

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWENTY-TWO LOCATIONS IN THE U.S.
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CA7	CT1	DE1	GA1	IA1	IN1	KY1	MD1	MI1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	OR1	PA2	TN1	UT1	UT2	VA1
3B2	4.6	5.7	6.5	5.7	6.7	6.8	5.8	5.8	6.8	5.4	4.5	4.7	5.0	5.3	4.8	5.8	5.5	6.4	5.8	7.7	6.0	6.4
3N1	5.5	5.6	6.0	5.9	6.9	5.9	5.7	5.6	6.7	5.0	4.4	4.9	5.1	5.6	4.8	5.6	5.4	6.5	6.1	7.8	6.7	8.2
5LSS	4.6	5.9	6.5	6.3	6.7	6.2	5.7	5.0	6.8	4.7	4.7	4.0	5.1	7.1	5.5	5.0	5.8	6.6	6.1	7.9	6.5	8.6
A-TF31	5.1	5.7	4.5	5.9	7.0	5.8	5.6	4.2	6.2	5.0	4.1	3.0	4.8	5.4	5.2	4.9	5.7	6.4	6.3	7.7	6.4	5.9
AH1	5.1	6.0	5.8	6.1	7.2	6.6	6.1	5.6	6.3	6.2	4.9	3.9	4.9	7.1	6.9	5.3	6.0	6.5	6.5	8.3	6.9	5.8
AH2	4.0	6.3	6.8	6.8	6.9	6.3	6.1	6.0	6.7	6.2	4.9	4.8	5.2	7.7	7.6	5.2	5.8	6.8	6.7	7.7	6.7	6.8
AST8118LM	4.9	5.4	5.4	5.7	7.3	5.8	5.6	4.2	6.3	5.0	4.1	3.4	4.9	4.9	4.7	5.4	5.7	6.8	6.4	7.6	6.4	6.9
AST8218LM	4.7	5.4	5.6	6.1	7.1	6.2	5.6	4.0	5.8	4.8	4.3	3.7	4.9	4.3	5.0	5.7	5.4	6.9	6.4	8.2	6.4	6.7
ATF1768	4.8	6.1	6.0	5.8	6.9	6.2	5.9	5.0	6.7	5.4	4.4	4.3	4.8	3.9	5.6	5.7	5.3	6.6	6.4	8.1	5.9	7.1
ATF2116	5.3	5.5	5.8	6.1	7.0	6.6	5.7	5.1	6.6	4.4	4.7	5.0	4.7	4.3	4.1	6.2	5.0	6.4	6.3	7.9	6.3	7.2
BANDIT	4.5	5.8	6.3	5.6	7.1	6.7	5.7	3.9	6.2	5.4	4.5	3.5	5.0	3.9	4.1	5.4	5.5	6.9	5.6	7.8	7.0	5.7
BAR 9FE MAS	4.1	5.4	5.6	5.7	7.1	5.9	5.4	4.1	6.1	5.4	4.2	3.4	4.8	3.8	4.9	5.4	5.2	6.3	5.8	7.7	6.1	6.5
BAR FA 8228	5.7	5.7	5.9	5.7	6.8	6.1	5.6	5.1	5.8	5.1	4.6	4.0	4.7	2.8	3.1	5.2	5.2	6.4	6.3	7.5	6.2	6.3
BAR TF 134	4.8	5.6	5.8	6.2	6.8	5.8	5.7	5.9	6.3	5.5	4.9	4.0	5.0	6.4	6.4	5.6	5.2	6.7	6.1	7.9	6.7	7.8
BAR-FA8230	4.7	5.8	6.0	5.8	6.8	6.1	5.6	4.6	6.4	5.2	4.8	4.0	5.1	3.9	4.8	6.1	5.2	6.3	6.5	7.9	6.7	7.7
BGR-TF3	5.4	6.4	5.7	6.1	7.2	6.9	5.9	3.9	6.5	4.7	4.3	3.4	4.6	4.5	4.5	5.5	5.7	7.0	6.5	8.1	5.8	6.7
BIRMINGHAM	4.7	5.7	5.8	6.1	7.2	5.7	5.6	4.3	6.8	5.4	4.1	5.2	5.0	4.8	4.5	5.8	5.3	6.6	6.4	7.9	6.6	5.6
BRAVO 2	6.1	5.7	5.5	6.5	6.8	6.6	5.9	5.0	6.7	5.8	4.2	5.1	5.1	4.3	4.7	5.4	5.2	6.7	6.1	7.9	6.3	7.0
BULLSEYE	4.4	6.1	6.2	5.9	7.1	6.1	5.7	5.0	6.1	5.1	4.4	3.5	4.9	5.0	4.7	5.3	5.3	6.4	6.4	7.9	6.4	6.2
BULLSEYE LTZ	4.5	5.7	6.5	5.8	7.0	6.4	5.9	5.2	6.3	5.4	4.5	5.3	4.9	6.5	5.4	5.6	5.6	6.8	6.9	8.1	6.5	7.1
BY-TF-169	5.5	5.7	5.6	6.6	6.9	6.1	5.9	6.0	6.9	5.7	4.7	5.2	5.0	6.6	5.5	5.5	5.5	6.7	6.7	8.1	6.6	7.3
COL-TF-148	4.8	6.2	6.2	6.9	6.7	6.3	6.0	6.0	6.0	5.9	4.8	3.9	5.2	7.1	6.6	5.4	5.4	6.4	6.6	7.7	6.5	6.4
COPIOUS TF	5.1	5.9	5.8	5.7	7.1	6.3	5.7	4.0	5.6	5.2	4.4	4.0	5.1	4.1	5.8	5.0	5.4	6.5	6.4	7.9	6.9	6.6
DLFPS-321/3679	5.3	5.8	6.0	6.0	7.0	6.2	5.9	5.8	6.4	5.4	4.6	4.0	5.1	5.1	4.7	5.8	5.0	6.8	6.3	7.7	6.5	6.6
DLFPS-321/3693	5.3	6.3	6.3	5.8	7.1	5.7	6.1	5.9	6.4	5.3	4.7	3.6	4.7	6.5	5.7	5.4	5.8	6.7	6.7	8.0	6.6	7.4
DLFPS-321/3694	4.6	5.9	6.3	6.0	7.1	5.8	5.9	4.4	6.7	5.6	4.3	3.4	4.9	6.3	6.0	5.0	5.6	6.3	6.2	7.9	6.1	7.5
DLFPS-321/3695	4.8	5.7	6.4	6.2	6.8	6.5	6.3	5.0	6.2	5.4	4.4	4.2	4.8	6.7	6.5	5.5	6.0	6.6	6.6	7.9	6.2	6.9
DLFPS-321/3696	5.5	6.1	5.9	6.3	6.9	6.1	5.8	5.2	6.3	5.4	4.6	4.2	5.2	5.8	6.6	5.4	5.3	6.8	6.7	7.9	6.6	6.2
DLFPS-321/3699	5.1	5.7	6.0	6.1	7.2	6.2	5.8	6.2	6.7	5.7	4.7	4.9	5.0	6.5	6.6	5.6	5.8	6.9	6.8	7.9	6.5	6.7
DLFPS-321/3701	5.1	5.9	6.2	6.5	7.0	5.8	5.9	5.3	6.3	5.8	4.7	4.6	4.9	6.3	5.2	5.4	5.6	6.5	6.2	8.1	6.5	8.6
DLFPS-321/3702	4.8	5.3	6.2	6.3	7.0	6.2	5.9	5.0	6.2	5.7	4.8	3.7	4.8	5.7	5.0	5.6	6.1	6.7	6.4	8.1	6.3	8.0
DLFPS-321/3703	4.6	5.6	5.9	6.0	6.8	6.3	5.9	5.2	6.3	5.7	4.4	4.6	5.0	6.3	4.3	5.1	5.8	6.8	6.6	7.7	6.0	7.5
DLFPS-321/3705	5.5	6.1	6.2	6.2	6.8	6.2	6.2	6.0	7.0	5.8	4.6	5.6	4.9	5.8	6.0	5.6	5.5	6.3	6.1	8.1	6.4	7.6
DLFPS-321/3706	4.6	5.7	6.0	5.7	6.7	6.2	5.9	5.8	6.2	5.2	4.6	3.5	4.9	5.9	4.7	5.2	5.8	6.9	6.7	7.9	6.5	7.1
DLFPS-321/3707	3.5	5.7	6.0	6.1	7.1	6.4	5.8	6.1	6.0	4.9	4.9	3.9	5.0	6.2	5.4	5.0	6.0	6.9	6.2	7.7	6.2	6.9
DLFPS-321/3708	5.0	5.9	6.0	6.1	7.1	5.8	5.8	5.3	5.7	4.7	5.0	3.8	5.0	5.7	5.3	5.8	5.7	6.8	6.4	8.1	6.5	7.5
DLFPS-TF/3550	4.9	5.8	6.3	6.1	6.8	6.8	5.8	5.6	6.2	5.3	4.8	4.4	4.7	6.4	6.0	5.5	5.8	6.8	6.3	7.7	6.4	7.8
DLFPS-TF/3552	4.7	5.8	6.1	6.0	7.1	6.9	6.2	5.1	5.9	5.2	4.8	4.5	4.8	6.9	6.3	5.7	5.8	6.7	6.2	8.1	6.3	8.1
DLFPS-TF/3553	5.1	6.6	6.3	6.2	7.1	6.2	5.9	5.6	5.8	5.1	4.8	4.1	4.7	6.6	5.1	5.5	5.8	7.0	6.0	7.7	6.5	7.3
DRAGSTER	4.5	5.8	6.3	5.9	6.8	6.0	6.0	5.3	5.8	5.6	4.6	4.9	4.8	6.6	6.0	5.4	5.6	6.6	6.4	8.0	7.0	6.2
ESCALADE	5.3	5.9	5.2	5.6	7.0	6.8	5.7	3.8	6.1	4.6	4.3	4.0	4.9	4.0	3.9	5.6	4.8	6.2	5.6	7.5	6.1	6.4
ESTRENA	5.1	5.9	5.7	5.6	7.0	6.4	5.9	5.0	6.4	5.8	4.1	4.3	4.8	6.9	3.5	5.0	5.6	6.5	6.2	8.0	6.4	5.5
FAYETTE	5.4	5.7	5.5	5.6	7.1	6.4	5.8	4.9	6.5	5.6	4.4	4.6	5.0	5.2	4.1	5.7	5.5	6.3	6.1	7.7	6.3	6.7
FIREHAWK SLT	5.7	5.7	6.0	6.3	6.8	5.6	6.1	5.3	6.5	5.2	4.5	3.7	5.2	6.3	4.0	4.9	5.6	6.7	6.5	8.0	6.6	6.3
GLX ACE (PST-5DART)	5.4	5.7	6.0	5.9	6.5	6.5	5.9	5.7	6.1	4.8	4.6	4.7	4.9	5.7	6.5	5.8	5.6	6.5	6.1	7.6	6.5	6.9
GO-AOMK	4.0	5.3	4.9	6.0	6.9	5.9	5.9	4.8	6.2	4.2	4.5	4.3	5.0	5.2	4.1	5.6	5.3	6.6	6.5	8.0	6.0	6.3

