3	4.0	4.3
PST-5E6	6.7	9.0	53.3	4.7	4.0	4.0	4.0	3.3	5.7	4.0	4.2
TANGO	6.0	9.0	70.0	4.7	4.3	4.3	4.7	3.3	4.3	3.7	4.2
COPIOUS TF	5.7	9.0	71.7	4.3	4.3	6.3	3.7	3.0	4.7	2.7	4.1
PST-5THM	5.7	9.0	70.0	4.7	3.0	3.7	3.7	4.0	5.3	4.3	4.1
ESCALADE	7.0	8.7	68.3	5.3	3.7	4.3	4.0	3.0	4.7	2.7	4.0
JT 517	5.0	9.0	65.0	4.7	5.0	5.0	4.0	3.0	4.0	2.7	4.0
PST-5MINK	5.0	8.7	45.0	4.0	4.7	4.7	3.7	3.7	4.0	3.3	4.0
ATF1768	5.3	9.0	63.3	4.7	4.3	4.3	3.0	2.7	5.3	3.0	3.9
BANDIT	6.0	9.0	61.7	4.0	3.7	4.7	3.3	3.7	4.3	3.3	3.9
BAR-FA8230	6.3	8.7	70.0	5.3	4.0	5.0	3.0	2.7	4.3	2.7	3.9
BAR 9FE MAS	5.7	9.0	56.7	6.0	4.0	3.7	3.0	3.0	4.3	2.3	3.8
GRAND PRIX (FC15-01P)	6.3	9.0	58.3	4.3	3.3	4.0	3.7	2.7	4.7	3.3	3.7
NAI-FQZ-17	5.7	9.0	66.7	4.7	3.7	4.3	3.3	3.0	3.7	3.0	3.7
SETFM2	5.3	9.0	56.7	4.0	3.3	3.7	3.7	3.3	4.3	3.0	3.6
NATURALLY GREEN	5.7	9.0	73.3	4.3	3.3	4.7	3.3	2.7	3.7	2.0	3.4
TURBO SS	3.7	6.0	76.7	3.0	3.7	4.3	3.7	3.7	3.0	2.0	3.3
BAR FA 8228	6.0	9.0	73.3	4.3	3.0	3.7	2.7	2.0	2.7	1.3	2.8
OG-WALK	6.7	9.0	61.7	4.3	3.7	3.3	2.3	1.3	2.7	2.0	2.8
PALOMAR	7.0	9.0	55.0	4.3	2.3	2.3	2.3	1.7	3.7	1.7	2.6
KENTUCKY-31	9.0	9.0	95.0	1.3	1.0	1.0	1.3	1.0	1.0	1.0	1.1
LSD VALUE	1.0	0.5	21.5	2.8	2.2	2.2	1.9	1.7	1.6	1.9	1.2
C.V. (%)	10.6	3.3	15.7	22.9	23.2	20.8	20.9	20.2	16.0	22.0	13.6

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

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

TABLE 18.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
 2019 DATA

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

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

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2019 DATA

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

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

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST GROWN UNDER TRAFFIC STRESS AT NORTH BRUNSWICK, NJ 1/
2019 DATA

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

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

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

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

TABLE 19.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT ADELPHIA, NJ 1/
2019 DATA

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

NAME	GENETIC COLOR	GRAY LEAF SPOT	PERCENT ESTABLISHMENT	QUALITY OCT 2018	QUALITY RATINGS							MEAN
					APR	MAY	JUN	JUL	AUG	SEP	OCT	
AH2	7.3	7.3	78.7	6.7	6.7	7.0	7.0	7.3	8.3	8.7	8.0	7.6
BONFIRE (JS DTT)	6.7	7.3	76.0	7.7	7.0	7.0	7.0	6.0	7.3	8.0	8.3	7.2
AH1	7.0	7.0	70.3	6.0	7.0	6.3	6.3	7.0	6.3	7.7	7.3	6.9
TMT1	8.3	6.3	77.0	6.7	7.0	6.7	6.3	7.3	7.0	6.7	6.3	6.8
COL-TF-148	6.0	7.0	63.7	6.0	6.3	6.0	6.3	7.3	6.3	7.0	7.0	6.6
DLFPS-321/3696	7.0	6.3	71.0	6.7	7.0	6.7	5.3	6.3	6.7	7.0	7.0	6.6
DLFPS-321/3699	8.3	7.3	71.3	7.3	6.7	7.0	6.7	6.7	6.3	6.0	6.7	6.6
PPG-TF 255	8.0	7.0	65.0	6.0	6.7	6.3	6.0	6.7	6.0	7.0	7.3	6.6
PPG-TF 315	7.3	6.7	63.7	5.7	6.7	6.0	6.7	7.3	6.3	6.7	6.7	6.6
DLFPS-321/3695	7.0	5.3	65.3	5.3	6.3	6.7	6.0	5.7	6.7	7.0	7.0	6.5
GLX ACED (PST-5DART)	6.3	7.0	70.3	6.3	6.7	6.0	6.3	7.0	6.0	6.0	7.3	6.5
K18-RS6	6.3	6.0	66.0	4.7	6.3	6.0	6.0	7.0	7.0	6.0	7.3	6.5
BAR TF 134	5.7	6.3	69.3	5.7	6.0	6.3	6.3	7.0	5.7	6.7	6.7	6.4
PPG-TF 244	7.7	6.3	62.7	5.3	5.7	5.3	5.3	6.0	7.7	7.0	7.7	6.4
DLFPS-TF/3552	8.0	5.7	62.0	5.0	5.7	6.0	5.7	5.7	6.7	7.0	7.3	6.3
DEGAS (LTP-TF-111)	7.3	6.7	58.7	6.3	6.0	5.7	6.3	7.0	6.3	6.3	6.7	6.3
RDC	6.7	5.7	71.0	5.3	6.3	5.7	5.7	6.0	7.0	6.0	7.3	6.3
TF445	5.7	5.7	62.7	5.0	6.7	6.3	5.7	5.7	6.3	7.0	6.7	6.3
OKEEFE (LTP-TF-122)	7.0	6.3	52.7	5.3	6.3	5.7	5.0	6.7	5.7	6.7	7.3	6.2
PPG-TF 254	6.3	6.3	70.3	5.7	6.7	5.7	6.3	6.7	5.7	5.7	6.7	6.2
ZRC1	6.0	5.0	69.3	5.0	5.0	5.7	6.3	6.7	6.3	6.3	7.3	6.2
NAI-ROS4	6.3	5.0	59.3	4.7	6.0	6.0	5.3	6.0	6.0	6.7	7.0	6.1
PPG-TF 249	7.3	5.3	69.3	4.7	6.0	6.0	5.7	6.3	6.3	6.3	6.3	6.1
RS1	6.3	5.3	65.3	5.3	6.0	5.3	5.3	5.3	6.0	7.3	7.3	6.1
DLFPS-321/3694	8.0	4.0	66.0	3.7	5.7	5.3	4.3	5.7	6.3	7.0	7.7	6.0
DLFPS-321/3705	7.0	5.7	67.0	5.0	5.0	5.0	5.3	5.7	7.0	6.7	7.7	6.0
DLFPS-TF/3550	6.0	5.3	59.3	4.7	5.7	5.7	5.3	5.7	6.0	6.7	7.3	6.0
DRAGSTER	7.0	6.7	60.3	5.7	6.3	5.0	5.7	6.0	6.3	6.3	6.7	6.0
NAI-3N2	6.3	6.3	69.3	6.0	6.3	6.7	6.0	4.3	6.0	6.0	6.3	6.0
NAI-ST5	7.7	6.0	59.3	5.0	5.7	5.7	5.7	5.7	6.3	6.7	6.7	6.0
PPG-TF 257	7.7	5.7	62.0	5.3	5.3	5.3	5.3	5.7	6.0	6.7	7.3	6.0
PPG-TF 306	7.0	6.0	60.0	5.0	6.0	6.0	5.0	5.7	6.0	6.7	6.3	6.0
PST-5GLBS	6.3	5.7	58.7	4.7	5.7	5.3	6.0	6.0	5.7	6.0	7.3	6.0
PST-5MCMO	6.0	6.3	61.7	5.7	6.3	6.0	5.3	5.3	6.3	6.0	7.0	6.0
TD2	6.7	5.7	61.3	6.0	5.7	5.7	5.3	5.7	6.3	6.7	7.0	6.0
GRANDE 3	6.0	6.7	69.7	6.3	6.7	5.3	5.0	5.3	5.7	6.3	7.0	5.9
JT 233	6.7	6.0	62.7	5.7	6.3	6.0	6.3	6.0	5.3	5.7	5.3	5.9
PPG-TF 231	6.7	4.7	62.7	4.0	6.3	6.7	5.3	5.7	6.0	5.3	6.0	5.9
PPG-TF 338	7.0	6.3	68.0	5.0	6.0	5.0	5.3	6.3	6.7	5.7	6.3	5.9
COPIOUS TF	8.0	6.0	67.7	5.0	6.7	6.3	5.7	5.3	5.3	5.3	5.7	5.8
PPG-TF 316	7.7	5.7	60.3	5.0	5.3	5.3	5.3	5.7	6.0	6.0	7.0	5.8
PPG-TF 336	7.0	5.0	65.3	4.3	6.0	5.3	5.3	5.7	6.0	5.3	6.7	5.8
RH1	6.7	5.7	58.7	4.7	5.3	5.7	5.7	5.0	6.0	6.0	6.7	5.8
DLFPS-321/3693	7.0	6.3	74.3	5.7	6.0	5.7	5.3	5.3	5.7	6.0	5.7	5.7
K18-NSE	5.3	5.3	56.0	4.3	5.3	5.0	4.3	5.0	6.0	6.7	7.3	5.7

TABLE 19.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT ADELPHIA, NJ 1/
2019 DATA

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

NAME	GENETIC COLOR	GRAY LEAF SPOT	PERCENT ESTABLISHMENT	QUALITY OCT 2018	QUALITY RATINGS							MEAN
					APR	MAY	JUN	JUL	AUG	SEP	OCT	
NAI-TUE	8.3	6.0	65.3	5.3	5.0	5.0	5.7	6.0	6.0	6.0	6.3	5.7
PPG-TF 318	7.0	5.0	62.7	4.0	5.3	5.3	4.7	5.7	6.0	6.3	6.7	5.7
PST-5BYOB	7.3	5.3	64.3	4.3	6.3	6.3	6.0	5.7	5.3	4.7	5.3	5.7
RHF	6.0	5.7	67.0	5.3	5.7	4.7	5.7	6.0	5.0	5.7	7.0	5.7
ATF1768	8.0	5.0	62.0	4.7	6.0	5.7	6.3	5.3	5.3	4.7	6.0	5.6
MOONDANCE GLX	5.3	6.0	67.7	4.7	6.7	6.0	6.0	6.0	4.0	4.3	6.0	5.6
PPG-TF 238	5.7	5.0	58.7	4.0	5.3	5.0	5.0	5.3	6.3	5.7	6.3	5.6
PRO GOLD	5.7	5.7	67.0	5.0	5.3	5.7	6.3	5.3	5.3	5.3	5.7	5.6
5LSS	4.7	5.3	67.0	5.0	5.0	4.7	5.0	6.3	5.7	5.3	6.7	5.5
BY-TF-169	7.0	5.0	53.7	4.3	5.0	5.0	5.7	5.0	5.7	6.0	6.3	5.5
PPG-TF 308	7.3	6.0	68.3	5.3	5.7	5.0	4.7	4.7	6.0	5.7	6.7	5.5
RC4	6.7	5.0	59.3	4.3	5.0	5.0	4.7	5.0	6.0	6.0	7.0	5.5
RHL2	6.7	4.7	56.0	4.0	4.7	4.3	4.7	4.7	6.3	6.7	7.3	5.5
SE53D2	5.7	5.0	58.0	4.7	5.7	6.0	5.7	6.0	4.7	4.7	6.0	5.5
TF456	5.7	5.3	66.0	5.3	5.7	5.7	4.3	5.3	5.3	6.0	6.0	5.5
BULLSEYE LTZ	7.0	5.7	62.7	5.3	5.0	5.0	5.0	5.7	5.0	5.7	6.3	5.4
DLFPS-321/3707	6.7	5.7	58.0	5.3	5.0	5.0	5.3	4.7	5.7	5.7	6.3	5.4
GO-RH20	8.0	5.0	58.3	4.0	5.3	4.3	5.3	5.3	5.7	5.7	6.3	5.4
JT 268	7.7	5.7	59.3	4.7	5.0	5.0	5.0	5.0	5.3	6.0	6.3	5.4
PPG-TF 305	7.3	4.3	60.3	3.3	4.3	4.7	4.7	5.7	6.0	6.0	6.7	5.4
PPG-TF 323	7.3	6.7	64.3	6.0	5.7	5.3	5.0	6.0	5.3	5.0	5.7	5.4
PST-5THM	6.3	6.7	63.3	6.0	5.7	5.3	5.7	5.3	5.3	4.7	5.7	5.4
DLFPS-321/3708	7.3	6.0	60.3	4.3	5.3	5.0	5.3	5.0	5.3	5.3	6.0	5.3
K18-ROE	6.0	4.3	57.0	4.3	5.0	4.7	5.0	4.7	6.0	5.3	6.3	5.3
LIFEGUARD	5.7	5.0	63.7	4.3	5.0	4.7	5.7	5.0	5.0	5.3	6.3	5.3
PPG-TF 320	7.0	5.0	59.3	4.3	5.0	5.0	5.7	5.3	5.3	5.0	6.0	5.3
PST-5TRN	6.7	6.3	61.0	5.3	5.7	5.0	5.7	4.3	5.3	5.0	6.3	5.3
RH3	5.7	5.0	60.3	4.3	5.0	5.0	5.7	5.0	5.3	5.0	6.0	5.3
A-TF31	8.7	5.7	66.3	5.0	6.7	6.0	5.0	3.7	5.3	4.7	5.0	5.2
DLFPS-321/3701	7.7	4.7	56.0	4.0	4.7	4.7	4.3	5.3	5.7	6.0	5.7	5.2
PPG-TF 267	6.7	4.3	57.0	4.0	4.3	5.0	4.7	5.0	6.0	5.7	6.0	5.2
PPG-TF 313	6.3	5.3	62.0	4.7	5.3	4.3	4.7	4.3	5.0	6.0	7.0	5.2
PST-5MINK	7.3	5.3	65.3	4.7	5.3	5.0	5.3	5.0	5.3	5.0	5.3	5.2
DLFPS-TF/3553	7.0	5.0	60.3	4.3	5.0	4.7	5.0	5.3	5.3	5.0	5.7	5.1
PARAMOUNT	6.7	4.7	64.3	3.7	5.0	4.3	5.7	5.0	5.3	5.3	5.3	5.1
PPG-TF 262	7.3	3.7	51.3	3.3	4.0	4.0	5.0	5.7	5.3	6.0	6.0	5.1
PPG-TF 337	7.3	5.3	61.0	4.3	4.7	4.7	4.7	5.7	5.3	5.0	6.0	5.1
AST8218LM	8.7	6.0	59.7	5.7	5.7	5.7	5.3	4.0	4.3	4.3	5.3	5.0
DLFPS-321/3702	7.0	4.0	49.7	3.3	4.3	4.3	4.0	5.0	5.7	5.3	6.0	5.0
HEMI	5.7	4.0	56.3	4.0	5.3	5.0	4.7	5.0	5.0	4.7	5.3	5.0
PADRE 2	7.0	4.0	62.7	4.0	5.7	5.3	4.0	5.7	5.7	4.3	4.7	5.0
PST-5GQ	6.3	4.7	56.0	3.3	4.7	4.3	5.3	4.7	4.3	5.0	6.3	5.0
BAR 9FE MAS	7.7	7.3	67.7	6.7	6.7	5.7	4.0	4.3	4.3	4.7	4.7	4.9
NT-3	7.3	3.7	53.7	3.3	4.0	4.7	4.0	4.7	5.7	5.0	6.3	4.9
PPG-TF 312	5.7	5.0	56.0	4.0	4.3	4.3	4.3	4.7	5.7	5.0	6.0	4.9

TABLE 19.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT ADELPHIA, NJ 1/
2019 DATA

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

NAME	GENETIC COLOR	GRAY LEAF SPOT	PERCENT ESTABLISHMENT	QUALITY OCT 2018	QUALITY RATINGS							MEAN
					APR	MAY	JUN	JUL	AUG	SEP	OCT	
3B2	7.3	4.3	55.3	3.7	4.7	4.3	5.0	5.0	5.0	4.3	5.0	4.8
3N1	7.0	4.7	57.7	4.3	5.7	5.3	4.7	5.3	4.7	4.0	3.7	4.8
BAR-FA8230	6.3	5.3	61.0	4.3	5.0	5.0	5.3	4.0	4.3	4.7	5.0	4.8
K18-WB1	6.7	4.3	52.7	3.7	4.7	4.0	4.0	4.7	5.0	5.0	6.3	4.8
PALOMAR	6.7	4.3	67.0	3.7	6.3	5.3	5.3	4.7	4.0	4.0	3.7	4.8
AST8118LM	8.7	5.7	68.0	5.7	6.7	5.7	5.0	3.7	4.3	3.3	4.3	4.7
BRAVO 2	7.3	3.7	58.7	3.0	5.0	5.0	5.3	4.3	4.7	4.3	4.3	4.7
BULLSEYE	7.0	4.3	53.7	4.3	5.3	5.0	4.3	4.3	4.3	4.3	5.3	4.7
DLFPS-321/3679	8.7	4.3	58.7	4.3	3.7	4.0	4.0	4.7	5.0	5.7	6.0	4.7
DLFPS-321/3706	6.3	4.3	49.7	3.7	4.3	3.7	4.3	4.7	5.3	5.0	5.7	4.7
LBF	8.3	3.7	56.3	3.7	5.3	4.7	4.3	4.3	4.0	4.7	5.3	4.7
NATURALLY GREEN	8.0	3.0	66.0	2.7	5.0	5.0	4.3	4.3	4.3	4.7	4.7	4.6
SESCR1	5.7	4.0	47.0	3.0	4.3	3.7	3.7	4.3	4.7	5.3	6.3	4.6
SETFM3	7.7	4.7	52.7	4.0	5.3	4.7	4.0	3.7	4.7	4.3	5.3	4.6
BGR-TF3	8.0	4.0	60.3	4.0	5.3	5.3	4.7	4.3	4.0	4.0	4.0	4.5
BIRMINGHAM	7.0	5.0	59.7	4.3	5.0	4.0	5.3	4.3	4.3	3.7	4.7	4.5
PST-5E6	6.3	4.3	52.0	4.3	4.3	4.3	4.7	3.7	4.3	4.7	5.3	4.5
RAPTOR III	6.7	4.3	58.3	3.7	4.3	3.7	4.7	5.0	4.0	4.7	5.3	4.5
SE5STAR	5.7	4.7	54.3	4.0	4.7	4.7	4.0	4.7	4.7	4.0	4.7	4.5
TANGO	7.3	4.0	52.7	3.7	4.3	4.7	4.3	5.0	4.3	4.0	5.0	4.5
PST-5SQB	6.3	5.0	61.7	4.3	5.0	4.0	4.7	4.3	3.3	4.0	5.3	4.4
DLFPS-321/3703	6.7	4.3	51.7	4.0	3.7	4.0	4.3	4.0	4.7	4.7	5.0	4.3
PST-5DC24	7.7	4.7	52.0	3.7	4.7	5.0	4.3	4.0	4.0	3.3	4.3	4.2
RAD-TF105	8.3	4.0	50.0	3.3	4.3	3.3	3.7	3.7	5.0	4.3	5.0	4.2
ATF2116	8.3	3.7	50.0	3.0	4.0	4.0	4.0	4.0	4.3	4.7	4.0	4.1
BANDIT	7.7	4.0	59.7	3.3	4.7	4.7	3.7	3.7	3.7	4.0	4.3	4.1
FAYETTE	8.0	4.0	54.7	4.0	4.7	4.0	3.3	4.0	4.3	4.3	4.3	4.1
GO-AOMK	8.0	5.0	48.7	4.3	4.3	4.0	4.3	4.3	4.3	3.7	4.0	4.1
NAI-FQZ-17	7.3	3.7	56.7	3.0	4.0	4.3	4.7	4.7	3.7	3.3	4.0	4.1
FIREHAWK SLT	6.3	3.3	49.3	3.3	4.0	3.3	3.3	4.7	4.0	4.3	4.7	4.0
PST-5DZM	7.0	3.7	46.7	2.7	3.3	3.3	3.7	4.0	4.0	4.0	5.3	4.0
ESCALADE	5.3	3.0	54.3	2.3	4.0	3.7	4.3	4.3	3.7	4.0	3.3	3.9
JT 517	7.7	3.3	52.0	3.3	4.0	4.0	3.7	3.3	4.0	3.7	4.3	3.9
SETF104	6.7	3.0	48.7	3.0	4.0	3.0	4.0	3.3	4.3	4.3	4.3	3.9
GRAND PRIX (FC15-01P)	8.0	3.0	51.0	2.7	4.0	3.7	3.7	3.7	3.7	3.7	4.3	3.8
SETFM2	9.0	4.0	51.0	3.0	4.3	4.3	3.7	3.0	4.0	3.3	4.0	3.8
OG-WALK	7.3	3.7	55.0	3.0	4.7	4.0	4.0	3.7	2.7	2.7	3.7	3.6
ESTRENA	6.3	2.3	51.7	2.0	3.7	3.0	3.3	3.7	3.7	3.7	3.3	3.5
BAR FA 8228	6.0	2.7	51.0	1.7	3.3	3.3	2.7	3.0	3.0	3.0	3.3	3.1
TURBO SS	8.7	3.0	53.0	2.0	4.3	3.0	2.0	2.7	3.0	2.7	4.3	3.1
RAD-TF131	8.7	2.0	44.3	1.7	3.7	2.7	2.3	2.0	3.0	3.0	3.7	2.9
KENTUCKY-31	1.0	2.0	57.7	1.0	1.0	1.0	1.7	1.3	1.0	1.0	2.0	1.3
LSD VALUE	1.5	1.4	14.2	1.4	1.5	1.5	1.5	1.6	1.6	1.4	1.6	1.0
C.V. (%)	13.1	17.5	12.6	20.0	16.6	18.3	18.3	19.2	18.0	17.3	17.0	12.6

