

TABLE 1.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT FRESNO, CA 1/
2018 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS												MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BAR LP 6162	7.0	7.7	7.7	7.7	7.3	7.0	6.7	6.0	5.7	6.0	7.0	7.0	7.7	7.3	6.9
HATRICK (BSP-17)	5.3	5.0	7.3	8.3	7.3	7.3	6.7	6.7	6.0	6.0	6.7	6.7	7.0	6.7	6.9
HOMERUN LS (PPG-PR 419)	7.7	7.0	8.0	8.0	7.7	7.0	7.0	5.7	5.7	5.7	6.3	6.3	7.7	7.7	6.9
GRAY HAWK (PST-2FIND)	6.3	5.7	7.7	7.7	6.7	6.7	6.7	6.0	6.3	6.0	6.3	7.0	7.3	6.7	6.8
DLFPS-236/3540	5.7	7.3	7.3	7.3	8.0	6.3	6.3	5.7	5.3	6.0	7.0	7.3	7.3	6.7	6.7
DLFPS-236/3542	7.7	7.7	7.3	7.3	7.0	6.7	7.0	6.3	5.7	6.0	6.7	6.3	7.0	6.7	6.7
DLFPS-236/3544	4.7	5.0	7.3	7.0	6.7	6.7	7.0	6.3	6.3	6.3	6.7	7.3	6.7	6.0	6.7
DLFPS-236/3550	6.3	6.0	7.7	8.0	7.7	7.0	7.0	5.7	5.7	5.3	6.0	6.3	7.0	7.0	6.7
GO-141	6.0	6.7	7.0	7.7	7.3	6.7	7.0	6.7	5.7	6.0	6.7	6.7	6.7	6.3	6.7
JR-747	4.7	5.0	8.3	8.3	7.0	6.3	7.0	5.3	5.0	6.3	6.7	7.3	7.0	6.0	6.7
ASP0117 (A-PR15)	6.7	7.3	7.3	8.0	8.0	6.7	7.0	5.3	4.7	6.0	6.3	6.7	6.7	7.0	6.6
ASP0218 (A-6D)	7.0	7.3	7.3	7.3	7.3	7.0	6.7	5.7	6.0	5.7	6.0	6.3	6.7	7.0	6.6
BAR LP 6117	6.7	5.7	7.3	7.0	7.0	6.3	6.7	5.7	5.7	6.0	6.7	7.3	7.0	7.0	6.6
PPG-PR 385	7.7	8.0	7.3	8.3	7.7	7.0	6.3	4.7	5.0	5.0	6.3	7.3	6.7	7.0	6.6
APR2616	6.7	6.3	7.0	7.7	7.0	7.0	7.7	6.0	5.3	5.7	6.0	6.0	6.7	6.3	6.5
ASP0116EXT	6.7	6.3	6.3	7.0	7.0	7.0	6.3	6.0	5.3	5.7	6.3	7.0	7.0	6.7	6.5
TEE-ME-UP (BSP-25)	6.3	7.0	7.7	8.0	7.3	6.7	7.0	5.3	5.3	5.3	5.7	5.7	7.0	7.3	6.5
CS-6	6.0	5.7	7.0	7.3	7.3	7.0	7.0	5.0	5.3	5.7	6.0	6.3	7.0	6.7	6.5
DLFPS-236/3556	6.3	7.0	7.3	7.3	7.7	6.7	7.0	6.0	5.7	5.0	6.0	6.0	7.0	6.0	6.5
GO-142	6.0	6.7	8.3	8.0	7.3	7.0	7.3	5.3	5.3	4.7	6.0	6.0	7.0	6.0	6.5
PPG-PR 367	7.0	7.0	7.3	8.0	7.3	7.3	6.7	5.7	5.3	5.0	5.7	5.7	7.3	6.7	6.5
023	7.0	6.3	6.7	7.3	7.3	7.0	7.0	5.7	5.7	5.3	5.7	6.0	6.3	6.3	6.4
BAR LP 6158	6.0	6.3	7.0	7.3	7.0	6.7	7.0	6.0	5.0	5.0	6.0	6.0	6.7	6.7	6.4
BAR LP 6164	6.7	5.7	7.7	7.3	7.3	6.3	6.7	6.0	5.0	5.0	6.0	6.0	7.0	6.3	6.4
BAR LP 6165	5.7	5.7	7.3	7.0	6.7	6.7	7.0	5.7	5.7	5.7	5.7	6.0	7.3	6.3	6.4
CPN	5.7	6.7	8.0	8.0	7.3	6.3	5.7	5.7	5.0	5.3	6.0	6.0	7.0	6.7	6.4
DLFPS-236/3553	6.3	7.3	7.0	7.3	6.7	5.7	6.7	5.7	6.0	5.3	6.3	7.0	7.0	6.3	6.4
INTENSE	4.7	6.0	7.7	7.0	7.3	7.0	7.0	5.3	4.7	5.7	6.0	7.0	6.7	5.7	6.4
MRS�-PR15	7.0	8.0	6.7	7.7	7.3	6.7	6.3	5.0	5.7	5.7	6.0	6.0	6.7	6.7	6.4
PPG-PR 370	6.3	5.7	7.7	8.3	7.3	7.0	6.7	4.7	5.0	5.0	5.7	6.0	6.7	6.3	6.4
PPG-PR 424	6.3	5.7	7.3	7.7	7.0	7.3	6.3	5.3	5.3	5.7	5.7	5.3	6.7	6.7	6.4
SR 4650	5.7	6.3	7.3	7.3	7.0	6.3	7.0	5.3	5.7	5.3	6.0	6.3	6.7	6.3	6.4
UMPQUA	6.0	5.3	6.7	7.3	7.3	7.0	6.7	6.0	5.3	5.7	6.0	6.3	6.7	6.0	6.4
BAR LP 6233	6.0	5.7	7.0	7.7	6.7	6.3	6.7	5.3	5.0	5.0	6.3	6.3	7.0	6.3	6.3
GRAY WOLF (PST-2GAL)	6.7	5.3	7.0	7.0	6.0	6.3	6.7	5.7	5.3	5.7	5.7	6.7	6.7	6.3	6.3
LPB-SD-105	6.3	7.3	7.0	7.3	6.7	6.7	6.7	6.3	5.0	5.0	6.0	6.3	6.7	6.3	6.3
PPG-PR 420	6.7	6.3	7.0	8.0	7.7	7.0	6.3	5.7	5.3	5.0	5.3	5.7	6.3	6.3	6.3
PPG-PR 421	6.7	6.3	7.3	8.0	8.0	7.3	7.0	5.0	4.3	4.3	5.0	6.3	6.3	6.7	6.3
PST-2FOXY	5.3	5.7	7.0	7.3	7.0	6.7	6.7	5.3	5.3	5.3	6.0	6.0	6.3	6.3	6.3
SAGUARO	6.7	7.7	6.3	6.7	7.3	6.3	7.0	5.3	5.3	5.3	6.3	6.7	6.3	6.7	6.3
SAVANT	5.3	5.3	6.3	7.0	6.7	7.0	6.7	5.7	5.0	5.7	6.0	6.0	6.7	6.3	6.3
SHIELD (02BS4)	6.3	6.0	6.7	7.7	7.0	6.7	6.3	5.7	5.3	5.3	6.0	6.0	6.3	6.0	6.3
XCELERATOR	4.3	3.7	7.7	7.7	6.7	5.7	6.3	5.3	5.3	5.3	6.0	6.3	6.7	6.0	6.3
02BS1	5.3	5.3	7.3	7.7	6.7	7.0	6.7	5.3	5.3	5.0	5.3	5.7	6.0	6.3	6.2
APR2612	5.7	4.7	6.3	6.7	6.7	6.7	5.7	6.0	4.7	5.3	6.0	6.0	7.0	7.0	6.2
DLFPS-236/3546	7.7	5.7	7.0	7.7	7.0	6.0	6.0	4.7	4.7	5.0	5.7	6.0	7.3	7.0	6.2
DLFPS-236/3552	7.3	6.3	7.0	7.3	7.3	7.0	6.3	5.3	5.3	5.3	5.7	5.7	6.0	6.0	6.2

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

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			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
GRAND SLAM GLD	7.3	6.7	7.3	7.7	7.0	6.3	6.0	5.3	5.3	4.7	5.3	5.3	6.7	7.0	6.2
LPB-SD-101	7.3	7.3	7.3	7.7	7.3	6.7	6.7	5.7	5.0	5.0	5.7	5.7	5.7	6.0	6.2
OVERDRIVE 5G	6.3	6.3	7.3	7.3	7.0	6.3	6.7	5.7	5.3	5.0	5.3	5.7	6.7	6.3	6.2
PST-2GTD	6.3	6.0	7.0	7.3	7.0	6.3	6.0	5.3	5.3	5.3	6.0	6.0	6.3	6.0	6.2
DLFPS-236/3548	5.0	6.0	6.7	7.0	6.3	7.0	7.0	5.0	5.0	5.0	5.7	5.7	6.7	6.3	6.1
PARAGON 2 GLR (FP2)	6.3	6.3	7.0	7.3	6.7	6.0	5.7	5.3	5.3	5.3	5.3	6.0	6.3	6.3	6.1
JR-123	4.0	5.3	6.3	6.3	7.0	6.7	6.3	5.7	5.7	5.3	6.0	6.0	6.0	5.7	6.1
MENSA	6.7	7.7	6.7	7.3	7.3	6.3	6.7	5.3	5.0	4.7	5.7	6.0	6.3	6.3	6.1
NP-3	6.3	6.7	7.0	7.7	7.0	7.0	7.0	5.0	4.7	5.0	5.7	6.0	5.7	6.0	6.1
PPG-PR 372	5.7	6.3	7.0	7.0	6.7	6.3	6.7	6.0	5.3	4.7	5.7	6.0	6.0	5.7	6.1
PR-5-16	5.7	6.0	7.3	7.3	7.0	6.3	6.3	4.7	4.7	4.7	5.3	5.7	6.7	6.7	6.1
PST-2A2	5.7	6.0	7.0	7.3	7.0	6.3	6.0	5.7	5.3	5.0	5.7	5.7	6.0	6.0	6.1
PST-2EGAD	5.7	5.7	7.3	7.7	6.7	7.0	7.3	5.3	4.7	5.0	5.3	5.3	6.0	6.0	6.1
SEABISCUIT	5.3	6.0	7.3	7.7	6.7	6.3	6.0	4.7	5.0	4.7	6.0	6.0	7.0	6.3	6.1
SIGNET	5.0	5.7	6.0	6.3	6.7	7.3	6.3	5.3	4.7	5.3	6.0	6.3	6.3	6.3	6.1
SPIKE GLS (UF3)	5.0	6.0	6.7	7.0	7.3	7.0	6.0	5.0	5.3	5.3	5.7	5.3	6.3	6.3	6.1
021	5.7	5.0	6.7	7.0	7.0	6.3	6.7	5.0	5.0	4.7	5.3	5.3	6.7	6.3	6.0
GO-143	6.0	6.3	7.3	7.0	6.3	6.7	6.7	5.7	4.7	4.7	5.7	6.0	5.7	5.7	6.0
PPG-PR 422	6.3	5.3	7.0	7.3	7.0	7.0	5.7	5.0	5.0	5.3	5.0	5.3	6.3	5.7	6.0
PPG-PR 423	6.7	6.3	7.0	7.0	6.3	6.3	6.3	5.0	5.0	5.0	5.3	5.7	6.3	6.3	6.0
ASP0118GL (A-4G)	7.0	5.7	6.7	6.3	6.3	5.7	6.0	5.3	5.0	5.3	5.7	6.0	5.7	6.3	5.9
BAR LP 6131	6.3	6.0	7.0	6.7	7.0	6.7	7.0	4.7	4.7	4.3	5.3	5.3	6.0	5.7	5.9
BAR LP 6159	6.3	5.3	7.3	7.7	6.7	6.3	6.7	5.0	5.0	5.0	5.0	5.0	6.0	5.7	5.9
LPB-SD-103	6.0	6.0	6.0	6.0	6.3	6.0	5.7	4.7	5.3	5.7	5.7	5.7	7.0	7.0	5.9
PL2	5.7	5.7	7.0	7.7	7.0	6.7	5.7	4.0	4.7	4.7	5.7	5.7	6.3	6.0	5.9
PR-6-15	6.0	7.0	7.3	7.0	6.3	6.0	6.3	4.7	4.7	5.0	5.3	5.3	6.7	6.0	5.9
PST-2MAY	6.0	5.7	6.0	6.7	6.3	7.0	6.3	4.7	5.3	5.0	5.3	5.7	6.3	6.3	5.9
PST-2PDA	6.7	6.3	7.3	7.7	6.7	6.3	6.3	5.0	5.0	4.3	5.0	5.0	5.3	6.3	5.9
SLIDER LS (PPG-PR 241)	5.3	5.7	7.0	7.0	7.0	7.3	6.3	5.3	4.7	4.3	5.0	5.3	6.0	5.3	5.9
SNX	7.0	6.7	6.3	8.3	6.7	6.3	6.3	5.0	4.3	4.7	5.0	5.7	6.0	5.7	5.9
ALLSTAR III	6.7	6.3	6.7	7.0	6.7	6.7	6.3	5.0	4.3	4.3	5.3	5.3	6.0	5.7	5.8
FIREBALL (BWH)	6.7	6.3	7.3	7.0	7.0	6.7	6.3	4.7	4.7	4.3	5.3	5.3	5.7	5.3	5.8
DLFPS-236/3538	6.3	6.3	7.0	6.7	7.0	6.7	6.7	5.3	4.7	4.7	5.0	5.0	5.7	5.7	5.8
EVOLVE	6.0	7.3	6.7	6.7	6.7	6.0	6.7	4.7	4.3	4.7	5.7	5.7	6.0	6.0	5.8
KARMA	7.0	6.0	7.7	7.3	7.3	6.7	6.0	4.3	4.3	4.0	4.7	5.0	6.0	6.7	5.8
LPB-SD-102	7.0	6.0	6.7	7.3	7.0	6.0	5.3	4.7	5.0	4.7	5.3	5.3	6.0	6.3	5.8
LPB-SD-104	6.0	5.7	6.3	6.3	6.3	6.3	5.7	4.7	4.7	5.0	5.3	5.7	6.3	6.3	5.8
NP-2	7.0	7.0	6.7	6.7	6.7	6.3	6.7	5.7	4.7	4.3	5.0	5.0	6.0	5.7	5.8
GREEN SUPREME+ (AMP-R1)	5.0	4.7	6.0	7.0	7.0	6.0	5.7	4.7	4.3	5.0	5.3	5.7	6.0	6.0	5.7
DLFPS-236/3547	5.7	5.3	6.3	6.3	6.3	6.0	6.3	5.3	4.7	5.0	5.3	5.3	6.0	5.7	5.7
DLFPS-236/3554	6.0	6.7	6.0	6.0	7.3	6.3	5.7	5.3	4.7	4.7	5.3	5.7	5.7	5.7	5.7
DLFPS-238/3014	6.3	6.3	6.7	6.7	6.0	5.7	6.0	4.7	5.3	5.0	5.3	5.7	5.7	6.0	5.7
JR-888	2.3	2.3	7.0	6.7	6.3	5.3	5.3	4.0	4.3	4.7	6.3	6.3	7.0	5.3	5.7
MRSL-PR16	8.7	8.0	5.7	6.3	6.7	6.0	6.3	5.0	4.3	5.0	5.7	5.7	6.0	6.0	5.7
PHARAOH	6.7	7.0	6.3	7.0	6.7	6.3	6.0	4.7	4.7	4.7	5.0	5.0	5.7	6.3	5.7
SILVER SPORT (PST-2CRP)	6.7	6.7	7.3	7.0	7.0	6.7	6.7	4.7	4.3	4.0	4.7	5.0	5.7	5.3	5.7
DLFPS-236/3541	3.7	4.3	6.7	6.3	6.0	6.0	5.3	4.3	4.3	5.0	6.0	6.0	5.7	5.3	5.6