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 1. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWENTY-TWO LOCATIONS IN THE U.S.
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CA7	CT1	DE1	GA1	IA1	IN1	KY1	MD1	MI1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	OR1	PA2	TN1	UT1	UT2	VA1
GO-RH20	5.3	6.2	6.2	6.3	6.7	5.6	5.7	5.3	6.7	5.7	4.6	5.6	4.9	6.4	5.4	5.5	5.8	6.6	6.8	8.1	6.2	6.5
GRAND PRIX (FC15-01P)	5.3	5.7	5.8	5.5	6.8	6.1	5.6	4.2	6.2	5.1	4.4	4.1	4.9	3.7	3.8	5.5	4.7	6.3	6.3	7.7	6.4	6.2
GRANDE 3	5.2	6.3	5.9	6.1	6.8	6.8	5.9	5.9	6.7	5.6	4.8	4.6	4.9	5.2	5.9	5.3	5.6	6.6	6.7	7.9	6.4	6.6
HEMI	4.0	5.6	6.5	6.3	7.0	6.0	5.9	5.4	6.4	5.4	4.6	4.1	4.9	6.1	5.0	4.9	5.0	6.3	6.6	8.0	6.3	6.8
JS DTT	5.2	6.0	6.5	6.4	7.2	6.2	6.0	6.3	6.6	6.3	4.9	4.6	5.0	6.3	7.2	5.4	5.7	6.3	6.3	7.9	6.0	6.8
JT 233	5.3	5.6	6.3	6.4	6.9	6.3	5.8	5.1	6.1	5.7	4.6	5.0	4.9	6.7	5.9	5.5	6.0	6.8	6.4	7.6	6.5	6.3
JT 268	4.8	5.7	6.3	6.5	7.0	5.6	5.9	5.4	6.1	6.3	4.7	4.3	4.9	8.0	5.4	5.5	6.0	6.8	5.3	8.1	6.9	6.7
JT 517	5.2	5.8	6.1	5.6	7.0	6.6	5.7	4.2	5.8	5.5	4.4	3.6	4.9	4.0	3.9	5.4	5.3	6.8	6.5	7.7	6.1	7.6
K18-NSE	4.3	5.6	6.3	6.4	6.8	6.0	6.0	5.4	6.3	5.5	4.7	4.3	5.0	7.1	5.7	4.9	5.7	7.1	6.7	8.0	6.7	5.9
K18-ROE	5.2	6.0	6.0	6.2	6.9	6.1	5.8	4.9	6.1	5.8	4.6	4.8	4.9	6.2	5.3	5.7	5.4	6.5	6.5	7.7	6.4	6.2
K18-RS6	5.2	5.9	6.3	6.3	6.7	6.3	6.2	6.0	6.5	6.3	4.8	4.6	5.3	8.3	6.5	5.4	5.3	6.9	6.5	8.1	6.5	6.6
K18-WB1	4.5	5.9	6.0	6.7	6.9	5.9	5.9	6.1	6.8	5.4	4.6	3.7	5.2	7.2	4.8	5.7	5.8	6.2	5.9	8.1	6.2	6.2
KENTUCKY-31	4.4	4.3	5.6	4.4	6.4	5.8	4.4	2.7	5.6	4.8	3.9	3.9	4.4	1.1	1.3	4.4	3.3	4.1	5.9	7.1	4.8	4.9
LBF	6.0	6.2	6.0	6.0	7.1	6.4	5.7	4.2	5.9	5.3	4.4	3.5	4.6	4.7	4.7	5.4	5.9	6.6	6.4	7.9	6.5	6.7
LIFEGUARD	5.2	5.7	6.5	6.2	6.8	6.2	5.9	5.4	6.6	5.4	4.3	4.3	4.9	4.6	5.3	5.8	5.0	6.3	6.3	7.9	6.4	7.6
LTP-TF-111	5.2	5.8	6.0	6.3	6.8	6.7	5.9	5.9	6.1	4.7	4.8	4.9	4.7	6.2	6.3	5.9	5.8	6.7	6.4	8.1	6.6	7.7
LTP-TF-122	4.3	5.7	6.1	6.3	6.7	5.8	6.0	6.0	6.2	5.1	4.5	4.5	5.1	7.3	6.2	5.5	5.6	6.5	6.5	7.7	6.5	7.0
MOONDANCE GLX	4.6	5.9	5.9	5.6	6.8	6.1	5.9	4.4	6.6	5.4	4.6	4.4	5.0	4.6	5.6	6.1	5.2	6.2	5.4	7.7	5.9	8.1
NAI-3N2	4.2	5.8	6.0	6.1	7.0	6.5	6.1	5.0	6.0	5.7	4.6	5.4	5.2	6.5	6.0	5.6	5.8	6.7	6.6	8.2	6.7	6.5
NAI-FQZ-17	4.7	5.5	5.6	5.6	6.7	5.9	5.7	4.4	6.6	4.8	4.3	3.8	5.0	3.7	4.1	5.2	5.4	6.6	6.1	7.9	6.4	6.1
NAI-ROS4	5.2	6.5	6.2	6.2	6.7	6.0	6.1	5.2	6.8	5.5	4.7	5.1	4.9	6.7	6.1	5.5	5.7	6.5	6.7	8.1	6.7	8.1
NAI-ST5	5.4	5.7	5.9	6.7	7.0	6.1	6.1	6.1	6.9	5.2	4.7	5.1	5.0	5.8	6.0	5.9	5.7	6.7	5.6	8.1	6.5	6.4
NAI-TUE	4.9	5.8	6.2	6.3	7.0	6.2	5.9	4.6	6.3	5.4	4.5	5.1	4.9	5.4	5.7	5.6	5.9	7.0	5.6	7.9	6.2	6.4
NATURALLY GREEN	5.1	5.8	5.6	5.6	7.0	5.8	6.0	4.7	5.7	5.3	4.4	4.3	4.7	3.4	4.6	5.4	5.5	6.3	6.1	7.9	6.4	7.2
NT-3	5.1	6.1	6.5	5.7	6.9	6.2	6.0	5.6	6.3	4.7	4.9	4.7	5.0	6.6	4.9	4.8	6.1	6.6	6.3	8.0	6.5	7.7
OG-WALK	4.3	5.6	5.4	5.8	6.8	6.4	5.5	3.6	6.4	4.7	4.3	3.7	4.9	2.8	3.6	5.4	4.7	6.0	6.2	7.4	5.7	6.4
PADRE 2	6.0	5.7	6.0	5.9	6.8	6.6	5.8	5.8	6.5	5.9	4.8	4.9	5.0	6.2	5.0	5.3	5.6	6.4	6.7	8.1	6.6	7.7
PALOMAR	5.4	5.7	5.9	5.2	6.8	6.1	5.6	3.7	6.2	5.3	4.4	3.9	4.7	2.6	4.8	5.4	5.0	6.4	5.8	7.6	5.7	6.4
PARAMOUNT	5.4	6.2	5.8	5.9	7.0	5.4	5.7	5.3	6.3	5.8	4.5	4.2	5.1	6.7	5.1	5.4	5.3	6.8	6.4	7.7	6.1	7.4
PPG-TF 231	4.8	6.1	5.9	5.7	7.0	5.6	6.1	5.7	6.1	5.5	4.2	3.7	4.8	6.8	5.9	5.5	5.1	6.7	6.5	7.9	6.5	7.1
PPG-TF 238	4.3	6.1	6.5	6.3	6.8	5.1	6.1	5.4	6.5	5.3	4.6	4.9	4.8	7.5	5.6	5.8	5.4	6.7	6.2	7.9	6.6	7.4
PPG-TF 244	5.0	5.7	5.8	6.4	6.8	6.1	6.0	5.4	6.3	5.9	4.9	5.4	5.0	6.4	6.4	5.6	5.7	6.7	5.5	7.9	6.8	7.9
PPG-TF 249	4.2	6.3	6.0	6.5	7.0	6.2	6.1	5.7	5.9	5.6	4.5	4.0	5.1	6.0	6.1	5.8	5.7	6.6	6.1	7.9	7.4	7.2
PPG-TF 254	5.5	5.9	6.5	6.3	6.8	5.5	6.1	6.1	6.3	5.7	4.6	4.6	4.9	6.4	6.2	5.6	5.8	6.7	6.5	7.6	6.6	6.7
PPG-TF 255	5.3	6.1	6.0	6.6	7.0	6.2	6.0	5.9	6.7	6.7	4.8	4.6	5.1	6.1	6.6	5.9	5.5	6.9	6.7	8.1	6.8	7.3
PPG-TF 257	5.8	5.9	6.0	6.0	6.8	6.2	5.8	5.3	6.1	4.1	4.6	4.6	5.2	6.5	6.0	5.5	5.8	6.8	6.6	7.9	6.7	6.3
PPG-TF 262	4.5	6.4	6.3	6.7	6.9	6.0	5.9	6.3	6.3	5.9	4.8	4.4	5.0	6.9	5.1	5.1	5.7	6.5	6.4	8.1	6.8	6.7
PPG-TF 267	4.6	6.1	5.9	6.4	7.0	6.3	5.9	6.0	6.4	5.4	4.7	5.1	5.3	6.8	5.2	5.6	5.6	6.8	6.3	7.7	6.6	6.0
PPG-TF 305	6.4	5.8	6.5	5.7	7.0	5.7	6.0	5.3	6.2	5.4	5.0	4.0	4.9	5.9	5.4	5.7	6.3	6.6	6.1	8.2	6.9	7.9
PPG-TF 306	5.9	5.6	6.4	6.2	6.9	5.5	6.1	6.6	6.8	5.2	4.7	5.4	5.0	6.3	6.0	5.5	6.3	6.8	6.5	7.9	7.3	8.1
PPG-TF 308	4.5	5.7	6.5	6.2	6.6	6.1	5.7	6.0	6.2	5.6	4.8	4.6	5.0	7.0	5.5	5.5	6.1	6.7	5.8	8.3	6.3	7.4
PPG-TF 312	5.0	6.0	6.5	6.0	6.8	6.0	6.2	6.3	6.2	5.4	4.4	3.7	5.3	7.2	4.9	5.1	5.2	6.9	6.5	8.1	6.2	7.6
PPG-TF 313	5.5	5.7	6.4	5.9	6.9	6.8	5.9	6.3	6.2	5.9	4.7	4.0	5.1	7.3	5.2	5.1	5.9	6.8	6.6	8.1	6.3	5.9
PPG-TF 315	5.5	6.5	6.1	6.4	7.0	5.4	5.8	5.9	6.2	6.0	4.7	3.9	4.9	6.4	6.6	6.0	5.6	7.0	6.7	7.9	7.0	6.7
PPG-TF 316	5.0	6.1	6.3	5.8	7.0	5.4	6.2	6.2	5.9	5.1	4.8	5.2	5.1	6.0	5.8	5.4	6.0	6.7	6.6	8.1	6.9	6.6
PPG-TF 318	4.9	6.0	6.1	6.2	6.8	5.6	6.1	6.0	6.2	4.8	4.4	4.7	5.2	7.2	5.7	5.4	5.5	6.6	6.4	8.1	6.5	7.2

