

TABLE 1.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT FRESNO, CA 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
PST-2FOXY	7.0	7.3	7.3	6.7	6.0	5.0	4.3	4.3	5.0	6.3	7.0	7.3	7.3	6.2
BAR LP 6164	4.7	6.7	6.7	7.0	6.3	5.3	4.3	3.7	5.3	6.3	7.0	7.3	6.7	6.1
MRSL-PR16	7.7	7.0	7.7	6.3	5.7	5.3	4.7	4.0	4.3	6.0	7.0	7.7	7.3	6.1
NP-2	7.7	7.7	8.0	7.7	5.0	4.7	4.3	4.3	4.3	5.7	6.3	7.7	8.0	6.1
PPG-PR 367	6.7	7.0	6.7	6.7	5.7	5.3	4.3	4.0	5.0	6.3	7.3	7.3	7.0	6.1
023	5.3	6.7	6.3	6.7	6.0	5.7	5.0	4.7	5.0	6.0	6.7	7.0	6.7	6.0
BAR LP 6117	4.7	6.7	6.3	6.7	6.7	5.3	4.7	4.7	5.3	6.3	6.7	6.7	6.3	6.0
02BS2	6.3	6.7	7.3	7.3	6.7	5.3	4.3	4.3	4.0	5.0	5.7	7.0	7.3	5.9
APR3060	5.7	6.7	6.7	7.0	6.0	5.0	4.0	4.0	4.7	6.0	7.0	7.3	6.7	5.9
ASP0116EXT	7.7	6.7	7.7	6.7	6.0	5.0	4.0	3.7	4.7	5.7	6.3	7.0	7.0	5.9
BAR LP 6131	4.7	6.3	6.3	6.7	6.0	5.7	5.0	4.7	4.7	6.0	6.7	6.7	6.3	5.9
ALLSTAR FORE (DLFPS-236/3541)	6.0	7.0	6.7	6.7	6.0	5.0	4.3	4.3	4.7	5.7	6.3	7.0	7.0	5.9
GRAND SLAM GLD	6.3	6.7	6.3	6.0	6.0	5.3	4.7	4.7	4.7	6.0	6.3	6.7	7.0	5.9
FURLONG (LTP-FCB)	7.0	7.0	7.3	6.7	6.0	5.0	4.0	4.3	4.0	5.3	6.0	6.7	6.7	5.8
JR-197	6.3	6.7	7.0	6.0	6.0	5.3	4.3	4.3	4.0	5.3	6.0	7.0	7.0	5.8
PARAGON 2 GLR (FP2)	7.7	6.7	7.3	6.3	5.7	5.3	4.0	3.7	4.3	5.7	6.3	7.0	7.0	5.8
PPG-PR 421	6.3	6.3	6.3	6.3	6.3	4.7	4.3	4.3	4.3	5.7	7.0	7.3	6.7	5.8
PR-5-16	6.7	6.7	6.7	6.0	6.0	5.3	4.3	3.7	4.7	6.0	6.3	6.7	6.7	5.8
PST-2BDT	6.3	6.3	7.7	6.7	5.7	4.3	4.0	3.3	5.0	6.3	7.0	6.7	6.3	5.8
PST-2GTD	5.7	7.0	6.7	6.7	6.0	5.3	4.3	4.3	4.3	5.3	6.0	7.0	7.0	5.8
ASP0218 (A-6D)	6.7	6.7	6.7	6.3	6.0	5.3	4.0	3.3	4.0	5.7	6.7	6.7	6.7	5.7
SR 4700 (DLFPS-236/3543)	6.7	6.0	6.7	5.7	5.3	5.3	4.3	4.3	4.0	5.7	7.0	7.0	6.7	5.7
DLFPS-236/3544	6.7	6.3	7.0	6.3	5.0	4.7	4.3	4.0	4.7	5.7	6.3	7.0	7.0	5.7
DLFPS-236/3546	7.0	6.7	7.0	6.0	4.3	4.7	3.7	4.0	5.0	6.0	6.3	7.3	7.3	5.7
NP-3	6.7	5.7	6.3	6.0	5.7	5.7	4.7	4.7	5.0	5.7	6.0	6.3	6.3	5.7
SHIELD (02BS4)	5.3	6.0	6.0	6.0	6.3	5.3	4.7	4.3	5.0	5.7	6.0	6.3	6.3	5.7
APR2616	6.0	6.7	6.7	6.3	5.7	5.3	4.0	3.3	4.0	5.0	5.7	7.0	7.0	5.6
BAR LP 6158	4.3	6.7	6.3	7.0	5.7	5.0	4.0	3.3	4.3	5.7	6.3	6.7	6.7	5.6
BAR LP 6159	5.0	6.3	6.3	6.3	6.0	5.3	4.3	4.0	4.7	5.3	5.3	6.7	6.7	5.6
CS-6	7.0	6.0	7.3	7.0	5.7	5.0	4.0	3.0	4.7	5.3	5.7	6.3	6.7	5.6
DLFPS-236/3538	5.0	6.0	5.7	5.7	6.0	5.7	4.7	4.7	4.0	5.3	6.3	6.3	6.3	5.6
DLFPS-236/3550	6.7	6.3	6.7	5.7	5.7	5.0	4.7	4.7	4.3	5.3	6.0	6.3	6.3	5.6
DLFPS-236/3552	6.0	6.0	6.7	6.0	5.0	5.0	4.3	4.0	4.3	5.7	6.7	6.7	6.3	5.6
DLFPS-236/3556	5.7	6.7	6.3	6.3	6.0	4.7	3.7	3.7	4.7	5.7	6.0	7.0	7.0	5.6
JR-123	7.0	6.7	7.0	6.0	5.0	5.0	4.3	4.0	4.7	5.3	6.0	6.7	6.7	5.6
OVERDRIVE 5G	6.7	6.3	6.7	6.0	5.3	5.0	4.0	4.0	4.7	6.0	6.3	6.7	6.7	5.6
PARADOX GLR (PPG-PR 331)	5.7	6.3	6.3	6.3	5.3	5.0	4.0	4.0	4.3	5.7	6.3	6.7	6.3	5.6
PL2	6.7	6.0	6.7	6.3	6.3	5.7	4.7	3.7	4.3	5.3	5.7	6.3	6.3	5.6
SEABISCUIT	6.0	6.3	6.3	6.3	5.3	5.0	4.0	4.0	4.7	5.7	6.3	6.3	6.3	5.6
SLUGGER 3GL (PPG-PR 343)	7.3	6.7	7.3	7.0	5.3	5.0	3.7	3.0	4.3	5.3	5.3	7.0	7.0	5.6
APR2612	7.0	6.7	7.0	6.3	5.0	5.0	4.3	4.0	4.0	5.0	5.7	6.7	6.7	5.5
DLFPS-236/3540	6.3	6.0	6.3	5.7	5.7	5.0	4.3	4.3	4.3	5.3	6.0	6.3	6.3	5.5
DLFPS-236/3553	6.0	6.0	6.3	5.7	5.7	5.0	4.3	4.3	5.0	5.7	6.0	6.3	6.0	5.5
GRAY WOLF (PST-2GAL)	6.7	6.3	7.0	6.3	6.0	4.7	3.7	3.7	4.3	5.3	6.0	6.3	6.3	5.5
PPG-PR 385	5.3	6.0	5.3	5.3	5.7	5.3	4.7	4.3	4.7	5.3	6.0	6.7	6.7	5.5
PPG-PR 422	6.3	6.3	6.7	6.0	5.7	5.3	4.0	4.0	4.3	5.3	6.0	6.0	6.0	5.5
STELLAR 4GL (PPG-PR 424)	6.0	6.3	6.7	6.0	5.0	5.0	4.3	4.0	4.3	5.3	6.0	6.3	6.3	5.5

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		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PST-2PDA	5.3	6.3	6.3	6.3	5.3	4.7	4.0	4.0	5.0	5.3	5.7	6.3	6.7	5.5
SIGNET	5.3	6.3	6.0	6.0	5.7	5.3	4.3	3.7	4.3	5.3	6.0	6.3	6.3	5.5
SLIDER LS (PPG-PR 241)	6.3	6.3	7.0	5.7	5.3	5.0	4.3	4.3	4.3	5.0	5.3	6.7	6.7	5.5
ALLSTAR III	6.0	6.3	6.7	6.3	6.0	5.0	4.0	3.7	4.0	5.0	5.7	6.3	6.3	5.4
ASP0118GL (A-4G)	6.3	6.0	6.3	5.7	5.3	5.0	4.0	4.0	4.0	5.3	6.0	6.3	6.3	5.4
BELIZE 2 (GO-142)	5.0	6.3	6.0	6.0	5.3	5.3	4.3	3.7	4.3	5.3	5.7	6.3	6.3	5.4
DLFPS-236/3545	7.0	6.0	6.7	5.7	5.3	5.3	4.3	3.7	4.3	5.3	6.0	6.3	6.3	5.4
GRAY HAWK (PST-2FIND)	6.0	6.0	6.0	5.7	5.7	5.0	4.3	3.7	4.3	5.3	6.0	6.7	6.7	5.4
GREEN SUPREME+ (AMP-R1)	6.7	5.7	6.7	6.0	5.7	5.0	3.7	3.3	4.3	5.3	6.0	6.3	6.3	5.4
MAN O WAR	6.3	6.0	6.7	6.0	5.7	4.7	4.0	3.7	4.3	5.3	6.0	6.7	6.3	5.4
PEPPER II (RAD-PR 103)	5.7	6.0	6.3	6.0	5.0	5.0	4.0	4.0	4.3	5.3	6.0	6.7	6.7	5.4
PPG-PR 372	6.0	6.0	6.0	5.3	5.3	5.0	4.0	4.0	4.3	5.3	6.3	6.3	6.3	5.4
PST-2EGAD	5.7	6.3	6.3	6.0	5.3	5.0	4.0	3.7	4.3	5.0	5.7	6.7	6.7	5.4
PST-2MAY	6.3	6.7	6.3	6.3	5.0	4.7	4.0	4.0	4.0	5.0	5.7	6.3	6.7	5.4
SR 4650	6.7	6.3	6.7	6.0	5.3	5.0	4.0	3.3	4.3	5.3	5.3	6.3	6.3	5.4
021	5.7	6.3	6.0	6.0	5.0	4.7	4.0	4.0	4.3	5.0	5.3	6.3	6.3	5.3
CPN	5.7	6.0	6.7	6.0	5.3	4.7	3.7	3.3	4.3	5.3	5.7	6.0	6.0	5.3
DERBY XTREME	7.0	6.0	7.0	6.0	5.3	5.0	3.7	3.7	4.0	5.3	5.7	6.3	6.0	5.3
EVOLVE	5.0	5.7	5.7	5.7	5.3	5.0	4.0	4.0	4.7	5.7	5.7	6.0	6.0	5.3
FIREBALL (BWH)	8.7	5.7	8.0	5.7	5.7	5.3	4.0	3.3	4.0	5.0	5.7	5.7	6.0	5.3
INTENSE	7.3	6.0	7.0	5.7	5.0	4.7	3.7	3.3	4.3	5.3	6.0	6.3	6.0	5.3
MRSI-PR15	5.7	6.0	6.3	6.3	5.3	5.0	4.0	3.7	4.0	5.0	5.7	6.0	6.0	5.3
PPG-PR 423	6.0	6.7	6.3	6.3	5.3	5.0	3.7	3.3	4.3	5.0	5.3	6.3	6.3	5.3
PR-6-15	6.7	6.3	6.7	5.7	5.3	5.0	4.0	4.0	4.3	4.7	5.0	6.0	6.7	5.3
ASP0117 (A-PR15)	7.3	6.0	7.3	5.3	4.7	4.3	3.7	3.7	4.0	5.0	5.7	6.3	6.0	5.2
BAR LP 6162	4.0	5.0	5.7	5.7	5.7	5.0	4.0	3.7	4.7	5.3	6.0	5.7	5.7	5.2
DLFPS-236/3542	6.3	6.0	6.3	5.3	5.3	5.0	3.7	3.0	4.3	5.7	6.0	6.0	6.0	5.2
DLFPS-236/3547	6.3	5.7	6.7	6.0	5.0	4.7	3.7	3.7	3.7	5.0	6.0	6.7	6.0	5.2
FIESTA CINCO (DLFPS-236/3554)	6.0	5.7	6.7	5.7	5.3	5.0	3.7	3.7	4.0	5.3	6.0	6.0	5.7	5.2
KARMA	5.3	5.7	6.0	6.0	5.3	5.0	4.3	4.3	4.0	5.0	5.3	6.0	5.7	5.2
NEXUS GT (SNX)	7.3	6.0	6.7	5.7	4.7	4.7	3.7	3.7	4.0	5.0	5.3	6.3	6.3	5.2
PPG-PR 371	6.3	5.7	6.3	6.0	5.3	4.7	4.3	4.3	4.0	4.7	5.0	6.0	6.0	5.2
PST-2A2	5.7	5.7	6.3	5.7	5.3	4.7	3.7	3.3	4.3	5.3	5.7	6.0	6.0	5.2
ALLOY (RRT)	6.3	5.3	6.3	5.0	4.7	4.7	4.0	4.0	4.7	5.3	5.7	6.0	6.0	5.1
CAYMAN (GO-143)	6.0	6.0	6.0	5.0	5.7	4.7	3.3	3.3	4.0	5.0	5.3	6.3	6.3	5.1
DLFPS-236/3548	7.0	5.7	6.7	5.3	5.0	4.7	4.0	4.0	4.0	4.7	5.3	6.0	6.0	5.1
FASTBALL 3GL (PPG-PR 329)	7.0	6.7	6.7	6.0	5.0	4.3	3.3	3.0	3.7	4.7	5.0	6.0	6.3	5.1
GO-141	5.7	5.7	6.3	5.7	5.7	5.3	4.3	3.7	3.7	4.7	5.3	5.7	5.7	5.1
PPG-PR 370	6.3	6.0	6.0	5.7	5.7	5.0	4.0	3.7	3.7	4.7	5.3	5.7	6.0	5.1
SUPERSTAR GL (PPG-PR 420)	5.7	5.7	6.0	5.7	5.0	5.0	4.0	3.7	4.0	5.0	5.7	6.0	6.0	5.1
SILVER SPORT (PST-2CRP)	6.0	5.3	6.7	5.7	4.7	4.7	4.0	3.7	4.0	5.0	5.7	6.0	5.7	5.1
SPIKE GLS (UF3)	6.7	6.0	6.3	5.3	5.0	5.0	4.0	3.7	3.7	4.7	5.3	6.0	6.0	5.1
BAR LP 6233	3.7	5.0	5.3	5.7	5.0	5.0	4.0	3.7	4.7	5.3	5.7	5.7	5.3	5.0
PHARAOH	6.3	5.3	6.3	5.0	5.0	5.0	4.3	3.7	4.0	5.0	5.3	5.7	5.7	5.0
APPLE 3GL (PPG-PR 339)	6.3	5.3	6.3	5.3	5.3	5.0	3.7	3.3	4.0	4.7	5.0	5.7	5.7	4.9
BAR LP 6165	2.3	5.3	4.7	5.7	4.7	4.7	3.7	3.3	3.7	5.3	6.0	6.0	5.7	4.9
DLFPS-238/3014	5.7	4.7	5.7	5.3	5.3	5.0	4.0	3.7	4.0	4.7	5.3	5.3	5.3	4.9

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		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
HATRICK (BSP-17)	8.3	5.3	7.3	5.0	4.7	4.3	3.7	3.3	4.3	5.0	5.0	5.7	5.7	4.9
HOMERUN LS (PPG-PR 419)	6.7	5.3	6.7	4.7	4.7	4.7	4.0	3.3	4.0	5.0	5.3	5.3	5.3	4.9
PPG-PR 360	6.7	5.7	6.7	5.0	5.0	4.7	3.7	3.3	4.0	4.7	4.7	5.7	5.7	4.9
SAGUARO	5.3	5.7	5.3	5.0	4.7	4.7	4.0	3.3	4.3	5.0	5.0	5.7	5.7	4.9
TEE-ME-UP (BSP-25)	6.0	5.3	6.0	5.0	4.7	4.7	3.7	3.3	3.7	4.7	5.7	6.0	6.0	4.9
RAD-PR 112	7.0	5.7	6.3	5.3	5.0	4.3	3.3	3.3	3.7	4.3	5.0	5.7	6.0	4.8
XCELERATOR	6.3	5.3	6.3	5.0	4.7	4.3	3.3	3.3	4.0	4.7	5.3	5.3	5.3	4.8
02BS1	6.7	5.3	6.3	4.7	4.3	4.3	3.7	3.7	3.7	4.7	5.3	5.3	5.3	4.7
BRIGHTSTAR SLT	5.0	5.3	5.7	5.3	5.0	4.7	3.3	2.7	3.3	4.3	5.0	5.7	5.7	4.7
JR-888	4.0	5.3	5.7	6.0	4.7	4.7	3.7	3.0	3.3	4.7	5.0	5.3	5.3	4.7
MENSA	4.7	5.3	5.3	5.0	4.0	3.7	3.0	3.0	4.0	5.3	5.7	6.0	5.7	4.7
UMPQUA	5.7	5.0	5.7	5.0	5.0	4.7	3.7	3.0	3.3	4.3	5.0	5.0	5.0	4.6
LPB-SD-103	5.3	5.3	5.3	5.0	4.0	4.0	3.3	3.3	3.7	4.7	5.0	5.3	5.3	4.5
LPB-SD-105	5.0	5.7	5.0	4.0	3.3	3.7	3.3	3.0	3.7	4.7	5.0	5.7	5.7	4.4
LPB-SD-102	4.0	4.7	4.7	4.3	3.7	3.7	3.0	3.3	3.7	4.7	4.7	5.0	4.7	4.2
LPB-SD-104	5.3	5.0	5.0	4.0	3.7	3.7	3.3	3.3	3.3	4.3	5.0	5.0	5.0	4.2
JR-747	5.3	4.7	5.3	4.3	3.7	4.0	3.3	3.3	3.3	4.0	4.3	4.7	4.7	4.1
LPB-SD-101	4.3	4.3	4.3	4.0	3.7	3.7	3.0	3.0	3.7	4.7	4.7	4.7	4.7	4.0
LINN	2.7	4.0	3.7	4.0	4.0	4.0	3.0	2.7	3.0	4.3	5.0	5.0	4.0	3.9
SAVANT	3.7	4.7	4.0	4.0	3.7	3.7	3.0	3.0	3.3	4.0	4.0	4.7	4.7	3.9
LSD VALUE	1.4	2.7	1.8	2.6	1.4	1.1	1.4	1.6	1.6	1.6	2.5	2.1	2.1	1.2
C.V. (%)	14.3	15.9	14.2	17.6	14.1	11.4	14.8	17.6	15.0	13.1	15.8	14.0	14.2	10.9

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

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

TABLE 2.

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NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS						MEAN
			MAY	JUN	JUL	AUG	SEP	OCT	
SR 4700 (DLFPS-236/3543)	7.3	6.3	7.7	6.7	8.0	7.3	7.7	7.7	7.5
APPLE 3GL (PPG-PR 339)	7.3	7.0	8.0	7.3	7.3	6.7	7.7	7.3	7.4
HOMERUN LS (PPG-PR 419)	6.7	6.7	8.0	7.0	7.3	7.7	7.0	7.3	7.4
PHARAOH	7.7	7.7	7.7	6.7	8.0	7.0	7.3	7.7	7.4
STELLAR 4GL (PPG-PR 424)	6.3	7.3	7.7	6.3	8.0	7.0	7.7	7.7	7.4
ALLOY (RRT)	7.3	6.7	7.3	6.7	7.3	7.0	8.0	7.7	7.3
DLFPS-236/3546	7.0	7.0	7.3	6.7	7.7	7.3	7.7	7.0	7.3
FIESTA CINCO (DLFPS-236/3554)	7.0	6.0	7.7	7.3	7.3	6.7	7.7	7.0	7.3
DLFPS-236/3547	6.0	6.7	7.7	7.0	6.7	7.3	7.0	7.7	7.2
DLFPS-236/3552	7.7	6.3	8.0	6.7	7.7	7.3	7.3	6.3	7.2
NP-3	7.3	7.7	6.3	6.7	7.7	7.3	8.0	7.0	7.2
PPG-PR 421	8.0	7.0	7.3	7.0	7.3	7.3	7.3	7.0	7.2
DLFPS-236/3550	7.0	6.7	8.0	6.7	7.7	6.7	7.0	6.7	7.1
JR-197	7.0	6.7	7.7	7.0	7.0	6.7	6.7	7.7	7.1
PPG-PR 370	7.3	6.3	7.7	6.0	7.0	7.3	7.7	7.0	7.1
SUPERSTAR GL (PPG-PR 420)	7.3	6.3	7.3	6.7	7.0	7.3	7.0	7.0	7.1
PPG-PR 423	7.3	7.3	7.7	7.0	6.0	7.7	7.3	7.0	7.1
PST-2BDT	7.7	7.3	8.0	7.3	6.3	6.7	7.3	7.0	7.1
PST-2FOXY	7.0	7.0	8.3	6.3	7.0	7.0	6.3	7.7	7.1
SLUGGER 3GL (PPG-PR 343)	7.0	7.3	7.7	6.7	6.7	6.3	7.7	7.3	7.1
DLFPS-236/3545	7.0	7.3	7.7	6.3	7.3	6.3	7.0	7.3	7.0
PPG-PR 422	7.3	6.7	7.7	6.7	6.7	6.3	7.0	7.7	7.0
CPN	6.7	6.0	7.0	6.3	7.0	6.7	7.3	7.3	6.9
DLFPS-236/3538	7.0	6.0	7.0	6.7	7.0	6.7	7.7	6.7	6.9
DLFPS-236/3542	7.3	7.0	8.0	6.7	6.3	5.7	7.7	7.0	6.9
DLFPS-236/3548	7.3	6.3	7.3	6.3	7.3	7.0	7.0	6.7	6.9
GRAND SLAM GLD	6.7	6.7	7.0	7.0	6.7	6.0	7.3	7.7	6.9
PL2	7.7	6.7	7.7	5.7	6.3	6.7	7.7	7.3	6.9
PPG-PR 360	7.7	7.0	7.7	6.7	7.3	6.7	6.3	7.0	6.9
PPG-PR 371	6.7	6.7	8.0	7.0	6.0	7.0	6.7	6.7	6.9
PST-2GTD	7.7	6.7	7.3	7.3	6.7	7.0	6.7	6.7	6.9
SHIELD (02BS4)	7.3	6.7	7.3	6.7	6.3	6.7	7.3	7.0	6.9
ALLSTAR FORE (DLFPS-236/3541)	7.7	6.0	7.3	7.0	6.3	6.3	6.7	7.0	6.8
DLFPS-236/3544	7.0	7.0	7.0	5.7	7.3	6.7	7.3	7.0	6.8
OVERDRIVE 5G	7.0	6.3	7.7	6.0	6.3	6.0	8.0	6.7	6.8
PST-2A2	6.3	6.0	7.3	6.3	6.7	6.3	7.3	7.0	6.8
SIGNET	6.0	7.3	7.7	6.3	7.0	6.3	7.3	6.3	6.8
SLIDER LS (PPG-PR 241)	7.7	6.7	7.7	6.7	6.7	6.0	6.7	7.0	6.8
02BS2	6.0	7.3	6.7	6.7	6.3	6.7	7.0	7.0	6.7
APR2616	7.3	6.0	7.3	7.3	6.0	6.3	7.7	5.3	6.7
ASP0118GL (A-4G)	8.0	6.0	8.0	6.7	6.7	5.7	6.7	6.3	6.7
FURLONG (LTP-FCB)	7.0	6.3	7.3	7.3	6.0	6.0	6.3	7.0	6.7
GRAY WOLF (PST-2GAL)	7.0	7.0	7.7	6.7	6.0	5.7	7.3	6.7	6.7
PARADOX GLR (PPG-PR 331)	6.7	7.0	6.3	6.3	6.7	6.7	7.0	7.3	6.7
PPG-PR 367	7.3	7.7	7.0	6.7	6.0	7.0	6.7	7.0	6.7
PPG-PR 372	6.7	7.3	7.3	6.7	6.7	5.7	6.3	7.3	6.7
PR-6-15	6.7	6.7	7.3	6.3	6.0	6.7	6.7	7.0	6.7

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS						MEAN
			MAY	JUN	JUL	AUG	SEP	OCT	
SEABISCUIT	6.0	7.7	7.3	6.3	6.3	6.0	7.7	6.7	6.7
UMPQUA	7.0	6.3	6.7	6.0	6.3	6.0	7.7	7.7	6.7
XCELERATOR	7.3	7.3	7.7	6.0	6.7	6.0	7.0	6.7	6.7
DLFPS-236/3540	7.0	7.7	6.7	6.7	7.0	5.7	7.0	6.7	6.6
JR-123	6.7	6.7	7.3	7.0	6.7	5.7	6.3	6.7	6.6
MAN O WAR	6.7	6.0	7.3	6.3	5.0	6.3	7.0	7.3	6.6
PST-2MAY	6.7	7.0	7.3	5.7	6.7	6.0	7.3	6.7	6.6
SPIKE GLS (UF3)	6.3	6.0	8.0	6.3	6.0	5.7	6.7	6.7	6.6
FASTBALL 3GL (PPG-PR 329)	7.0	7.0	7.3	6.7	6.0	6.0	6.3	6.7	6.5
INTENSE	7.3	7.0	7.0	7.0	5.7	6.3	6.3	6.7	6.5
PR-5-16	6.7	6.7	7.3	5.7	6.7	6.0	6.7	6.7	6.5
021	7.0	6.3	7.3	6.7	6.0	6.0	6.3	6.3	6.4
023	6.7	7.0	6.7	6.0	6.7	6.0	7.0	6.0	6.4
ALLSTAR III	6.7	7.3	7.7	6.3	6.3	5.3	6.7	6.3	6.4
BELIZE 2 (GO-142)	8.0	6.0	8.0	5.7	5.7	6.0	6.7	6.3	6.4
DERBY XTREME	7.7	6.0	8.0	6.3	5.0	5.7	6.3	7.3	6.4
DLFPS-236/3556	7.0	6.7	6.3	6.7	6.3	5.3	7.0	6.7	6.4
KARMA	6.7	6.0	7.3	6.7	6.3	6.0	6.3	5.7	6.4
LPB-SD-102	6.3	5.0	7.0	5.3	6.7	5.7	7.0	6.7	6.4
PPG-PR 385	6.7	5.7	7.3	6.3	6.3	6.3	6.7	5.7	6.4
PST-2EGAD	7.3	6.7	7.3	6.7	5.7	6.0	6.3	6.7	6.4
SR 4650	6.0	6.0	7.3	5.7	6.0	6.7	6.7	6.3	6.4
02BS1	7.0	7.0	7.3	5.7	6.3	5.0	6.7	6.7	6.3
ASP0218 (A-6D)	8.0	6.7	7.0	6.0	6.3	5.7	6.3	6.7	6.3
BAR LP 6164	7.0	7.3	7.3	5.3	6.0	6.3	6.7	6.0	6.3
EVOLVE	6.7	6.7	7.7	6.0	6.0	5.7	6.3	6.0	6.3
GO-141	7.7	6.7	7.7	5.7	5.7	6.0	7.0	6.0	6.3
LPB-SD-101	6.3	5.3	7.0	5.7	6.7	5.0	7.3	6.0	6.3
NP-2	7.0	7.0	7.3	7.3	6.3	5.0	5.3	6.7	6.3
BAR LP 6117	6.7	5.7	7.3	6.0	5.3	6.3	6.3	5.7	6.2
MENSA	7.0	5.3	6.7	6.0	6.0	4.7	7.3	6.3	6.2
PARAGON 2 GLR (FP2)	7.0	7.0	7.0	5.3	6.0	5.7	6.3	6.7	6.2
APR3060	7.3	6.7	7.3	7.0	5.7	5.3	5.7	5.3	6.1
ASP0117 (A-PR15)	7.3	7.0	7.0	5.7	5.7	5.7	6.7	6.0	6.1
DLFPS-236/3553	6.7	5.7	6.7	5.7	6.0	5.7	6.0	6.7	6.1
GRAY HAWK (PST-2FIND)	6.3	6.3	7.0	5.3	5.7	5.7	6.7	6.3	6.1
PST-2PDA	6.3	7.3	7.0	6.0	5.0	5.7	6.3	6.3	6.1
SILVER SPORT (PST-2CRP)	7.7	6.3	7.7	6.7	4.7	5.0	6.3	6.3	6.1
BAR LP 6233	6.3	6.3	6.0	6.0	6.3	6.0	6.0	5.7	6.0
CAYMAN (GO-143)	7.7	6.0	7.3	6.3	5.3	5.0	6.0	6.0	6.0
GREEN SUPREME+ (AMP-R1)	8.0	7.3	7.3	5.3	6.0	6.3	5.0	6.0	6.0
PEPPER II (RAD-PR 103)	8.7	6.7	7.3	6.7	5.0	5.3	5.7	6.0	6.0
SAVANT	6.3	5.3	7.3	5.7	6.3	4.7	6.0	6.0	6.0
APR2612	8.0	6.0	7.3	5.7	5.3	5.3	6.0	6.0	5.9
BAR LP 6159	7.0	6.0	7.3	6.0	5.7	5.0	6.3	5.3	5.9
CS-6	7.7	6.0	6.7	5.7	5.0	5.7	6.3	6.3	5.9
HATRICK (BSP-17)	9.0	6.3	7.3	5.0	6.0	6.0	5.7	5.7	5.9

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	MAY	JUN	QUALITY RATINGS			SEP	OCT	MEAN
					JUL	AUG				
JR-747	7.0	5.0	6.7	6.0	6.0	4.7	6.3	5.7	5.9	
LPB-SD-103	7.0	6.7	7.0	5.3	5.7	4.3	6.7	6.3	5.9	
LPB-SD-104	7.7	5.0	7.0	5.3	6.3	4.7	6.3	5.7	5.9	
MRS�-PR15	8.0	6.3	7.3	6.0	5.3	5.0	6.0	6.0	5.9	
SAGUARO	6.3	6.3	7.3	6.0	5.0	5.0	6.0	6.3	5.9	
ASP0116EXT	9.0	6.0	7.0	6.0	5.0	5.0	6.0	6.0	5.8	
BAR LP 6131	6.0	5.7	7.7	5.3	4.7	6.0	6.0	5.3	5.8	
BAR LP 6158	6.3	6.7	6.7	6.0	5.0	5.0	6.3	5.7	5.8	
DLFPS-238/3014	6.0	5.7	7.3	6.7	5.7	5.0	5.3	4.7	5.8	
FIREBALL (BWH)	9.0	6.7	7.7	5.7	4.7	5.0	5.3	6.3	5.8	
BAR LP 6162	8.0	4.7	7.3	6.3	5.7	4.7	5.0	5.3	5.7	
JR-888	6.0	6.3	7.3	6.7	5.3	3.7	5.3	6.0	5.7	
TEE-ME-UP (BSP-25)	9.0	5.3	7.3	6.0	5.3	5.0	5.3	5.0	5.7	
BRIGHTSTAR SLT	5.7	6.0	7.3	5.3	5.0	5.3	5.7	5.0	5.6	
RAD-PR 112	8.3	5.3	7.0	5.3	4.7	5.0	5.3	6.3	5.6	
LPB-SD-105	6.3	4.7	6.0	5.3	6.3	4.3	5.3	5.7	5.5	
MRS�-PR16	7.0	6.3	6.7	4.7	5.0	5.0	5.3	6.3	5.5	
NEXUS GT (SNX)	8.0	6.0	6.3	5.0	4.7	5.0	6.3	5.7	5.5	
BAR LP 6165	5.0	6.0	6.0	5.0	5.3	4.7	5.0	5.0	5.2	
LINN	2.0	5.3	4.0	4.0	3.0	3.3	4.0	4.0	3.7	
LSD VALUE	1.3	1.4	1.4	1.4	2.0	1.5	1.4	1.3	0.8	
C.V. (%)	10.8	11.7	9.3	11.7	16.3	14.5	12.2	11.1	7.2	