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	COLOR	GREENUP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
JR-197	7.0	6.3	6.7	7.3	6.7	6.3	6.0	4.3	4.3	4.7	5.0	5.0	5.7	5.7	5.6
LINN	6.3	4.7	6.0	6.7	6.3	6.0	5.7	5.0	4.7	4.7	5.0	5.3	6.0	5.3	5.6
MAN O WAR	7.3	7.3	6.3	6.3	6.0	5.3	6.0	5.0	4.3	5.0	5.3	5.3	6.3	6.3	5.6
PEPPER II (RAD-PR 103)	5.3	5.7	6.0	6.3	7.3	5.7	6.0	5.0	5.0	4.3	5.3	5.0	5.7	5.7	5.6
PST-2BDT	5.7	7.3	6.3	6.7	6.0	5.3	5.0	5.0	4.7	4.7	5.3	5.3	6.7	6.3	5.6
DERBY XTREME	4.0	5.7	7.0	7.3	6.7	6.0	6.3	4.7	5.0	4.3	4.7	4.7	5.0	4.7	5.5
DLFPS-236/3543	5.0	5.7	6.7	6.7	6.7	6.3	6.0	5.0	4.3	3.7	5.0	5.0	5.3	5.3	5.5
FURLONG (LTP-FCB)	6.7	5.7	6.3	7.0	6.3	6.3	6.3	5.0	4.3	4.3	4.7	4.7	5.3	5.3	5.5
PPG-PR 371	4.7	5.0	6.7	6.7	6.0	5.7	5.3	4.7	4.3	4.7	5.3	5.7	5.7	5.3	5.5
APPLE 3GL (PPG-PR 339)	5.3	5.3	6.3	6.3	6.3	6.0	5.7	4.3	4.3	4.7	4.7	5.0	5.3	5.3	5.4
DLFPS-236/3545	8.3	8.7	5.7	6.0	6.0	6.3	6.3	4.7	4.3	3.7	5.0	5.0	5.7	5.7	5.4
RAD-PR 112	3.7	4.3	8.0	8.7	7.7	6.3	5.0	4.7	4.0	3.3	3.7	3.7	4.7	4.7	5.4
BRIGHTSTAR SLT	5.7	5.7	6.0	6.3	6.3	5.7	5.7	4.3	4.0	4.0	4.7	4.7	5.3	5.0	5.2
PARADOX GLR (PPG-PR 331)	4.3	4.3	7.3	7.3	6.3	5.3	5.0	4.0	3.7	3.7	4.7	4.7	4.7	4.7	5.1
APR3060	5.7	5.0	5.0	5.3	5.0	5.0	4.7	4.7	4.3	4.3	5.3	5.3	5.3	5.3	5.0
ALLOY (RRT)	4.0	3.3	7.0	6.7	5.3	5.0	4.7	4.0	3.7	3.3	4.3	4.7	5.3	4.7	4.9
SLUGGER 3GL (PPG-PR 343)	5.3	5.3	6.3	5.7	5.3	4.3	4.7	4.3	4.0	4.0	4.7	5.0	5.3	4.7	4.9
PPG-PR 360	5.0	5.3	5.7	6.0	5.0	5.3	4.7	4.0	4.3	4.0	4.3	4.3	5.0	5.0	4.8
O2BS2	5.3	5.3	5.0	5.3	5.3	5.0	5.3	4.3	4.0	3.7	4.0	4.0	4.7	4.7	4.6
FASTBALL 3GL (PPG-PR 329)	1.0	2.0	6.3	5.3	4.3	4.0	3.7	3.0	3.3	3.7	4.7	5.0	5.0	4.0	4.4
LSD VALUE	1.4	1.7	4.4	3.8	2.2	2.3	1.9	2.3	2.3	2.3	2.3	2.3	2.8	2.1	1.4
C.V. (%)	14.3	16.8	15.1	15.0	12.8	13.7	13.9	17.1	16.6	18.2	15.8	16.6	15.5	14.6	10.7

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 2.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS OF THE SALT TREATMENT				QUALITY RATINGS OF THE CONTROL				PERCENT OF QUALITY (TREATMENT OVER CONTROL)			
	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS
021	8.6	7.3	6.6	6.7	8.2	7.8	8.2	8.4	104.6	93.9	81.1	79.4
HATRICK (BSP-17)	8.5	7.2	6.6	6.5	8.1	7.8	8.2	8.3	105.1	93.1	81.1	78.2
TEE-ME-UP (BSP-25)	8.6	7.1	6.6	6.3	8.1	7.7	8.2	8.3	106.4	92.1	80.7	76.1
FIREBALL (BWH)	8.6	7.2	6.3	6.3	8.2	7.8	8.2	8.3	105.9	92.1	77.8	76.1
DLFPS-236/3541	8.3	6.9	6.4	6.3	8.0	7.7	8.2	8.3	104.0	90.1	78.6	75.9
LPB-SD-101	8.7	7.2	6.6	6.3	8.2	7.8	8.2	8.3	106.3	92.7	80.7	76.1
SIGNET	8.2	7.0	6.7	6.3	8.1	7.8	8.2	8.3	102.2	91.4	82.6	76.1
EVOLVE	8.3	6.7	6.4	6.2	8.0	7.6	8.2	8.3	104.3	88.4	78.7	73.9
INTENSE	8.5	7.1	6.5	6.2	8.2	7.7	8.2	8.3	104.6	91.2	79.5	73.9
LPB-SD-103	8.6	7.2	6.4	6.2	8.1	7.8	8.2	8.3	106.4	92.2	78.6	74.0
LPB-SD-104	8.5	7.1	6.3	6.2	8.2	7.7	8.2	8.3	104.5	92.4	77.8	73.9
MENSA	8.4	7.2	6.7	6.2	8.2	7.8	8.2	8.3	102.9	92.7	82.7	73.9
MRSL-PR15	8.3	6.9	6.3	6.2	8.1	7.6	8.2	8.3	102.1	92.0	77.8	74.0
PL2	8.3	6.9	6.4	6.2	8.1	7.7	8.2	8.3	102.1	90.9	78.7	73.9
SR 4650	8.1	6.7	6.0	6.2	8.1	7.9	8.2	8.3	100.1	85.7	73.6	74.0
BAR LP 6117	8.3	6.4	5.9	6.0	7.9	7.8	8.2	8.3	105.5	82.8	72.8	71.8
BAR LP 6165	7.9	6.5	6.1	6.0	7.8	7.4	8.1	8.2	101.4	88.8	75.9	74.0
DLFPS-236/3540	8.4	7.3	6.5	6.0	8.3	7.8	8.2	8.3	101.6	93.3	79.5	72.0
DLFPS-236/3542	8.4	7.3	6.3	6.0	8.3	7.7	8.2	8.3	102.0	94.2	77.8	72.0
DLFPS-236/3543	8.3	6.9	6.4	6.0	7.9	7.7	8.2	8.3	105.3	89.3	78.2	72.0
DLFPS-236/3544	8.5	7.2	6.4	6.0	8.2	7.8	8.2	8.3	103.7	92.9	78.6	72.0
DLFPS-236/3545	8.3	6.7	6.4	6.0	7.6	7.5	8.1	7.8	108.4	90.5	78.8	77.6
DLFPS-236/3553	8.1	6.6	6.2	6.0	8.1	7.8	8.2	8.3	100.1	84.9	75.7	72.2
HOMERUN LS (PPG-PR 419)	8.3	6.7	6.2	6.0	8.1	7.6	8.2	8.3	103.7	89.5	76.5	72.0
JR-888	8.2	6.8	6.4	6.0	7.9	7.6	8.2	8.3	104.1	90.8	78.7	72.0
LPB-SD-102	8.6	7.3	6.5	6.0	8.2	7.8	8.2	8.3	105.0	93.0	79.5	72.0
LPB-SD-105	8.5	7.2	6.4	6.0	8.2	7.7	8.2	8.3	103.3	94.0	78.6	72.0
PPG-PR 371	8.4	6.7	6.0	6.0	8.0	7.8	8.2	8.3	104.6	86.4	73.7	72.1
PPG-PR 372	8.2	6.7	6.1	6.0	8.0	7.7	8.2	8.3	102.8	86.9	74.5	72.1
PPG-PR 420	8.4	6.8	6.2	6.0	8.0	7.7	8.2	8.3	104.5	89.0	76.5	72.0
PR-5-16	8.0	6.6	6.0	6.0	8.0	7.8	8.2	8.3	100.5	85.6	73.2	72.3
SAGUARO	8.5	7.2	6.4	6.0	8.3	7.8	8.2	8.3	102.5	92.6	78.6	72.0
SNX	8.2	6.8	6.5	6.0	8.0	7.7	8.2	8.3	103.0	87.9	79.5	72.0
DLFPS-236/3538	8.3	6.8	5.9	5.8	8.0	7.7	8.2	8.3	104.1	89.1	72.8	70.0
DLFPS-236/3554	8.2	6.6	6.2	5.8	8.1	7.8	8.2	8.3	101.0	85.7	75.7	70.2
GRAND SLAM GLD	8.2	6.6	6.0	5.8	7.9	7.7	8.2	8.3	103.5	86.3	73.6	70.0
MRSL-PR16	8.3	6.9	6.4	5.8	8.0	7.6	8.2	8.3	103.9	91.3	78.6	69.9
PPG-PR 424	8.2	6.8	6.1	5.8	8.2	7.8	8.2	8.3	100.9	88.2	74.5	70.0
PST-2A2	8.2	6.6	6.1	5.8	8.1	7.7	8.2	8.3	100.9	86.0	75.3	70.1
PST-2BDT	7.7	6.6	6.0	5.8	8.1	7.3	8.1	8.2	95.8	90.9	74.7	71.8
PST-2MAY	8.2	6.7	6.1	5.8	8.2	7.7	8.2	8.3	100.0	87.6	75.3	70.1
SAVANT	8.4	7.2	6.5	5.8	8.1	7.5	8.2	8.3	103.8	95.6	79.8	69.9
SHIELD (02BS4)	8.2	6.9	6.5	5.8	8.1	7.8	8.2	8.3	100.3	89.6	79.5	70.0
ALLOY (RRT)	8.3	6.9	6.0	5.7	7.9	7.7	8.2	8.3	105.2	90.9	73.7	68.0
GREEN SUPREME+ (AMP-R1)	8.2	7.0	6.2	5.7	8.0	7.7	8.2	8.3	102.1	91.9	76.5	68.0
APR2616	8.1	6.8	6.3	5.7	8.0	7.0	7.5	8.3	102.2	98.4	84.3	68.1
APR3060	8.1	6.9	6.3	5.7	8.0	7.6	8.2	8.3	101.6	91.4	77.4	68.0

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	QUALITY RATINGS OF THE SALT TREATMENT				QUALITY RATINGS OF THE CONTROL				PERCENT OF QUALITY (TREATMENT OVER CONTROL)			
	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS
ASP0116EXT	8.1	6.8	6.7	5.7	8.2	7.7	8.2	8.3	98.7	88.9	81.9	68.0
ASP0117 (A-PR15)	8.2	6.7	6.4	5.7	8.2	7.7	8.2	8.3	99.9	87.2	78.6	68.0
ASP0118GL (A-4G)	8.2	6.5	6.3	5.7	8.1	7.7	8.2	8.3	100.8	86.0	77.7	68.0
BAR LP 6131	8.2	6.6	5.7	5.7	8.1	7.6	8.2	8.3	101.8	88.1	70.3	68.1
CS-6	8.2	6.8	6.4	5.7	8.1	7.7	8.2	8.3	101.6	88.8	78.6	68.1
DLFPS-236/3546	8.4	6.9	6.1	5.7	8.0	7.7	8.2	8.3	104.7	90.5	75.2	68.0
PARAGON 2 GLR (FP2)	8.2	6.8	6.0	5.7	8.0	7.7	8.2	8.3	103.0	89.4	73.7	68.0
FURLONG (LTP-FCB)	8.2	6.5	5.9	5.7	7.9	7.7	8.2	8.3	104.0	84.3	72.8	67.9
GRAY WOLF (PST-2GAL)	8.2	6.7	6.1	5.7	8.2	7.7	8.2	8.3	99.2	87.1	75.3	68.1
JR-123	8.4	6.9	6.5	5.7	8.2	7.8	7.8	8.2	102.5	89.0	82.9	69.5
KARMA	8.1	6.8	6.0	5.7	8.0	7.6	8.2	8.3	101.6	89.6	73.2	68.0
PPG-PR 385	8.3	6.6	5.9	5.7	8.0	7.7	8.2	8.3	105.2	85.8	72.4	68.0
PPG-PR 421	7.8	6.5	6.0	5.7	7.8	7.4	8.0	8.2	99.5	88.4	75.0	69.5
PPG-PR 423	8.3	6.8	6.0	5.7	8.1	7.7	8.2	8.3	102.7	88.2	73.2	68.0
PST-2EGAD	8.2	6.6	6.0	5.7	8.2	7.8	8.2	8.3	100.0	85.8	74.1	68.1
PST-2GTD	8.1	6.7	6.0	5.7	8.1	7.8	8.2	8.3	100.0	87.1	74.1	68.1
PST-2PDA	8.0	6.7	6.1	5.7	8.0	7.7	8.2	8.3	101.1	86.7	74.5	68.1
SILVER SPORT (PST-2CRP)	8.2	6.7	6.1	5.7	8.2	7.8	8.2	8.3	100.0	86.7	74.5	68.1
SPIKE GLS (UF3)	8.4	6.8	6.4	5.7	8.0	7.7	7.7	8.3	104.2	88.4	83.4	68.0
UMPQUA	8.2	6.7	6.1	5.7	8.2	7.6	8.2	8.3	100.0	88.3	74.4	68.1
023	8.3	6.6	6.0	5.5	7.9	7.8	8.2	8.3	105.6	85.3	73.3	66.1
02BS1	8.1	6.5	5.9	5.5	8.0	7.7	7.7	8.3	102.2	85.2	77.5	66.1
02BS2	8.3	6.9	5.9	5.5	7.9	7.6	8.2	8.3	104.3	91.8	72.8	66.1
ALLSTAR III	8.1	6.5	5.8	5.5	8.2	7.7	8.2	8.3	99.6	86.0	71.6	66.1
APPLE 3GL (PPG-PR 339)	8.1	6.6	5.6	5.5	7.9	7.4	8.2	8.3	103.0	91.1	68.7	66.1
APR2612	8.1	6.9	6.2	5.5	7.9	7.5	8.2	8.3	103.1	92.8	76.5	66.1
BAR LP 6158	8.0	6.4	5.8	5.5	8.0	7.7	8.2	8.3	99.6	83.5	71.1	67.0
BAR LP 6159	8.2	6.8	5.6	5.5	8.1	7.6	8.2	8.3	101.4	90.3	68.3	66.1
BAR LP 6162	8.0	6.5	6.0	5.5	8.0	7.7	8.2	8.3	100.0	84.2	73.2	66.8
BAR LP 6164	8.3	6.6	6.0	5.5	8.0	7.8	8.2	8.3	103.2	84.9	73.6	67.0
BRIGHTSTAR SLT	8.2	6.3	5.8	5.5	8.1	7.7	8.2	8.3	101.8	82.7	71.6	66.8
CPN	8.2	6.5	6.0	5.5	8.1	7.6	7.7	8.3	101.2	85.9	78.4	66.1
DERBY XTREME	8.2	6.6	5.6	5.5	7.9	7.5	8.2	8.3	104.3	90.2	68.3	66.1
DLFPS-236/3547	8.1	6.9	6.0	5.5	7.9	7.6	8.2	8.3	102.1	91.4	73.2	66.1
DLFPS-236/3548	8.2	6.8	6.1	5.5	8.0	7.6	8.2	8.3	102.5	90.5	75.3	66.1
DLFPS-236/3550	8.2	6.8	6.0	5.5	7.9	7.7	8.2	8.3	103.5	88.9	74.1	65.9
DLFPS-236/3552	8.2	6.8	6.0	5.5	8.0	7.7	8.2	8.3	102.6	88.7	73.7	66.1
DLFPS-238/3014	8.2	6.5	6.0	5.5	7.9	7.7	8.2	8.3	103.5	83.9	74.1	66.1
GO-142	8.2	6.9	6.2	5.5	7.7	7.7	8.2	8.3	106.6	90.7	75.6	65.9
GO-143	8.3	7.0	6.2	5.5	7.9	7.6	8.2	8.3	105.3	93.3	75.7	66.1
JR-197	8.1	6.6	5.9	5.5	8.2	7.5	7.7	7.8	99.1	89.0	77.5	71.7
JR-747	8.4	6.7	6.5	5.5	8.1	7.7	7.8	8.3	102.9	86.2	82.9	66.1
LINN	8.2	6.4	6.0	5.5	8.0	7.8	8.2	8.3	103.2	83.5	73.2	66.8
MAN O WAR	8.3	6.6	6.0	5.5	8.1	7.7	8.2	8.3	101.7	85.4	74.1	66.1
NP-2	8.2	6.8	6.3	5.5	8.0	7.0	7.6	8.3	102.2	98.3	83.0	66.1
NP-3	8.1	6.8	6.2	5.5	8.0	7.0	7.6	8.2	101.6	97.9	81.2	67.4
OVERDRIVE 5G	8.2	6.4	6.0	5.5	8.0	7.6	8.2	8.3	103.5	85.4	73.7	66.1

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	QUALITY RATINGS OF THE SALT TREATMENT				QUALITY RATINGS OF THE CONTROL				PERCENT OF QUALITY (TREATMENT OVER CONTROL)			
	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS
PEPPER II (RAD-PR 103)	7.9	6.6	5.9	5.5	7.7	7.5	8.2	8.3	103.1	88.7	72.8	66.1
PHARAOH	8.2	6.6	5.9	5.5	8.1	7.7	8.2	8.3	100.9	86.8	72.4	66.1
PPG-PR 360	8.2	6.7	5.6	5.5	8.0	7.5	8.2	8.3	103.3	89.7	69.1	66.1
PPG-PR 367	8.2	6.6	5.6	5.5	8.0	7.5	8.2	8.3	103.3	89.4	69.1	66.1
PPG-PR 370	8.3	6.7	5.8	5.5	7.9	7.6	8.2	8.3	105.2	89.6	71.1	66.1
PPG-PR 422	8.3	6.7	5.9	5.5	8.0	7.6	8.2	8.3	104.2	88.0	71.9	66.1
PR-6-15	8.2	6.9	6.2	5.5	8.0	7.7	8.2	8.3	103.1	90.3	76.5	66.1
PST-2FOXY	8.2	6.7	5.6	5.5	8.0	7.6	8.2	8.3	102.7	88.3	69.1	66.1
RAD-PR 112	8.2	6.7	6.0	5.5	8.2	7.7	8.2	8.3	99.6	87.7	74.1	66.1
SEABISCUIT	8.3	6.5	6.0	5.5	8.1	7.8	8.2	8.3	101.7	84.1	73.2	66.1
SLIDER LS (PPG-PR 241)	8.2	6.5	5.9	5.5	7.8	7.7	8.2	8.3	104.9	84.8	72.4	66.1
SLUGGER 3GL (PPG-PR 343)	8.2	6.7	5.6	5.5	8.0	7.5	8.2	8.3	103.3	89.8	68.3	66.1
XCELERATOR	7.8	6.7	6.3	5.5	8.0	7.4	7.5	8.0	97.0	90.5	84.0	68.8
ASP0218 (A-6D)	8.0	6.3	6.2	5.3	7.8	7.1	7.6	8.2	103.1	89.6	82.1	65.3
BAR LP 6233	8.1	6.7	5.6	5.3	8.1	7.5	8.2	8.3	101.0	89.1	69.1	64.1
DLFPS-236/3556	8.1	6.6	6.4	5.3	8.1	7.6	8.2	8.3	100.3	87.5	78.6	64.1
GO-141	8.2	6.9	6.2	5.3	7.7	7.8	8.2	8.3	107.6	89.8	76.6	64.1
GRAY HAWK (PST-2FIND)	8.1	6.7	6.0	5.3	8.2	7.7	8.2	8.3	99.2	87.5	73.2	64.1
FASTBALL 3GL (PPG-PR 329)	8.1	6.6	5.6	5.2	7.8	7.6	8.2	8.3	103.9	87.3	68.2	62.1
PARADOX GLR (PPG-PR 331)	8.1	6.6	5.5	5.2	7.9	7.4	8.2	8.3	103.5	89.9	67.8	62.1
LSD VALUE	0.5	0.7	1.7	2.1	0.6	0.4	1.1	0.6	11.1	11.1	20.0	28.0
C.V. (%)	2.7	4.4	7.4	8.7	2.5	2.6	3.3	1.8	3.3	5.0	8.1	9.0