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 1. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
GROWN AT TWENTY-TWO LOCATIONS IN THE U.S.
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CA7	CT1	DE1	GA1	IA1	IN1	KY1	MD1	MI1	MO1	MS1	NC1	NE1	NJ1	NJ2	OK1	OR1	PA2	TN1	UT1	UT2	VA1
PPG-TF 320	4.4	6.1	6.5	6.1	7.1	6.2	6.0	5.7	6.4	5.6	4.6	4.7	4.8	7.0	5.3	5.8	5.3	7.0	5.9	7.9	6.5	8.3
PPG-TF 323	4.6	5.6	6.2	6.2	7.0	6.0	6.1	5.7	6.4	5.1	4.6	4.7	5.0	6.4	5.4	5.7	5.8	6.9	6.2	8.1	6.6	7.3
PPG-TF 336	3.6	6.6	6.4	6.6	7.0	5.6	6.2	6.9	6.1	5.2	4.5	4.2	5.0	7.0	5.8	5.2	5.5	6.6	6.8	7.9	6.5	8.2
PPG-TF 337	4.3	5.7	6.3	6.8	6.9	5.2	6.0	5.7	6.4	4.8	4.8	4.6	5.0	6.5	5.1	5.5	5.8	6.7	6.3	7.9	6.6	8.2
PPG-TF 338	5.1	6.2	6.1	5.6	7.1	6.3	5.9	5.8	5.9	5.7	4.8	5.3	5.0	7.1	5.9	5.8	5.9	6.9	6.5	7.9	6.3	6.1
PRO GOLD	5.0	6.0	6.2	5.5	7.0	6.4	5.8	5.1	6.2	5.8	4.5	4.3	5.2	5.2	5.6	5.3	5.1	6.6	6.5	8.1	6.5	6.8
PST-5BYOB	6.1	6.0	6.5	5.8	6.9	6.1	5.8	5.3	6.5	5.2	4.4	4.6	5.0	5.2	5.7	5.8	5.4	6.5	6.4	7.9	6.1	7.3
PST-5DC24	4.3	5.8	5.5	6.2	7.0	6.4	5.6	4.6	5.9	4.7	4.5	3.5	4.9	4.4	4.2	5.7	5.0	6.3	6.3	7.9	6.6	6.9
PST-5DZM	4.4	5.5	5.3	6.0	6.7	6.1	5.6	5.6	6.2	5.2	4.3	4.2	5.0	4.7	4.0	5.5	5.6	6.3	6.1	7.7	6.4	6.6
PST-5E6	5.5	5.9	6.8	5.9	6.5	5.8	5.9	5.2	6.2	5.3	4.7	4.9	4.9	4.2	4.5	5.6	5.1	6.3	6.4	7.8	6.0	7.6
PST-5GLBS	5.5	5.7	5.9	6.3	7.0	6.8	5.9	5.1	6.5	5.7	4.7	4.8	4.9	4.5	6.0	6.0	5.0	6.0	6.2	7.5	6.2	6.6
PST-5GQ	5.0	5.4	6.1	6.4	6.7	5.8	5.8	5.1	5.8	5.1	4.6	4.6	5.2	4.8	5.0	5.7	5.3	6.5	5.7	7.9	6.6	7.6
PST-5MCMO	5.8	5.9	6.5	5.7	6.7	6.1	5.9	5.7	5.7	4.8	4.6	4.7	4.9	5.0	6.0	5.8	5.0	6.3	6.7	7.8	6.5	7.5
PST-5MINK	4.0	5.8	5.8	5.1	7.0	6.1	5.3	4.2	6.7	3.9	4.4	3.8	4.5	4.0	5.2	5.1	5.0	6.3	6.3	7.6	5.9	6.7
PST-5SQB	5.7	5.5	5.5	6.1	6.7	6.8	5.5	5.2	6.6	5.2	4.4	4.7	4.8	5.7	4.4	5.7	4.9	6.3	5.4	7.8	6.0	6.7
PST-5THM	5.1	5.9	6.4	5.8	6.7	5.7	5.7	5.8	6.4	5.2	4.6	4.6	4.7	4.1	5.4	5.5	6.0	6.2	6.6	7.7	6.1	7.2
PST-5TRN	5.2	6.2	6.0	6.0	6.8	5.6	5.7	5.8	6.2	5.7	4.5	5.3	4.9	5.4	5.3	5.9	5.0	6.3	5.9	7.8	6.7	7.5
RAD-TF105	4.5	5.9	5.8	6.3	7.0	6.6	5.9	5.1	5.8	5.1	4.4	4.3	5.0	5.1	4.2	4.8	6.1	6.6	6.4	8.3	6.3	6.2
RAD-TF131	5.0	5.3	5.6	5.6	7.0	6.4	5.7	4.3	5.7	5.1	4.4	2.6	5.1	4.6	2.9	4.8	6.0	6.7	6.1	8.0	6.3	6.8
RAPTOR III	5.2	5.6	5.5	6.1	6.8	5.9	6.0	5.4	6.3	5.7	4.7	4.3	4.9	6.9	4.5	5.3	5.3	6.5	6.6	8.1	6.6	6.5
RC4	5.0	5.4	6.3	5.9	7.1	5.9	6.1	6.2	6.2	4.6	4.7	4.0	5.1	7.0	5.5	5.8	5.8	6.6	6.4	8.1	6.6	7.2
RDC	4.7	6.1	6.3	6.1	6.7	6.0	6.2	6.2	6.2	5.7	4.8	4.7	5.1	6.2	6.3	5.4	5.5	6.6	6.5	8.1	6.1	6.9
RH1	5.6	5.7	5.9	6.1	6.9	6.7	6.0	5.8	7.3	5.6	4.8	5.6	5.0	6.6	5.8	5.6	5.8	6.5	6.7	8.0	6.3	6.8
RH3	5.6	5.9	6.6	6.3	6.6	6.3	6.0	5.9	6.4	6.3	4.4	4.9	5.4	7.1	5.3	5.6	5.4	6.6	6.4	8.1	6.2	6.7
RHF	4.4	6.0	6.1	6.5	6.7	6.6	6.0	5.2	6.6	5.8	4.6	5.3	5.0	7.4	5.7	5.6	5.5	6.8	6.4	7.9	6.5	6.5
RHL2	4.3	6.0	5.9	6.2	7.0	6.2	6.2	5.9	6.8	5.3	4.7	4.3	5.5	7.1	5.5	5.0	5.6	6.5	6.3	8.1	6.6	7.2
RS1	4.3	5.9	6.3	6.1	7.0	6.3	6.0	4.9	7.1	6.3	4.7	4.3	5.3	5.9	6.1	5.3	6.0	6.7	6.3	7.9	6.3	8.3
SE53D2	4.0	5.8	6.3	6.4	6.9	6.7	5.9	5.0	6.3	4.9	4.5	4.4	4.9	5.2	5.5	5.8	5.5	6.5	5.6	7.3	6.4	6.1
SE5STAR	4.9	5.6	5.8	5.5	6.8	6.7	5.7	5.7	6.6	4.9	4.4	4.7	5.2	4.6	4.5	5.4	4.9	6.4	5.3	7.6	6.3	6.0
SESCR1	5.2	5.6	6.0	6.1	7.0	5.6	6.1	5.4	6.7	5.4	4.4	5.3	5.1	6.0	4.6	5.5	5.6	6.6	6.7	7.9	6.3	7.1
SETF104	4.6	6.5	6.0	6.4	7.0	6.7	5.9	5.0	5.7	6.1	4.7	3.9	4.9	5.7	3.9	5.0	5.5	6.8	6.2	8.2	6.1	7.1
SETFM2	5.5	5.6	5.4	5.7	7.1	6.9	5.6	4.7	5.6	4.7	4.4	3.4	4.7	3.6	3.8	5.3	5.5	6.7	6.5	7.7	6.8	6.6
SETFM3	5.0	6.0	5.5	5.9	7.2	6.2	5.8	4.7	5.8	4.6	4.3	4.1	4.9	4.5	4.6	5.6	5.9	6.5	6.2	7.7	6.5	7.1
TANGO	4.9	5.6	6.2	6.3	7.0	6.3	5.6	5.0	5.9	4.9	4.3	4.5	4.8	4.2	4.5	5.2	5.5	6.7	6.3	7.9	6.3	6.2
TD2	5.0	6.2	6.6	6.6	6.9	6.5	6.0	6.4	6.4	5.7	5.1	5.0	5.0	7.3	6.0	5.5	5.8	7.0	6.8	8.0	6.5	7.6
TF445	5.7	5.8	6.4	6.4	6.8	5.9	5.8	6.2	6.2	5.2	4.7	5.4	5.1	6.2	6.3	5.5	5.5	6.8	6.4	7.9	5.9	7.6
TF456	5.4	5.8	6.2	6.1	6.9	6.2	6.2	5.9	6.7	5.6	4.7	5.1	5.4	7.0	5.5	5.5	5.3	6.8	6.0	8.2	6.3	7.7
TMT1	5.1	5.5	6.0	6.8	7.2	6.2	6.1	5.1	6.7	6.2	4.5	4.2	4.9	6.5	6.8	5.4	6.0	6.9	6.4	7.9	6.4	6.9
TURBO SS	3.4	5.6	5.5	5.6	7.2	6.3	5.7	3.7	5.8	5.2	4.4	2.9	5.0	3.3	3.1	4.6	5.9	6.6	6.5	8.3	6.2	5.9
ZRC1	5.2	6.1	6.4	6.2	6.6	5.8	6.1	6.3	6.6	6.5	4.6	4.8	4.8	7.1	6.2	5.5	5.2	6.6	6.9	7.7	6.9	7.2
LSD VALUE	1.9	0.7	0.8	0.7	0.4	0.8	0.4	1.1	1.0	1.3	0.4	1.3	0.4	1.4	1.1	0.5	0.7	0.5	0.8	0.5	0.8	2.0
C.V. (%)	23.8	7.4	7.9	7.6	3.2	8.5	3.7	12.6	10.2	14.8	5.1	18.4	5.3	14.9	13.3	6.1	7.7	4.7	8.0	4.1	7.8	18.2

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 2.

TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS
GROWN AT SEVENTEEN LOCATIONS IN THE U.S.
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	AR1	CT1	IA1	IN1	KY1	MD1	MI1	MN1	NC1	ND1	NE1	NJ1	NJ2	OK1	TN1	UT1	VA1
A06-8	6.0	6.1	6.0	5.3	6.6	5.2	6.6	4.7	5.0	6.8	5.1	5.2	4.7	5.0	4.8	4.4	5.7
A10-280	6.1	6.2	6.6	5.2	6.0	4.6	5.9	5.6	5.1	7.2	4.6	4.1	5.8	6.9	6.1	3.6	5.4
A11-26	6.1	6.7	6.8	5.7	6.4	4.9	6.0	6.0	5.0	6.1	4.9	7.4	7.3	5.4	6.0	3.5	6.2
A11-38	6.1	5.9	5.6	5.7	6.6	5.8	6.6	5.3	3.5	6.7	4.8	6.7	3.2	4.9	4.4	3.4	5.9
A11-40	5.5	6.3	5.7	5.0	6.5	6.2	7.4	5.1	4.5	7.0	5.1	6.4	4.5	5.6	5.2	3.8	6.3
A12-34	6.1	6.1	5.9	5.0	6.2	5.1	6.2	5.2	4.5	6.5	5.0	4.2	4.2	5.5	5.8	4.0	5.2
A13-1	6.3	6.2	5.1	5.6	6.2	5.9	6.9	4.7	4.9	6.7	5.0	3.8	7.0	6.0	5.6	3.7	5.3
A15-6	6.1	6.1	5.7	5.1	6.1	4.2	6.0	5.0	5.4	6.2	5.0	4.6	5.0	5.5	5.7	3.9	5.1
A16-1	4.9	6.2	6.2	4.5	5.7	4.4	5.6	4.9	4.9	6.9	4.9	5.5	2.3	4.3	4.9	3.7	5.4
A16-17	5.9	6.3	7.0	5.3	6.2	5.5	5.1	5.2	4.7	6.2	5.0	6.2	7.1	6.1	5.1	4.4	5.4
A16-2	5.7	6.8	6.9	5.1	6.0	4.9	6.1	5.1	4.8	6.8	4.8	6.6	4.5	5.1	4.8	3.7	5.2
A16-7	6.6	7.3	5.8	4.8	6.6	5.6	5.8	4.8	4.7	6.2	4.9	4.2	4.3	5.4	5.8	3.4	5.7
A99-2897	6.1	6.8	6.3	5.1	6.5	5.5	6.6	4.5	4.4	6.5	5.1	3.8	6.9	6.3	6.0	3.9	6.2
AFTER MIDNIGHT	7.2	7.8	5.3	4.6	6.3	5.9	5.4	5.0	6.1	7.3	5.2	8.0	5.7	6.1	6.4	3.4	5.9
AKB3128	6.1	5.8	5.9	5.4	6.1	5.4	6.6	5.3	5.1	7.5	4.9	5.2	5.8	5.2	5.6	4.3	5.2
AKB3179	6.0	5.7	6.8	6.1	6.1	5.1	6.7	5.6	4.7	7.5	5.3	6.0	4.3	5.3	5.1	3.4	6.0
AKB3241	6.2	5.9	6.0	5.4	6.3	5.3	6.0	5.5	4.1	7.5	5.1	5.0	5.5	5.0	5.8	4.3	5.8
AMAZE (NAI-14-133)	5.5	5.3	5.8	5.2	5.8	5.2	6.0	5.4	4.4	6.3	5.2	4.0	4.7	4.2	4.8	3.5	5.6
AVIATOR II (NAI-15-84)	5.9	6.6	5.1	4.7	6.5	4.4	5.7	5.9	4.3	6.5	4.9	4.2	2.1	4.4	5.3	4.1	5.4
BABE	5.8	6.4	6.0	5.1	5.9	5.5	6.3	4.6	4.8	7.5	5.2	6.3	4.1	4.8	5.0	3.6	5.6
BAR PP 71213	6.1	5.9	6.0	4.9	5.6	4.9	6.3	4.2	5.5	7.2	4.7	6.7	6.0	5.7	5.1	3.4	6.1
BAR PP 7236V	6.2	5.7	5.8	5.1	5.7	4.8	6.8	4.2	5.2	7.7	4.8	5.7	5.9	5.8	5.1	3.8	5.8
BAR PP 7309V	5.6	5.9	6.2	5.4	5.9	5.1	6.1	4.8	4.9	7.3	4.9	4.8	4.8	5.6	5.4	4.2	6.1
BAR PP 79366	6.1	6.7	6.0	5.3	6.5	5.9	7.2	5.1	5.5	6.3	5.0	5.2	6.6	6.3	6.0	3.4	5.5
BAR PP 79494	6.8	7.1	7.0	4.7	6.4	5.9	5.6	5.0	6.0	7.2	5.1	5.8	5.0	5.8	6.0	3.2	5.9
BAR PP 7K426	6.2	5.7	6.5	5.3	5.4	5.1	6.6	5.0	4.7	7.3	5.0	5.2	5.0	6.2	4.9	3.5	5.7
BARSERATI (BAR PP 110358)	6.2	6.2	5.8	5.8	6.5	6.2	6.8	5.8	5.8	6.8	5.2	6.5	6.9	6.3	6.1	3.1	5.9
BARVETTE HGT®	6.3	5.4	6.6	5.3	5.9	5.3	6.4	4.6	5.7	7.3	4.9	6.1	5.7	5.8	6.0	3.9	5.9
BLUE DEVIL	6.4	7.1	6.4	4.9	6.4	5.1	6.8	4.8	5.7	6.2	5.0	6.7	4.8	5.0	6.4	3.4	5.5
BLUE GEM (NAI-13-9)	6.4	7.4	6.7	4.8	6.6	5.7	6.0	5.2	5.4	7.2	5.0	6.2	6.0	5.1	6.5	3.6	5.4
BLUE KNIGHT	5.8	6.5	5.2	4.6	6.2	4.3	4.7	4.9	3.3	6.0	4.7	4.1	2.0	5.0	5.6	3.2	5.7
BOMBAY (GO-22B23)	6.5	6.6	5.6	5.6	6.3	5.5	6.8	6.3	5.2	6.2	5.4	8.1	6.9	5.9	5.8	5.2	5.7
CLOUD (GO-2425)	6.8	7.2	6.0	5.7	6.6	5.9	6.5	5.7	6.0	6.3	5.3	7.5	6.5	5.9	6.2	4.2	5.7
COMANCHE (NAI-14-176)	5.7	5.1	6.5	5.6	6.1	5.9	6.1	5.2	3.8	7.3	5.0	4.6	3.1	4.1	4.6	3.3	5.1
DLFPS-340/3364	4.9	5.8	4.8	4.8	6.2	4.3	5.4	4.1	5.1	6.5	4.9	2.7	3.6	5.5	5.9	3.0	6.3
DLFPS-340/3438	5.8	5.7	5.4	5.6	6.1	4.7	6.5	4.6	4.1	6.8	4.9	4.4	5.6	5.0	5.4	4.1	5.4
DLFPS-340/3444	4.8	6.6	6.2	4.6	5.6	4.0	5.9	4.2	4.9	6.7	4.8	5.7	2.1	5.2	4.7	3.4	5.6
DLFPS-340/3446	6.1	5.7	5.4	5.3	6.2	4.4	6.1	5.3	4.7	6.2	4.8	4.3	4.5	5.0	5.1	4.1	5.6
DLFPS-340/3455	5.9	5.8	6.3	5.2	5.5	4.2	6.3	4.7	4.9	7.3	4.9	5.6	4.3	5.2	5.1	3.2	5.4
DLFPS-340/3494	5.9	6.7	5.8	4.6	6.0	5.1	5.2	6.2	5.0	6.8	5.0	5.2	2.3	5.5	6.1	4.0	5.6
DLFPS-340/3500	6.4	6.6	5.6	5.4	6.5	4.7	6.3	5.6	4.0	6.5	4.8	6.0	6.3	6.0	6.0	3.8	5.8
DLFPS-340/3548	6.1	5.8	5.6	5.1	6.0	4.4	5.9	5.3	4.0	6.7	4.7	5.8	3.7	5.1	4.9	3.8	6.2
DLFPS-340/3549	5.8	5.9	6.2	5.2	6.0	4.5	6.7	4.4	4.4	6.8	4.7	6.7	3.4	5.1	4.9	3.0	6.1
DLFPS-340/3550	6.2	6.9	7.1	5.9	6.6	5.2	6.5	6.1	5.4	6.2	5.2	5.7	6.3	5.6	6.1	5.0	5.2
DLFPS-340/3551	5.7	6.2	6.0	5.8	6.4	4.9	6.1	4.9	5.2	6.2	5.1	4.6	5.9	6.1	4.8	4.9	5.4
DLFPS-340/3552	5.6	6.7	6.5	5.8	6.4	5.3	6.4	5.0	4.9	6.2	5.0	5.1	5.9	5.5	5.5	4.6	5.6
DLFPS-340/3553	6.2	6.7	6.0	5.5	6.8	5.4	5.9	4.4	4.6	6.3	5.3	4.9	6.6	5.9	5.8	3.9	5.6
DLFPS-340/3556	6.5	7.1	7.0	4.9	6.6	4.7	6.8	5.4	4.6	6.3	4.9	5.4	6.2	6.0	5.8	4.1	5.3