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 3.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3538	7.7	8.0	8.0	7.7	8.0	8.0	7.0	7.0	7.7
SR 4700 (DLFPS-236/3543)	8.0	7.7	7.7	8.3	7.3	8.0	7.7	7.0	7.7
DLFPS-236/3547	8.0	8.0	7.7	7.7	7.3	8.0	8.0	7.3	7.7
UMPQUA	7.3	7.7	7.3	7.3	7.7	7.3	8.7	8.0	7.7
021	6.3	7.7	7.0	7.7	7.3	7.0	8.3	8.0	7.6
BAR LP 6165	6.7	6.7	7.3	8.0	8.7	8.3	7.3	6.7	7.6
FIESTA CINCO (DLFPS-236/3554)	7.3	8.0	7.7	8.0	6.7	8.0	7.7	7.3	7.6
PR-6-15	7.3	8.0	8.0	8.0	7.0	7.0	7.7	7.7	7.6
FURLONG (LTP-FCB)	7.7	7.0	7.7	8.0	7.0	6.7	8.3	7.7	7.5
JR-197	7.0	8.3	6.3	7.0	7.3	7.3	8.3	7.7	7.5
DLFPS-236/3546	7.0	7.7	7.3	7.7	7.0	6.7	7.7	7.7	7.4
MAN O WAR	7.3	8.3	7.3	7.3	6.0	7.0	8.3	7.7	7.4
PPG-PR 421	7.0	7.0	8.0	7.7	6.3	7.7	8.0	7.3	7.4
STELLAR 4GL (PPG-PR 424)	7.3	8.3	6.7	6.3	7.3	7.0	8.3	8.0	7.4
DLFPS-236/3544	7.3	8.0	7.0	6.7	7.3	6.7	8.0	7.3	7.3
SUPERSTAR GL (PPG-PR 420)	7.0	7.7	7.7	7.7	6.3	6.3	7.7	7.7	7.3
PPG-PR 422	7.0	7.7	7.3	6.3	7.3	6.3	8.0	8.0	7.3
PST-2GTD	7.7	7.7	6.7	7.0	7.7	6.3	7.7	8.0	7.3
RAD-PR 112	7.7	8.0	7.7	8.3	6.3	6.7	6.3	8.0	7.3
SEABISCUIT	7.3	7.7	7.0	7.7	6.7	6.7	8.7	7.0	7.3
SILVER SPORT (PST-2CRP)	8.0	7.3	7.7	7.0	7.0	6.3	7.7	8.3	7.3
ALLOY (RRT)	7.0	7.3	7.0	6.7	7.3	7.7	7.7	7.0	7.2
BAR LP 6164	7.3	8.0	7.7	7.3	7.0	6.7	7.0	6.7	7.2
BAR LP 6233	7.0	7.7	7.3	7.0	7.7	7.0	7.3	6.7	7.2
DLFPS-236/3548	7.0	7.7	8.0	7.3	7.0	6.3	7.0	7.3	7.2
NP-2	7.0	8.0	7.3	7.3	7.0	6.7	7.0	7.3	7.2
PHARAOH	7.3	7.7	7.0	7.7	6.3	6.7	7.7	7.7	7.2
PL2	7.7	7.3	6.3	7.0	6.7	7.7	8.0	7.3	7.2
PPG-PR 371	6.7	6.3	7.7	8.3	6.3	6.7	7.0	8.0	7.2
PPG-PR 423	6.7	7.7	7.3	7.7	5.7	6.7	7.7	8.0	7.2
PR-5-16	7.3	6.7	7.7	8.0	6.3	7.3	7.3	7.3	7.2
SLUGGER 3GL (PPG-PR 343)	7.3	6.7	7.7	6.3	7.0	7.3	7.3	8.0	7.2
DLFPS-236/3542	7.0	7.7	7.0	7.3	6.0	6.7	7.7	7.7	7.1
GRAND SLAM GLD	7.0	6.7	8.3	7.7	7.0	6.0	7.0	7.3	7.1
HATRICK (BSP-17)	7.0	7.7	8.3	7.0	6.7	6.7	6.7	7.0	7.1
OVERDRIVE 5G	7.0	7.7	7.7	7.3	6.3	6.0	7.7	7.0	7.1
PARAGON 2 GLR (FP2)	6.3	8.0	7.7	7.3	6.0	6.3	7.3	7.3	7.1
PPG-PR 360	6.3	7.3	7.3	7.0	6.3	6.7	7.7	7.7	7.1
PPG-PR 370	6.7	7.0	7.7	7.3	6.7	7.7	7.3	6.3	7.1
PPG-PR 372	6.3	7.3	8.3	7.0	6.0	6.7	7.3	7.3	7.1
PPG-PR 385	6.7	7.7	8.3	6.3	6.7	7.0	6.7	7.0	7.1
PST-2MAY	7.3	7.7	7.7	7.3	6.7	6.3	7.3	7.0	7.1
SHIELD (02BS4)	7.3	7.3	7.3	6.3	7.0	7.0	7.3	7.3	7.1
XCELERATOR	7.3	7.3	7.0	7.0	7.0	7.3	7.0	7.0	7.1
023	6.7	7.7	8.0	6.7	6.3	6.0	7.0	7.0	7.0
02BS1	6.3	7.7	7.3	7.3	6.0	5.3	7.7	7.3	7.0
ASP0116EXT	6.3	7.0	8.3	7.7	6.0	5.3	6.7	7.7	7.0

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
ASP0117 (A-PR15)	6.0	7.7	7.3	7.3	6.7	6.0	6.7	7.3	7.0
BAR LP 6158	7.0	7.0	7.0	6.7	6.7	7.3	7.3	7.0	7.0
CPN	6.3	7.3	6.3	7.3	7.0	6.7	7.3	7.0	7.0
DLFPS-236/3545	6.7	7.3	6.7	6.7	7.3	6.0	7.0	8.0	7.0
DLFPS-236/3552	7.3	6.7	7.7	7.7	6.7	6.3	6.7	7.0	7.0
DLFPS-236/3553	6.7	7.3	7.0	7.3	6.0	6.0	8.0	7.0	7.0
DLFPS-238/3014	7.3	7.0	7.0	7.3	7.7	6.7	7.0	6.3	7.0
FASTBALL 3GL (PPG-PR 329)	7.3	7.3	6.3	6.3	6.7	6.7	8.0	7.3	7.0
MRS�-PR16	6.3	7.7	8.0	6.3	6.7	6.3	7.3	6.7	7.0
NP-3	7.0	8.0	7.7	7.0	5.7	6.3	7.0	7.0	7.0
PEPPER II (RAD-PR 103)	7.3	7.0	7.3	7.3	6.3	6.7	6.7	7.7	7.0
PST-2FOXY	7.3	7.3	8.0	7.3	7.0	6.0	6.3	7.3	7.0
PST-2PDA	7.0	7.0	7.0	6.7	6.7	7.3	7.0	7.0	7.0
BAR LP 6131	6.3	7.3	7.7	6.7	6.3	5.7	7.3	7.0	6.9
BAR LP 6159	7.3	7.0	6.7	7.0	6.3	7.0	6.7	7.3	6.9
GRAY WOLF (PST-2GAL)	7.3	7.0	7.7	7.7	6.0	6.7	6.3	7.0	6.9
HOMERUN LS (PPG-PR 419)	7.0	7.3	7.0	7.3	6.0	5.7	7.3	7.3	6.9
SIGNET	7.3	7.3	7.0	7.0	6.3	6.7	7.0	7.0	6.9
SLIDER LS (PPG-PR 241)	6.3	7.3	7.3	6.7	6.0	6.7	7.0	7.0	6.9
APR2616	7.0	7.0	7.7	6.7	6.7	6.0	6.7	6.7	6.8
ASP0118GL (A-4G)	6.7	7.0	7.0	7.3	6.7	5.7	6.7	7.3	6.8
DLFPS-236/3540	6.0	7.3	7.0	6.7	5.7	6.3	7.3	7.3	6.8
DLFPS-236/3550	7.3	7.0	8.0	7.0	5.3	6.7	6.7	7.0	6.8
GRAY HAWK (PST-2FIND)	7.0	7.7	6.7	6.3	6.7	6.0	7.0	7.0	6.8
PST-2A2	7.0	7.3	7.0	6.7	6.7	5.3	7.3	7.3	6.8
PST-2EGAD	6.7	7.7	7.0	6.3	6.3	5.3	7.7	7.3	6.8
TEE-ME-UP (BSP-25)	6.7	7.0	7.7	7.3	6.3	5.3	7.0	6.7	6.8
02BS2	6.7	8.0	7.3	6.3	5.7	6.3	6.7	6.7	6.7
BAR LP 6117	6.0	6.7	7.0	6.7	5.7	7.0	6.7	7.3	6.7
FIREBALL (BWH)	6.7	6.7	8.3	7.0	6.7	4.7	6.3	7.3	6.7
INTENSE	7.3	7.3	7.0	6.7	5.7	6.7	6.7	6.7	6.7
PARADOX GLR (PPG-PR 331)	7.0	6.7	7.3	6.3	7.0	6.0	6.3	7.0	6.7
PST-2BDT	7.3	7.0	7.7	7.0	6.0	5.3	6.7	7.0	6.7
SPIKE GLS (UF3)	7.3	6.7	6.7	7.0	7.3	5.3	6.7	7.3	6.7
SR 4650	6.3	7.7	7.0	6.3	5.7	5.7	6.3	8.0	6.7
APR2612	7.0	7.0	7.0	6.3	6.3	6.0	7.0	6.3	6.6
APR3060	6.3	7.3	7.0	6.7	6.3	6.7	6.0	6.0	6.6
NEXUS GT (SNX)	6.7	7.3	7.3	6.7	5.3	6.0	6.0	7.3	6.6
PPG-PR 367	6.7	6.7	6.7	7.0	6.0	5.7	7.0	7.3	6.6
ALLSTAR FORE (DLFPS-236/3541)	7.3	6.3	6.3	6.7	6.3	6.0	7.0	6.7	6.5
DLFPS-236/3556	7.0	6.3	7.3	6.7	5.7	6.0	7.0	6.7	6.5
LPB-SD-102	7.0	6.7	6.7	7.3	5.7	5.7	6.3	7.3	6.5
LPB-SD-105	6.3	6.3	7.7	7.3	5.3	5.0	7.7	6.3	6.5
APPLE 3GL (PPG-PR 339)	6.3	7.0	6.7	6.7	6.0	6.0	6.3	6.3	6.4
BRIGHTSTAR SLT	6.7	7.3	6.7	6.3	5.3	6.0	6.7	6.3	6.4
MRS�-PR15	7.0	6.7	7.0	6.0	6.0	6.3	6.3	6.7	6.4
GREEN SUPREME+ (AMP-R1)	6.0	7.3	7.7	6.0	5.7	4.7	6.3	6.7	6.3

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
MENSA	6.3	6.3	8.0	7.3	5.3	5.0	5.7	6.7	6.3
BAR LP 6162	6.3	6.0	5.7	7.3	5.7	6.3	5.7	6.7	6.2
LPB-SD-103	6.7	7.0	7.3	7.0	4.7	5.0	6.0	6.7	6.2
LPB-SD-104	5.7	8.0	7.0	6.7	6.0	4.3	5.7	6.0	6.2
CS-6	6.0	6.7	7.7	6.7	5.3	5.3	5.0	6.3	6.1
DERBY XTREME	6.7	7.0	7.0	6.0	5.0	5.3	6.0	6.7	6.1
KARMA	6.3	6.3	6.7	6.3	5.7	5.0	6.3	6.7	6.1
ALLSTAR III	6.0	6.3	7.3	6.7	5.0	4.3	6.0	6.3	6.0
CAYMAN (GO-143)	6.7	6.0	7.3	6.3	5.3	5.3	5.3	6.0	6.0
GO-141	6.7	6.7	6.7	6.3	5.3	5.0	6.0	6.0	6.0
JR-123	5.7	6.3	7.0	6.7	5.3	4.3	5.7	7.0	6.0
JR-888	6.0	6.3	6.0	6.0	6.7	5.3	5.7	6.3	6.0
SAVANT	6.3	5.7	6.3	7.0	5.7	5.3	6.3	6.0	6.0
EVOLVE	5.7	6.7	6.0	6.0	6.7	4.3	5.7	6.0	5.9
LPB-SD-101	6.3	6.0	7.0	7.0	5.0	4.3	5.3	6.3	5.9
ASPO218 (A-6D)	6.0	6.7	6.7	6.0	5.0	4.7	5.3	6.3	5.8
SAGUARO	6.0	6.3	7.3	6.3	4.3	4.3	5.7	6.0	5.8
BELIZE 2 (GO-142)	6.0	6.0	6.0	6.0	5.0	5.0	5.7	5.7	5.6
JR-747	5.3	6.7	6.0	5.7	4.3	4.0	4.7	5.3	5.2
LINN	5.0	5.0	5.3	5.7	3.0	4.0	5.0	4.0	4.6
LSD VALUE	.	2.9	2.9	1.6	1.6	1.6	1.8	2.1	0.8
C.V. (%)	.	13.1	12.7	10.7	14.2	14.8	13.9	12.6	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 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	COLOR NOVEMBER	WINTER KILL	APR	MAY	JUN	QUALITY RATINGS				MEAN
								JUL	AUG	SEP	OCT	
NP-3	8.3	7.3	6.7	8.3	7.3	8.3	8.3	8.3	8.7	8.7	8.7	8.3
LPB-SD-103	8.7	7.3	7.0	8.0	8.3	8.7	8.3	8.3	8.0	8.0	7.3	8.1
OVERDRIVE 5G	7.7	8.0	6.0	5.7	7.7	8.7	7.7	7.7	8.3	8.3	8.3	8.1
PL2	8.0	7.7	5.7	6.0	7.7	9.0	8.0	8.0	8.3	7.7	8.0	8.1
XCELERATOR	8.3	8.3	6.3	9.0	8.3	9.0	8.3	7.3	8.0	8.0	7.7	8.1
BAR LP 6117	7.3	7.7	6.7	9.0	7.3	8.3	7.7	8.0	8.7	8.3	8.0	8.0
CS-6	8.0	6.7	6.7	8.0	8.3	8.3	8.3	7.7	8.3	7.7	7.3	8.0
DLFPS-236/3556	8.0	7.3	5.7	5.3	7.7	8.0	8.0	7.7	8.3	8.0	8.7	8.0
FIREBALL (BWH)	8.0	8.0	6.7	4.7	8.0	7.7	7.7	8.0	8.3	7.7	8.3	8.0
MENSA	8.7	7.3	6.0	9.0	8.7	8.3	7.7	7.3	8.7	7.7	8.0	8.0
NP-2	8.3	7.7	6.3	7.7	8.3	8.0	8.0	7.7	8.7	7.7	8.0	8.0
SHIELD (02BS4)	7.7	8.0	6.3	8.3	7.7	8.0	7.7	7.7	8.3	8.0	8.3	8.0
SR 4650	7.7	7.7	6.7	5.0	8.0	8.3	7.7	8.0	8.7	8.0	7.7	8.0
APR2616	7.7	7.7	5.7	8.7	7.3	8.7	8.0	7.7	8.0	7.3	8.0	7.9
BAR LP 6158	7.7	7.3	6.0	6.7	8.0	7.7	7.3	7.7	8.7	8.0	8.0	7.9
FIESTA CINCO (DLFPS-236/3554)	7.3	7.3	6.3	8.7	8.0	7.7	7.3	7.3	8.3	8.3	8.0	7.9
GRAY WOLF (PST-2GAL)	8.0	7.3	6.0	7.0	8.0	8.0	7.7	8.0	8.3	7.7	7.7	7.9
INTENSE	8.0	7.3	6.0	9.0	7.7	8.0	8.0	7.7	7.3	8.0	8.3	7.9
KARMA	7.3	7.7	6.0	8.3	8.0	8.0	7.3	7.7	8.0	8.0	8.0	7.9
LPB-SD-101	8.3	7.3	6.3	9.0	7.7	8.3	7.7	8.0	8.0	7.7	8.0	7.9
PARADOX GLR (PPG-PR 331)	7.3	7.7	6.7	7.7	7.7	8.0	7.7	8.0	8.0	7.7	8.0	7.9
PPG-PR 423	8.0	8.0	6.3	8.3	8.7	8.3	8.0	7.0	8.0	7.3	7.7	7.9
TEE-ME-UP (BSP-25)	8.7	8.0	6.0	4.7	7.7	8.0	7.7	7.7	8.0	8.0	8.0	7.9
ASP0116EXT	7.7	7.3	6.3	5.3	8.0	8.3	7.7	7.3	7.7	7.3	8.0	7.8
ASP0218 (A-6D)	7.3	8.3	6.0	8.7	7.7	8.0	7.3	7.3	8.0	8.0	8.0	7.8
FASTBALL 3GL (PPG-PR 329)	8.0	8.0	6.3	5.0	7.7	8.0	7.7	8.0	8.0	7.3	8.0	7.8
PR-6-15	7.7	7.7	6.7	6.7	7.3	8.3	7.3	7.7	8.0	8.0	7.7	7.8
PST-2A2	8.0	7.3	6.3	9.0	8.0	7.7	7.7	7.7	8.0	7.3	8.3	7.8
BAR LP 6164	7.3	7.7	5.7	6.3	7.0	7.7	7.3	7.7	8.3	8.0	7.7	7.7
DERBY XTREME	7.7	7.7	7.0	9.0	8.0	8.7	7.7	7.0	7.7	7.3	7.7	7.7
DLFPS-236/3540	7.7	7.3	6.0	4.7	7.7	8.3	7.7	7.3	8.0	7.3	7.7	7.7
DLFPS-236/3544	7.7	7.7	6.0	6.0	8.0	8.3	7.3	7.3	7.7	7.3	7.7	7.7
DLFPS-236/3548	7.0	8.0	6.3	9.0	8.0	8.3	7.7	7.3	8.0	7.3	7.3	7.7
DLFPS-238/3014	7.0	6.7	6.3	6.3	7.0	8.3	7.7	7.7	7.7	8.0	7.7	7.7
JR-747	7.7	7.3	5.0	3.0	7.0	8.0	7.0	7.3	8.0	8.3	8.0	7.7
PPG-PR 367	7.3	7.7	6.3	6.7	7.7	8.0	7.3	7.7	8.0	7.7	7.3	7.7
PST-2PDA	8.3	7.7	7.0	7.3	7.7	8.0	7.7	7.7	7.7	7.3	8.0	7.7
SLUGGER 3GL (PPG-PR 343)	8.0	7.7	6.7	8.3	8.0	7.7	7.0	7.0	7.7	7.7	8.7	7.7
BAR LP 6162	7.7	7.3	6.3	8.7	7.7	8.3	7.7	7.0	7.7	7.0	8.0	7.6
DLFPS-236/3546	7.7	7.3	5.7	7.0	7.7	8.0	7.0	7.7	7.7	7.7	7.7	7.6
DLFPS-236/3547	7.7	7.7	6.0	8.7	8.0	8.0	7.3	7.3	7.7	7.3	7.3	7.6
DLFPS-236/3550	7.3	7.0	6.0	7.0	8.0	7.7	7.7	7.3	7.3	7.3	8.0	7.6
HOMERUN LS (PPG-PR 419)	7.3	7.7	6.0	8.0	7.0	8.3	7.7	7.7	7.7	7.3	7.7	7.6
PPG-PR 372	7.7	7.3	6.3	4.7	7.3	7.7	7.3	7.7	8.3	7.3	7.7	7.6
PPG-PR 422	8.0	7.0	6.0	8.3	8.0	8.3	7.7	7.3	7.3	7.0	7.7	7.6
RAD-PR 112	7.3	7.0	6.0	9.0	7.3	7.7	7.7	7.3	7.7	7.7	8.0	7.6
SAGUARO	8.0	7.3	6.3	8.0	8.0	8.0	7.3	7.3	7.3	7.3	7.7	7.6

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	COLOR NOVEMBER	WINTER KILL	QUALITY RATINGS							
					APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
BAR LP 6165	6.7	6.7	5.7	4.3	7.7	7.7	7.0	7.3	8.0	7.3	7.7	7.5
PPG-PR 421	7.7	7.7	6.0	6.3	7.7	7.7	7.3	7.3	7.7	7.3	7.7	7.5
SAVANT	7.7	7.3	6.7	7.3	8.0	8.0	7.0	7.0	7.3	7.3	8.0	7.5
ASP0118GL (A-4G)	7.7	7.0	6.3	8.0	8.0	7.7	7.3	7.3	7.3	7.0	7.3	7.4
BAR LP 6131	7.0	6.7	6.0	9.0	6.7	7.7	7.3	7.3	7.7	7.3	7.7	7.4
LPB-SD-102	7.3	7.3	6.7	6.3	7.7	8.0	7.0	7.3	7.7	7.0	7.0	7.4
PPG-PR 371	7.0	7.0	6.3	6.3	7.7	7.3	7.0	7.3	7.3	7.3	7.7	7.4
APPLE 3GL (PPG-PR 339)	7.7	7.3	6.7	8.7	8.0	7.0	7.0	7.3	7.3	7.0	7.3	7.3
PR-5-16	5.0	5.3	6.3	6.3	5.0	6.0	5.7	5.7	6.0	6.3	6.3	5.9
GO-141	5.7	5.3	6.0	5.3	5.7	6.0	5.7	5.7	6.0	5.7	5.7	5.8
HATRICK (BSP-17)	6.0	5.3	6.7	4.3	5.3	6.0	6.0	5.7	6.3	5.7	5.7	5.8
DLFPS-236/3542	5.7	5.3	6.0	3.0	5.3	6.0	5.7	5.3	6.0	5.7	6.0	5.7
MRS�-PR15	5.7	5.3	6.7	5.7	5.7	5.7	5.7	5.7	6.3	5.7	5.3	5.7
SILVER SPORT (PST-2CRP)	5.3	5.0	6.3	4.0	5.0	6.0	6.0	6.0	6.0	5.3	5.7	5.7
02BS1	5.3	5.0	6.7	5.3	5.3	6.0	5.7	5.0	5.7	5.7	5.7	5.6
ALLSTAR III	5.7	5.3	6.3	4.3	5.0	5.7	5.7	5.3	6.0	5.7	5.7	5.6
APR3060	5.7	5.7	5.7	4.0	5.7	5.3	5.3	5.7	6.0	5.3	5.7	5.6
DLFPS-236/3545	5.7	5.0	5.7	4.3	5.3	6.0	6.0	5.7	5.7	5.0	5.3	5.6
JR-197	5.7	5.3	6.3	4.3	5.7	5.3	5.7	5.3	5.7	5.7	6.0	5.6
PST-2BDT	5.7	5.3	6.3	4.7	5.0	5.0	5.7	5.7	6.0	5.7	6.0	5.6
PST-2FOXY	5.3	5.7	6.7	4.7	6.0	5.7	5.7	5.3	5.3	5.7	5.7	5.6
SPIKE GLS (UF3)	5.7	5.3	6.0	4.0	6.0	6.0	5.3	5.7	5.7	5.0	5.3	5.6
ASP0117 (A-PR15)	5.3	5.3	6.0	5.7	5.3	6.0	5.3	5.3	5.7	5.3	5.3	5.5
BAR LP 6159	5.3	5.0	6.3	5.3	5.3	5.3	5.3	5.3	5.7	5.7	6.0	5.5
CAYMAN (GO-143)	5.7	5.0	6.3	6.3	5.3	6.0	5.7	5.3	5.0	5.3	5.7	5.5
DLFPS-236/3553	5.3	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.3	5.3	5.7	5.5
GREEN SUPREME+ (AMP-R1)	5.7	5.0	7.0	3.3	6.0	5.7	5.3	5.0	5.0	5.7	6.0	5.5
NEXUS GT (SNX)	5.7	5.0	6.7	6.3	5.3	5.7	5.7	5.3	6.0	5.3	5.3	5.5
PEPPER II (RAD-PR 103)	5.7	5.7	6.7	6.0	6.0	5.7	5.0	5.0	5.7	5.0	6.0	5.5
PHARAOH	5.3	5.0	6.3	6.0	6.0	6.0	4.7	5.3	5.3	5.3	5.7	5.5
PPG-PR 370	5.3	5.3	6.7	6.0	5.7	5.7	5.3	5.3	5.3	5.3	6.0	5.5
STELLAR 4GL (PPG-PR 424)	5.3	5.3	6.3	6.3	5.7	6.0	5.7	5.3	5.0	5.0	5.7	5.5
PST-2EGAD	5.7	4.7	6.0	5.3	5.3	5.3	5.3	5.3	5.7	5.3	6.0	5.5
UMPQUA	5.3	5.7	6.3	5.0	5.7	5.3	5.7	5.3	5.7	5.0	5.7	5.5
APR2612	5.0	5.3	5.7	6.3	5.7	6.0	5.3	5.3	5.3	5.3	5.0	5.4
DLFPS-236/3552	5.3	5.3	5.7	3.0	5.3	5.7	5.3	5.7	5.7	5.3	5.0	5.4
JR-123	5.7	5.7	6.0	4.0	5.3	5.3	5.0	5.7	5.7	5.3	5.7	5.4
LPB-SD-104	5.7	5.7	6.3	5.7	5.0	6.0	5.3	5.3	5.3	5.0	5.7	5.4
MRS�-PR16	5.7	5.3	6.3	6.0	6.0	5.7	5.3	5.0	5.0	5.3	5.3	5.4
SUPERSTAR GL (PPG-PR 420)	5.0	5.3	6.0	6.3	5.3	5.7	5.3	5.3	5.3	5.3	5.3	5.4
PST-2MAY	5.0	6.0	6.0	4.7	5.3	5.7	5.0	5.3	6.0	5.3	5.3	5.4
CPN	5.0	5.3	6.7	6.3	5.0	5.3	5.3	5.3	5.3	5.3	5.7	5.3
SR 4700 (DLFPS-236/3543)	5.3	5.3	6.3	5.0	5.3	5.3	5.0	5.7	5.3	5.0	5.3	5.3
EVOLVE	5.0	5.0	6.0	4.3	5.0	5.7	5.7	5.3	5.3	5.0	5.3	5.3
GRAY HAWK (PST-2FIND)	5.3	5.0	7.0	3.0	5.3	5.0	5.3	5.3	5.3	5.3	5.3	5.3
PARAGON 2 GLR (FP2)	5.3	5.7	7.0	5.0	5.7	5.3	5.0	5.0	5.3	5.3	5.3	5.3
PPG-PR 385	5.3	5.0	6.7	5.7	5.0	5.7	5.3	5.0	5.7	5.3	5.3	5.3

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	COLOR NOVEMBER	WINTER KILL	APR	MAY	JUN	QUALITY RATINGS				MEAN
								JUL	AUG	SEP	OCT	
BAR LP 6233	5.0	5.0	6.7	5.0	5.3	5.3	5.0	5.3	5.7	5.0	5.0	5.2
LPB-SD-105	5.3	5.0	6.7	5.3	5.3	5.3	5.0	5.0	5.3	5.3	5.3	5.2
PPG-PR 360	5.7	5.0	5.7	6.3	5.7	5.7	4.7	5.0	5.3	5.3	5.0	5.2
BRIGHTSTAR SLT	5.0	5.3	6.3	4.3	5.0	5.0	5.0	5.0	5.3	5.3	5.3	5.1
FURLONG (LTP-FCB)	5.3	5.3	7.0	5.0	6.0	5.3	4.7	4.7	4.7	5.0	5.7	5.1
SIGNET	5.0	5.3	7.0	6.3	5.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEABISCUIT	3.7	3.0	6.7	3.7	3.7	3.7	3.3	3.7	3.7	3.3	3.3	3.5
ALLSTAR FORE (DLFPS-236/3541)	3.3	3.0	6.3	3.3	3.3	3.3	3.3	3.3	3.7	3.3	3.7	3.4
PST-2GTD	2.7	3.0	6.3	3.7	3.0	3.3	3.3	3.7	3.7	3.3	3.3	3.4
ALLOY (RRT)	3.3	3.3	6.0	3.0	3.3	3.3	3.3	3.3	3.7	3.3	3.0	3.3
JR-888	3.3	3.0	5.3	3.3	3.0	3.0	3.3	3.3	3.7	3.7	3.3	3.3
02BS2	3.3	3.3	5.7	1.3	3.0	3.7	3.3	3.3	3.3	3.0	3.0	3.2
BELIZE 2 (GO-142)	3.3	3.0	6.0	3.7	3.3	3.3	3.0	3.0	3.3	3.3	3.3	3.2
DLFPS-236/3538	3.3	3.7	6.3	3.7	3.3	3.3	3.0	3.3	3.3	3.0	3.3	3.2
SLIDER LS (PPG-PR 241)	3.3	3.0	6.3	3.3	3.3	3.3	3.0	3.0	3.3	3.0	3.3	3.2
021	3.0	2.7	6.7	3.0	3.3	3.0	3.0	3.0	3.3	3.0	3.3	3.1
023	3.0	3.0	5.7	3.7	3.3	3.0	2.7	3.0	3.0	3.0	3.3	3.0
LINN	2.3	3.0	4.0	3.7	1.7	1.7	2.0	2.3	2.0	2.3	2.3	2.0
GRAND SLAM GLD	1.0	1.0	6.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAN O WAR	1.0	1.0	6.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	9.0	9.2	2.8	11.2	9.0	9.0	9.2	9.6	9.7	8.8	9.7	9.0
C.V. (%)	43.3	43.4	11.8	53.9	43.6	43.7	43.6	43.4	43.8	43.1	43.5	42.8

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 5.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-PR 421	7.0	5.7	6.0	5.3	4.3	4.3	6.3	8.0	5.7
CAYMAN (GO-143)	7.0	6.0	6.0	4.7	3.3	4.0	6.3	8.0	5.5
JR-123	7.0	5.7	6.0	5.3	4.3	4.0	6.0	7.3	5.5
SLUGGER 3GL (PPG-PR 343)	7.0	5.7	6.0	5.0	4.0	4.0	6.0	7.7	5.5
02BS2	7.0	6.0	6.0	4.7	3.7	3.3	6.0	8.0	5.4
DLFPS-236/3546	7.0	6.0	6.0	4.7	4.0	3.7	6.0	7.7	5.4
DLFPS-236/3547	7.0	5.3	6.3	5.0	4.0	4.3	5.7	7.3	5.4
FURLONG (LTP-FCB)	7.0	6.0	6.0	4.7	3.7	4.0	5.7	7.7	5.4
PST-2PDA	7.0	5.7	6.0	4.3	3.7	4.3	6.0	7.7	5.4
SIGNET	6.7	5.7	6.0	4.3	4.0	4.3	6.0	7.3	5.4
ALLOY (RRT)	7.0	6.0	6.0	4.3	3.3	4.0	5.7	8.0	5.3
APPLE 3GL (PPG-PR 339)	7.0	5.3	6.0	4.7	3.7	4.3	5.3	7.7	5.3
DLFPS-236/3538	7.0	6.0	6.0	4.7	3.7	3.7	5.7	7.7	5.3
DLFPS-238/3014	6.3	5.3	5.7	5.0	3.7	4.7	6.0	7.0	5.3
FASTBALL 3GL (PPG-PR 329)	7.0	4.7	6.0	5.0	4.0	4.7	6.0	7.0	5.3
JR-197	7.0	6.0	6.0	4.3	3.3	3.7	6.0	8.0	5.3
PPG-PR 371	7.0	6.0	6.0	4.3	3.3	4.3	6.0	7.3	5.3
PPG-PR 385	6.7	5.3	6.0	4.7	3.7	4.7	6.0	7.0	5.3
SUPERSTAR GL (PPG-PR 420)	7.0	5.7	6.0	4.7	4.0	3.7	5.7	7.7	5.3
SILVER SPORT (PST-2CRP)	7.0	5.0	6.0	4.3	3.7	4.7	5.7	7.7	5.3
APR2612	7.0	5.0	6.0	4.7	3.3	4.3	6.0	7.0	5.2
ASP0117 (A-PR15)	7.0	6.0	6.0	4.3	3.3	3.7	5.7	7.7	5.2
BAR LP 6158	6.3	5.0	5.7	4.7	3.7	5.0	6.0	6.7	5.2
BAR LP 6164	6.7	5.3	6.0	5.0	3.7	4.0	5.0	7.3	5.2
ALLSTAR FORE (DLFPS-236/3541)	7.0	6.0	6.0	4.3	3.3	3.7	5.3	8.0	5.2
DLFPS-236/3542	7.0	5.7	6.0	4.3	3.7	3.7	5.3	7.7	5.2
DLFPS-236/3544	7.0	5.3	6.0	4.3	3.7	4.0	5.7	7.7	5.2
DLFPS-236/3545	7.0	6.0	6.0	4.3	3.3	3.7	5.0	8.0	5.2
GREEN SUPREME+ (AMP-R1)	7.0	6.0	6.0	4.0	3.0	4.0	5.3	8.0	5.2
NEXUS GT (SNX)	7.0	5.3	6.0	4.7	3.7	4.3	5.3	7.0	5.2
PPG-PR 360	7.0	6.0	6.0	4.3	3.3	3.7	5.0	8.0	5.2
SEABISCUIT	7.0	5.0	6.0	4.7	3.7	4.3	5.7	7.0	5.2
BAR LP 6117	6.7	6.0	6.0	4.0	3.0	4.0	5.0	8.0	5.1
DLFPS-236/3548	7.0	6.0	6.0	3.7	3.0	3.0	6.0	8.0	5.1
GRAY HAWK (PST-2FIND)	7.0	5.3	6.0	4.7	3.3	3.7	5.3	7.3	5.1
GRAY WOLF (PST-2GAL)	7.0	6.0	6.0	4.0	3.3	3.0	5.3	8.0	5.1
PEPPER II (RAD-PR 103)	6.7	5.3	6.0	4.3	3.7	4.0	5.0	7.3	5.1
PST-2FOXY	7.0	5.7	6.0	4.3	3.3	3.7	5.3	7.3	5.1
PST-2GTD	7.0	5.0	6.0	4.7	3.7	3.3	5.7	7.3	5.1
02BS1	7.0	5.3	5.7	4.3	3.3	3.0	5.7	7.7	5.0
APR3060	7.0	5.3	6.0	4.0	3.0	4.0	4.7	7.7	5.0
BAR LP 6159	6.3	5.3	6.0	4.3	3.0	4.0	5.0	7.3	5.0
BAR LP 6233	6.3	5.0	5.3	4.3	3.3	4.0	5.7	7.0	5.0
BELIZE 2 (GO-142)	7.0	5.3	6.0	4.0	2.7	4.0	5.7	7.7	5.0
SR 4700 (DLFPS-236/3543)	7.0	6.0	6.0	4.3	3.3	2.7	4.3	8.0	5.0
DLFPS-236/3550	7.0	5.7	6.0	4.0	2.7	3.3	5.3	7.7	5.0
DLFPS-236/3552	7.0	5.7	6.0	3.7	2.7	3.7	5.0	8.0	5.0