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

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

TABLE 2. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LEAF FIRING DURING TREATMENT				LEAF FIRING OF THE CONTROL			
	12DS	16DS	20DS	24DS	12DS	16DS	20DS	24DS
021	0	3.7	10.0	11.7	0	0	0	0
HATRICK (BSP-17)	0	2.7	8.0	12.0	0	0	0	0
TEE-ME-UP (BSP-25)	0	4.7	10.0	12.3	0	0	0	0
FIREBALL (BWH)	0	4.0	10.7	11.7	0	0	0	0
DLFPS-236/3541	0	3.7	7.3	15.7	0	0	0	0
LPB-SD-101	0	3.3	6.7	11.0	0	0	0	0
SIGNET	0	6.3	7.0	13.3	0	0	0	0
EVOLVE	0	7.7	15.0	16.3	0	0	0	0
INTENSE	0	8.7	9.7	13.7	0	0	0	0
LPB-SD-103	0	4.7	8.0	9.0	0	0	0	0
LPB-SD-104	0	6.3	10.3	13.3	0	0	0	0
MENSA	0	3.3	9.0	14.0	0	0	0	0
MRSL-PR15	0	4.3	9.3	12.7	0	0	0	0
PL2	0	3.0	6.3	15.0	0	0	0	0
SR 4650	0	6.0	9.3	12.7	0	0	0	0
BAR LP 6117	0	14.7	16.0	17.7	0	0	0	0
BAR LP 6165	0	10.7	15.0	12.7	0	0	0	0
DLFPS-236/3540	0	3.7	8.7	12.0	0	0	0	0
DLFPS-236/3542	0	3.7	11.3	13.0	0	0	0	0
DLFPS-236/3543	0	2.7	7.3	16.3	0	0	0	0
DLFPS-236/3544	0	3.7	8.3	14.0	0	0	0	0
DLFPS-236/3545	0	3.3	8.3	13.7	0	0	0	0
DLFPS-236/3553	0	12.7	11.3	12.0	0	0	0	0
HOMERUN LS (PPG-PR 419)	0	5.0	6.3	14.7	0	0	0	0
JR-888	0	4.3	8.7	16.7	0	0	0	0
LPB-SD-102	0	3.7	7.0	11.3	0	0	0	0
LPB-SD-105	0	3.7	10.3	14.7	0	0	0	0
PPG-PR 371	0	4.7	9.0	14.0	0	0	0	0
PPG-PR 372	0	5.0	7.7	10.7	0	0	0	0
PPG-PR 420	0	4.7	7.7	14.7	0	0	0	0
PR-5-16	0	8.7	13.3	11.3	0	0	0	0
SAGUARO	0	3.7	9.7	12.7	0	0	0	0
SNX	0	9.0	12.7	19.3	0	0	0	0
DLFPS-236/3538	0	4.3	8.3	14.7	0	0	0	0
DLFPS-236/3554	0	11.3	12.0	10.7	0	0	0	0
GRAND SLAM GLD	0	7.3	12.7	14.7	0	0	0	0
MRSL-PR16	0	5.7	13.3	17.3	0	0	0	0
PPG-PR 424	0	4.3	11.0	14.7	0	0	0	0
PST-2A2	0	9.0	14.7	12.0	0	0	0	0
PST-2BDT	0	9.3	10.7	16.0	0	0	0	0
PST-2MAY	0	6.3	10.7	12.0	0	0	0	0
SAVANT	0	4.0	9.7	15.0	0	0	0	0
SHIELD (02BS4)	0	8.7	13.7	22.7	0	0	0	0
ALLOY (RRT)	0	5.7	15.7	12.7	0	0	0	0
GREEN SUPREME+ (AMP-R1)	0	4.3	11.3	14.0	0	0	0	0
APR2616	0	8.0	13.3	15.3	0	0	0	0
APR3060	0	7.0	12.7	16.0	0	0	0	0

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	PERCENT LEAF FIRING DURING TREATMENT				LEAF FIRING OF THE CONTROL			
	12DS	16DS	20DS	24DS	12DS	16DS	20DS	24DS
ASP0116EXT	0	7.0	6.3	13.3	0	0	0	0
ASP0117 (A-PR15)	0	9.0	13.3	16.7	0	0	0	0
ASP0118GL (A-4G)	0	10.3	14.7	20.7	0	0	0	0
BAR LP 6131	0	7.0	13.3	17.3	0	0	0	0
CS-6	0	9.0	12.0	23.0	0	0	0	0
DLFPS-236/3546	0	6.0	9.7	16.0	0	0	0	0
PARAGON 2 GLR (FP2)	0	4.7	12.0	15.7	0	0	0	0
FURLONG (LTP-FCB)	0	12.0	19.7	20.7	0	0	0	0
GRAY WOLF (PST-2GAL)	0	5.0	10.7	12.0	0	0	0	0
JR-123	0	5.7	11.3	20.3	0	0	0	0
KARMA	0	5.0	10.0	14.0	0	0	0	0
PPG-PR 385	0	10.7	10.7	14.0	0	0	0	0
PPG-PR 421	0	7.3	10.0	18.0	0	0	0	0
PPG-PR 423	0	4.3	8.3	14.0	0	0	0	0
PST-2EGAD	0	8.0	15.3	13.3	0	0	0	0
PST-2GTD	0	5.7	13.0	13.3	0	0	0	0
PST-2PDA	0	6.3	12.0	10.7	0	0	0	0
SILVER SPORT (PST-2CRP)	0	10.0	11.7	12.7	0	0	0	0
SPIKE GLS (UF3)	0	9.7	12.7	25.3	0	0	0	0
UMPQUA	0	4.3	11.3	12.7	0	0	0	0
023	0	14.3	17.3	20.7	0	0	0	0
02BS1	0	15.3	24.3	22.0	0	0	0	0
02BS2	0	4.7	17.7	14.7	0	0	0	0
ALLSTAR III	0	11.0	14.7	16.7	0	0	0	0
APPLE 3GL (PPG-PR 339)	0	8.0	17.3	19.3	0	0	0	0
APR2612	0	6.3	8.7	16.0	0	0	0	0
BAR LP 6158	0	18.7	21.3	20.7	0	0	0	0
BAR LP 6159	0	9.0	16.7	18.0	0	0	0	0
BAR LP 6162	0	17.0	15.3	16.0	0	0	0	0
BAR LP 6164	0	12.3	20.0	18.7	0	0	0	0
BRIGHTSTAR SLT	0	15.3	22.0	20.0	0	0	0	0
CPN	0	8.0	15.0	12.7	0	0	0	0
DERBY XTREME	0	7.0	20.3	26.3	0	0	0	0
DLFPS-236/3547	0	6.0	15.3	18.0	0	0	0	0
DLFPS-236/3548	0	8.0	11.0	17.7	0	0	0	0
DLFPS-236/3550	0	9.0	12.0	20.3	0	0	0	0
DLFPS-236/3552	0	10.0	12.0	22.7	0	0	0	0
DLFPS-238/3014	0	11.3	11.3	16.7	0	0	0	0
GO-142	0	8.0	17.7	15.3	0	0	0	0
GO-143	0	4.0	9.7	17.7	0	0	0	0
JR-197	0	6.0	15.3	14.0	0	0	0	0
JR-747	0	20.0	13.3	19.7	0	0	0	0
LINN	0	15.3	22.0	22.7	0	0	0	0
MAN O WAR	0	9.7	12.7	19.3	0	0	0	0
NP-2	0	7.7	16.0	16.0	0	0	0	0
NP-3	0	8.7	17.3	21.0	0	0	0	0
OVERDRIVE 5G	0	19.3	22.3	18.7	0	0	0	0

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	PERCENT LEAF FIRING DURING TREATMENT				LEAF FIRING OF THE CONTROL			
	12DS	16DS	20DS	24DS	12DS	16DS	20DS	24DS
PEPPER II (RAD-PR 103)	0	7.0	12.0	16.3	0	0	0	0
PHARAOH	0	10.7	14.7	18.7	0	0	0	0
PPG-PR 360	0	6.7	18.7	17.3	0	0	0	0
PPG-PR 367	0	7.7	18.7	13.3	0	0	0	0
PPG-PR 370	0	7.7	13.0	22.0	0	0	0	0
PPG-PR 422	0	4.3	9.0	12.0	0	0	0	0
PR-6-15	0	6.0	11.3	19.3	0	0	0	0
PST-2FOXY	0	11.3	13.3	20.0	0	0	0	0
RAD-PR 112	0	5.0	10.0	13.7	0	0	0	0
SEABISCUIT	0	11.3	12.7	18.0	0	0	0	0
SLIDER LS (PPG-PR 241)	0	13.0	23.3	21.3	0	0	0	0
SLUGGER 3GL (PPG-PR 343)	0	5.3	15.3	18.0	0	0	0	0
XCELERATOR	0	8.3	13.3	22.7	0	0	0	0
ASP0218 (A-6D)	0	14.3	19.0	24.0	0	0	0	0
BAR LP 6233	0	12.7	12.7	18.0	0	0	0	0
DLFPS-236/3556	0	14.3	12.7	24.0	0	0	0	0
GO-141	0	4.0	11.3	18.7	0	0	0	0
GRAY HAWK (PST-2FIND)	0	7.7	15.3	15.3	0	0	0	0
FASTBALL 3GL (PPG-PR 329)	0	14.0	21.0	28.7	0	0	0	0
PARADOX GLR (PPG-PR 331)	0	13.0	26.0	29.0	0	0	0	0
LSD VALUE	0	10.0	13.6	30.5	0	0	0	0
C.V. (%)	.	61.5	44.9	42.4

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 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	CLIPPING YIELD (MG) DURING TREATMENT				CLIPPING YIELD (MG) CONTROL				PERCENT TREATMENT CLIPPING YIELD OVER CONTROL			
	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS
021	105.0	103.0	51.0	22.7	132.7	203.0	176.7	175.7	74.6	65.0	29.7	13.2
HATRICK (BSP-17)	110.7	115.3	46.7	18.3	132.7	187.7	177.7	169.7	94.3	71.6	26.8	10.9
TEE-ME-UP (BSP-25)	78.7	116.7	53.0	34.3	104.3	188.0	166.0	178.0	75.4	74.5	31.6	17.3
FIREBALL (BWH)	71.3	96.7	52.0	23.3	93.3	205.0	175.3	164.7	98.2	61.7	29.8	13.8
DLFPS-236/3541	66.7	103.7	34.7	25.7	114.0	199.5	182.7	259.3	66.9	60.6	18.4	9.5
LPB-SD-101	83.7	102.7	61.0	34.3	92.7	208.0	178.3	185.0	92.0	64.6	35.0	18.9
SIGNET	77.0	115.0	48.0	23.0	136.0	210.3	170.7	167.0	58.1	65.7	28.4	13.8
EVOLVE	84.0	87.7	40.7	22.0	144.7	234.3	165.3	197.3	62.7	43.3	25.4	11.2
INTENSE	117.7	112.7	48.3	30.7	119.7	695.0	178.0	204.0	120.9	27.6	29.3	15.2
LPB-SD-103	70.3	97.3	68.7	36.7	52.0	215.0	178.7	180.0	137.3	48.5	38.2	22.2
LPB-SD-104	78.7	88.7	58.0	24.7	106.0	222.3	189.0	167.3	73.6	41.5	31.3	14.5
MENSA	86.7	124.0	57.0	31.3	95.0	223.3	152.7	151.3	96.7	58.7	36.6	20.3
MRSL-PR15	79.0	107.7	43.7	21.7	134.0	182.0	162.0	154.3	59.0	67.7	26.6	13.9
PL2	85.3	103.3	54.3	25.7	125.3	176.7	169.0	185.3	78.1	70.7	31.7	14.6
SR 4650	100.7	103.3	45.0	41.0	102.7	190.3	187.7	194.3	99.8	59.1	24.3	23.3
BAR LP 6117	76.3	83.7	36.7	37.0	108.0	201.0	174.3	166.3	73.9	43.2	21.2	24.9
BAR LP 6165	61.7	92.7	59.3	22.0	94.0	200.7	230.7	187.7	66.4	50.3	25.8	11.7
DLFPS-236/3540	93.3	106.3	56.3	28.3	140.7	193.3	177.7	194.3	68.0	71.5	32.4	14.1
DLFPS-236/3542	546.7	90.3	64.7	39.3	99.7	202.3	173.3	159.0	198.9	47.8	38.1	24.5
DLFPS-236/3543	65.3	102.7	52.0	30.7	122.7	214.0	154.0	203.0	56.8	57.5	33.8	14.9
DLFPS-236/3544	87.7	80.3	50.3	28.0	126.0	212.3	189.3	189.0	70.9	39.5	26.6	14.5
DLFPS-236/3545	74.7	113.0	48.3	34.7	82.0	217.0	161.3	189.0	113.0	59.8	29.5	18.2
DLFPS-236/3553	102.0	117.3	72.7	32.0	138.3	209.7	187.7	195.0	76.9	59.4	39.6	16.4
HOMERUN LS (PPG-PR 419)	102.3	95.3	50.7	50.7	150.3	270.3	203.7	174.7	71.6	34.4	24.9	28.8
JR-888	59.7	81.0	46.0	28.0	173.7	208.3	160.0	190.3	34.1	42.6	29.3	14.9
LPB-SD-102	73.0	51.0	57.3	35.0	96.0	199.3	187.3	145.0	107.8	28.7	31.6	23.7
LPB-SD-105	68.3	95.7	61.0	37.0	120.3	209.0	187.0	167.7	57.1	46.9	32.5	23.8
PPG-PR 371	96.3	91.7	47.7	47.0	137.0	211.3	188.0	187.7	77.4	44.4	25.8	25.3
PPG-PR 372	103.3	108.7	48.3	36.0	98.3	200.3	194.7	219.0	139.1	58.7	24.8	17.9
PPG-PR 420	101.7	99.7	54.7	49.3	123.0	233.0	183.3	196.3	94.7	46.2	31.1	25.4
PR-5-16	113.3	108.7	69.0	33.3	126.3	222.0	203.3	181.3	94.6	49.8	35.4	17.6
SAGUARO	85.3	96.7	62.3	35.3	113.7	233.7	183.3	175.7	75.3	43.7	34.3	19.5
SNX	72.3	104.7	37.0	22.7	118.7	222.3	160.0	157.7	75.1	48.0	23.0	14.3
DLFPS-236/3538	72.3	99.7	38.3	51.3	83.0	182.0	181.3	192.0	93.6	60.7	21.7	26.7
DLFPS-236/3554	83.7	133.3	70.3	30.3	104.7	199.0	196.7	198.0	90.3	79.9	36.6	14.7
GRAND SLAM GLD	71.7	91.0	40.0	32.0	119.0	223.7	177.7	217.0	60.4	40.1	23.5	20.4
MRSL-PR16	83.3	89.7	44.7	27.0	153.7	201.7	171.7	156.3	56.7	48.1	26.5	16.7
PPG-PR 424	86.3	108.0	52.3	42.3	167.3	212.3	200.0	172.0	49.7	57.0	27.9	27.3
PST-2A2	108.3	105.3	60.3	26.0	107.0	207.3	198.0	188.3	105.0	62.0	32.1	13.8
PST-2BDT	103.3	97.7	43.7	35.0	136.7	223.7	142.7	161.0	80.8	55.4	31.4	22.9
PST-2MAY	80.3	119.3	81.7	28.0	134.0	255.7	167.3	152.7	69.8	61.0	49.0	18.5
SAVANT	79.7	80.3	57.3	28.3	104.0	237.3	144.7	186.3	73.4	39.9	40.4	15.1
SHIELD (02BS4)	83.0	92.3	45.7	21.0	126.3	265.3	184.7	169.7	66.4	39.2	25.0	12.9
ALLOY (RRT)	86.7	113.0	65.0	42.3	102.7	192.7	151.0	166.7	128.5	67.1	42.5	26.4
GREEN SUPREME+ (AMP-R1)	99.0	100.7	79.3	34.7	107.3	224.7	176.0	205.0	92.8	52.7	45.7	17.1
APR2616	87.0	107.0	62.3	24.0	78.3	206.3	204.0	238.0	124.0	61.0	31.3	9.9
APR3060	83.7	100.0	76.3	29.0	105.3	231.7	179.0	190.7	83.6	45.8	43.1	14.6