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 2. (CONT'D)

TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS
GROWN AT SEVENTEEN LOCATIONS IN THE U.S.
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	AR1	CT1	IA1	IN1	KY1	MD1	MI1	MN1	NC1	ND1	NE1	NJ1	NJ2	OK1	TN1	UT1	VA1
FINISH LINE (NAI-14-178)	6.9	6.8	6.4	4.8	6.3	5.4	5.9	5.2	4.0	7.5	5.2	7.0	5.5	4.7	5.3	3.9	5.8
HEARTLAND (NAI-14-187)	5.2	5.5	6.2	4.7	6.2	4.8	5.8	5.7	4.4	6.5	4.9	4.9	3.6	4.8	5.1	3.5	5.2
J-1138	6.5	7.0	6.9	5.1	6.5	6.0	6.1	4.8	6.5	7.2	5.4	6.0	6.1	6.0	6.4	3.0	5.8
J-1319	6.3	7.3	6.9	4.4	6.7	4.8	5.6	6.6	5.7	6.3	5.3	5.5	4.3	5.1	5.6	3.2	5.9
J-2726	6.3	7.4	5.0	4.9	6.3	5.9	6.0	5.4	5.3	6.1	4.9	7.1	4.7	5.4	4.9	3.1	5.9
J-3510	6.7	7.6	7.3	4.7	6.5	5.7	6.6	4.8	5.7	6.2	5.1	6.4	6.2	5.4	6.2	3.4	6.1
JERSEY (NAI-A16-3)	6.3	6.8	6.2	5.1	6.1	5.1	6.3	4.9	4.8	6.5	5.0	8.1	4.4	5.1	4.8	3.5	5.8
KENBLUE	5.3	4.7	6.0	4.6	5.6	3.1	5.3	3.1	3.5	6.2	4.2	4.3	2.1	4.8	4.9	3.0	5.7
KH3492	6.1	6.7	6.9	5.4	6.0	5.4	6.4	4.4	5.1	7.2	5.0	7.3	4.2	5.3	5.1	3.1	5.9
LTP-11-41	6.1	6.4	7.6	5.1	6.4	5.4	6.6	5.4	3.9	6.5	5.2	5.6	5.7	5.5	5.5	4.2	5.7
MIDNIGHT	7.1	7.4	6.7	4.6	6.6	5.3	6.6	4.7	5.3	6.5	5.0	6.2	5.7	5.3	6.1	3.0	4.8
MVS-130	5.6	4.9	6.0	5.6	6.2	5.2	5.9	5.4	4.8	6.5	4.9	5.0	4.1	4.8	5.4	3.3	5.8
NAI-13-132	6.4	7.4	6.8	4.6	6.6	5.5	6.1	4.7	4.9	7.3	5.2	6.1	4.9	5.1	6.4	3.7	5.6
NAI-14-122	5.3	5.5	6.1	5.3	6.0	5.3	6.1	5.6	4.7	6.5	5.3	5.0	3.3	4.5	5.0	3.8	5.9
NAI-14-128	5.7	5.4	7.0	5.6	5.8	5.9	6.7	5.2	4.3	6.3	5.0	5.0	3.9	5.1	5.4	3.6	5.2
NAI-15-80	5.7	5.7	6.7	4.5	5.8	4.7	5.8	5.2	4.6	7.7	5.3	2.0	4.1	4.8	5.3	2.8	5.3
NEW MOON (PST-K15-177)	6.2	6.7	7.0	5.1	6.6	5.7	5.8	6.3	4.4	6.2	5.4	6.7	4.6	5.2	5.3	4.2	5.6
NK-1	5.6	6.2	6.2	5.6	6.0	5.3	5.8	4.1	4.1	6.2	4.8	2.0	5.3	5.6	5.7	3.7	5.8
ORION (PST-K13-143)	6.4	5.7	6.6	5.2	6.0	5.5	6.1	5.2	4.1	6.5	4.8	5.9	3.6	4.7	4.9	3.7	5.8
PALOMA (PST-K13-139)	6.1	5.8	6.2	5.4	5.9	4.4	6.3	5.6	4.3	6.5	4.9	5.9	1.9	4.9	4.5	4.2	5.4
PIVOT	5.9	5.5	5.6	4.8	6.4	5.3	5.7	5.4	5.0	6.8	5.0	4.8	4.5	4.7	6.0	3.9	5.8
PPG-KB 1131	6.8	7.7	5.8	4.9	6.5	6.0	6.4	4.9	5.4	6.6	5.0	6.8	5.7	5.3	6.3	3.8	4.8
PPG-KB 1304	6.2	6.9	6.5	5.6	6.8	5.5	6.7	5.3	5.2	6.3	5.0	5.9	7.4	5.7	5.9	4.8	5.4
PPG-KB 1320	5.7	6.6	6.0	4.8	6.5	5.4	5.7	5.4	3.3	6.7	5.3	6.2	1.0	4.3	4.5	2.7	6.0
PROSPERITY	6.2	7.4	7.0	5.1	6.6	4.3	5.8	5.2	4.3	6.2	5.0	7.0	3.3	4.9	4.7	4.8	5.6
PST-11-7	6.4	7.2	5.6	4.9	5.6	4.9	5.2	5.3	4.1	7.2	4.8	6.4	4.4	5.5	4.6	3.0	6.2
PST-K11-118	6.4	6.3	5.7	5.8	6.4	5.9	6.7	5.3	5.8	6.7	5.1	7.2	5.8	5.8	5.7	3.8	5.3
PST-K13-141	6.1	5.8	6.3	5.4	6.0	4.1	6.3	4.9	4.9	6.8	4.9	4.2	5.7	5.8	5.8	3.8	4.9
PST-K15-157	5.4	5.8	6.6	5.5	6.1	4.5	6.1	5.4	4.7	7.3	5.3	3.8	3.9	5.1	5.3	3.1	5.4
PST-K15-167	6.3	5.6	6.2	4.6	6.4	4.4	4.6	4.6	5.3	7.2	5.0	6.6	4.3	5.5	5.6	3.5	5.5
PST-K15-172	6.3	6.2	6.5	5.6	6.2	4.7	6.2	5.6	5.0	6.1	4.9	7.2	5.9	5.7	5.6	3.3	5.5
PST-T14-39	6.4	5.9	6.5	5.1	5.8	4.0	5.7	5.1	5.2	7.0	5.0	6.6	5.6	5.9	6.0	3.8	5.2
RAD 553	6.1	5.2	5.8	4.9	5.7	4.0	5.6	4.7	4.1	7.3	5.0	4.3	3.7	5.2	5.9	4.5	6.2
RAD-1776	4.9	6.4	5.8	5.8	5.7	5.3	6.4	5.1	4.1	7.0	4.8	4.6	3.3	5.1	4.4	4.0	6.0
SELWAY	5.9	5.6	6.0	4.8	6.1	4.5	5.8	4.3	5.0	6.5	4.9	6.1	4.4	5.3	6.3	4.0	6.0
SHAMROCK	6.1	6.1	6.0	4.8	5.8	3.6	5.6	4.1	4.7	7.3	4.8	6.0	2.9	4.9	5.1	3.5	5.6
SKYE	6.4	6.8	6.5	5.7	6.2	5.5	6.9	5.3	5.6	6.2	5.1	6.7	6.4	5.6	6.0	4.2	6.0
STARR (GO-2628)	6.5	6.7	7.0	5.5	6.4	5.7	6.3	5.8	5.4	6.5	5.1	7.8	6.9	5.7	6.2	4.8	6.1
TWILIGHT (NAI-14-132)	5.1	5.6	6.4	5.4	6.3	5.5	6.7	5.7	3.9	6.3	5.2	3.9	3.9	4.3	5.1	3.6	5.6
UNITED (NAI-13-14)	6.8	7.3	7.3	4.8	6.3	5.8	6.3	5.0	5.4	6.5	4.9	5.4	5.6	5.5	6.4	3.3	5.3
YELLOWSTONE (A12-7)	5.9	6.3	6.6	5.4	6.2	5.3	6.7	5.6	4.8	7.2	5.0	6.9	5.0	5.0	5.4	3.4	5.8
LSD VALUE	0.7	0.7	1.7	0.6	0.5	1.1	1.0	0.9	1.0	0.0	0.4	1.2	1.0	0.9	0.8	0.9	2.5
C.V. (%)	7.3	6.4	16.6	7.7	4.8	13.1	9.8	10.4	13.0	0.4	5.0	13.3	13.5	10.2	8.6	14.9	27.8

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 3.