TABLE 5.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3553	6.7	5.7	6.0	4.0	3.0	2.7	5.3	8.0	5.0
FIESTA CINCO (DLFPS-236/3554)	7.0	6.0	6.0	3.7	3.0	3.0	5.0	8.0	5.0
HATRICK (BSP-17)	7.0	5.3	5.7	4.0	3.0	4.3	5.3	7.3	5.0
HOMERUN LS (PPG-PR 419)	7.0	5.0	6.0	4.7	3.7	3.3	5.0	7.3	5.0
MRS�-PR15	6.7	5.0	6.0	4.3	3.3	3.7	6.0	6.7	5.0
MRS�-PR16	7.0	5.3	6.0	4.3	3.7	3.3	5.3	7.3	5.0
NP-2	7.0	5.0	6.3	4.0	3.0	3.7	6.0	7.0	5.0
NP-3	7.0	5.7	6.0	4.0	3.0	3.3	5.0	7.7	5.0
PARADOX GLR (PPG-PR 331)	7.0	5.3	6.0	4.0	2.7	3.7	6.0	7.7	5.0
PPG-PR 370	7.0	6.0	6.0	4.0	3.0	3.0	5.0	7.7	5.0
PR-5-16	7.0	6.0	6.0	3.7	3.0	3.3	5.3	8.0	5.0
PR-6-15	7.0	6.0	6.0	4.0	3.0	3.0	5.0	7.7	5.0
PST-2A2	7.0	5.3	6.0	4.7	2.7	3.3	5.3	7.3	5.0
RAD-PR 112	7.0	5.0	5.7	4.0	3.0	4.3	6.0	7.0	5.0
SHIELD (02BS4)	6.7	6.0	6.0	3.7	3.0	3.3	5.0	8.0	5.0
SR 4650	7.0	5.3	6.0	4.3	3.3	3.7	4.7	7.3	5.0
TEE-ME-UP (BSP-25)	7.0	4.7	6.0	4.0	3.3	4.0	6.3	6.7	5.0
ASP0118GL (A-4G)	7.0	5.0	6.0	4.3	3.0	3.3	5.3	7.3	4.9
ASP0218 (A-6D)	7.0	5.7	5.7	3.7	3.0	3.3	5.3	7.3	4.9
BRIGHTSTAR SLT	6.7	5.3	6.0	3.7	2.7	3.3	5.3	7.7	4.9
CPN	7.0	6.0	6.0	3.7	3.0	3.0	5.0	7.7	4.9
DLFPS-236/3540	7.0	5.7	6.0	4.0	3.0	3.3	5.0	7.3	4.9
DLFPS-236/3556	7.0	5.3	6.0	3.7	3.0	4.0	4.7	7.3	4.9
EVOLVE	6.3	5.0	5.7	4.0	3.3	4.0	5.3	7.0	4.9
FIREBALL (BWH)	7.0	5.0	5.7	4.3	3.7	3.7	5.3	6.7	4.9
GRAND SLAM GLD	7.0	5.7	6.0	3.3	2.3	4.3	5.0	7.3	4.9
PPG-PR 422	7.0	5.3	6.0	4.0	3.0	3.3	5.7	7.0	4.9
PPG-PR 423	7.0	6.0	6.0	4.0	3.0	3.0	4.7	7.7	4.9
PST-2BDT	6.7	6.0	6.0	3.7	3.0	3.0	4.7	8.0	4.9
SLIDER LS (PPG-PR 241)	7.0	5.3	6.0	3.7	2.7	3.3	5.7	7.7	4.9
SPIKE GLS (UF3)	6.7	5.3	6.0	4.0	3.0	3.0	5.3	7.7	4.9
021	6.7	5.3	6.0	3.3	3.0	3.7	5.0	7.3	4.8
ALLSTAR III	7.0	5.3	6.0	4.0	3.0	3.0	5.0	7.0	4.8
ASP0116EXT	6.7	5.0	5.7	3.7	3.0	3.3	6.0	7.0	4.8
BAR LP 6131	6.3	5.7	6.0	3.7	2.3	3.3	5.0	7.3	4.8
PHARAOH	6.7	5.0	6.0	3.3	2.7	3.3	6.0	7.3	4.8
PL2	6.7	5.0	6.0	4.0	3.0	3.0	5.3	7.0	4.8
PPG-PR 367	7.0	5.7	6.0	3.7	2.0	3.7	5.7	7.0	4.8
STELLAR 4GL (PPG-PR 424)	7.0	5.3	6.0	3.7	2.3	3.3	5.7	7.3	4.8
APR2616	7.0	6.0	6.0	3.0	2.0	3.0	5.0	7.7	4.7
INTENSE	7.0	4.7	5.7	3.7	2.7	3.3	5.7	7.0	4.7
MAN O WAR	7.0	5.7	6.0	3.0	2.7	2.7	5.0	7.7	4.7
OVERDRIVE 5G	7.0	5.7	6.0	3.7	2.3	2.7	5.0	7.7	4.7
UMPQUA	7.0	5.0	6.0	4.3	3.3	2.7	4.3	7.3	4.7
XCELERATOR	7.0	5.7	5.7	3.7	3.0	2.3	4.7	8.0	4.7
023	6.7	5.7	6.0	3.3	2.3	3.0	5.0	7.0	4.6
BAR LP 6162	6.7	5.0	6.0	3.3	2.3	3.3	5.0	7.0	4.6

TABLE 5.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							
		APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CS-6	7.0	5.3	6.0	3.3	2.3	3.0	4.3	7.7	4.6
GO-141	7.0	5.0	6.0	3.7	2.3	3.7	4.7	7.0	4.6
LPB-SD-101	6.3	5.3	5.7	4.0	2.3	2.7	4.7	7.3	4.6
LPB-SD-103	6.3	4.3	5.7	3.7	2.7	3.3	5.7	7.0	4.6
LPB-SD-104	6.3	5.0	5.7	3.7	2.7	2.7	5.7	7.0	4.6
MENSA	6.3	5.0	5.3	3.7	2.3	3.0	5.7	7.0	4.6
PARAGON 2 GLR (FP2)	6.7	5.0	5.7	3.7	2.7	3.0	5.0	7.0	4.6
PST-2EGAD	6.7	4.7	5.7	4.0	3.0	3.0	5.0	7.0	4.6
JR-888	6.3	5.0	6.0	3.0	2.0	2.7	5.3	7.7	4.5
PPG-PR 372	7.0	5.3	6.0	3.3	2.7	3.0	3.7	7.3	4.5
SAGUARO	6.3	5.7	5.7	3.3	2.3	2.3	4.0	8.0	4.5
SAVANT	6.3	5.7	6.0	3.3	1.7	2.0	5.3	7.7	4.5
DERBY XTREME	6.7	5.3	5.7	3.0	2.0	2.7	5.0	7.0	4.4
JR-747	6.0	4.3	6.0	3.7	2.7	2.7	5.3	6.3	4.4
BAR LP 6165	6.0	5.0	5.3	3.0	2.0	2.3	5.3	7.0	4.3
LPB-SD-102	6.7	5.0	5.3	3.3	2.0	2.3	5.3	7.0	4.3
LPB-SD-105	6.3	4.7	5.0	2.3	1.3	2.3	5.7	6.7	4.0
LINN	6.0	3.0	4.0	4.0	2.0	2.0	5.0	5.0	3.6
LSD VALUE	0.6	0.9	0.5	2.3	1.8	2.1	3.5	1.0	0.8
C.V. (%)	4.6	9.3	4.5	20.0	25.5	24.9	16.0	7.1	8.0

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 RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS									
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
ALLSTAR FORE (DLFPS-236/3541)	5.7	6.3	6.0	5.3	5.0	6.3	7.3	7.7	7.7	6.4
DLFPS-236/3546	6.3	6.0	6.0	6.0	5.7	6.3	6.7	7.0	7.3	6.4
DLFPS-236/3556	6.3	6.3	6.3	5.7	5.0	6.0	7.3	7.3	7.0	6.4
PARADOX GLR (PPG-PR 331)	6.3	6.0	6.0	5.7	6.3	6.3	6.7	7.0	7.0	6.4
PPG-PR 421	5.7	6.3	6.0	6.0	5.7	6.3	7.0	7.7	6.7	6.4
SLIDER LS (PPG-PR 241)	6.7	6.7	6.0	6.0	5.0	5.7	6.7	7.3	7.7	6.4
02BS2	5.3	6.3	6.0	6.0	5.7	6.0	6.3	7.3	7.3	6.3
SR 4700 (DLFPS-236/3543)	6.3	7.0	7.0	5.0	4.7	6.3	6.3	7.3	7.0	6.3
DLFPS-236/3545	6.0	6.0	6.0	5.3	5.3	6.0	7.0	7.7	7.3	6.3
DLFPS-236/3547	6.0	6.3	5.7	6.0	5.7	6.0	6.3	7.3	7.0	6.3
FIESTA CINCO (DLFPS-236/3554)	6.0	6.7	6.0	4.3	6.0	6.0	7.0	7.3	7.0	6.3
PL2	6.3	6.0	5.7	6.0	5.7	5.7	7.0	7.7	7.0	6.3
PPG-PR 370	6.3	6.0	6.0	5.7	6.0	6.0	6.7	7.0	7.0	6.3
PPG-PR 423	5.7	6.7	6.3	5.0	6.3	6.0	6.7	7.0	6.7	6.3
PST-2GTD	5.3	6.3	6.3	5.7	5.7	6.3	6.7	7.3	7.0	6.3
SLUGGER 3GL (PPG-PR 343)	6.0	6.3	6.3	5.7	5.7	6.3	6.7	6.7	6.7	6.3
ALLOY (RRT)	6.0	6.0	6.0	5.0	5.3	6.0	6.7	7.7	7.0	6.2
APPLE 3GL (PPG-PR 339)	5.7	6.7	6.0	5.3	6.0	6.3	6.3	7.3	6.3	6.2
FURLONG (LTP-FCB)	6.3	6.7	6.7	5.3	5.0	5.7	6.3	7.0	6.7	6.2
NP-2	5.7	6.3	6.0	5.7	5.3	5.7	6.7	7.3	7.0	6.2
PPG-PR 372	6.0	6.3	6.3	5.0	5.7	5.7	6.7	7.0	7.0	6.2
SUPERSTAR GL (PPG-PR 420)	6.3	6.0	6.0	5.3	5.3	6.0	6.3	7.3	7.3	6.2
PST-2MAY	5.7	7.0	6.3	5.3	5.3	6.3	6.3	7.0	6.3	6.2
DLFPS-236/3550	5.7	6.0	6.0	6.0	5.7	5.7	6.3	7.3	6.7	6.1
DLFPS-236/3552	5.3	6.3	6.7	5.0	5.3	5.7	6.3	7.0	7.0	6.1
FASTBALL 3GL (PPG-PR 329)	6.3	6.0	5.3	5.7	5.3	5.7	6.3	7.3	6.7	6.1
GRAY WOLF (PST-2GAL)	6.0	6.0	5.3	5.3	5.7	6.0	6.3	7.0	7.0	6.1
MRSL-PR16	5.7	6.0	6.0	5.3	5.3	6.0	6.3	7.0	7.0	6.1
NP-3	5.7	6.7	6.0	5.7	5.3	5.7	6.0	7.0	6.7	6.1
PST-2EGAD	6.0	6.3	6.0	5.7	5.0	5.7	6.3	6.7	7.0	6.1
SHIELD (02BS4)	5.7	6.7	6.3	5.7	5.3	5.7	6.3	6.7	6.3	6.1
SILVER SPORT (PST-2CRP)	6.3	6.0	5.7	5.3	6.0	6.0	6.7	6.7	6.7	6.1
SR 4650	6.0	6.0	6.0	5.7	5.7	6.0	6.7	7.0	5.7	6.1
ASP0117 (A-PR15)	5.7	6.0	5.3	5.3	6.0	6.0	6.3	7.0	6.7	6.0
ASP0118GL (A-4G)	5.7	6.0	5.7	5.3	5.3	6.3	6.7	7.0	6.3	6.0
ASP0218 (A-6D)	6.0	6.3	6.0	4.7	5.7	5.7	6.7	7.0	6.3	6.0
BAR LP 6164	6.3	6.0	5.7	5.3	5.3	6.0	6.0	6.7	6.3	6.0
DLFPS-236/3540	6.0	6.0	5.7	6.0	5.3	5.0	6.7	6.7	6.3	6.0
DLFPS-236/3544	6.3	6.0	5.7	5.7	5.7	4.7	6.3	7.0	7.0	6.0
DLFPS-236/3548	5.3	6.7	6.0	5.7	5.3	5.7	6.0	7.0	6.3	6.0
GRAY HAWK (PST-2FIND)	5.0	6.3	6.0	5.0	5.7	5.7	6.3	7.0	6.7	6.0
HOMERUN LS (PPG-PR 419)	6.0	6.0	5.3	6.0	5.3	6.0	6.0	7.0	6.3	6.0
JR-197	6.0	6.0	6.0	5.3	5.0	6.0	6.3	7.0	6.3	6.0
PPG-PR 422	6.0	6.0	5.7	5.3	5.3	6.0	6.0	7.3	6.3	6.0
STELLAR 4GL (PPG-PR 424)	6.0	7.0	6.3	5.3	5.3	5.0	6.0	6.7	6.7	6.0
PST-2FOXY	6.3	6.0	5.3	5.7	5.0	6.0	6.3	6.7	6.3	6.0
XCELERATOR	6.3	6.3	5.7	5.7	4.7	4.7	6.3	7.3	7.0	6.0

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS									MEAN
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
023	5.0	6.3	6.0	5.3	4.7	6.0	6.0	7.0	6.7	5.9
APR2612	5.7	6.0	5.3	5.0	5.3	5.3	6.3	7.0	6.7	5.9
APR2616	6.0	6.0	6.0	5.3	4.7	5.3	6.0	6.7	6.7	5.9
BAR LP 6233	5.0	6.3	6.0	4.3	5.3	6.0	6.7	7.0	6.7	5.9
CPN	5.7	6.0	5.7	5.7	5.3	5.7	6.0	6.7	6.0	5.9
EVOLVE	5.3	6.0	5.7	5.0	5.7	6.0	6.3	6.3	6.3	5.9
GREEN SUPREME+ (AMP-R1)	5.3	5.3	5.3	5.3	5.7	6.0	6.0	7.0	6.7	5.9
NEXUS GT (SNX)	6.3	6.0	5.7	5.3	4.7	5.3	6.3	6.7	7.0	5.9
PPG-PR 360	5.7	6.0	6.0	5.3	5.0	5.7	6.3	6.7	6.3	5.9
PPG-PR 371	5.3	6.3	6.3	5.0	4.7	5.3	6.3	6.7	7.0	5.9
PPG-PR 385	5.7	6.0	6.0	5.0	5.3	5.7	6.3	7.0	6.3	5.9
PR-5-16	5.3	6.3	6.0	4.3	5.0	6.0	6.3	7.3	6.7	5.9
PR-6-15	6.0	6.0	6.0	5.3	5.3	5.3	6.0	6.7	6.3	5.9
PST-2A2	5.7	6.3	5.7	5.3	5.3	5.3	6.3	6.7	6.3	5.9
PST-2BDT	5.7	6.3	5.7	5.3	5.3	5.7	5.7	7.0	6.3	5.9
SEABISCUIT	5.7	6.0	5.3	5.7	5.7	5.3	6.3	7.0	6.3	5.9
SIGNET	5.7	6.7	6.3	5.3	4.7	5.0	6.3	6.7	6.7	5.9
SPIKE GLS (UF3)	5.7	6.0	6.0	5.3	5.0	4.7	6.3	7.0	7.0	5.9
UMPQUA	6.0	6.0	5.3	5.7	5.3	5.7	6.0	6.7	6.3	5.9
APR3060	6.0	6.0	6.0	5.7	5.0	5.0	6.0	6.3	6.3	5.8
ASP0116EXT	5.7	6.0	5.3	5.3	5.3	5.7	6.0	6.3	6.3	5.8
CS-6	6.0	5.7	5.3	5.3	5.0	5.3	6.0	6.7	6.7	5.8
DLFPS-236/3538	5.3	6.0	6.3	4.7	5.0	5.3	6.3	6.7	6.7	5.8
DLFPS-236/3542	5.0	6.3	6.0	5.3	5.0	4.7	6.0	7.0	7.0	5.8
KARMA	5.7	6.3	6.0	5.3	4.7	5.3	6.3	6.7	6.0	5.8
PST-2PDA	5.7	6.0	5.3	4.7	5.0	6.0	6.0	7.0	6.3	5.8
021	5.3	6.3	6.0	5.7	5.0	5.0	5.3	6.3	6.3	5.7
02BS1	6.3	6.3	6.0	4.3	4.7	5.0	6.0	6.7	6.3	5.7
BAR LP 6117	5.3	6.0	5.7	4.7	5.0	6.0	5.7	6.7	6.3	5.7
BELIZE 2 (GO-142)	5.0	6.0	6.0	5.0	5.3	5.7	5.7	6.3	6.0	5.7
GRAND SLAM GLD	5.3	6.0	6.0	4.3	5.0	5.3	6.3	6.7	6.7	5.7
MAN O WAR	5.3	6.0	5.7	4.7	5.3	5.3	6.0	6.3	6.3	5.7
MRS1-PR15	5.7	6.0	5.7	5.0	4.7	5.0	6.0	7.3	6.3	5.7
PARAGON 2 GLR (FP2)	5.3	6.0	5.3	5.3	5.3	5.7	6.0	6.3	6.3	5.7
PHARAOH	5.7	6.0	5.7	5.3	5.0	5.3	6.0	6.7	6.0	5.7
TEE-ME-UP (BSP-25)	6.0	6.0	5.7	5.7	5.3	4.7	5.3	6.3	6.0	5.7
BAR LP 6158	5.3	6.0	5.0	5.3	5.3	5.3	6.0	6.3	6.0	5.6
BAR LP 6159	5.0	6.0	5.7	5.0	4.7	5.3	6.0	7.0	6.0	5.6
BAR LP 6165	5.3	6.3	5.0	4.7	4.3	5.7	6.0	6.7	6.0	5.6
CAYMAN (GO-143)	5.3	6.0	5.0	5.3	5.7	4.7	5.7	6.7	5.7	5.6
DERBY XTREME	5.7	6.0	5.7	5.0	5.0	5.3	5.7	6.3	6.0	5.6
DLFPS-236/3553	6.0	6.0	5.0	4.7	5.0	5.3	5.7	6.7	6.3	5.6
HATRICK (BSP-17)	5.7	5.7	5.7	5.7	5.0	5.3	5.0	6.0	6.0	5.6
OVERDRIVE 5G	5.3	6.0	5.0	5.0	5.0	5.0	6.0	6.3	6.3	5.6
RAD-PR 112	5.3	6.0	5.3	5.0	5.3	5.7	5.7	6.0	6.0	5.6
FIREBALL (BWH)	5.7	5.7	6.0	5.0	5.0	5.0	5.3	6.3	5.3	5.5
PPG-PR 367	6.0	6.0	5.0	5.0	4.7	4.7	6.0	6.3	6.0	5.5

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS									MEAN
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BAR LP 6131	5.3	6.3	6.0	5.0	4.7	4.7	5.0	6.3	5.7	5.4
GO-141	5.0	5.7	5.3	5.0	5.0	5.3	5.3	6.0	6.0	5.4
JR-123	5.3	6.0	5.7	4.7	4.3	4.3	6.0	6.7	6.0	5.4
PEPPER II (RAD-PR 103)	5.3	6.0	5.0	4.7	5.0	5.3	5.3	6.3	6.0	5.4
INTENSE	5.7	6.0	5.0	5.0	4.3	4.0	5.3	6.0	6.0	5.3
BAR LP 6162	5.0	5.7	5.0	4.3	4.7	5.3	5.7	6.0	5.0	5.2
JR-888	5.0	6.0	5.7	4.7	4.0	4.3	5.3	6.0	6.0	5.2
SAGUARO	5.3	6.0	5.0	4.3	4.3	4.3	5.3	6.0	6.3	5.2
SAVANT	4.7	6.0	5.7	5.0	4.0	4.7	5.0	6.0	5.7	5.2
ALLSTAR III	5.3	6.0	5.3	4.3	4.7	4.7	4.3	6.0	5.3	5.1
BRIGHTSTAR SLT	5.0	6.0	5.0	4.7	4.7	5.0	5.0	6.0	4.3	5.1
LPB-SD-103	5.0	6.0	5.3	5.3	4.3	4.7	4.3	6.0	4.7	5.1
DLFPS-238/3014	5.0	5.7	4.3	3.7	4.7	4.3	5.0	6.0	5.7	4.9
LPB-SD-102	5.3	5.7	4.7	5.0	4.3	4.0	4.0	6.0	4.7	4.9
LPB-SD-104	4.7	6.0	5.0	4.3	3.7	4.0	5.0	5.3	6.0	4.9
MENSA	5.0	6.0	5.3	4.7	4.0	4.0	4.0	5.7	5.3	4.9
LPB-SD-105	4.7	5.7	5.7	4.3	3.7	4.0	4.3	5.3	5.3	4.8
JR-747	4.7	6.0	5.3	4.7	3.7	4.0	3.7	5.7	5.0	4.7
LPB-SD-101	5.0	5.7	5.0	3.7	3.7	3.3	4.3	5.7	5.0	4.6
LINN	3.0	2.3	2.3	2.7	3.0	2.3	1.7	3.3	2.3	2.6
LSD VALUE	1.1	0.6	0.8	1.2	1.8	1.3	1.1	1.0	1.1	0.5
C.V. (%)	10.6	5.8	8.5	12.3	15.4	13.4	11.2	8.7	10.1	5.2

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 7.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLLEGE PARK, MD 1/
 2019 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	RED QUALITY RATINGS					MEAN
	THREAD	MAY	JUL	SEP	OCT	
02BS2	6.7	6.0	5.7	7.3	6.7	6.4
FASTBALL 3GL (PPG-PR 329)	7.0	6.0	5.0	6.7	6.3	6.0
PL2	6.3	5.7	5.0	6.7	6.7	6.0
SHIELD (02BS4)	6.3	5.3	5.3	6.7	6.7	6.0
021	6.3	6.0	5.0	6.3	6.3	5.9
DLFPS-236/3552	6.3	6.0	5.3	6.3	6.0	5.9
ALLSTAR FORE (DLFPS-236/3541)	6.7	6.0	6.0	5.3	6.0	5.8
SR 4700 (DLFPS-236/3543)	6.7	5.3	5.0	6.3	6.3	5.8
PPG-PR 360	7.3	5.7	5.0	6.3	6.0	5.8
ALLOY (RRT)	7.0	5.3	5.0	6.0	6.3	5.7
FIESTA CINCO (DLFPS-236/3554)	7.0	6.0	5.0	5.7	6.0	5.7
GRAND SLAM GLD	6.7	5.3	5.7	5.7	6.0	5.7
PPG-PR 367	6.7	5.3	4.7	6.3	6.3	5.7
PPG-PR 421	7.3	6.0	5.3	5.7	5.7	5.7
DLFPS-236/3548	7.0	5.3	5.3	6.0	5.7	5.6
DLFPS-236/3556	6.3	5.0	5.0	6.3	6.0	5.6
JR-123	6.3	5.3	4.7	6.0	6.3	5.6
PPG-PR 371	6.7	5.3	5.0	6.7	5.3	5.6
PST-2FOXY	6.3	5.3	5.0	6.3	5.7	5.6
APPLE 3GL (PPG-PR 339)	5.0	4.7	4.7	6.3	6.3	5.5
DLFPS-236/3544	5.7	5.7	4.7	5.7	6.0	5.5
DLFPS-236/3545	6.3	5.3	4.7	5.7	6.3	5.5
INTENSE	6.0	5.3	4.0	6.7	6.0	5.5
PST-2EGAD	5.3	5.3	4.3	6.7	5.7	5.5
DLFPS-236/3542	6.3	5.3	4.7	6.0	5.7	5.4
PPG-PR 370	6.3	5.0	4.7	6.0	6.0	5.4
SLUGGER 3GL (PPG-PR 343)	6.7	5.0	5.0	6.0	5.7	5.4
BAR LP 6164	5.7	4.7	5.0	5.7	6.0	5.3
DLFPS-236/3538	7.0	5.0	5.0	6.0	5.3	5.3
DLFPS-236/3550	6.3	5.3	4.7	5.3	5.7	5.3
EVOLVE	5.3	5.3	4.3	6.0	5.3	5.3
HATRICK (BSP-17)	5.3	5.3	5.0	6.0	5.0	5.3
PPG-PR 372	6.7	5.0	4.7	5.7	6.0	5.3
PST-2GTD	5.7	5.3	4.7	6.3	5.0	5.3
PST-2MAY	6.7	5.3	4.0	6.0	6.0	5.3
SEABISCUIT	6.7	5.0	4.7	5.7	5.7	5.3
SPIKE GLS (UF3)	6.7	5.3	4.7	5.7	5.3	5.3
APR2616	7.0	5.3	4.7	5.3	5.3	5.2
DLFPS-236/3547	7.0	4.7	4.7	5.3	6.0	5.2
SUPERSTAR GL (PPG-PR 420)	7.7	5.7	4.7	5.0	5.3	5.2
PPG-PR 422	6.0	5.0	4.7	5.3	5.7	5.2
PPG-PR 423	5.7	4.7	4.7	5.7	5.7	5.2
UMPQUA	6.0	4.7	4.3	5.7	6.0	5.2
XCELERATOR	6.7	5.3	4.7	5.7	5.0	5.2
GRAY WOLF (PST-2GAL)	6.7	5.3	4.0	5.3	5.7	5.1
HOMERUN LS (PPG-PR 419)	5.7	4.7	4.3	5.7	5.7	5.1
NP-2	6.3	4.7	4.3	5.3	6.0	5.1

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLLEGE PARK, MD 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	RED THREAD	QUALITY RATINGS				MEAN
		MAY	JUL	SEP	OCT	
STELLAR 4GL (PPG-PR 424)	6.7	4.3	4.3	5.7	6.0	5.1
PR-6-15	7.0	5.7	4.7	4.7	5.3	5.1
SLIDER LS (PPG-PR 241)	6.7	5.3	4.3	5.3	5.3	5.1
ASP0218 (A-6D)	7.0	5.0	4.3	5.3	5.3	5.0
BELIZE 2 (GO-142)	6.0	4.7	4.7	5.7	5.0	5.0
ASP0117 (A-PR15)	5.3	4.3	4.7	5.3	5.3	4.9
ASP0118GL (A-4G)	5.7	5.0	4.3	5.0	5.3	4.9
DLFPS-236/3540	6.7	5.0	4.0	5.3	5.3	4.9
DLFPS-236/3546	7.0	5.0	4.3	4.7	5.7	4.9
NP-3	5.7	4.7	4.3	5.0	5.7	4.9
PHARAOH	5.7	4.3	4.3	5.3	5.7	4.9
SILVER SPORT (PST-2CRP)	7.3	5.0	4.0	4.7	6.0	4.9
BAR LP 6117	6.3	5.0	4.7	5.3	4.0	4.8
BAR LP 6233	7.3	5.0	4.0	5.3	4.7	4.8
DLFPS-236/3553	6.7	4.7	4.3	4.7	5.7	4.8
MRS�-PR16	6.0	5.3	4.3	5.0	4.7	4.8
PR-5-16	7.3	5.0	4.3	4.7	5.3	4.8
SIGNET	7.0	5.0	4.0	5.3	5.0	4.8
TEE-ME-UP (BSP-25)	6.7	4.7	4.7	5.0	4.7	4.8
APR2612	5.3	4.3	4.7	4.7	5.0	4.7
ASP0116EXT	5.7	4.3	4.3	5.3	4.7	4.7
BAR LP 6159	5.0	4.0	4.0	5.7	5.0	4.7
GRAY HAWK (PST-2FIND)	4.0	3.7	4.0	5.7	5.3	4.7
MRS�-PR15	5.7	4.3	4.3	5.3	4.7	4.7
NEXUS GT (SNX)	5.0	4.7	4.7	4.7	4.7	4.7
PST-2A2	6.3	4.7	3.7	5.0	5.3	4.7
023	5.7	4.3	4.0	5.3	4.7	4.6
CS-6	6.3	4.3	4.0	5.0	5.0	4.6
JR-197	7.0	5.0	3.7	4.7	5.0	4.6
PST-2BDT	6.7	4.7	3.3	5.0	5.3	4.6
CAYMAN (GO-143)	5.3	4.7	4.0	4.3	5.0	4.5
FURLONG (LTP-FCB)	7.0	4.7	4.0	4.7	4.7	4.5
GREEN SUPREME+ (AMP-R1)	6.3	4.7	4.0	4.7	4.7	4.5
KARMA	6.3	4.3	4.0	5.3	4.3	4.5
MAN O WAR	6.0	4.3	3.7	4.3	5.7	4.5
OVERDRIVE 5G	5.0	4.0	3.7	5.3	5.0	4.5
RAD-PR 112	6.3	4.7	4.0	4.7	4.7	4.5
02BS1	6.0	4.7	3.7	4.7	4.7	4.4
BAR LP 6131	6.0	4.7	4.3	4.7	4.0	4.4
DLFPS-238/3014	6.0	4.3	4.3	5.0	4.0	4.4
PPG-PR 385	6.0	4.0	4.3	4.7	4.7	4.4
APR3060	5.3	4.3	4.3	4.3	4.0	4.3
BAR LP 6162	7.0	4.3	3.3	5.0	4.7	4.3
CPN	5.7	4.0	3.3	4.3	5.3	4.3
DERBY XTREME	6.7	4.3	3.7	4.3	4.7	4.3
FIREBALL (BWH)	6.7	4.0	4.0	5.0	4.3	4.3
PARADOX GLR (PPG-PR 331)	4.7	4.0	3.7	4.7	4.7	4.3