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	CLIPPING YIELD (MG) DURING TREATMENT				CLIPPING YIELD (MG) CONTROL				PERCENT TREATMENT CLIPPING YIELD OVER CONTROL			
	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS
ASP0116EXT	108.3	97.7	48.3	20.0	129.7	235.0	182.3	172.7	83.6	44.3	26.8	12.6
ASP0117 (A-PR15)	89.0	101.3	45.0	19.0	130.3	214.3	181.7	195.7	68.3	61.3	24.5	9.9
ASP0118GL (A-4G)	75.0	105.0	49.3	22.0	97.3	196.7	178.0	199.7	80.6	55.0	28.6	11.8
BAR LP 6131	76.0	95.3	40.0	35.7	114.3	207.7	145.3	189.7	69.9	48.2	27.9	22.0
CS-6	70.0	88.0	50.3	20.7	104.7	229.3	174.0	182.0	64.4	43.4	29.2	12.0
DLFPS-236/3546	75.7	104.3	81.3	43.0	77.3	208.7	186.7	211.3	99.5	58.6	44.1	21.6
PARAGON 2 GLR (FP2)	109.0	106.3	58.0	31.3	112.0	201.3	188.7	224.3	93.0	55.7	31.6	14.2
FURLONG (LTP-FCB)	78.3	94.7	30.7	29.3	81.5	169.3	188.7	193.3	86.1	61.6	16.1	16.4
GRAY WOLF (PST-2GAL)	77.0	115.3	32.5	27.3	124.3	238.7	187.3	157.3	60.2	60.3	16.6	17.7
JR-123	76.7	104.7	44.3	24.3	86.3	236.0	177.0	161.0	145.2	51.4	25.3	14.1
KARMA	101.0	100.0	42.3	41.7	119.0	178.3	170.3	166.0	148.2	61.6	25.0	26.7
PPG-PR 385	96.7	101.0	58.3	58.7	91.3	243.0	200.3	194.0	136.5	44.6	29.5	33.2
PPG-PR 421	84.7	107.3	43.0	50.7	140.3	222.3	173.3	200.3	64.9	57.4	27.8	25.5
PPG-PR 423	83.7	102.3	48.3	49.0	129.7	193.7	180.3	183.7	62.3	55.6	28.0	26.2
PST-2EGAD	84.0	90.7	60.0	33.0	106.0	191.3	174.7	183.0	77.7	48.4	35.4	20.3
PST-2GTD	85.0	121.7	58.7	35.3	117.3	203.7	173.7	191.7	72.7	65.3	33.5	24.6
PST-2PDA	96.3	125.0	75.7	39.3	119.0	252.3	198.0	200.0	50.5	52.4	38.6	20.8
SILVER SPORT (PST-2CRP)	84.3	102.3	46.3	25.3	103.7	178.7	138.0	203.3	80.7	58.1	35.8	12.6
SPIKE GLS (UF3)	94.7	112.0	45.0	34.7	102.0	241.3	175.0	191.7	130.1	56.0	26.9	17.8
UMPQUA	75.7	91.3	60.7	32.0	108.7	209.3	187.3	187.0	71.3	44.5	32.3	17.2
023	99.7	83.3	61.7	45.7	134.0	204.7	198.3	240.7	78.4	49.0	31.4	18.8
02BS1	86.0	118.0	58.3	29.7	100.7	200.0	195.3	196.3	87.3	59.7	30.3	15.4
02BS2	91.0	109.0	57.3	31.0	87.7	217.7	166.0	206.0	128.9	58.4	35.3	16.5
ALLSTAR III	387.3	95.0	52.7	43.3	111.3	224.0	166.0	163.3	277.3	47.3	30.8	28.9
APPLE 3GL (PPG-PR 339)	98.7	85.0	50.3	34.3	151.3	228.3	184.0	200.3	62.2	42.5	28.4	18.5
APR2612	71.7	97.0	66.3	36.0	99.7	226.3	187.0	197.7	85.0	45.2	36.2	19.3
BAR LP 6158	97.3	114.0	44.7	32.3	112.3	214.0	193.7	175.0	94.1	58.1	23.5	18.6
BAR LP 6159	79.7	117.0	62.3	33.3	84.7	221.7	169.0	186.3	91.2	54.8	36.5	18.9
BAR LP 6162	113.0	96.0	53.0	26.3	106.3	236.7	214.3	200.7	116.7	44.9	25.5	13.2
BAR LP 6164	88.0	113.3	52.0	40.3	105.0	171.0	189.3	195.0	96.8	76.7	28.8	20.9
BRIGHTSTAR SLT	59.0	105.0	55.3	25.7	108.3	257.7	192.3	208.3	53.7	49.0	30.0	13.7
CPN	81.0	109.3	71.3	32.0	101.0	195.0	179.0	193.7	85.9	59.4	39.9	16.2
DERBY XTREME	86.7	122.0	51.3	28.7	115.0	197.7	174.3	238.0	83.5	68.6	29.9	12.3
DLFPS-236/3547	80.7	109.0	64.0	31.0	91.3	193.7	183.3	193.3	94.2	67.1	35.7	15.7
DLFPS-236/3548	88.0	84.3	69.7	52.0	99.3	253.3	175.7	225.3	85.3	39.7	43.3	23.0
DLFPS-236/3550	93.0	100.0	63.7	48.3	125.3	223.7	180.0	186.7	73.6	62.4	36.7	25.5
DLFPS-236/3552	80.0	115.0	59.7	22.0	106.7	209.0	175.0	234.3	82.4	63.7	35.7	9.8
DLFPS-238/3014	101.0	117.7	69.7	46.3	140.3	214.7	197.7	200.7	79.9	53.8	40.8	22.9
GO-142	84.3	106.0	65.7	40.0	86.0	217.7	184.7	178.0	102.9	55.0	36.3	22.3
GO-143	80.7	105.0	61.7	29.0	86.3	240.0	184.0	213.7	98.6	52.1	33.3	13.3
JR-197	69.7	96.7	58.3	40.3	125.0	191.7	186.7	173.0	60.9	55.8	30.8	22.4
JR-747	57.0	105.0	50.3	32.7	104.7	227.7	176.0	166.3	60.3	56.1	29.0	19.3
LINN	82.7	137.3	85.7	31.0	154.3	286.7	243.3	206.3	52.9	54.9	35.1	14.9
MAN O WAR	74.3	110.3	63.0	42.3	110.7	218.0	183.3	185.7	71.2	60.9	34.7	23.6
NP-2	73.7	105.0	47.3	28.7	90.3	181.7	202.7	234.3	79.4	63.3	23.5	11.8
NP-3	81.7	100.3	58.3	15.7	119.7	236.7	163.0	182.0	63.6	47.3	38.3	9.3
OVERDRIVE 5G	91.7	97.0	51.3	20.3	81.3	172.3	189.3	191.3	112.3	59.8	27.1	10.9

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	CLIPPING YIELD (MG) DURING TREATMENT				CLIPPING YIELD (MG) CONTROL				PERCENT TREATMENT CLIPPING YIELD OVER CONTROL			
	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS	12_DS	16_DS	20_DS	24_DS
PEPPER II (RAD-PR 103)	76.0	110.3	67.3	42.7	117.0	210.7	198.7	205.7	65.5	54.8	36.2	20.3
PHARAOH	80.0	111.7	53.3	41.0	128.7	227.0	170.3	170.7	60.8	55.4	31.9	23.4
PPG-PR 360	69.0	95.0	45.0	32.3	106.7	231.3	167.3	212.3	67.2	46.3	27.5	16.1
PPG-PR 367	87.0	88.3	43.0	39.7	118.7	251.7	177.0	195.3	79.7	42.6	24.2	21.6
PPG-PR 370	102.0	96.3	60.0	43.7	142.3	233.3	177.7	178.7	81.9	46.2	34.0	27.0
PPG-PR 422	89.3	103.3	45.3	27.3	110.3	225.7	182.7	168.0	82.3	50.6	27.7	15.6
PR-6-15	184.3	97.7	40.0	33.7	136.0	213.7	162.3	146.7	154.4	49.5	25.5	23.0
PST-2FOXY	70.7	97.3	52.7	29.7	119.3	192.3	147.7	183.7	55.7	51.5	38.3	16.3
RAD-PR 112	70.0	110.0	53.0	30.7	92.7	214.3	179.3	205.3	82.8	56.2	31.4	14.8
SEABISCUIT	80.3	126.0	46.7	25.0	94.3	197.3	178.3	184.7	85.5	76.9	26.4	13.4
SLIDER LS (PPG-PR 241)	98.3	93.0	46.3	30.3	99.0	190.3	159.3	214.7	117.7	51.7	28.5	13.3
SLUGGER 3GL (PPG-PR 343)	92.0	110.3	51.3	43.0	106.0	209.0	153.3	188.7	90.7	63.7	36.1	23.8
XCELERATOR	83.7	114.7	61.3	33.7	130.7	208.7	172.3	205.3	77.7	57.9	35.8	15.4
ASP0218 (A-6D)	74.0	91.7	51.7	17.3	117.3	193.0	170.7	188.7	65.8	49.7	31.2	9.3
BAR LP 6233	69.7	72.7	52.0	36.7	123.0	241.7	168.7	198.7	56.8	30.4	30.2	19.6
DLFPS-236/3556	96.0	110.3	39.0	19.3	92.0	224.3	183.3	223.3	117.9	62.4	20.6	8.7
GO-141	90.3	96.0	62.0	48.0	92.0	208.0	191.0	209.3	103.0	55.4	32.2	21.9
GRAY HAWK (PST-2FIND)	99.3	100.7	65.0	30.0	107.7	181.3	163.0	199.7	93.0	66.2	41.2	14.8
FASTBALL 3GL (PPG-PR 329)	87.0	116.0	58.0	28.7	90.0	210.7	162.7	217.0	125.6	61.1	38.1	13.3
PARADOX GLR (PPG-PR 331)	94.7	103.7	60.0	46.3	89.3	230.3	156.7	213.0	102.3	46.5	38.2	20.5
LSD VALUE	421.0	97.9	55.3	78.7	167.4	399.2	55.1	135.0	253.3	72.6	40.3	53.9
C.V. (%)	100.6	21.1	30.6	48.4	31.9	40.0	12.7	18.5	62.7	31.5	32.1	55.2

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 STORRS, CT 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	SPRING	QUALITY RATINGS							MEAN
	COLOR	GREENUP	MAY	JUN	JUL	AUG	SEP	OCT		
PPG-PR 360	7.7	6.0	6.3	7.7	7.0	7.0	7.7	7.0	7.1	
PPG-PR 422	7.7	7.0	6.7	8.0	6.7	7.0	7.0	7.3	7.1	
DLFPS-236/3542	7.7	6.0	6.7	7.7	6.7	6.3	7.3	7.0	6.9	
NP-3	6.7	7.0	7.3	7.7	6.3	6.7	7.3	6.3	6.9	
PPG-PR 372	8.0	6.7	7.0	7.7	6.7	7.0	5.7	7.3	6.9	
PPG-PR 421	7.3	7.0	7.3	7.3	6.7	7.3	5.7	7.3	6.9	
DLFPS-236/3546	7.7	7.0	7.0	7.3	6.3	7.0	6.3	7.0	6.8	
DLFPS-236/3552	7.7	7.0	7.0	7.3	6.7	6.3	7.0	6.3	6.8	
PL2	8.0	6.7	7.7	8.0	7.0	6.3	5.3	6.3	6.8	
PARADOX GLR (PPG-PR 331)	7.3	6.7	7.7	7.0	6.3	7.3	6.3	6.0	6.8	
PPG-PR 424	7.3	8.0	7.7	6.7	5.7	7.7	6.3	6.7	6.8	
DLFPS-236/3545	7.0	6.0	6.7	6.0	6.0	7.7	7.0	6.7	6.7	
DLFPS-236/3548	7.7	5.7	6.3	7.3	6.7	7.3	6.7	5.7	6.7	
DLFPS-236/3554	7.3	6.3	7.0	7.0	6.3	7.0	7.3	5.7	6.7	
PHARAOH	7.7	7.7	7.0	6.7	6.7	6.7	6.0	7.0	6.7	
PPG-PR 371	7.7	6.0	6.3	6.7	6.3	6.7	7.0	7.0	6.7	
PR-6-15	7.7	6.0	5.7	6.7	6.7	7.3	6.7	7.0	6.7	
021	6.0	6.3	6.7	6.3	6.0	6.3	7.3	6.7	6.6	
02BS2	7.0	6.3	7.0	6.7	5.3	7.0	6.0	7.3	6.6	
GRAY WOLF (PST-2GAL)	7.7	6.7	7.0	7.7	7.0	5.7	6.0	6.0	6.6	
NP-2	7.3	6.3	7.7	7.7	7.0	6.3	4.3	6.7	6.6	
PPG-PR 423	7.0	6.3	6.7	7.7	5.7	6.7	6.3	6.7	6.6	
SHIELD (02BS4)	7.3	6.0	7.0	7.7	6.0	6.3	6.0	6.3	6.6	
XCELERATOR	7.3	6.7	7.7	7.0	6.7	6.3	5.7	6.3	6.6	
ALLOY (RRT)	7.0	7.3	6.7	7.0	6.3	6.0	6.7	6.3	6.5	
DLFPS-236/3547	7.0	7.0	6.3	7.7	5.7	7.0	5.7	6.7	6.5	
DLFPS-236/3553	7.0	6.0	7.0	7.0	6.3	7.0	6.0	5.7	6.5	
PST-2BDT	7.3	5.3	6.7	7.0	5.7	6.3	7.3	6.0	6.5	
UMPQUA	6.0	6.7	7.0	7.0	6.3	6.7	6.0	6.0	6.5	
023	7.7	7.3	7.3	7.0	6.7	7.0	5.0	5.3	6.4	
APPLE 3GL (PPG-PR 339)	7.0	6.7	6.3	7.0	6.0	6.0	7.0	6.3	6.4	
BAR LP 6158	6.7	5.0	5.7	6.7	6.3	6.0	7.3	6.3	6.4	
DLFPS-236/3550	6.7	6.0	6.7	6.7	6.3	6.7	6.7	5.7	6.4	
OVERDRIVE 5G	7.0	6.3	7.3	7.0	6.3	6.7	5.3	5.7	6.4	
PPG-PR 420	7.7	7.0	7.3	7.0	6.7	6.7	5.0	5.7	6.4	
ASP0117 (A-PR15)	7.3	5.7	5.7	8.0	6.3	6.0	6.0	6.0	6.3	
BAR LP 6233	6.7	5.0	6.3	6.0	7.7	6.0	6.3	5.7	6.3	
DLFPS-236/3538	7.3	6.7	6.3	7.7	6.3	6.0	6.3	5.3	6.3	
DLFPS-236/3540	6.7	5.7	6.3	5.7	6.0	7.3	7.0	5.7	6.3	
DLFPS-236/3543	7.3	6.7	6.3	6.3	6.3	7.0	6.3	5.3	6.3	
INTENSE	7.0	7.3	6.0	7.0	6.3	6.3	6.3	6.0	6.3	
JR-123	7.0	6.3	6.7	6.7	6.0	6.3	6.0	6.0	6.3	
JR-888	6.0	6.7	7.3	6.3	6.7	6.3	5.0	6.0	6.3	
MAN O WAR	7.3	6.3	6.7	7.3	6.3	5.7	6.3	5.7	6.3	
PPG-PR 367	7.7	7.3	6.3	6.7	6.0	5.7	6.7	6.7	6.3	
PPG-PR 370	8.0	6.7	7.3	6.3	6.7	7.0	4.7	5.7	6.3	
PST-2A2	8.0	6.7	7.7	7.0	6.7	6.3	4.7	5.7	6.3	