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT EIGHTEEN LOCATIONS IN THE U.S.
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CA7	CT1	IA1	IL1	KS1	KY1	MD1	MI1	MN1	MO1	NE1	NJ2	OR1	OR2	UT1	UT2	VA1	WI1
O21	5.3	6.4	7.6	3.1	4.8	5.7	5.9	6.0	5.2	4.1	4.9	5.4	6.7	6.5	6.4	5.8	6.4	4.3
O23	6.0	6.4	7.0	3.0	4.6	5.9	4.6	5.5	5.6	4.7	4.8	5.5	6.6	6.4	6.6	5.4	6.6	4.6
O2BS1	4.7	6.3	7.0	5.6	5.0	5.7	4.4	5.3	4.7	3.9	5.0	5.7	6.9	6.4	6.6	5.5	6.7	3.9
O2BS2	5.9	6.7	6.7	3.2	5.4	6.3	6.4	5.7	5.7	5.3	5.1	6.1	6.8	6.3	6.9	5.5	5.7	4.3
ALLOY (RRT)	5.1	7.3	7.2	3.3	5.3	6.2	5.7	6.0	5.3	5.1	4.9	6.4	6.8	6.4	7.3	5.7	6.5	4.1
ALLSTAR III	5.4	6.4	6.0	5.6	4.8	5.1	3.6	5.7	3.7	3.7	5.0	4.2	6.3	5.8	6.3	5.5	5.0	4.3
APPLE 3GL (PPG-PR 339)	4.9	7.4	6.4	7.3	5.3	6.2	5.5	6.0	5.9	5.4	5.1	5.5	6.8	6.4	6.5	6.0	6.2	4.1
APR2612	5.5	5.9	6.6	5.4	5.2	5.9	4.7	5.7	3.9	4.6	4.8	5.0	6.3	5.9	6.1	5.7	5.4	4.2
APR2616	5.6	6.7	6.8	7.9	4.7	5.9	5.2	5.7	5.3	4.5	5.1	5.0	6.3	5.9	6.8	6.0	6.7	4.1
APR3060	5.9	6.1	6.6	5.6	5.0	5.8	4.3	5.3	4.8	4.9	5.1	4.7	5.8	5.7	5.9	5.5	6.7	3.9
ASPO116EXT	5.9	5.8	7.0	7.8	4.8	5.8	4.7	5.3	4.9	3.5	4.5	3.8	6.2	6.0	6.8	6.0	6.4	3.2
ASPO117 (A-PR15)	5.2	6.1	7.0	5.5	5.2	6.0	4.9	5.0	5.8	4.2	4.9	5.0	6.5	6.2	6.5	5.5	5.9	4.6
ASPO118GL (A-4G)	5.4	6.7	6.8	7.4	4.9	6.0	4.9	6.0	4.7	4.8	4.7	4.8	6.6	6.4	6.4	5.7	5.8	3.5
ASPO218 (A-6D)	5.7	6.3	5.8	7.8	4.9	6.0	5.0	5.7	4.3	5.2	4.7	3.7	6.6	6.4	7.0	6.0	6.2	4.5
BAR LP 6117	6.0	6.2	6.7	8.0	5.1	5.7	4.8	5.3	4.5	5.0	5.0	4.3	6.3	5.9	6.3	5.3	6.1	3.4
BAR LP 6131	5.9	5.8	6.9	7.4	4.8	5.4	4.4	5.7	4.6	4.6	5.0	3.4	6.0	5.9	5.7	5.0	6.4	4.3
BAR LP 6158	5.6	5.8	7.0	7.9	5.2	5.6	4.0	5.3	4.2	5.0	4.6	4.4	5.7	5.6	5.8	5.2	6.3	3.9
BAR LP 6159	5.6	5.9	6.9	5.5	5.0	5.6	4.7	5.7	4.7	5.0	5.0	4.0	6.0	5.9	6.2	5.6	5.5	3.7
BAR LP 6162	5.2	5.7	6.2	7.6	4.6	5.2	4.3	4.3	1.9	4.6	4.5	3.0	5.6	5.6	5.6	5.0	6.2	3.2
BAR LP 6164	6.1	6.3	7.2	7.7	5.2	6.0	5.3	5.7	4.7	4.8	5.1	4.5	6.3	6.1	5.9	5.4	6.3	4.0
BAR LP 6165	4.9	5.2	7.6	7.5	4.3	5.6	4.2	4.7	3.9	4.4	5.0	4.7	6.0	6.0	5.0	4.2	6.8	4.3
BAR LP 6233	5.0	6.0	7.2	5.2	5.0	5.9	4.8	5.7	4.8	4.9	5.2	4.8	6.1	6.1	5.8	5.2	6.7	4.8
BELIZE 2 (GO-142)	5.4	6.4	5.6	3.2	5.0	5.7	5.0	5.3	4.3	3.4	4.9	4.0	6.3	6.0	6.3	5.4	6.3	4.1
BRIGHTSTAR SLT	4.7	5.6	6.4	5.1	4.9	5.1	3.1	6.0	4.4	4.1	4.8	3.2	5.9	5.8	6.0	5.5	4.6	3.9
CAYMAN (GO-143)	5.1	6.0	6.0	5.5	5.5	5.6	4.5	5.0	3.8	4.9	4.7	3.2	6.2	6.0	6.7	5.8	5.9	2.9
CPN	5.3	6.9	7.0	5.3	4.9	5.9	4.3	5.7	6.3	4.7	5.2	5.5	6.9	6.6	6.7	5.9	6.9	4.0
CS-6	5.6	5.9	6.1	8.0	4.6	5.8	4.6	5.7	5.4	3.5	4.6	4.0	6.5	6.3	6.8	5.4	6.1	4.4
DERBY XTREME	5.3	6.4	6.1	7.7	4.4	5.6	4.3	5.7	5.0	3.6	5.1	4.5	6.6	6.4	6.4	5.7	5.5	4.1
DLFPS-236/3538	5.6	6.9	7.7	3.2	5.3	5.8	5.3	5.5	5.6	6.3	4.9	5.5	6.3	6.1	6.5	5.9	7.1	4.9
DLFPS-236/3540	5.5	6.6	6.8	7.7	4.9	6.0	4.9	5.0	5.6	4.6	5.2	5.3	6.6	6.3	6.3	5.7	6.1	3.8
DLFPS-236/3541	5.9	6.8	6.5	3.4	5.2	6.4	5.8	5.7	5.7	4.1	5.0	6.3	6.9	6.6	6.5	6.0	6.7	4.0
DLFPS-236/3542	5.2	6.9	7.1	5.7	5.2	5.8	5.4	6.7	4.4	3.9	5.1	6.0	6.7	6.5	7.1	5.5	7.1	3.5
DLFPS-236/3543	5.7	7.5	7.7	5.3	5.0	6.3	5.8	6.0	5.3	4.6	5.1	6.6	6.8	6.5	6.8	5.8	6.3	4.1
DLFPS-236/3544	5.7	6.8	7.3	7.7	5.2	6.0	5.5	6.0	6.2	4.7	5.2	5.4	6.8	6.6	6.6	5.8	6.3	4.3
DLFPS-236/3545	5.4	7.0	7.0	5.6	5.2	6.3	5.5	6.0	4.9	4.7	5.2	6.0	6.9	6.5	6.3	5.5	6.6	5.0
DLFPS-236/3546	5.7	7.3	7.4	7.6	5.4	6.4	4.9	5.7	6.2	5.7	4.8	6.1	6.7	6.7	6.7	5.4	5.7	3.9
DLFPS-236/3547	5.2	7.2	7.7	7.6	5.4	6.3	5.2	6.0	5.7	4.7	5.0	6.8	6.9	6.7	6.5	5.5	6.7	4.3
DLFPS-236/3548	5.1	6.9	7.2	7.7	5.1	6.0	5.6	6.0	5.4	5.4	5.0	5.4	6.4	6.5	6.4	5.7	6.6	4.3
DLFPS-236/3550	5.6	7.1	6.8	7.6	5.0	6.1	5.3	6.0	5.4	4.4	5.1	5.2	6.4	6.2	6.8	6.0	6.5	3.4
DLFPS-236/3552	5.6	7.2	7.0	5.4	5.0	6.1	5.9	6.0	4.6	5.4	5.3	6.0	6.7	6.7	6.8	5.3	6.2	4.0
DLFPS-236/3553	5.5	6.1	7.0	5.5	5.0	5.6	4.8	6.0	5.4	5.0	5.0	6.4	6.6	6.1	6.6	5.8	6.1	4.3
DLFPS-236/3554	5.2	7.3	7.6	7.9	5.0	6.3	5.7	6.0	6.2	5.5	5.2	6.2	6.4	6.2	6.9	5.0	6.3	4.9
DLFPS-236/3556	5.6	6.4	6.5	8.0	4.9	6.4	5.6	6.0	6.0	4.8	5.1	5.6	6.7	6.4	6.2	5.4	6.6	5.5
DLFPS-238/3014	4.9	5.8	7.0	7.7	5.3	4.9	4.4	4.5	3.3	5.4	4.2	3.2	6.3	6.0	5.3	5.2	5.8	4.4
EVOLVE	5.3	6.3	5.9	5.3	4.9	5.9	5.3	6.0	4.4	4.3	4.9	4.5	6.0	5.8	5.8	5.0	6.5	4.4

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 3. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT EIGHTEEN LOCATIONS IN THE U.S.
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																	
	CA7	CT1	IA1	IL1	KS1	KY1	MD1	MI1	MN1	MO1	NE1	NJ2	OR1	OR2	UT1	UT2	VA1	WI1
FASTBALL 3GL (PPG-PR 329)	5.1	6.5	7.0	7.8	5.3	6.1	6.0	5.7	5.4	5.6	5.3	5.8	6.8	6.6	6.9	5.7	6.1	4.2
FIREBALL (BWH)	5.3	5.8	6.7	8.0	4.9	5.5	4.3	5.0	3.7	4.6	4.7	3.2	6.6	6.2	6.7	6.2	5.2	3.6
FURLONG (LTP-FCB)	5.8	6.7	7.5	5.1	5.4	6.2	4.5	5.7	5.7	5.5	5.3	7.1	6.9	6.7	7.4	5.9	6.6	4.0
GO-141	5.1	6.3	6.0	5.8	4.6	5.4	4.0	5.3	4.9	2.9	4.7	3.8	6.0	5.7	6.4	5.6	6.4	3.9
GRAND SLAM GLD	5.9	6.9	7.1	1.0	4.9	5.7	5.7	5.0	5.1	4.4	5.0	5.4	6.4	6.3	6.6	6.0	6.5	3.4
GRAY HAWK (PST-2FIND)	5.4	6.1	6.8	5.3	5.1	6.0	4.7	5.3	5.2	3.9	5.1	4.9	6.4	6.3	6.4	5.5	6.0	3.9
GRAY WOLF (PST-2GAL)	5.5	6.7	6.9	7.9	5.1	6.1	5.1	5.7	4.4	5.1	5.1	5.8	6.6	6.3	6.9	6.0	6.7	3.3
GREEN SUPREME+ (AMP-R1)	5.4	6.0	6.3	5.5	5.2	5.9	4.5	5.3	4.4	4.7	4.0	3.6	6.2	5.9	6.5	5.9	5.4	2.9
HATRICK (BSP-17)	4.9	5.9	7.1	5.8	5.0	5.6	5.3	5.0	4.1	4.8	4.3	3.9	6.4	6.1	6.6	6.2	5.3	3.9
HOMERUN LS (PPG-PR 419)	4.9	7.4	6.9	7.6	5.0	6.0	5.1	5.7	5.4	4.8	5.3	5.2	6.8	6.4	6.8	6.0	6.9	4.3
INTENSE	5.3	6.5	6.7	7.9	4.7	5.3	5.5	6.0	4.4	3.5	5.0	5.8	6.6	6.4	6.6	5.6	6.9	4.5
JR-123	5.6	6.6	6.0	5.4	5.5	5.4	5.6	5.7	5.0	5.0	4.8	4.8	6.5	6.2	6.7	5.7	5.8	2.9
JR-197	5.8	7.1	7.5	5.6	5.3	6.0	4.6	6.5	5.7	4.5	5.3	6.8	7.1	6.7	6.1	5.6	6.6	4.7
JR-747	4.1	5.9	5.2	7.7	4.4	4.7	2.9	5.3	4.1	2.9	5.0	4.3	6.4	6.3	6.6	5.1	5.8	2.7
JR-888	4.7	5.7	6.0	3.3	4.5	5.2	3.3	5.3	5.4	4.3	4.9	4.1	6.2	6.0	5.9	5.2	5.2	3.8
KARMA	5.2	6.4	6.1	7.9	.	5.8	4.5	6.0	5.2	3.9	5.1	5.0	6.5	6.3	6.1	5.4	5.8	4.4
LINN	3.9	3.7	4.6	2.0	3.6	2.6	1.0	2.7	1.0	2.7	3.1	1.0	5.3	5.2	2.9	4.1	3.2	2.6
LPB-SD-101	4.0	6.3	5.9	7.9	4.6	4.6	3.3	5.3	5.8	2.6	4.8	3.9	6.4	6.4	6.1	4.7	5.4	3.6
LPB-SD-102	4.2	6.4	6.5	7.4	4.3	4.9	3.6	6.0	4.9	2.2	4.7	4.6	6.8	6.4	6.5	5.3	4.7	3.2
LPB-SD-103	4.5	5.9	6.2	8.1	4.6	5.1	3.2	5.3	5.2	2.0	4.9	4.4	6.4	6.2	6.3	5.3	5.2	4.2
LPB-SD-104	4.2	5.9	6.2	5.4	4.6	4.9	2.8	5.7	3.7	1.7	4.9	4.7	6.1	6.0	6.4	4.0	4.7	3.0
LPB-SD-105	4.4	5.5	6.5	5.2	4.0	4.8	2.4	7.0	4.7	3.4	4.9	3.8	6.4	6.0	6.3	4.4	4.5	3.4
MAN O WAR	5.4	6.6	7.4	1.0	4.7	5.7	4.5	5.7	4.9	3.2	4.7	5.1	6.7	6.3	6.3	5.5	5.8	4.1
MENSA	4.7	6.2	6.3	8.0	4.6	4.9	3.4	5.7	4.8	3.2	4.7	4.8	6.2	6.2	6.3	4.9	4.5	3.8
MRSL-PR15	5.3	5.9	6.4	5.7	5.0	5.7	4.7	5.0	4.0	3.8	4.9	4.4	6.2	6.2	6.9	5.6	5.9	3.9
MRSL-PR16	6.1	5.5	7.0	5.4	5.0	6.1	4.8	5.7	4.7	4.7	4.6	4.5	6.4	6.0	6.4	5.8	6.4	4.1
NEXUS GT (SNX)	5.2	5.5	6.6	5.5	5.2	5.9	4.7	5.3	4.0	4.8	4.6	3.5	6.3	6.1	6.6	6.2	6.1	3.4
NP-2	6.1	6.3	7.2	8.0	5.0	6.2	5.1	5.7	5.7	4.8	5.1	6.1	6.7	6.4	6.8	5.8	5.8	4.4
NP-3	5.7	7.2	7.0	8.3	5.0	6.1	4.9	5.7	5.9	5.6	4.8	5.9	6.8	6.4	6.6	5.6	5.7	4.9
OVERDRIVE 5G	5.6	6.8	7.1	8.1	4.7	5.6	4.5	6.0	5.7	3.8	5.2	6.1	6.9	6.6	6.5	5.8	6.5	4.7
PARADOX GLR (PPG-PR 331)	5.6	6.7	6.7	7.9	5.0	6.4	4.3	6.0	6.2	4.6	5.1	4.7	6.6	6.3	6.7	5.9	5.7	4.1
PARAGON ZGLR (FP2)	5.8	6.2	7.1	5.3	4.6	5.7	4.3	5.3	5.8	5.1	5.0	5.4	6.7	6.5	6.7	6.3	5.9	3.9
PEPPER II (RAD-PR 103)	5.4	6.0	7.0	5.5	5.1	5.4	4.1	5.3	3.6	5.1	4.5	3.7	6.6	6.3	6.4	6.0	5.9	3.6
PHARAOH	5.0	7.4	7.2	5.5	4.8	5.7	4.9	6.3	4.6	4.5	5.1	5.2	6.7	6.4	6.6	5.5	6.3	4.1
PL2	5.6	6.9	7.2	8.1	4.8	6.3	6.0	6.0	6.3	5.6	5.1	6.3	6.4	6.3	6.7	5.3	6.3	4.9
PPG-PR 360	4.9	6.9	7.1	5.2	5.2	5.9	5.8	6.0	5.2	4.8	5.1	6.0	6.6	6.4	6.9	5.8	6.2	4.6
PPG-PR 367	6.1	6.7	6.6	7.7	4.8	5.5	5.7	5.7	6.1	4.6	5.2	5.5	7.3	6.8	6.4	5.9	6.8	4.6
PPG-PR 370	5.1	7.1	7.1	5.5	5.0	6.3	5.4	5.7	5.2	5.1	5.2	5.8	6.7	6.3	7.0	5.9	6.2	4.3
PPG-PR 371	5.2	6.9	7.2	7.4	5.3	5.9	5.6	6.0	4.4	6.1	5.1	5.8	6.7	6.6	6.9	6.1	6.8	3.9
PPG-PR 372	5.4	6.7	7.1	7.6	4.5	6.2	5.3	5.3	6.3	4.9	5.2	6.2	7.0	6.5	7.0	5.6	6.7	3.7
PPG-PR 385	5.5	6.4	7.1	5.3	5.3	5.9	4.4	5.3	4.8	5.1	5.0	5.3	6.2	6.1	6.2	5.6	6.9	4.1
PPG-PR 420	5.1	7.1	7.3	5.4	5.3	6.2	5.2	6.0	5.4	5.8	5.3	5.8	6.7	6.4	6.7	6.1	7.1	3.9
PPG-PR 421	5.8	7.2	7.4	7.5	5.7	6.4	5.7	6.0	5.2	5.4	5.4	6.6	6.6	6.5	7.2	5.6	6.7	4.7
PPG-PR 422	5.5	7.0	7.3	7.6	4.9	6.0	5.2	5.7	5.8	5.1	5.2	5.7	6.9	6.8	6.5	6.0	6.9	4.3
PPG-PR 423	5.3	7.1	7.2	7.9	4.9	6.3	5.2	5.3	5.9	4.9	5.3	6.3	6.6	6.4	6.8	5.9	6.9	5.1