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

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

TABLE 20.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT STILLWATER, OK 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	QUALITY RATINGS										MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OCT	NOV	
ATF2116	8.0	5	5.3	5.3	5.7	5.3	7.0	7.7	6.3	5.0	7.0	7.0	6.2
BAR-FA8230	8.0	5	5.0	5.3	6.0	6.0	7.0	7.0	6.0	5.0	6.7	6.7	6.1
MOONDANCE GLX	8.0	5	5.0	5.0	6.7	6.7	6.3	7.0	6.7	5.0	6.3	6.3	6.1
PPG-TF 315	8.0	5	5.0	5.3	6.0	6.7	7.0	7.7	6.7	4.0	5.7	5.7	6.0
PST-5GLBS	8.0	5	5.0	5.7	5.3	6.0	7.0	7.0	7.0	4.0	6.7	6.7	6.0
DEGAS (LTP-TF-111)	8.0	5	5.3	5.7	6.0	6.3	7.0	8.0	7.0	3.3	5.3	5.3	5.9
NAI-ST5	8.0	5	5.3	6.0	6.3	6.3	7.0	7.7	6.3	3.3	5.3	5.3	5.9
PPG-TF 255	8.0	5	5.0	5.3	5.3	5.3	7.0	7.3	6.3	5.0	6.0	6.0	5.9
PST-5TRN	8.0	5	5.3	5.3	5.7	5.7	7.0	7.3	6.7	5.3	5.3	5.3	5.9
3B2	8.0	5	5.0	5.0	6.0	5.3	6.3	6.7	7.3	4.7	5.7	5.7	5.8
BIRMINGHAM	8.0	5	5.7	5.3	6.3	6.7	7.0	7.3	6.3	4.3	4.3	4.3	5.8
DLFPS-321/3679	8.0	5	5.0	5.7	5.3	5.7	7.0	7.3	6.3	4.0	6.0	6.0	5.8
DLFPS-321/3708	8.0	5	5.3	5.7	5.7	6.0	7.0	7.3	6.7	4.3	5.0	5.0	5.8
GLX ACED (PST-5DART)	8.0	5	4.7	5.0	5.7	5.7	7.0	7.0	6.7	4.0	6.0	6.0	5.8
LIFEGUARD	8.0	5	5.0	5.7	5.3	5.7	7.0	7.0	6.7	4.0	6.0	6.0	5.8
PPG-TF 238	7.7	5	5.0	5.0	5.3	5.7	7.0	6.3	6.3	4.3	6.3	6.3	5.8
PPG-TF 249	8.0	5	5.0	5.7	6.0	6.7	7.0	7.3	7.0	3.7	5.0	5.0	5.8
PPG-TF 320	8.0	5	5.0	5.7	5.7	5.3	7.0	8.0	6.3	4.7	5.3	5.3	5.8
PPG-TF 338	8.0	5	5.0	5.3	5.3	5.7	7.0	7.3	7.0	4.0	5.7	5.7	5.8
PST-5BYOB	8.0	5	5.3	5.7	5.3	5.3	7.0	7.0	6.0	4.7	5.7	5.7	5.8
PST-5MCMO	8.0	5	5.0	5.3	5.0	5.3	7.0	7.0	6.3	4.3	6.3	6.3	5.8
RC4	8.0	5	5.0	5.3	5.7	6.0	7.0	7.7	7.0	4.7	5.0	5.0	5.8
SE53D2	8.0	5	5.0	5.3	5.0	5.3	7.0	7.3	6.3	4.7	6.0	6.0	5.8
AST8218LM	8.0	5	5.0	5.0	5.3	5.0	7.0	7.3	6.3	4.0	6.0	6.0	5.7
ATF1768	7.7	5	5.0	5.7	5.0	5.0	7.0	7.0	6.7	4.3	5.7	5.7	5.7
DLFPS-TF/3552	8.0	5	5.0	5.3	5.7	5.3	7.0	7.7	6.7	3.7	5.3	5.3	5.7
FAYETTE	8.0	5	5.3	5.7	6.0	6.0	7.0	7.3	6.7	3.7	4.7	4.7	5.7
K18-ROE	8.0	5	5.0	5.7	6.0	5.7	7.0	7.3	6.7	4.3	4.7	4.7	5.7
K18-WB1	8.0	5	5.3	5.3	5.7	5.7	7.0	8.0	6.3	4.0	4.7	4.7	5.7
PPG-TF 305	8.0	5	5.0	5.3	5.7	6.0	7.0	6.7	6.7	4.0	5.3	5.3	5.7
PPG-TF 323	8.0	5	5.0	5.3	6.0	6.3	7.0	7.7	6.7	3.7	4.7	4.7	5.7
PST-5DC24	8.0	5	5.0	5.3	5.0	4.7	7.0	7.7	6.3	4.3	5.7	5.7	5.7
PST-5GQ	8.0	5	5.0	5.0	5.3	6.3	7.0	6.7	6.7	3.7	5.7	5.7	5.7
PST-5SQB	8.0	5	5.3	5.7	5.7	6.7	7.0	7.0	6.7	3.7	4.7	4.7	5.7
3N1	8.0	5	5.0	5.3	5.7	5.7	7.0	7.3	7.0	3.7	4.7	4.7	5.6
BAR TF 134	8.0	5	6.0	5.7	6.0	6.0	7.0	7.3	6.0	3.0	4.3	4.3	5.6
BULLSEYE LTZ	8.0	5	5.0	5.7	5.0	5.7	7.0	7.3	6.3	4.0	5.0	5.0	5.6
DLFPS-321/3699	8.0	5	5.0	5.3	5.0	5.0	7.0	7.3	7.0	3.7	5.3	5.3	5.6
DLFPS-321/3702	8.0	5	5.3	5.3	5.7	5.3	7.0	7.7	6.3	3.3	5.0	5.0	5.6
DLFPS-321/3705	8.0	5	5.0	5.0	5.7	5.3	6.7	7.7	7.0	3.3	5.0	5.0	5.6
ESCALADE	8.0	5	5.7	5.3	5.7	6.0	7.0	7.7	6.3	3.0	4.7	4.7	5.6
GO-AOMK	8.0	5	5.0	5.0	5.0	5.7	7.0	7.7	6.3	3.3	5.7	5.7	5.6
NAI-3N2	8.0	5	5.3	6.0	5.3	6.3	7.0	7.7	6.3	3.3	4.3	4.3	5.6
NAI-TUE	8.0	5	5.7	5.3	6.0	6.3	6.7	7.7	6.7	4.0	4.0	4.0	5.6
PPG-TF 244	8.0	5	5.0	4.7	5.0	5.7	7.0	7.3	7.0	4.3	5.0	5.0	5.6

TABLE 20.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT STILLWATER, OK 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	QUALITY RATINGS										MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OCT	NOV	
PPG-TF 254	8.0	5	5.3	5.3	5.7	5.7	7.0	7.7	7.0	3.7	4.3	4.3	5.6
PPG-TF 267	8.0	5	5.3	5.3	5.3	6.7	7.0	7.7	6.3	2.7	4.7	4.7	5.6
PST-5E6	7.3	5	5.0	4.7	5.3	4.7	7.0	6.7	6.3	4.3	6.0	6.0	5.6
RH1	8.0	5	5.0	5.7	5.3	6.0	7.0	7.7	6.3	3.7	4.7	4.7	5.6
RH3	8.0	5	5.0	5.7	5.3	6.0	7.0	8.0	6.3	3.7	4.3	4.3	5.6
RHF	8.0	5	5.3	5.7	6.3	6.7	7.0	8.0	6.3	3.3	3.7	3.7	5.6
SETFM3	8.0	5	5.0	5.3	6.0	6.3	7.0	7.7	6.7	3.0	4.7	4.7	5.6
BGR-TF3	8.0	5	5.0	5.7	5.3	5.3	7.0	7.3	6.7	3.3	4.7	4.7	5.5
BY-TF-169	8.0	5	5.0	5.7	5.7	6.3	7.0	7.3	6.3	3.3	4.0	4.0	5.5
DLFPS-321/3695	8.0	5	5.0	5.0	5.3	5.7	7.0	7.3	6.0	4.0	4.7	4.7	5.5
DLFPS-TF/3550	8.0	5	5.0	5.7	5.7	5.7	7.0	7.3	6.0	4.0	4.3	4.3	5.5
DLFPS-TF/3553	8.0	5	5.0	5.3	5.7	5.0	7.0	7.7	5.7	3.0	5.3	5.3	5.5
GO-RH20	8.0	5	5.0	5.3	5.3	6.0	7.0	7.3	7.0	3.0	4.7	4.7	5.5
GRAND PRIX (FC15-01P)	8.0	5	5.0	5.3	6.0	6.0	7.0	7.0	6.3	3.7	4.3	4.3	5.5
JT 233	8.0	5	5.3	6.0	5.0	5.7	7.0	7.7	6.7	3.3	4.3	4.3	5.5
JT 268	8.0	5	5.0	5.0	5.7	5.7	7.0	7.7	6.7	3.3	4.7	4.7	5.5
OKEEFE (LTP-TF-122)	8.0	5	5.3	5.7	6.0	6.0	7.0	7.3	6.0	3.3	4.3	4.3	5.5
NAI-ROS4	8.0	5	5.3	5.3	5.7	5.3	7.0	6.7	6.0	3.7	5.0	5.0	5.5
PPG-TF 231	8.0	5	5.0	5.7	5.7	7.0	7.0	7.7	6.3	2.7	4.0	4.0	5.5
PPG-TF 257	8.0	5	5.0	5.3	6.0	6.0	7.0	7.3	6.0	3.7	4.3	4.3	5.5
PPG-TF 306	8.0	5	5.3	5.7	5.7	6.3	6.7	8.0	6.3	2.7	4.0	4.0	5.5
PPG-TF 308	8.0	5	5.7	5.3	5.7	6.3	7.0	8.0	6.7	2.7	4.0	4.0	5.5
PPG-TF 337	8.0	5	5.0	5.7	5.3	6.0	7.0	7.3	6.7	3.0	4.3	4.3	5.5
PST-5DZM	8.0	5	5.0	4.0	5.3	5.3	7.0	7.0	6.0	3.7	5.7	5.7	5.5
PST-5THM	8.0	5	4.7	4.7	5.0	4.7	7.0	6.7	6.3	4.7	5.7	5.7	5.5
SESCR1	8.0	5	5.0	5.3	5.7	6.0	6.7	7.7	6.7	3.0	4.3	4.3	5.5
TD2	8.0	5	4.7	5.3	5.7	5.0	7.0	7.3	6.3	4.0	5.0	5.0	5.5
TF445	8.0	5	5.0	5.7	5.7	5.7	7.0	7.0	6.7	3.3	4.3	4.3	5.5
TF456	8.0	5	5.3	5.3	5.7	5.3	6.7	7.3	6.7	3.7	4.7	4.7	5.5
ZRC1	8.0	5	5.0	6.0	5.7	6.0	7.0	8.0	6.3	3.3	3.7	3.7	5.5
AST8118LM	8.0	5	5.7	4.7	5.7	5.3	7.0	7.7	6.0	3.7	4.3	4.3	5.4
BANDIT	8.0	5	5.0	5.3	5.0	5.0	7.0	7.3	6.3	3.3	5.0	5.0	5.4
BAR 9FE MAS	8.0	5	5.0	4.7	5.3	5.0	7.0	7.3	6.0	3.7	5.0	5.0	5.4
BRAVO 2	8.0	5	5.0	4.7	5.3	5.7	7.0	7.3	6.7	4.0	4.3	4.3	5.4
COL-TF-148	8.0	5	5.0	5.3	5.3	6.0	7.0	7.0	6.0	2.7	4.7	4.7	5.4
DLFPS-321/3693	8.0	5	5.0	4.3	5.7	5.7	7.0	8.0	6.3	3.7	4.0	4.0	5.4
DLFPS-321/3696	8.0	5	5.0	5.0	5.7	5.0	7.0	7.0	6.7	3.7	4.7	4.7	5.4
DLFPS-321/3701	8.0	5	5.0	5.3	5.7	5.7	7.0	7.0	6.3	3.3	4.3	4.3	5.4
DRAGSTER	8.0	5	4.7	5.0	5.3	5.7	7.0	7.7	6.7	3.0	4.7	4.7	5.4
BONFIRE (JS DTT)	8.0	5	5.0	5.0	5.3	5.3	7.0	7.7	6.0	3.7	4.7	4.7	5.4
JT 517	8.0	5	5.0	5.3	5.3	5.0	7.0	7.7	6.0	3.0	4.7	4.7	5.4
K18-RS6	8.0	5	5.0	5.0	5.3	5.7	7.0	6.7	6.0	3.7	4.7	4.7	5.4
LBF	8.0	5	5.3	5.3	5.3	5.3	7.0	7.0	6.7	3.7	4.0	4.0	5.4
NATURALLY GREEN	8.0	5	5.3	5.7	6.0	6.0	7.0	7.0	6.7	2.7	3.7	3.7	5.4
OG-WALK	8.0	5	5.7	5.7	6.0	6.0	7.0	7.3	5.3	3.3	3.7	3.7	5.4

TABLE 20.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT STILLWATER, OK 1/
2019 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	QUALITY RATINGS										MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OCT	NOV	
PALOMAR	8.0	5	5.3	5.3	6.3	6.7	7.0	7.3	5.3	3.0	3.7	3.7	5.4
PARAMOUNT	8.0	5	5.0	5.0	5.3	5.3	7.0	7.3	6.3	4.3	4.0	4.0	5.4
PPG-TF 316	8.0	5	5.0	5.3	5.3	6.0	7.0	8.0	6.3	3.0	4.0	4.0	5.4
PPG-TF 318	8.0	5	5.0	5.3	5.7	5.7	7.0	7.3	6.3	3.3	4.3	4.3	5.4
RDC	8.0	5	5.7	5.3	6.0	5.7	7.0	7.7	6.0	3.0	3.7	3.7	5.4
SE5STAR	8.0	5	4.7	5.3	5.3	6.0	7.0	6.7	6.3	3.3	4.7	4.7	5.4
TMT1	8.0	5	4.7	6.0	5.0	4.7	7.0	6.7	6.7	3.7	5.0	5.0	5.4
AH1	8.0	5	5.0	4.7	5.7	5.0	7.0	7.0	6.3	3.7	4.3	4.3	5.3
BULLSEYE	8.0	5	5.0	5.3	5.7	6.3	7.0	7.7	6.0	3.0	3.7	3.7	5.3
GRANDE 3	8.0	5	5.0	5.3	5.7	5.7	7.0	7.3	6.3	2.3	4.0	4.0	5.3
PADRE 2	8.0	5	5.3	5.3	5.3	6.3	7.0	7.3	6.3	3.3	3.3	3.3	5.3
PRO GOLD	8.0	5	5.0	4.7	5.3	6.0	6.7	7.7	5.7	3.7	4.3	4.3	5.3
RAPTOR III	8.0	5	5.0	4.7	5.7	6.0	7.0	7.7	6.3	3.3	3.7	3.7	5.3
RS1	8.0	5	5.3	4.7	5.3	6.3	7.0	7.7	6.3	2.7	3.7	3.7	5.3
SETFM2	8.0	5	5.3	5.3	5.7	6.0	7.0	7.0	6.0	2.7	4.0	4.0	5.3
AH2	8.0	5	5.0	5.0	5.3	5.3	7.0	7.3	5.7	3.0	4.3	4.3	5.2
BAR FA 8228	8.0	5	5.3	6.0	5.0	6.0	7.0	6.7	5.7	2.7	3.7	3.7	5.2
DLFPS-321/3706	8.0	5	5.3	5.7	5.7	6.0	7.0	7.7	6.0	2.3	3.3	3.3	5.2
NAI-FQZ-17	8.0	5	5.0	5.0	4.7	5.7	7.0	7.0	5.3	4.0	4.0	4.0	5.2
PPG-TF 336	8.0	5	5.0	5.3	5.3	5.7	7.0	7.0	6.7	3.0	3.7	3.7	5.2
TANGO	8.0	5	5.0	5.0	5.0	6.0	7.0	7.3	5.3	3.7	4.0	4.0	5.2
DLFPS-321/3703	8.0	5	5.0	4.7	5.7	5.7	7.0	7.0	6.7	2.7	3.3	3.3	5.1
PPG-TF 262	8.0	5	5.0	5.0	5.3	5.7	7.0	7.3	5.3	2.7	3.7	3.7	5.1
PPG-TF 312	8.0	5	5.0	5.7	5.7	6.0	7.0	7.7	5.7	2.7	3.0	3.0	5.1
PPG-TF 313	8.0	5	5.0	4.3	5.7	6.0	7.0	7.3	6.0	3.0	3.3	3.3	5.1
PST-5MINK	8.0	5	5.0	5.7	5.7	5.7	7.0	7.0	5.3	3.0	3.3	3.3	5.1
5LSS	7.3	5	4.7	5.3	5.3	4.3	6.0	6.0	6.0	4.0	4.3	4.3	5.0
COPIOUS TF	8.0	5	5.0	4.7	5.7	5.7	7.0	7.0	5.7	2.3	3.3	3.3	5.0
DLFPS-321/3694	8.0	5	5.3	5.3	5.3	5.3	7.0	7.7	6.7	2.3	2.7	2.7	5.0
DLFPS-321/3707	8.0	5	5.0	5.0	5.7	6.0	7.0	6.3	5.7	3.0	3.3	3.3	5.0
ESTRENA	8.0	5	4.7	4.7	6.3	5.0	7.0	7.3	5.7	3.0	3.3	3.3	5.0
RHL2	8.0	5	5.7	5.0	5.7	6.3	7.0	7.7	6.0	2.0	2.3	2.3	5.0
SETF104	8.0	5	5.0	5.3	5.7	5.0	7.0	7.0	5.0	2.3	3.7	3.7	5.0
A-TF31	8.0	5	5.0	5.0	5.3	5.7	7.0	7.3	5.3	2.0	3.3	3.3	4.9
FIREHAWK SLT	8.0	5	5.0	5.3	5.7	6.0	7.0	7.7	5.7	2.3	2.3	2.3	4.9
HEMI	8.0	5	5.7	5.7	5.3	5.3	7.0	7.7	6.0	2.0	2.0	2.0	4.9
K18-NSE	8.0	5	4.7	4.3	5.7	4.7	7.0	6.3	6.3	3.0	3.7	3.7	4.9
NT-3	8.0	5	5.3	5.3	5.3	5.7	7.0	7.3	5.7	2.0	2.3	2.3	4.8
RAD-TF105	8.0	5	5.3	4.0	5.3	4.7	7.0	7.0	6.0	2.3	3.0	3.0	4.8
RAD-TF131	8.0	5	5.3	5.0	6.0	6.0	7.0	7.3	3.7	1.7	3.0	3.0	4.8
TURBO SS	7.7	5	5.0	4.7	5.0	5.3	7.0	7.7	4.7	1.7	2.7	2.7	4.6
KENTUCKY-31	4.0	4	5.0	5.3	6.0	4.3	3.3	5.0	4.0	3.7	3.7	3.7	4.4
LSD VALUE	0.2	0	1.1	1.9	3.3	2.7	0.4	1.3	1.9	1.4	2.2	2.2	0.6
C.V. (%)	2.1	0	7.3	11.6	11.4	14.4	3.5	8.1	12.3	22.9	25.2	25.2	5.9