TABLE 3. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
 2018 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	
PST-2FOXY	7.0	5.7	5.7	6.7	6.0	6.3	7.0	6.0	6.3
PST-2GTD	6.7	6.0	5.7	7.0	6.3	6.7	7.3	5.0	6.3
SAVANT	7.3	5.7	7.7	6.7	7.0	6.3	4.3	5.7	6.3
SLIDER LS (PPG-PR 241)	7.0	6.3	7.3	7.0	6.7	6.0	5.0	6.0	6.3
DLFPS-236/3544	6.7	7.3	6.0	6.0	6.0	6.0	6.7	6.3	6.2
FURLONG (LTP-FCB)	8.0	7.0	7.0	8.0	6.3	5.7	4.7	5.3	6.2
LPB-SD-102	7.7	4.7	6.7	7.0	7.3	5.3	5.3	5.7	6.2
SIGNET	7.7	7.0	6.7	6.3	6.3	7.0	5.7	5.3	6.2
SPIKE GLS (UF3)	7.3	5.7	6.7	7.3	6.0	6.3	5.0	5.7	6.2
ASP0118GL (A-4G)	7.3	5.3	4.7	6.3	6.3	6.7	6.7	6.0	6.1
ASP0218 (A-6D)	8.3	6.3	5.7	8.0	6.0	4.7	6.0	6.0	6.1
EVOLVE	6.7	6.0	5.7	7.0	6.0	5.7	7.0	5.3	6.1
HOMERUN LS (PPG-PR 419)	7.3	6.7	6.3	7.0	5.7	5.3	6.3	6.0	6.1
JR-197	7.3	6.7	6.3	5.7	6.3	6.0	5.7	6.3	6.1
LPB-SD-101	6.0	4.7	5.7	6.7	7.0	6.0	6.0	5.3	6.1
PST-2EGAD	7.3	5.7	6.3	6.7	5.7	5.3	6.3	6.0	6.1
SEABISCUIT	7.0	7.7	7.0	6.3	6.3	5.3	5.0	6.3	6.1
SLUGGER 3GL (PPG-PR 343)	6.7	6.0	6.3	7.0	6.0	5.7	5.3	6.3	6.1
DERBY XTREME	6.7	6.7	6.3	7.0	5.3	6.7	5.0	5.7	6.0
SAGUARO	6.0	5.7	6.3	6.3	6.3	5.7	5.0	6.3	6.0
02BS1	6.3	6.3	5.7	7.0	5.7	5.7	5.3	6.0	5.9
ALLSTAR III	7.0	6.0	5.3	6.7	5.7	5.7	6.3	5.7	5.9
APR2616	7.3	5.7	6.0	6.3	5.3	5.7	6.7	5.3	5.9
BAR LP 6164	6.0	6.0	6.0	6.0	5.7	5.7	6.0	6.3	5.9
BAR LP 6165	5.0	5.0	6.3	5.7	6.3	6.0	5.7	5.3	5.9
CPN	6.7	6.7	6.7	6.0	5.7	6.3	5.7	5.3	5.9
DLFPS-236/3541	6.7	6.3	5.7	6.7	5.7	5.3	6.0	6.3	5.9
GRAY HAWK (PST-2FIND)	6.7	6.3	5.7	7.0	5.7	6.0	5.7	5.7	5.9
LPB-SD-104	8.3	4.7	5.7	7.3	7.0	5.7	4.3	5.3	5.9
MRSL-PR15	8.0	6.0	5.7	7.7	6.0	6.0	5.0	5.0	5.9
PST-2MAY	7.3	6.7	6.0	6.3	6.0	4.7	6.0	6.3	5.9
SR 4650	7.0	6.3	6.7	6.7	6.3	5.3	5.0	5.7	5.9
HATRICK (BSP-17)	8.7	6.0	5.0	6.0	5.0	6.3	6.3	6.0	5.8
FASTBALL 3GL (PPG-PR 329)	6.3	6.3	5.3	6.7	6.0	6.7	5.0	5.3	5.8
PARAGON 2 GLR (FP2)	7.0	7.0	6.3	6.0	6.0	6.3	5.3	5.0	5.8
GO-142	7.0	5.3	5.0	7.0	5.7	5.0	6.7	5.7	5.8
GRAND SLAM GLD	7.0	6.7	6.3	6.3	6.0	5.3	5.3	5.7	5.8
MENSA	6.7	5.3	6.7	7.3	6.3	5.7	3.3	5.7	5.8
PPG-PR 385	6.7	5.7	6.7	6.7	6.0	5.7	4.3	5.3	5.8
PR-5-16	7.0	5.7	6.7	6.3	6.0	5.7	4.7	5.7	5.8
PST-2PDA	7.0	6.7	6.0	6.3	5.0	5.7	6.7	5.3	5.8
APR2612	6.0	5.3	5.0	5.7	6.7	5.7	6.0	5.3	5.7
APR3060	7.0	5.3	5.7	6.7	6.0	6.0	4.7	5.0	5.7
DLFPS-236/3556	7.7	6.7	6.3	6.3	6.3	4.7	5.0	5.7	5.7
GREEN SUPREME+ (AMP-R1)	7.3	5.3	5.3	7.3	5.0	4.7	6.0	5.0	5.6
KARMA	6.7	5.3	6.0	6.0	5.3	6.0	5.0	5.0	5.6
PEPPER II (RAD-PR 103)	7.7	6.0	5.0	7.7	5.0	4.7	5.7	5.7	5.6

TABLE 3. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC		SPRING		QUALITY RATINGS					MEAN
	COLOR	GREENUP	MAY	JUN	JUL	AUG	SEP	OCT		
SILVER SPORT (PST-2CRP)	7.3	5.7	6.0	7.3	5.7	5.0	4.3	5.3	5.6	
CS-6	7.3	5.0	5.7	6.0	5.7	5.0	4.7	6.0	5.5	
GO-141	6.7	5.7	5.3	6.7	5.7	5.0	5.3	5.0	5.5	
LPB-SD-103	7.0	5.7	6.0	6.3	6.3	4.3	4.3	5.7	5.5	
LPB-SD-105	7.7	5.0	6.0	7.7	6.7	5.3	3.3	4.0	5.5	
ASP0116EXT	8.3	5.3	5.0	5.0	5.0	6.0	6.3	5.3	5.4	
BRIGHTSTAR SLT	6.0	5.0	5.3	6.0	5.0	6.0	5.0	5.0	5.4	
FIREBALL (BWH)	8.7	6.3	5.0	6.3	5.7	4.7	4.7	6.0	5.4	
BAR LP 6117	6.7	5.3	5.3	6.0	5.7	5.0	5.3	4.7	5.3	
BAR LP 6131	6.3	4.7	5.0	6.3	5.3	4.7	5.7	5.0	5.3	
BAR LP 6159	6.0	5.0	5.0	6.3	6.0	4.3	5.0	5.0	5.3	
DLFPS-238/3014	6.7	5.0	5.3	6.3	5.3	4.7	5.3	4.7	5.3	
SNX	8.3	5.7	5.3	5.7	6.0	4.7	5.0	5.3	5.3	
GO-143	6.0	5.0	4.7	5.7	5.0	5.3	5.0	5.7	5.2	
RAD-PR 112	7.7	5.0	4.3	5.7	5.7	5.0	5.0	5.3	5.2	
JR-747	7.3	4.3	4.7	6.7	6.0	4.7	3.7	5.0	5.1	
MRSI-PR16	6.7	5.0	5.3	6.7	4.7	4.0	5.0	4.7	5.1	
BAR LP 6162	5.3	4.7	4.7	6.0	4.7	4.7	5.7	4.3	5.0	
TEE-ME-UP (BSP-25)	8.3	4.7	4.0	6.7	4.7	4.3	5.0	5.0	4.9	
LINN	4.0	4.7	5.0	4.0	4.0	3.0	2.7	3.3	3.7	
LSD VALUE	1.3	1.2	1.2	2.2	2.2	1.7	1.9	1.2	0.7	
C.V. (%)	10.5	12.0	11.8	13.8	14.4	16.0	18.0	12.1	7.0	

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 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS						MEAN
		MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3543	7.0	4.7	7.7	7.7	6.7	8.7	8.3	7.3
021	5.7	7.0	6.0	7.0	6.7	8.3	8.3	7.2
PST-2GTD	7.7	5.3	6.7	8.0	6.7	8.3	8.3	7.2
UMPQUA	7.7	5.7	6.7	8.0	6.7	7.3	8.7	7.2
TEE-ME-UP (BSP-25)	5.7	4.7	7.7	7.3	5.7	8.0	9.0	7.1
DLFPS-236/3545	7.0	5.0	6.7	7.3	6.0	8.7	8.7	7.1
JR-197	6.3	6.0	5.7	7.7	6.3	8.0	8.3	7.0
BAR LP 6165	8.3	6.3	7.7	7.0	7.7	6.7	6.3	6.9
DLFPS-236/3547	7.0	5.0	7.0	7.3	6.0	8.3	8.0	6.9
FURLONG (LTP-FCB)	7.3	4.3	6.3	7.7	6.7	8.0	8.7	6.9
HOMERUN LS (PPG-PR 419)	7.0	5.0	6.7	7.3	6.7	8.0	7.7	6.9
PL2	6.7	4.7	7.3	6.7	6.0	8.0	8.7	6.9
SEABISCUIT	6.3	6.3	6.0	6.7	6.0	8.0	8.7	6.9
HATRICK (BSP-17)	6.7	4.3	7.3	6.3	6.0	8.3	8.3	6.8
DLFPS-236/3542	5.0	5.7	7.3	5.7	5.3	8.3	8.3	6.8
DLFPS-236/3544	7.0	5.7	6.3	6.3	6.0	7.7	8.7	6.8
PHARAOH	6.7	5.7	6.0	7.0	5.7	8.0	8.7	6.8
PPG-PR 421	6.7	4.0	7.3	7.0	6.3	8.0	8.0	6.8
SILVER SPORT (PST-2CRP)	6.3	6.7	7.3	6.3	5.0	7.7	7.7	6.8
ALLOY (RRT)	7.0	5.0	6.7	7.0	5.7	8.0	7.7	6.7
ASP0116EXT	5.3	5.3	7.3	6.3	5.7	8.0	7.7	6.7
DLFPS-236/3538	6.3	5.3	7.0	7.0	6.3	7.0	7.7	6.7
DLFPS-236/3552	7.0	4.3	6.7	8.0	7.0	7.0	7.0	6.7
DLFPS-236/3554	5.7	4.3	7.7	6.7	5.7	7.0	8.7	6.7
PPG-PR 420	6.3	5.7	7.0	6.7	6.0	7.3	7.7	6.7
PST-2EGAD	6.7	6.0	5.7	6.3	6.7	7.3	8.3	6.7
ASP0118GL (A-4G)	6.0	5.3	7.3	6.7	5.3	7.3	7.3	6.6
BAR LP 6164	6.3	5.0	7.0	6.7	6.0	6.7	8.3	6.6
DLFPS-238/3014	6.7	6.0	6.3	6.7	6.3	7.0	7.3	6.6
GRAY HAWK (PST-2FIND)	6.7	5.7	6.7	6.3	5.3	7.0	8.3	6.6
MAN O WAR	6.0	4.7	6.7	6.7	6.0	7.0	8.3	6.6
MRSL-PR16	6.0	5.7	7.7	6.0	5.3	6.3	8.3	6.6
OVERDRIVE 5G	6.0	5.0	6.7	6.7	5.3	7.7	8.3	6.6
PPG-PR 423	6.3	4.7	7.0	6.7	6.0	7.0	8.0	6.6
PR-6-15	6.3	3.7	7.3	6.7	5.3	8.0	8.3	6.6
SIGNET	6.0	5.0	7.0	6.0	5.7	7.3	8.7	6.6
02BS1	5.7	5.7	6.0	6.3	5.0	7.7	8.3	6.5
APR3060	6.7	5.0	6.7	7.0	6.3	6.7	7.3	6.5
CPN	6.0	5.7	6.0	6.3	5.7	7.3	8.0	6.5
DLFPS-236/3541	7.3	4.0	7.0	7.7	5.7	7.7	7.0	6.5
FASTBALL 3GL (PPG-PR 329)	6.7	5.0	5.7	6.7	6.0	7.7	8.0	6.5
PPG-PR 372	6.7	4.7	7.3	6.7	6.0	7.3	7.0	6.5
PPG-PR 424	6.7	4.7	6.0	7.3	5.3	7.3	8.3	6.5
RAD-PR 112	6.3	4.3	6.7	7.0	5.3	7.7	8.0	6.5
ASP0117 (A-PR15)	5.7	5.3	6.7	6.3	5.0	7.3	7.7	6.4
BAR LP 6159	7.7	5.0	5.7	8.0	6.7	6.0	7.0	6.4
FIREBALL (BWH)	5.7	4.3	7.7	6.0	5.7	8.0	7.0	6.4

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	QUALITY RATINGS							MEAN
	COLOR	MAY	JUN	JUL	AUG	SEP	OCT		
DLFPS-236/3546	6.0	4.3	6.0	6.7	6.0	7.7	8.0	6.4	
NP-2	6.3	5.3	6.0	6.7	5.7	7.3	7.7	6.4	
PEPPER II (RAD-PR 103)	6.0	4.7	6.0	7.0	6.0	7.3	7.3	6.4	
PPG-PR 370	6.0	4.3	6.7	6.0	5.3	8.0	8.0	6.4	
PPG-PR 385	6.7	5.7	6.7	7.3	5.7	7.0	6.3	6.4	
PST-2MAY	6.7	5.7	7.0	6.0	6.0	6.7	7.3	6.4	
SHIELD (02BS4)	6.3	5.7	6.0	6.7	5.3	6.7	8.0	6.4	
SPIKE GLS (UF3)	5.7	4.0	6.0	6.7	6.0	7.7	8.0	6.4	
023	7.3	4.7	5.7	7.7	6.0	7.0	7.0	6.3	
02BS2	6.3	6.0	6.3	6.0	5.0	7.3	7.3	6.3	
BAR LP 6158	6.0	5.0	6.0	7.0	5.3	7.3	7.3	6.3	
BAR LP 6233	6.7	5.3	6.0	6.0	6.3	7.0	7.3	6.3	
DLFPS-236/3540	5.3	5.3	6.7	6.0	5.0	6.7	8.3	6.3	
DLFPS-236/3548	6.3	4.3	7.0	7.0	5.3	6.7	7.3	6.3	
DLFPS-236/3553	6.0	5.0	6.7	6.7	5.0	6.3	8.3	6.3	
PARAGON 2 GLR (FP2)	6.7	4.7	6.7	7.0	5.0	7.7	7.0	6.3	
GRAY WOLF (PST-2GAL)	6.0	6.0	7.3	6.0	5.7	6.0	6.7	6.3	
PPG-PR 360	7.3	4.3	7.0	7.0	6.0	6.7	7.0	6.3	
PPG-PR 371	5.7	5.3	6.7	6.0	5.3	7.7	7.0	6.3	
PST-2FOXY	6.7	3.7	6.7	6.7	5.3	7.7	8.0	6.3	
SLIDER LS (PPG-PR 241)	6.3	5.3	7.0	6.0	6.0	6.7	6.7	6.3	
SNX	5.0	5.3	7.7	5.7	4.7	6.3	8.3	6.3	
SR 4650	5.3	5.0	6.3	5.7	5.7	7.0	8.0	6.3	
BRIGHTSTAR SLT	5.7	4.7	6.3	6.0	5.7	7.0	7.7	6.2	
DLFPS-236/3556	6.0	5.3	6.0	6.3	5.7	6.7	7.0	6.2	
GRAND SLAM GLD	6.7	5.0	6.7	6.3	6.0	6.3	7.0	6.2	
LPB-SD-102	5.3	3.3	7.3	5.7	4.7	7.7	8.3	6.2	
NP-3	6.0	5.7	5.7	6.0	5.3	7.0	7.3	6.2	
PPG-PR 422	6.3	5.7	6.7	5.7	4.7	6.7	7.7	6.2	
PR-5-16	5.0	5.0	6.7	5.7	5.3	6.7	7.7	6.2	
PST-2A2	5.7	4.7	6.7	6.0	5.3	7.3	7.3	6.2	
XCELERATOR	6.3	4.0	6.3	7.0	5.7	7.0	7.3	6.2	
APR2612	6.3	5.3	6.7	6.3	5.7	5.3	7.3	6.1	
EVOLVE	5.3	5.7	6.3	6.0	5.0	6.3	7.0	6.1	
INTENSE	5.3	5.0	6.0	6.0	5.7	6.7	7.3	6.1	
MRSL-PR15	5.7	4.7	6.0	6.3	5.3	7.0	7.3	6.1	
PST-2PDA	6.3	4.7	6.3	7.0	5.7	6.0	6.7	6.1	
DERBY XTREME	5.7	4.7	6.7	5.7	5.0	6.3	7.7	6.0	
PARADOX GLR (PPG-PR 331)	6.0	5.7	6.0	5.3	6.0	6.3	6.7	6.0	
SLUGGER 3GL (PPG-PR 343)	5.7	4.3	7.0	6.3	5.3	6.7	6.3	6.0	
APPLE 3GL (PPG-PR 339)	5.7	4.7	6.7	5.7	5.3	6.0	7.0	5.9	
ASP0218 (A-6D)	5.7	4.7	7.3	5.7	5.0	6.3	6.7	5.9	
BAR LP 6117	5.7	4.3	7.0	6.3	5.3	6.0	6.7	5.9	
CS-6	5.0	5.0	6.3	5.7	4.7	6.3	7.3	5.9	
LPB-SD-103	5.0	4.7	6.7	5.0	4.7	7.0	7.3	5.9	
LPB-SD-105	5.0	3.0	6.3	6.3	5.0	7.3	7.3	5.9	
APR2616	6.7	4.3	6.3	6.7	5.3	5.7	6.7	5.8	

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS						MEAN
		MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3550	5.7	4.3	6.3	5.7	5.3	6.3	6.0	5.7
GO-143	5.3	4.7	7.0	5.3	5.0	5.7	6.3	5.7
JR-123	5.3	4.0	5.3	6.0	5.0	6.3	7.3	5.7
PPG-PR 367	5.3	4.0	5.3	5.7	5.0	6.7	7.7	5.7
PST-2BDT	5.3	4.3	6.0	5.0	5.0	6.7	7.3	5.7
SAGUARO	5.3	4.3	7.0	5.7	4.7	6.0	6.3	5.7
ALLSTAR III	5.3	3.3	6.3	6.0	4.7	6.0	7.3	5.6
GREEN SUPREME+ (AMP-R1)	5.3	4.3	7.0	5.0	5.0	6.0	6.3	5.6
BAR LP 6131	5.7	5.0	5.7	6.0	5.3	5.7	6.0	5.6
GO-141	5.7	5.0	6.7	5.0	4.3	6.0	6.7	5.6
MENSA	5.3	3.0	5.7	5.7	4.7	7.3	7.0	5.6
BAR LP 6162	5.7	3.0	6.0	6.3	5.3	5.3	6.7	5.4
JR-888	5.0	4.0	5.7	6.0	4.3	6.0	6.3	5.4
LPB-SD-104	5.0	3.3	6.7	6.0	4.7	5.7	6.3	5.4
LPB-SD-101	5.0	3.0	6.0	5.3	4.3	6.3	7.0	5.3
KARMA	5.7	3.7	6.0	4.7	4.3	5.3	7.0	5.2
SAVANT	4.3	3.3	6.0	4.7	4.3	5.7	6.0	5.0
GO-142	5.0	3.7	6.0	5.0	4.3	5.0	5.7	4.9
LINN	5.7	5.3	4.0	4.7	5.3	4.0	4.7	4.7
JR-747	4.7	3.0	5.7	5.0	4.3	5.0	4.3	4.6
LSD VALUE	1.5	1.7	3.3	2.7	1.8	2.2	2.8	1.2
C.V. (%)	13.3	18.6	15.1	16.8	15.0	15.4	15.7	9.8