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLLEGE PARK, MD 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS					MEAN
	RED THREAD	MAY	JUL	SEP	OCT	
PARAGON 2 GLR (FP2)	6.7	4.3	4.0	4.3	4.7	4.3
BAR LP 6165	5.0	3.7	3.7	5.0	4.3	4.2
PST-2PDA	5.0	4.3	3.3	4.7	4.3	4.2
PEPPER II (RAD-PR 103)	7.0	4.3	3.3	4.3	4.3	4.1
BAR LP 6158	6.3	4.3	3.7	4.3	3.7	4.0
GO-141	6.7	4.0	3.7	4.3	4.0	4.0
SR 4650	7.0	4.3	3.3	4.0	4.0	3.9
SAGUARO	6.7	3.7	3.7	3.3	4.0	3.7
ALLSTAR III	6.0	3.7	3.0	3.7	4.0	3.6
LPB-SD-102	7.0	3.3	3.0	3.7	4.3	3.6
MENSA	8.3	3.0	3.0	4.0	3.7	3.4
JR-888	7.0	3.0	3.0	3.0	4.0	3.3
LPB-SD-101	7.0	3.0	3.0	3.3	4.0	3.3
LPB-SD-103	6.7	3.0	3.0	3.0	3.7	3.2
BRIGHTSTAR SLT	6.7	3.0	2.7	3.3	3.3	3.1
JR-747	7.3	3.0	2.7	2.7	3.3	2.9
LPB-SD-104	6.7	2.7	3.0	2.7	2.7	2.8
SAVANT	7.3	2.3	2.3	3.0	3.3	2.8
LPB-SD-105	7.7	2.0	2.3	2.3	3.0	2.4
LINN	9.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	2.0	1.0	1.2	1.4	1.1	0.9
C.V. (%)	14.8	13.4	16.5	17.3	13.4	11.8

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

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

TABLE 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS						MEAN
		MAY	JUN	JUL	AUG	SEP	OCT	
CPN	6.7	5.7	7.3	5.7	6.0	6.3	6.7	6.3
PL2	7.0	6.3	6.3	5.7	6.0	6.7	7.0	6.3
PPG-PR 372	5.7	5.7	7.3	6.3	6.0	6.3	6.0	6.3
DLFPS-236/3544	7.3	6.3	7.3	5.7	5.7	6.0	6.3	6.2
DLFPS-236/3546	7.0	5.0	7.0	5.7	6.3	6.7	6.7	6.2
FIESTA CINCO (DLFPS-236/3554)	5.7	6.0	7.3	6.3	6.0	5.7	6.0	6.2
PARADOX GLR (PPG-PR 331)	5.3	5.7	7.7	6.3	6.0	5.3	6.0	6.2
PPG-PR 367	7.0	5.3	5.7	5.7	6.0	7.0	7.0	6.1
UMPQUA	6.7	6.3	6.7	5.7	5.3	6.3	6.3	6.1
DLFPS-236/3556	6.3	5.0	7.0	5.3	6.3	6.0	6.3	6.0
STELLAR 4GL (PPG-PR 424)	6.3	5.0	6.7	5.7	5.3	6.0	7.3	6.0
PR-6-15	6.7	6.0	6.0	6.0	5.7	6.3	6.0	6.0
APPLE 3GL (PPG-PR 339)	5.7	5.7	7.0	5.0	6.0	6.3	5.7	5.9
NP-3	6.3	5.7	6.7	6.3	6.0	5.0	5.7	5.9
PPG-PR 423	6.0	5.7	6.7	5.7	6.0	5.7	5.7	5.9
SPIKE GLS (UF3)	6.0	4.7	6.7	5.3	5.7	6.3	6.7	5.9
ASP0117 (A-PR15)	6.3	5.7	7.0	6.7	5.3	4.7	5.7	5.8
LPB-SD-101	4.0	5.7	6.7	5.7	6.3	4.7	6.0	5.8
PARAGON 2 GLR (FP2)	7.7	5.7	7.0	5.3	5.7	5.0	6.0	5.8
PPG-PR 422	6.3	5.7	6.0	5.7	5.7	6.0	5.7	5.8
PR-5-16	4.7	5.3	7.0	5.3	5.7	5.7	5.7	5.8
SR 4650	7.0	6.7	6.3	5.7	5.3	5.7	5.3	5.8
02BS2	6.7	5.0	6.0	5.3	5.3	5.7	6.7	5.7
ALLSTAR FORE (DLFPS-236/3541)	6.0	5.0	7.0	5.7	5.7	5.0	5.7	5.7
DLFPS-236/3547	6.7	5.0	6.7	5.7	5.7	5.0	6.3	5.7
FURLONG (LTP-FCB)	7.0	4.0	6.0	5.7	5.3	6.0	7.0	5.7
JR-197	7.0	5.3	6.0	5.3	5.7	5.7	6.3	5.7
NP-2	6.7	5.0	5.7	5.7	6.0	5.7	6.0	5.7
OVERDRIVE 5G	5.3	5.0	6.0	6.3	5.7	5.3	6.0	5.7
SILVER SPORT (PST-2CRP)	7.0	5.3	6.0	5.7	5.0	6.3	5.7	5.7
SLUGGER 3GL (PPG-PR 343)	6.7	5.7	6.7	6.0	5.3	5.0	5.3	5.7
023	6.0	5.0	5.7	5.0	5.3	5.7	6.7	5.6
DLFPS-236/3538	4.7	6.3	6.7	5.3	5.0	5.0	5.0	5.6
DLFPS-236/3540	6.3	5.3	6.3	5.7	6.0	5.3	5.0	5.6
SAGUARO	5.0	5.3	7.0	5.7	5.3	4.7	5.3	5.6
XCELERATOR	5.3	4.7	6.0	5.7	5.3	6.0	5.7	5.6
CS-6	6.3	6.0	6.7	5.0	5.0	5.3	4.7	5.4
DLFPS-236/3548	5.3	5.0	6.3	5.7	5.7	4.7	5.0	5.4
DLFPS-236/3550	5.3	6.0	6.3	5.3	5.0	4.7	5.0	5.4
DLFPS-236/3553	7.0	4.3	6.0	5.0	5.3	5.7	6.0	5.4
FASTBALL 3GL (PPG-PR 329)	6.7	5.3	6.3	4.7	5.3	5.7	5.3	5.4
HOMERUN LS (PPG-PR 419)	6.0	5.0	6.0	5.0	5.0	5.7	5.7	5.4
JR-888	4.3	4.7	6.3	5.7	5.3	5.0	5.7	5.4
SUPERSTAR GL (PPG-PR 420)	6.3	5.0	6.7	5.7	5.0	5.0	5.3	5.4
PST-2A2	6.0	5.3	6.3	5.0	5.0	5.3	5.7	5.4
SLIDER LS (PPG-PR 241)	6.0	5.7	6.3	5.0	5.0	5.0	5.3	5.4
ALLOY (RRT)	5.7	5.7	6.7	5.7	4.7	5.0	4.3	5.3

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		MAY	JUN	JUL	AUG	SEP	OCT		
APR2616	6.0	6.0	7.0	5.3	5.0	4.0	4.3	5.3	
SR 4700 (DLFPS-236/3543)	5.0	5.3	6.3	5.0	5.0	5.3	5.0	5.3	
PST-2FOXY	6.3	5.3	6.0	5.0	5.0	5.0	5.3	5.3	
021	6.0	5.3	5.3	5.3	4.7	5.0	5.3	5.2	
GRAY HAWK (PST-2FIND)	5.7	5.0	6.0	5.0	4.7	5.3	5.0	5.2	
KARMA	6.0	5.0	5.7	5.0	5.3	5.0	5.0	5.2	
LPB-SD-103	5.0	3.7	6.3	5.7	5.7	4.7	5.3	5.2	
PPG-PR 360	6.3	4.7	6.0	5.7	5.3	4.7	5.0	5.2	
PPG-PR 370	6.0	4.3	5.3	5.0	6.0	5.3	5.3	5.2	
PPG-PR 421	6.3	4.7	6.3	5.0	5.0	5.0	5.3	5.2	
GRAND SLAM GLD	5.7	5.0	5.7	5.0	5.0	5.0	5.0	5.1	
SHIELD (02BS4)	5.0	4.0	6.0	5.3	5.3	5.0	5.0	5.1	
DERBY XTREME	5.3	5.7	6.3	4.7	4.7	4.0	4.7	5.0	
JR-123	6.0	4.3	5.3	4.7	5.3	4.7	5.7	5.0	
ASP0116EXT	7.7	5.7	6.0	5.0	4.7	4.0	4.3	4.9	
DLFPS-236/3545	6.7	5.0	5.3	5.0	4.7	4.3	5.3	4.9	
GO-141	5.3	6.0	6.0	4.3	4.7	4.0	4.3	4.9	
LPB-SD-102	5.0	4.0	6.7	4.7	5.0	4.3	5.0	4.9	
MAN O WAR	7.7	5.0	5.0	4.7	4.7	5.0	5.3	4.9	
PST-2BDT	6.7	5.0	6.0	5.0	4.3	4.7	4.7	4.9	
PST-2GTD	5.7	4.7	6.0	5.3	5.0	4.3	4.0	4.9	
SIGNET	5.7	4.3	5.7	5.7	4.7	4.3	4.7	4.9	
APR3060	5.7	5.3	5.7	5.0	4.3	4.0	4.7	4.8	
BAR LP 6233	4.0	4.0	4.7	5.7	5.3	4.0	5.0	4.8	
MENSA	6.0	3.7	5.3	5.3	4.7	4.7	5.0	4.8	
PPG-PR 385	5.3	5.0	6.0	5.0	4.3	4.3	4.3	4.8	
PST-2EGAD	5.7	5.3	5.7	4.7	4.3	4.3	4.3	4.8	
PST-2MAY	6.0	4.7	6.0	5.0	4.3	4.0	5.0	4.8	
SEABISCUIT	6.0	4.3	5.3	4.3	5.0	4.7	5.0	4.8	
02BS1	7.0	4.3	5.0	4.3	4.7	4.7	5.3	4.7	
ASP0118GL (A-4G)	6.0	5.0	5.7	5.0	4.3	4.3	4.0	4.7	
BAR LP 6159	4.7	5.7	5.7	4.3	4.3	3.7	4.7	4.7	
BAR LP 6164	4.7	4.3	5.3	4.7	4.7	4.7	4.3	4.7	
LPB-SD-105	5.0	3.7	4.3	5.0	5.0	4.7	5.3	4.7	
MRSL-PR16	6.7	4.7	5.7	4.7	4.7	4.0	4.7	4.7	
BAR LP 6131	4.3	5.7	5.3	4.3	4.3	3.7	4.3	4.6	
DLFPS-236/3552	5.7	5.0	5.7	5.0	4.0	3.7	4.3	4.6	
PHARAOH	6.3	4.3	4.7	4.7	4.3	4.7	5.0	4.6	
PST-2PDA	5.3	5.3	5.7	4.3	4.0	3.7	4.3	4.6	
BAR LP 6117	4.7	5.3	5.7	5.0	4.0	3.3	3.7	4.5	
BRIGHTSTAR SLT	4.7	5.0	6.0	4.3	4.0	3.3	3.7	4.4	
DLFPS-236/3542	6.3	4.3	5.3	4.3	4.3	4.3	4.0	4.4	
EVOLVE	6.0	4.3	5.3	4.7	4.3	3.3	4.3	4.4	
GRAY WOLF (PST-2GAL)	5.3	4.7	5.0	4.3	4.0	4.3	4.0	4.4	
GREEN SUPREME+ (AMP-R1)	6.7	4.3	5.0	4.7	4.0	3.7	4.7	4.4	
INTENSE	6.3	4.0	5.3	4.3	4.3	4.0	4.3	4.4	
PPG-PR 371	6.7	4.7	5.3	4.3	4.3	3.7	4.3	4.4	

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS						MEAN
		MAY	JUN	JUL	AUG	SEP	OCT	
ASPO218 (A-6D)	6.3	5.0	5.0	4.7	4.0	3.7	3.7	4.3
BELIZE 2 (GO-142)	5.3	4.7	5.3	4.3	3.7	4.0	3.7	4.3
BAR LP 6158	4.3	4.3	5.0	3.7	4.3	4.0	3.7	4.2
HATRICK (BSP-17)	7.0	4.3	5.0	4.0	4.0	3.7	3.7	4.1
JR-747	5.0	3.7	4.7	5.0	4.3	3.3	3.7	4.1
SAVANT	4.7	3.0	4.3	5.0	4.3	3.7	4.3	4.1
MRS�-PR15	6.7	4.3	5.0	4.3	3.7	3.3	3.3	4.0
NEXUS GT (SNX)	6.7	4.3	5.0	4.0	3.3	3.7	3.7	4.0
APR2612	6.7	3.7	4.7	4.0	4.0	3.7	3.7	3.9
BAR LP 6165	2.7	4.0	4.7	4.0	3.7	3.7	3.7	3.9
RAD-PR 112	7.7	4.3	4.7	3.3	3.7	3.7	3.7	3.9
CAYMAN (GO-143)	6.3	4.7	4.7	4.3	3.3	3.0	3.0	3.8
ALLSTAR III	6.3	3.7	4.7	3.7	3.7	3.3	3.3	3.7
FIREBALL (BWH)	8.0	4.3	4.3	3.7	3.7	3.0	3.0	3.7
LPB-SD-104	5.7	2.7	3.7	4.0	4.0	4.0	3.7	3.7
PEPPER II (RAD-PR 103)	5.7	4.3	4.7	3.3	3.3	3.0	2.7	3.6
TEE-ME-UP (BSP-25)	6.7	3.3	4.3	3.7	3.0	3.3	2.7	3.4
DLFPS-238/3014	4.7	3.3	4.0	3.3	3.0	3.0	3.0	3.3
BAR LP 6162	2.7	2.7	3.0	2.3	1.3	1.0	1.0	1.9
LINN	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	1.1	2.2	2.7	2.1	1.8	1.8	1.6	1.6
C.V. (%)	12.2	22.1	21.7	20.4	20.7	22.3	20.3	18.0

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 9.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
 2019 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER			QUALITY RATINGS					MEAN
	SPRING	APR	MAY	JUN	JUL	AUG	SEP		
DLFPS-236/3538	81.7	6.3	6.3	6.0	6.3	6.7	6.3	6.3	
PPG-PR 371	78.3	5.0	5.7	6.3	6.3	6.7	6.3	6.1	
SUPERSTAR GL (PPG-PR 420)	70.0	5.0	5.7	6.0	6.0	6.0	6.0	5.8	
DLFPS-236/3546	71.7	5.0	5.0	6.0	6.0	6.0	6.0	5.7	
FASTBALL 3GL (PPG-PR 329)	78.3	5.7	5.7	6.0	5.7	5.3	5.3	5.6	
NP-3	80.0	5.7	5.3	6.3	5.7	5.3	5.0	5.6	
PL2	75.0	5.3	5.7	5.7	5.7	6.0	5.0	5.6	
FIESTA CINCO (DLFPS-236/3554)	70.0	5.3	5.3	6.0	5.3	6.0	5.0	5.5	
FURLONG (LTP-FCB)	80.0	5.7	5.7	5.7	5.3	5.3	5.3	5.5	
APPLE 3GL (PPG-PR 339)	78.3	6.0	6.0	5.7	5.3	5.0	4.3	5.4	
DLFPS-236/3548	76.7	5.7	5.7	5.7	5.3	5.7	4.7	5.4	
DLFPS-236/3552	81.7	6.0	5.3	6.0	5.7	5.0	4.7	5.4	
DLFPS-238/3014	80.0	5.7	5.3	6.0	5.7	5.0	4.7	5.4	
PPG-PR 421	73.3	5.7	5.3	5.7	5.3	5.3	5.3	5.4	
02BS2	80.0	5.7	5.3	5.3	5.0	5.3	5.0	5.3	
SEABISCUIT	78.3	5.7	5.3	5.7	4.7	5.7	5.0	5.3	
SHIELD (02BS4)	73.3	5.3	5.0	5.3	5.7	5.7	4.7	5.3	
SPIKE GLS (UF3)	78.3	5.7	5.7	5.7	5.3	5.0	4.3	5.3	
ASP0218 (A-6D)	70.0	5.3	5.0	5.3	5.3	5.3	5.0	5.2	
ALLOY (RRT)	66.7	5.0	5.0	5.0	5.3	5.3	5.0	5.1	
GRAY WOLF (PST-2GAL)	73.3	5.3	5.0	5.0	5.0	5.0	5.0	5.1	
PARAGON 2 GLR (FP2)	66.7	4.7	4.7	5.3	5.0	5.3	5.3	5.1	
PEPPER II (RAD-PR 103)	73.3	5.0	5.3	5.0	5.3	4.7	5.0	5.1	
PPG-PR 370	75.0	5.3	5.3	4.7	5.0	5.0	5.0	5.1	
PPG-PR 385	70.0	5.0	4.7	5.0	5.3	5.3	5.0	5.1	
PPG-PR 422	75.0	5.3	5.0	5.0	5.3	5.3	4.3	5.1	
PR-5-16	78.3	5.7	5.3	5.0	4.3	5.0	5.0	5.1	
BAR LP 6117	80.0	5.7	5.0	5.3	4.7	4.7	4.7	5.0	
BAR LP 6158	73.3	5.3	5.3	5.0	5.0	5.0	4.3	5.0	
BAR LP 6159	78.3	5.7	5.0	5.3	4.7	5.0	4.3	5.0	
DLFPS-236/3553	61.7	4.3	5.0	4.7	5.3	5.3	5.3	5.0	
JR-123	71.7	5.0	5.3	5.0	5.0	5.0	4.7	5.0	
PST-2FOXY	65.0	4.7	5.0	5.3	5.0	5.3	4.7	5.0	
APR3060	75.0	5.0	4.7	5.3	5.0	5.0	4.3	4.9	
BAR LP 6233	76.7	5.0	5.0	4.7	4.7	5.0	5.0	4.9	
CAYMAN (GO-143)	66.7	4.7	5.0	4.7	5.0	5.3	4.7	4.9	
PPG-PR 372	65.0	4.3	5.0	5.0	5.0	5.0	5.0	4.9	
PPG-PR 423	68.3	5.0	5.3	5.3	5.3	4.7	4.0	4.9	
PST-2BDT	70.0	5.0	5.3	5.3	5.0	4.7	4.0	4.9	
PST-2MAY	78.3	5.7	5.0	5.3	4.7	4.7	4.3	4.9	
SLIDER LS (PPG-PR 241)	71.7	5.7	5.0	5.3	5.0	4.7	4.0	4.9	
XCELERATOR	68.3	5.0	4.7	5.0	5.0	5.3	4.7	4.9	
ASP0118GL (A-4G)	65.0	5.0	4.7	4.7	5.0	5.0	4.3	4.8	
BAR LP 6164	76.7	5.3	4.7	5.3	4.7	4.7	4.0	4.8	
DLFPS-236/3556	71.7	4.7	5.0	5.3	4.7	5.0	4.0	4.8	
HATRICK (BSP-17)	66.7	4.7	5.0	4.7	5.0	4.7	5.0	4.8	
HOMERUN LS (PPG-PR 419)	73.3	5.3	5.0	5.3	4.7	4.3	4.0	4.8	

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER			QUALITY RATINGS					MEAN
	SPRING	APR	MAY	JUN	JUL	AUG	SEP		
NEXUS GT (SNX)	68.3	4.3	5.3	5.3	4.7	4.7	4.7	4.8	
NP-2	68.3	5.0	5.0	5.0	5.0	4.7	4.3	4.8	
PPG-PR 360	63.3	4.7	4.7	5.0	5.0	5.0	4.7	4.8	
SLUGGER 3GL (PPG-PR 343)	73.3	5.3	5.3	5.3	4.7	4.3	4.0	4.8	
023	61.7	4.3	4.3	4.7	5.0	5.0	5.0	4.7	
CPN	68.3	5.0	5.0	5.0	5.0	4.3	3.7	4.7	
DLFPS-236/3544	73.3	5.0	4.7	5.0	4.7	4.7	4.3	4.7	
DLFPS-236/3545	78.3	5.7	5.0	5.0	4.7	4.0	4.0	4.7	
DLFPS-236/3547	63.3	4.3	4.7	4.7	4.7	5.0	4.7	4.7	
GREEN SUPREME+ (AMP-R1)	71.7	5.0	5.0	5.0	4.7	4.7	3.7	4.7	
MRS�-PR16	71.7	5.0	5.0	4.7	5.0	4.7	3.7	4.7	
PST-2GTD	68.3	5.0	4.7	5.3	4.7	4.7	4.0	4.7	
SILVER SPORT (PST-2CRP)	71.7	5.0	4.7	5.0	4.7	4.3	4.3	4.7	
APR2612	73.3	5.3	5.0	4.7	4.3	4.3	4.0	4.6	
BAR LP 6131	68.3	4.7	4.3	4.7	4.7	4.7	4.3	4.6	
BAR LP 6162	71.7	5.0	5.0	4.7	4.7	4.7	3.7	4.6	
DLFPS-236/3540	71.7	5.0	5.0	5.0	4.0	4.3	4.0	4.6	
SR 4700 (DLFPS-236/3543)	50.0	4.7	4.7	5.0	4.3	4.7	4.3	4.6	
FIREBALL (BWH)	68.3	4.7	4.7	4.7	4.7	4.7	4.0	4.6	
PARADOX GLR (PPG-PR 331)	68.3	5.0	4.7	4.7	4.7	4.3	4.0	4.6	
PPG-PR 367	65.0	4.7	4.3	4.7	4.7	4.7	4.7	4.6	
APR2616	61.7	4.7	4.7	4.7	4.3	4.7	4.0	4.5	
JR-197	63.3	4.7	4.7	4.3	5.0	4.3	4.0	4.5	
PHARAOH	61.7	4.3	4.3	4.7	4.3	5.0	4.3	4.5	
BAR LP 6165	63.3	4.3	4.7	4.7	4.3	4.3	4.0	4.4	
DLFPS-236/3550	65.0	4.3	4.7	5.0	4.7	4.3	3.3	4.4	
GRAND SLAM GLD	66.7	4.7	4.7	4.7	4.7	4.0	3.7	4.4	
SIGNET	63.3	4.3	4.7	4.7	4.7	4.7	3.7	4.4	
EVOLVE	68.3	5.3	5.3	4.7	4.0	3.7	3.0	4.3	
JR-888	65.0	4.3	4.3	4.7	4.3	4.3	4.0	4.3	
STELLAR 4GL (PPG-PR 424)	70.0	4.3	4.3	4.3	4.3	4.3	4.0	4.3	
PR-6-15	63.3	4.3	5.0	4.7	4.0	4.3	3.3	4.3	
ASP0117 (A-PR15)	65.0	4.3	4.3	4.3	4.0	4.3	4.0	4.2	
PST-2EGAD	63.3	4.3	3.7	4.3	4.7	4.3	4.0	4.2	
021	68.3	5.0	4.0	4.3	4.0	3.7	3.7	4.1	
BRIGHTSTAR SLT	66.7	4.3	4.3	4.3	4.3	4.0	3.3	4.1	
ALLSTAR FORE (DLFPS-236/3541)	66.7	4.7	4.3	4.3	3.7	3.7	3.7	4.1	
TEE-ME-UP (BSP-25)	60.0	4.3	4.0	4.0	4.0	4.3	4.0	4.1	
02BS1	65.0	4.7	4.0	4.0	4.0	3.7	3.0	3.9	
DLFPS-236/3542	58.3	3.7	4.0	4.3	4.3	4.0	3.3	3.9	
GRAY HAWK (PST-2FIND)	66.7	4.3	4.3	4.0	4.0	3.7	3.0	3.9	
KARMA	61.7	4.3	4.3	4.3	4.0	3.7	3.0	3.9	
MRS�-PR15	60.0	4.0	4.3	4.0	3.7	3.7	3.3	3.8	
OVERDRIVE 5G	55.0	4.0	4.0	4.0	3.7	3.7	3.3	3.8	
RAD-PR 112	56.7	4.0	4.0	4.0	4.0	3.7	3.3	3.8	
SAGUARO	55.0	3.7	4.0	4.3	3.7	3.7	3.3	3.8	
UMFQUA	56.7	4.0	3.7	4.0	4.0	4.0	3.3	3.8	

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND	QUALITY RATINGS							MEAN
	COVER SPRING	APR	MAY	JUN	JUL	AUG	SEP		
ALLSTAR III	58.3	4.3	3.7	3.7	3.7	3.7	3.3	3.7	
DERBY XTREME	61.7	4.0	3.7	3.7	3.3	3.7	3.3	3.6	
ASP0116EXT	53.3	3.7	4.0	3.7	3.3	3.0	3.3	3.5	
CS-6	60.0	4.0	3.7	3.7	3.3	3.3	3.0	3.5	
INTENSE	61.7	4.3	3.7	4.3	3.7	3.0	2.0	3.5	
SR 4650	51.7	3.7	4.7	3.3	3.7	3.0	2.7	3.5	
BELIZE 2 (GO-142)	56.7	4.0	3.7	3.3	3.3	3.3	3.0	3.4	
LPB-SD-105	45.0	3.3	3.7	4.0	3.3	3.0	3.0	3.4	
SAVANT	53.3	3.7	3.7	4.0	3.3	3.0	2.7	3.4	
PST-2PDA	45.0	3.3	3.3	3.7	3.3	3.3	2.7	3.3	
MAN O WAR	43.3	3.0	3.3	3.0	3.3	3.3	3.0	3.2	
MENSA	51.7	3.7	3.7	3.7	3.3	2.7	2.3	3.2	
GO-141	48.3	3.3	3.0	3.0	2.7	3.0	2.7	2.9	
JR-747	46.7	3.3	3.3	3.0	2.7	2.7	2.7	2.9	
PST-2A2	46.7	3.0	3.0	3.3	3.0	2.7	2.7	2.9	
LINN	51.7	2.7	3.0	3.0	2.7	2.7	2.3	2.7	
LPB-SD-101	35.0	2.7	2.7	2.7	2.3	2.7	2.3	2.6	
LPB-SD-102	31.7	2.3	2.3	2.3	2.3	2.0	2.0	2.2	
LPB-SD-103	33.3	2.7	2.7	2.3	1.7	1.3	1.3	2.0	
LPB-SD-104	20.0	1.7	2.0	2.0	1.7	1.7	1.3	1.7	
LSD VALUE	23.1	1.9	1.8	1.8	1.7	2.0	2.1	1.6	
C.V. (%)	18.9	21.3	20.3	20.4	21.4	24.5	27.3	19.7	

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 10.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 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		
PPG-PR 421	6.0	5.0	5.3	5.3	6.0	4.7	5.0	5.3	6.0	5.4	
PST-2EGAD	6.0	4.7	5.0	4.3	6.0	5.0	5.3	6.0	6.0	5.4	
DLFPS-236/3552	6.0	4.3	5.0	5.3	5.7	4.7	5.0	5.7	6.0	5.3	
FASTBALL 3GL (PPG-PR 329)	6.0	5.3	5.0	5.0	5.7	5.0	5.0	5.7	6.0	5.3	
FURLONG (LTP-FCB)	5.0	4.0	4.7	5.3	6.0	5.0	5.0	5.0	6.0	5.3	
HOMERUN LS (PPG-PR 419)	6.0	4.3	5.0	5.3	5.3	5.0	5.0	5.7	6.0	5.3	
JR-197	6.0	4.3	5.0	5.3	5.7	4.7	5.3	5.3	6.0	5.3	
SUPERSTAR GL (PPG-PR 420)	6.0	4.7	5.0	5.0	5.7	5.0	5.0	5.3	6.0	5.3	
PPG-PR 423	6.0	5.0	5.0	5.0	5.3	5.0	5.0	5.7	6.0	5.3	
PR-5-16	5.7	4.0	5.0	5.0	5.0	5.0	5.3	5.7	6.0	5.3	
PR-6-15	6.0	4.0	5.0	5.3	6.0	4.7	5.0	5.3	6.0	5.3	
PST-2GTD	6.0	4.7	5.0	5.3	5.3	5.0	5.0	5.7	6.0	5.3	
SILVER SPORT (PST-2CRP)	6.0	4.3	5.0	5.0	6.0	5.0	5.0	5.3	6.0	5.3	
SLIDER LS (PPG-PR 241)	6.0	5.0	5.0	5.3	5.7	5.0	5.0	5.0	6.0	5.3	
BAR LP 6233	4.7	4.3	4.7	4.7	5.7	5.0	5.0	5.3	6.0	5.2	
CFN	5.7	4.7	5.0	5.0	4.7	5.0	5.3	5.3	6.0	5.2	
DLFPS-236/3540	6.0	5.0	5.0	5.3	5.3	4.7	5.0	5.0	6.0	5.2	
DLFPS-236/3544	5.7	4.0	4.7	5.0	5.3	5.0	5.0	5.3	6.0	5.2	
DLFPS-236/3545	6.0	5.0	5.0	5.3	5.3	4.7	5.0	5.3	6.0	5.2	
FIESTA CINCO (DLFPS-236/3554)	6.0	4.3	5.0	5.0	5.3	4.3	5.0	6.0	6.0	5.2	
OVERDRIVE 5G	5.3	4.7	5.0	5.3	5.3	5.0	5.0	5.0	6.0	5.2	
PPG-PR 367	5.7	4.0	5.0	4.7	5.3	5.0	5.0	5.3	6.0	5.2	
PPG-PR 370	6.3	4.7	5.0	4.7	5.7	5.0	5.0	5.3	6.0	5.2	
PPG-PR 372	6.0	4.3	5.0	5.0	5.3	5.0	5.0	5.3	6.0	5.2	
PPG-PR 422	6.0	5.3	5.0	4.7	5.3	4.7	5.3	5.7	6.0	5.2	
02BS2	5.7	4.3	4.7	4.7	5.3	5.0	5.0	5.3	6.0	5.1	
APPLE 3GL (PPG-PR 339)	6.0	4.3	4.7	4.7	5.3	5.0	5.0	5.0	6.0	5.1	
APR2616	6.3	4.7	4.7	5.0	5.7	4.7	5.0	5.0	5.7	5.1	
APR3060	6.0	4.3	5.0	5.0	5.3	4.3	5.0	5.0	6.0	5.1	
BAR LP 6164	5.7	4.3	5.0	5.0	5.3	4.3	5.0	5.3	6.0	5.1	
DERBY XTREME	6.0	4.3	4.7	4.7	4.7	5.0	5.0	5.7	6.0	5.1	
DLFPS-236/3542	6.0	4.3	5.0	5.3	5.3	4.3	5.0	5.0	6.0	5.1	
SR 4700 (DLFPS-236/3543)	5.7	4.3	5.0	4.7	5.0	4.7	5.0	5.7	5.7	5.1	
DLFPS-236/3550	6.0	4.0	5.0	5.0	5.7	4.3	5.0	5.0	6.0	5.1	
DLFPS-236/3556	5.3	4.0	5.0	5.3	5.7	4.7	4.7	5.0	5.7	5.1	
GRAY HAWK (PST-2FIND)	6.0	4.7	5.3	4.7	4.7	5.0	5.0	5.0	6.0	5.1	
GRAY WOLF (PST-2GAL)	6.0	4.3	5.0	4.7	5.3	4.7	4.7	5.3	6.0	5.1	
KARMA	6.0	4.0	4.7	4.7	5.7	4.3	5.0	5.3	6.0	5.1	
NP-2	5.7	4.7	5.0	5.0	5.7	4.3	4.3	5.7	6.0	5.1	
PARADOX GLR (PPG-PR 331)	5.7	4.7	5.0	4.7	5.3	4.7	5.0	5.0	6.0	5.1	
PHARAOH	6.0	4.0	5.0	4.3	5.0	4.7	5.0	5.7	6.0	5.1	
PL2	6.0	4.3	5.0	5.0	5.3	4.7	5.0	5.0	6.0	5.1	
PPG-PR 360	6.0	4.7	5.0	4.7	5.3	4.7	5.0	5.3	5.7	5.1	
PPG-PR 371	5.7	4.7	5.0	5.3	5.7	4.3	4.7	5.0	6.0	5.1	
STELLAR 4GL (PPG-PR 424)	5.7	4.7	5.0	4.7	5.7	4.7	5.0	5.0	6.0	5.1	
PST-2BDT	6.0	4.3	4.7	4.7	5.7	4.3	5.0	5.3	6.0	5.1	
PST-2FOXY	6.0	4.0	4.7	4.3	5.7	4.7	5.0	5.7	6.0	5.1	