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

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

TABLE 20.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT STILLWATER, OK 1/
2019 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER		BROWN PATCH	QUALITY NOV 2018	PERCENT ESTABLISHMENT		
	SPRING	SUMMER	FALL	SPRING	SUMMER			2 WEEKS	3 WEEKS	4 WEEKS
ATF2116	6.0	6.0	6.0	91.7	66.7	6.7	5.3	51.7	63.3	70.0
BAR-FA8230	6.0	6.3	5.0	91.7	73.3	6.0	5.3	36.7	50.0	70.0
MOONDANCE GLX	5.7	7.0	5.0	93.3	70.0	7.3	5.0	58.3	67.7	80.0
PPG-TF 315	6.0	7.0	5.7	95.0	73.3	7.3	5.3	17.7	36.7	70.0
PST-5GLBS	6.7	6.7	7.0	95.0	70.0	7.3	5.7	45.0	58.3	66.7
DEGAS (LTP-TF-111)	6.7	6.3	4.0	90.0	60.0	6.7	5.7	21.7	50.0	71.7
NAI-ST5	6.3	6.7	5.3	91.7	60.0	6.3	6.0	23.3	33.3	63.3
PPG-TF 255	6.3	6.0	5.0	91.7	70.0	6.0	5.3	20.0	46.7	70.0
PST-5TRN	5.7	6.7	4.7	93.3	76.7	6.7	5.3	28.3	41.7	68.3
3B2	5.3	7.0	4.3	89.3	73.3	7.3	5.0	51.7	65.0	80.0
BIRMINGHAM	6.7	6.7	2.3	93.3	66.7	6.7	5.3	31.7	38.3	63.3
DLFPS-321/3679	6.7	7.0	3.3	88.3	66.7	7.3	5.7	33.3	55.0	66.7
DLFPS-321/3708	6.0	7.3	5.7	93.3	73.3	6.3	5.7	41.7	55.0	70.0
GLX ACED (PST-5DART)	6.0	6.7	6.0	93.3	70.0	6.3	5.0	40.0	55.0	70.0
LIFEGUARD	5.7	6.7	5.7	91.7	73.3	6.3	5.7	41.7	61.7	75.0
PPG-TF 238	5.3	6.7	5.3	86.7	66.7	7.7	5.0	28.3	41.7	66.7
PPG-TF 249	6.0	7.0	5.3	95.0	73.3	6.7	5.7	25.0	40.0	75.0
PPG-TF 320	6.3	6.7	3.3	95.0	70.0	6.7	5.7	32.0	48.3	70.0
PPG-TF 338	6.0	7.0	4.0	91.7	60.0	7.0	5.3	36.3	59.0	73.3
PST-5BYOB	6.3	6.7	5.7	93.3	63.3	6.7	5.7	30.0	55.0	73.3
PST-5MCMO	5.7	6.0	5.3	88.3	63.3	6.7	5.3	45.0	60.0	70.0
RC4	6.0	7.3	3.7	86.7	73.3	7.3	5.3	46.7	60.3	70.0
SE53D2	5.7	6.0	5.7	91.7	75.0	7.0	5.3	41.7	55.0	70.0
AST8218LM	5.0	6.3	4.7	88.3	70.0	6.7	5.0	56.7	69.3	80.0
ATF1768	6.3	6.7	4.0	91.7	58.3	7.0	5.7	31.7	38.3	66.7
DLFPS-TF/3552	6.0	7.0	4.0	90.0	66.7	7.3	5.3	53.3	66.7	61.7
FAYETTE	6.0	7.0	2.7	95.0	60.0	6.3	5.7	25.0	40.0	70.0
K18-ROE	6.0	6.7	4.7	95.0	66.7	7.0	5.7	31.7	51.7	70.0
K18-WB1	6.0	6.7	3.3	95.0	70.0	6.0	5.3	40.0	55.0	76.7
PPG-TF 305	6.0	6.7	3.7	93.3	66.7	7.3	5.3	36.3	55.7	75.0
PPG-TF 323	6.3	6.7	3.0	95.0	70.0	7.3	5.3	33.3	51.7	70.0
PST-5DC24	5.3	6.0	3.7	95.0	63.3	7.0	5.3	51.7	63.3	66.7
PST-5GQ	6.0	6.0	5.3	90.0	56.7	6.7	5.0	33.3	54.0	55.0
PST-5SQB	6.3	7.0	4.3	93.3	66.7	6.3	5.7	26.7	45.0	75.0
3N1	5.7	6.0	5.0	95.0	70.0	6.3	5.3	41.7	55.0	73.3
BAR TF 134	6.0	6.3	3.3	93.3	73.3	6.7	5.7	50.0	65.0	63.3
BULLSEYE LTZ	7.0	6.7	3.0	95.0	70.0	6.3	5.7	46.7	60.0	70.0
DLFPS-321/3699	6.3	6.3	3.0	91.7	66.7	6.3	5.3	36.7	50.0	76.7
DLFPS-321/3702	5.3	7.3	3.7	91.7	66.7	6.3	5.3	46.7	60.3	56.7
DLFPS-321/3705	6.0	6.7	6.3	93.3	73.3	6.7	5.0	58.3	65.0	63.3
ESCALADE	6.3	5.7	4.7	93.3	60.0	6.0	5.3	45.0	60.0	75.0
GO-AOMK	6.3	7.0	5.7	95.0	63.3	6.3	5.0	35.0	54.3	70.0
NAI-3N2	6.3	6.0	5.7	93.3	51.7	6.0	6.0	53.3	66.7	75.0
NAI-TUE	6.0	7.3	4.3	93.3	70.0	7.0	5.3	33.3	55.0	63.3
PPG-TF 244	6.0	6.7	6.3	93.3	73.3	7.0	4.7	31.7	50.0	80.0

TABLE 20.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT STILLWATER, OK 1/
2019 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER		BROWN PATCH	QUALITY NOV 2018	PERCENT ESTABLISHMENT		
	SPRING	SUMMER	FALL	SPRING	SUMMER			2 WEEKS	3 WEEKS	4 WEEKS
PPG-TF 254	6.0	7.0	3.0	95.0	68.3	7.3	5.3	33.3	54.0	66.7
PPG-TF 267	6.0	6.0	3.3	93.3	66.7	6.3	5.3	51.7	65.0	85.0
PST-5E6	5.7	6.3	5.0	85.0	66.7	6.7	4.7	21.7	40.0	76.7
RH1	6.7	6.0	3.3	93.3	70.0	6.3	5.7	26.7	48.3	85.0
RH3	6.0	6.3	3.3	95.0	60.0	6.3	5.7	21.7	41.7	86.7
RHF	6.7	6.7	3.7	95.0	48.3	7.0	5.7	23.3	41.7	66.7
SETFM3	6.3	6.0	4.0	93.3	63.3	6.3	5.3	50.0	65.0	78.3
BGR-TF3	6.0	5.7	3.7	91.7	60.0	5.3	5.7	26.7	49.0	61.7
BY-TF-169	6.7	6.7	2.0	95.0	70.0	7.0	5.7	36.7	55.0	71.7
DLFPS-321/3695	6.0	6.3	2.7	93.3	73.3	6.0	5.0	45.0	58.3	68.3
DLFPS-TF/3550	5.7	7.3	2.3	91.7	68.3	6.7	5.7	35.0	54.3	63.3
DLFPS-TF/3553	6.7	6.0	3.7	91.7	46.7	5.7	5.3	58.3	65.0	63.3
GO-RH20	6.3	6.7	3.3	91.7	56.7	7.0	5.3	26.7	49.0	66.7
GRAND PRIX (FC15-01P)	6.0	6.3	3.7	93.3	63.3	6.0	5.3	30.0	55.0	70.0
JT 233	6.0	7.3	2.0	95.0	70.0	7.3	6.0	25.0	48.3	81.7
JT 268	6.7	6.0	3.7	93.3	53.3	6.3	5.0	33.3	50.0	88.3
OKEEFE (LTP-TF-122)	6.0	6.7	2.7	91.7	55.0	6.3	5.7	22.7	41.7	80.0
NAI-ROS4	6.3	6.7	5.3	94.3	63.3	7.0	5.3	58.3	65.0	73.3
PPG-TF 231	6.7	6.3	3.3	95.0	60.0	6.7	5.7	58.3	67.7	80.0
PPG-TF 257	6.0	7.0	2.7	95.7	61.7	6.7	5.3	56.7	69.3	71.7
PPG-TF 306	6.3	6.7	3.3	95.0	63.3	7.0	5.7	26.7	45.0	66.7
PPG-TF 308	6.7	6.7	3.0	95.7	60.0	6.7	5.3	45.0	60.0	73.3
PPG-TF 337	6.7	6.3	3.3	95.0	56.7	6.3	5.7	41.7	61.7	73.3
PST-5DZM	5.0	6.3	4.7	88.3	63.3	6.7	4.0	31.7	45.0	60.0
PST-5THM	5.0	5.7	4.7	90.0	70.0	7.0	4.7	17.7	36.7	71.7
SESCR1	5.7	5.7	5.0	93.3	70.0	6.7	5.3	36.7	50.0	68.3
TD2	5.3	6.0	3.3	95.0	68.3	7.3	5.3	41.7	55.0	73.3
TF445	6.0	6.3	3.3	88.3	70.0	7.3	5.7	21.7	40.0	63.3
TF456	6.0	6.0	4.0	91.7	66.7	7.3	5.3	17.7	36.7	60.0
ZRC1	6.3	5.7	2.3	91.7	66.7	7.3	6.0	57.3	67.7	76.7
AST8118LM	6.7	6.7	3.0	95.0	66.7	6.0	4.7	46.7	60.3	75.0
BANDIT	6.3	6.3	6.0	93.3	60.0	6.3	5.3	30.0	51.7	73.3
BAR 9FE MAS	5.7	6.3	3.3	90.0	63.3	6.0	4.7	35.0	51.7	76.7
BRAVO 2	5.3	6.7	6.3	90.0	71.7	7.0	4.7	35.0	54.3	70.0
COL-TF-148	5.0	6.3	4.3	93.3	61.7	6.0	5.3	26.7	48.3	80.0
DLFPS-321/3693	6.0	7.0	3.0	93.3	68.3	6.3	4.3	26.7	45.0	63.3
DLFPS-321/3696	5.0	6.3	2.7	90.0	66.7	6.3	5.0	50.0	65.0	56.7
DLFPS-321/3701	5.7	6.7	4.0	93.3	63.3	7.0	5.3	15.0	35.0	75.0
DRAGSTER	6.3	6.0	2.7	95.0	53.3	6.7	5.0	30.0	51.7	70.0
BONFIRE (JS DTT)	5.7	6.3	3.3	93.3	66.7	6.7	5.0	51.7	65.0	60.0
JT 517	6.3	6.3	2.7	93.3	70.0	6.0	5.3	50.0	65.0	61.7
K18-RS6	6.0	6.0	3.3	93.3	73.3	6.3	5.0	35.0	51.7	71.7
LBF	5.7	6.0	2.7	93.3	60.0	5.3	5.3	23.3	33.3	75.0
NATURALLY GREEN	6.3	6.0	2.7	93.3	53.3	4.7	5.7	57.3	67.7	70.0
OG-WALK	6.3	6.3	3.3	93.3	68.3	6.3	5.7	20.0	46.7	66.7

TABLE 20.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT STILLWATER, OK 1/
2019 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER		BROWN PATCH	QUALITY NOV 2018	PERCENT ESTABLISHMENT		
	SPRING	SUMMER	FALL	SPRING	SUMMER			2 WEEKS	3 WEEKS	4 WEEKS
PALOMAR	6.0	6.7	3.0	95.0	60.0	6.0	5.3	33.3	54.0	73.3
PARAMOUNT	6.0	6.7	3.0	92.3	60.0	6.7	5.0	58.3	67.7	63.3
PPG-TF 316	6.3	6.7	4.3	96.0	56.7	6.3	5.3	15.0	35.0	76.7
PPG-TF 318	6.3	6.7	3.3	95.0	65.0	6.0	5.3	31.7	45.0	63.3
RDC	6.3	5.7	3.7	90.0	53.3	6.0	5.3	25.0	41.7	66.7
SE5STAR	6.3	6.7	5.7	93.3	63.3	6.3	5.3	50.0	65.0	75.0
TMT1	5.3	5.7	3.0	91.7	66.7	6.7	6.0	40.0	55.0	70.0
AH1	5.0	6.3	2.7	91.7	66.7	7.7	4.7	28.3	50.0	73.3
BULLSEYE	5.7	6.3	2.3	95.0	41.7	5.0	5.3	45.0	58.3	70.0
GRANDE 3	6.3	6.0	2.0	93.3	50.0	5.3	5.3	28.3	50.0	68.3
PADRE 2	6.0	6.7	6.3	95.0	68.3	6.3	5.3	31.7	38.3	70.0
PRO GOLD	5.7	6.7	3.0	95.0	66.7	6.7	4.7	20.0	46.7	71.7
RAPTOR III	6.7	6.7	3.0	91.7	66.7	5.7	4.7	26.7	48.3	70.0
RS1	6.3	6.3	2.3	95.0	60.0	5.3	4.7	41.7	55.0	63.3
SETFM2	6.3	6.0	3.0	95.0	66.7	4.0	5.3	25.0	40.0	66.7
AH2	5.0	5.7	2.3	94.7	60.0	5.7	5.0	25.0	41.7	76.7
BAR FA 8228	6.3	6.0	3.0	95.0	56.7	5.3	6.0	40.0	55.0	53.3
DLFPS-321/3706	6.0	5.7	3.7	95.0	56.7	5.7	5.7	33.3	55.0	66.7
NAI-FQZ-17	5.7	6.0	5.7	90.0	56.7	5.3	5.0	53.3	66.7	50.0
PPG-TF 336	6.3	6.7	2.3	93.3	63.3	6.7	5.3	30.0	55.0	80.0
TANGO	5.7	5.3	4.7	93.3	58.3	5.3	5.0	46.7	60.0	73.3
DLFPS-321/3703	5.3	7.0	2.3	91.7	60.0	6.7	4.7	56.7	69.3	76.7
PPG-TF 262	5.7	6.7	2.3	93.3	53.3	6.0	5.0	50.0	65.0	86.7
PPG-TF 312	5.7	5.7	4.0	93.3	43.3	5.7	5.7	21.7	40.0	71.7
PPG-TF 313	5.7	6.3	2.7	91.7	58.3	6.3	4.3	23.3	50.0	70.0
PST-5MINK	5.7	6.0	2.3	91.7	55.0	6.3	5.7	57.3	67.7	70.0
5LSS	5.3	6.0	2.3	85.0	70.0	7.7	5.3	30.0	51.7	63.3
COPIOUS TF	5.3	5.3	5.7	95.0	50.0	4.0	4.7	26.7	49.0	66.7
DLFPS-321/3694	6.3	6.3	3.0	91.7	53.3	6.0	5.3	31.7	45.0	68.3
DLFPS-321/3707	6.3	5.7	2.3	93.3	66.7	6.7	5.0	23.3	33.3	70.0
ESTRENA	5.7	5.7	3.0	85.0	58.3	6.0	4.7	15.0	35.0	63.3
RHL2	6.0	6.3	2.0	90.0	38.3	6.0	5.0	40.0	55.0	73.3
SETF104	5.7	5.7	3.0	93.3	35.0	5.0	5.3	28.3	50.0	70.0
A-TF31	6.0	4.3	2.7	93.3	38.3	5.3	5.0	28.3	41.7	66.7
FIREHAWK SLT	6.3	6.0	2.0	93.3	46.7	6.0	5.3	40.0	55.0	70.0
HEMI	5.3	6.3	2.0	96.0	46.7	5.7	5.7	51.7	63.3	75.0
K18-NSE	5.3	5.7	3.7	88.3	66.7	7.0	4.3	34.0	48.7	70.0
NT-3	6.0	5.7	2.0	93.3	41.7	4.7	5.3	46.7	60.0	73.3
RAD-TF105	6.0	6.0	2.7	90.0	50.0	5.7	4.0	25.0	41.7	66.7
RAD-TF131	6.0	3.7	2.0	90.0	8.3	3.7	5.0	35.0	51.7	70.0
TURBO SS	6.3	3.3	2.0	93.3	5.0	2.0	4.7	41.7	55.0	73.3
KENTUCKY-31	5.7	4.0	5.0	91.7	70.0	5.7	5.3	41.7	61.7	76.7
LSD VALUE	2.7	1.6	1.6	15.6	25.6	2.0	1.9	53.1	43.0	23.7
C.V. (%)	12.1	12.3	26.4	4.2	21.0	15.7	11.6	48.8	27.4	13.3

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

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

TABLE 21.

PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS
 IN THE 2018 NATIONAL TALL FESCUE TEST AT GUELPH, ON 1/
 2019 DATA

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

NAME	PERCENT	PERCENT	PERCENT ESTABLISHMENT	
	WEEDS 28 DAYS	BARE SOIL 28 DAYS	16 DAYS	28 DAYS
AH1	5.0	10.0	63.3	85.0
AH2	5.0	11.7	73.3	83.3
NAI-ST5	8.3	8.3	61.7	83.3
PPG-TF 308	6.7	10.0	70.0	83.3
ESTRENA	6.7	11.7	56.7	81.7
MOONDANCE GLX	8.3	10.0	51.7	81.7
SETF104	8.3	10.0	65.0	81.7
ZRC1	8.3	10.0	55.0	81.7
DLFPS-321/3701	6.7	13.3	46.7	80.0
K18-NSE	8.3	11.7	60.0	80.0
K18-ROE	10.0	10.0	63.3	80.0
KENTUCKY-31	6.7	13.3	46.7	80.0
PPG-TF 254	6.7	13.3	55.0	80.0
ATF1768	11.7	10.0	56.7	78.3
DLFPS-321/3695	15.0	6.7	55.0	78.3
K18-WB1	10.0	11.7	53.3	78.3
PPG-TF 316	8.3	13.3	51.7	78.3
PPG-TF 337	10.0	11.7	55.0	78.3
PPG-TF 338	15.0	6.7	55.0	78.3
PST-5BYOB	5.0	16.7	53.3	78.3
PST-5GLBS	15.0	6.7	56.7	78.3
RH3	8.3	13.3	56.7	78.3
5LSS	13.3	10.0	48.3	76.7
DLFPS-321/3694	13.3	10.0	50.0	76.7
DLFPS-TF/3553	13.3	10.0	55.0	76.7
K18-RS6	11.7	11.7	55.0	76.7
LBF	10.0	13.3	48.3	76.7
NAI-3N2	13.3	10.0	48.3	76.7
PPG-TF 249	11.7	11.7	48.3	76.7
PPG-TF 262	8.3	15.0	56.7	76.7
PPG-TF 312	13.3	10.0	61.7	76.7
PRO GOLD	13.3	10.0	41.7	76.7
RDC	8.3	15.0	66.7	76.7
SESCR1	8.3	15.0	45.0	76.7
TMT1	13.3	10.0	68.3	76.7
ATF2116	10.0	15.0	46.7	75.0
DLFPS-321/3693	13.3	11.7	60.0	75.0
DLFPS-321/3696	18.3	6.7	46.7	75.0
NAI-FQZ-17	10.0	15.0	51.7	75.0
NAI-TUE	16.7	8.3	55.0	75.0
PPG-TF 244	10.0	15.0	53.3	75.0
PPG-TF 336	5.0	20.0	65.0	75.0
PST-5GQ	11.7	13.3	50.0	75.0
RAD-TF105	16.7	8.3	61.7	75.0
SE53D2	11.7	13.3	43.3	75.0

TABLE 21.
(CONT'D)

PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT GUELPH, ON 1/
2019 DATA

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

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

TABLE 21.
(CONT'D)

PERCENT ESTABLISHMENT RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT GUELPH, ON 1/
2019 DATA

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

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

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

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

TABLE 22.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT CORVALLIS, OR 1/
2019 DATA

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

NAME	QUALITY RATINGS													
	GENTETIC COLOR	LEAF TEXTURE	FALL DENSITY	COLOR NOVEMBER	PERCENT ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-TF 305	6.7	6.3	7.0	3.0	12.0	6.7	6.7	7.7	7.7	7.0	6.0	4.7	3.7	6.3
PPG-TF 306	7.0	5.7	7.0	3.3	12.7	6.7	6.7	7.7	7.7	6.7	6.0	5.0	3.7	6.3
DLFPS-321/3702	7.3	5.7	7.0	3.7	9.3	6.0	6.0	7.0	7.3	7.0	6.3	5.3	4.0	6.1
NT-3	7.0	5.3	7.0	3.0	11.3	6.7	6.7	7.7	7.0	6.0	6.0	5.3	3.7	6.1
PPG-TF 308	7.3	5.7	6.7	4.0	13.0	6.0	6.3	7.3	7.0	6.3	6.0	5.3	4.7	6.1
RAD-TF105	7.0	5.3	7.0	3.0	12.0	6.7	6.7	7.7	7.3	6.7	5.7	4.7	3.7	6.1
AH1	7.3	5.7	7.0	3.3	13.7	6.0	6.0	7.0	7.0	6.7	6.3	5.3	3.7	6.0
DLFPS-321/3695	7.0	5.3	7.0	3.0	13.3	6.7	6.7	7.7	7.0	6.3	5.7	4.7	3.7	6.0
DLFPS-321/3707	7.3	5.3	7.3	3.3	10.0	6.0	6.0	7.0	7.3	6.7	6.0	5.0	3.7	6.0
JT 233	7.3	5.0	7.3	3.0	9.3	6.3	6.3	7.3	7.3	6.7	6.0	5.0	3.3	6.0
JT 268	7.3	5.3	7.0	3.0	11.3	6.7	6.7	7.7	7.3	6.3	5.7	4.3	3.7	6.0
PPG-TF 316	6.7	6.0	7.0	2.7	11.3	6.7	6.7	7.7	7.3	6.3	5.7	4.7	3.3	6.0
PST-5THM	7.0	5.0	7.0	3.0	11.7	6.7	6.7	7.7	6.7	5.7	5.7	5.0	3.7	6.0
RAD-TF131	7.0	5.7	7.7	3.0	10.7	6.3	6.3	7.3	7.3	6.3	5.7	4.3	4.0	6.0
RS1	7.0	5.3	7.0	3.0	13.3	6.3	6.3	7.3	7.3	6.3	6.0	4.7	3.3	6.0
TMT1	7.0	5.7	7.0	3.3	12.7	6.3	6.0	7.0	7.0	6.3	6.0	5.0	4.0	6.0
LBF	7.3	5.3	7.0	3.0	12.0	5.3	6.0	7.0	7.0	6.7	6.0	5.0	4.0	5.9
NAI-TUE	6.7	5.0	6.7	3.0	10.7	6.3	6.3	7.3	7.0	6.3	5.7	4.7	3.3	5.9
PPG-TF 313	6.7	6.3	7.0	3.7	8.7	5.3	5.7	6.7	7.0	7.3	6.7	5.0	3.7	5.9
PPG-TF 338	7.0	5.3	7.0	3.3	11.3	6.0	6.0	7.0	7.0	6.3	6.0	5.0	4.0	5.9
SETFM3	7.3	5.0	7.0	3.0	10.7	6.3	6.3	7.3	7.0	6.3	5.7	4.7	3.7	5.9
TURBO SS	7.3	6.3	7.3	3.0	10.0	6.7	6.3	7.3	7.0	6.3	5.7	4.7	3.0	5.9
5LSS	6.3	6.7	7.0	3.3	13.0	6.0	6.0	7.0	6.7	6.0	5.7	5.3	3.7	5.8
AH2	6.7	5.7	7.0	3.3	14.0	5.7	6.0	7.0	7.0	6.0	5.7	5.0	4.3	5.8
DLFPS-321/3693	7.0	6.0	6.7	3.0	11.3	6.3	6.0	7.0	7.0	6.3	5.7	4.7	3.7	5.8
DLFPS-321/3699	7.3	5.7	7.3	3.0	10.7	5.7	5.7	6.7	7.0	6.3	6.0	5.0	4.0	5.8
DLFPS-321/3703	7.0	5.3	7.0	3.0	10.0	5.7	6.0	7.0	6.7	6.3	6.0	4.7	4.0	5.8
DLFPS-321/3706	7.0	6.7	7.0	3.3	10.7	6.0	6.0	7.0	7.0	6.7	5.7	4.7	3.7	5.8
DLFPS-TF/3550	7.0	6.0	7.3	3.0	11.3	5.3	5.7	6.7	7.0	6.7	6.0	5.0	4.0	5.8
DLFPS-TF/3552	7.3	5.3	7.3	3.7	10.3	5.3	5.7	6.7	6.7	6.3	6.0	5.3	4.0	5.8
DLFPS-TF/3553	7.0	5.3	7.3	3.7	10.7	5.7	5.7	6.7	7.0	6.3	6.0	5.3	4.0	5.8
GO-RH20	7.0	5.0	6.7	3.3	12.7	5.7	5.7	6.7	6.7	6.3	6.0	5.3	4.0	5.8
K18-WB1	6.7	6.0	7.0	3.0	12.7	5.7	6.0	7.0	7.0	6.7	6.0	4.7	3.7	5.8
DEGAS (LTP-TF-111)	7.0	5.7	7.0	3.7	7.7	5.7	6.0	7.0	6.7	6.0	6.0	5.3	4.0	5.8
NAI-3N2	6.7	5.3	7.0	3.3	12.0	6.0	6.0	7.0	7.0	6.3	5.7	4.7	3.3	5.8
PPG-TF 254	6.7	5.7	7.0	3.7	10.7	6.0	6.0	7.0	6.7	6.0	6.0	5.3	3.7	5.8
PPG-TF 257	7.0	6.0	7.0	3.7	11.3	6.0	6.0	7.0	7.0	6.3	5.7	4.7	3.7	5.8
PPG-TF 323	7.0	6.0	6.7	2.7	7.0	6.0	6.3	7.3	7.0	6.3	5.7	4.7	3.3	5.8
PPG-TF 337	7.0	5.7	7.3	3.3	13.7	6.0	6.0	7.0	7.0	6.0	5.7	5.0	3.7	5.8
RC4	6.7	5.3	7.0	3.0	10.7	6.0	6.0	7.0	7.0	6.7	6.0	4.3	3.3	5.8
RH1	7.3	5.7	7.0	3.0	11.7	5.7	5.7	6.7	7.0	7.0	6.3	4.7	3.7	5.8
TD2	6.7	6.0	7.0	3.0	10.7	5.3	5.7	6.7	7.0	7.0	6.0	4.7	3.7	5.8
A-TF31	6.7	5.7	7.0	3.0	10.0	5.7	5.7	6.7	7.0	6.7	5.7	4.7	3.7	5.7
AST8118LM	7.3	5.3	7.3	3.0	9.3	6.3	6.0	7.0	7.0	6.0	5.3	4.3	3.7	5.7
BGR-TF3	7.3	5.3	7.3	3.3	13.0	6.0	6.0	7.0	6.7	5.7	5.3	4.7	4.0	5.7