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

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

TABLE 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	SPRING	COLOR	QUALITY RATINGS							MEAN
	COLOR	GREENUP	NOVEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
XCELERATOR	7.7	8.7	6.3	8.3	9.0	6.3	6.0	6.7	6.3	7.3	7.1
BAR LP 6162	7.7	7.7	6.3	7.7	8.3	6.3	6.7	5.0	5.7	8.3	6.9
INTENSE	7.7	7.3	6.0	8.0	8.0	6.0	5.3	5.7	6.3	8.0	6.8
DLFPS-236/3547	8.0	7.3	6.0	8.0	8.0	4.7	5.7	5.7	6.3	8.3	6.7
PEPPER II (RAD-PR 103)	8.3	8.7	6.7	8.7	8.3	6.0	6.0	5.0	5.3	7.3	6.7
PPG-PR 421	7.3	7.3	6.0	7.7	7.7	6.0	6.7	5.3	5.7	8.0	6.7
RAD-PR 112	7.3	7.3	6.0	8.0	8.0	6.3	6.0	4.7	6.0	8.0	6.7
CS-6	7.7	6.7	6.7	7.7	8.0	6.3	5.3	5.3	5.7	7.7	6.6
DERBY XTREME	8.0	7.0	7.0	8.0	8.3	5.3	5.3	6.0	5.7	7.3	6.6
DLFPS-236/3548	7.0	8.0	6.3	8.0	8.0	5.3	4.7	5.7	6.0	8.3	6.6
HOMERUN LS (PPG-PR 419)	7.3	7.0	6.0	7.0	8.0	6.0	5.0	5.7	7.0	7.7	6.6
MRSL-PR16	7.7	7.7	6.3	8.3	8.0	6.3	5.3	4.7	5.7	7.7	6.6
OVERDRIVE 5G	7.7	7.7	6.0	8.0	8.3	5.7	5.7	5.3	5.3	8.0	6.6
PPG-PR 423	8.0	8.3	6.3	8.7	8.3	6.0	5.7	4.7	5.0	7.7	6.6
SAVANT	7.3	7.0	6.7	7.3	8.0	6.3	6.0	5.0	5.7	8.0	6.6
SHIELD (02BS4)	7.3	7.7	6.3	7.0	8.0	6.0	5.7	5.7	6.3	7.7	6.6
ASP0116EXT	8.0	7.3	6.3	7.7	8.0	6.3	6.0	4.3	5.3	7.7	6.5
DLFPS-236/3540	7.7	7.3	6.0	7.3	8.0	6.0	5.0	5.3	6.0	7.7	6.5
DLFPS-236/3554	8.0	7.3	6.3	7.7	7.7	5.7	5.7	5.7	5.7	7.7	6.5
DLFPS-236/3556	8.3	7.7	5.7	8.0	8.3	5.3	5.3	5.0	6.0	7.3	6.5
EVOLVE	7.3	6.7	6.0	7.3	7.7	5.7	5.7	6.0	5.7	7.7	6.5
SAGUARO	7.3	7.3	6.3	7.7	7.7	5.3	5.7	5.3	6.0	7.7	6.5
SLUGGER 3GL (PPG-PR 343)	8.0	7.3	6.7	8.0	8.0	5.3	5.0	5.7	6.3	7.0	6.5
DLFPS-236/3545	7.3	7.0	5.7	7.3	8.0	5.3	5.7	5.3	5.3	7.7	6.4
KARMA	7.7	7.7	6.0	8.0	8.0	5.0	4.7	5.0	6.0	8.3	6.4
PARADOX GLR (PPG-PR 331)	8.0	7.7	6.7	7.7	7.7	5.3	5.7	5.3	6.0	7.3	6.4
PPG-PR 420	7.3	7.3	6.0	7.7	8.0	5.3	4.7	5.7	6.0	7.3	6.4
PPG-PR 422	8.0	7.3	6.0	7.3	8.0	5.3	5.7	5.0	5.7	8.0	6.4
PST-2A2	8.0	8.0	6.3	8.0	7.7	5.7	5.3	4.7	5.7	7.7	6.4
SIGNET	7.0	7.3	7.0	7.3	7.7	5.0	5.3	5.7	6.3	7.7	6.4
GREEN SUPREME+ (AMP-R1)	7.7	7.3	7.0	7.7	8.0	5.7	5.3	4.3	5.3	7.7	6.3
APPLE 3GL (PPG-PR 339)	8.0	7.0	6.7	8.0	7.0	5.3	4.7	5.7	6.0	7.3	6.3
BAR LP 6164	7.0	7.7	5.7	7.0	8.0	5.7	6.0	5.0	5.3	7.3	6.3
FIREBALL (BWH)	8.3	8.0	6.7	7.7	8.0	5.7	5.7	4.7	5.0	7.3	6.3
DLFPS-236/3542	7.3	7.3	6.0	8.0	8.3	5.3	4.7	4.3	5.3	8.0	6.3
DLFPS-236/3546	7.7	7.0	5.7	7.7	8.0	5.0	5.3	5.7	5.3	7.3	6.3
GRAND SLAM GLD	7.7	7.0	6.0	8.0	8.0	5.7	5.3	4.3	5.3	7.3	6.3
NP-3	7.7	7.3	6.7	7.7	8.3	5.0	4.3	5.3	6.0	7.3	6.3
PPG-PR 424	7.3	7.7	6.3	8.0	8.0	5.7	4.7	5.0	5.3	7.3	6.3
SNX	8.0	8.0	6.7	7.7	7.7	4.3	4.7	5.3	6.7	7.7	6.3
SPIKE GLS (UF3)	7.7	7.7	6.0	7.7	8.0	5.3	5.0	4.7	6.0	7.3	6.3
02BS1	7.3	7.0	6.7	7.3	8.0	5.3	5.3	4.3	5.3	7.7	6.2
APR2616	8.3	7.7	5.7	7.3	7.7	4.7	4.7	5.3	6.0	7.7	6.2
ASP0117 (A-PR15)	7.7	7.3	6.0	8.0	8.0	4.7	4.3	5.0	6.0	7.7	6.2
DLFPS-236/3544	7.7	8.0	6.0	7.3	8.3	5.0	4.7	5.3	5.3	7.3	6.2
FASTBALL 3GL (PPG-PR 329)	7.3	7.7	6.3	7.3	8.0	4.7	4.7	5.3	6.0	7.7	6.2
GO-143	8.0	7.7	6.3	8.0	7.3	5.3	5.3	4.7	5.7	7.3	6.2

TABLE 5.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
2018 DATA

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

NAME	GENETIC	SPRING	COLOR	QUALITY RATINGS							MEAN
	COLOR	GREENUP	NOVEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
LPB-SD-103	8.3	7.0	7.0	8.0	8.0	5.0	4.3	4.3	5.7	8.0	6.2
LPB-SD-105	8.3	7.0	6.7	7.7	7.7	5.7	5.0	4.3	5.0	8.0	6.2
PL2	7.7	8.0	5.7	7.7	8.7	4.3	4.0	5.7	6.0	7.3	6.2
PPG-PR 370	7.3	7.7	6.7	8.0	8.3	5.0	5.0	5.0	5.0	7.0	6.2
PPG-PR 385	7.7	7.0	6.7	7.3	8.3	5.3	4.7	5.3	5.3	7.3	6.2
PR-6-15	7.3	8.0	6.7	7.3	7.7	4.7	5.0	5.0	6.0	7.7	6.2
SEABISCUIT	8.0	7.7	6.7	8.0	8.7	5.7	5.0	3.7	4.3	8.0	6.2
SR 4650	7.7	7.7	6.7	7.3	8.3	5.7	5.3	4.3	5.0	7.3	6.2
APR3060	8.3	7.0	5.7	8.7	8.0	4.3	5.0	4.0	5.0	7.7	6.1
BAR LP 6117	7.7	8.0	6.7	7.3	8.0	4.7	5.0	5.3	5.3	7.0	6.1
TEE-ME-UP (BSP-25)	7.7	8.0	6.0	7.7	8.0	5.0	5.0	4.7	5.3	7.3	6.1
DLFPS-236/3543	7.3	7.0	6.3	7.7	7.3	4.3	5.0	5.3	6.0	7.3	6.1
DLFPS-236/3552	7.7	7.7	5.7	7.3	7.7	5.0	4.7	5.3	5.7	7.3	6.1
DLFPS-236/3553	7.7	7.7	5.7	7.7	7.3	5.7	5.3	4.0	5.0	7.7	6.1
GRAY HAWK (PST-2FIND)	8.0	7.0	7.0	7.7	7.3	5.7	5.7	4.3	5.0	7.3	6.1
NP-2	8.3	8.0	6.3	7.7	7.7	4.0	4.0	5.7	6.0	7.7	6.1
PPG-PR 367	7.0	7.7	6.3	7.7	7.3	5.3	4.7	5.3	5.7	7.0	6.1
PPG-PR 372	7.7	7.3	6.3	7.3	7.7	4.7	4.7	5.3	6.0	7.0	6.1
PST-2EGAD	8.0	7.7	6.0	7.3	7.7	5.3	5.0	4.7	5.3	7.3	6.1
UMPQUA	8.0	7.3	6.3	7.7	7.7	5.7	5.3	4.0	5.0	7.7	6.1
APR2612	7.7	7.7	5.7	7.7	8.3	4.7	4.7	4.3	5.0	7.3	6.0
ASP0118GL (A-4G)	8.3	7.3	6.3	8.0	7.7	3.7	3.7	5.3	6.0	8.0	6.0
ASP0218 (A-6D)	7.3	7.7	6.0	7.7	7.7	4.3	4.3	5.0	5.3	7.3	6.0
BAR LP 6131	7.3	7.0	6.0	6.7	7.0	4.7	5.0	5.7	6.0	7.3	6.0
BAR LP 6158	8.0	7.3	6.0	8.0	8.0	5.0	4.7	4.3	5.0	7.0	6.0
BAR LP 6165	6.3	6.7	5.7	7.3	8.0	4.7	4.7	4.3	6.0	7.0	6.0
BAR LP 6233	7.3	7.0	6.7	7.0	7.3	4.7	4.7	5.0	5.0	8.3	6.0
BRIGHTSTAR SLT	7.3	7.7	6.3	7.3	7.3	5.0	4.3	5.7	5.3	7.3	6.0
CPN	8.0	7.7	6.7	7.0	7.7	5.0	5.7	4.0	4.7	7.7	6.0
DLFPS-236/3538	8.7	8.0	6.3	8.3	8.0	4.3	4.3	4.3	4.7	8.0	6.0
FURLONG (LTP-FCB)	7.0	7.7	7.0	7.7	7.3	4.7	4.3	5.3	5.0	7.3	6.0
GO-141	7.3	7.3	6.0	7.3	8.0	4.7	5.0	4.3	5.3	7.0	6.0
GRAY WOLF (PST-2GAL)	8.0	7.0	6.0	7.7	7.7	4.0	3.7	5.7	5.7	7.3	6.0
JR-197	8.3	7.7	6.3	7.7	7.7	5.7	5.0	4.3	4.7	7.3	6.0
LPB-SD-101	7.7	7.3	6.3	7.7	8.0	4.7	4.3	4.7	6.0	7.0	6.0
LPB-SD-102	8.3	7.3	6.7	7.7	8.0	4.3	4.3	4.7	5.3	7.3	6.0
PPG-PR 371	7.7	7.3	6.3	7.3	7.7	4.0	4.0	6.0	5.3	7.7	6.0
PST-2PDA	8.7	7.7	7.0	7.3	7.3	4.3	4.3	5.3	5.3	8.0	6.0
SILVER SPORT (PST-2CRP)	7.7	7.0	6.3	7.3	8.0	4.3	4.3	4.3	5.7	7.7	6.0
SLIDER LS (PPG-PR 241)	7.3	7.3	6.3	8.0	8.0	4.7	4.3	4.7	5.0	7.7	6.0
BAR LP 6159	8.0	7.3	6.3	7.3	7.3	4.7	4.3	4.3	6.0	7.0	5.9
DLFPS-236/3550	7.7	7.3	6.0	7.7	8.0	4.0	3.7	5.0	5.3	7.7	5.9
GO-142	8.0	7.3	6.0	7.7	7.7	5.7	4.7	3.7	4.7	7.3	5.9
JR-747	7.7	7.3	5.0	6.7	8.0	5.7	5.7	3.0	4.7	7.3	5.9
MRSI-PR15	7.0	7.3	6.7	7.7	8.0	4.3	4.7	4.3	4.7	7.3	5.9
PR-5-16	7.0	7.7	6.3	7.0	7.7	5.3	4.3	5.3	5.0	6.7	5.9
PST-2FOXY	7.7	7.7	6.7	8.0	7.7	5.7	4.7	4.0	4.7	6.7	5.9

TABLE 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
(CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
2018 DATA

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

NAME	QUALITY RATINGS										
	GENETIC COLOR	SPRING GREENUP	COLOR NOVEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PST-2MAY	7.3	7.7	6.0	7.7	7.7	3.3	3.7	5.3	6.0	7.7	5.9
ALLSTAR III	8.3	7.3	6.3	7.3	7.7	5.7	4.3	4.0	4.0	7.3	5.8
DLFPS-238/3014	6.7	6.7	6.3	7.0	8.0	4.7	5.3	3.7	4.7	7.3	5.8
JR-123	7.7	7.7	6.0	7.3	7.3	4.7	3.7	4.3	5.7	7.3	5.8
MAN O WAR	7.3	7.7	6.7	8.0	8.3	4.3	5.0	3.0	4.3	7.3	5.8
PHARAOH	7.7	7.7	6.3	8.3	8.0	4.7	4.3	3.7	4.7	7.0	5.8
PPG-PR 360	8.3	8.0	5.7	8.0	7.3	3.7	3.3	5.3	6.3	6.7	5.8
PST-2GTD	7.0	7.0	6.3	7.7	7.7	4.0	4.7	4.3	5.0	7.3	5.8
023	8.0	7.0	5.7	7.0	7.3	4.7	5.0	4.7	4.0	7.0	5.7
02BS2	7.3	7.3	5.7	7.0	8.3	5.3	4.7	3.3	3.7	7.3	5.7
HATRICK (BSP-17)	8.7	7.7	6.7	7.3	7.7	4.0	3.7	4.7	4.7	7.7	5.7
DLFPS-236/3541	7.7	7.7	6.3	7.3	7.3	4.3	5.3	3.7	4.3	7.3	5.7
PARAGON 2 GLR (FP2)	7.7	7.7	7.0	7.7	7.7	5.0	4.3	4.0	5.0	6.3	5.7
MENSA	8.3	7.3	6.0	8.3	8.0	3.7	4.0	4.0	5.0	7.0	5.7
ALLOY (RRT)	7.7	8.0	6.0	8.0	8.0	4.3	3.3	4.0	3.7	7.7	5.6
JR-888	7.3	7.0	5.3	7.3	7.3	4.7	5.7	3.0	4.0	7.0	5.6
021	7.7	7.0	6.7	8.0	7.3	4.3	4.0	3.0	4.3	7.7	5.5
LPB-SD-104	8.7	7.3	6.3	6.7	7.7	4.3	4.0	3.7	5.3	7.0	5.5
PST-2BDT	8.3	7.7	6.3	7.0	7.3	3.3	3.3	5.0	5.0	7.0	5.4
LINN	5.0	6.0	4.0	3.7	4.0	1.3	1.0	1.7	2.3	4.0	2.6
LSD VALUE	2.3	1.6	2.8	1.2	2.3	4.2	4.2	2.7	3.8	1.5	1.2
C.V. (%)	10.0	8.0	11.8	8.2	9.8	24.7	25.4	22.8	20.5	8.9	9.4