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 3. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT EIGHTEEN LOCATIONS IN THE U.S.
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																	
	CA7	CT1	IA1	IL1	KS1	KY1	MD1	MI1	MN1	MO1	NE1	NJ2	OR1	OR2	UT1	UT2	VA1	WI1
PPG-PR 424	5.5	7.4	7.4	5.5	4.8	6.0	5.1	6.0	6.0	4.3	5.1	5.9	6.9	6.6	7.0	6.3	6.8	5.1
PR-5-16	5.8	6.5	7.2	5.9	5.0	5.9	4.8	6.0	5.8	5.1	5.3	5.6	6.5	6.1	6.4	5.7	6.7	4.5
PR-6-15	5.3	6.7	7.6	7.8	5.0	5.9	5.1	6.0	6.0	4.3	5.3	6.1	6.7	6.5	6.9	5.6	6.7	4.3
PST-2A2	5.2	6.8	6.8	7.8	5.0	5.9	4.7	5.7	5.4	2.9	4.9	5.7	6.8	6.5	6.9	6.0	6.0	5.0
PST-2BDT	5.8	7.1	6.7	5.6	4.9	5.9	4.6	6.0	4.9	4.9	5.1	5.0	6.5	6.2	6.2	5.9	6.0	4.3
PST-2EGAD	5.4	6.4	6.8	5.5	4.6	6.1	5.5	5.3	4.8	4.2	5.4	4.5	6.4	6.2	6.3	5.4	5.9	3.8
PST-2FOXY	6.2	7.1	7.0	5.6	5.1	6.0	5.6	5.7	5.3	5.0	5.1	4.8	6.8	6.5	6.8	5.6	6.3	4.2
PST-2GTD	5.8	6.9	7.3	3.4	5.1	6.3	5.3	5.7	4.9	4.7	5.3	5.2	6.5	6.3	6.2	5.8	6.8	4.9
PST-2MAY	5.4	6.6	7.1	5.4	.	6.2	5.3	5.3	4.8	4.9	4.9	5.0	6.4	6.3	6.8	5.7	6.0	3.7
PST-2PDA	5.5	6.1	7.0	7.7	5.4	5.8	4.2	5.3	4.6	3.3	5.0	5.1	6.1	5.8	6.0	5.8	5.9	4.2
RAD-PR 112	4.8	5.6	7.3	7.6	5.0	5.6	4.5	5.3	3.9	3.8	4.3	4.1	6.7	6.4	6.8	6.5	5.4	3.2
SAGUARO	4.9	5.9	5.8	7.6	4.5	5.2	3.7	5.7	5.6	3.8	4.9	4.3	6.2	6.1	6.6	5.4	5.1	4.7
SAVANT	3.9	6.0	6.0	7.5	4.5	5.2	2.8	6.3	4.1	3.4	4.8	4.3	6.2	6.0	6.2	5.6	4.4	4.6
SEABISCUIT	5.6	6.7	7.3	3.5	5.2	5.9	5.3	5.3	4.8	5.3	5.0	5.3	6.6	6.3	6.2	5.6	6.2	3.9
SHIELD (02BS4)	5.7	6.9	7.1	8.0	5.0	6.1	6.0	5.7	5.1	5.3	5.0	5.7	6.6	6.2	6.2	6.0	5.9	4.2
SIGNET	5.5	6.8	6.9	5.0	5.4	5.9	4.8	6.0	4.9	4.4	5.0	5.8	6.1	6.0	6.5	5.8	6.2	4.1
SILVER SPORT (PST-2CRP)	5.1	6.1	7.3	5.7	5.3	6.1	4.9	6.5	5.7	4.7	5.3	5.9	6.6	6.3	6.9	6.0	6.1	4.6
SLIDER LS (PPG-PR 241)	5.5	6.8	6.9	3.2	4.9	6.4	5.1	5.7	5.4	4.9	5.3	5.0	6.4	6.5	6.1	5.4	6.2	4.3
SLUGGER 3GL (PPG-PR 343)	5.6	7.1	7.2	7.7	5.5	6.3	5.4	5.7	5.7	4.8	4.9	6.8	6.8	6.5	7.1	5.9	6.9	3.4
SPIKE GLS (UF3)	5.1	6.6	6.7	5.6	4.9	5.9	5.3	5.5	5.9	5.3	5.0	5.9	6.9	6.4	6.6	6.0	6.4	3.8
SR 4650	5.4	6.4	6.7	8.0	5.0	6.1	3.9	5.7	5.8	3.5	5.1	5.2	6.4	6.2	6.6	5.7	5.7	3.8
TEE-ME-UP (BSP-25)	4.9	5.7	6.8	7.9	5.0	5.7	4.8	5.0	3.4	4.1	4.4	4.2	6.4	6.4	6.5	5.9	5.7	3.9
UMPQUA	4.6	6.7	7.7	5.5	4.7	5.9	5.2	5.7	6.1	3.8	5.0	5.9	6.7	6.3	6.3	5.5	6.6	3.9
XCELERATOR	4.8	6.7	7.1	8.1	4.7	6.0	5.2	5.7	5.6	4.9	4.8	6.0	6.8	6.4	6.7	5.4	7.3	4.4
LSD VALUE	1.2	0.8	0.8	4.4	0.8	0.5	1.0	0.9	1.5	1.5	0.4	0.9	0.5	0.5	0.6	0.7	1.2	1.2
C.C. (%)	14.1	7.5	7.1	43.9	10.4	5.2	12.5	9.7	18.2	21.2	5.5	11.1	4.9	4.6	5.6	7.9	11.9	18.3

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF WARM-SEASON CULTIVARS
GROWN UNDER LOW INPUT AT EIGHT LOCATIONS IN THE U.S.
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME		CA7	FL3	FL4	MS1	NC1	NM1	TX2	UT1
16-TZ-14114	ZOYSIA	7.2	6.9	6.0	5.6	7.0	5.5	6.1	6.3
ASC-117	BERMUDA	6.5	5.7	1.9	3.6	4.4	4.8	4.6	2.9
CODY	BUFFALO	6.8	5.8	2.3	5.4	5.2	5.0	4.9	5.6
FAES 1322	ZOYSIA	3.3	6.3	4.8	5.8	4.1	4.9	6.2	7.2
FB 1628	ZOYSIA	5.8	6.7	5.0	6.1	6.9	6.6	5.9	7.0
HABITURF	BUFFALO	6.6	5.5	2.0	5.4	4.3	4.4	5.0	5.4
MEYER	ZOYSIA	4.9	6.3	4.7	5.4	4.7	4.0	5.6	6.8
MIDIRON	BERMUDA	6.2	6.6	2.1	5.2	6.8	6.0	5.7	5.7
TIFWAY	BERMUDA	6.9	6.7	6.0	5.6	7.1	7.0	5.7	6.1
XZ 14069	ZOYSIA	5.5	6.6	6.1	6.2	4.9	5.0	6.4	7.1
LSD VALUE		1.4	0.4	0.8	0.4	0.9	0.8	0.5	2.0
C.V. (%)		14.2	3.7	12.7	4.1	10.0	9.2	5.9	20.2

- 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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS
GROWN AT EIGHT LOCATIONS IN THE U.S. 1/
2019 DATA

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

NAME	AL1	FL3	FL5	FL6	MS1	NC1	TX1	TX2
CITRABLUE (FSA 1602)	6.1	7.2	8.4	8.4	5.7	5.3	6.1	4.8
DALSA 1316	4.0	6.5	5.8	5.2	5.2	4.4	6.6	5.6
DALSA 1323	1.9	5.6	5.4	4.9	5.4	4.5	6.4	4.6
DALSA 1404	4.9	6.9	6.7	5.9	5.2	5.5	6.5	6.3
DALSA 1501	6.3	6.6	7.0	6.0	5.8	5.9	7.3	6.4
DALSA 1502	6.4	6.3	6.2	5.3	5.9	5.4	8.1	6.6
DALSA 1618	7.4	6.7	6.3	5.7	5.6	6.0	7.6	6.6
DALSA 1623	4.2	6.5	6.4	6.1	5.5	5.9	6.6	6.3
FLORATAM	4.9	5.5	6.9	6.5	4.9	3.8	6.3	5.0
FSA 1601	4.6	6.0	6.9	6.4	6.3	3.8	5.5	4.3
FSA 1603	3.2	6.3	6.1	5.4	5.9	4.3	5.5	4.2
FSA 1604	4.0	6.2	6.9	6.3	5.6	3.4	5.0	5.5
FSA 1605	5.1	5.5	7.2	6.6	5.3	4.7	5.7	5.1
FSA 1606	3.8	6.4	8.0	7.7	5.5	4.7	5.7	5.6
FSA 1607	4.6	6.7	7.3	6.7	4.2	4.1	6.4	5.2
FSA 1608	6.5	6.4	6.3	6.0	5.8	5.7	6.9	5.3
FSA 1609	2.7	6.3	7.2	6.5	5.2	3.8	5.7	6.0
FSA 1610	4.7	6.3	8.0	7.3	5.7	3.3	5.7	5.3
FSA 1611	2.2	5.3	6.2	5.7	4.8	4.1	4.7	4.2
FSA 1612	1.5	5.0	5.9	5.5	4.5	3.0	5.4	3.9
FSA 1613	6.7	6.7	7.1	6.8	5.8	6.0	6.7	5.9
FSA 1614	5.8	6.1	6.7	6.1	5.5	4.0	6.9	5.0
PALMETTO	6.7	6.2	7.1	6.9	5.8	5.6	7.0	5.8
RALEIGH	5.5	5.8	6.6	6.2	5.4	5.9	6.4	5.2
UGA/TX SA26	5.5	5.8	6.5	6.0	5.8	6.0	6.7	5.9
XSA10403	2.8	5.9	6.2	5.7	4.8	3.6	4.3	3.6
XSA11168	4.5	5.6	6.3	6.0	5.3	3.5	4.4	5.2
LSD VALUE	2.2	0.8	1.3	1.1	0.5	1.2	1.0	1.4
C.V. (%)	28.9	8.5	11.7	11.2	5.5	16.3	10.2	14.9

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF SEASHORE PASPALUM CULTIVARS
GROWN AT FIVE LOCATIONS IN THE U.S. 1/
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	AL1	AR1	FL3	MS1	OK1
SALAM	5.0	5.8	6.6	6.0	6.4
SEA ISLE 1	5.1	7.2	6.3	5.9	6.3
SEASTAR	4.8	7.2	6.1	5.4	6.4
UGA 1743	5.8	7.2	.	6.0	6.1
UGA HYB2	4.6	6.7	6.1	5.7	6.2
UGA SR14-1E	5.3	5.8	5.6	5.4	5.5
UGA SR15-14	4.9	8.7	5.9	5.6	6.2
UGA SR15-15	5.0	8.2	6.3	5.9	6.4
UGP 73	5.2	6.8	6.5	6.4	6.3
UGP 94	5.4	7.0	7.1	6.0	6.3
LSD VALUE	0.7	0.4	0.8	0.4	0.3
C.V. (%)	8.5	3.9	7.6	4.2	3.2

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 7.