TABLE 22.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT CORVALLIS, OR 1/
2019 DATA

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

NAME	GENTETIC COLOR	LEAF TEXTURE	FALL DENSITY	COLOR NOVEMBER	PERCENT ESTABLISHMENT	MAY	JUN	JUL	QUALITY RATINGS					MEAN
									AUG	SEP	OCT	NOV	DEC	
DLFPS-321/3708	7.3	5.3	7.3	3.3	8.7	5.3	5.3	6.3	7.0	6.7	6.0	5.0	4.0	5.7
BONFIRE (JS DTT)	7.3	4.7	7.3	3.0	12.0	6.0	6.0	7.0	7.0	6.0	5.3	4.7	3.3	5.7
K18-NSE	7.0	6.3	6.7	3.3	10.7	5.0	6.0	7.0	7.0	6.0	5.7	4.7	4.0	5.7
NAI-ROS4	6.7	5.0	7.0	3.3	11.3	5.7	5.7	6.7	6.7	6.3	6.0	5.0	3.7	5.7
NAI-ST5	6.7	5.7	7.0	3.3	10.7	6.0	6.0	7.0	7.0	6.3	5.7	4.3	3.3	5.7
PPG-TF 244	7.3	5.7	7.0	3.7	10.0	5.7	6.0	7.0	7.0	6.3	5.7	4.3	3.7	5.7
PPG-TF 249	7.0	6.0	7.0	3.7	12.7	5.7	5.7	6.7	6.7	6.0	5.7	5.0	4.0	5.7
PPG-TF 262	7.0	5.7	6.7	3.3	11.3	5.3	5.7	6.7	7.0	6.3	5.7	4.7	4.0	5.7
BULLSEYE LTZ	7.3	5.7	7.0	3.3	12.0	5.3	5.3	6.3	6.3	6.3	6.0	5.0	4.0	5.6
DLFPS-321/3694	7.0	5.7	7.0	3.0	10.0	5.7	6.0	7.0	6.7	6.0	5.7	4.7	3.3	5.6
DLFPS-321/3701	7.3	6.0	7.0	3.3	9.3	5.0	5.3	6.3	6.3	6.3	6.3	5.3	4.0	5.6
DRAGSTER	7.3	5.0	7.3	3.7	7.3	5.0	5.0	6.0	6.7	6.3	6.0	5.3	4.3	5.6
ESTRENA	6.7	6.0	7.0	3.0	11.3	5.7	5.7	6.7	7.0	6.7	5.7	4.3	3.3	5.6
FIREHAWK SLT	7.0	5.3	7.3	3.3	12.0	5.7	5.7	6.7	7.0	6.3	5.7	4.7	3.3	5.6
GLX ACED (PST-5DART)	6.7	5.0	6.7	2.7	11.3	6.0	6.0	7.0	6.7	6.0	5.3	4.0	3.7	5.6
GRANDE 3	7.3	4.3	7.0	3.7	14.0	5.7	6.0	7.0	6.7	5.7	5.3	4.7	4.0	5.6
OKEEFE (LTP-TF-122)	7.0	5.7	7.0	3.7	8.7	5.0	5.7	6.7	6.7	6.0	5.7	5.0	4.0	5.6
PADRE 2	7.3	5.7	7.3	3.3	10.0	5.3	5.3	6.3	6.3	6.3	5.7	5.0	4.3	5.6
PPG-TF 267	7.0	5.7	7.0	3.3	10.0	5.3	5.7	6.7	6.7	6.0	5.7	5.0	4.0	5.6
PPG-TF 315	6.7	5.3	7.0	3.0	11.3	6.0	6.0	7.0	6.7	6.0	5.3	4.3	3.3	5.6
PST-5DZM	6.7	5.3	7.7	3.0	10.7	6.0	6.0	7.0	7.0	6.0	5.3	4.0	3.3	5.6
RHL2	7.0	6.0	6.7	3.0	10.0	5.7	5.7	6.7	6.7	6.3	5.7	5.0	3.3	5.6
SESCR1	6.3	5.3	7.0	3.7	12.0	6.0	6.0	7.0	7.0	6.3	5.3	3.7	3.7	5.6
3B2	7.0	5.3	7.0	3.3	8.7	5.7	5.7	6.7	6.7	6.0	5.3	4.7	3.7	5.5
BANDIT	7.3	5.0	7.3	3.3	10.0	5.0	5.3	6.3	6.7	6.3	5.7	4.3	4.0	5.5
BY-TF-169	7.0	6.0	7.3	3.3	10.0	5.3	5.3	6.3	6.3	6.0	5.7	4.7	4.0	5.5
DLFPS-321/3705	6.7	5.0	6.7	3.3	10.0	5.3	5.7	6.7	6.7	6.0	5.3	4.7	3.7	5.5
FAYETTE	6.7	5.3	7.0	3.7	10.7	5.0	5.3	6.3	6.3	6.0	5.7	5.0	4.0	5.5
NATURALLY GREEN	7.3	5.0	7.0	3.7	10.7	5.0	5.3	6.3	6.3	6.0	5.7	4.7	4.3	5.5
PPG-TF 255	6.7	5.7	7.0	3.0	8.3	5.3	5.3	6.3	6.3	6.3	5.7	4.7	3.7	5.5
PPG-TF 318	7.0	5.7	7.0	3.0	10.0	5.3	5.7	6.7	6.7	6.3	5.3	4.3	3.3	5.5
PPG-TF 336	7.0	5.7	7.0	3.0	13.3	5.7	5.7	6.7	6.7	6.0	5.7	4.7	3.3	5.5
RDC	6.7	5.3	7.3	3.3	11.3	5.7	5.7	6.7	6.3	5.7	5.7	5.0	3.7	5.5
RHF	7.0	6.0	7.3	3.0	10.7	5.0	5.0	6.0	6.3	6.3	6.0	5.0	4.0	5.5
SE53D2	7.0	5.0	7.0	3.0	10.0	5.7	6.0	7.0	6.7	5.7	5.0	4.3	3.7	5.5
SETF104	7.0	5.3	7.3	3.0	11.3	5.7	5.3	6.3	6.3	6.0	5.7	4.7	3.7	5.5
SETFM2	7.0	5.0	7.0	3.0	10.7	6.0	6.0	7.0	7.0	6.0	5.0	3.7	3.3	5.5
TANGO	7.0	4.7	7.0	3.0	11.3	5.7	6.0	7.0	6.7	5.7	5.3	4.0	3.7	5.5
TF445	6.3	5.7	7.0	3.3	12.0	5.7	6.0	7.0	6.7	5.7	5.3	4.3	3.3	5.5
3N1	7.3	5.3	7.3	3.3	9.3	5.3	5.3	6.3	6.3	6.0	5.3	4.7	4.0	5.4
AST8218LM	7.0	5.0	7.0	3.0	10.7	5.7	5.7	6.7	6.7	5.7	5.3	4.3	3.3	5.4
COL-TF-148	6.7	5.0	7.0	4.0	7.3	4.7	5.3	6.3	6.3	6.0	5.7	5.0	4.0	5.4
COPIOUS TF	7.0	6.0	7.3	3.0	13.7	6.0	5.3	6.3	6.3	6.0	5.3	4.3	3.7	5.4
K18-ROE	7.3	5.0	7.0	3.3	10.0	5.3	5.7	6.7	6.0	5.0	5.3	5.0	4.0	5.4
NAI-FQZ-17	7.3	5.0	7.3	3.0	10.7	5.3	5.3	6.3	6.7	6.0	5.7	4.7	3.3	5.4

TABLE 22.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT CORVALLIS, OR 1/
2019 DATA

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

NAME	QUALITY RATINGS														MEAN
	GENETIC COLOR	LEAF TEXTURE	FALL DENSITY	COLOR NOVEMBER	PERCENT ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
PPG-TF 238	7.0	5.7	7.0	3.0	10.0	5.3	5.7	6.7	6.7	6.0	5.3	4.3	3.3	5.4	
PST-5BYOB	7.0	4.7	7.0	3.0	12.0	6.0	5.7	6.7	6.0	5.3	5.3	4.7	3.3	5.4	
RH3	6.7	5.3	7.0	3.7	13.0	5.7	5.7	6.7	6.3	5.3	5.3	4.3	3.7	5.4	
ATF1768	7.0	4.7	7.7	3.0	13.0	5.7	5.3	6.3	6.0	5.0	5.3	4.7	3.7	5.3	
BIRMINGHAM	7.0	4.3	7.0	3.0	12.0	5.3	5.3	6.3	6.0	5.3	5.3	4.7	3.7	5.3	
BULLSEYE	7.0	4.7	7.3	3.3	12.0	5.3	5.3	6.3	6.3	5.3	5.3	4.7	4.0	5.3	
DLFPS-321/3696	7.0	5.3	7.0	3.0	9.3	5.7	5.7	6.7	6.0	5.3	5.0	4.3	3.3	5.3	
GO-AOMK	7.3	5.0	7.3	3.3	9.3	5.3	5.3	6.3	6.3	5.7	5.3	4.7	3.7	5.3	
JT 517	7.0	5.3	7.3	3.3	10.0	5.3	5.3	6.3	6.3	6.0	5.3	4.3	3.7	5.3	
K18-RS6	6.7	5.7	7.0	3.0	12.0	5.3	5.3	6.3	6.3	6.0	5.3	4.3	3.3	5.3	
PARAMOUNT	6.7	5.0	7.0	3.3	9.3	5.3	5.3	6.3	6.0	5.3	5.3	5.0	4.0	5.3	
PPG-TF 320	7.3	5.0	7.0	3.3	9.3	5.3	5.3	6.3	6.3	6.0	5.3	4.7	3.3	5.3	
PST-5GQ	6.7	4.7	6.7	3.3	10.7	5.3	5.0	6.0	6.0	5.3	5.3	5.0	4.0	5.3	
RAPTOR III	6.7	5.3	7.0	3.0	11.3	5.3	5.3	6.3	6.3	5.7	5.3	4.3	3.3	5.3	
TF456	6.3	5.7	7.0	3.0	10.0	5.3	5.3	6.3	6.3	5.7	5.3	4.7	3.7	5.3	
BAR 9FE MAS	7.0	4.0	7.3	3.0	10.0	5.0	5.0	6.0	6.0	5.3	5.3	4.7	4.0	5.2	
BAR FA 8228	6.7	4.0	7.3	3.3	9.3	5.0	5.3	6.3	6.0	5.0	5.0	4.7	4.3	5.2	
BAR TF 134	6.7	5.0	7.0	3.0	8.7	5.0	5.0	6.0	6.0	5.3	5.3	4.7	4.0	5.2	
BAR-FA8230	7.0	4.0	7.3	3.0	10.7	5.3	5.3	6.3	5.7	5.0	5.3	4.7	4.0	5.2	
BRAVO 2	6.7	4.7	7.0	3.0	10.7	4.7	5.3	6.3	6.3	5.7	5.0	4.3	3.7	5.2	
MOONDANCE GLX	7.3	4.7	7.0	3.7	8.3	5.0	5.0	6.0	6.0	6.0	5.3	4.7	3.7	5.2	
PPG-TF 312	6.3	5.7	7.0	3.0	10.7	5.0	5.3	6.3	6.3	5.7	5.3	4.3	3.3	5.2	
ZRC1	6.7	5.3	7.3	3.3	12.7	5.3	5.3	6.3	6.0	5.7	5.0	4.3	3.7	5.2	
PPG-TF 231	7.0	5.3	7.3	3.0	14.3	5.0	5.0	6.0	6.0	5.7	5.3	4.7	3.3	5.1	
PRO GOLD	6.7	5.0	7.0	3.3	11.3	5.0	5.0	6.0	6.3	5.7	5.0	4.3	3.7	5.1	
PST-5E6	7.0	4.7	7.0	3.3	11.3	5.0	5.0	6.0	6.0	5.0	5.0	4.7	4.0	5.1	
ATF2116	7.3	4.0	7.3	3.0	10.7	5.3	5.3	6.3	6.0	5.0	4.7	4.0	3.7	5.0	
DLFPS-321/3679	7.0	4.7	7.3	3.0	8.7	4.7	4.7	5.7	5.7	5.0	5.3	5.0	4.0	5.0	
HEMI	7.0	5.0	7.7	3.0	10.7	5.3	5.3	6.3	6.0	5.0	4.7	4.0	3.7	5.0	
LIFEGUARD	6.7	5.0	7.0	3.0	13.0	5.0	5.0	6.0	6.0	5.3	5.0	4.3	3.7	5.0	
PALOMAR	7.0	3.3	7.0	3.0	9.3	5.3	5.3	6.3	6.0	4.7	4.7	4.3	3.7	5.0	
PST-5DC24	7.3	4.7	7.0	3.0	10.7	5.0	5.0	6.0	6.0	5.7	5.0	4.0	3.3	5.0	
PST-5GLBS	6.7	4.3	7.0	3.0	10.7	5.0	5.0	6.0	5.7	5.0	5.0	4.3	3.7	5.0	
PST-5MCMO	7.0	4.7	7.0	3.0	12.0	5.0	5.0	6.0	6.0	5.3	5.0	4.3	3.7	5.0	
PST-5MINK	6.7	5.3	6.7	3.0	5.7	5.3	5.0	6.0	6.0	5.3	5.0	4.3	3.3	5.0	
PST-5TRN	7.0	4.3	7.0	3.3	10.7	5.0	5.0	6.0	5.7	5.0	5.0	4.7	4.0	5.0	
PST-5SQB	6.7	5.0	7.0	3.0	9.7	5.0	5.3	6.3	5.7	4.7	4.7	4.0	3.3	4.9	
SE5STAR	6.3	5.0	7.0	3.0	8.0	5.3	5.0	6.0	6.0	5.3	4.7	3.7	3.3	4.9	
ESCALADE	6.7	3.3	7.0	3.0	12.7	4.7	5.0	6.0	5.3	4.7	4.7	4.0	3.7	4.8	
GRAND PRIX (FC15-01P)	6.7	4.0	7.3	3.0	8.0	4.7	4.7	5.7	5.7	5.0	4.7	4.0	3.3	4.7	
OG-WALK	6.7	3.0	7.0	3.3	8.0	4.7	4.7	5.7	5.7	4.7	4.3	4.0	4.0	4.7	
KENTUCKY-31	6.0	2.0	7.0	3.3	13.7	3.0	3.0	4.0	3.0	2.0	3.3	4.0	4.3	3.3	
LSD VALUE	0.9	0.8	1.3	1.9	3.0	1.5	1.4	1.4	1.0	1.2	1.0	1.2	1.8	0.7	
C.V. (%)	5.7	10.0	4.9	13.9	15.7	12.7	11.9	10.1	8.5	11.1	9.6	11.3	13.1	7.1	

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

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

TABLE 23.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT KENNETT SQUARE, PA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER		PERCENT ESTABLISHMENT				QUALITY RATINGS					MEAN
	FALL		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
K18-NSE	99.0	90.0	5.7	6.0	7.3	7.3	7.3	8.7	8.0	6.3	7.1	
BGR-TF3	98.7	90.0	6.0	6.3	6.7	7.0	7.3	8.3	8.0	6.3	7.0	
DLFPS-TF/3553	98.3	86.7	6.0	6.0	7.0	6.7	7.0	8.3	7.7	7.0	7.0	
NAI-TUE	98.3	90.0	6.0	6.7	7.7	6.7	7.0	8.3	7.3	6.3	7.0	
PPG-TF 315	98.3	90.0	6.0	6.3	7.0	6.3	7.0	8.7	8.0	6.7	7.0	
PPG-TF 320	99.0	90.0	6.0	6.3	7.0	7.3	7.0	8.3	7.3	6.3	7.0	
TD2	98.7	90.0	6.0	6.0	6.3	7.0	6.7	9.0	8.0	7.0	7.0	
AST8218LM	97.7	90.0	6.0	6.7	7.3	6.3	6.3	8.3	7.7	6.3	6.9	
BANDIT	99.0	90.0	6.0	6.7	7.3	6.7	6.7	8.0	7.3	6.3	6.9	
DLFPS-321/3699	98.7	86.7	6.0	6.7	7.0	6.0	6.3	8.7	7.7	6.7	6.9	
DLFPS-321/3706	99.0	90.0	6.0	6.0	7.3	6.3	6.7	8.7	7.7	6.3	6.9	
DLFPS-321/3707	98.0	86.7	6.0	6.3	6.7	6.3	7.0	8.7	7.7	6.3	6.9	
K18-RS6	98.7	90.0	6.0	6.0	6.7	6.3	7.0	8.7	8.0	6.7	6.9	
PPG-TF 255	98.7	90.0	6.0	6.7	6.7	6.0	7.0	8.7	7.7	6.3	6.9	
PPG-TF 312	98.3	83.3	6.0	6.3	7.0	6.0	6.7	8.7	8.0	6.3	6.9	
PPG-TF 323	98.7	86.7	6.0	6.7	7.0	6.0	7.0	8.7	8.0	6.0	6.9	
PPG-TF 338	98.3	90.0	6.0	7.0	7.0	6.0	6.7	8.7	8.0	6.0	6.9	
TMT1	99.0	86.7	6.0	6.3	6.0	6.3	7.0	9.0	8.0	6.7	6.9	
AH2	98.3	90.0	6.0	6.0	6.3	6.0	6.3	8.7	7.7	7.0	6.8	
AST8118LM	98.3	90.0	6.0	6.3	6.7	5.7	6.7	8.7	7.7	6.7	6.8	
BULLSEYE LTZ	99.0	90.0	6.0	6.0	6.7	6.3	6.7	8.7	7.7	6.3	6.8	
DLFPS-321/3679	99.0	90.0	6.0	6.0	6.3	7.0	7.0	8.7	7.7	6.0	6.8	
DLFPS-321/3696	98.3	90.0	6.0	6.0	7.0	6.3	6.7	8.3	7.3	6.7	6.8	
DLFPS-321/3703	99.0	90.0	6.0	6.7	6.7	6.0	6.7	8.7	7.7	6.3	6.8	
DLFPS-321/3708	98.3	90.0	6.0	6.0	6.7	6.3	6.7	8.7	7.7	6.3	6.8	
DLFPS-TF/3550	98.0	90.0	6.0	6.0	7.0	6.3	6.7	8.3	7.7	6.7	6.8	
JT 233	98.7	90.0	6.0	6.3	6.3	6.0	6.7	8.7	8.0	6.0	6.8	
JT 268	99.0	90.0	6.0	6.0	7.0	6.3	6.7	8.3	7.7	6.3	6.8	
JT 517	99.0	90.0	6.0	6.0	6.7	6.0	6.7	8.3	7.7	6.7	6.8	
PARAMOUNT	99.0	83.3	6.0	6.3	6.7	6.3	6.3	8.0	8.0	6.3	6.8	
PPG-TF 257	98.3	90.0	6.0	6.0	7.3	6.0	6.7	8.7	7.7	6.0	6.8	
PPG-TF 267	99.0	90.0	6.0	6.7	6.7	5.7	6.7	8.7	7.7	6.7	6.8	
PPG-TF 306	98.7	90.0	6.0	6.3	7.0	6.0	6.3	8.3	7.7	6.3	6.8	
PPG-TF 313	99.0	86.7	6.0	6.3	7.0	5.7	6.7	8.7	7.7	6.7	6.8	
RHF	98.3	90.0	5.7	5.7	7.0	6.3	6.7	8.7	7.7	6.3	6.8	
SETF104	98.3	86.7	6.0	6.0	7.3	6.3	6.7	8.3	7.7	6.3	6.8	
TF445	99.0	83.3	6.0	6.0	6.3	6.7	7.0	9.0	7.7	6.0	6.8	
TF456	98.7	90.0	6.0	6.3	6.7	6.3	6.7	8.3	7.7	6.3	6.8	
BAR TF 134	98.7	83.3	5.7	5.7	6.3	6.3	6.7	8.7	7.7	6.3	6.7	
BRAVO 2	98.0	83.3	6.0	6.0	7.0	6.3	6.7	8.3	7.3	6.0	6.7	
BY-TF-169	98.3	76.7	5.7	5.7	6.7	6.3	6.7	8.7	7.3	6.3	6.7	
DLFPS-321/3693	99.0	90.0	6.0	6.0	6.0	6.0	6.7	8.7	7.7	6.7	6.7	
DLFPS-321/3702	98.7	86.7	6.0	6.3	7.0	6.3	6.3	8.3	7.3	6.0	6.7	
DLFPS-TF/3552	98.0	90.0	6.0	6.0	6.7	6.0	6.3	8.3	8.0	6.3	6.7	
FIREHAWK SLT	99.0	90.0	6.0	6.0	6.7	5.7	6.7	8.3	7.7	6.3	6.7	