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 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	
SR 4650	6.0	4.0	4.7	4.7	5.3	4.7	4.7	5.7	6.0	5.1
02BS1	6.3	4.7	4.7	4.7	5.0	4.3	5.0	5.3	6.0	5.0
ALLSTAR III	6.0	4.0	5.0	4.7	5.0	4.7	4.7	5.3	5.7	5.0
BAR LP 6117	6.0	4.0	4.7	4.0	5.3	4.7	5.0	5.0	6.0	5.0
BAR LP 6131	4.7	4.3	5.0	4.3	4.7	4.7	4.7	5.3	6.0	5.0
BAR LP 6159	5.7	4.0	4.7	4.0	5.0	4.7	5.0	5.7	6.0	5.0
BAR LP 6165	4.0	3.7	4.7	4.7	5.0	4.3	4.7	5.7	6.0	5.0
ALLSTAR FORE (DLFPS-236/3541)	6.0	4.0	4.7	4.3	4.7	5.0	5.0	5.0	6.0	5.0
DLFPS-236/3547	6.0	4.3	5.0	4.7	5.3	4.7	4.7	5.0	5.7	5.0
DLFPS-236/3548	6.0	4.0	4.7	4.0	5.0	5.0	5.0	5.0	6.0	5.0
DLFPS-236/3553	6.0	4.3	5.0	4.3	5.0	4.7	5.0	5.0	5.7	5.0
GRAND SLAM GLD	6.0	4.7	5.0	4.7	4.7	4.0	5.0	5.3	6.0	5.0
INTENSE	6.0	4.3	4.7	4.7	5.0	4.3	4.3	5.7	6.0	5.0
JR-747	5.7	4.0	5.0	4.7	4.7	4.7	5.0	5.0	6.0	5.0
PARAGON 2 GLR (FP2)	6.0	4.3	5.0	5.0	5.3	4.0	4.7	4.7	6.0	5.0
PPG-PR 385	5.0	4.0	4.7	4.3	5.0	4.7	5.0	5.3	6.0	5.0
PST-2PDA	5.3	4.3	4.7	4.7	5.3	4.3	4.7	5.3	5.7	5.0
SEABISCUIT	6.0	4.3	4.7	4.3	5.0	4.7	5.0	5.0	6.0	5.0
SHIELD (02BS4)	5.3	4.3	5.0	4.7	5.7	4.0	4.7	4.7	6.0	5.0
SIGNET	5.3	4.7	4.7	5.0	5.0	4.7	4.7	5.3	6.0	5.0
SPIKE GLS (UF3)	6.0	4.3	4.7	4.0	5.7	4.7	4.7	5.3	5.7	5.0
UMPQUA	6.0	4.3	4.3	4.3	5.3	5.0	5.0	5.0	6.0	5.0
021	5.3	4.3	5.0	4.0	4.3	4.3	4.7	5.7	6.0	4.9
ALLOY (RRT)	6.0	4.7	4.7	4.7	5.3	4.0	4.3	5.0	6.0	4.9
ASP0117 (A-PR15)	6.0	4.3	4.3	4.3	5.0	4.3	4.7	5.3	6.0	4.9
BELIZE 2 (GO-142)	6.0	4.3	4.7	4.7	4.0	4.7	5.0	5.3	6.0	4.9
DLFPS-236/3538	5.7	4.0	4.7	4.3	5.0	4.3	5.0	5.0	6.0	4.9
EVOLVE	5.7	4.7	5.0	4.3	5.3	4.0	4.7	4.7	6.0	4.9
JR-888	4.7	4.7	5.0	4.7	4.0	4.7	4.7	5.0	6.0	4.9
LPB-SD-103	6.0	4.3	4.7	4.7	4.3	4.7	4.7	5.3	6.0	4.9
LPB-SD-104	6.0	4.3	4.3	4.3	4.3	4.7	5.0	5.7	6.0	4.9
LPB-SD-105	5.7	4.3	4.3	4.0	4.3	5.3	5.0	5.3	6.0	4.9
MRSL-PR15	6.7	4.0	4.3	4.3	4.3	4.7	4.7	5.7	6.0	4.9
PST-2A2	5.7	4.0	4.7	4.3	4.7	4.7	5.0	5.3	5.7	4.9
PST-2MAY	6.0	4.0	4.3	4.3	5.3	4.7	4.7	5.0	6.0	4.9
SAGUARO	5.7	4.7	4.7	4.3	4.3	4.7	5.0	5.7	5.7	4.9
SLUGGER 3GL (PPG-PR 343)	6.0	4.0	4.3	4.3	5.0	4.7	5.0	5.3	5.7	4.9
023	5.3	4.3	4.7	4.3	4.7	4.3	4.7	5.0	6.0	4.8
APR2612	6.0	4.0	4.3	4.3	4.7	4.3	4.3	5.3	6.0	4.8
BRIGHTSTAR SLT	5.3	4.0	4.7	4.3	4.3	4.0	5.0	5.0	6.0	4.8
DLFPS-236/3546	6.0	4.0	4.7	4.7	5.0	4.0	4.7	4.7	6.0	4.8
JR-123	6.0	3.7	4.7	4.3	4.7	4.3	4.7	5.0	5.7	4.8
LPB-SD-101	5.3	4.3	5.0	4.7	4.0	4.0	4.7	5.3	6.0	4.8
NP-3	5.7	4.0	4.7	4.0	4.3	4.3	4.7	5.7	6.0	4.8
SAVANT	4.7	4.3	4.7	4.0	4.0	4.7	5.0	5.3	6.0	4.8
XCELERATOR	5.7	4.3	4.7	4.7	5.3	4.0	4.7	4.7	5.7	4.8
ASP0118GL (A-4G)	6.0	4.3	4.3	3.7	4.7	4.3	4.7	5.7	5.7	4.7

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 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	
ASP0218 (A-6D)	6.0	4.3	4.7	4.0	4.3	4.0	4.7	5.0	6.0	4.7
CAYMAN (GO-143)	6.7	4.7	4.7	4.7	4.3	4.0	4.7	4.7	5.7	4.7
FIREBALL (BWH)	7.0	3.7	4.3	3.7	4.7	4.7	4.3	5.0	6.0	4.7
GO-141	6.0	4.3	4.7	4.3	4.7	4.0	4.3	5.0	5.7	4.7
LPB-SD-102	5.7	5.3	5.0	5.0	4.7	4.0	4.3	4.3	5.7	4.7
MAN O WAR	5.7	4.0	4.7	4.0	4.0	4.7	4.7	5.0	6.0	4.7
MENSA	5.7	4.3	5.0	5.0	4.3	4.3	4.0	4.7	5.7	4.7
BAR LP 6158	5.7	4.0	4.3	4.0	4.3	4.3	4.7	5.0	5.7	4.6
CS-6	6.3	4.0	4.3	3.7	3.7	4.3	4.7	5.7	5.7	4.6
MRS�-PR16	6.3	4.0	4.3	4.0	4.0	4.3	4.3	5.0	6.0	4.6
NEXUS GT (SNX)	6.0	4.0	4.3	3.7	4.0	4.7	4.3	5.3	6.0	4.6
ASP0116EXT	7.0	4.3	4.3	3.7	4.0	4.3	4.3	5.0	5.7	4.5
BAR LP 6162	6.0	4.0	3.7	3.7	4.3	4.3	4.7	5.0	5.7	4.5
PEPPER II (RAD-PR 103)	6.3	4.0	4.7	3.7	4.0	4.3	4.3	4.7	5.7	4.5
TEE-ME-UP (BSP-25)	6.7	3.3	4.0	3.3	4.0	4.0	4.3	5.7	5.7	4.4
HATRICK (BSP-17)	7.0	3.7	4.3	3.3	4.0	4.7	4.3	4.3	5.3	4.3
RAD-PR 112	6.0	3.7	4.0	3.7	3.7	4.0	4.3	5.0	5.3	4.3
DLFPS-238/3014	5.7	4.0	3.7	3.3	4.0	4.0	4.0	5.0	5.3	4.2
GREEN SUPREME+ (AMP-R1)	6.3	4.0	4.0	3.0	3.7	4.0	4.0	4.7	5.0	4.0
LINN	5.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.1
LSD VALUE	0.6	1.2	1.0	0.9	1.1	1.0	0.9	1.9	0.6	0.4
C.V. (%)	6.7	12.1	9.6	11.6	12.6	10.0	9.0	11.6	5.0	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 11.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS								
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
FURLONG (LTP-FCB)	7.7	6.7	7.7	8.3	7.7	6.7	4.7	7.7	7.7	7.1
DLFPS-236/3547	8.3	7.3	6.3	7.3	7.0	5.3	7.0	7.0	6.7	6.8
JR-197	7.7	6.7	8.0	6.7	6.0	5.3	6.7	7.0	7.7	6.8
SLUGGER 3GL (PPG-PR 343)	8.3	5.3	6.7	7.7	7.0	6.3	6.3	7.7	7.3	6.8
SR 4700 (DLFPS-236/3543)	6.3	5.7	6.7	7.0	6.0	6.3	7.0	7.0	7.3	6.6
PPG-PR 421	7.0	6.7	7.3	7.7	7.3	5.0	5.3	7.0	6.3	6.6
ALLOY (RRT)	8.3	6.7	6.3	7.0	6.7	4.7	6.7	7.0	6.3	6.4
DLFPS-236/3553	6.7	6.3	7.0	6.7	6.7	6.3	5.0	7.0	6.3	6.4
ALLSTAR FORE (DLFPS-236/3541)	8.0	6.3	6.7	7.0	5.7	5.0	6.3	6.7	6.3	6.3
PL2	7.3	6.3	6.7	5.0	5.7	6.3	6.3	6.7	7.0	6.3
PPG-PR 423	8.3	6.7	6.7	7.0	6.0	5.3	6.0	6.7	6.3	6.3
FIESTA CINCO (DLFPS-236/3554)	6.7	5.3	6.3	6.7	5.7	6.7	6.7	6.0	6.3	6.2
PPG-PR 372	8.0	5.7	6.0	6.7	5.7	7.3	6.3	6.0	6.0	6.2
02BS2	7.3	6.3	6.3	5.3	5.0	5.7	6.7	7.3	6.3	6.1
DLFPS-236/3546	8.0	5.7	6.7	7.0	6.0	4.7	5.3	6.7	6.7	6.1
NP-2	7.7	6.3	5.3	5.7	6.0	4.7	6.0	7.0	7.7	6.1
OVERDRIVE 5G	8.3	6.0	7.0	6.0	5.3	6.0	7.0	5.7	5.7	6.1
PR-6-15	8.7	5.7	6.0	6.7	5.7	5.7	6.0	6.3	6.7	6.1
DLFPS-236/3542	7.7	5.7	6.7	7.3	5.7	5.7	5.7	5.3	5.7	6.0
DLFPS-236/3545	8.0	6.0	6.7	4.7	5.7	6.0	6.3	6.0	6.3	6.0
DLFPS-236/3552	6.3	5.7	6.3	6.7	5.3	4.7	7.3	6.3	5.3	6.0
PPG-PR 360	8.0	6.7	6.7	6.3	5.7	6.0	6.3	5.3	5.0	6.0
XCELERATOR	8.3	5.7	6.7	5.7	5.7	4.7	5.3	7.7	6.3	6.0
NP-3	7.7	6.7	6.0	5.0	5.7	4.7	6.7	6.3	6.0	5.9
STELLAR 4GL (PPG-PR 424)	7.7	6.0	6.7	5.7	5.0	4.7	5.3	6.7	7.0	5.9
SILVER SPORT (PST-2CRP)	7.7	5.7	5.7	5.0	6.0	5.7	6.0	6.7	6.3	5.9
SPIKE GLS (UF3)	7.7	6.0	5.3	5.7	6.0	5.7	6.7	6.0	5.7	5.9
UMPQUA	5.7	6.3	5.7	5.7	6.3	5.0	6.0	6.3	6.0	5.9
FASTBALL 3GL (PPG-PR 329)	7.3	6.0	5.3	5.3	5.3	5.3	5.7	7.0	6.3	5.8
GRAY WOLF (PST-2GAL)	7.7	7.0	6.3	5.7	5.0	3.7	5.7	6.3	6.3	5.8
INTENSE	8.0	6.7	5.7	5.3	5.7	5.0	6.7	5.3	6.3	5.8
PPG-PR 370	7.3	5.7	6.7	6.3	5.3	4.3	5.7	6.3	5.7	5.8
PPG-PR 371	8.3	6.7	6.3	5.7	5.3	5.0	4.7	6.3	6.0	5.8
SUPERSTAR GL (PPG-PR 420)	7.3	5.7	6.0	6.7	6.3	4.0	5.0	7.0	5.7	5.8
SIGNET	7.0	7.0	6.3	7.0	6.0	4.3	3.7	6.3	6.0	5.8
02BS1	8.0	5.7	6.3	5.3	5.0	4.7	4.7	6.7	7.3	5.7
PPG-PR 422	8.0	5.3	6.0	5.0	4.7	6.0	6.0	6.7	6.0	5.7
PST-2A2	8.0	6.3	6.7	6.0	4.3	5.7	5.7	5.7	5.0	5.7
SHIELD (02BS4)	7.7	6.0	6.3	5.3	4.3	4.7	6.0	6.3	6.3	5.7
DLFPS-236/3556	7.3	5.7	5.7	4.0	4.0	5.7	6.0	6.7	7.0	5.6
PR-5-16	6.3	5.3	6.3	6.0	5.7	5.0	5.7	5.0	6.0	5.6
023	7.0	7.0	5.7	5.0	4.0	5.0	5.7	6.0	6.0	5.5
APPLE 3GL (PPG-PR 339)	7.7	6.0	6.0	4.7	5.0	5.0	5.7	5.7	6.0	5.5
CPN	7.3	5.7	5.0	5.3	5.3	5.7	6.3	5.3	5.0	5.5
DLFPS-236/3538	5.7	4.3	7.0	5.7	4.7	5.0	5.3	6.0	5.7	5.5
PPG-PR 367	7.7	5.7	5.7	5.7	5.3	5.0	6.0	5.3	5.0	5.5
021	6.7	6.3	5.0	5.0	4.3	4.7	5.7	6.3	6.0	5.4

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2019 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS									MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
DLFPS-236/3544	8.3	6.3	5.3	5.0	5.3	4.7	5.0	5.7	5.7	5.4	
DLFPS-236/3548	6.7	4.7	5.7	5.3	5.3	4.7	5.7	6.3	5.3	5.4	
GRAND SLAM GLD	7.0	5.3	5.3	5.7	5.0	4.0	6.0	6.3	5.3	5.4	
PARAGON 2 GLR (FP2)	8.7	6.7	5.0	4.7	4.7	4.3	5.3	6.3	6.3	5.4	
DLFPS-236/3540	7.3	4.7	5.3	5.3	5.0	5.0	6.0	5.7	5.7	5.3	
PPG-PR 385	7.0	5.7	5.7	5.7	5.3	4.3	5.0	5.7	5.0	5.3	
SEABISCUIT	7.0	7.0	4.7	4.0	4.7	4.7	5.7	5.3	6.0	5.3	
DLFPS-236/3550	6.3	4.7	5.3	5.7	4.0	4.3	6.0	5.7	5.7	5.2	
HOMERUN LS (PPG-PR 419)	6.7	4.7	4.7	5.0	5.3	4.7	5.7	6.3	5.3	5.2	
PHARAOH	8.3	5.0	4.7	5.0	5.3	3.7	6.0	6.3	5.3	5.2	
PST-2GTD	7.0	6.3	4.7	5.0	4.7	4.3	5.7	6.3	4.3	5.2	
SR 4650	7.0	5.7	6.3	4.0	4.3	4.7	5.0	6.0	5.7	5.2	
MAN O WAR	7.7	5.3	5.3	4.3	5.3	4.7	5.3	6.0	4.7	5.1	
PST-2PDA	6.3	6.7	5.0	4.3	4.7	5.0	5.3	5.0	4.7	5.1	
APR2612	7.0	4.3	5.3	4.3	4.3	5.0	6.0	5.7	5.3	5.0	
APR2616	7.7	5.7	5.0	4.3	4.0	4.3	5.7	6.3	5.0	5.0	
ASPO117 (A-PR15)	8.0	5.0	4.7	5.3	5.3	5.0	4.7	5.3	4.3	5.0	
KARMA	5.0	4.7	7.0	5.7	4.0	4.3	4.7	4.7	5.0	5.0	
PST-2BDT	8.3	5.7	5.3	5.0	4.0	4.0	5.3	6.0	5.0	5.0	
PST-2MAY	6.0	5.7	5.0	5.0	4.7	3.7	5.3	5.3	5.3	5.0	
SLIDER LS (PPG-PR 241)	7.0	5.7	6.3	5.3	4.7	3.7	3.3	5.3	5.7	5.0	
GRAY HAWK (PST-2FIND)	7.3	6.0	5.3	4.0	4.0	3.7	5.7	5.3	5.0	4.9	
ASPO118GL (A-4G)	7.3	5.0	4.7	5.0	4.7	5.0	4.3	5.0	5.0	4.8	
BAR LP 6233	3.7	5.7	4.0	5.0	5.3	4.7	4.3	5.7	4.0	4.8	
JR-123	7.3	5.7	5.7	5.0	4.3	4.0	4.0	5.3	4.3	4.8	
MENSA	8.3	4.3	4.7	4.0	4.0	4.3	6.0	5.0	5.7	4.8	
PST-2FOXY	7.7	5.0	4.7	4.7	4.7	4.3	5.0	5.0	4.7	4.8	
APR3060	6.3	4.3	5.3	3.3	3.3	6.0	5.7	5.0	4.7	4.7	
BAR LP 6165	2.3	3.7	3.7	4.0	4.0	4.3	6.3	6.3	5.0	4.7	
LPB-SD-104	7.0	3.7	4.7	4.7	4.7	4.7	5.7	4.7	5.0	4.7	
PARADOX GLR (PPG-PR 331)	6.7	6.0	5.0	4.3	4.0	3.3	4.3	5.7	5.0	4.7	
LPB-SD-102	6.7	3.7	5.0	4.0	3.7	5.0	5.7	4.3	5.3	4.6	
BAR LP 6164	5.3	4.3	4.0	4.7	3.7	4.0	6.3	5.0	4.3	4.5	
DERBY XTREME	7.3	4.3	4.7	4.7	4.0	3.7	4.7	5.0	4.7	4.5	
EVOLVE	7.3	4.7	4.3	3.7	3.3	5.0	5.7	5.0	4.0	4.5	
MRS�-PR16	8.7	5.0	4.3	4.0	3.3	3.7	4.3	6.0	5.0	4.5	
PST-2EGAD	6.3	6.0	3.7	4.0	4.0	3.0	5.0	6.3	4.3	4.5	
BAR LP 6158	4.7	4.7	4.3	4.0	4.0	4.0	4.7	5.7	3.7	4.4	
LPB-SD-103	7.3	3.7	4.7	4.3	3.7	5.0	4.7	4.7	4.3	4.4	
MRS�-PR15	8.3	4.0	5.0	3.7	4.0	4.3	4.3	5.3	4.7	4.4	
BAR LP 6117	6.3	4.0	4.3	3.7	3.7	4.7	5.3	4.7	3.7	4.3	
JR-747	7.0	3.7	5.3	3.7	3.7	4.3	4.7	4.7	4.7	4.3	
SAGUARO	7.0	4.7	4.7	3.3	3.3	4.3	4.7	4.3	4.7	4.3	
SAVANT	4.7	4.7	5.0	4.3	3.7	3.7	3.3	5.0	4.7	4.3	
ALLSTAR III	8.0	4.7	4.0	4.3	4.0	3.7	3.7	4.7	4.7	4.2	
TEE-ME-UP (BSP-25)	8.0	4.3	3.7	4.0	3.7	4.7	4.3	4.7	4.3	4.2	
JR-888	4.3	3.7	3.7	4.0	4.0	4.0	3.7	5.3	4.7	4.1	

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2019 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS								MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
RAD-PR 112	8.7	4.3	4.0	3.7	3.7	3.3	4.3	5.3	4.0	4.1
BAR LP 6159	5.3	3.7	4.7	3.0	3.0	4.0	5.3	4.7	3.3	4.0
BELIZE 2 (GO-142)	6.7	4.0	4.0	3.0	3.3	4.0	4.3	4.7	4.3	4.0
CS-6	8.3	4.3	4.0	4.0	4.3	3.7	4.3	4.0	3.7	4.0
HATRICK (BSP-17)	7.3	4.7	3.7	3.7	3.7	3.7	3.7	3.7	4.3	3.9
LPB-SD-101	3.3	3.3	4.3	4.0	3.0	3.3	4.7	4.0	4.3	3.9
ASP0116EXT	9.0	4.3	4.0	3.0	3.3	3.3	4.3	4.3	4.0	3.8
GO-141	7.3	4.3	3.7	3.7	3.7	3.0	4.3	4.3	3.7	3.8
LPB-SD-105	6.3	3.3	4.0	3.3	3.3	4.0	4.0	4.0	4.3	3.8
ASP0218 (A-6D)	8.3	3.7	4.0	3.7	3.3	3.3	3.7	3.7	4.0	3.7
PEPPER II (RAD-PR 103)	7.0	4.0	3.7	4.0	3.7	3.0	4.0	3.7	3.3	3.7
GREEN SUPREME+ (AMP-R1)	7.3	4.0	3.7	3.0	2.7	3.7	4.0	4.3	3.7	3.6
NEXUS GT (SNX)	7.3	4.7	4.0	3.3	2.7	3.3	3.0	3.3	3.3	3.5
BAR LP 6131	4.3	3.7	3.3	3.0	2.7	3.0	4.3	4.0	3.3	3.4
BRIGHTSTAR SLT	5.0	3.3	3.7	2.7	2.3	3.0	4.0	3.0	3.7	3.2
CAYMAN (GO-143)	7.0	3.0	3.3	2.3	2.7	3.3	4.0	4.0	3.0	3.2
DLFPS-238/3014	6.7	3.0	2.7	3.0	3.0	3.3	3.3	4.0	3.3	3.2
FIREBALL (BWH)	8.0	3.7	3.3	2.7	2.7	3.0	3.3	3.7	3.0	3.2
BAR LP 6162	7.7	2.3	2.3	3.0	2.3	2.7	5.0	3.7	3.0	3.0
LINN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	.	1.6	1.5	1.3	1.4	1.6	2.0	1.4	1.2	0.8
C.V. (%)	.	18.7	18.4	17.5	19.0	21.0	21.1	15.9	15.4	10.8

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 12.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 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	
PPG-PR 367	7.3	7.0	7.0	7.3	7.0	7.7	7.7	8.0	7.7	7.7	7.3	6.3	6.3	7.3
JR-197	7.7	7.0	7.3	7.3	6.7	7.3	7.3	7.7	7.3	7.3	7.0	6.3	6.7	7.1
PPG-PR 372	7.7	7.0	6.7	7.0	7.0	7.0	7.0	7.7	7.7	7.7	7.3	6.0	5.7	7.0
02BS1	7.7	6.7	7.0	6.3	5.7	6.7	7.0	7.7	7.7	7.7	7.3	6.7	6.0	6.9
CPN	7.0	6.7	6.7	7.0	6.7	7.3	7.7	7.7	7.0	7.0	7.0	6.0	6.3	6.9
ALLSTAR FORE (DLFPS-236/3541)	7.3	7.0	6.3	7.0	7.0	7.0	6.7	7.3	7.3	7.3	7.3	6.3	5.7	6.9
DLFPS-236/3545	7.0	7.3	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.3	6.3	6.9
DLFPS-236/3547	7.3	7.0	7.0	7.0	6.7	7.3	7.0	7.3	7.3	7.3	7.3	6.0	5.7	6.9
FURLONG (LTP-FCB)	7.0	6.7	6.7	7.0	7.0	7.3	7.3	7.3	7.0	7.3	7.0	6.0	6.0	6.9
OVERDRIVE 5G	7.0	7.0	7.3	7.0	6.7	7.3	7.3	7.7	7.3	7.3	6.7	6.0	5.7	6.9
PPG-PR 422	7.7	7.0	6.3	6.7	6.3	7.3	7.3	7.7	7.7	7.7	7.0	6.3	6.0	6.9
STELLAR 4GL (PPG-PR 424)	7.0	7.0	6.7	7.3	7.0	7.0	6.7	7.3	7.3	7.3	7.0	5.7	6.0	6.9
SPIKE GLS (UF3)	7.0	6.7	6.7	7.0	6.7	7.3	7.3	7.3	7.0	7.0	7.0	6.7	6.3	6.9
02BS2	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.3	7.0	7.3	7.0	6.0	6.0	6.8
ALLOY (RRT)	7.0	7.0	6.3	7.0	6.7	7.0	7.0	7.3	7.3	7.0	6.7	6.0	5.7	6.8
APPLE 3GL (PPG-PR 339)	7.3	6.7	6.3	6.7	6.7	7.0	7.0	7.3	7.3	7.3	7.0	6.0	5.7	6.8
SR 4700 (DLFPS-236/3543)	7.0	6.7	6.7	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	5.3	6.8
DLFPS-236/3544	7.3	6.7	6.7	6.7	6.3	7.3	7.3	7.7	7.7	7.3	6.3	6.0	5.3	6.8
FASTBALL 3GL (PPG-PR 329)	7.3	6.3	6.3	6.7	6.3	7.0	7.0	7.7	7.7	7.7	7.0	6.0	5.7	6.8
HOMERUN LS (PPG-PR 419)	7.0	7.0	6.3	6.7	6.7	7.0	7.3	7.3	7.3	7.0	6.3	5.7	6.3	6.8
LPB-SD-102	7.0	6.3	6.7	7.3	7.3	7.3	7.0	7.3	7.3	7.3	6.7	5.7	5.0	6.8
NP-3	7.0	6.7	6.7	7.0	6.7	7.3	7.3	7.3	7.0	7.0	6.7	6.0	5.3	6.8
PST-2A2	7.7	6.7	6.7	7.0	7.0	7.0	6.7	7.3	7.3	7.3	6.7	6.0	5.7	6.8
PST-2FOXY	7.7	6.7	6.0	6.3	6.3	7.3	7.3	7.7	7.7	7.7	7.0	6.0	5.7	6.8
SLUGGER 3GL (PPG-PR 343)	7.3	7.0	7.0	7.0	6.7	7.3	7.0	7.3	7.0	7.0	6.7	6.0	5.3	6.8
XCELERATOR	7.3	6.7	6.3	6.7	6.7	7.0	7.0	7.3	7.3	7.3	6.7	6.0	6.0	6.8
021	7.0	7.0	6.7	7.0	6.7	7.0	7.0	7.3	7.3	7.0	6.0	5.3	5.7	6.7
DLFPS-236/3542	7.7	7.0	6.3	6.3	6.3	6.7	6.7	7.3	7.7	7.7	7.0	6.0	5.7	6.7
DLFPS-236/3546	7.0	6.7	6.3	6.7	6.7	6.7	6.7	7.0	7.3	7.3	7.0	6.0	5.7	6.7
DLFPS-236/3552	7.0	7.0	6.3	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.0	5.7	6.7
DLFPS-236/3556	7.0	7.0	6.7	6.7	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.0	5.3	6.7
MAN O WAR	7.0	6.7	6.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	6.0	6.0	6.7
NP-2	7.0	7.0	6.7	6.7	6.3	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.7	6.7
PARAGON 2 GLR (FP2)	7.3	7.0	6.3	6.3	6.3	7.0	7.0	7.3	7.3	7.3	6.7	6.0	6.0	6.7
PHARAOH	7.3	6.3	6.7	7.0	6.7	6.7	6.3	7.3	7.3	7.3	7.0	6.0	6.0	6.7
PPG-PR 370	7.0	6.7	6.7	7.3	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.0	6.7
PPG-PR 371	7.3	6.3	5.7	6.7	6.7	7.0	7.0	7.3	7.3	7.3	7.0	6.0	6.0	6.7
SUPERSTAR GL (PPG-PR 420)	7.3	6.7	6.0	6.7	6.7	7.0	7.0	7.3	7.3	7.3	6.7	6.0	5.7	6.7
PR-6-15	7.3	6.7	6.3	6.7	6.7	7.0	7.0	7.3	7.3	7.3	7.0	5.7	5.7	6.7
RAD-PR 112	7.7	7.0	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	6.3	5.3	6.7
UMPQUA	7.3	6.7	6.3	6.7	6.7	7.3	7.0	7.3	7.3	7.3	6.7	5.7	5.7	6.7
023	7.0	6.7	6.7	7.0	6.7	7.0	6.7	7.0	7.0	7.0	6.3	6.0	5.3	6.6
ASP0118GL (A-4G)	7.3	6.7	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	5.7	5.3	6.6
ASP0218 (A-6D)	7.0	6.3	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3	5.3	5.0	6.6
DERBY XTREME	7.0	6.7	6.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.3	6.6
DLFPS-236/3540	7.3	6.7	6.3	6.3	6.0	7.0	7.0	7.3	7.3	7.3	6.3	5.3	5.7	6.6
DLFPS-236/3553	7.0	6.7	6.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.3	6.0	5.0	6.6