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

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

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
 2018 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS							MEAN
	APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3554	4.7	6.7	6.7	7.3	6.7	7.7	7.0	6.7
SILVER SPORT (PST-2CRP)	5.0	6.0	7.0	7.0	6.7	7.0	7.0	6.5
BAR LP 6117	4.3	6.0	7.0	7.3	6.0	7.7	6.7	6.4
DLFPS-236/3538	5.7	6.3	6.3	7.0	5.7	7.3	6.3	6.4
GRAY WOLF (PST-2GAL)	5.0	6.0	6.7	7.0	6.0	7.3	7.0	6.4
XCELERATOR	5.3	6.0	6.7	6.7	5.7	7.3	7.0	6.4
DLFPS-236/3542	5.0	5.7	6.7	7.0	5.7	7.0	7.0	6.3
DLFPS-236/3543	4.0	5.7	6.3	7.0	6.7	7.3	7.0	6.3
DLFPS-236/3545	4.7	5.7	6.7	6.7	6.0	7.7	7.0	6.3
DLFPS-236/3546	4.7	5.7	6.3	6.7	6.3	7.7	7.0	6.3
DLFPS-236/3550	4.3	5.7	6.7	6.7	6.3	7.7	7.0	6.3
FURLONG (LTP-FCB)	4.7	5.7	6.7	7.0	6.0	7.0	7.0	6.3
NP-3	4.3	5.7	6.3	7.0	6.0	7.7	7.0	6.3
APR2616	4.7	5.7	6.0	7.0	6.0	7.3	7.0	6.2
APR3060	3.7	6.0	6.7	7.0	5.7	7.3	7.0	6.2
BAR LP 6158	4.3	6.0	6.7	6.3	6.7	7.3	6.3	6.2
DLFPS-236/3540	5.3	6.3	6.7	6.3	4.3	7.3	7.0	6.2
DLFPS-236/3548	4.3	5.7	6.3	7.0	5.7	7.7	6.7	6.2
PPG-PR 371	4.7	5.3	6.3	6.7	6.3	7.0	7.0	6.2
PPG-PR 420	4.7	6.0	6.7	7.0	5.3	7.0	7.0	6.2
ALLOY (RRT)	4.3	5.3	6.3	6.7	5.7	7.7	7.0	6.1
CPN	4.7	5.3	5.7	7.0	5.7	7.3	7.0	6.1
DLFPS-236/3547	4.7	5.3	6.7	7.0	5.0	7.0	7.0	6.1
DLFPS-236/3552	4.3	6.0	6.3	7.0	5.3	7.0	7.0	6.1
FASTBALL 3GL (PPG-PR 329)	4.3	5.3	6.7	6.7	6.0	7.0	7.0	6.1
GRAND SLAM GLD	4.0	5.7	6.3	6.7	5.7	7.3	7.0	6.1
PPG-PR 370	4.0	5.0	6.3	6.7	6.3	7.3	7.0	6.1
PPG-PR 421	4.3	5.7	6.3	7.0	6.0	6.7	7.0	6.1
PPG-PR 423	5.0	5.3	5.7	6.7	5.3	8.0	7.0	6.1
PR-5-16	4.3	6.0	7.0	6.7	5.0	7.0	7.0	6.1
PST-2EGAD	4.0	5.7	6.0	7.0	5.7	7.7	6.7	6.1
023	4.0	5.0	5.3	7.0	6.0	7.7	6.7	6.0
APPLE 3GL (PPG-PR 339)	4.0	5.0	6.3	6.7	5.3	7.3	7.0	6.0
ASP0118GL (A-4G)	4.3	5.7	5.7	6.7	5.3	7.0	7.3	6.0
BAR LP 6159	4.3	5.7	6.3	6.3	5.7	7.3	6.3	6.0
BAR LP 6164	4.7	6.0	6.0	6.3	5.0	7.0	6.7	6.0
DLFPS-236/3541	4.3	5.3	5.7	6.7	5.7	7.3	7.0	6.0
DLFPS-236/3544	4.3	5.0	5.7	6.7	5.7	7.3	7.0	6.0
PARAGON 2 GLR (FP2)	5.0	5.3	6.7	7.0	5.0	6.7	6.7	6.0
GRAY HAWK (PST-2FIND)	4.0	5.7	6.0	6.3	5.7	7.0	7.0	6.0
HOMERUN LS (PPG-PR 419)	4.7	5.7	6.0	7.0	5.0	6.7	7.0	6.0
JR-123	4.3	5.3	5.7	6.7	5.7	7.3	7.0	6.0
JR-197	4.0	6.0	6.0	6.7	5.0	7.0	7.0	6.0
MAN O WAR	4.0	5.3	6.7	7.0	5.3	7.0	7.0	6.0
NP-2	5.0	5.3	5.7	6.7	5.3	7.0	7.0	6.0
PPG-PR 360	4.3	5.7	6.0	6.7	5.7	7.0	7.0	6.0
PPG-PR 372	4.3	5.3	6.3	7.0	6.0	6.3	7.0	6.0

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
2018 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS							MEAN
	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-PR 422	4.3	5.7	6.7	7.0	5.0	6.7	7.0	6.0
PPG-PR 424	4.0	5.0	5.3	7.0	6.3	7.3	7.0	6.0
PR-6-15	4.7	5.3	5.7	6.3	5.7	7.0	7.0	6.0
PST-2BDT	4.7	5.7	6.7	6.0	5.0	7.0	6.7	6.0
PST-2FOXY	4.0	5.7	6.0	6.7	5.3	7.0	7.0	6.0
PST-2GTD	4.3	5.7	6.0	6.7	4.7	7.0	7.3	6.0
SNX	3.7	5.3	6.3	6.0	6.3	7.0	7.0	6.0
APR2612	4.0	5.7	6.0	6.0	5.3	7.0	7.0	5.9
ASP0117 (A-PR15)	4.3	5.3	6.0	6.7	5.0	7.0	7.0	5.9
ASP0218 (A-6D)	4.3	5.0	6.3	6.0	5.7	6.7	7.0	5.9
DLFPS-236/3553	5.0	5.0	5.7	6.7	5.3	7.0	6.7	5.9
GO-142	4.0	5.7	6.0	6.3	5.7	6.7	7.0	5.9
MRSL-PR16	5.0	5.7	5.7	6.3	5.3	6.3	7.0	5.9
OVERDRIVE 5G	4.7	4.3	6.0	7.0	5.0	7.0	7.0	5.9
PARADOX GLR (PPG-PR 331)	4.0	5.3	6.0	6.7	5.3	7.0	7.0	5.9
PPG-PR 367	4.0	5.3	5.7	7.0	5.0	7.0	7.0	5.9
SHIELD (02BS4)	5.0	5.3	6.3	6.3	4.0	7.3	6.7	5.9
SLIDER LS (PPG-PR 241)	4.0	5.7	6.3	6.7	4.7	7.0	7.0	5.9
SLUGGER 3GL (PPG-PR 343)	4.0	5.3	6.3	6.7	5.0	7.0	6.7	5.9
02BS2	4.0	4.3	5.7	6.7	5.3	7.7	7.0	5.8
ALLSTAR III	3.7	6.0	6.0	6.3	5.3	6.3	7.0	5.8
GREEN SUPREME+ (AMP-R1)	3.7	5.7	6.3	6.0	4.7	7.3	6.7	5.8
BAR LP 6131	4.0	5.7	5.7	6.0	6.0	7.0	6.3	5.8
HATRICK (BSP-17)	4.3	5.3	6.3	6.3	4.3	6.7	7.0	5.8
DLFPS-236/3556	4.3	6.0	7.0	6.3	4.0	6.0	7.0	5.8
EVOLVE	4.0	5.3	6.3	6.3	5.3	6.7	6.3	5.8
GO-141	4.0	5.0	6.0	6.7	5.3	6.3	7.0	5.8
GO-143	3.7	5.3	6.0	6.0	5.7	7.0	7.0	5.8
SIGNET	5.0	6.0	6.0	6.0	4.7	6.0	6.7	5.8
021	4.0	5.0	5.3	7.0	5.0	6.7	6.7	5.7
ASP0116EXT	4.7	5.3	5.7	6.0	5.3	6.3	6.7	5.7
BAR LP 6162	4.3	5.0	6.0	6.3	5.0	6.7	6.7	5.7
TEE-ME-UP (BSP-25)	4.0	5.7	6.0	6.3	4.3	6.7	7.0	5.7
FIREBALL (BWH)	4.0	5.0	5.7	6.7	4.7	6.7	7.0	5.7
DERBY XTREME	4.3	5.7	6.3	6.0	5.7	6.0	6.0	5.7
PHARAOH	4.3	4.7	5.7	6.0	6.0	6.7	6.7	5.7
PPG-PR 385	4.3	5.0	6.3	6.0	4.7	6.7	6.7	5.7
PST-2A2	4.3	5.7	6.3	6.3	3.7	6.3	7.0	5.7
PST-2PDA	4.7	5.3	6.0	6.3	4.0	6.7	7.0	5.7
RAD-PR 112	4.7	5.3	5.7	6.0	4.7	6.7	7.0	5.7
SEABISCUIT	4.0	5.0	5.3	6.3	5.0	7.3	7.0	5.7
BRIGHTSTAR SLT	4.3	5.7	5.7	6.3	4.3	6.3	6.7	5.6
CS-6	4.0	5.7	5.7	6.0	4.7	6.0	7.0	5.6
INTENSE	4.3	5.0	5.3	6.0	5.3	6.0	7.0	5.6
LPB-SD-101	4.0	5.7	6.3	6.3	4.3	6.3	6.3	5.6
LPB-SD-104	4.3	6.7	6.0	6.0	3.7	6.3	6.3	5.6
PEPPER II (RAD-PR 103)	4.7	5.7	5.0	5.7	5.0	6.3	6.7	5.6

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
2018 DATA

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

NAME	QUALITY RATINGS							MEAN
	APR	MAY	JUN	JUL	AUG	SEP	OCT	
SAGUARO	5.0	4.7	6.3	6.0	4.3	6.3	6.3	5.6
DLFPS-238/3014	4.0	5.0	6.0	5.7	5.0	6.7	6.3	5.5
JR-888	4.0	6.0	6.7	6.0	4.3	5.7	6.0	5.5
LPB-SD-102	4.3	6.0	6.3	5.7	3.7	6.0	6.7	5.5
MRS1-PR15	4.0	4.3	5.7	6.3	4.3	7.0	6.7	5.5
SAVANT	3.7	5.3	6.3	6.3	4.0	6.7	6.3	5.5
SR 4650	3.3	5.7	6.0	6.0	4.3	6.3	7.0	5.5
UMPQUA	3.7	4.3	5.0	6.7	5.7	6.0	7.0	5.5
BAR LP 6165	4.3	5.3	6.0	5.3	4.7	6.7	5.3	5.4
BAR LP 6233	3.0	4.3	5.3	6.7	5.3	6.7	6.3	5.4
LPB-SD-103	4.0	6.0	5.7	6.3	3.7	5.7	6.3	5.4
LPB-SD-105	4.0	6.0	6.0	6.3	4.0	5.0	6.3	5.4
SPIKE GLS (UF3)	4.7	3.7	5.0	6.3	5.0	6.7	6.7	5.4
02BS1	4.0	5.0	5.0	5.7	4.0	6.3	7.0	5.3
PL2	4.0	5.0	4.7	6.3	4.3	6.3	6.7	5.3
JR-747	4.0	6.3	6.0	5.7	3.0	5.3	5.3	5.1
MENSA	3.3	6.0	5.7	6.0	3.3	6.0	5.7	5.1
LINN	3.0	3.7	3.7	3.3	2.7	4.0	4.7	3.6
LSD VALUE	1.7	1.5	1.4	1.0	1.6	1.2	0.7	0.5
C.V. (%)	15.3	12.4	11.0	8.4	17.2	9.8	5.8	5.6

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

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

TABLE 7.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2018 DATA

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

NAME	SPRING GREENUP	SEED HEAD	WEAR TOLERANCE RATINGS						QUALITY RATINGS						MEAN
			MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PARADOX GLR (PPG-PR 331)	5.0	7.0	5.7	5.7	6.0	6.3	6.3	6.7	6.7	6.3	7.0	6.7	6.7	6.0	6.5
CPN	4.3	6.0	5.3	5.3	6.7	6.0	6.0	5.3	6.3	6.7	6.7	6.7	6.3	5.7	6.2
JR-197	4.3	6.3	6.7	5.7	6.7	6.3	6.3	6.3	6.3	6.0	6.7	6.0	6.3	5.7	6.2
NP-3	5.3	6.7	6.0	5.7	6.0	6.3	6.0	6.3	6.7	5.7	6.0	6.3	6.3	6.0	6.2
PR-6-15	4.7	5.0	6.3	6.0	6.0	6.0	6.0	5.7	6.3	6.3	6.7	6.3	6.3	6.0	6.2
02BS2	4.7	6.3	5.3	5.3	6.7	6.0	5.3	6.0	6.7	6.3	6.0	6.7	6.0	6.0	6.1
APPLE 3GL (PPG-PR 339)	3.7	6.3	5.3	5.0	5.7	5.3	6.0	5.7	5.7	6.7	7.0	7.0	6.3	5.3	6.1
DLFPS-236/3553	3.7	5.0	4.7	5.0	5.0	6.0	6.7	5.3	6.3	6.0	6.3	6.0	6.0	6.0	6.1
FASTBALL 3GL (PPG-PR 329)	4.7	6.0	6.0	6.3	6.7	6.0	6.0	6.0	6.3	6.3	6.7	6.0	5.7	6.1	6.1
FURLONG (LTP-FCB)	3.7	7.0	5.0	5.7	6.7	5.7	6.0	6.3	6.7	6.3	6.7	6.7	5.7	5.3	6.1
PPG-PR 372	3.7	5.7	5.3	5.0	5.3	6.0	6.3	5.7	5.7	6.7	7.0	6.3	6.0	5.3	6.1
PPG-PR 421	5.3	6.7	5.7	5.3	6.0	6.3	6.7	6.0	6.7	6.7	6.0	6.0	5.7	5.3	6.1
SILVER SPORT (PST-2CRP)	3.7	6.3	4.3	5.0	5.0	5.7	6.3	5.7	6.3	6.7	6.7	6.3	6.0	5.3	6.1
DLFPS-236/3546	4.3	6.0	6.0	5.3	5.3	5.7	6.3	5.3	6.3	5.7	6.3	6.0	6.7	5.7	6.0
DLFPS-236/3547	4.3	5.0	5.7	6.0	5.7	6.3	6.0	5.0	6.3	6.3	6.3	6.3	5.7	5.3	6.0
DLFPS-236/3550	3.7	5.0	6.0	6.3	6.0	5.7	6.3	5.0	5.7	7.0	7.0	6.0	6.0	5.7	6.0
JR-123	3.7	5.3	6.0	5.7	6.3	6.3	5.7	5.3	6.0	6.3	6.7	6.3	5.7	5.7	6.0
PPG-PR 360	4.0	6.3	5.7	5.3	5.7	6.0	6.3	5.7	6.3	6.3	6.7	6.3	5.3	5.0	6.0
PPG-PR 424	5.3	6.3	5.3	5.0	5.3	5.7	6.0	6.0	6.0	6.3	6.3	6.0	6.0	5.3	6.0
PST-2GTD	3.3	5.7	4.7	5.0	5.3	5.0	6.0	5.3	6.7	6.3	6.7	6.3	6.3	5.3	6.0
SLUGGER 3GL (PPG-PR 343)	3.7	6.0	5.3	5.7	6.0	5.3	6.3	5.7	6.0	6.0	6.3	6.3	6.0	5.7	6.0
DLFPS-236/3543	3.7	6.3	6.0	5.3	5.7	5.0	6.0	6.0	6.3	6.7	6.3	6.0	6.0	5.0	5.9
DLFPS-236/3545	3.3	6.0	5.3	5.3	6.0	5.7	6.0	5.7	5.7	5.7	7.0	6.0	5.7	5.3	5.9
DLFPS-236/3552	3.3	6.0	6.7	5.7	6.3	5.7	5.7	5.7	6.0	6.0	6.7	6.3	6.3	5.0	5.9
INTENSE	5.0	6.0	5.7	5.3	5.3	6.0	5.7	6.0	6.0	5.3	6.3	6.0	6.0	5.3	5.9
PPG-PR 367	4.3	6.0	6.7	5.3	6.0	6.0	5.7	5.7	6.0	5.7	6.7	6.0	6.0	5.3	5.9
PPG-PR 370	3.0	5.7	4.7	5.7	5.7	5.7	6.7	5.7	6.3	6.0	5.7	6.0	6.0	5.0	5.9
PPG-PR 371	3.7	6.0	5.7	5.3	5.7	5.7	6.7	5.7	6.3	6.0	6.0	5.7	5.7	5.0	5.9
PPG-PR 420	4.3	6.3	6.0	5.3	6.0	5.7	5.7	5.7	6.3	6.3	6.3	6.0	5.7	5.3	5.9
PST-2A2	4.0	5.3	4.7	5.0	6.0	5.0	6.3	5.0	6.0	6.0	6.3	6.3	6.3	5.3	5.9
SLIDER LS (PPG-PR 241)	4.0	6.7	5.0	4.7	5.0	5.3	6.0	6.0	6.3	6.3	6.0	5.7	6.0	5.0	5.9
DLFPS-236/3541	4.3	6.0	6.3	6.3	5.7	5.7	6.0	5.0	6.0	6.0	6.0	6.0	6.0	5.7	5.8
DLFPS-236/3544	5.0	6.3	5.7	5.3	6.0	5.7	6.0	5.7	6.0	5.7	6.0	6.0	5.7	5.3	5.8
DLFPS-236/3548	3.3	6.0	5.3	5.3	5.3	5.0	6.3	5.7	6.3	6.0	6.3	5.7	5.7	5.3	5.8
DLFPS-236/3554	3.7	6.3	6.7	6.7	6.7	5.0	5.7	5.3	6.3	6.0	6.0	6.7	5.7	5.3	5.8
PHARAOH	5.7	6.0	6.0	6.0	5.7	6.0	5.7	6.3	6.0	5.7	6.0	5.7	5.7	5.3	5.8
PL2	4.7	5.3	6.0	5.3	5.3	6.0	5.7	5.3	6.3	5.3	6.3	6.0	6.0	5.3	5.8
PPG-PR 385	4.0	5.3	4.7	5.0	5.7	5.7	6.0	5.3	6.0	6.3	6.0	6.0	6.0	5.0	5.8
PST-2BDT	3.3	6.3	5.3	5.0	6.0	5.7	6.0	5.0	6.0	6.0	6.0	6.0	6.0	5.3	5.8
XCELERATOR	4.7	5.7	6.0	5.7	6.3	6.7	6.0	5.0	6.0	5.7	6.0	6.0	6.0	5.0	5.8
023	4.7	4.3	5.3	5.0	6.7	6.0	6.0	4.7	5.7	6.0	6.0	6.3	5.7	5.0	5.7
02BS1	4.0	6.0	5.3	6.0	6.0	5.3	6.0	5.3	5.3	5.7	6.0	5.7	6.3	5.3	5.7
APR3060	4.0	6.7	5.3	4.7	5.3	5.0	5.7	5.7	6.3	5.3	5.3	5.7	6.0	6.0	5.7
PARAGON 2 GLR (FP2)	4.7	5.7	6.0	5.3	6.7	5.3	5.3	6.0	5.7	5.7	6.0	6.0	6.3	5.3	5.7
GRAND SLAM GLD	4.0	4.3	4.3	4.7	5.3	6.0	6.0	4.3	5.0	6.0	6.3	6.0	6.0	5.3	5.7
MAN O WAR	3.7	4.3	5.3	5.7	5.7	5.7	5.7	5.0	5.3	6.0	6.0	6.3	6.0	5.7	5.7
NP-2	4.7	6.7	5.0	5.7	5.7	5.7	5.7	6.0	6.0	5.7	5.7	5.7	6.0	5.3	5.7