TABLE 23.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT KENNETT SQUARE, PA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER		PERCENT ESTABLISHMENT				QUALITY RATINGS					MEAN
	FALL		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
DEGAS (LTP-TF-111)	98.7	80.0	6.0	6.0	6.0	6.7	6.7	8.3	8.0	6.0	6.7	
NAI-3N2	98.7	90.0	6.0	6.3	7.3	6.0	6.3	8.3	7.3	6.0	6.7	
NAI-ST5	99.0	80.0	6.0	6.0	7.0	6.3	6.3	8.3	7.3	6.3	6.7	
PPG-TF 231	98.3	86.7	6.0	6.0	7.0	6.0	6.3	8.0	7.7	6.3	6.7	
PPG-TF 238	99.0	86.7	6.0	6.0	6.3	6.3	6.7	8.3	7.7	6.0	6.7	
PPG-TF 244	98.7	83.3	6.0	6.0	7.0	6.3	6.3	8.3	7.3	6.0	6.7	
PPG-TF 254	98.0	90.0	6.0	6.3	6.7	6.7	6.7	8.0	7.0	6.0	6.7	
PPG-TF 308	98.7	86.7	6.0	6.3	6.3	6.0	6.3	8.3	7.3	6.7	6.7	
PPG-TF 316	99.0	90.0	6.0	6.3	6.3	6.3	6.7	8.3	7.3	6.0	6.7	
PPG-TF 337	99.0	90.0	6.0	6.0	7.0	6.0	6.3	8.3	7.7	6.0	6.7	
RAD-TF131	99.0	86.7	6.0	6.3	6.3	6.3	6.7	8.7	6.7	6.3	6.7	
RS1	98.3	86.7	6.0	6.0	6.0	6.0	6.7	8.7	7.7	6.3	6.7	
SETFM2	99.0	86.7	6.0	6.0	6.3	5.7	6.7	8.7	7.7	6.3	6.7	
TANGO	98.7	86.7	6.0	6.0	6.3	6.3	6.7	8.0	7.7	6.3	6.7	
5LSS	99.0	90.0	6.0	6.0	6.3	5.7	6.7	8.3	7.7	6.3	6.6	
ATF1768	98.3	90.0	6.0	6.0	6.3	6.0	6.3	8.3	7.7	6.3	6.6	
BIRMINGHAM	98.3	90.0	6.0	6.0	6.3	6.0	6.7	8.0	7.3	6.7	6.6	
DLFPS-321/3695	98.0	90.0	5.3	5.7	6.0	6.0	7.0	9.0	8.0	6.0	6.6	
DRAGSTER	98.7	76.7	5.7	5.7	6.3	6.7	6.7	8.7	7.7	5.7	6.6	
GO-AOMK	98.3	86.7	6.0	6.7	6.7	5.3	6.3	8.3	7.7	6.0	6.6	
GO-RH20	99.0	90.0	6.0	6.0	6.0	6.0	6.7	8.7	7.7	6.0	6.6	
GRANDE 3	99.0	90.0	6.0	6.3	6.0	6.0	6.3	8.3	7.3	6.3	6.6	
LBF	98.7	90.0	6.0	6.0	6.3	6.0	6.3	8.3	7.3	6.3	6.6	
NAI-FQZ-17	98.7	90.0	6.0	6.3	7.3	6.0	6.3	8.0	7.0	6.0	6.6	
NT-3	98.7	83.3	6.0	5.7	6.7	6.3	6.7	8.0	7.3	6.3	6.6	
PPG-TF 249	98.7	86.7	6.0	6.0	6.3	6.0	6.3	8.3	8.0	6.0	6.6	
PPG-TF 305	99.0	83.3	6.0	6.0	6.3	6.0	6.7	8.3	7.3	6.3	6.6	
PPG-TF 318	98.7	90.0	6.0	6.3	6.7	6.0	6.0	8.3	7.3	6.3	6.6	
PPG-TF 336	99.0	90.0	6.0	6.0	6.3	6.3	6.7	8.3	7.3	6.0	6.6	
PRO GOLD	99.0	83.3	6.0	6.0	7.0	6.3	6.7	7.7	7.3	6.0	6.6	
RAD-TF105	98.7	90.0	6.0	6.0	7.0	6.0	6.3	8.0	7.3	6.0	6.6	
RC4	98.3	86.7	6.0	6.0	6.7	6.0	6.3	8.3	7.3	6.0	6.6	
RDC	98.7	90.0	5.7	5.7	6.3	5.7	6.3	9.0	8.0	6.3	6.6	
RH3	98.7	90.0	6.0	6.0	6.7	6.0	6.3	8.0	7.7	6.3	6.6	
SESCR1	97.7	90.0	6.0	6.3	6.3	5.3	6.3	8.3	8.0	6.0	6.6	
TURBO SS	98.7	86.7	6.0	6.3	7.7	5.7	6.0	8.0	7.3	6.0	6.6	
ZRC1	98.7	90.0	5.7	5.7	6.0	6.3	7.0	8.7	7.7	6.0	6.6	
3N1	98.7	76.7	6.0	6.0	6.7	6.3	6.3	8.0	7.0	6.0	6.5	
AH1	99.0	90.0	5.3	5.7	6.3	5.7	6.0	8.7	7.7	6.3	6.5	
COPIOUS TF	98.0	83.3	6.0	6.0	6.3	5.7	6.3	8.3	7.3	6.0	6.5	
DLFPS-321/3701	98.7	86.7	6.0	6.3	6.3	6.0	6.3	8.0	7.3	6.0	6.5	
ESTRENA	98.7	90.0	6.0	6.0	6.0	6.0	6.3	8.0	7.3	6.3	6.5	
GLX ACED (PST-5DART)	97.7	90.0	6.0	6.0	6.3	6.0	6.3	7.7	7.3	6.3	6.5	
K18-ROE	98.0	83.3	6.0	6.0	6.7	6.0	6.3	8.0	7.0	6.0	6.5	
OKEEFE (LTP-TF-122)	98.0	73.3	5.7	5.7	6.3	6.0	6.7	8.7	7.3	5.7	6.5	

TABLE 23.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT KENNETT SQUARE, PA 1/
2019 DATA

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

NAME	PERCENT GROUND COVER		PERCENT ESTABLISHMENT				QUALITY RATINGS					MEAN
	FALL		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
NAI-ROS4	99.0	83.3	5.7	5.7	6.7	5.7	6.7	8.7	7.7	5.7	6.5	
PPG-TF 262	99.0	86.7	6.0	6.0	6.7	6.3	6.3	7.7	7.0	6.0	6.5	
PST-5BYOB	98.3	90.0	6.0	6.3	7.3	6.0	6.3	7.3	6.7	6.0	6.5	
PST-5GQ	98.0	90.0	6.0	6.0	6.3	6.0	6.3	8.0	7.0	6.0	6.5	
RAPTOR III	99.0	83.3	5.7	5.7	6.7	6.0	6.3	8.3	7.3	5.7	6.5	
RH1	98.7	90.0	6.0	6.0	6.7	5.7	6.3	8.3	7.3	6.0	6.5	
RHL2	98.7	90.0	6.0	6.0	6.7	6.0	6.0	8.0	7.0	6.3	6.5	
SE53D2	98.7	86.7	6.0	6.0	6.0	5.7	6.3	8.3	7.3	6.0	6.5	
SETFM3	98.7	83.3	6.0	6.3	6.3	5.7	6.3	8.0	7.0	6.0	6.5	
3B2	99.0	76.7	5.7	5.7	6.3	6.0	6.0	8.0	7.0	6.3	6.4	
A-TF31	98.3	86.7	6.0	6.0	6.3	5.7	6.0	7.7	7.3	6.0	6.4	
ATF2116	98.7	83.3	5.7	5.7	6.3	6.3	6.3	8.0	7.0	5.7	6.4	
BAR FA 8228	99.0	86.7	5.7	5.7	6.0	6.0	6.3	8.0	7.3	6.0	6.4	
BULLSEYE	99.0	83.3	6.0	5.7	6.7	5.7	6.3	8.0	7.0	6.0	6.4	
COL-TF-148	98.0	83.3	6.0	6.0	6.3	6.3	6.3	7.3	7.0	6.0	6.4	
PADRE 2	98.7	86.7	6.0	6.3	6.0	5.7	6.0	8.0	7.0	6.0	6.4	
PALOMAR	98.3	86.7	6.0	6.0	7.0	5.7	6.0	7.3	7.0	6.0	6.4	
SE5STAR	98.7	80.0	6.0	6.0	6.3	6.0	6.0	7.7	7.0	6.0	6.4	
BAR 9FE MAS	98.3	86.7	6.0	6.3	6.0	5.0	6.0	8.0	7.0	6.3	6.3	
BAR-FA8230	98.7	83.3	5.7	5.7	6.3	6.0	6.0	7.7	7.3	6.0	6.3	
DLFPS-321/3694	98.7	90.0	5.3	5.7	5.3	6.0	6.3	8.3	7.7	6.0	6.3	
DLFPS-321/3705	98.7	83.3	5.7	5.7	6.7	5.7	6.0	7.7	7.0	6.0	6.3	
FAYETTE	98.3	83.3	5.3	5.3	6.3	6.3	6.7	7.7	7.3	5.7	6.3	
GRAND PRIX (FC15-01P)	98.0	66.7	5.7	5.7	6.3	6.3	6.3	7.3	7.0	6.0	6.3	
HEMI	99.0	90.0	5.7	5.7	6.7	5.3	6.0	8.3	7.3	5.7	6.3	
BONFIRE (JS DTT)	98.0	86.7	5.3	5.3	6.7	6.3	6.3	8.0	6.7	5.7	6.3	
LIFEGUARD	98.3	83.3	5.7	5.7	6.7	6.0	6.0	7.7	6.7	6.0	6.3	
NATURALLY GREEN	99.0	90.0	5.7	5.7	6.0	6.0	6.3	7.7	7.3	5.7	6.3	
PST-5DC24	98.3	86.7	5.7	5.7	6.7	6.3	6.3	7.7	6.7	5.7	6.3	
PST-5DZM	99.0	86.7	5.7	5.7	6.3	6.3	6.3	7.7	7.0	5.7	6.3	
PST-5E6	98.7	90.0	5.7	5.7	6.3	6.0	6.0	7.7	7.0	5.7	6.3	
PST-5MCMO	98.7	80.0	5.3	5.3	6.3	6.0	6.0	8.0	7.0	6.0	6.3	
PST-5MINK	99.0	83.3	5.3	5.3	6.3	6.0	6.7	8.0	6.7	5.7	6.3	
PST-5SQB	98.3	83.3	6.0	6.0	6.3	6.3	6.3	7.0	6.7	6.0	6.3	
PST-5TRN	98.3	90.0	5.7	5.7	6.3	5.7	6.0	7.7	7.0	6.0	6.3	
ESCALADE	99.0	90.0	5.3	5.3	6.0	6.0	6.3	7.7	6.7	6.0	6.2	
K18-WB1	98.7	83.3	5.3	5.3	6.3	6.0	6.0	7.7	7.0	5.7	6.2	
MOONDANCE GLX	98.7	76.7	6.0	6.0	6.3	6.0	6.0	7.0	6.3	5.7	6.2	
PST-5THM	98.7	80.0	5.7	5.7	6.0	5.7	6.0	8.0	7.0	5.7	6.2	
OG-WALK	98.3	76.7	5.7	5.7	6.3	5.3	5.7	7.0	6.3	5.7	6.0	
PST-5GLBS	98.3	86.7	5.0	5.0	6.3	5.7	6.0	7.7	7.0	5.0	6.0	
KENTUCKY-31	98.7	86.7	4.0	3.7	3.7	3.7	4.3	4.7	5.0	4.0	4.1	
LSD VALUE	3.2	10.6	0.6	0.8	1.4	1.1	1.2	1.1	1.1	1.1	0.5	
C.V. (%)	0.6	6.0	5.4	7.3	9.5	8.8	7.8	7.1	7.4	7.9	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 24.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT KNOXVILLE, TN 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	PERCENT GROUND COVER			QUALITY RATINGS											
				SPRING	SUMMER	FALL	JAN	FEB	MAR	APR	JUN	JUL	AUG	OCT	NOV	DEC	MEAN	
NT-3	6.3	6.0	8.0	5.3	90.7	95.0	5.3	5.3	5.3	5.3	7.0	7.7	5.3	6.7	6.0	7.7	7.3	
A-TF31	6.3	6.0	7.7	4.0	88.3	94.0	5.7	6.0	5.3	5.3	7.0	7.3	5.3	7.0	6.0	7.7	7.0	
AH1	6.5	6.7	8.3	3.7	95.7	97.0	5.7	5.7	6.0	6.7	7.0	8.0	5.0	7.3	6.0	7.0	7.0	
AH2	6.7	5.3	9.0	5.0	95.3	96.7	6.3	6.3	6.7	6.7	7.7	6.3	6.0	6.7	6.0	8.0	7.0	
ATF1768	6.4	6.3	8.0	5.7	90.3	94.0	6.0	5.7	6.0	6.0	6.7	7.3	5.3	7.0	6.0	7.7	7.0	
BGR-TF3	6.5	6.0	7.7	4.7	87.0	94.3	6.7	6.7	6.7	6.0	6.3	7.3	5.7	6.0	5.7	7.7	7.0	
BULLSEYE LTZ	6.9	5.7	8.3	5.3	94.0	96.0	7.3	7.0	7.0	7.0	7.3	7.7	5.0	7.0	5.7	7.7	7.0	
COL-TF-148	6.6	5.7	8.7	5.0	94.7	95.7	6.7	6.7	6.0	6.3	7.0	7.0	5.7	7.0	6.0	7.7	7.0	
COPIOUS TF	6.4	5.7	8.3	3.3	93.0	93.0	6.0	5.7	5.3	6.7	7.3	6.7	5.7	6.7	5.7	7.3	7.0	
DLFPS-321/3693	6.7	5.7	8.0	5.0	92.3	95.3	7.0	7.3	7.3	6.3	7.3	7.0	5.3	6.3	5.3	7.7	7.0	
DLFPS-321/3694	6.2	6.3	8.0	5.0	92.0	96.0	5.7	5.3	5.0	6.0	6.7	7.0	5.0	6.7	5.7	8.0	7.0	
DLFPS-321/3703	6.6	5.3	8.3	6.3	95.3	94.0	6.7	6.7	6.3	6.7	7.7	7.0	5.7	6.3	6.0	7.0	7.0	
DLFPS-321/3708	6.4	5.7	8.3	5.3	94.0	94.0	6.0	6.0	6.0	5.7	7.3	6.3	5.0	7.3	6.3	7.7	7.0	
DLFPS-TF/3552	6.2	6.0	8.0	3.7	91.3	95.3	5.0	5.3	5.3	5.7	6.3	7.3	5.7	7.0	6.0	7.0	7.0	
GO-AOMK	6.5	5.0	8.0	4.7	92.0	94.0	6.0	6.0	5.3	6.0	7.7	6.7	5.7	7.0	6.0	8.0	7.0	
GRANDE 3	6.7	6.3	8.0	5.0	90.0	93.7	7.7	7.0	6.7	6.3	7.0	7.3	5.3	6.3	5.7	7.3	7.0	
BONFIRE (JS DTT)	6.3	6.3	8.3	5.0	92.7	95.7	5.7	5.3	5.0	6.7	7.0	7.3	5.7	6.7	5.7	7.0	7.0	
JT 233	6.4	5.7	8.0	6.7	93.0	93.7	6.3	6.3	6.0	6.0	6.7	6.7	5.3	6.3	6.0	8.0	7.0	
K18-RS6	6.5	6.0	8.3	4.7	93.7	96.0	6.0	6.0	5.3	6.7	7.0	7.0	5.3	7.0	6.0	8.0	7.0	
NAI-3N2	6.6	6.0	8.7	4.3	93.7	96.0	6.3	6.3	6.3	6.3	7.0	7.3	5.3	6.7	6.0	7.7	7.0	
NATURALLY GREEN	6.1	6.3	7.7	5.0	86.7	91.0	5.3	5.3	5.3	6.3	6.3	6.7	5.0	6.3	5.3	7.7	7.0	
PADRE 2	6.7	5.3	8.3	6.7	92.7	91.3	6.7	6.7	6.3	7.0	7.3	7.0	5.3	6.7	6.0	8.0	7.0	
PPG-TF 249	6.1	6.0	8.0	4.3	89.0	96.7	5.0	5.0	4.7	5.0	6.7	7.3	5.7	7.0	5.7	7.7	7.0	
PPG-TF 254	6.5	5.3	8.3	6.3	94.0	92.0	6.3	6.3	6.0	6.3	7.0	6.7	5.0	7.0	6.0	8.0	7.0	
PPG-TF 255	6.7	5.7	8.3	3.0	93.0	95.7	6.7	6.3	6.3	6.7	7.0	7.0	6.0	7.0	5.7	8.0	7.0	
PPG-TF 257	6.6	4.7	8.3	5.7	94.7	95.3	6.7	6.7	7.0	6.7	7.3	7.0	5.0	6.3	5.7	7.7	7.0	
PPG-TF 267	6.3	5.3	8.3	7.0	92.3	94.7	5.3	5.7	5.3	6.3	7.0	6.7	5.3	7.0	6.0	7.7	7.0	
PPG-TF 305	6.1	5.3	8.0	5.7	91.3	89.7	6.0	5.7	5.7	6.0	6.7	6.3	4.7	7.0	6.0	6.0	7.0	
PPG-TF 312	6.5	5.7	8.0	5.3	94.0	94.7	6.7	6.0	6.0	6.7	7.0	7.0	5.3	6.3	5.7	7.7	7.0	
RDC	6.5	6.0	8.7	3.7	94.7	96.0	6.7	6.3	6.3	6.7	7.0	7.3	5.0	6.3	5.7	7.7	7.0	
RH1	6.7	6.3	8.3	4.7	94.0	95.3	6.7	6.7	6.7	7.0	7.0	7.7	5.3	6.3	5.7	7.3	7.0	
RH3	6.4	5.7	8.0	5.0	91.7	92.7	6.0	6.0	6.0	5.7	7.0	7.3	5.0	7.0	6.0	7.7	7.0	
RHL2	6.3	6.0	8.3	4.0	94.0	96.7	5.3	5.3	5.3	5.7	7.3	7.3	5.7	7.0	6.0	7.0	7.0	
RS1	6.3	5.3	8.0	5.7	92.7	93.3	6.0	5.7	5.7	6.0	7.0	6.3	5.3	6.7	6.0	7.7	7.0	
SE5STAR	5.3	5.3	7.7	5.0	85.7	91.0	3.3	3.3	3.3	4.3	6.0	7.0	4.7	6.7	6.0	7.0	7.0	
SESCR1	6.7	6.0	8.0	5.0	91.7	94.0	6.7	6.7	6.3	6.3	7.3	7.0	5.3	7.0	6.0	8.0	7.0	
TD2	6.8	6.0	8.3	5.0	95.3	94.3	7.0	6.7	6.7	7.0	7.0	7.3	5.3	7.3	6.0	7.7	7.0	
3N1	6.1	4.3	8.3	6.7	91.3	91.3	6.0	6.0	6.0	5.7	7.0	6.3	4.3	6.0	5.3	7.7	6.7	
BAR FA 8228	6.3	5.7	8.0	5.7	93.3	93.7	6.0	6.0	6.0	6.7	6.7	7.0	5.3	6.7	6.0	6.0	6.7	
BAR-FA8230	6.5	6.0	8.0	5.3	91.3	96.0	6.0	6.0	6.0	6.3	7.0	6.7	5.7	6.7	6.0	8.0	6.7	
BIRMINGHAM	6.4	6.3	8.0	6.0	90.7	95.7	5.7	5.7	5.7	6.0	6.7	7.3	6.0	6.7	6.0	7.7	6.7	
BRAVO 2	6.1	5.3	8.0	5.3	91.7	89.3	5.7	5.7	5.0	5.7	7.0	7.0	5.0	6.0	5.7	7.7	6.7	
BULLSEYE	6.4	5.7	8.0	5.3	93.7	94.3	6.0	6.0	6.0	6.7	6.7	7.0	5.7	6.0	6.0	7.7	6.7	
DLFPS-321/3696	6.7	5.3	8.7	5.3	94.0	95.3	6.7	6.7	6.7	6.7	7.3	7.0	5.3	7.0	6.0	7.7	6.7	
DLFPS-321/3699	6.8	6.7	8.0	4.3	92.0	96.7	6.7	6.7	6.3	6.7	7.0	7.7	6.0	7.3	6.0	8.0	6.7	