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 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
FIREBALL (BWH)	7.3	6.3	6.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.3	6.0	5.3	6.6
GRAY WOLF (PST-2GAL)	7.0	6.7	6.3	6.7	6.7	7.0	7.0	7.0	6.7	7.0	6.7	6.0	5.3	6.6
INTENSE	7.3	6.3	6.0	6.3	6.3	7.0	7.0	7.3	7.3	7.3	7.0	6.0	5.3	6.6
PARADOX GLR (PPG-PR 331)	7.0	6.7	6.0	6.7	6.7	7.3	7.3	7.3	7.0	7.0	6.3	6.0	5.3	6.6
PEPPER II (RAD-PR 103)	7.3	6.7	6.7	6.7	6.7	7.0	7.0	7.3	7.3	7.0	6.0	6.0	5.3	6.6
PPG-PR 360	7.7	6.7	5.7	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.0	5.3	6.6
PPG-PR 421	7.0	6.7	6.3	6.7	6.3	7.0	7.0	7.0	7.0	7.0	6.0	6.0	5.7	6.6
PPG-PR 423	7.0	6.7	6.3	6.7	6.7	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.7	6.6
SEABISCUIT	7.0	6.7	6.3	6.3	6.0	6.7	6.7	7.0	7.0	7.0	7.0	6.0	6.0	6.6
SHIELD (02BS4)	7.0	6.3	6.7	6.7	6.3	7.0	6.7	7.0	7.0	7.0	6.7	5.7	5.7	6.6
SILVER SPORT (PST-2CRP)	7.0	6.3	6.3	6.3	6.0	7.0	7.0	7.0	7.0	7.0	7.0	5.7	6.0	6.6
ASP0117 (A-PR15)	7.0	6.0	6.0	6.7	6.7	7.0	6.7	7.0	7.0	7.0	6.7	5.7	5.3	6.5
CS-6	7.3	6.3	6.3	7.0	6.7	7.0	6.7	7.0	7.0	7.0	6.0	5.7	5.0	6.5
JR-123	7.0	6.3	6.0	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.7	6.5
KARMA	7.0	6.0	6.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.3	5.3	5.0	6.5
PR-5-16	7.0	6.3	6.3	7.0	7.0	7.0	6.0	7.0	7.0	7.0	6.3	6.0	5.0	6.5
PST-2BDT	7.0	6.3	6.7	6.7	6.0	7.0	7.0	7.0	7.0	7.0	6.0	5.7	5.3	6.5
PST-2GTD	7.0	6.7	6.3	6.7	6.3	7.0	7.0	7.0	7.0	7.0	6.3	5.7	5.3	6.5
DLFPS-236/3548	7.0	6.3	6.3	6.7	6.7	6.7	6.7	7.0	7.0	7.0	6.0	5.7	5.0	6.4
DLFPS-236/3550	7.3	6.3	5.7	6.3	6.3	7.0	7.0	7.0	6.7	6.7	6.7	6.0	5.3	6.4
FIBESTA CINCO (DLFPS-236/3554)	7.0	5.7	6.0	6.7	6.7	7.0	6.7	7.0	7.0	7.0	6.0	5.7	5.0	6.4
GRAND SLAM GLD	7.0	6.3	5.7	6.3	6.3	6.7	6.7	7.0	7.0	7.0	6.7	6.0	5.3	6.4
GRAY HAWK (PST-2FIND)	7.0	6.0	6.0	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.3	6.0	5.0	6.4
HATRICK (BSP-17)	8.0	6.0	6.0	6.7	7.0	7.0	6.3	7.0	7.0	7.0	6.0	5.0	5.7	6.4
JR-747	7.0	6.3	6.3	7.0	7.0	7.0	6.7	7.0	7.0	6.7	5.7	4.7	5.0	6.4
LPB-SD-101	7.0	6.0	6.3	6.7	6.7	7.0	6.7	7.0	7.0	7.0	6.3	5.3	5.3	6.4
LPB-SD-103	7.0	6.3	6.3	6.7	6.3	6.7	6.7	7.0	7.0	7.0	6.0	5.3	5.3	6.4
LPB-SD-105	7.0	6.0	6.0	7.0	7.0	7.0	6.7	7.3	7.3	7.3	6.3	5.3	4.0	6.4
MRS-PR16	7.0	6.0	6.3	6.7	6.3	6.7	6.7	7.0	7.0	7.0	6.0	5.3	5.7	6.4
PL2	7.0	6.3	6.3	6.3	6.3	6.7	6.7	7.0	6.7	6.7	6.3	6.0	5.7	6.4
PST-2EGAD	7.3	6.0	5.7	6.0	6.0	7.0	7.0	7.3	7.3	7.3	6.3	5.7	5.3	6.4
PST-2MAY	7.0	6.3	6.0	6.3	6.0	7.0	7.0	7.0	7.0	7.0	7.0	5.7	5.0	6.4
SLIDER LS (PPG-PR 241)	7.0	6.7	6.0	6.7	6.7	7.0	6.7	7.0	7.0	7.0	6.3	5.7	4.7	6.4
SR 4650	7.0	6.7	6.0	6.7	6.7	6.7	6.7	7.0	7.0	7.0	6.0	5.7	5.3	6.4
TEE-ME-UP (BSP-25)	7.3	6.3	6.7	6.7	6.7	7.0	6.3	6.7	6.7	6.7	6.3	5.3	5.7	6.4
ALLSTAR III	7.0	6.3	6.0	6.0	6.0	6.3	6.3	6.7	6.7	6.7	6.3	6.0	5.7	6.3
APR2612	7.0	6.3	6.0	6.0	5.7	6.7	7.0	7.0	7.0	7.0	6.0	5.3	5.3	6.3
APR2616	7.3	6.3	6.3	6.3	6.0	6.7	6.7	7.0	7.0	6.7	6.0	5.0	5.3	6.3
BAR LP 6117	7.0	6.0	5.7	6.3	6.7	7.0	7.0	7.0	6.7	6.7	6.0	5.3	5.0	6.3
BAR LP 6164	7.0	5.7	6.0	6.3	6.0	7.0	7.0	7.0	7.0	7.0	6.0	5.3	5.0	6.3
BELIZE 2 (GO-142)	7.0	6.3	6.3	6.3	6.0	6.7	6.7	6.7	6.7	6.7	6.3	5.3	5.7	6.3
DLFPS-236/3538	7.0	6.0	5.7	6.7	7.0	7.0	6.3	7.0	7.0	6.7	5.7	5.7	5.0	6.3
DLFPS-238/3014	7.0	5.7	6.3	6.3	6.0	6.7	6.7	6.7	6.7	6.7	6.0	5.7	5.7	6.3
NEXUS GT (SNX)	7.0	6.3	6.7	6.3	6.0	6.7	6.3	6.7	7.0	7.0	6.0	5.3	5.3	6.3
ASP0116EXT	7.0	6.3	6.0	6.7	6.7	6.7	6.0	6.7	6.7	6.3	5.7	5.3	5.7	6.2
CAYMAN (GO-143)	7.0	6.3	5.7	6.3	6.0	6.7	6.7	6.7	6.3	6.3	6.0	5.7	5.3	6.2
GREEN SUPREME+ (AMP-R1)	7.7	6.0	5.7	6.0	6.0	6.7	7.0	7.0	6.7	6.7	6.3	5.7	5.0	6.2

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 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	
JR-888	7.0	5.7	6.0	6.3	6.3	6.7	6.7	7.0	7.0	6.7	6.0	5.3	5.0	6.2
MENSA	6.7	6.3	6.0	6.7	6.7	6.7	6.7	6.7	6.3	6.0	5.7	5.0	5.3	6.2
MRSL-PR15	7.0	5.7	6.0	6.3	6.3	7.0	7.0	7.0	6.7	6.3	5.7	5.0	5.3	6.2
PPG-PR 385	7.0	6.0	5.7	6.3	6.3	7.0	6.7	7.0	6.7	6.7	6.0	5.3	4.7	6.2
SAGUARO	7.0	5.7	6.0	6.3	6.3	6.7	6.3	6.7	6.7	6.7	6.3	5.7	5.0	6.2
SAVANT	7.0	5.3	6.0	6.7	6.7	6.7	6.3	7.0	7.0	7.0	6.3	5.3	4.0	6.2
BAR LP 6233	7.0	5.3	5.3	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.0	5.0	4.3	6.1
LPB-SD-104	7.0	5.3	5.7	6.7	6.7	7.0	6.3	7.0	7.0	6.7	5.3	4.7	4.7	6.1
PST-2PDA	7.0	6.0	6.0	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.0	5.0	4.3	6.1
SIGNET	7.3	6.0	5.7	6.3	6.3	6.7	6.3	6.7	6.7	6.7	6.3	5.3	4.7	6.1
BAR LP 6131	7.0	5.7	5.7	6.0	6.0	7.0	7.0	7.0	6.7	6.7	5.7	4.7	4.3	6.0
BAR LP 6159	7.0	5.3	6.0	6.3	6.0	6.7	6.7	6.7	6.7	6.7	6.0	4.7	4.7	6.0
BAR LP 6165	7.0	5.3	6.3	6.3	6.0	6.0	6.0	6.7	6.7	6.7	6.0	5.0	5.0	6.0
EVOLVE	7.0	6.0	6.0	6.0	6.0	6.3	6.3	6.7	6.7	6.7	6.0	5.0	4.7	6.0
GO-141	7.3	5.3	5.3	6.0	6.0	6.7	6.7	7.0	7.0	6.7	5.7	5.0	5.0	6.0
BRIGHTSTAR SLT	7.0	5.7	6.0	6.3	6.0	6.3	6.3	6.3	6.3	6.3	5.7	5.0	4.7	5.9
APR3060	7.0	5.3	5.3	5.7	5.7	6.3	6.7	7.0	6.3	6.3	5.7	4.7	4.7	5.8
BAR LP 6158	7.0	5.0	5.0	5.7	5.7	6.3	6.3	6.3	6.3	6.3	5.7	5.0	4.3	5.7
BAR LP 6162	6.7	5.0	5.3	6.0	6.0	6.0	6.0	6.0	5.7	5.7	5.7	5.3	5.0	5.6
LINN	6.0	5.3	5.3	5.3	5.0	6.0	6.0	6.0	5.3	5.3	5.0	4.3	4.7	5.3
LSD VALUE	0.7	0.8	2.2	1.2	0.8	0.8	1.2	1.0	1.0	0.8	0.7	0.8	1.2	0.4
C.V. (%)	4.7	7.6	10.8	7.8	6.9	5.2	7.1	6.0	6.5	6.1	7.0	8.2	11.2	4.2

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 13.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC), OR 1/
2019 DATA

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

NAME	QUALITY RATINGS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPG-PR 367	6.3	6.0	6.7	6.7	7.3	7.7	7.7	7.3	7.3	7.3	5.3	5.3	6.8
PPG-PR 422	6.0	6.3	6.7	6.3	7.0	7.3	8.0	8.0	7.7	7.0	5.3	5.3	6.8
DLFPS-236/3546	6.3	6.3	6.7	6.7	7.0	7.0	7.7	7.7	7.7	7.0	5.3	5.0	6.7
DLFPS-236/3547	6.7	6.3	6.7	6.7	7.3	7.3	7.7	7.3	7.3	6.7	5.0	5.3	6.7
DLFPS-236/3552	6.3	6.3	7.3	7.3	7.3	7.0	7.0	7.0	7.0	7.0	5.3	5.3	6.7
FURLONG (LTP-FCB)	7.0	6.3	7.0	7.0	7.0	7.0	7.3	7.3	7.3	7.0	5.3	5.0	6.7
JR-197	6.7	6.7	6.7	6.3	7.0	7.0	7.3	7.3	7.3	7.0	5.0	5.7	6.7
CPN	6.0	6.3	6.7	6.3	7.0	7.7	7.7	7.3	7.3	7.0	5.0	5.0	6.6
ALLSTAR FORE (DLFPS-236/3541)	6.3	6.3	6.7	6.7	7.0	6.7	7.3	7.3	7.3	7.0	5.3	5.3	6.6
DLFPS-236/3544	6.3	6.0	6.7	6.3	7.0	7.0	7.7	7.7	7.3	6.7	5.0	5.0	6.6
FASTBALL 3GL (PPG-PR 329)	6.3	6.3	6.3	6.0	7.0	7.0	7.7	7.7	7.7	7.0	5.0	5.0	6.6
OVERDRIVE 5G	6.7	6.7	6.7	6.7	7.0	7.0	7.3	7.3	7.3	7.0	5.0	5.0	6.6
PPG-PR 371	6.0	5.7	6.3	6.3	7.0	7.0	7.7	7.7	7.7	7.0	5.3	5.0	6.6
STELLAR 4GL (PPG-PR 424)	6.3	6.3	7.0	7.0	7.0	6.7	7.3	7.3	7.3	7.0	5.0	5.0	6.6
021	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.5
DLFPS-236/3542	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.5
SR 4700 (DLFPS-236/3543)	6.3	6.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	5.0	5.0	6.5
DLFPS-236/3545	6.0	6.7	6.7	6.3	7.0	7.0	7.0	7.0	7.0	7.0	5.3	5.3	6.5
DLFPS-236/3548	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.5
PARAGON 2 GLR (FP2)	6.0	6.0	6.3	6.3	7.0	7.0	7.3	7.3	7.3	7.0	5.3	5.0	6.5
PPG-PR 372	6.3	6.3	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	5.3	5.0	6.5
PPG-PR 421	6.0	6.3	7.0	6.7	7.0	7.0	7.3	7.3	7.0	6.3	4.7	5.3	6.5
PR-6-15	6.0	5.7	6.7	6.7	7.0	6.7	7.3	7.7	7.3	6.7	5.3	5.3	6.5
PST-2A2	6.0	6.0	6.7	6.7	6.7	6.7	7.3	7.3	7.3	7.0	5.3	5.3	6.5
PST-2FOX	6.0	5.3	6.3	6.3	7.0	7.0	7.7	7.7	7.7	7.0	5.0	5.0	6.5
SLIDER LS (PPG-PR 241)	6.7	5.7	6.3	6.7	7.0	7.0	7.3	7.3	7.3	6.7	5.0	4.7	6.5
SLUGGER 3GL (PPG-PR 343)	6.3	6.7	6.7	6.7	7.0	6.7	7.0	7.0	7.0	6.7	5.0	5.3	6.5
023	6.0	6.0	6.3	6.3	6.7	6.7	7.3	7.3	7.3	6.7	5.0	4.7	6.4
02BS1	6.3	6.0	6.3	6.0	7.0	7.0	7.3	7.3	7.3	6.7	4.7	5.3	6.4
ALLOY (RRT)	6.3	6.0	6.7	6.7	6.7	6.7	7.3	7.3	7.3	6.3	5.3	4.7	6.4
APPLE 3GL (PPG-PR 339)	6.0	6.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.4
ASP0118GL (A-4G)	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	5.0	4.7	6.4
ASP0218 (A-6D)	6.0	6.3	6.7	6.7	7.0	7.0	7.0	7.0	7.0	6.0	4.7	5.0	6.4
DERBY XTREME	6.3	6.0	6.7	6.7	7.0	7.0	7.0	6.7	6.7	6.7	5.0	5.0	6.4
DLFPS-236/3556	6.0	6.0	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	5.3	4.7	6.4
HOMERUN LS (PPG-PR 419)	6.3	6.3	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.3	4.7	5.3	6.4
INTENSE	6.0	6.0	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	5.3	5.0	6.4
LPB-SD-101	6.0	6.3	6.7	6.7	7.0	7.0	7.3	7.0	7.0	6.0	4.3	5.0	6.4
LPB-SD-102	5.7	6.3	6.7	6.7	7.0	6.7	7.3	7.3	7.3	6.7	4.3	4.7	6.4
NP-2	6.0	6.3	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.3	6.4
NP-3	6.3	6.0	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	5.0	5.0	6.4
PHARAOH	6.3	6.0	6.3	6.3	6.7	6.7	7.3	7.3	7.3	7.0	5.0	5.0	6.4
PPG-PR 360	6.3	5.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	5.0	4.7	6.4
SUPERSTAR GL (PPG-PR 420)	6.3	6.0	6.3	6.3	6.7	6.7	7.3	7.3	7.3	7.0	5.0	5.0	6.4
PPG-PR 423	6.0	6.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	5.0	5.0	6.4
RAD-PR 112	6.0	6.3	6.7	6.7	6.7	6.7	7.0	7.0	7.0	6.7	5.0	5.0	6.4
SPIKE GLS (UF3)	5.7	5.7	6.0	6.0	7.0	7.0	7.3	7.3	7.3	7.0	5.0	5.0	6.4

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC), OR 1/
2019 DATA

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

NAME	QUALITY RATINGS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TEE-ME-UP (BSP-25)	6.0	6.0	6.7	6.7	7.0	6.7	7.0	7.0	7.0	6.3	5.0	5.3	6.4
XCELERATOR	6.0	6.3	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	5.0	5.0	6.4
02BS2	6.0	5.7	6.3	6.3	7.0	7.0	7.0	6.7	7.0	7.0	5.0	5.0	6.3
CS-6	6.0	5.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.3	4.7	5.0	6.3
DLFPS-236/3540	6.0	6.0	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.7	5.0	5.3	6.3
GRAND SLAM GLD	5.7	5.3	6.0	6.0	6.3	6.7	7.3	7.3	7.3	6.7	5.3	5.0	6.3
GRAY HAWK (PST-2FIND)	6.0	5.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.3
GRAY WOLF (PST-2GAL)	6.0	5.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.3
JR-747	5.7	5.7	6.3	6.3	7.0	7.0	7.3	7.3	7.3	6.3	4.3	4.7	6.3
KARMA	5.7	6.0	6.7	6.7	6.7	6.7	7.0	7.0	7.0	6.7	4.7	4.7	6.3
MAN O WAR	6.0	6.0	6.3	6.3	6.7	6.7	7.0	7.0	7.0	7.0	5.0	5.0	6.3
PARADOX GLR (PPG-PR 331)	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.7	6.7	6.3	5.0	5.3	6.3
PEPPER II (RAD-PR 103)	6.0	5.7	6.3	6.3	6.7	6.7	7.3	7.3	7.0	6.0	5.0	5.0	6.3
PL2	6.0	5.7	6.7	6.7	6.7	6.7	6.7	6.3	6.7	6.7	5.0	5.3	6.3
PPG-PR 370	5.7	5.7	6.7	6.7	6.7	6.7	7.0	7.0	7.0	6.7	5.0	5.0	6.3
PST-2GTD	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.7	5.0	5.0	6.3
PST-2MAY	5.7	5.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0	4.7	5.0	6.3
SEABISCUIT	6.0	6.3	6.3	6.0	6.7	6.7	7.0	7.0	7.0	6.3	5.3	5.0	6.3
SILVER SPORT (PST-2CRP)	6.0	5.7	6.0	5.7	6.7	7.0	7.0	7.0	7.0	7.0	5.0	5.0	6.3
UMPQUA	6.3	5.7	6.3	6.3	6.3	6.3	7.0	7.0	7.0	6.7	5.3	5.0	6.3
ASP0117 (A-PR15)	6.0	5.7	6.7	6.7	6.7	6.3	6.7	6.7	6.7	6.3	4.7	5.0	6.2
DLFPS-236/3550	6.0	6.3	6.3	6.3	6.7	6.3	6.7	6.7	6.7	6.7	5.0	4.7	6.2
FIESTA CINCO (DLFPS-236/3554)	6.3	5.7	6.3	6.3	7.0	6.7	7.0	6.7	6.7	6.3	4.7	5.0	6.2
FIREBALL (BWH)	6.0	6.0	6.3	6.3	6.3	6.0	7.0	7.0	7.0	6.3	5.0	5.0	6.2
JR-123	5.7	5.3	6.3	6.3	7.0	6.7	7.0	7.0	7.0	6.7	5.0	4.7	6.2
LPB-SD-103	6.0	6.3	6.7	6.3	6.3	6.0	7.0	7.0	7.0	6.0	4.7	4.7	6.2
MENSA	6.0	6.0	6.7	6.7	7.0	6.3	7.0	7.0	7.0	6.0	4.0	4.7	6.2
MRS-PR15	5.7	6.0	6.3	6.3	6.7	6.7	7.0	7.0	7.0	6.0	4.3	5.0	6.2
PST-2BDT	5.7	6.0	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.0	4.7	4.7	6.2
PST-2EGAD	6.3	5.7	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.3	4.7	4.7	6.2
SHIELD (02BS4)	6.0	6.0	6.0	6.0	6.7	6.7	6.7	6.7	7.0	7.0	4.3	5.0	6.2
SR 4650	6.0	5.7	6.7	6.7	6.7	6.7	7.0	6.7	6.7	6.0	4.7	5.0	6.2
BAR LP 6164	5.7	5.7	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.0	4.0	5.0	6.1
BAR LP 6233	5.3	5.7	6.3	6.0	7.0	7.0	7.0	7.0	7.0	6.0	4.0	4.7	6.1
DLFPS-236/3538	5.7	5.7	6.7	6.7	6.7	6.3	6.7	6.7	6.7	6.3	4.3	4.7	6.1
DLFPS-236/3553	6.0	5.7	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.3	4.3	4.7	6.1
HATRICK (BSP-17)	6.0	5.7	6.3	6.3	6.3	6.3	7.0	7.0	6.7	5.7	4.3	5.0	6.1
NEXUS GT (SNX)	5.7	5.3	6.3	6.3	6.7	6.3	7.0	7.0	7.0	6.0	5.0	5.0	6.1
PPG-PR 385	5.3	5.7	6.3	6.0	6.7	6.7	7.0	6.7	7.0	6.3	4.7	4.7	6.1
PR-5-16	6.0	6.0	6.3	6.3	6.3	6.0	7.0	7.0	7.0	6.3	4.7	4.7	6.1
SAGUARO	6.0	5.7	6.3	6.3	6.7	6.3	7.0	7.0	7.0	6.3	4.3	4.7	6.1
ASP0116EXT	5.7	5.7	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.0	4.7	5.0	6.0
BAR LP 6165	6.0	6.3	6.3	6.0	6.3	6.3	6.7	6.7	6.7	6.0	4.3	4.7	6.0
BELIZE 2 (GO-142)	5.7	5.3	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.3	4.7	5.0	6.0
CAYMAN (GO-143)	5.7	5.3	6.3	6.3	6.7	6.3	6.7	6.7	6.7	6.0	4.7	5.0	6.0
DLFPS-238/3014	5.3	6.0	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.0	4.0	5.3	6.0
JR-888	5.7	5.7	6.3	6.0	6.3	6.3	7.0	7.0	7.0	6.3	4.0	4.3	6.0

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC), OR 1/
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
LPB-SD-104	5.7	5.7	6.7	6.7	7.0	6.7	7.0	6.7	6.7	5.7	4.0	4.0	6.0
LPB-SD-105	6.0	5.7	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	4.3	4.0	6.0
MRSL-PR16	5.7	5.3	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.0	4.7	5.0	6.0
SAVANT	5.7	5.7	6.3	6.3	6.7	6.0	6.7	7.0	7.0	6.3	4.0	4.3	6.0
SIGNET	5.7	5.3	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.3	4.0	4.7	6.0
APR2612	5.7	5.7	5.7	5.7	6.7	6.7	7.0	6.7	6.3	5.7	4.3	4.7	5.9
APR2616	5.3	5.3	5.7	5.7	6.7	6.7	6.7	6.7	6.7	6.3	4.3	5.0	5.9
BAR LP 6117	5.3	5.3	6.3	6.3	6.7	6.7	6.7	6.7	6.3	5.7	4.0	4.7	5.9
BAR LP 6131	5.3	5.7	6.0	6.0	7.0	7.0	7.0	6.3	6.3	5.3	4.0	4.3	5.9
BAR LP 6159	5.3	5.7	6.3	6.0	6.7	6.7	6.7	6.7	6.7	6.0	4.0	4.3	5.9
GREEN SUPREME+ (AMP-R1)	5.3	5.3	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.0	4.3	4.7	5.9
ALLSTAR III	5.3	5.7	6.0	6.0	6.3	5.7	6.3	6.3	6.3	6.0	4.7	5.0	5.8
BRIGHTSTAR SLT	5.0	5.3	6.0	6.0	6.3	6.3	6.7	6.7	6.7	5.7	4.0	4.3	5.8
EVOLVE	5.0	5.7	6.0	6.0	6.3	6.3	6.7	6.7	6.7	5.7	4.0	5.0	5.8
PST-2PDA	5.7	5.7	6.0	6.0	6.3	6.3	6.3	6.3	6.3	6.0	4.0	4.3	5.8
APR3060	5.0	5.3	5.3	5.3	6.3	6.3	6.7	6.7	6.7	5.7	4.0	4.7	5.7
GO-141	5.0	5.0	5.7	5.7	6.0	6.3	6.7	6.7	6.7	5.7	4.3	5.0	5.7
BAR LP 6158	5.0	5.0	5.7	5.7	6.3	6.3	6.3	6.3	6.3	6.3	4.0	4.3	5.6
BAR LP 6162	5.0	5.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	4.0	5.0	5.6
LINN	5.0	5.0	5.0	4.7	5.7	6.0	6.0	5.7	5.7	5.3	4.0	4.7	5.2
LSD VALUE	0.9	2.5	1.2	1.0	1.1	1.1	0.8	0.8	0.8	0.7	0.8	1.2	0.5
C.V. (%)	7.7	10.6	7.8	7.6	6.3	7.0	5.5	6.1	5.9	6.7	9.4	8.7	4.4

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

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

TABLE 14. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 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	
FURLONG (LTP-FCB)	8.0	5.3	6.3	7.3	6.7	7.3	7.7	8.0	8.7	7.4
ALLOY (RRT)	8.0	5.3	6.0	7.3	6.0	7.0	7.3	8.3	9.0	7.3
PPG-PR 421	8.7	5.3	6.3	6.7	6.3	7.3	7.0	8.3	8.3	7.2
DLFPS-236/3542	8.3	5.0	7.0	7.3	6.0	6.3	6.3	7.7	9.0	7.1
SLUGGER 3GL (PPG-PR 343)	8.0	5.0	6.3	7.7	6.3	6.0	6.7	8.0	8.7	7.1
ASP0218 (A-6D)	8.7	6.0	7.3	6.0	5.7	6.0	6.3	8.7	9.0	7.0
PPG-PR 370	8.0	5.7	7.0	7.0	6.3	5.7	6.3	8.3	8.0	7.0
PPG-PR 372	7.7	5.0	6.3	6.7	6.7	6.0	6.7	8.3	8.7	7.0
STELLAR 4GL (PPG-PR 424)	8.0	5.0	6.3	6.3	6.3	6.7	6.7	8.7	8.3	7.0
02BS2	7.3	6.7	6.0	6.0	5.3	6.7	7.7	7.7	8.7	6.9
FIESTA CINCO (DLFPS-236/3554)	8.0	5.3	7.0	7.0	6.0	5.7	6.3	7.7	8.3	6.9
FASTBALL 3GL (PPG-PR 329)	7.7	5.7	6.0	6.3	6.0	6.0	6.7	8.7	8.7	6.9
GRAY WOLF (PST-2GAL)	8.3	6.0	6.3	6.7	6.0	6.3	6.7	7.7	8.7	6.9
MRSL-PR15	8.3	4.7	6.3	6.3	5.7	6.3	6.7	7.7	9.0	6.9
PPG-PR 360	7.3	6.0	6.3	6.0	6.3	6.3	6.7	7.7	8.7	6.9
PPG-PR 371	7.7	5.3	6.3	6.7	5.7	6.7	6.7	8.0	8.0	6.9
PR-6-15	7.7	5.3	6.3	6.3	6.3	7.0	6.0	7.7	8.3	6.9
PST-2A2	7.3	5.7	6.7	7.0	5.3	6.3	6.7	8.3	8.0	6.9
SILVER SPORT (PST-2CRP)	8.0	5.7	5.7	6.7	5.7	6.7	7.0	8.0	8.7	6.9
APR2616	8.0	5.0	7.0	6.0	5.7	5.7	7.0	7.7	8.7	6.8
ASP0116EXT	9.0	6.3	6.0	6.0	6.0	5.3	6.7	9.0	8.7	6.8
CS-6	8.3	6.0	6.7	6.7	5.7	6.3	5.7	7.7	9.0	6.8
SR 4700 (DLFPS-236/3543)	7.3	4.7	6.7	6.0	6.3	6.3	6.3	7.7	8.0	6.8
DLFPS-236/3550	8.0	5.7	6.7	6.3	5.3	7.0	7.3	7.3	7.7	6.8
DLFPS-236/3552	7.7	5.3	6.0	7.3	6.0	6.0	6.3	8.0	8.0	6.8
HOMERUN LS (PPG-PR 419)	7.3	5.0	5.7	6.3	6.0	5.7	7.0	8.3	8.7	6.8
NP-2	7.3	5.3	6.3	6.3	6.3	6.0	5.3	8.7	8.7	6.8
PPG-PR 423	8.0	5.3	6.3	6.7	6.3	6.0	6.3	8.0	8.0	6.8
PST-2FOXY	7.7	5.7	7.3	6.3	5.3	6.3	6.0	7.7	8.3	6.8
PST-2MAY	7.3	5.3	6.0	6.3	5.7	6.3	7.3	7.3	8.3	6.8
RAD-PR 112	8.3	6.7	8.0	6.0	6.3	5.3	5.3	8.3	8.0	6.8
CAYMAN (GO-143)	8.0	6.0	6.3	6.0	5.7	5.7	6.0	8.0	9.0	6.7
CPN	7.3	5.0	6.0	6.0	5.3	6.3	6.7	8.3	8.3	6.7
DLFPS-236/3546	7.3	5.3	6.0	6.3	5.7	6.3	6.3	7.7	8.7	6.7
FIREBALL (BWH)	8.7	6.0	7.0	6.3	5.3	5.3	6.3	7.7	8.7	6.7
JR-123	7.3	5.7	6.0	6.3	5.7	6.0	7.3	7.7	7.7	6.7
PARADOX GLR (PPG-PR 331)	7.7	6.3	6.3	5.7	5.3	5.7	7.0	8.3	8.7	6.7
PARAGON 2 GLR (FP2)	7.3	6.0	6.7	6.3	5.7	5.3	6.7	8.0	8.0	6.7
PL2	8.3	5.7	6.7	6.3	6.0	5.7	5.7	8.3	8.3	6.7
SUPERSTAR GL (PPG-PR 420)	8.0	5.3	6.0	6.3	5.7	6.7	5.7	8.3	8.3	6.7
XCELERATOR	8.0	4.3	5.3	6.3	6.0	6.0	6.7	8.3	8.3	6.7
023	7.0	6.0	5.7	6.0	6.0	5.7	6.7	7.7	8.3	6.6
02BS1	8.0	5.7	6.7	6.3	5.7	5.3	6.0	8.0	8.0	6.6
DLFPS-236/3544	8.0	6.3	6.7	6.3	6.0	5.3	6.0	8.0	8.0	6.6
DLFPS-236/3553	7.7	5.3	6.0	6.3	5.0	6.0	6.3	7.7	8.7	6.6
GRAND SLAM GLD	8.0	5.3	6.3	6.3	5.7	5.3	6.3	7.7	8.3	6.6
HATRICK (BSP-17)	8.7	5.7	7.0	5.7	5.7	5.7	6.0	7.7	8.3	6.6

TABLE 14. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 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	
INTENSE	7.7	6.0	6.7	6.3	5.3	5.7	6.0	7.7	8.7	6.6
JR-747	7.3	4.0	4.7	5.7	6.3	6.7	6.3	8.0	8.3	6.6
NEXUS GT (SNX)	8.0	5.7	6.3	6.3	5.7	6.0	5.7	7.3	8.7	6.6
NP-3	7.3	5.0	6.0	6.3	6.3	6.0	5.7	7.7	8.3	6.6
PHARAOH	7.3	4.7	5.7	6.3	5.7	6.3	6.7	7.7	7.7	6.6
SAGUARO	7.7	5.3	6.7	6.3	6.0	5.3	6.0	7.7	8.0	6.6
SPIKE GLS (UF3)	7.3	4.7	5.7	6.3	5.7	6.3	6.0	8.0	8.0	6.6
SR 4650	7.7	5.3	5.3	6.3	5.3	5.7	6.3	9.0	8.3	6.6
APPLE 3GL (PPG-PR 339)	7.3	5.3	5.7	6.7	5.7	5.7	6.0	7.7	8.3	6.5
ASP0117 (A-PR15)	8.0	5.3	7.0	6.7	6.0	5.7	5.3	7.7	7.0	6.5
DLFPS-236/3538	7.3	5.3	6.3	7.0	5.7	5.3	6.0	7.3	7.7	6.5
ALLSTAR FORE (DLFPS-236/3541)	7.7	6.0	7.0	6.3	6.0	5.0	5.7	7.7	8.0	6.5
DLFPS-236/3547	7.7	4.7	6.3	6.0	5.7	6.3	6.3	7.3	7.7	6.5
GREEN SUPREME+ (AMP-R1)	8.3	5.0	6.0	6.0	5.7	6.0	5.3	7.7	8.7	6.5
LPB-SD-102	7.3	4.3	4.3	5.7	6.3	6.3	7.0	8.0	8.0	6.5
OVERDRIVE 5G	7.7	5.7	6.0	6.7	6.0	6.0	6.0	7.0	8.0	6.5
PPG-PR 422	7.3	6.0	6.3	5.7	5.3	6.0	6.3	8.0	8.0	6.5
SIGNET	7.7	5.7	6.3	5.7	6.3	5.3	5.7	8.0	8.3	6.5
TEE-ME-UP (BSP-25)	8.3	6.0	7.0	5.7	6.0	5.7	5.0	7.3	8.7	6.5
021	7.7	5.0	5.7	5.3	6.0	6.0	5.7	7.7	8.3	6.4
ASP0118GL (A-4G)	8.7	6.0	6.7	5.7	5.7	5.7	5.3	7.7	8.3	6.4
DERBY XTREME	8.0	4.7	4.7	6.0	5.7	6.0	6.0	8.0	8.7	6.4
DLFPS-236/3548	7.0	5.3	6.0	7.0	5.7	5.7	6.0	7.3	7.3	6.4
GO-141	8.0	5.7	6.0	6.3	5.3	5.3	5.3	8.0	8.7	6.4
GRAY HAWK (PST-2FIND)	7.7	4.7	5.3	5.7	6.0	5.3	6.0	8.0	8.3	6.4
LPB-SD-104	7.7	3.7	4.7	5.3	5.7	6.0	6.3	8.7	8.3	6.4
MRL-PR16	8.3	5.7	6.3	5.3	5.0	5.7	5.7	8.0	8.7	6.4
PEPPER II (RAD-PR 103)	8.7	5.0	6.0	6.0	6.0	5.3	5.7	8.0	8.0	6.4
PPG-PR 367	7.3	6.3	6.3	6.3	5.3	5.0	7.0	7.0	8.0	6.4
PR-5-16	7.3	4.7	5.7	6.0	6.0	5.7	6.0	7.7	8.0	6.4
ALLSTAR III	8.0	6.0	6.7	5.7	5.3	5.7	5.7	7.0	8.3	6.3
BAR LP 6117	7.3	5.7	7.3	6.7	5.0	5.0	5.3	7.3	7.3	6.3
BELIZE 2 (GO-142)	7.7	5.7	7.0	5.3	4.7	5.3	6.0	8.0	8.0	6.3
DLFPS-236/3540	7.7	4.3	5.3	6.0	5.7	6.7	6.0	7.3	7.3	6.3
DLFPS-236/3545	7.7	5.0	6.3	6.0	5.3	5.3	5.7	7.7	7.7	6.3
LPB-SD-103	7.3	5.7	5.7	6.0	6.0	5.3	6.0	7.3	7.7	6.3
LPB-SD-105	7.3	4.0	4.0	5.0	6.0	6.3	6.7	8.0	8.0	6.3
MAN O WAR	7.0	5.0	6.3	5.7	5.7	5.7	5.7	7.7	7.3	6.3
MENSA	7.0	4.3	5.3	5.0	6.7	5.7	5.7	8.0	7.7	6.3
PST-2EGAD	7.7	5.7	6.0	6.0	5.0	5.7	5.7	7.3	8.3	6.3
UMPQUA	7.3	6.0	6.0	6.3	5.7	6.0	5.7	7.0	7.3	6.3
BAR LP 6159	7.7	6.3	6.3	6.0	5.3	5.0	6.0	7.3	7.3	6.2
DLFPS-236/3556	6.7	5.7	6.3	5.7	6.0	5.7	5.3	7.3	7.3	6.2
PPG-PR 385	7.0	5.0	6.0	6.7	5.3	5.7	5.3	7.0	7.7	6.2
PST-2BDT	8.0	5.7	6.3	6.3	5.3	5.3	5.0	7.3	7.7	6.2
PST-2GTD	7.7	4.7	5.3	5.7	6.0	6.0	5.7	7.3	7.3	6.2
SAVANT	7.0	4.0	4.3	5.0	5.7	6.0	6.7	7.7	8.0	6.2