MEAN TURFGRASS QUALITY RATINGS OF COOL-SEASON CULTIVARS
GROWN UNDER LOW INPUT AT FIFTEEN LOCATIONS IN THE U.S.
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF														
	CT1	CT2	IN1	IN2	MD1	MI1	MN1	MO1	MO2	NC1	NE1	OR1	PA2	UT1	VA1
A-SFT	4.7	4.5	5.7	5.9	2.3	5.7	3.7	4.9	5.5	4.6	4.1	2.8	2.3	3.2	5.2
BEWITCHED	3.4	3.6	4.4	4.6	1.5	5.3	2.1	3.4	4.9	1.6	4.1	3.6	3.0	1.2	5.1
BGR-TF3	5.0	5.3	5.9	5.8	3.2	5.4	3.4	5.2	5.8	5.1	3.5	2.8	3.0	3.8	5.2
BULLSEYE	5.3	5.2	5.3	5.1	2.5	5.6	3.4	5.5	5.6	5.5	3.9	2.7	2.8	4.1	5.3
CHANTILLY	4.1	4.2	5.6	5.1	3.3	6.0	4.9	4.4	4.4	2.5	3.3	3.1	2.3	1.3	5.2
CRS MIX #1	5.6	5.4	5.9	4.6	5.5	5.5	5.4	4.6	3.9	3.1	4.0	3.4	2.3	1.6	5.7
CRS MIX #2	5.1	5.1	5.1	4.8	5.0	6.0	5.2	4.6	4.3	3.5	3.6	3.5	2.6	1.1	5.9
CRS MIX #3	6.7	6.6	3.1	2.4	5.0	5.9	3.3	4.2	3.8	4.0	3.8	3.7	2.6	1.0	5.5
CS MIX	4.5	4.9	5.4	5.3	3.3	5.9	4.5	4.5	3.9	2.8	3.8	3.2	2.6	1.6	5.8
DLFPS CHCRM	5.6	5.8	5.7	5.3	3.7	5.8	4.4	4.7	4.1	2.9	3.9	2.3	3.6	1.7	5.6
DLFPS CHCRSH	4.8	4.6	5.7	5.5	3.9	5.7	5.1	5.1	4.6	2.8	3.6	4.1	2.6	2.0	5.4
DLFPS SHHM	4.6	5.0	3.5	2.9	4.1	5.7	1.4	4.3	4.8	2.6	3.5	3.4	2.0	1.0	6.3
DLFPS TF-A	4.8	5.2	5.2	5.9	2.9	5.5	3.7	5.9	6.6	6.3	4.0	3.9	3.0	3.4	5.4
DLFPS TFAM	6.3	6.4	4.8	5.4	2.4	5.6	1.4	6.8	7.6	7.0	3.5	3.9	2.5	3.2	5.6
DLFPS TFASTC	6.1	6.7	6.0	5.6	2.8	5.9	4.1	6.2	7.0	5.9	3.9	3.6	3.0	3.4	5.8
DTT TALL FESCUE MIX	4.8	4.3	5.8	6.0	2.1	6.3	4.1	5.5	6.1	4.9	3.8	2.8	2.6	4.1	5.2
DTTHO TF/KBG MIX	4.8	5.4	5.6	6.1	2.3	5.6	3.9	6.1	6.1	3.4	3.7	3.1	2.6	4.5	5.0
DUTCH WHITE CLOVER	2.3	1.6	2.7	2.8	1.6	5.9	1.1	3.2	3.4	1.7	3.9	2.9	2.3	1.0	4.3
KENBLUE	2.3	1.8	4.4	4.1	1.8	5.1	3.8	5.3	5.2	2.3	3.4	3.9	2.9	1.3	5.2
KINGDOM	4.8	4.6	6.0	5.6	1.7	5.8	3.6	4.8	6.0	3.3	3.2	3.7	2.4	3.7	5.4
KY-31 E+	4.3	4.2	4.4	4.7	1.7	5.9	2.8	4.8	5.7	2.4	3.8	3.2	2.4	4.2	5.2
MNHD-15	5.1	5.1	5.3	4.6	5.2	5.6	5.1	5.1	5.3	1.9	4.0	3.6	2.4	1.1	5.3
NATURAL KNIT ® PRG MIX	3.3	3.6	4.0	4.1	1.0	6.3	1.1	3.2	4.0	1.5	3.8	3.0	2.7	1.1	4.4
NORTHERN MIXTURE	3.6	3.8	5.6	5.5	3.3	5.9	4.3	5.0	5.3	4.0	4.0	2.8	2.7	1.4	4.9
QUATRO	3.4	2.9	4.2	4.2	2.9	5.8	3.4	4.4	3.9	1.3	3.7	3.5	2.9	1.2	5.4
RADAR	4.5	4.8	6.1	5.7	3.9	4.7	4.7	4.7	4.1	3.4	3.6	3.7	2.0	2.1	4.8
RESOLUTE (7H7)	4.8	3.9	4.7	4.1	4.4	5.6	5.2	4.6	4.0	2.5	3.9	3.8	2.6	1.1	6.2
SOUTHERN MIXTURE	4.4	4.2	5.4	5.8	3.8	5.7	4.0	5.9	6.2	3.2	3.5	3.2	2.5	3.9	5.4
SPARTAN II	3.9	4.6	4.4	4.6	4.2	4.9	4.9	4.6	4.4	2.4	3.5	2.7	2.8	1.1	6.0
VITALITY DOUBLE	4.8	5.9	5.5	5.3	3.3	5.7	4.2	6.0	6.5	5.9	3.8	3.4	2.4	4.1	6.2
VITALITY LOW	4.9	5.3	5.8	5.3	4.5	5.8	4.9	5.0	4.6	3.3	3.9	3.7	3.0	2.9	5.7
YAAK	3.6	3.1	4.9	5.2	2.4	5.4	4.2	3.8	4.7	4.5	3.4	2.6	2.4	5.7	4.7
LSD VALUE	0.9	0.7	1.0	0.8	0.7	1.1	0.9	0.9	0.9	1.5	0.8	1.6	0.7	0.7	0.8
C.V. (%)	12.6	10.0	12.1	10.0	14.1	12.0	14.8	11.1	10.8	26.0	13.5	30.4	17.2	18.1	9.0

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

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

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 8. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE AT TEN LOCATIONS IN THE U.S. 1/ 2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									
	IA1	IL1	IN1	KS1	MD1	MI1	MO1	ND1	NJ1	UT1
007	6.6	7.5	6.1	7.2	7.0	7.1	6.3	7.2	6.0	5.2
ARMOR	5.3	6.5	5.5	6.2	5.2	7.1	5.7	6.7	4.0	6.1
BARRACUDA	7.0	7.4	6.5	6.7	6.6	6.9	6.0	7.3	5.7	4.3
CHINOOK (H10G-OP)	7.4	7.6	7.2	6.6	7.3	7.3	6.1	7.3	6.4	5.1
CRYSTAL BLUE LINKS	6.0	7.7	5.9	6.7	6.7	7.0	6.1	7.5	4.3	4.3
DLFPS-AT/3026	5.8	6.2	5.6	5.6	4.9	6.7	5.5	6.9	6.1	4.5
GREENTIME	6.3	6.7	5.5	6.2	3.2	6.7	4.5	6.7	4.1	2.6
KINGDOM	5.5	7.7	5.5	5.7	5.0	7.1	4.7	7.5	3.3	5.8
L-93XD	6.6	7.3	6.9	7.2	6.8	6.8	5.6	7.3	6.8	3.7
MUSKET (PPG-AT 104)	5.9	6.6	5.9	6.0	5.9	7.1	5.3	7.1	5.8	4.8
NIGHTLIFE	5.5	7.7	6.4	6.1	6.4	7.3	5.7	6.9	4.0	5.7
PC2.0 (PST-OCV6)	6.0	7.7	6.3	6.8	4.7	7.0	5.5	7.1	4.3	5.3
PENNCROSS	5.5	7.8	4.7	6.2	3.6	6.5	5.0	7.1	.	4.3
PIRANHA (DC-1)	7.4	7.7	6.8	7.3	6.6	6.6	5.9	7.4	7.2	5.5
PST-ORBS	5.8	7.4	5.9	6.7	4.3	6.9	6.0	7.4	3.4	5.0
SHARK	6.0	7.6	6.3	6.6	6.7	7.1	6.0	7.7	5.1	4.9
V-8	6.0	7.3	6.3	6.3	5.7	7.1	6.0	6.9	5.5	4.8
LSD VALUE	0.7	0.4	0.9	0.7	0.9	0.7	0.8	0.4	1.2	0.8
C.V. (%)	6.8	3.1	8.7	6.7	9.7	6.6	9.1	3.9	13.2	10.6

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 9. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN AT TWELVE LOCATIONS IN THE U.S. 1/
2019 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/											
	GA3	IA1	IN1	KS1	MI1	MN1	MO1	NC1	NJ1	OK1	UT1	UT2
777 (DLFPS-AP/3054)	7.0	8.1	6.3	5.2	6.3	4.5	5.4	6.9	5.9	5.6	6.3	5.2
ARMOR	6.3	6.6	5.8	3.3	5.0	2.6	4.2	6.0	3.7	6.2	6.1	5.4
BARRACUDA	6.6	7.5	6.7	5.6	6.0	4.8	6.1	6.6	5.1	6.0	5.9	5.7
DECLARATION	6.1	7.6	6.6	5.8	5.3	5.1	5.4	6.7	5.7	4.4	5.4	4.3
MACDONALD (DLFPS-AP/3018)	6.8	7.6	6.7	5.3	6.3	4.4	5.6	6.7	6.1	5.1	6.6	5.5
DLFPS-AP/3056	6.6	7.8	5.7	4.8	6.0	3.8	6.1	5.9	4.9	3.7	5.6	4.4
DLFPS-AP/3058	7.1	7.8	7.6	5.4	6.3	4.6	6.2	6.5	5.5	6.6	6.4	5.6
DLFPS-AP/3059	6.5	7.2	7.1	4.8	5.7	3.8	5.7	6.6	4.3	6.5	5.5	5.2
KINGDOM	6.1	6.7	6.3	4.3	5.3	3.7	5.3	6.4	4.6	6.1	6.2	5.5
L-93 XD	6.8	7.7	7.9	5.5	6.7	5.1	5.7	7.1	6.2	5.0	6.2	4.9
LUMINARY	7.1	7.5	6.6	5.3	5.3	4.8	6.3	6.5	6.3	5.4	6.0	5.0
NIGHTLIFE	6.2	6.9	6.3	3.8	5.3	3.4	5.4	6.3	4.5	6.5	6.6	5.3
PENN A-1	6.5	6.9	6.6	4.8	5.0	3.7	5.7	6.5	3.2	5.7	5.8	5.4
PENNCROSS	6.0	6.0	5.7	4.5	4.3	2.8	3.5	4.4	1.2	5.4	3.0	3.2
PIRANHA (DC-1)	6.8	8.0	7.9	5.7	6.7	4.3	6.0	7.0	7.0	4.3	6.0	5.3
PURE ECLIPSE (PST-ROPS)	6.8	7.0	6.9	3.8	6.3	4.0	6.0	6.6	4.8	3.3	6.3	4.7
PURE SELECT	6.5	7.2	6.2	4.3	6.3	3.3	6.0	6.5	4.7	6.0	6.4	5.5
SHARK	6.4	6.8	6.9	3.7	6.0	4.1	5.5	6.4	4.5	6.4	5.7	4.9
TOUR PRO (GDE)	6.6	7.4	7.5	5.9	6.3	4.9	5.9	6.7	5.9	6.8	6.2	5.1
V-8	6.4	6.8	7.2	5.2	6.0	4.1	5.8	6.4	4.4	5.7	6.3	5.5
LSD VALUE	0.6	1.0	1.0	0.7	0.8	0.7	0.5	0.6	1.1	2.1	0.9	0.9
C.V. (%)	5.3	8.2	9.6	8.5	8.3	9.5	5.5	5.8	13.4	24.0	9.1	11.1

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.

PRELIMINARY DATA - NOT FOR PUBLICATION

TABLE 10.

MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN AT EIGHTEEN LOCATIONS IN THE U.S. AND CANADA
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CT1	CT2	IL2	IN1	MD1	MI1	MI2	MI3	MN1	MN2	MN3	MO1	NC1	ND1	NJ1	NJ2	OR1	OR2
7C34	5.4	3.8	6.1	4.3	4.5	6.0	6.4	5.9	4.1	4.5	4.5	5.1	4.8	7.2	8.4	3.8	6.1	6.0
BAR VV-VP3-CT	5.9	4.7	6.7	5.1	3.5	6.2	6.7	6.3	5.6	5.6	6.4	5.6	4.3	7.0	5.7	4.3	5.7	5.7
BARPEARL (BAR FRT 5002)	4.4	1.8	7.1	.	4.3	7.1	6.1	5.7	5.4	4.3	6.6	4.9	.	7.2	4.0	4.1	5.8	5.6
BEACON	4.0	2.1	5.1	2.3	5.3	6.5	6.7	5.9	5.3	6.1	5.7	5.4	2.6	6.9	6.7	4.9	5.9	5.6
BEUDIN	3.7	1.4	6.3	4.9	4.3	7.1	5.9	5.5	4.2	5.1	5.4	5.2	2.0	7.3	3.6	2.9	6.1	5.9
BOLSTER (C14-OS3)	6.2	4.3	6.2	5.1	5.3	6.3	7.4	6.5	6.1	5.7	6.8	6.5	3.6	6.9	8.6	4.1	5.7	5.6
BOREAL	4.2	2.4	6.9	5.1	3.1	5.4	4.7	3.9	3.3	2.9	3.6	5.1	3.8	7.1	6.2	2.6	5.8	5.6
CARDINAL II (PPG-FRR 111)	4.9	2.3	3.3	5.6	4.4	6.1	6.1	5.5	3.1	4.1	4.1	5.8	4.2	6.8	7.8	4.7	6.0	5.9
CASCADE	5.3	3.9	6.4	4.9	3.7	5.9	5.3	5.1	3.9	3.7	5.2	5.8	4.4	6.6	7.1	3.3	5.4	5.2
CASTLE (RAD-FC32)	5.1	2.6	7.0	3.9	4.9	6.9	5.9	5.6	4.6	5.1	5.4	5.6	3.1	6.6	5.6	4.4	5.7	5.3
COMPASS II (PPG-FRC 113)	6.4	3.3	6.6	6.9	5.3	6.5	7.1	6.1	5.3	5.6	6.2	7.0	4.8	6.5	7.7	4.8	5.8	5.4
DLF-FRC 3338	6.3	3.8	8.0	5.2	5.4	6.7	6.7	6.1	4.7	5.5	6.1	6.6	4.3	6.5	8.2	4.3	5.9	5.7
DLF-FRR 6162	5.1	2.6	7.3	5.1	4.8	5.9	6.0	5.5	3.5	4.2	3.9	5.6	4.8	7.2	8.2	4.1	5.8	5.5
DLFPS-FL/3060	5.1	2.2	6.2	3.3	5.9	7.0	7.3	6.3	6.1	6.7	5.9	5.0	2.5	7.0	5.7	4.8	5.8	5.3
DLFPS-FL/3066	4.4	1.7	4.4	3.5	5.8	5.9	6.9	6.3	5.6	6.7	5.8	5.1	.	7.7	6.1	5.3	5.8	5.4
DLFPS-FRC/3057	6.2	4.3	6.2	5.1	5.2	6.5	6.7	6.2	6.1	5.6	7.1	6.8	4.9	6.5	7.9	4.0	5.8	5.7
DLFPS-FRC/3060	6.6	3.6	5.6	5.3	4.4	6.2	6.4	5.8	5.1	4.9	6.2	5.5	3.4	7.3	8.4	4.0	5.7	5.6
DLFPS-FRR/3068	4.5	2.4	6.7	5.9	5.0	6.2	5.5	5.1	4.2	4.1	4.0	5.2	3.8	6.7	8.0	2.9	5.5	5.3
DLFPS-FRR/3069	4.2	2.0	2.7	4.7	4.1	6.1	5.1	4.7	3.4	4.0	3.7	5.2	3.8	6.7	6.7	3.1	5.9	5.5
GLADIATOR (TH456)	4.7	1.9	6.8	3.4	6.8	7.3	7.1	5.9	5.4	6.9	6.0	5.2	4.1	7.7	5.2	5.6	6.0	5.3
JETTY (PPG-FL 106)	5.0	2.4	4.8	3.0	5.9	6.5	7.1	6.3	6.1	6.6	6.5	4.3	.	7.1	8.3	5.2	5.7	5.6
KENT	4.1	2.5	5.9	5.1	3.6	5.7	5.1	5.0	3.4	3.9	3.7	4.8	3.3	7.2	6.3	3.2	5.7	5.4
MARVEL	5.0	3.2	5.1	4.3	3.8	5.7	5.6	5.2	3.2	3.7	3.6	4.7	2.8	6.9	7.3	2.9	5.9	5.6
MINIMUS	4.5	2.3	6.9	3.4	5.5	5.5	7.0	5.7	5.2	6.1	4.7	4.6	5.7	6.9	6.3	5.4	5.8	5.1
MNHD-14	5.8	2.3	7.1	3.4	5.6	7.3	6.6	5.9	5.7	6.2	5.8	5.0	.	7.5	7.8	5.3	5.6	5.0
MOMENTUM (PPG-FRC 114)	6.2	4.0	6.3	5.9	5.1	5.9	6.5	6.4	5.1	5.6	6.2	6.4	5.9	6.5	7.9	4.3	5.7	5.7
NAVIGATOR II	4.1	2.8	4.8	4.3	3.9	5.7	5.8	5.1	2.8	3.8	4.0	4.9	2.6	6.9	8.0	2.3	5.4	5.3
PST-4BEN	4.7	2.7	6.1	5.1	4.3	5.9	5.7	5.0	3.4	4.1	3.8	5.1	5.4	7.3	8.2	3.6	5.9	5.6
PST-4BND	2.8	1.6	5.7	2.8	4.7	6.2	5.9	5.3	4.1	5.5	4.8	5.4	.	7.1	4.1	4.7	5.9	5.3
PST-4DR4	4.2	2.3	6.8	5.6	3.9	6.1	5.5	5.1	3.5	3.8	4.1	4.9	3.3	7.1	7.2	3.0	5.9	5.5
PST-4ED4	4.1	2.3	5.8	4.3	4.1	5.8	6.3	6.1	2.9	3.5	2.9	5.3	3.3	6.4	7.5	2.9	5.5	5.4
PST-4RUE	3.9	2.5	6.4	4.7	4.7	5.8	6.0	5.5	2.7	3.9	2.4	5.2	4.6	7.1	7.3	2.9	5.6	5.6
QUATRO	5.1	3.7	5.2	3.9	3.6	5.3	6.5	6.1	3.8	3.7	4.9	5.0	3.0	7.3	7.7	4.1	5.3	4.9
RAD-FC44	5.0	2.4	6.5	4.6	4.4	6.1	6.5	5.7	5.2	4.7	6.2	6.0	4.2	6.8	6.0	3.7	5.6	5.1
RAD-FR33R	5.3	2.9	6.4	4.4	4.3	5.6	5.6	5.1	3.5	4.1	3.2	5.1	3.0	7.2	8.1	2.9	5.9	5.4
RAD-FR47	4.8	2.4	6.1	5.4	3.6	5.7	5.4	5.0	3.6	4.1	3.7	4.4	2.2	7.2	7.1	2.3	5.8	5.5
RADAR	6.9	5.3	7.7	4.8	5.5	6.1	6.3	5.9	5.6	5.7	6.8	6.9	4.1	6.7	8.4	4.5	5.8	5.7
RESOLUTE (7H7)	4.2	1.7	3.3	3.0	6.7	6.1	7.2	6.5	6.7	7.0	6.3	4.7	2.3	7.7	4.0	6.1	6.0	5.6
SANDRINE (BAR 6FR 126)	4.1	1.6	6.6	4.9	4.2	6.1	6.7	6.0	5.8	4.2	6.6	5.4	2.8	7.2	.	4.0	5.6	5.2
SEABREEZE GT	3.6	1.9	5.7	4.9	3.8	6.3	5.9	5.5	3.8	3.7	5.0	4.7	.	6.6	4.9	4.2	5.6	5.1
SEAMIST (PPG-FRT 101)	5.8	3.4	6.8	6.3	4.0	6.7	6.9	6.1	5.5	5.1	6.8	5.9	5.0	6.4	8.4	4.8	5.9	5.5
SWORD	4.1	2.3	6.9	3.4	5.7	6.1	6.6	5.8	4.8	5.7	5.1	5.1	.	6.7	5.4	4.8	5.8	5.3
LSD VALUE	1.2	1.2	1.2	1.6	0.8	1.0	0.7	0.7	1.0	0.7	1.1	0.9	2.2	0.2	2.0	1.3	0.4	0.6
C.V. (%)	15.4	27.9	11.9	19.5	10.0	10.1	7.4	8.2	13.5	8.8	13.7	10.6	28.2	1.9	16.5	19.4	4.7	6.3

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.

2018 NATIONAL TALL FESCUE TEST

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
California	Fresno	CA7
Connecticut	Storrs	CT1
Delaware	Newark	DE1
Georgia	Griffin	GA1
Iowa	Ames	IA1
Indiana	West Lafayette	IN1
Kentucky	Lexington	KY1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
Mississippi	Mississippi State	MS1
Nebraska	Mead	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
North Carolina	Raleigh	NC1
Oklahoma	Stillwater	OK1
Oregon	Corvallis	OR1
Pennsylvania	Kennett Square	PA2
Tennessee	Knoxville	TN1
Utah	Logan	UT1
Utah	Logan (Drought)	UT2
Virginia	Blacksburg	VA1

2017 NATIONAL KENTUCKY BLUEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Arkansas	Fayetteville	AR1
Connecticut	Storrs	CT1
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kentucky	Lexington	KY1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Nebraska	Mead	NE1
New Jersey	N. Brunswick	NJ1
New Jersey	Adelphia	NJ2
North Carolina	Raleigh	NC1
North Dakota	Fargo	ND1
Oklahoma	Stillwater	OK1
Tennessee	Knoxville	TN1
Utah	Logan	UT1
Virginia	Blacksburg	VA1

2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
California	Fresno	CA7
Connecticut	Storrs	CT1
Illinois	Urbana	IL1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
Oregon	Corvallis	OR1
Oregon	Corvallis (Traffic)	OR2
Utah	Logan	UT1
Utah	Logan (Drought)	UT2
Virginia	Blacksburg	VA1
Wisconsin	Madison (Traffic)	WI1

2018 NATIONAL LOW INPUT WARM-SEASON TEST
LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
California	Fresno	CA7
Florida	Jay	FL3
Florida	Citra	FL4
Mississippi	Mississippi State	MS1
North Carolina	Raleigh	NC1
New Mexxico	Las Cruces	NM1
Texas	College Station	TX2
Utah	Logan	UT1

2016 NATIONAL ST. AUGUSTINEGRASS TEST
LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Alabama	Auburn	AL1
Florida	Jay	FL3
Florida	Fort Lauderdale	FL5
Florida	Fort Lauderdale (Low Fertilizer)	FL6
Mississippi	Mississippi State	MS1
North Carolina	Raleigh	NC1
Texas	Dallas	TX1
Texas	College Station (Drought)	TX2

2016 NATIONAL SEASHORE PASPALUM TEST

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Alabama	Auburn	AL1
Arkansas	Fayetteville	AR1
Florida	Jay	FL3
Mississippi	Mississippi State	MS1
Oklahoma	Stillwater	OK1

2015 NATIONAL LOW INPUT COOL-SEASON TEST
 LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Connecticut	Storrs	CT1
Connecticut	Storrs (Ancillary)	CT2
Indiana	West Lafayette (Low Input)	IN1
Indiana	West Lafayette (Medium Input)	IN2
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Minnesota	St. Paul (Fairway)	MN1
Missouri	Columbia	MO1
Missouri	Columbia (Ancillary)	MO2
Nebraska	Mead	NE1
North Carolina	Raleigh	NC1
Oregon	Corvallis	OR1
Pennsylvania	Kennett Square	PA2
Utah	Logan (Drought)	UT1
Virginia	Blacksburg	VA1

2014 NATIONAL BENTGRASS TEST
(Fairway/Tee)

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Illinois	Urbana	IL1
Indiana	West Lafayette (Reduced Irrigation)	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
New Jersey	North Brunswick	NJ1
North Dakota	Fargo	ND1
Utah	Logan	UT1

2014 NATIONAL BENTGRASS TEST
(Greens)

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Georgia	Athens	GA3
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
New Jersey	North Brunswick	NJ1
North Carolina	Raleigh	NC1
Oklahoma	Stillwater	OK1
Utah	Logan	UT1
Utah	Logan (Drought)	UT2

2014 NATIONAL FINELEAF FESCUE TEST
 LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Connecticut	Storrs	CT1
Connecticut	Storrs (Traffic)	CT2
Illinois	Carbondale (Shade)	IL2
Indiana	West Lafayette	IN1
Maryland	College Park	MD1
Michigan	East Lansing (Lawn)	MI1
Michigan	East Lansing (Fairway)	MI2
Michigan	East Lansing (Fairway/Traffic)	MI3
Minnesota	St. Paul (Fairway)	MN1
Minnesota	St. Paul (Lawn)	MN2
Minnesota	St. Paul (Fairway/Traffic)	MN3
Missouri	Columbia	MO1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
North Carolina	Raleigh	NC1
North Dakota	Fargo	ND1
Oregon	Corvallis	OR1
Oregon	Corvallis (Traffic)	OR2