TABLE 24.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT KNOXVILLE, TN 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	PERCENT GROUND COVER			QUALITY RATINGS											
				SPRING	SUMMER	FALL	JAN	FEB	MAR	APR	JUN	JUL	AUG	OCT	NOV	DEC	MEAN	
DLFPS-321/3706	6.7	5.3	8.0	4.3	92.7	95.0	6.7	6.7	6.7	7.0	7.7	7.0	5.3	6.3	6.0	7.7	6.7	
DLFPS-321/3707	6.2	7.0	8.0	5.0	91.0	95.7	5.3	5.3	5.3	5.7	6.7	7.7	5.7	6.7	5.7	7.7	6.7	
ESCALADE	5.6	6.0	7.7	8.7	88.3	95.3	3.7	4.0	4.3	5.0	6.0	7.0	5.0	6.3	5.7	7.7	6.7	
FIREHAWK SLT	6.5	5.7	8.0	4.7	93.3	94.3	6.7	6.7	6.3	6.0	7.0	7.0	5.0	6.7	5.7	7.7	6.7	
GO-RH20	6.8	5.3	8.0	5.0	91.7	94.7	7.3	7.0	7.0	6.3	7.0	7.0	5.3	6.7	6.0	8.0	6.7	
GRAND PRIX (FC15-01P)	6.3	5.3	7.7	6.7	88.7	95.7	6.0	5.7	5.7	6.3	6.7	7.0	5.3	6.3	5.7	7.7	6.7	
HEMI	6.6	5.3	8.3	7.0	95.0	95.3	6.7	6.7	6.0	7.0	7.0	7.3	5.7	6.7	5.7	7.7	6.7	
JT 517	6.5	5.7	8.0	4.0	91.0	95.3	6.3	5.7	6.0	5.7	7.0	7.7	6.0	7.0	6.0	7.0	6.7	
K18-NSE	6.7	5.3	8.3	4.3	93.7	96.0	6.7	6.7	6.7	6.7	7.3	7.7	5.7	7.0	5.3	7.0	6.7	
K18-ROE	6.5	5.7	8.0	5.7	92.0	95.3	6.3	6.3	6.3	6.3	6.7	7.3	5.7	7.0	6.0	7.3	6.7	
LIFEGUARD	6.3	5.3	8.0	7.0	91.0	95.0	6.0	6.0	6.3	6.0	6.0	7.0	5.3	6.0	6.0	7.7	6.7	
DEGAS (LTP-TF-111)	6.4	7.3	8.0	4.7	90.0	96.3	6.0	6.0	6.0	6.0	6.7	7.7	5.3	6.7	6.0	7.3	6.7	
OKEEFE (LTP-TF-122)	6.5	6.3	8.7	4.7	95.0	95.3	6.3	6.3	5.7	6.0	7.0	7.3	5.7	7.0	6.0	7.3	6.7	
NAI-ROS4	6.7	5.3	7.7	5.3	90.0	94.3	7.3	7.3	7.0	6.3	7.0	7.0	5.0	6.3	6.0	8.0	6.7	
NAI-ST5	5.6	5.3	7.3	4.7	81.7	92.3	5.0	4.7	3.7	5.0	5.7	6.3	5.0	6.7	6.0	7.3	6.7	
NAI-TUE	5.6	6.3	8.0	6.3	87.3	90.7	5.0	4.3	3.7	5.0	6.0	7.0	4.7	6.3	5.7	7.3	6.7	
OG-WALK	6.2	5.3	8.0	7.7	90.7	95.3	5.7	5.3	5.3	6.0	6.7	7.0	5.3	6.3	6.0	7.3	6.7	
PPG-TF 244	5.5	5.3	7.7	5.3	89.3	96.0	5.0	4.7	4.3	4.7	5.7	6.0	5.0	6.0	5.7	7.3	6.7	
PPG-TF 308	5.8	4.7	8.0	4.0	91.0	89.7	5.3	5.0	5.0	5.3	7.0	5.7	5.0	6.3	5.3	7.0	6.7	
PPG-TF 313	6.6	5.0	8.3	5.0	94.3	95.3	7.0	6.7	6.3	6.3	7.0	7.3	5.0	6.7	6.0	7.7	6.7	
PPG-TF 315	6.7	5.7	8.0	4.0	93.3	94.7	6.3	6.3	6.3	6.7	7.3	7.3	5.7	7.0	6.0	8.0	6.7	
PPG-TF 316	6.6	5.3	8.0	4.3	93.3	93.7	7.0	6.7	6.7	6.3	7.0	6.3	5.0	6.7	6.0	8.0	6.7	
PPG-TF 318	6.4	5.3	8.3	5.3	93.3	94.3	6.3	6.3	6.3	6.0	7.0	7.3	4.7	7.0	5.7	7.3	6.7	
PPG-TF 336	6.8	5.3	8.3	4.3	94.0	96.3	7.3	6.7	6.7	6.7	7.3	7.3	6.0	6.3	6.0	7.7	6.7	
PPG-TF 337	6.3	6.3	8.3	4.7	92.7	96.7	5.7	5.7	6.0	6.0	6.3	7.7	5.7	7.0	5.3	7.7	6.7	
PPG-TF 338	6.5	6.0	8.0	5.7	92.0	94.7	6.3	6.3	6.0	6.7	7.7	7.3	5.3	7.0	6.0	5.7	6.7	
PST-5DZM	6.1	5.0	7.7	5.3	88.7	94.7	5.3	5.0	5.0	5.7	7.0	6.7	5.7	6.7	5.7	7.7	6.7	
PST-5GLBS	6.2	5.3	8.3	6.0	94.0	96.3	5.7	5.7	5.7	6.3	6.7	6.7	5.0	6.7	6.0	7.7	6.7	
PST-5GQ	5.7	4.7	7.7	5.7	87.7	90.7	5.0	4.7	4.7	5.0	6.7	5.7	4.7	6.3	6.0	7.7	6.7	
PST-5MCMO	6.7	5.3	8.7	5.0	94.0	95.3	6.7	6.7	6.7	6.7	7.3	7.0	5.7	6.7	5.7	7.7	6.7	
PST-5MINK	6.3	5.3	8.0	6.0	91.3	95.7	5.7	5.7	5.7	6.0	6.7	7.3	5.7	6.3	6.0	7.3	6.7	
PST-5THM	6.6	5.0	8.3	6.0	93.7	93.7	7.0	6.7	6.7	6.7	7.0	7.0	5.0	6.0	6.0	7.7	6.7	
RAPTOR III	6.6	6.0	8.3	7.0	94.3	96.3	6.0	6.3	6.3	6.7	7.3	7.7	6.0	6.7	5.7	7.7	6.7	
SE53D2	5.6	5.3	8.0	4.3	90.0	97.7	4.7	4.3	4.7	4.7	7.0	6.3	6.0	6.0	4.7	7.0	6.7	
SETF104	6.2	5.7	8.0	5.3	91.3	92.0	5.7	5.7	5.3	6.0	7.0	7.0	5.0	6.7	6.0	7.3	6.7	
SETFM2	6.5	5.7	8.0	5.0	91.3	94.3	6.7	6.0	6.0	6.0	7.3	7.3	5.7	7.3	6.0	7.0	6.7	
TF456	6.0	5.7	7.7	5.0	86.3	92.3	6.0	5.7	5.3	6.0	6.7	7.0	5.3	6.0	5.3	6.3	6.7	
TMT1	6.4	6.0	8.0	4.3	93.3	95.0	5.3	5.7	5.3	6.3	7.0	7.3	5.7	7.0	6.3	7.7	6.7	
ZRC1	6.9	5.7	8.0	4.3	90.0	97.3	7.3	7.3	7.3	6.3	7.3	7.3	5.7	6.7	6.0	7.7	6.7	
AST8118LM	6.4	5.3	8.0	4.7	90.3	88.0	6.3	6.0	5.7	6.3	7.3	7.0	5.0	6.7	5.7	7.7	6.3	
AST8218LM	6.4	5.0	8.0	5.0	91.0	93.3	6.3	6.3	6.3	6.3	7.7	6.3	5.3	6.3	5.7	7.7	6.3	
BAR 9FE MAS	5.8	5.7	7.7	5.7	89.3	87.7	5.0	4.7	4.7	5.3	7.0	6.0	5.0	6.7	5.7	7.7	6.3	
BAR TF 134	6.1	5.7	8.0	5.0	92.3	95.0	5.7	5.3	5.0	6.0	7.0	6.7	5.7	7.0	5.7	7.0	6.3	
BY-TF-169	6.7	5.3	8.3	4.0	95.0	95.0	6.7	6.7	7.0	6.7	7.3	7.0	5.7	6.7	5.7	7.7	6.3	
DLFPS-321/3695	6.6	5.7	8.7	5.0	96.0	95.7	6.7	6.7	6.0	6.7	7.3	7.0	5.3	7.0	6.0	7.7	6.3	

TABLE 24.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT KNOXVILLE, TN 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	PERCENT GROUND COVER			QUALITY RATINGS										
				SPRING	SUMMER	FALL	JAN	FEB	MAR	APR	JUN	JUL	AUG	OCT	NOV	DEC	MEAN
DLFPS-321/3701	6.2	5.3	8.3	4.7	90.0	93.7	6.3	6.0	6.3	5.7	6.7	6.7	5.0	6.3	5.7	7.3	6.3
DLFPS-321/3705	6.1	7.0	8.3	5.3	91.7	97.7	5.0	5.0	5.0	5.3	7.0	7.7	5.7	6.7	5.7	7.3	6.3
DLFPS-TF/3553	6.0	6.0	8.0	5.0	87.3	94.0	4.7	5.0	5.3	5.7	6.7	7.3	5.3	6.7	5.7	7.7	6.3
DRAGSTER	6.4	6.0	8.3	4.0	91.0	96.0	6.0	5.7	5.3	6.3	7.0	7.7	5.7	7.0	5.7	7.7	6.3
FAYETTE	6.1	4.3	8.3	5.3	91.7	83.7	6.0	6.3	6.0	6.7	7.0	5.3	4.3	6.3	5.7	7.3	6.3
NAI-FQZ-17	6.1	4.7	7.7	6.0	88.3	87.0	6.3	6.3	6.3	6.0	6.3	6.0	4.7	5.7	5.7	7.3	6.3
PARAMOUNT	6.4	6.0	8.3	5.0	92.3	94.3	6.0	6.3	6.0	5.7	7.0	7.0	5.7	7.0	5.7	7.3	6.3
PPG-TF 231	6.5	5.0	8.3	5.3	92.7	96.3	6.3	6.3	7.0	6.7	7.0	7.0	5.7	6.3	5.7	7.7	6.3
PPG-TF 306	6.5	6.7	8.3	5.3	94.7	94.7	6.7	6.0	6.0	6.7	7.3	7.3	5.3	6.7	5.7	7.7	6.3
PPG-TF 320	5.9	6.3	7.7	6.7	88.3	96.7	5.3	5.0	4.7	5.3	6.0	7.0	5.3	6.7	6.0	7.3	6.3
PPG-TF 323	6.2	7.3	8.0	4.7	92.3	91.3	6.0	5.7	5.3	5.3	6.7	7.3	5.0	7.0	6.0	7.0	6.3
PRO GOLD	6.5	5.7	8.3	5.0	94.7	95.3	7.0	6.0	6.0	6.7	7.3	7.0	5.3	6.3	6.0	7.7	6.3
PST-5BYOB	6.4	5.3	8.3	5.7	94.7	94.3	6.0	6.0	6.7	6.3	7.0	7.0	5.7	6.3	5.7	7.0	6.3
PST-5DC24	6.3	5.0	8.3	4.3	94.0	94.7	6.3	6.0	5.3	6.3	8.0	6.7	5.3	6.7	5.3	7.3	6.3
PST-5E6	6.4	5.0	8.3	7.0	93.3	96.3	6.3	6.3	6.0	6.3	7.0	7.0	5.0	6.7	6.0	7.3	6.3
PST-5TRN	5.9	5.7	8.3	6.0	92.3	92.0	5.0	4.7	5.0	5.3	7.0	6.7	4.7	7.0	6.0	7.7	6.3
RAD-TF105	6.4	6.3	8.0	4.0	89.3	96.7	5.3	5.7	6.0	6.3	6.7	7.7	5.7	6.7	6.0	8.0	6.3
RAD-TF131	6.1	4.7	8.0	6.3	92.0	94.7	5.3	5.3	5.0	6.0	7.3	6.3	5.3	6.7	5.7	7.3	6.3
RC4	6.4	6.0	8.3	4.7	92.7	96.3	5.3	5.3	5.3	6.0	7.3	7.7	6.0	7.0	6.0	7.7	6.3
SETFM3	6.2	5.3	7.7	3.7	86.7	95.3	6.0	5.7	5.0	6.0	7.0	7.0	5.3	6.7	5.7	7.3	6.3
TANGO	6.3	5.7	8.3	7.7	92.7	93.0	6.0	6.0	5.7	6.3	7.3	6.7	5.0	6.3	6.0	8.0	6.3
TURBO SS	6.5	6.0	8.0	4.0	92.0	95.0	6.3	6.0	6.0	6.3	7.3	7.3	6.0	7.0	5.7	7.3	6.3
3B2	5.8	5.0	8.0	6.3	89.3	90.7	4.7	4.7	5.0	5.7	6.7	6.7	4.7	7.0	5.7	7.7	6.0
5LSS	6.1	6.0	8.3	2.7	92.0	96.7	5.7	5.3	5.3	5.7	7.0	7.0	5.3	6.0	5.7	7.7	6.0
ATF2116	6.3	6.0	8.0	5.3	89.7	96.0	6.0	6.0	6.0	6.0	6.7	7.3	6.0	6.7	6.0	6.3	6.0
DLFPS-321/3679	6.3	5.7	8.0	5.0	92.3	93.7	6.7	6.3	6.0	6.0	6.3	7.3	5.7	6.7	5.7	7.0	6.0
DLFPS-321/3702	6.4	5.7	8.3	5.0	93.3	97.3	6.0	6.0	6.0	6.3	7.3	7.3	6.0	7.0	5.7	7.0	6.0
DLFPS-TF/3550	6.3	6.0	8.7	4.0	94.3	96.3	5.7	5.7	6.0	5.7	6.7	7.3	6.0	6.7	6.0	7.3	6.0
JT 268	5.3	5.7	7.3	4.0	82.0	86.3	4.7	4.0	3.7	5.3	5.7	6.0	4.3	6.3	5.3	7.0	6.0
K18-WB1	5.9	5.7	8.0	5.7	92.3	94.7	5.0	4.7	4.3	5.7	7.0	6.3	5.7	6.7	6.0	7.7	6.0
LBF	6.4	6.3	8.0	3.0	90.0	92.0	6.3	6.3	6.0	6.3	6.7	7.3	4.7	7.0	6.0	7.3	6.0
MOONDANCE GLX	5.4	5.3	7.3	4.0	83.0	96.7	4.3	4.0	4.0	4.7	5.7	7.3	5.0	6.3	5.3	6.7	6.0
PALOMAR	5.8	5.0	7.7	8.0	86.0	92.7	5.0	5.0	5.0	5.7	6.3	6.3	5.3	6.3	5.7	7.7	6.0
PPG-TF 238	6.2	5.3	8.3	5.3	93.3	93.7	5.7	5.7	5.3	5.7	6.7	7.0	5.7	7.0	5.7	7.3	6.0
RHF	6.4	5.0	8.0	6.7	93.0	96.0	6.7	6.3	6.3	6.3	7.0	6.3	5.3	6.7	6.0	7.0	6.0
TF445	6.4	6.0	8.3	5.7	94.3	96.3	6.3	6.3	6.3	6.0	7.0	7.3	5.7	6.3	6.0	7.3	6.0
GLX ACED (PST-5DART)	6.1	6.3	8.3	6.0	93.7	96.3	5.7	5.7	5.0	5.3	6.7	7.3	5.7	6.7	6.0	7.0	5.7
PPG-TF 262	6.4	5.7	8.0	4.3	92.3	95.0	6.0	6.0	6.3	6.7	7.3	7.3	5.7	6.7	5.3	7.3	5.7
ESTRENA	6.2	5.0	8.3	3.7	94.0	93.3	6.0	6.0	5.7	6.7	7.7	6.7	5.0	6.3	5.3	7.7	5.0
KENTUCKY-31	5.9	3.7	8.3	6.0	89.3	85.0	6.3	6.7	6.7	5.7	5.7	6.0	3.7	5.7	6.0	7.3	5.0
PST-5SQB	5.4	5.3	8.3	5.3	92.0	95.3	4.3	4.7	4.7	5.3	7.0	6.7	5.0	5.0	4.3	7.3	5.0
BANDIT	5.6	5.3	8.0	5.0	91.7	96.0	4.3	4.7	4.7	6.3	5.3	7.3	5.7	6.0	4.7	7.7	4.7
LSD VALUE	5.0	1.8	3.2	12.3	14.1	24.9	6.2	4.8	3.7	5.1	3.4	3.2	1.7	3.0	3.0	2.4	1.4
C.V. (%)	18.0	5.9	26.7	4.4	4.2	5.0	22.2	21.0	20.9	16.6	11.5	11.4	11.5	9.5	9.4	10.7	7.9

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

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

TABLE 25.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LOGAN, UT 1/
2019 DATA

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

NAME	QUALITY RATINGS											MEAN
	GENETIC COLOR	LEAF TEXTURE	SEEDLING VIGOR	FALL DENSITY	COLOR NOVEMBER	JUN	JUL	AUG	SEP	OCT		
AH1	7.3	6.3	6.0	8.3	3.0	7.3	8.3	8.7	8.3	8.7	8.3	
PPG-TF 308	7.3	6.3	5.3	8.3	3.3	7.7	9.0	8.0	8.7	8.3	8.3	
RAD-TF105	7.0	6.0	5.0	8.0	3.0	7.3	8.7	8.7	8.3	8.7	8.3	
TURBO SS	8.7	5.7	5.3	8.0	3.0	7.3	8.3	8.3	8.7	8.7	8.3	
AST8218LM	7.7	5.7	4.7	8.0	3.3	6.7	8.7	8.7	8.7	8.3	8.2	
NAI-3N2	8.0	5.7	5.3	8.3	3.0	7.3	8.0	8.7	8.7	8.3	8.2	
PPG-TF 305	7.3	6.7	5.3	8.3	3.3	7.3	8.7	8.3	8.3	8.3	8.2	
SETF104	7.7	5.7	5.3	8.0	3.0	7.3	8.7	8.3	8.3	8.3	8.2	
TF456	7.3	6.0	5.7	8.3	3.0	7.3	8.3	8.3	8.3	8.7	8.2	
ATF1768	7.0	6.0	5.0	8.0	3.0	8.0	8.3	8.0	8.3	8.0	8.1	
BGR-TF3	8.0	6.3	5.3	8.0	3.0	7.0	8.3	8.0	8.7	8.3	8.1	
BULLSEYE LTZ	7.3	6.0	5.3	8.3	3.0	7.3	8.7	8.0	8.3	8.0	8.1	
BY-TF-169	7.0	6.3	4.7	8.3	3.0	7.3	9.0	7.7	8.3	8.0	8.1	
DLFPS-321/3701	7.0	6.3	5.0	8.3	3.0	7.3	9.0	8.3	8.0	8.0	8.1	
DLFPS-321/3702	7.0	6.3	5.3	8.3	3.0	7.3	8.7	8.0	8.7	8.0	8.1	
DLFPS-321/3705	7.3	6.3	5.0	8.0	3.0	7.3	8.3	8.3	8.0	8.3	8.1	
DLFPS-321/3708	8.0	6.0	5.3	8.0	3.0	7.0	8.3	8.7	8.7	8.0	8.1	
DLFPS-TF/3552	7.0	5.7	5.7	8.3	3.0	7.0	8.3	8.3	8.3	8.7	8.1	
GO-RH20	7.7	6.0	5.3	8.0	3.0	7.0	8.3	7.7	8.7	8.7	8.1	
JT 268	7.3	6.7	4.7	8.3	3.0	7.0	8.7	8.3	8.7	8.0	8.1	
K18-RS6	6.7	6.3	5.3	8.3	3.0	8.0	8.3	7.7	8.3	8.0	8.1	
K18-WB1	7.3	6.3	5.0	9.0	3.3	7.3	8.0	8.0	8.7	8.3	8.1	
DEGAS (LTP-TF-111)	6.7	6.0	4.7	8.7	3.0	7.0	9.0	8.3	8.0	8.0	8.1	
NAI-ROS4	7.0	6.3	5.7	8.0	3.0	7.3	9.0	8.0	8.3	8.0	8.1	
NAI-ST5	7.7	6.3	5.3	8.0	3.3	7.0	8.7	7.7	8.3	8.7	8.1	
PADRE 2	7.3	6.0	4.7	8.0	3.0	7.7	8.7	8.0	8.0	8.3	8.1	
PPG-TF 255	7.7	6.7	5.3	8.7	3.0	7.3	8.7	7.7	8.7	8.3	8.1	
PPG-TF 262	7.0	5.7	5.3	8.3	3.0	7.3	8.7	8.0	8.3	8.3	8.1	
PPG-TF 312	6.7	7.0	5.7	8.7	3.3	7.7	8.7	7.7	8.0	8.3	8.1	
PPG-TF 313	6.7	6.7	5.0	8.7	3.3	7.0	8.3	8.0	8.3	9.0	8.1	
PPG-TF 316	7.0	7.3	5.3	8.3	3.0	7.3	8.3	8.3	8.3	8.0	8.1	
PPG-TF 318	7.7	6.0	5.3	8.3	3.0	7.0	8.7	8.3	8.3	8.0	8.1	
PPG-TF 323	7.7	6.3	5.0	8.7	3.3	6.3	8.7	8.0	8.7	8.7	8.1	
PRO GOLD	6.7	5.3	5.0	7.7	3.0	6.7	9.0	8.3	8.3	8.3	8.1	
RAPTOR III	7.3	6.0	5.0	8.0	3.0	7.0	9.0	8.3	8.3	8.0	8.1	
RC4	7.0	6.3	5.3	8.3	3.0	7.3	8.3	8.3	8.0	8.3	8.1	
RDC	6.3	6.7	6.0	8.3	3.0	7.3	8.7	8.0	8.3	8.3	8.1	
RH3	6.3	6.3	5.3	8.0	3.0	7.3	8.7	8.0	8.0	8.3	8.1	
RHL2	7.3	6.7	5.3	8.3	3.0	6.7	8.7	8.3	8.7	8.3	8.1	
DLFPS-321/3693	7.3	7.0	5.3	8.0	3.0	7.3	8.7	7.3	8.0	8.7	8.0	
DRAGSTER	7.0	6.3	5.3	8.3	3.0	6.7	8.3	8.3	8.3	8.3	8.0	
ESTRENA	6.7	6.3	5.0	8.0	3.0	7.3	8.3	7.7	8.3	8.3	8.0	
FIREHAWK SLT	7.3	6.3	5.0	8.0	3.0	6.7	8.0	8.3	8.7	8.3	8.0	
GO-AOMK	8.0	6.0	4.7	8.0	3.3	6.0	8.3	8.7	8.7	8.3	8.0	
HEMI	6.7	5.7	5.7	7.7	3.0	7.3	8.7	8.0	8.0	8.0	8.0	

TABLE 25.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LOGAN, UT 1/
2019 DATA