TABLE 14. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
 2019 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	APR	MAY	QUALITY RATINGS					MEAN
					JUN	JUL	AUG	SEP	OCT	
SEABISCUIT	7.3	5.3	5.7	5.0	5.0	6.0	6.7	7.3	7.7	6.2
SHIELD (02BS4)	7.0	5.7	5.3	5.7	5.3	5.3	6.0	7.3	8.3	6.2
APR2612	8.0	5.0	4.7	5.3	5.7	5.7	6.0	7.7	8.0	6.1
JR-197	7.3	5.7	6.3	6.0	4.7	5.3	6.0	7.3	7.3	6.1
KARMA	7.3	4.7	5.3	5.7	5.3	6.0	6.0	7.0	7.3	6.1
LPB-SD-101	7.0	4.7	4.7	5.3	5.3	5.7	6.3	7.7	7.7	6.1
SLIDER LS (PPG-PR 241)	7.7	4.7	5.0	6.3	6.0	5.3	4.7	7.3	8.3	6.1
BRIGHTSTAR SLT	7.3	5.7	6.3	6.0	4.7	5.0	5.3	7.0	7.7	6.0
PST-2PDA	7.7	6.0	6.0	5.3	4.7	5.7	5.3	7.3	8.0	6.0
APR3060	8.3	4.3	5.0	5.3	5.3	5.3	5.7	7.0	7.7	5.9
BAR LP 6164	7.3	5.3	5.7	5.0	5.0	5.7	5.3	6.7	7.7	5.9
JR-888	6.3	5.0	5.0	4.7	5.3	5.3	5.0	8.0	8.0	5.9
BAR LP 6158	7.0	5.0	5.7	5.3	5.3	6.0	6.0	5.3	7.0	5.8
BAR LP 6233	6.3	5.7	5.7	5.0	4.7	5.3	6.3	6.3	7.3	5.8
EVOLVE	7.3	5.0	5.7	5.3	4.7	5.3	5.0	6.7	8.0	5.8
BAR LP 6131	6.7	4.3	5.7	5.7	4.7	5.7	5.3	6.3	6.3	5.7
BAR LP 6162	8.0	4.7	5.0	4.7	5.0	5.7	4.7	6.7	7.3	5.6
DLFPS-238/3014	6.3	5.3	5.7	4.7	5.7	4.7	4.3	6.0	6.3	5.3
BAR LP 6165	6.3	4.0	4.3	4.3	5.3	4.7	4.0	5.3	7.0	5.0
LINN	4.0	5.3	2.7	2.0	2.7	3.3	2.7	3.0	4.0	2.9
LSD VALUE	0.8	1.9	1.7	1.2	1.0	1.4	2.1	1.2	1.3	0.5
C.V. (%)	6.8	15.4	14.7	11.8	10.2	12.1	15.9	9.5	8.8	5.3

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

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

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/2019 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							
		APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RAD-PR 112	5.7	8.0	6.7	6.0	6.0	5.0	6.3	7.3	6.5
PARAGON 2 GLR (FP2)	5.3	6.0	6.3	6.0	5.7	6.0	7.0	7.3	6.3
STELLAR 4GL (PPG-PR 424)	5.0	6.0	6.3	6.0	5.7	6.0	6.7	7.3	6.3
FIREBALL (BWH)	5.3	6.3	7.0	6.0	5.7	5.7	6.0	7.0	6.2
HATRICK (BSP-17)	5.3	6.3	6.0	6.0	5.7	5.3	6.7	7.7	6.2
NEXUS GT (SNX)	4.7	6.3	6.7	6.0	5.3	5.0	6.7	7.3	6.2
PPG-PR 371	4.0	5.3	6.7	6.0	5.7	5.0	6.7	7.3	6.1
SUPERSTAR GL (PPG-PR 420)	5.0	6.7	6.7	5.7	6.3	5.0	5.7	6.7	6.1
APPLE 3GL (PPG-PR 339)	4.3	5.3	6.3	6.0	5.7	5.3	6.3	6.7	6.0
APR2616	4.7	6.3	6.0	6.0	5.7	5.0	6.0	6.7	6.0
ASP0116EXT	5.0	6.0	6.7	6.7	5.3	5.0	6.3	6.3	6.0
ASP0218 (A-6D)	4.7	6.0	6.3	6.3	5.7	5.0	5.7	7.0	6.0
ALLSTAR FORE (DLFPS-236/3541)	5.0	6.3	6.7	5.7	5.7	5.0	6.3	6.3	6.0
DLFPS-236/3550	4.0	5.0	6.3	6.0	5.7	5.0	6.3	7.3	6.0
GRAND SLAM GLD	4.0	6.0	6.7	6.3	6.3	4.7	5.7	6.7	6.0
GRAY WOLF (PST-2GAL)	4.7	5.7	6.0	6.0	5.7	5.0	6.3	7.0	6.0
HOMERUN LS (PPG-PR 419)	4.7	5.3	6.0	6.3	6.0	5.7	6.3	6.3	6.0
PEPPER II (RAD-PR 103)	5.0	6.3	7.0	5.7	5.3	4.3	6.0	7.0	6.0
PPG-PR 422	4.3	6.3	6.0	6.0	5.0	5.0	6.0	7.3	6.0
PST-2A2	4.0	5.3	6.0	6.0	6.0	5.7	6.0	7.3	6.0
SHIELD (02BS4)	5.0	6.3	5.7	5.7	5.3	5.0	6.3	7.3	6.0
SILVER SPORT (PST-2CRP)	5.3	6.3	6.3	5.3	5.0	5.3	6.7	7.3	6.0
SPIKE GLS (UF3)	4.7	5.3	6.0	6.0	5.7	5.0	6.3	7.3	6.0
CPN	4.7	5.7	6.3	5.7	5.7	5.0	5.7	7.0	5.9
DLFPS-236/3538	4.3	5.7	6.0	6.0	6.0	5.0	6.0	6.7	5.9
FURLONG (LTP-FCB)	4.7	5.7	6.7	6.3	6.0	5.0	5.7	6.0	5.9
GREEN SUPREME+ (AMP-R1)	5.7	7.0	6.0	5.7	5.3	4.3	5.7	7.3	5.9
PARADOX GLR (PPG-PR 331)	4.0	5.3	6.0	5.7	5.3	5.3	6.3	7.0	5.9
PPG-PR 367	5.3	7.0	6.0	5.3	4.7	4.7	6.3	7.0	5.9
PPG-PR 370	4.7	5.7	6.3	5.7	6.0	5.0	5.7	6.7	5.9
PPG-PR 423	4.7	5.7	6.3	6.3	6.0	4.7	5.3	6.7	5.9
PST-2BDT	4.7	5.7	6.3	5.3	5.3	5.0	6.3	7.0	5.9
SLUGGER 3GL (PPG-PR 343)	4.0	5.0	5.7	6.0	5.3	5.0	6.7	7.3	5.9
TEE-ME-UP (BSP-25)	5.0	5.7	6.0	7.0	5.7	4.3	5.7	7.0	5.9
021	5.0	6.3	5.7	5.7	5.7	5.0	5.7	6.3	5.8
CAYMAN (GO-143)	5.0	7.0	6.0	5.0	5.5	5.0	5.5	6.5	5.8
SR 4700 (DLFPS-236/3543)	4.7	5.7	6.3	6.3	5.3	5.3	5.3	6.3	5.8
DLFPS-236/3544	4.7	5.0	6.0	6.0	5.7	5.0	6.0	6.7	5.8
DLFPS-236/3553	5.0	6.0	6.0	6.0	5.3	4.7	5.7	6.7	5.8
MRS�-PR16	5.7	6.7	6.7	6.0	5.0	4.7	5.0	6.3	5.8
NP-2	4.7	5.0	5.7	5.7	6.0	5.3	5.7	7.0	5.8
OVERDRIVE 5G	4.3	5.7	5.7	5.7	5.7	5.0	5.7	7.0	5.8
PPG-PR 360	4.7	5.0	6.0	6.0	5.7	4.7	6.3	6.7	5.8
PST-2GTD	5.3	6.0	6.0	5.3	5.7	4.7	5.7	7.0	5.8
PST-2PDA	4.7	6.0	5.7	5.0	4.7	5.7	6.3	7.3	5.8
SIGNET	4.0	4.7	5.7	6.0	5.7	5.0	6.7	7.0	5.8
ALLOY (RRT)	4.0	5.0	6.3	5.7	5.3	5.0	6.0	6.3	5.7

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/
 2019 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS								
	SPRING GREENUP	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
APR2612	4.7	5.7	6.3	6.0	5.3	4.7	5.7	6.0	5.7
ASP0118GL (A-4G)	5.0	6.3	6.3	6.0	5.7	4.0	5.3	6.3	5.7
DERBY XTREME	4.3	5.7	6.3	5.7	4.7	4.7	6.0	6.7	5.7
DLFPS-236/3540	5.3	6.0	5.3	5.7	6.0	4.7	6.0	6.0	5.7
DLFPS-236/3548	4.0	5.3	6.0	5.7	5.0	5.0	6.0	7.0	5.7
FASTBALL 3GL (PPG-PR 329)	4.7	5.3	6.7	6.0	5.0	4.7	6.0	6.0	5.7
JR-123	5.0	5.7	6.3	5.3	5.3	5.0	6.0	6.3	5.7
PR-5-16	4.7	5.0	6.0	6.3	5.3	5.0	6.0	6.0	5.7
PST-2MAY	4.0	5.0	6.3	5.0	5.3	5.3	6.3	6.7	5.7
SR 4650	4.7	6.0	6.3	6.0	5.3	4.7	5.3	6.3	5.7
BAR LP 6159	5.3	6.7	6.0	4.7	4.7	5.0	5.7	6.7	5.6
GO-141	5.7	5.7	5.3	5.0	5.3	5.0	6.3	6.7	5.6
INTENSE	4.7	5.0	5.7	5.7	5.3	5.0	5.7	6.7	5.6
JR-197	4.3	5.0	6.3	5.7	5.3	4.7	6.0	6.3	5.6
MRSI-PR15	5.0	6.3	5.7	5.3	5.3	4.3	5.3	6.7	5.6
NP-3	4.3	5.0	5.7	5.3	5.0	5.3	6.3	6.7	5.6
PPG-PR 372	3.7	4.3	5.7	6.3	6.3	4.7	5.3	6.7	5.6
PPG-PR 385	5.0	5.7	5.3	6.0	5.3	4.0	6.0	7.0	5.6
PPG-PR 421	4.7	4.3	6.3	6.0	5.7	4.7	5.7	6.7	5.6
PR-6-15	4.3	4.3	6.3	6.0	5.3	5.0	5.3	7.0	5.6
PST-2FOXY	4.3	5.3	6.3	5.3	5.0	4.7	6.0	6.3	5.6
SAVANT	3.3	4.3	4.7	5.7	5.7	5.7	6.3	6.7	5.6
SEABISCUIT	4.7	5.7	5.7	4.7	4.7	5.3	6.7	6.7	5.6
02BS1	5.0	6.0	6.0	5.3	4.3	4.3	5.7	7.0	5.5
02BS2	4.7	6.0	6.0	5.7	5.0	4.3	5.3	6.3	5.5
ALLSTAR III	4.7	5.3	6.3	5.3	4.7	4.7	5.3	7.0	5.5
APR3060	4.3	5.3	5.7	6.0	5.7	4.3	5.7	6.0	5.5
ASP0117 (A-PR15)	4.0	4.3	5.7	6.0	5.7	4.7	6.0	6.0	5.5
BRIGHTSTAR SLT	5.0	5.7	5.7	5.3	4.7	5.0	5.7	6.3	5.5
DLFPS-236/3542	4.3	4.7	5.7	5.3	5.7	4.7	5.7	7.0	5.5
DLFPS-236/3545	4.0	4.7	5.7	5.7	5.3	4.7	5.7	7.0	5.5
DLFPS-236/3547	3.7	4.3	5.7	6.0	6.0	4.7	5.3	6.7	5.5
GRAY HAWK (PST-2FIND)	4.7	5.0	5.7	5.3	5.7	4.7	6.0	6.0	5.5
MAN O WAR	4.3	5.0	5.0	5.7	5.7	5.0	6.0	6.3	5.5
PHARAOH	4.7	6.0	6.0	5.7	5.3	4.3	5.3	6.0	5.5
UMPQUA	4.7	6.0	5.7	5.3	5.3	4.7	5.3	6.3	5.5
023	5.0	4.7	5.3	5.7	5.0	5.0	6.0	6.3	5.4
BAR LP 6164	5.7	5.0	5.7	5.0	5.7	5.0	5.3	6.3	5.4
BELIZE 2 (GO-142)	4.7	5.7	6.3	5.7	4.7	4.3	5.3	6.0	5.4
CS-6	5.0	5.7	5.7	5.0	4.7	4.3	6.0	6.7	5.4
DLFPS-236/3546	4.3	4.7	6.0	5.7	5.3	4.7	5.3	6.3	5.4
DLFPS-236/3556	5.0	4.7	5.7	5.3	5.7	4.7	5.3	6.3	5.4
KARMA	3.3	5.0	6.0	5.7	5.0	4.7	5.7	6.0	5.4
PST-2EGAD	5.3	5.7	5.0	4.7	5.3	4.7	5.7	6.7	5.4
SAGUARO	4.0	5.3	4.7	6.0	5.0	5.0	5.7	6.0	5.4
SLIDER LS (PPG-PR 241)	4.0	4.0	5.7	5.7	5.3	4.7	5.7	6.7	5.4
XCELERATOR	4.3	5.3	5.3	5.7	5.0	5.0	5.3	6.0	5.4

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/
 2019 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
BAR LP 6117	4.7	5.3	5.3	4.7	4.3	4.3	6.0	7.0	5.3
DLFPS-236/3552	5.0	5.3	6.0	5.0	4.7	4.7	5.0	6.3	5.3
LPB-SD-102	3.3	3.3	4.3	4.7	5.7	5.7	6.7	7.0	5.3
LPB-SD-103	3.7	4.7	5.3	5.0	5.0	5.0	5.7	6.7	5.3
PL2	4.7	5.7	5.3	5.0	4.0	5.0	6.0	6.0	5.3
BAR LP 6158	5.3	6.0	5.0	5.0	4.7	4.0	5.3	6.7	5.2
BAR LP 6233	4.7	5.0	5.0	5.0	4.7	4.7	5.7	6.3	5.2
DLFPS-238/3014	4.7	5.0	4.3	4.3	5.7	5.0	5.7	6.3	5.2
JR-888	4.0	3.7	4.3	5.7	5.0	5.3	6.0	6.7	5.2
JR-747	3.3	3.3	4.3	5.0	6.0	5.0	6.0	6.3	5.1
BAR LP 6131	4.7	4.7	5.3	4.7	4.7	4.3	5.3	6.3	5.0
BAR LP 6162	5.0	5.3	5.0	4.3	5.0	4.0	5.0	6.3	5.0
DLFPS-236/3554	3.3	3.7	5.0	5.3	5.3	4.7	5.3	6.0	5.0
EVOLVE	4.3	5.0	5.0	4.7	4.0	4.0	5.7	6.7	5.0
MENSA	3.3	3.3	3.7	4.7	5.3	5.0	6.0	6.3	4.9
LPB-SD-101	2.7	3.0	3.7	4.3	5.3	4.3	5.7	6.7	4.7
LPB-SD-105	2.0	2.3	2.7	4.0	5.0	5.3	5.3	6.3	4.4
BAR LP 6165	3.0	3.0	4.0	3.7	3.3	3.7	5.0	6.7	4.2
LINN	4.0	2.7	2.3	3.0	4.0	4.0	6.3	6.7	4.1
LPB-SD-104	2.3	2.3	2.3	4.0	4.3	4.0	5.0	6.0	4.0
LSD VALUE	1.3	1.7	1.2	1.1	1.8	2.9	2.4	2.7	0.8
C.V. (%)	15.6	18.6	13.2	11.1	13.8	14.8	12.0	10.5	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 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
 2019 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER		QUALITY RATINGS							MEAN
	SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT		
XCELERATOR	99.0	97.7	7.7	8.7	7.0	7.3	6.7	6.7	7.3	
DLFPS-236/3538	99.0	99.0	8.0	8.7	7.0	6.3	6.0	6.3	7.1	
DLFPS-236/3542	99.0	86.0	8.3	8.7	6.0	7.3	5.3	6.7	7.1	
SUPERSTAR GL (PPG-PR 420)	99.0	96.3	8.7	8.3	6.7	6.3	5.7	6.7	7.1	
CPN	99.0	99.0	8.3	8.3	6.7	6.0	6.0	6.3	6.9	
HOMERUN LS (PPG-PR 419)	99.0	97.7	8.7	8.7	7.0	6.3	4.7	6.3	6.9	
INTENSE	99.0	92.7	7.0	9.0	7.0	7.0	5.3	6.0	6.9	
PPG-PR 385	99.0	92.7	7.7	8.7	7.0	6.7	5.3	6.3	6.9	
PPG-PR 422	99.0	99.0	8.0	9.0	6.3	6.0	6.0	6.0	6.9	
PPG-PR 423	99.0	89.3	7.3	9.0	6.3	7.0	5.3	6.3	6.9	
SLUGGER 3GL (PPG-PR 343)	99.0	99.0	8.0	8.7	7.3	6.0	5.3	6.3	6.9	
BAR LP 6165	99.0	97.7	8.3	9.0	5.3	5.7	6.0	6.7	6.8	
PPG-PR 367	99.0	89.3	8.0	8.3	6.3	6.0	6.0	6.3	6.8	
PPG-PR 371	99.0	89.3	8.3	8.3	7.0	6.3	4.7	6.3	6.8	
STELLAR 4GL (PPG-PR 424)	99.0	97.7	8.7	8.0	7.3	6.3	4.7	6.0	6.8	
PST-2GTD	99.0	89.3	8.0	8.3	6.3	6.3	5.3	6.3	6.8	
02BS1	99.0	89.7	8.0	8.0	7.0	6.0	5.0	6.0	6.7	
APR2616	99.0	89.3	8.0	8.3	7.0	5.7	5.0	6.0	6.7	
APR3060	99.0	89.3	8.3	7.7	6.0	6.3	5.7	6.3	6.7	
BAR LP 6233	99.0	83.0	8.0	9.0	6.3	6.3	5.0	5.7	6.7	
ALLSTAR FORE (DLFPS-236/3541)	94.3	89.3	8.0	7.7	6.3	6.7	5.3	6.3	6.7	
DLFPS-236/3547	99.0	92.7	7.3	8.7	7.0	6.3	4.7	6.3	6.7	
GRAY WOLF (PST-2GAL)	99.0	89.3	8.0	8.0	6.7	6.3	5.0	6.0	6.7	
PPG-PR 372	99.0	89.3	8.3	9.0	7.0	5.7	4.7	5.7	6.7	
PPG-PR 421	99.0	89.3	7.7	8.3	6.7	6.0	5.7	6.0	6.7	
PR-5-16	99.0	89.3	8.0	8.7	7.0	6.0	5.0	5.7	6.7	
PR-6-15	99.0	99.0	8.0	8.0	6.0	6.0	5.7	6.7	6.7	
023	99.0	83.0	8.0	8.0	7.0	6.3	4.3	5.7	6.6	
DLFPS-236/3545	99.0	79.7	8.0	8.0	7.0	5.7	4.7	6.3	6.6	
DLFPS-236/3548	99.0	83.0	7.7	8.0	5.7	6.7	5.0	6.7	6.6	
DLFPS-236/3556	99.0	86.0	7.7	8.3	6.3	6.0	5.0	6.0	6.6	
FURLONG (LTP-FCB)	99.0	92.7	7.7	8.7	6.3	6.3	5.0	5.7	6.6	
JR-197	99.0	97.7	6.7	9.0	7.0	6.0	5.0	6.0	6.6	
UMPQUA	99.0	83.0	7.0	9.0	6.7	6.0	4.3	6.3	6.6	
ALLOY (RRT)	99.0	79.7	7.7	8.7	6.7	5.3	5.0	5.7	6.5	
DLFPS-236/3550	99.0	88.0	7.3	8.0	6.7	6.0	5.0	6.0	6.5	
EVOLVE	99.0	83.0	8.0	7.3	7.0	6.0	4.3	6.3	6.5	
GRAND SLAM GLD	99.0	88.0	8.3	8.0	6.7	5.7	5.0	5.3	6.5	
OVERDRIVE 5G	99.0	97.7	7.7	8.7	6.0	6.0	4.7	6.0	6.5	
021	99.0	89.3	7.0	7.7	6.7	5.7	5.3	6.0	6.4	
ASP0116EXT	99.0	89.3	8.0	8.0	6.0	6.0	4.3	6.3	6.4	
BAR LP 6131	99.0	88.0	7.7	7.3	6.7	6.0	4.7	6.3	6.4	
GO-141	99.0	97.7	7.0	8.3	6.0	5.7	5.7	6.0	6.4	
MRSI-PR16	99.0	89.3	8.0	7.7	5.7	6.0	5.0	6.3	6.4	
SPIKE GLS (UF3)	99.0	86.0	7.7	8.0	7.0	5.7	4.7	5.7	6.4	
BAR LP 6158	99.0	75.0	8.3	8.7	5.0	5.7	4.0	6.0	6.3	
BAR LP 6164	99.0	89.3	7.7	8.3	5.3	6.0	4.7	6.0	6.3	

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
 2019 DATA

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

NAME	PERCENT GROUND COVER		QUALITY RATINGS						MEAN
	SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	
BELIZE 2 (GO-142)	99.0	92.7	7.0	6.7	5.7	6.7	5.7	6.3	6.3
SR 4700 (DLFPS-236/3543)	94.3	89.3	7.3	8.3	5.7	5.7	5.3	5.7	6.3
DLFPS-236/3544	99.0	79.7	8.0	8.0	6.7	5.3	4.7	5.3	6.3
FIESTA CINCO (DLFPS-236/3554)	99.0	79.7	7.7	8.0	6.0	5.7	4.3	6.3	6.3
PHARAOH	99.0	79.7	7.3	8.3	6.3	6.0	4.3	5.7	6.3
PL2	99.0	86.0	8.0	7.0	6.3	6.0	4.7	5.7	6.3
PST-2FOXY	99.0	75.0	8.3	7.7	6.7	5.3	4.3	5.3	6.3
APPLE 3GL (PPG-PR 339)	99.0	89.3	8.0	7.0	5.7	6.0	4.7	5.7	6.2
ASP0218 (A-6D)	99.0	99.0	8.3	7.0	6.0	5.3	5.0	5.3	6.2
BAR LP 6162	99.0	89.3	6.7	8.0	5.7	5.7	5.3	6.0	6.2
DLFPS-236/3552	99.0	76.3	8.0	7.7	6.3	5.0	4.7	5.3	6.2
PPG-PR 360	94.3	76.3	7.3	9.0	6.7	5.0	4.3	5.0	6.2
PPG-PR 370	99.0	89.3	8.0	8.7	5.7	4.7	4.7	5.3	6.2
SEABISCUIT	99.0	66.7	7.0	9.0	6.0	6.0	3.7	5.7	6.2
SIGNET	99.0	76.3	8.0	8.0	6.3	5.0	4.3	5.7	6.2
SLIDER LS (PPG-PR 241)	99.0	76.3	8.0	8.7	6.0	5.0	4.0	5.3	6.2
BAR LP 6117	99.0	89.3	7.0	7.3	5.3	5.7	4.7	6.3	6.1
CS-6	99.0	86.0	7.7	7.0	5.7	5.7	4.7	5.7	6.1
DLFPS-236/3540	99.0	76.3	7.3	7.0	6.0	5.3	5.0	5.7	6.1
DLFPS-236/3553	99.0	70.0	8.0	8.0	6.3	5.3	3.7	5.3	6.1
FASTBALL 3GL (PPG-PR 329)	99.0	83.0	7.0	6.7	6.3	6.0	4.7	5.7	6.1
NEXUS GT (SNX)	99.0	89.3	7.3	7.3	5.7	5.7	4.7	6.0	6.1
SILVER SPORT (PST-2CRP)	99.0	70.0	8.0	7.7	6.7	5.0	4.0	5.3	6.1
GRAY HAWK (PST-2FIND)	99.0	83.0	8.0	6.7	5.7	6.0	4.3	5.3	6.0
PST-2A2	99.0	79.7	8.0	8.3	5.3	4.7	4.0	5.7	6.0
PST-2BDT	99.0	83.0	7.7	7.3	5.3	5.7	4.3	5.7	6.0
PST-2MAY	99.0	79.7	8.0	7.7	5.3	5.7	4.0	5.3	6.0
ASP0117 (A-PR15)	99.0	70.0	7.3	7.3	6.3	5.0	4.0	5.3	5.9
CAYMAN (GO-143)	99.0	79.7	7.3	6.3	6.0	5.3	4.7	5.7	5.9
MRS-L-PR15	94.3	76.3	7.3	7.3	6.7	5.0	4.0	5.0	5.9
PARAGON 2 GLR (FP2)	99.0	66.7	7.7	7.7	6.3	4.7	3.7	5.3	5.9
PEPPER II (RAD-PR 103)	99.0	84.7	8.3	8.0	4.0	4.7	5.0	5.7	5.9
PST-2EGAD	99.0	79.7	7.3	8.0	4.7	5.3	4.3	5.7	5.9
PST-2PDA	99.0	76.3	8.0	8.0	5.0	5.3	3.7	5.3	5.9
SHIELD (02BS4)	99.0	70.0	8.0	7.0	6.3	5.3	3.7	5.3	5.9
ASP0118GL (A-4G)	99.0	76.3	6.7	7.3	6.3	5.0	4.0	5.3	5.8
DLFPS-238/3014	99.0	78.3	7.3	7.0	5.0	5.3	4.3	6.0	5.8
JR-123	99.0	70.0	7.3	7.0	6.3	5.7	3.7	5.0	5.8
JR-747	94.3	79.7	6.7	7.0	6.0	5.3	4.3	5.3	5.8
KARMA	94.3	75.0	8.7	8.3	5.0	4.3	4.0	4.7	5.8
MAN O WAR	99.0	70.0	6.7	7.3	6.0	5.7	3.7	5.7	5.8
NP-2	99.0	79.7	7.0	6.7	6.3	5.0	4.7	5.3	5.8
02BS2	99.0	66.7	8.0	6.7	6.3	4.7	3.7	4.7	5.7
DLFPS-236/3546	99.0	66.7	7.7	7.0	6.3	4.3	3.7	5.0	5.7
NP-3	99.0	70.0	7.7	7.0	6.0	4.7	4.0	5.0	5.7
PARADOX GLR (PPG-PR 331)	99.0	76.3	7.3	7.7	6.0	4.7	3.7	5.0	5.7
SR 4650	99.0	75.0	8.0	7.0	5.7	4.3	4.0	5.3	5.7

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
 2019 DATA

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

NAME	PERCENT GROUND COVER		QUALITY RATINGS						
	SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
TEE-ME-UP (BSP-25)	97.7	79.7	7.0	7.0	5.7	5.0	4.3	5.3	5.7
BAR LP 6159	99.0	75.0	7.3	8.0	4.7	4.0	4.0	5.0	5.5
DERBY XTREME	99.0	63.3	8.0	7.3	6.0	4.0	3.0	4.7	5.5
APR2612	94.3	76.3	7.0	6.0	5.7	4.7	4.3	4.7	5.4
GREEN SUPREME+ (AMP-R1)	99.0	79.7	6.7	6.7	5.0	4.7	4.3	5.3	5.4
LPB-SD-101	99.0	76.7	6.0	7.0	5.0	5.3	4.0	5.0	5.4
RAD-PR 112	99.0	79.7	6.7	7.0	4.7	4.7	4.3	5.3	5.4
HATRICK (BSP-17)	87.7	70.0	6.0	6.7	5.7	4.7	4.0	4.7	5.3
FIREBALL (BWH)	92.7	88.0	5.7	6.0	4.0	5.3	5.0	5.3	5.2
JR-888	99.0	70.0	6.3	6.7	4.7	5.0	3.7	4.7	5.2
LPB-SD-103	94.3	73.3	6.0	7.0	4.3	5.3	4.0	4.7	5.2
SAGUARO	99.0	76.3	5.7	6.3	5.3	4.3	4.0	4.7	5.1
ALLSTAR III	99.0	73.0	6.0	6.7	4.3	4.7	3.7	4.7	5.0
LPB-SD-102	94.3	66.7	5.0	5.7	4.7	4.7	3.7	4.3	4.7
LPB-SD-104	92.7	79.7	5.0	5.7	4.3	4.7	4.0	4.3	4.7
BRIGHTSTAR SLT	99.0	63.3	6.0	6.7	4.3	3.3	3.0	4.3	4.6
LPB-SD-105	85.0	75.0	4.7	5.0	4.7	4.3	4.0	4.3	4.5
MENSA	99.0	70.0	5.0	5.7	4.0	4.7	3.7	4.0	4.5
SAVANT	85.0	70.0	5.0	5.3	4.3	4.0	3.7	4.0	4.4
LINN	70.0	50.0	4.0	5.3	2.7	2.3	2.0	3.0	3.2
LSD VALUE	7.1	37.4	1.9	1.9	3.2	2.6	3.1	1.9	1.3
C.V. (%)	4.0	17.2	13.8	13.5	20.9	19.8	23.9	15.7	11.7

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 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG (TRAFFIC STUDY), VA 1/
2019 DATA