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

NAME	QUALITY RATINGS											MEAN
	GENETIC COLOR	LEAF TEXTURE	SEEDLING VIGOR	FALL DENSITY	COLOR NOVEMBER	JUN	JUL	AUG	SEP	OCT		
K18-NSE	7.3	7.0	5.7	8.7	3.0	7.0	8.7	7.7	8.3	8.3	8.0	
NT-3	7.3	6.3	5.3	8.3	3.0	7.3	8.7	8.0	8.0	8.0	8.0	
RAD-TF131	7.7	6.3	4.7	8.0	3.0	6.7	7.7	8.3	8.7	8.7	8.0	
RH1	7.7	6.0	5.3	8.0	3.3	7.0	8.3	8.0	8.3	8.3	8.0	
TD2	7.0	6.3	5.7	8.0	3.0	7.3	8.3	8.3	8.0	8.0	8.0	
5LSS	6.7	6.7	5.3	8.0	3.0	7.7	8.7	7.3	8.0	8.0	7.9	
ATF2116	7.7	6.0	4.7	7.3	3.0	6.7	8.3	7.7	8.3	8.3	7.9	
BAR TF 134	7.0	6.0	4.7	7.7	3.3	6.3	8.7	8.0	8.3	8.0	7.9	
BAR-FA8230	6.0	5.7	5.3	7.7	3.0	7.0	8.7	8.3	8.0	7.3	7.9	
BIRMINGHAM	7.3	6.0	5.0	7.7	3.0	7.0	8.0	7.7	8.3	8.3	7.9	
BRAVO 2	7.7	5.7	5.3	8.0	3.0	7.0	8.3	8.0	8.3	8.0	7.9	
BULLSEYE	6.7	5.0	4.0	7.7	3.3	7.0	8.3	8.0	8.0	8.0	7.9	
COPIOUS TF	8.0	5.7	5.0	8.0	3.0	6.7	8.0	8.0	8.3	8.3	7.9	
DLFPS-321/3694	7.0	6.7	5.3	8.0	3.0	7.3	8.0	8.0	8.3	8.0	7.9	
DLFPS-321/3695	8.0	6.3	5.7	8.3	3.0	7.0	8.0	8.3	8.3	8.0	7.9	
DLFPS-321/3696	7.7	5.7	5.3	8.3	3.0	6.7	8.7	8.3	8.0	8.0	7.9	
DLFPS-321/3699	7.3	6.0	4.7	8.3	3.0	7.0	8.0	8.0	8.3	8.0	7.9	
DLFPS-321/3706	6.7	6.7	5.3	9.0	3.0	7.0	8.3	7.7	8.3	8.3	7.9	
GRANDE 3	6.3	6.0	5.7	8.3	3.0	7.3	8.7	7.7	8.0	8.0	7.9	
BONFIRE (JS DTT)	6.3	5.7	5.7	8.0	3.3	7.3	8.3	7.7	8.3	8.0	7.9	
LBF	7.7	6.0	4.7	8.0	3.0	6.7	8.0	8.0	8.3	8.3	7.9	
LIFEGUARD	6.3	6.0	5.0	8.0	3.0	7.3	8.7	7.3	8.0	8.0	7.9	
NAI-FQZ-17	8.0	5.7	4.7	8.0	3.0	6.3	8.7	8.0	8.3	8.0	7.9	
NAI-TUE	7.3	6.3	5.3	8.0	3.0	6.3	8.0	8.0	8.7	8.7	7.9	
NATURALLY GREEN	7.3	6.3	4.7	7.7	3.0	6.7	8.0	8.0	8.7	8.0	7.9	
PPG-TF 231	7.0	6.0	5.3	8.7	3.0	7.0	8.0	7.7	8.7	8.0	7.9	
PPG-TF 238	7.0	6.0	5.3	8.3	2.7	7.0	8.3	8.0	8.0	8.0	7.9	
PPG-TF 244	7.3	6.0	4.7	8.3	3.3	6.3	8.3	8.0	8.3	8.3	7.9	
PPG-TF 249	7.0	6.3	5.0	8.3	3.0	7.3	8.0	8.0	8.3	8.0	7.9	
PPG-TF 257	6.7	6.0	5.3	8.0	3.0	6.7	8.3	7.7	8.3	8.3	7.9	
PPG-TF 306	7.3	6.3	5.0	8.0	3.0	7.0	8.3	8.0	8.0	8.3	7.9	
PPG-TF 315	7.3	6.0	4.7	8.3	3.0	6.3	7.3	8.7	8.7	8.3	7.9	
PPG-TF 320	7.0	5.7	5.3	8.0	3.0	7.0	8.0	7.7	8.3	8.7	7.9	
PPG-TF 336	6.7	6.3	5.0	8.0	3.0	7.0	8.0	8.0	8.3	8.0	7.9	
PPG-TF 337	7.0	6.7	5.3	8.3	3.0	7.3	8.3	8.0	8.0	8.0	7.9	
PPG-TF 338	7.7	6.3	4.7	8.0	3.0	7.3	8.3	7.7	8.0	8.0	7.9	
PST-5BYOB	6.3	5.0	5.7	7.3	3.0	7.3	8.7	7.7	8.0	7.7	7.9	
PST-5DC24	7.0	6.0	5.0	8.0	3.0	7.0	8.0	8.3	8.0	8.0	7.9	
PST-5GQ	7.0	5.7	5.3	7.7	2.7	7.0	8.7	7.7	8.0	8.3	7.9	
RHF	6.3	6.3	5.3	8.0	3.0	7.3	8.3	7.7	8.0	8.0	7.9	
RS1	6.7	6.3	5.3	8.0	3.0	7.3	7.7	8.3	8.0	8.3	7.9	
SESCR1	7.7	6.0	5.0	8.0	3.3	6.3	8.0	8.0	8.3	8.7	7.9	
TANGO	6.7	6.0	5.0	8.0	3.0	7.7	8.3	7.7	8.0	8.0	7.9	
TF445	7.0	6.3	5.7	9.0	3.0	7.0	8.7	7.7	8.0	8.0	7.9	
TMT1	7.0	6.3	5.3	8.0	3.3	7.0	8.0	8.0	8.7	8.0	7.9	

TABLE 25.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LOGAN, UT 1/
2019 DATA

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

NAME	QUALITY RATINGS											MEAN
	GENETIC COLOR	LEAF TEXTURE	SEEDLING VIGOR	FALL DENSITY	COLOR NOVEMBER	JUN	JUL	AUG	SEP	OCT		
3N1	7.3	6.0	4.7	8.0	3.0	6.3	8.7	8.0	8.0	8.0	7.8	
BANDIT	7.3	6.7	5.0	8.0	3.0	6.3	8.3	8.0	8.3	8.0	7.8	
PST-5E6	6.3	5.0	5.0	7.3	2.7	6.7	8.3	8.0	8.0	8.0	7.8	
PST-5MCMO	6.7	6.0	5.0	7.7	3.0	6.7	8.0	8.0	8.0	8.3	7.8	
PST-5SQB	6.3	5.0	5.3	7.7	3.0	7.0	8.3	7.7	8.0	8.0	7.8	
PST-5TRN	6.0	5.7	5.0	7.7	3.0	6.7	8.7	7.7	8.0	8.0	7.8	
3B2	6.7	5.7	4.3	8.3	3.0	6.7	7.7	8.0	8.3	8.0	7.7	
A-TF31	7.7	6.3	4.3	7.7	2.7	6.3	7.3	8.0	8.7	8.3	7.7	
AH2	7.0	6.3	5.7	8.0	3.0	7.3	7.0	8.0	8.0	8.0	7.7	
BAR 9FE MAS	7.0	6.0	4.7	8.0	3.0	6.3	7.7	8.3	8.0	8.3	7.7	
COL-TF-148	7.3	6.3	4.3	8.0	3.0	6.0	7.7	8.0	8.7	8.3	7.7	
DLFPS-321/3679	7.3	5.7	5.0	7.7	3.3	7.0	7.3	7.7	8.3	8.0	7.7	
DLFPS-321/3703	7.3	5.7	4.7	8.0	3.0	6.3	8.0	8.0	8.3	8.0	7.7	
DLFPS-321/3707	7.0	6.3	4.3	8.0	3.3	6.7	8.0	7.3	8.0	8.3	7.7	
DLFPS-TF/3550	6.7	5.7	5.0	8.3	3.0	6.7	8.0	7.7	8.0	8.0	7.7	
DLFPS-TF/3553	7.0	6.0	5.0	8.0	3.7	6.7	8.0	7.7	7.7	8.3	7.7	
FAYETTE	7.0	6.0	5.0	8.0	3.0	6.3	7.3	8.7	8.0	8.0	7.7	
GRAND PRIX (FC15-01P)	6.7	6.3	4.0	8.0	3.0	6.3	8.3	8.0	8.0	8.0	7.7	
JT 517	7.7	6.3	4.3	8.0	3.3	6.3	7.7	8.0	8.3	8.0	7.7	
K18-ROE	6.7	5.7	5.3	7.7	3.0	6.7	8.0	8.0	8.0	8.0	7.7	
OKEEFE (LTP-TF-122)	7.0	6.3	4.3	8.0	3.7	6.3	8.3	7.7	8.0	8.0	7.7	
MOONDANCE GLX	6.0	4.7	4.7	7.7	3.0	7.0	8.0	7.7	8.0	8.0	7.7	
PARAMOUNT	6.0	6.0	5.0	8.7	3.0	7.0	7.3	7.7	8.0	8.3	7.7	
PPG-TF 267	6.7	6.3	4.7	8.3	2.7	6.7	7.7	7.7	8.0	8.3	7.7	
PST-5DZM	7.3	6.0	4.7	8.0	3.0	6.3	8.7	7.7	8.3	7.7	7.7	
PST-5THM	5.7	6.0	5.0	7.7	3.0	7.3	8.0	7.7	7.7	8.0	7.7	
SETFM2	8.0	6.0	4.7	8.0	3.3	6.7	7.3	8.0	8.3	8.0	7.7	
SETFM3	7.3	5.7	5.0	7.7	3.0	6.3	8.0	7.7	8.3	8.0	7.7	
ZRC1	6.3	6.3	5.3	8.0	3.0	7.3	8.0	7.7	8.0	7.7	7.7	
AST8118LM	7.7	6.3	4.3	8.0	3.3	6.3	7.7	8.0	8.0	8.0	7.6	
GLX ACED (PST-5DART)	6.7	5.3	5.0	7.7	3.0	6.7	8.0	7.3	8.0	8.0	7.6	
JT 233	7.3	6.3	4.3	8.0	3.3	6.7	7.3	7.7	8.0	8.3	7.6	
PALOMAR	7.0	5.3	4.0	7.3	3.0	6.0	8.0	8.0	8.0	8.0	7.6	
PPG-TF 254	6.7	5.3	4.7	7.7	3.0	6.3	8.3	7.7	7.7	8.0	7.6	
PST-5MINK	7.0	6.0	4.3	8.0	3.0	6.0	8.0	8.0	8.0	8.0	7.6	
SE5STAR	6.3	6.0	5.0	8.0	3.0	6.3	8.3	7.3	8.0	8.0	7.6	
BAR FA 8228	6.3	5.3	5.0	7.7	3.0	6.7	8.0	7.3	8.0	7.7	7.5	
ESCALADE	6.3	5.0	5.0	7.7	3.0	7.0	8.0	7.3	8.0	7.3	7.5	
PST-5GLBS	6.3	5.7	5.3	7.7	3.0	6.7	7.7	7.7	8.0	7.7	7.5	
OG-WALK	6.7	4.3	4.7	7.0	3.0	6.0	7.0	8.0	8.0	8.0	7.4	
SE53D2	6.0	5.0	4.3	7.7	3.0	6.0	7.3	7.3	7.7	8.0	7.3	
KENTUCKY-31	3.3	4.3	5.7	6.0	2.0	8.3	7.0	7.0	7.0	6.0	7.1	
LSD VALUE	1.1	0.8	1.2	1.0	0.7	1.4	2.8	1.7	1.2	1.0	0.7	
C.V. (%)	8.7	7.8	10.8	6.1	8.9	9.0	8.9	6.6	5.1	5.4	3.8	

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LOGAN (DROUGHT), UT 1/
2019 DATA

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

NAME	PERCENT GROUND COVER			PINK SNOW MOLD	APR	MAY	QUALITY RATINGS					MEAN
	SPRING	SUMMER	FALL				JUN	JUL	AUG	SEP	OCT	
PPG-TF 249	99	99.0	96.0	4.0	6.3	7.0	6.3	8.7	7.0	8.3	8.0	7.4
PPG-TF 306	99	99.0	96.0	4.7	6.0	5.7	6.0	9.0	8.0	8.7	8.0	7.3
BANDIT	99	99.0	89.3	5.0	6.3	5.0	6.0	8.3	7.7	8.0	7.3	7.0
DRAGSTER	99	96.0	99.0	3.3	6.3	5.3	6.0	8.0	7.7	7.7	7.7	7.0
PPG-TF 315	99	92.7	93.0	4.0	6.3	6.3	7.0	7.3	7.3	7.3	7.0	7.0
AH1	99	89.7	96.0	4.0	6.0	5.7	6.3	7.7	7.0	7.7	7.7	6.9
COPIOUS TF	99	92.7	92.7	5.7	5.7	5.3	6.0	8.3	7.3	8.0	7.7	6.9
JT 268	99	96.0	96.0	4.0	5.7	4.7	6.3	8.3	7.7	7.7	7.7	6.9
PPG-TF 305	99	99.0	92.7	4.7	5.3	5.7	6.0	8.3	7.7	8.0	7.3	6.9
PPG-TF 316	99	99.0	93.0	4.3	5.7	5.3	6.0	8.3	7.7	7.7	7.3	6.9
ZRC1	99	96.0	99.0	4.3	5.7	5.7	6.0	7.3	7.7	8.0	7.7	6.9
PPG-TF 244	99	92.7	93.0	4.0	5.7	5.7	6.0	7.7	6.7	8.3	7.3	6.8
PPG-TF 255	99	89.7	83.0	4.3	6.0	6.7	6.3	7.3	6.7	7.3	7.3	6.8
PPG-TF 262	99	89.3	99.0	5.0	5.7	5.0	5.3	8.0	7.7	8.0	7.7	6.8
SETFM2	99	92.7	96.0	4.0	6.3	5.0	6.0	8.0	7.3	7.3	7.3	6.8
3N1	99	93.0	99.0	5.3	5.0	5.3	5.7	8.3	7.0	7.7	7.7	6.7
AH2	99	79.7	96.0	4.0	6.7	6.3	5.7	7.0	6.7	7.3	7.0	6.7
BAR TF 134	99	86.7	96.0	3.3	6.7	5.3	6.3	7.7	6.7	6.7	7.3	6.7
BAR-FA8230	99	86.3	96.0	3.7	6.0	6.0	5.7	7.3	7.0	7.3	7.7	6.7
K18-NSE	99	86.3	93.0	3.7	6.3	6.0	6.7	7.3	6.7	7.0	7.0	6.7
NAI-3N2	99	93.0	92.7	3.7	5.7	6.0	5.7	7.7	6.7	7.7	7.3	6.7
NAI-ROS4	99	86.3	92.7	4.7	6.0	5.3	6.0	7.0	7.3	7.3	7.7	6.7
PPG-TF 257	99	93.0	99.0	5.7	5.3	4.7	6.3	7.3	7.3	7.7	8.0	6.7
PST-5TRN	99	92.7	96.0	5.0	5.7	5.0	6.0	8.3	7.0	7.3	7.7	6.7
BIRMINGHAM	99	86.7	92.7	4.7	6.3	5.7	6.0	7.0	6.3	7.7	7.0	6.6
BY-TF-169	99	89.7	92.7	5.0	6.0	5.3	6.0	7.3	6.7	7.3	7.3	6.6
DLFPS-321/3693	99	86.7	86.7	3.7	7.0	7.3	6.7	6.7	6.0	6.0	6.7	6.6
DLFPS-321/3696	99	92.7	76.7	4.3	6.7	7.0	6.7	7.3	6.0	6.3	6.3	6.6
FIREHAWK SLT	99	83.0	96.0	4.7	5.7	5.3	6.3	7.7	7.0	7.0	7.3	6.6
DEGAS (LTP-TF-111)	99	89.3	96.0	4.3	6.3	5.3	6.0	7.3	6.7	7.0	7.7	6.6
PADRE 2	99	86.3	89.7	4.3	6.0	5.7	6.0	7.7	6.7	7.0	7.0	6.6
PPG-TF 238	99	92.7	86.3	5.0	5.7	5.0	6.3	8.3	6.7	7.3	7.0	6.6
PPG-TF 254	99	86.0	83.0	3.7	6.7	6.0	6.0	7.3	6.7	7.0	6.7	6.6
PPG-TF 267	99	86.3	83.0	5.3	6.3	5.7	6.0	7.0	6.7	7.3	7.0	6.6
PPG-TF 323	99	93.0	59.7	4.3	5.7	6.0	6.3	7.0	7.0	7.0	7.0	6.6
PPG-TF 337	99	93.0	86.3	4.0	5.7	5.7	6.0	7.7	6.7	7.0	7.3	6.6
PST-5DC24	99	89.3	96.0	5.3	5.3	5.0	6.0	7.3	7.3	7.3	7.7	6.6
PST-5GQ	99	93.0	96.0	5.3	5.3	5.3	6.3	7.7	7.3	7.0	7.3	6.6
RAPTOR III	99	86.3	99.0	4.3	6.0	5.7	5.7	7.3	6.7	7.3	7.3	6.6
RC4	99	99.0	99.0	4.3	4.7	4.3	6.0	8.3	7.7	7.7	7.7	6.6
RHL2	99	86.3	99.0	5.7	5.7	5.3	7.0	7.7	6.7	6.7	7.3	6.6
5LSS	99	93.0	89.7	4.0	5.7	5.7	6.0	7.7	6.0	7.0	7.3	6.5
BULLSEYE LTZ	99	83.0	86.3	4.3	5.7	6.0	6.7	7.3	6.3	6.7	7.0	6.5
COL-TF-148	99	79.7	93.0	3.0	6.0	5.7	6.3	6.3	6.7	7.0	7.3	6.5
DLFPS-321/3679	99	96.0	83.0	3.7	6.0	5.7	6.0	7.3	6.3	7.3	6.7	6.5

TABLE 26.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LOGAN (DROUGHT), UT 1/
2019 DATA

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

NAME	PERCENT GROUND COVER			PINK SNOW MOLD	APR	MAY	QUALITY RATINGS					MEAN
	SPRING	SUMMER	FALL				JUN	JUL	AUG	SEP	OCT	
DLFPS-321/3699	99	86.7	80.0	3.3	6.7	6.7	6.7	7.3	5.7	6.0	6.3	6.5
DLFPS-321/3701	99	80.0	86.3	4.3	6.0	6.0	6.3	7.7	6.3	6.3	6.7	6.5
DLFPS-321/3706	99	92.7	92.7	4.7	5.3	4.7	6.0	7.7	6.7	7.7	7.3	6.5
DLFPS-321/3708	99	89.7	99.0	4.3	5.7	4.7	5.7	7.3	6.7	7.3	8.0	6.5
DLFPS-TF/3553	99	89.7	83.3	4.0	6.7	6.7	6.0	7.0	6.0	6.3	6.7	6.5
GLX ACED (PST-5DART)	99	90.0	92.7	4.7	6.3	5.7	5.7	7.3	6.0	7.0	7.3	6.5
JT 233	99	79.7	83.0	3.7	6.3	6.7	6.7	6.7	5.7	6.7	6.7	6.5
K18-RS6	99	80.0	92.7	4.0	6.3	5.7	5.7	7.0	6.3	7.0	7.3	6.5
LBF	99	89.7	89.3	4.7	6.7	6.7	6.0	7.0	6.0	6.3	7.0	6.5
OKEEFE (LTP-TF-122)	99	83.0	86.3	4.3	6.0	5.7	6.0	7.0	6.3	7.3	7.3	6.5
NAI-ST5	99	79.7	96.0	5.0	5.7	6.0	6.3	6.7	6.3	7.3	7.0	6.5
NT-3	99	79.7	92.7	4.3	5.7	5.3	6.3	7.3	6.3	7.0	7.7	6.5
PPG-TF 231	99	89.3	96.0	5.0	5.7	5.3	6.0	7.3	6.7	7.3	7.3	6.5
PPG-TF 318	99	69.7	92.7	3.3	7.0	5.7	6.3	6.3	6.3	6.7	7.3	6.5
PPG-TF 320	99	76.3	96.0	3.3	6.0	5.7	6.0	6.7	6.3	7.3	7.7	6.5
PPG-TF 336	99	89.7	92.7	4.7	5.7	5.0	6.0	7.3	6.7	7.3	7.3	6.5
PRO GOLD	99	86.3	92.7	4.3	5.7	5.3	6.0	7.3	6.7	7.3	7.3	6.5
PST-5MCMO	99	89.7	96.0	4.3	6.3	5.7	6.0	7.3	6.7	6.7	7.0	6.5
RHF	99	92.7	92.7	4.7	5.7	5.3	6.0	7.7	6.3	7.3	7.3	6.5
SETFM3	99	83.3	96.0	4.0	5.7	4.7	6.0	7.7	6.7	7.7	7.3	6.5
TD2	99	86.0	86.3	4.3	6.3	6.0	6.0	7.3	6.3	6.3	7.0	6.5
A-TF31	99	92.7	86.3	5.0	6.0	5.3	6.0	7.7	6.3	6.7	6.7	6.4
AST8118LM	99	89.3	96.0	4.7	6.0	6.0	6.3	6.7	6.3	6.7	7.0	6.4
AST8218LM	99	92.7	89.3	4.3	6.0	5.0	5.7	7.7	6.7	7.3	6.7	6.4
BULLSEYE	99	86.3	99.0	3.7	5.7	4.7	5.7	7.3	7.0	7.3	7.3	6.4
DLFPS-321/3705	99	96.0	93.0	4.7	5.3	4.7	5.7	7.3	6.7	7.3	7.7	6.4
DLFPS-TF/3550	99	92.7	86.3	4.3	6.7	5.7	6.0	7.7	6.0	6.3	6.7	6.4
ESTRENA	99	92.7	89.7	4.0	6.0	5.0	5.7	7.3	6.7	7.0	7.0	6.4
GRAND PRIX (FC15-01P)	99	83.3	83.3	3.3	6.3	6.3	6.0	7.3	6.3	6.3	6.0	6.4
GRANDE 3	99	86.3	89.7	4.3	6.0	5.3	5.7	7.3	6.3	6.7	7.3	6.4
K18-ROE	99	89.7	92.7	4.0	5.0	5.0	6.0	7.3	6.7	8.0	7.0	6.4
LIFEGUARD	99	83.0	93.0	4.3	5.7	5.7	5.7	6.3	6.3	7.7	7.7	6.4
NAI-FQZ-17	99	83.3	83.3	4.7	5.7	5.3	6.0	7.7	6.3	7.7	6.3	6.4
NATURALLY GREEN	99	83.3	86.7	4.3	6.7	6.3	6.0	6.0	6.0	6.7	7.0	6.4
PST-5DZM	99	83.0	89.3	4.3	5.7	5.7	6.3	6.0	7.0	7.0	7.3	6.4
SE53D2	99	83.0	86.3	5.0	5.3	5.3	5.3	7.3	7.0	7.3	7.0	6.4
TMT1	99	82.7	89.3	4.0	6.7	6.3	6.0	6.3	5.7	6.3	7.3	6.4
ATF2116	99	79.7	89.3	3.7	6.7	5.3	6.0	6.3	5.7	6.7	7.3	6.3
BRAVO 2	99	86.3	83.0	4.3	6.0	5.0	5.7	7.7	6.3	7.0	6.7	6.3
DLFPS-321/3702	99	83.0	79.7	4.3	5.7	6.3	7.0	6.7	5.7	6.3	6.3	6.3
DLFPS-TF/3552	99	83.0	92.7	5.7	5.3	4.3	6.0	7.0	6.7	7.3	7.7	6.3
FAYETTE	99	83.3	89.7	3.7	6.3	5.3	6.3	6.3	5.7	6.7	7.3	6.3
HEMI	99	79.7	86.3	3.3	5.7	5.7	5.7	7.0	7.0	6.7	6.7	6.3
PPG-TF 308	99	86.7	80.0	2.7	6.0	6.3	6.3	7.3	5.7	6.0	6.3	6.3
PPG-TF 313	99	96.0	89.7	4.7	5.3	5.3	6.0	7.3	6.7	6.7	7.0	6.3

TABLE 26.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT LOGAN (DROUGHT), UT 1/
2019 DATA

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

NAME	PERCENT GROUND COVER			PINK SNOW MOLD	APR	MAY	QUALITY RATINGS					MEAN
	SPRING	SUMMER	FALL				JUN	JUL	AUG	SEP	OCT	
PPG-TF 338	99	79.7	83.0	4.0	6.0	6.0	6.3	6.7	6.0	6.7	6.7	6.3
RAD-TF105	99	90.0	89.7	5.7	5.7	5.0	6.3	8.0	6.3	6.3	6.7	6.3
RAD-TF131	99	99.0	96.0	7.0	4.3	4.0	5.7	8.3	7.3	7.3	7.3	6.3
RH1	99	70.0	86.3	4.3	6.3	6.3	6.3	6.0	6.0	6.3	7.0	6.3
RS1	99	79.7	86.7	4.0	6.3	5.3	6.3	6.7	6.0	6.7	7.0	6.3
SE5STAR	99	83.3	80.0	4.0	6.3	6.0	6.0	6.3	6.3	6.7	6.7	6.3
SESCR1	99	86.3	79.7	4.0	5.3	5.3	5.7	7.3	6.7	7.0	7.0	6.3
TANGO	99	89.3	89.3	6.0	5.7	4.7	5.0	7.0	6.7	7.7	7.3	6.3
TF456	99	76.7	83.0	4.7	6.0	6.0	6.0	7.0	6.0	6.7	6.7	6.3
BAR FA 8228	99	86.3	86.3	4.3	5.3	5.0	5.3	7.3	6.7	7.0	7.0	6.2
DLFPS-321/3695	99	73.0	83.0	4.3	6.0	6.3	6.3	6.3	5.7	6.3	6.7	6.2
DLFPS-321/3707	99	73.0	83.0	4.0	6.3	5.7	6.0	6.7	5.7	6.3	6.7	6.2
GO-RH20	99	83.0	89.3	3.7	5.3	5.3	5.7	7.0	6.3	7.0	7.0	6.2
K18-WB1	99	83.3	92.7	4.7	5.3	5.7	5.7	6.3	6.3	7.0	7.3	6.2
NAI-TUE	99	79.7	93.0	6.0	5.3	5.0	5.3	6.7	6.7	7.3	7.3	6.2
PPG-TF 312	99	79.7	86.3	4.0	6.0	5.0	6.0	6.7	6.7	6.7	6.7	6.2
PST-5GLBS	99	79.7	89.7	4.7	5.7	5.0	5.3	7.0	6.3	6.7	7.3	6.2
RH3	99	83.0	92.7	4.0	6.3	5.7	5.7	6.3	6.0	6.7	6.7	6.2
TURBO SS	99	99.0	83.0	6.0	5.0	4.7	5.3	8.3	7.0	6.7	6.7	6.2
BAR 9FE MAS	99	86.3	96.0	6.7	5.0	4.3	5.0	7.3	6.7	7.0	7.7	6.1
DLFPS-321/3694	99	83.3	89.3	4.3	6.0	5.7	5.7	6.3	6.0	6.0	7.3	6.1
ESCALADE	99	83.3	89.7	4.7	6.0	4.7	5.7	6.7	6.3	6.7	6.7	6.1
JT 517	99	66.3	83.3	4.3	6.0	5.0	6.0	7.3	5.3	6.7	6.7	6.1
PARAMOUNT	99	80.0	83.3	4.0	6.3	5.3	6.0	6.0	5.7	6.7	6.7	6.1
PST-5BYOB	99	79.7	86.3	4.7	6.0	5.7	6.0	6.3	6.3	6.3	6.3	6.1
PST-5THM	99	83.0	86.3	5.0	5.7	5.3	6.0	6.7	6.0	7.0	6.3	6.1
RDC	99	73.0	86.3	6.3	5.7	4.7	5.3	6.7	6.3	7.0	7.0	6.1
SETF104	99	83.0	96.0	5.0	5.0	4.0	5.0	7.0	7.0	7.0	7.7	6.1
3B2	99	76.7	96.0	4.7	5.3	4.7	5.7	6.7	6.0	6.7	7.0	6.0
DLFPS-321/3703	99	63.3	80.0	4.0	6.0	6.0	6.0	5.7	5.3	6.3	6.7	6.0
GO-AOMK	99	96.0	93.0	5.7	4.3	3.7	5.7	7.3	6.7	7.7	7.0	6.0
BONFIRE (JS DTT)	99	66.7	79.7	5.3	6.0	6.0	6.7	5.7	5.0	6.0	6.7	6.0
PST-5E6	99	76.3	89.7	4.7	5.7	4.3	5.0	7.7	6.0	6.7	7.0	6.0
PST-5SQB	99	80.0	86.3	4.7	5.3	4.7	5.0	7.0	6.3	6.7	6.7	6.0
ATF1768	99	70.0	79.7	4.0	6.3	5.7	6.3	5.7	4.7	5.7	7.0	5.9
MOONDANCE GLX	99	86.7	79.7	5.0	5.7	4.7	5.3	6.3	6.0	6.3	6.7	5.9
PST-5MINK	99	80.0	93.0	5.7	4.3	4.0	5.7	7.0	6.7	6.3	7.3	5.9
TF445	99	70.0	83.0	5.0	5.3	5.0	5.7	6.0	6.3	6.0	6.7	5.9
BGR-TF3	99	66.7	66.7	3.7	6.7	6.7	6.3	5.3	4.7	5.3	5.7	5.8
OG-WALK	99	70.0	90.0	4.7	5.3	4.7	5.0	6.0	6.0	6.7	6.3	5.7
PALOMAR	99	76.7	83.0	4.3	5.3	4.7	5.0	6.3	5.7	6.3	6.3	5.7
KENTUCKY-31	99	82.7	89.3	2.3	3.0	2.7	3.7	5.7	5.3	6.3	6.7	4.8
LSD VALUE	0	78.7	58.3	2.0	1.8	1.7	1.1	7.2	5.9	6.7	4.8	1.6
C.V. (%)	0	16.8	13.0	21.4	13.2	15.6	9.2	18.2	17.2	16.1	11.9	7.7

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.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT BLACKSBURG (3" MOWING HEIGHT), VA 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/						MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	
5LSS	8.7	9.0	9.0	8.0	8.3	8.3	8.6
DLFPS-321/3701	9.0	9.0	8.7	8.3	8.3	8.3	8.6
PPG-TF 320	8.3	8.3	7.7	8.3	8.7	8.7	8.3
RS1	8.7	8.7	9.0	7.7	8.0	8.0	8.3
3N1	8.3	8.3	8.3	8.3	7.3	8.3	8.2
PPG-TF 336	8.3	8.3	9.0	7.3	8.0	8.0	8.2
PPG-TF 337	8.3	8.3	8.7	7.3	8.3	8.0	8.2
DLFPS-TF/3552	8.3	8.3	8.7	7.7	7.3	8.0	8.1
MOONDANCE GLX	8.0	8.3	9.0	8.0	7.3	8.0	8.1
NAI-ROS4	8.3	8.3	8.3	6.7	8.3	8.3	8.1
PPG-TF 306	8.3	8.3	8.3	7.3	8.0	8.3	8.1
DLFPS-321/3702	8.3	8.3	8.3	7.7	7.7	7.7	8.0
PPG-TF 244	8.0	8.0	8.3	7.7	7.3	8.0	7.9
PPG-TF 305	8.0	8.0	7.7	8.0	8.0	8.0	7.9
BAR TF 134	8.0	8.0	8.0	7.3	7.7	8.0	7.8
DLFPS-TF/3550	8.0	8.0	8.3	7.3	7.3	7.7	7.8
BAR-FA8230	7.7	7.7	8.0	7.3	7.3	8.0	7.7
DEGAS (LTP-TF-111)	7.7	7.7	8.3	6.7	8.0	8.0	7.7
NT-3	8.0	8.0	8.0	7.7	7.0	7.3	7.7
PADRE 2	8.0	8.0	8.7	6.7	7.3	7.7	7.7
TF456	8.0	8.0	8.3	7.3	7.0	7.7	7.7
DLFPS-321/3705	7.7	7.7	8.3	6.3	7.7	7.7	7.6
JT 517	7.7	8.0	8.3	6.0	7.7	7.7	7.6
LIFEGUARD	7.7	7.7	7.7	7.7	7.3	7.3	7.6
PPG-TF 312	7.7	7.7	7.3	7.0	8.3	7.7	7.6
PST-5E6	7.7	7.7	8.0	7.3	7.0	7.7	7.6
PST-5GQ	7.7	7.7	7.7	7.0	7.7	7.7	7.6
TD2	7.7	7.7	7.7	7.7	7.3	7.7	7.6
TF445	7.7	7.7	7.3	7.7	7.7	7.7	7.6
DLFPS-321/3694	7.7	7.7	8.0	6.7	7.3	7.7	7.5
DLFPS-321/3703	7.7	7.7	7.7	7.0	7.7	7.3	7.5
DLFPS-321/3708	7.7	7.7	7.7	7.7	7.0	7.3	7.5
PST-5MCMO	7.7	7.7	8.0	7.0	7.3	7.3	7.5
PST-5TRN	7.7	7.7	8.0	6.3	7.7	7.7	7.5
DLFPS-321/3693	7.7	7.7	8.0	6.7	7.0	7.3	7.4
PARAMOUNT	7.7	7.7	8.0	6.3	7.3	7.3	7.4
PPG-TF 238	7.7	7.7	7.3	6.7	7.7	7.7	7.4
PPG-TF 308	7.7	7.3	7.0	7.0	8.0	7.7	7.4
BY-TF-169	7.3	7.7	8.3	5.7	7.3	7.3	7.3
DLFPS-TF/3553	7.3	7.3	7.7	6.7	7.7	7.3	7.3
PPG-TF 255	7.7	7.7	7.7	6.3	7.3	7.3	7.3
PPG-TF 323	7.3	7.3	7.7	6.0	7.7	7.7	7.3
PST-5BYOB	7.3	7.7	8.3	6.7	6.7	7.0	7.3
ATF2116	7.3	7.3	7.7	7.3	6.3	7.3	7.2
NATURALLY GREEN	7.3	7.3	7.0	7.0	7.3	7.0	7.2

TABLE 27.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT BLACKSBURG (3" MOWING HEIGHT), VA 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/						MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-TF 249	7.3	7.3	7.3	7.0	7.0	7.3	7.2
PPG-TF 318	7.3	7.3	7.3	7.0	7.0	7.0	7.2
PST-5THM	7.3	7.3	7.7	6.7	7.0	7.0	7.2
RC4	7.3	7.3	7.7	6.0	7.3	7.3	7.2
RHL2	7.3	7.3	7.7	6.7	7.0	7.0	7.2
ZRC1	7.3	7.3	7.3	7.0	7.0	7.3	7.2
ATF1768	7.3	7.3	8.0	6.0	6.7	7.0	7.1
BULLSEYE LTZ	7.3	7.3	7.7	5.7	7.3	7.3	7.1
DLFPS-321/3706	7.3	7.3	7.7	6.3	7.0	7.0	7.1
PPG-TF 231	7.0	7.3	7.7	6.3	7.0	7.0	7.1
SESCR1	7.3	7.3	7.0	6.3	7.7	7.0	7.1
SETF104	7.3	7.3	7.3	6.3	7.0	7.3	7.1
SETFM3	7.3	7.3	7.7	6.3	7.0	7.0	7.1
BRAVO 2	7.0	7.3	8.3	5.7	6.7	7.0	7.0
OKEEFE (LTP-TF-122)	7.0	7.0	7.3	6.7	7.0	7.0	7.0
AST8118LM	7.0	7.0	7.3	6.7	6.7	6.7	6.9
DLFPS-321/3695	7.0	7.0	7.3	6.3	7.0	7.0	6.9
DLFPS-321/3707	7.0	7.0	7.7	6.3	6.7	6.7	6.9
GLX ACED (PST-5DART)	7.0	7.0	7.0	6.3	7.0	7.0	6.9
PST-5DC24	7.0	7.0	6.7	6.3	7.7	7.0	6.9
RDC	7.0	7.0	7.7	5.3	7.7	7.0	6.9
TMT1	7.0	7.0	7.3	6.3	7.0	7.0	6.9
AH2	7.0	7.0	7.7	5.3	7.0	7.0	6.8
HEMI	6.7	7.0	7.3	6.0	6.7	7.0	6.8
BONFIRE (JS DTT)	7.0	7.0	8.0	5.3	6.7	7.0	6.8
PRO GOLD	7.0	7.0	7.0	6.7	6.3	6.7	6.8
RAD-TF131	7.0	7.0	7.7	5.3	6.7	7.0	6.8
RH1	7.0	7.0	7.0	6.3	6.7	6.7	6.8
AST8218LM	6.7	7.0	7.0	6.3	6.7	6.7	6.7
BGR-TF3	6.7	7.0	7.3	5.7	7.0	6.7	6.7
DLFPS-321/3699	6.7	6.7	7.0	6.3	6.7	6.7	6.7
FAYETTE	6.7	7.0	7.3	5.3	7.0	6.7	6.7
JT 268	6.7	6.7	7.0	6.0	7.0	6.7	6.7
LBF	7.0	7.0	7.0	6.7	6.0	6.7	6.7
PPG-TF 254	7.0	7.0	7.7	5.3	6.7	6.7	6.7
PPG-TF 262	6.7	6.7	6.7	6.0	7.0	7.0	6.7
PPG-TF 315	7.0	7.0	8.0	5.0	6.7	6.7	6.7
PST-5MINK	6.7	6.7	6.7	7.0	6.3	6.7	6.7
PST-5SQB	6.7	6.7	6.3	6.7	7.0	7.0	6.7
RH3	7.0	7.0	7.0	6.0	6.7	6.3	6.7
COPIOUS TF	6.7	6.7	6.7	6.0	7.0	6.7	6.6
DLFPS-321/3679	6.7	6.7	7.0	5.7	6.7	6.7	6.6
GRANDE 3	6.7	6.7	6.7	6.3	6.7	6.7	6.6
K18-RS6	6.7	6.7	7.0	5.7	7.0	6.7	6.6
PPG-TF 316	6.7	6.7	7.0	6.0	6.7	6.7	6.6

TABLE 27.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT BLACKSBURG (3" MOWING HEIGHT), VA 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/							MEAN
	MAY	JUN	JUL	AUG	SEP	OCT		
PST-5DZM	6.3	7.0	7.7	6.0	6.0	6.3	6.6	
PST-5GLBS	6.7	6.7	7.3	5.3	6.7	6.7	6.6	
SETFM2	6.7	6.7	6.7	6.7	6.0	6.7	6.6	
BAR 9FE MAS	6.7	6.7	7.3	5.0	6.7	6.7	6.5	
GO-RH20	6.7	6.7	7.0	5.7	6.7	6.3	6.5	
NAI-3N2	6.7	6.7	7.3	5.7	6.0	6.7	6.5	
RAPTOR III	6.7	6.7	7.0	5.3	6.7	6.7	6.5	
RHF	6.7	6.7	7.3	5.0	6.7	6.7	6.5	
3B2	6.7	6.7	6.7	6.0	6.3	6.3	6.4	
COL-TF-148	6.3	6.7	7.0	5.7	6.3	6.3	6.4	
ESCALADE	6.7	6.7	6.3	5.7	6.7	6.7	6.4	
NAI-ST5	6.3	6.3	6.7	5.3	7.0	6.7	6.4	
NAI-TUE	6.7	6.7	7.0	5.0	6.3	6.7	6.4	
OG-WALK	6.7	6.7	6.7	6.0	6.0	6.3	6.4	
PALOMAR	6.7	6.7	7.3	5.7	5.7	6.3	6.4	
BAR FA 8228	6.3	6.7	8.0	5.3	5.3	6.3	6.3	
FIREHAWK SLT	6.3	6.3	6.3	5.7	6.7	6.7	6.3	
GO-AOMK	6.3	6.3	6.7	6.0	6.3	6.3	6.3	
JT 233	6.3	6.3	6.3	5.7	6.7	6.3	6.3	
PPG-TF 257	6.3	6.3	6.7	6.0	6.0	6.3	6.3	
BULLSEYE	6.3	6.3	6.7	5.3	6.0	6.3	6.2	
DLFPS-321/3696	6.3	6.3	6.7	6.0	6.0	6.0	6.2	
DRAGSTER	6.3	6.3	6.3	6.0	6.0	6.3	6.2	
GRAND PRIX (FC15-01P)	6.0	6.0	5.7	6.0	7.0	6.3	6.2	
K18-ROE	6.3	6.3	7.0	5.0	6.3	6.3	6.2	
K18-WB1	6.3	6.7	6.7	5.7	6.0	6.0	6.2	
RAD-TF105	6.3	6.3	7.0	5.0	6.0	6.3	6.2	
TANGO	6.3	6.3	7.3	5.0	5.7	6.3	6.2	
NAI-FQZ-17	6.3	6.3	6.7	5.0	6.0	6.0	6.1	
PPG-TF 338	6.3	6.3	6.3	4.7	6.7	6.3	6.1	
SE53D2	6.0	6.3	6.7	5.0	6.3	6.0	6.1	
PPG-TF 267	6.0	6.0	6.7	5.3	5.7	6.3	6.0	
SE5STAR	6.0	6.0	6.7	5.0	6.3	6.0	6.0	
A-TF31	6.0	6.0	6.3	5.3	5.7	6.0	5.9	
K18-NSE	6.0	6.0	6.3	4.7	6.7	6.0	5.9	
PPG-TF 313	6.0	6.0	6.0	4.7	6.7	6.3	5.9	
TURBO SS	6.0	6.0	6.7	5.0	5.7	6.0	5.9	
AH1	6.0	6.0	6.3	5.3	5.3	6.0	5.8	
BANDIT	5.7	5.7	6.3	5.3	5.7	5.7	5.7	
BIRMINGHAM	5.7	5.7	5.3	5.3	6.0	5.7	5.6	
ESTRENA	5.7	5.7	5.7	4.7	5.7	5.7	5.5	
KENTUCKY-31	5.0	5.0	5.0	4.7	4.7	5.0	4.9	
LSD VALUE	6.2	6.2	7.9	7.7	5.9	7.2	6.5	
C.V. (%)	18.3	18.2	19.4	25.6	18.3	18.4	18.1	

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 28.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT BLACKSBURG (1.5" MOWING HEIGHT), VA 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/						MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	
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
MOONDANCE GLX	8.3	8.0	8.7	8.0	7.3	8.3	8.1
PPG-TF 336	8.3	8.3	8.7	7.3	8.0	8.0	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
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
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 238	7.7	7.7	8.0	6.7	7.7	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
PPG-TF 308	7.7	7.3	7.7	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
DEGAS (LTP-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 255	7.7	7.7	8.0	6.3	7.3	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
TF456	7.3	7.7	7.7	7.3	7.0	7.3	7.4
ZRC1	7.3	7.7	8.0	7.0	7.0	7.3	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 28.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT BLACKSBURG (1.5" MOWING HEIGHT), VA 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/						MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	
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
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
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
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
BONFIRE (JS DTT)	7.0	6.7	8.0	5.3	6.7	7.0	6.8
LBF	7.0	7.0	7.3	6.7	6.0	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
PST-5SQB	6.7	6.7	6.7	6.7	7.0	7.0	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 254	6.7	6.7	7.3	5.3	6.7	6.7	6.6
PPG-TF 316	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
FIREHAWK SLT	6.7	6.3	7.0	5.7	6.7	6.7	6.5
HEMI	6.7	6.7	7.0	5.7	6.7	6.3	6.5

TABLE 28.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
IN THE 2018 NATIONAL TALL FESCUE TEST AT BLACKSBURG (1.5" MOWING HEIGHT), VA 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/							MEAN
	MAY	JUN	JUL	AUG	SEP	OCT		
JT 233	6.3	6.3	7.3	5.7	6.7	6.7	6.5	
PPG-TF 315	7.0	6.7	7.3	5.0	6.7	6.3	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	
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	
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.