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

NAME	QUALITY RATINGS					QUALITY PRE TRAFFIC	PERCENT GREEN COVER PRE TRAFFIC	PERCENT BARE GROUND PRE TRAFFIC	QUALITY MIDTRAFFIC	PERCENT GREEN COVER POST TRAFFIC	PERCENT BARE GROUND POST TRAFFIC	QUALITY POST TRAFFIC	PERCENT GREEN COVER 2 WEEKS POST TRAFFIC	PERCENT BARE GROUND 2 WEEKS POST TRAFFIC	QUALITY 2 WEEKS POST TRAFFIC
	MAY	JUN	JUL	AUG	MEAN										
DLFPS-236/3542	8.3	8.7	6.0	7.3	7.6	7.3	96.0	3.3	7.0	91.0	8.3	7.0	94.3	5.0	7.0
XCELERATOR	7.7	8.7	7.0	7.3	7.7	7.3	99.0	0.0	7.0	97.7	1.7	7.0	97.7	1.7	7.0
BAR LP 6165	8.3	9.0	5.3	5.7	7.1	6.0	99.0	0.0	6.0	97.7	1.7	6.7	97.7	1.7	6.7
BELIZE 2 (GO-142)	7.0	6.7	5.7	6.7	6.5	6.7	96.0	3.3	6.7	92.7	6.7	6.7	96.0	3.3	6.7
DLFPS-236/3541	8.0	7.7	6.3	6.7	7.2	6.7	92.7	6.7	6.7	91.0	8.3	6.3	94.3	5.0	6.7
SUPERSTAR GL (PPG-PR 420)	8.7	8.3	6.7	6.3	7.5	6.3	99.0	0.0	6.3	97.7	1.7	6.7	94.7	5.0	6.7
PPG-PR 423	7.3	9.0	6.3	7.0	7.4	7.0	96.0	3.3	7.0	92.7	6.7	6.7	96.0	3.3	6.7
APR3060	8.3	7.7	6.0	6.3	7.1	6.3	96.0	3.3	6.3	92.7	6.7	6.3	96.0	3.3	6.3
BAR LP 6164	7.7	8.3	5.3	6.0	6.8	6.0	96.0	3.3	6.0	92.7	6.7	6.3	94.7	5.0	6.3
CPN	8.3	8.3	6.7	6.0	7.3	6.0	99.0	0.0	6.3	99.0	0.0	6.3	99.0	0.0	6.3
DLFPS-236/3538	8.0	8.7	7.0	6.3	7.5	6.3	99.0	0.0	6.3	99.0	0.0	6.3	99.0	0.0	6.3
DLFPS-236/3547	7.3	8.7	7.0	6.3	7.3	6.3	97.7	1.7	6.3	94.3	5.0	6.3	96.0	3.3	6.3
DLFPS-236/3548	7.7	8.0	5.7	6.7	7.0	6.7	94.7	5.0	6.7	88.0	11.7	6.3	93.0	6.7	6.3
GRAY WOLF (PST-2GAL)	8.0	8.0	6.7	6.3	7.3	6.3	96.0	3.3	6.3	92.7	6.7	6.3	96.0	3.3	6.3
HOMERUN LS (PPG-PR 419)	8.7	8.7	7.0	6.3	7.7	6.3	99.0	0.0	6.3	96.0	3.3	6.3	94.7	5.0	6.3
INTENSE	7.0	9.0	7.0	7.0	7.5	7.0	97.7	1.7	6.7	94.3	5.0	6.7	96.0	3.3	6.3
JR-197	6.7	9.0	7.0	6.0	7.2	6.0	99.0	0.0	6.0	97.7	1.7	6.3	97.7	1.7	6.3
OVERDRIVE 5G	7.7	8.7	6.0	6.0	7.1	6.0	99.0	0.0	6.0	97.7	1.7	6.3	97.7	1.7	6.3
PPG-PR 367	8.0	8.3	6.3	6.0	7.2	6.3	96.0	3.3	6.3	92.7	6.7	6.3	96.0	3.3	6.3
PPG-PR 371	8.3	8.3	7.0	6.3	7.5	6.3	96.0	3.3	6.3	92.7	6.7	6.3	94.7	5.0	6.3
PPG-PR 385	7.7	8.7	7.0	6.7	7.5	6.7	97.7	1.7	6.7	94.3	5.0	6.7	96.0	3.3	6.3
STELLAR 4GL (PPG-PR 424)	8.7	8.0	7.3	6.3	7.6	6.3	99.0	0.0	6.3	97.7	1.7	6.3	94.7	5.0	6.3
PR-6-15	8.0	8.0	6.0	6.0	7.0	6.0	99.0	0.0	6.3	99.0	0.0	6.3	99.0	0.0	6.3
PST-2GTD	8.0	8.3	6.3	6.3	7.3	6.3	96.0	3.3	6.3	92.7	6.7	6.3	96.0	3.3	6.3
SLUGGER 3GL (PPG-PR 343)	8.0	8.7	7.3	6.0	7.5	6.0	99.0	0.0	6.0	99.0	0.0	6.3	99.0	0.0	6.3
021	7.0	7.7	6.7	5.7	6.8	5.7	96.0	3.3	5.7	92.7	6.7	6.0	96.0	3.3	6.0
023	8.0	8.0	7.0	6.3	7.3	6.3	94.7	5.0	6.0	88.0	11.7	6.0	93.0	6.7	6.0
02BS1	8.0	8.0	7.0	6.0	7.3	6.0	96.0	3.3	6.0	91.3	8.3	6.0	94.7	5.0	6.0
APPLE 3GL (PPG-PR 339)	8.0	7.0	5.7	6.0	6.7	6.0	96.0	3.3	6.0	92.7	6.7	6.0	94.7	5.0	6.0
APR2616	8.0	8.3	7.0	5.7	7.3	5.7	96.0	3.3	5.7	92.7	6.7	6.0	96.0	3.3	6.0
ASP0116EXT	8.0	8.0	6.0	6.0	7.0	6.0	96.0	3.3	6.0	92.7	6.7	6.0	94.7	5.0	6.0
BAR LP 6117	7.0	7.3	5.3	5.7	6.3	5.7	96.0	3.3	6.0	92.7	6.7	6.0	96.0	3.3	6.0
BAR LP 6131	7.7	7.3	6.7	6.0	6.9	6.0	96.0	3.3	6.0	91.3	8.3	6.0	93.0	6.7	6.0
BAR LP 6158	8.3	8.7	5.0	5.7	6.9	5.7	93.0	6.7	5.7	83.3	16.7	6.0	90.0	10.0	6.0
BAR LP 6162	6.7	8.0	5.7	5.7	6.5	5.7	96.0	3.3	5.7	92.7	6.7	6.0	96.0	3.3	6.0
BAR LP 6233	8.0	9.0	6.3	6.3	7.4	6.3	93.0	6.7	6.0	86.3	13.3	6.0	93.0	6.7	6.0
DLFPS-236/3550	7.3	8.0	6.7	6.0	7.0	6.0	96.0	3.3	6.0	92.7	6.7	6.0	94.7	5.0	6.0
DLFPS-236/3554	7.7	8.0	6.0	5.7	6.8	5.7	93.0	6.7	5.7	84.7	15.0	6.0	93.0	6.7	6.0
DLFPS-238/3014	7.3	7.0	5.0	5.3	6.2	5.3	91.7	8.3	5.3	83.3	16.7	6.0	90.0	10.0	6.0
EVOLVE	8.0	7.3	7.0	6.0	7.1	6.0	94.7	5.0	6.3	88.0	11.7	6.0	93.0	6.7	6.0
FASTBALL 3GL (PPG-PR 329)	7.0	6.7	6.3	6.0	6.5	6.0	94.7	5.0	6.0	88.0	11.7	6.0	93.0	6.7	6.0
FURLONG (LTP-FCB)	7.7	8.7	6.3	6.3	7.3	6.3	97.7	1.7	6.0	92.7	6.7	6.0	96.0	3.3	6.0
GO-141	7.0	8.3	6.0	5.7	6.8	5.7	99.0	0.0	5.7	97.7	1.7	6.0	97.7	1.7	6.0
MRS�-PR16	8.0	7.7	5.7	6.0	6.8	6.0	96.0	3.3	6.0	92.7	6.7	6.0	96.0	3.3	6.0
NEXUS GT (SNX)	7.3	7.3	5.7	5.7	6.5	5.7	96.0	3.3	6.0	92.7	6.7	6.0	96.0	3.3	6.0
PHARAOH	7.3	8.3	6.3	6.0	7.0	6.0	91.3	8.3	6.0	83.0	16.7	6.0	89.7	10.0	6.0
PL2	8.0	7.0	6.3	6.0	6.8	6.0	96.0	3.3	5.7	91.0	8.3	6.0	94.3	5.0	6.0

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG (TRAFFIC STUDY), VA 1/
2019 DATA

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

NAME	QUALITY RATINGS					QUALITY PRE TRAFFIC	PERCENT GREEN COVER PRE TRAFFIC	PERCENT BARE GROUND PRE TRAFFIC	QUALITY MIDTRAFFIC	PERCENT GREEN COVER POST TRAFFIC	PERCENT BARE GROUND POST TRAFFIC	QUALITY POST TRAFFIC	PERCENT GREEN COVER 2 WEEKS POST TRAFFIC	PERCENT BARE GROUND 2 WEEKS POST TRAFFIC	QUALITY 2 WEEKS POST TRAFFIC
	MAY	JUN	JUL	AUG	MEAN										
PPG-PR 421	7.7	8.3	6.7	6.0	7.2	6.0	96.0	3.3	6.0	92.7	6.7	6.0	96.0	3.3	6.0
PPG-PR 422	8.0	9.0	6.3	6.0	7.3	6.0	99.0	0.0	6.0	99.0	0.0	6.0	99.0	0.0	6.0
PR-5-16	8.0	8.7	7.0	6.0	7.4	6.0	96.0	3.3	6.0	92.7	6.7	6.0	96.0	3.3	6.0
PST-2BDT	7.7	7.3	5.3	5.7	6.5	5.7	94.7	5.0	5.7	88.0	11.7	6.0	93.0	6.7	6.0
UMPQUA	7.0	9.0	6.7	6.0	7.2	6.0	94.7	5.0	6.0	88.0	11.7	6.0	93.0	6.7	6.0
ALLOY (RRT)	7.7	8.7	6.7	5.3	7.1	5.7	93.0	6.7	5.7	86.3	13.3	5.7	93.0	6.7	5.7
CAYMAN (GO-143)	7.3	6.3	6.0	5.3	6.3	5.3	93.0	6.7	5.3	86.3	13.3	5.7	93.0	6.7	5.7
DLFPS-236/3540	7.3	7.0	6.0	5.3	6.4	5.3	91.3	8.3	5.3	84.7	15.0	5.7	89.7	10.0	5.7
SR 4700 (DLFPS-236/3543)	7.3	8.3	5.7	5.7	6.8	5.7	92.7	6.7	5.7	91.0	8.3	5.7	94.3	5.0	5.7
DLFPS-236/3545	8.0	8.0	7.0	5.7	7.2	5.7	93.0	6.7	6.0	86.3	13.3	5.7	93.0	6.7	5.7
DLFPS-236/3556	7.7	8.3	6.3	6.0	7.1	6.0	94.3	5.0	6.0	89.3	10.0	6.0	92.7	6.7	5.7
GRAND SLAM GLD	8.3	8.0	6.7	5.7	7.2	5.7	96.0	3.3	5.7	91.3	8.3	5.7	93.0	6.7	5.7
GRAY HAWK (PST-2FIND)	8.0	6.7	5.7	6.0	6.6	6.0	94.7	5.0	5.7	88.0	11.7	5.7	93.0	6.7	5.7
PEPPER II (RAD-PR 103)	8.3	8.0	4.0	4.7	6.3	5.0	94.7	5.0	5.0	89.7	10.0	5.7	93.0	6.7	5.7
PPG-PR 372	8.3	9.0	7.0	5.7	7.5	5.7	96.0	3.3	5.7	92.7	6.7	5.7	96.0	3.3	5.7
PST-2EGAD	7.3	8.0	4.7	5.3	6.3	5.3	93.0	6.7	5.3	86.3	13.3	5.7	93.0	6.7	5.7
PST-2MAY	8.0	7.7	5.3	5.7	6.7	5.7	93.0	6.7	5.7	86.3	13.3	5.7	91.7	8.3	5.7
SEABISCUIT	7.0	9.0	6.0	6.0	7.0	6.0	90.0	10.0	5.7	78.3	21.7	5.7	88.3	11.7	5.7
ASP0218 (A-6D)	8.3	7.0	6.0	5.3	6.7	5.3	99.0	0.0	5.7	99.0	0.0	5.7	99.0	0.0	5.3
CS-6	7.7	7.0	5.7	5.7	6.5	5.7	94.3	5.0	5.7	89.3	10.0	5.3	92.7	6.7	5.3
DLFPS-236/3544	8.0	8.0	6.7	5.3	7.0	5.3	93.0	6.7	5.3	86.3	13.3	5.3	93.0	6.7	5.3
DLFPS-236/3552	8.0	7.7	6.3	5.0	6.8	5.0	91.3	8.3	5.0	83.0	16.7	5.3	89.7	10.0	5.3
DLFPS-236/3553	8.0	8.0	6.3	5.3	6.9	5.3	90.0	10.0	5.3	80.0	20.0	5.3	90.0	10.0	5.3
FIREBALL (BWH)	5.7	6.0	4.0	5.3	5.3	5.3	92.7	6.7	5.3	87.7	11.7	5.3	89.7	10.0	5.3
GREEN SUPREME+ (AMP-R1)	6.7	6.7	5.0	4.7	5.8	4.7	93.0	6.7	4.7	86.3	13.3	5.3	93.0	6.7	5.3
JR-123	7.3	7.0	6.3	5.7	6.6	5.7	86.7	13.3	5.3	76.7	23.3	5.3	85.0	15.0	5.3
JR-747	6.7	7.0	6.0	5.3	6.3	5.3	89.7	10.0	5.3	84.7	15.0	5.3	89.7	10.0	5.3
LPB-SD-101	6.0	7.0	5.0	5.3	5.8	5.3	93.0	6.7	5.0	81.7	18.3	5.0	85.0	15.0	5.3
MAN O WAR	6.7	7.3	6.0	5.7	6.4	5.7	90.0	10.0	5.7	78.3	21.7	5.3	86.7	13.3	5.3
NP-2	7.0	6.7	6.3	5.0	6.3	5.3	93.0	6.7	5.3	86.3	13.3	5.3	93.0	6.7	5.3
PPG-PR 370	8.0	8.7	5.7	4.7	6.8	4.7	96.0	3.3	4.7	92.7	6.7	5.3	94.7	5.0	5.3
PST-2A2	8.0	8.3	5.3	4.7	6.6	4.7	93.0	6.7	5.0	86.3	13.3	5.3	93.0	6.7	5.3
PST-2FOXY	8.3	7.7	6.7	5.3	7.0	5.3	91.7	8.3	5.3	81.7	18.3	5.3	90.0	10.0	5.3
PST-2PDA	8.0	8.0	5.0	5.3	6.6	5.3	91.3	8.3	5.3	83.0	16.7	5.3	89.7	10.0	5.3
RAD-PR 112	6.7	7.0	4.7	4.7	5.8	4.7	93.0	6.7	4.7	86.3	13.3	5.3	93.0	6.7	5.3
SHIELD (02BS4)	8.0	7.0	6.3	5.3	6.7	5.3	90.0	10.0	5.3	76.7	23.3	5.3	86.7	13.3	5.3
SPIKE GLS (UF3)	7.7	8.0	7.0	5.7	7.1	5.7	94.3	5.0	5.7	89.3	10.0	5.7	92.7	6.7	5.3
TEE-ME-UP (BSP-25)	7.0	7.0	5.7	5.0	6.2	5.0	93.0	6.7	5.0	84.7	15.0	5.3	91.3	8.3	5.3
ALLSTAR III	6.0	6.7	4.3	4.7	5.4	4.7	88.0	11.7	4.7	79.7	20.0	5.0	84.7	15.0	5.0
ASP0117 (A-PR15)	7.3	7.3	6.3	5.0	6.5	5.0	90.0	10.0	5.0	80.0	20.0	5.0	90.0	10.0	5.0
ASP0118GL (A-4G)	6.7	7.3	6.3	5.0	6.3	5.0	91.3	8.3	5.0	83.0	16.7	5.0	89.7	10.0	5.0
BAR LP 6159	7.3	8.0	4.7	4.0	6.0	4.0	91.3	8.3	4.0	81.7	18.3	5.0	86.7	13.3	5.0
JR-888	6.3	6.7	4.7	5.0	5.7	5.0	90.0	10.0	4.7	76.7	23.3	5.0	85.0	15.0	5.0
LPB-SD-103	6.0	7.0	4.3	5.3	5.7	5.3	86.7	13.3	5.0	78.3	21.7	5.0	86.7	13.3	5.0
MRSI-PR15	7.3	7.3	6.7	5.0	6.6	5.0	88.0	11.7	5.0	81.3	18.3	5.0	86.3	13.3	5.0
NP-3	7.7	7.0	6.0	4.7	6.3	4.7	90.0	10.0	4.7	80.0	20.0	5.0	90.0	10.0	5.0
PPG-PR 360	7.3	9.0	6.7	5.0	7.0	5.0	88.0	11.7	5.0	81.3	18.3	5.0	86.3	13.3	5.0

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG (TRAFFIC STUDY), VA 1/
2019 DATA

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

NAME	QUALITY RATINGS					QUALITY PRE TRAFFIC	PERCENT GREEN COVER PRE TRAFFIC	PERCENT BARE GROUND PRE TRAFFIC	QUALITY MIDTRAFFIC	PERCENT GREEN COVER POST TRAFFIC	PERCENT BARE GROUND POST TRAFFIC	QUALITY POST TRAFFIC	PERCENT GREEN COVER 2 WEEKS POST TRAFFIC	PERCENT BARE GROUND 2 WEEKS POST TRAFFIC	QUALITY 2 WEEKS POST TRAFFIC
	MAY	JUN	JUL	AUG	MEAN										
SIGNET	8.0	8.0	6.3	5.0	6.8	5.0	91.3	8.3	5.0	83.0	16.7	5.0	89.7	10.0	5.0
SILVER SPORT (PST-2CRP)	8.0	7.7	6.7	5.0	6.8	5.0	90.0	10.0	5.0	80.0	20.0	5.0	90.0	10.0	5.0
SLIDER LS (PPG-PR 241)	8.0	8.7	6.0	5.0	6.9	5.0	91.3	8.3	5.0	83.0	16.7	5.0	89.7	10.0	5.0
SR 4650	8.0	7.0	5.7	4.3	6.3	4.3	91.3	8.3	4.3	83.3	16.7	5.0	86.7	13.3	5.0
02BS2	8.0	6.7	6.3	4.7	6.4	4.7	88.3	11.7	4.7	78.3	21.7	4.7	88.3	11.7	4.7
APR2612	7.0	6.0	5.7	4.7	5.8	4.7	88.0	11.7	4.7	81.3	18.3	4.7	86.3	13.3	4.7
DLFPS-236/3546	7.7	7.0	6.3	4.3	6.3	4.3	88.3	11.7	4.3	78.3	21.7	4.7	88.3	11.7	4.7
HATRICK (BSP-17)	6.0	6.7	5.7	4.7	5.8	4.7	80.0	20.0	4.7	73.3	26.7	5.0	81.7	18.3	4.7
KARMA	8.7	8.3	5.0	4.3	6.6	4.3	88.0	11.7	4.3	80.0	20.0	4.7	83.3	16.7	4.7
LPB-SD-102	5.0	5.7	4.7	4.7	5.0	4.7	85.0	15.0	4.7	75.0	25.0	4.7	83.3	16.7	4.7
LPB-SD-104	5.0	5.7	4.3	4.7	4.9	4.7	88.0	11.7	4.7	81.3	18.3	4.7	84.7	15.0	4.7
PARADOX GLR (PPG-PR 331)	7.3	7.7	6.0	4.7	6.4	4.7	89.7	10.0	4.7	83.0	16.7	4.7	88.0	11.7	4.7
PARAGON 2 GLR (FP2)	7.7	7.7	6.3	4.7	6.6	4.7	88.3	11.7	4.7	78.3	21.7	4.7	86.7	13.3	4.7
SAGUARO	5.7	6.3	5.3	4.3	5.4	4.3	89.7	10.0	4.3	83.0	16.7	4.7	88.0	11.7	4.7
LPB-SD-105	4.7	5.0	4.7	4.3	4.7	4.3	81.7	18.3	4.3	72.3	27.7	4.3	78.3	21.7	4.3
MENSA	5.0	5.7	4.0	4.7	4.8	4.7	88.3	11.7	4.3	76.7	23.3	4.3	85.0	15.0	4.3
BRIGHTSTAR SLT	6.0	6.7	4.3	3.3	5.1	3.3	85.0	15.0	3.3	71.7	28.3	4.0	81.7	18.3	4.0
DERBY XTREME	8.0	7.3	6.0	4.0	6.3	4.0	83.3	16.7	4.0	73.3	26.7	4.0	80.0	20.0	4.0
SAVANT	5.0	5.3	4.3	4.0	4.7	4.0	78.3	21.7	4.0	68.3	31.7	4.0	76.7	23.3	4.0
LINN	4.0	5.3	2.7	2.3	3.6	2.3	65.0	35.0	2.3	55.0	45.0	3.0	58.3	41.7	3.0
LSD VALUE	1.9	1.9	3.2	2.6	1.3	2.7	12.2	13.0	2.6	23.7	24.8	2.3	14.2	15.0	2.2
C.V. (%)	13.8	13.5	20.9	19.8	11.1	20.1	6.5	97.0	19.8	11.9	84.7	17.2	7.6	90.0	17.1

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

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

TABLE 18.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON (TRAFFIC), WI 1/
 2019 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-236/3556	3.7	6.0	5.3	6.0	6.0	6.0	5.5
PPG-PR 423	3.7	5.0	4.7	6.0	5.7	5.3	5.1
STELLAR 4GL (PPG-PR 424)	4.0	5.0	4.7	6.0	5.3	5.3	5.1
DLFPS-236/3545	4.0	5.3	4.7	5.7	5.7	4.7	5.0
PST-2A2	3.7	5.0	5.3	5.3	5.0	5.7	5.0
DLFPS-236/3538	3.0	5.0	5.0	5.7	5.0	6.0	4.9
FIESTA CINCO (DLFPS-236/3554)	3.7	5.7	4.7	5.7	5.7	4.3	4.9
NP-3	4.0	5.3	4.3	5.0	5.3	5.3	4.9
PL2	4.0	5.7	4.3	5.7	5.7	4.0	4.9
PST-2GTD	3.7	4.3	4.7	6.0	5.3	5.3	4.9
BAR LP 6233	3.3	5.3	5.0	6.0	5.7	3.7	4.8
JR-197	3.0	4.3	4.7	5.3	5.0	5.7	4.7
OVERDRIVE 5G	3.0	5.0	4.3	5.7	5.3	5.0	4.7
PPG-PR 421	3.0	5.3	4.3	5.3	4.7	5.3	4.7
SAGUARO	3.7	4.0	5.0	5.3	5.0	5.3	4.7
023	3.3	4.7	3.7	5.3	5.0	5.7	4.6
ASP0117 (A-PR15)	3.0	5.0	4.3	5.0	4.7	5.3	4.6
PPG-PR 360	3.0	4.7	4.3	6.0	5.0	4.3	4.6
PPG-PR 367	3.0	3.7	4.0	5.7	5.7	5.7	4.6
SAVANT	4.0	4.7	4.3	5.0	4.7	5.0	4.6
SILVER SPORT (PST-2CRP)	3.7	4.7	4.0	5.3	5.0	5.0	4.6
ASP0218 (A-6D)	3.0	4.7	4.0	5.7	4.7	5.0	4.5
INTENSE	3.7	4.3	4.7	5.7	4.0	4.7	4.5
PR-5-16	3.0	4.7	4.0	5.7	5.3	4.3	4.5
CS-6	3.7	4.3	3.7	5.3	5.0	4.3	4.4
DLFPS-238/3014	2.7	4.0	4.0	5.7	5.0	5.3	4.4
EVOLVE	3.0	4.7	3.7	5.0	5.3	4.7	4.4
KARMA	2.7	4.3	5.0	5.0	4.7	5.0	4.4
NP-2	3.0	4.7	4.0	5.3	5.0	4.7	4.4
XCELERATOR	3.3	4.7	4.0	4.7	4.7	5.0	4.4
021	3.7	4.0	3.3	5.0	4.7	5.0	4.3
02BS2	3.0	4.3	3.7	5.0	5.0	5.0	4.3
ALLSTAR III	4.0	5.0	3.7	5.7	4.3	3.3	4.3
BAR LP 6131	2.7	4.3	4.0	5.3	5.3	4.3	4.3
BAR LP 6165	2.7	3.7	4.3	5.7	4.7	5.0	4.3
DLFPS-236/3544	2.7	4.7	3.7	5.0	4.7	5.0	4.3
DLFPS-236/3547	2.3	4.3	4.0	5.0	4.7	5.7	4.3
DLFPS-236/3548	2.7	4.0	4.0	5.3	4.7	5.0	4.3
DLFPS-236/3553	2.7	4.0	4.0	5.0	4.3	6.0	4.3
HOMERUN LS (PPG-PR 419)	2.7	4.3	4.7	4.7	4.3	5.0	4.3
PPG-PR 370	3.0	4.3	3.7	5.0	5.0	5.0	4.3
PPG-PR 422	3.7	3.7	3.3	5.3	5.0	5.0	4.3
PR-6-15	3.0	4.3	4.0	5.0	4.7	5.0	4.3
PST-2BDT	2.7	3.7	4.0	5.3	5.0	5.0	4.3
SLIDER LS (PPG-PR 241)	3.3	3.7	3.3	5.3	4.7	5.3	4.3
APR2612	3.3	3.7	3.7	5.0	5.0	4.3	4.2
FASTBALL 3GL (PPG-PR 329)	2.7	4.3	3.3	5.3	5.0	4.7	4.2

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON (TRAFFIC), WI 1/
2019 DATA

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

NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
LPB-SD-103	2.7	4.0	3.3	5.7	5.0	4.7	4.2
PST-2FOXY	3.3	4.0	3.7	5.0	5.0	4.0	4.2
PST-2PDA	2.7	4.0	3.7	5.3	5.0	4.3	4.2
SHIELD (02BS4)	2.7	4.3	3.7	5.3	4.7	4.3	4.2
ALLOY (RRT)	3.0	4.3	3.7	4.7	4.0	4.7	4.1
APPLE 3GL (PPG-PR 339)	2.3	3.7	3.3	5.3	4.7	5.0	4.1
APR2616	3.3	3.7	4.0	5.0	4.3	4.3	4.1
BELIZE 2 (GO-142)	2.7	4.3	4.0	5.7	4.0	4.0	4.1
DERBY XTREME	4.0	3.7	3.3	4.7	4.7	4.0	4.1
SR 4700 (DLFPS-236/3543)	2.7	3.7	3.7	4.7	4.7	5.3	4.1
MAN O WAR	3.3	3.7	4.0	4.7	4.3	4.7	4.1
MRS�-PR16	2.3	4.0	3.7	5.0	4.7	5.0	4.1
PARADOX GLR (PPG-PR 331)	3.0	3.7	3.7	5.0	4.7	4.3	4.1
PHARAOH	2.7	3.7	4.0	5.3	4.7	4.3	4.1
PPG-PR 385	3.0	4.0	4.7	5.0	4.3	3.7	4.1
SIGNET	2.3	4.3	4.3	4.7	4.3	4.7	4.1
BAR LP 6164	2.7	4.0	3.7	4.7	4.3	4.7	4.0
CPN	3.0	3.7	3.3	5.0	4.3	4.7	4.0
ALLSTAR FORE (DLFPS-236/3541)	2.7	4.3	3.7	4.0	4.7	4.7	4.0
DLFPS-236/3552	2.7	3.7	4.3	5.0	4.3	4.0	4.0
FURLONG (LTP-FCB)	2.7	3.7	3.7	4.3	4.3	5.3	4.0
02BS1	2.7	3.7	3.3	4.3	5.0	4.7	3.9
APR3060	2.3	3.3	3.7	5.3	4.3	4.7	3.9
BAR LP 6158	2.3	3.7	3.0	5.0	4.3	5.0	3.9
BRIGHTSTAR SLT	2.7	3.3	3.7	5.3	4.0	4.3	3.9
DLFPS-236/3546	2.7	4.0	3.3	4.7	4.7	4.3	3.9
GO-141	2.3	4.3	4.0	5.0	4.0	4.0	3.9
GRAY HAWK (PST-2FIND)	2.7	3.7	3.3	5.0	4.7	4.0	3.9
HATRICK (BSP-17)	2.7	4.3	4.0	4.3	4.0	4.3	3.9
MRS�-PR15	3.0	4.3	3.3	4.3	4.0	4.7	3.9
PARAGON 2 GLR (FP2)	2.3	4.0	3.3	4.7	4.3	4.7	3.9
PPG-PR 371	2.3	3.3	3.7	5.0	4.7	4.3	3.9
SUPERSTAR GL (PPG-PR 420)	2.7	3.7	3.7	5.0	4.3	4.3	3.9
SEABISCUIT	2.7	3.3	4.0	4.3	4.3	4.7	3.9
TEE-ME-UP (BSP-25)	2.7	3.7	3.3	4.3	4.3	5.0	3.9
UMPQUA	3.0	3.7	3.0	5.0	4.7	4.3	3.9
DLFPS-236/3540	2.7	2.7	3.0	5.0	5.3	4.0	3.8
JR-888	2.7	3.7	3.7	4.7	4.0	4.3	3.8
MENSA	2.7	3.3	3.7	5.0	4.0	4.0	3.8
PST-2EGAD	2.7	3.3	3.3	5.0	4.0	4.7	3.8
SPIKE GLS (UF3)	2.7	3.3	3.7	4.3	4.0	5.0	3.8
SR 4650	3.0	3.3	3.3	4.0	4.3	5.0	3.8
BAR LP 6159	2.3	3.3	3.3	5.0	4.0	4.0	3.7
PPG-PR 372	2.0	3.3	3.0	4.7	4.3	4.7	3.7
PST-2MAY	2.3	3.3	3.7	4.3	4.0	4.7	3.7
FIREBALL (BWH)	2.0	3.3	3.0	4.3	4.0	5.0	3.6
LPB-SD-101	2.3	2.3	3.3	4.7	4.3	4.3	3.6

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON (TRAFFIC), WI 1/
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PEPPER II (RAD-PR 103)	2.3	3.0	3.3	4.7	4.0	4.0	3.6
ASP0118GL (A-4G)	2.3	3.3	3.3	4.7	4.0	3.3	3.5
DLFPS-236/3542	2.7	3.3	3.0	4.0	3.7	4.3	3.5
BAR LP 6117	2.0	2.3	3.3	4.3	4.3	4.0	3.4
DLFPS-236/3550	2.7	3.7	3.0	4.3	3.7	3.3	3.4
GRAND SLAM GLD	2.0	3.0	3.0	4.3	4.0	4.0	3.4
LPB-SD-105	2.0	2.7	3.3	4.0	4.0	4.7	3.4
NEXUS GT (SNX)	2.3	3.0	3.0	4.7	3.3	4.0	3.4
SLUGGER 3GL (PPG-PR 343)	2.3	3.3	3.3	4.0	3.3	4.0	3.4
GRAY WOLF (PST-2GAL)	2.0	3.0	2.7	4.0	4.0	4.3	3.3
ASP0116EXT	2.0	3.0	2.7	4.0	3.7	3.7	3.2
BAR LP 6162	2.3	2.7	3.0	3.7	4.0	3.7	3.2
LPB-SD-102	2.3	2.7	3.0	4.3	3.3	3.7	3.2
RAD-PR 112	1.7	2.3	3.3	4.0	4.0	4.0	3.2
LPB-SD-104	1.7	2.7	2.7	3.7	3.3	4.0	3.0
CAYMAN (GO-143)	2.0	2.7	2.7	3.7	3.0	3.3	2.9
GREEN SUPREME+ (AMP-R1)	1.7	2.3	2.0	3.7	3.7	4.0	2.9
JR-123	2.3	2.7	2.3	3.7	3.7	3.0	2.9
JR-747	1.7	2.0	2.3	3.3	3.0	3.7	2.7
LINN	1.7	2.3	2.0	4.0	2.7	3.0	2.6
LSD VALUE	4.5	2.5	2.7	3.8	2.4	2.1	1.8
C.V. (%)	35.7	28.0	26.0	20.3	20.0	19.1	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.