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2018 DATA

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

NAME	TURFGRASS QUALITY AND OTHER RATINGS					QUALITY RATINGS										MEAN
	SPRING GREENUP	SEED HEAD	WEAR MAY	TOLERANCE JULY	RATINGS OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
PPG-PR 423	4.0	5.7	4.3	5.3	5.3	5.0	6.3	5.7	6.0	6.0	5.7	6.0	5.3	5.3	5.7	
PR-5-16	4.0	6.7	5.0	5.3	5.3	5.7	5.7	5.7	6.0	6.3	6.3	5.3	5.3	5.3	5.7	
PST-2MAY	3.3	5.7	5.3	5.7	6.0	5.3	5.7	5.0	6.0	5.7	6.0	6.0	6.0	5.3	5.7	
SIGNET	4.3	5.7	5.0	5.7	6.3	5.3	6.3	5.3	6.0	6.0	6.3	6.0	5.0	5.3	5.7	
021	4.7	5.0	5.3	4.7	5.7	5.3	5.7	5.0	5.3	6.0	6.0	6.0	5.7	5.3	5.6	
ALLOY (RRT)	3.7	5.3	5.0	5.0	5.7	5.3	5.7	5.0	6.0	6.0	6.0	6.0	5.7	5.0	5.6	
ASP0117 (A-PR15)	4.0	6.0	5.0	5.3	5.3	5.3	6.0	5.3	5.7	6.0	5.7	5.7	5.3	5.3	5.6	
BRIGHTSTAR SLT	3.3	6.0	5.7	5.7	5.3	4.7	5.7	5.0	5.7	6.3	6.0	6.0	5.7	5.7	5.6	
DERBY XTREME	4.3	5.0	6.3	5.0	5.7	5.3	5.7	4.3	5.3	6.0	6.7	6.0	6.0	5.0	5.6	
DLFPS-236/3542	3.0	5.7	5.7	6.7	5.7	4.7	6.0	5.7	6.3	5.3	5.3	6.0	5.3	5.3	5.6	
HOMERUN LS (PPG-PR 419)	3.7	6.3	5.7	5.7	6.7	5.0	5.7	5.3	6.0	5.7	5.7	6.0	5.7	5.0	5.6	
LPB-SD-103	3.0	7.3	6.3	6.0	5.7	5.0	6.0	6.0	6.3	6.0	5.7	5.3	5.0	4.7	5.6	
PPG-PR 422	4.7	6.0	4.7	5.3	5.0	5.3	5.7	5.7	6.0	5.3	5.7	5.7	6.0	5.0	5.6	
PST-2FOXY	3.3	5.0	6.3	5.3	6.0	5.0	6.0	4.7	5.7	5.7	6.7	6.0	5.7	5.0	5.6	
SR 4650	3.7	5.0	6.0	5.7	5.7	5.7	5.3	5.7	5.7	6.3	5.7	5.7	5.7	5.0	5.6	
BAR LP 6159	3.3	6.7	5.7	5.0	4.3	6.0	5.7	6.0	6.0	5.7	4.7	5.3	5.0	5.0	5.5	
BAR LP 6164	3.3	6.7	6.0	6.3	5.7	5.0	5.3	6.0	6.0	5.7	5.7	5.3	5.3	5.0	5.5	
DLFPS-236/3556	5.0	5.3	5.3	5.0	6.0	6.3	5.7	5.0	5.3	5.7	5.7	5.3	5.7	5.0	5.5	
PST-2PDA	4.3	5.0	5.7	6.0	5.7	5.0	5.3	4.7	5.7	5.7	6.7	5.3	5.7	5.3	5.5	
SEABISCUIT	4.7	5.7	5.7	5.7	5.0	5.7	5.0	5.3	5.3	5.7	6.0	5.7	6.0	5.0	5.5	
SHIELD (02BS4)	3.3	6.0	5.0	5.3	6.3	5.3	5.3	5.3	5.3	5.7	5.3	6.0	5.7	5.3	5.5	
SPIKE GLS (UF3)	3.7	5.0	4.3	5.3	5.7	5.0	5.7	5.0	5.3	5.7	6.0	6.0	6.0	4.7	5.5	
ALLSTAR III	3.3	5.0	5.3	5.0	6.0	4.7	5.3	4.7	5.7	5.3	5.7	5.7	6.0	5.3	5.4	
ASP0118GL (A-4G)	3.0	6.0	6.0	6.0	6.3	5.0	6.0	5.0	5.7	5.7	5.3	5.7	5.3	5.3	5.4	
BAR LP 6233	4.0	7.0	5.3	5.7	6.3	5.0	5.3	5.7	5.7	5.7	5.7	5.3	5.3	5.0	5.4	
HATRICK (BSP-17)	3.7	5.7	5.3	6.3	6.0	6.3	6.0	5.0	5.3	5.7	5.7	5.3	5.0	4.7	5.4	
DLFPS-236/3538	4.0	5.3	5.3	4.7	5.3	5.7	5.7	5.3	6.0	6.0	5.7	5.3	5.0	4.3	5.4	
DLFPS-236/3540	3.0	5.3	5.7	5.7	6.0	5.0	5.7	5.0	5.7	6.0	5.7	5.7	5.7	4.7	5.4	
EVOLVE	3.7	5.3	5.0	5.0	5.7	5.3	5.7	5.3	5.7	5.7	5.3	5.7	5.3	5.0	5.4	
GRAY HAWK (PST-2FIND)	3.0	6.0	5.3	5.7	6.0	5.3	5.7	5.0	5.7	5.3	5.7	5.3	5.0	5.3	5.4	
KARMA	3.3	5.7	4.3	5.0	5.3	5.0	5.7	5.0	6.0	6.0	5.7	5.0	5.3	4.7	5.4	
OVERDRIVE 5G	4.0	5.0	5.0	5.3	5.3	4.7	5.3	5.3	5.3	5.7	5.7	5.7	5.7	5.0	5.4	
RAD-PR 112	3.3	5.0	6.0	5.7	5.7	6.0	5.7	4.7	5.7	5.3	5.7	5.7	5.3	5.0	5.4	
APR2616	3.3	6.7	5.7	5.7	6.0	5.0	5.7	5.0	5.3	5.7	5.3	5.3	5.3	5.0	5.3	
BAR LP 6117	2.7	7.3	4.7	4.7	4.7	5.7	5.0	6.0	6.3	5.3	5.0	5.0	4.7	4.7	5.3	
BAR LP 6165	3.3	6.3	4.7	4.7	5.0	4.3	4.7	5.0	6.0	5.7	5.7	5.3	5.3	5.3	5.3	
LPB-SD-101	2.7	7.3	4.3	3.7	4.3	5.3	5.3	6.0	5.7	5.7	4.7	5.0	5.3	4.7	5.3	
LPB-SD-102	2.3	7.3	5.3	5.7	6.0	5.7	5.7	5.3	5.3	5.3	5.0	5.3	5.0	4.7	5.3	
LPB-SD-105	2.7	8.0	4.3	3.7	4.0	5.7	6.0	5.0	5.0	6.0	4.7	5.0	5.3	5.0	5.3	
MRSL-PR15	4.0	5.0	5.0	5.3	5.7	5.0	5.3	4.7	5.3	6.0	5.3	5.7	5.3	5.0	5.3	
SNX	4.0	5.0	5.7	5.3	6.3	5.0	5.0	4.7	5.3	5.7	5.7	5.3	5.7	5.0	5.3	
GREEN SUPREME+ (AMP-R1)	3.3	5.3	5.3	5.3	5.0	5.0	5.7	4.7	5.0	5.3	5.7	5.3	5.3	5.0	5.2	
ASP0218 (A-6D)	4.3	5.3	4.7	5.0	5.7	5.0	6.0	4.3	5.0	5.3	5.0	5.7	5.7	5.0	5.2	
GO-142	3.7	4.3	6.0	6.0	6.7	4.3	5.7	4.7	5.0	5.7	5.3	5.7	5.3	5.0	5.2	
GRAY WOLF (PST-2GAL)	3.3	6.7	5.0	5.7	5.7	4.3	5.3	5.0	5.7	5.3	5.7	5.7	5.3	4.3	5.2	
JR-747	3.3	7.3	4.3	4.7	4.7	5.3	5.3	5.3	5.3	6.0	5.3	5.0	5.0	4.3	5.2	
LPB-SD-104	2.7	7.3	5.3	5.0	5.3	5.3	5.7	5.7	5.0	5.7	5.0	5.0	5.0	4.3	5.2	

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2018 DATA

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

NAME	SPRING GREENUP	SEED HEAD	WEAR TOLERANCE RATINGS			QUALITY RATINGS									MEAN
			MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PST-2EGAD	3.7	6.0	4.3	5.0	5.0	5.0	5.0	5.7	6.0	5.7	4.7	5.0	5.3	4.7	5.2
UMPQUA	3.7	4.7	4.3	4.7	4.7	5.0	6.0	5.0	5.3	5.3	5.7	5.0	5.0	4.7	5.2
APR2612	3.3	6.7	5.7	5.0	5.0	4.7	5.0	5.3	6.0	5.0	5.0	5.0	5.3	5.0	5.1
ASP0116EXT	3.7	5.3	4.7	5.0	5.7	4.3	5.3	4.7	5.3	5.3	5.0	5.3	5.3	5.0	5.1
BAR LP 6131	3.0	6.3	4.3	5.0	5.0	5.0	5.3	4.7	6.3	5.3	5.0	5.0	5.3	4.3	5.1
FIREBALL (BWH)	4.0	5.7	5.7	5.0	6.0	4.3	5.3	4.7	5.3	5.3	5.0	5.3	5.3	5.0	5.1
GO-143	3.3	4.3	5.3	5.7	5.0	5.3	5.7	4.3	5.3	5.0	5.0	5.0	5.0	5.0	5.1
JR-888	3.0	7.0	4.3	4.3	5.0	5.7	5.0	5.0	5.3	6.0	5.0	5.0	5.0	4.3	5.1
MENSA	3.7	7.3	5.0	5.3	5.3	5.7	5.0	5.0	5.0	5.3	5.0	4.7	5.0	5.0	5.1
MRSL-PR16	3.3	4.7	5.3	5.3	5.3	4.7	5.7	4.3	5.7	5.0	5.7	5.3	4.7	5.1	5.1
SAGUARO	2.7	6.3	4.3	4.3	5.3	4.7	5.7	5.7	5.7	5.7	4.7	4.7	5.0	4.7	5.1
SAVANT	3.0	7.0	4.3	5.0	5.0	5.7	6.0	5.3	5.3	5.3	4.3	5.0	4.7	4.0	5.1
BAR LP 6158	3.0	6.7	4.7	4.7	4.7	5.0	5.0	5.7	6.0	5.3	4.7	4.7	4.7	4.3	5.0
BAR LP 6162	2.7	5.7	4.3	5.0	5.3	3.7	5.0	5.3	5.3	5.0	5.0	5.0	5.0	5.3	5.0
TEE-ME-UP (BSP-25)	3.3	5.3	5.7	5.7	5.7	4.3	5.0	4.3	5.0	5.3	5.0	5.3	5.3	5.0	5.0
CS-6	4.0	5.7	6.0	5.7	5.7	5.0	5.0	4.7	5.0	5.0	4.7	5.7	5.0	5.3	5.0
DLFPS-238/3014	4.0	6.7	4.3	4.3	5.3	4.0	4.3	5.7	5.0	5.3	5.0	5.0	5.0	5.3	5.0
GO-141	3.0	4.0	4.0	4.7	4.7	4.0	6.0	4.3	5.0	5.3	5.0	5.0	5.0	5.0	5.0
PEPPER II (RAD-PR 103)	4.0	6.3	5.0	5.3	5.0	5.0	5.0	5.0	5.7	4.7	5.0	5.0	5.0	5.0	5.0
LINN	2.7	5.7	2.3	2.7	2.7	3.3	3.0	4.0	3.3	3.0	3.3	3.3	3.0	3.0	3.3
LSD VALUE	1.0	1.1	1.0	1.1	1.0	1.0	0.9	0.8	0.9	1.2	0.7	1.0	1.0	1.0	0.5
C.V. (%)	15.8	11.8	11.4	11.5	10.3	11.0	9.3	9.0	9.2	10.6	7.5	10.2	10.2	10.3	5.6

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

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

TABLE 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLLEGE PARK, MD 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	RED	QUALITY RATINGS							MEAN
	THREAD	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
DLFPS-236/3544	6.7	4.7	6.0	6.3	6.3	5.7	6.0	6.7	6.0
021	7.0	5.0	5.7	5.7	6.7	5.7	6.3	6.3	5.9
DLFPS-236/3554	5.7	4.3	5.7	6.7	6.7	5.0	6.0	6.0	5.8
PST-2GTD	5.3	4.7	5.7	6.3	5.7	5.0	6.0	6.3	5.7
DLFPS-236/3545	7.0	5.0	5.3	6.0	5.3	5.3	6.0	6.3	5.6
DLFPS-236/3552	5.3	5.0	5.7	6.0	5.3	5.0	5.7	6.7	5.6
PL2	8.0	5.7	5.7	6.0	5.3	5.0	5.7	5.7	5.6
02BS2	6.3	5.3	5.7	5.7	5.7	4.7	5.3	6.0	5.5
BAR LP 6164	6.0	4.3	5.3	6.0	6.0	4.7	5.7	5.7	5.4
DLFPS-236/3541	7.0	5.3	5.7	6.0	5.7	4.0	5.3	6.0	5.4
DLFPS-236/3543	7.0	4.7	5.3	6.0	6.0	4.7	5.3	5.7	5.4
DLFPS-236/3546	6.0	4.7	5.3	6.0	5.7	5.3	5.7	5.3	5.4
PPG-PR 421	6.7	5.0	5.7	5.3	5.7	5.0	5.7	5.3	5.4
DLFPS-236/3548	6.0	5.3	5.7	6.0	5.3	4.3	5.0	5.3	5.3
SPIKE GLS (UF3)	7.0	5.3	5.7	6.3	5.0	4.3	5.3	5.0	5.3
GRAND SLAM GLD	6.7	5.7	6.0	6.0	5.7	3.7	4.7	5.0	5.2
PST-2EGAD	4.0	4.0	5.0	5.3	6.3	4.0	5.3	6.3	5.2
APPLE 3GL (PPG-PR 339)	5.7	4.3	5.3	6.0	6.0	3.7	4.7	5.7	5.1
PPG-PR 423	6.3	4.3	5.3	5.7	6.0	4.7	5.0	4.7	5.1
SHIELD (02BS4)	6.3	4.7	5.0	5.3	5.3	4.7	5.7	5.3	5.1
SLUGGER 3GL (PPG-PR 343)	5.7	4.7	5.3	5.7	4.7	5.0	5.3	5.3	5.1
XCELERATOR	6.3	4.7	4.3	5.7	5.7	5.0	5.3	5.0	5.1
ALLOY (RRT)	6.0	4.3	5.0	5.7	5.7	4.7	5.0	5.0	5.0
ASP0118GL (A-4G)	5.3	4.0	5.0	4.3	5.3	5.0	5.7	5.7	5.0
HATRICK (BSP-17)	6.7	4.7	5.0	4.3	5.7	4.3	5.0	5.7	5.0
DLFPS-236/3540	5.7	4.7	5.3	5.7	5.3	4.3	5.0	4.7	5.0
DLFPS-236/3542	6.3	4.7	5.0	6.0	5.0	4.3	5.0	5.0	5.0
EVOLVE	6.0	5.0	5.0	5.0	4.7	4.0	5.0	6.0	5.0
JR-123	7.7	4.7	5.0	5.0	5.0	4.7	5.0	5.3	5.0
JR-197	6.0	4.7	5.3	6.7	5.0	3.7	4.7	5.0	5.0
APR2612	5.3	4.7	4.7	5.3	4.3	4.3	5.3	5.3	4.9
ASP0218 (A-6D)	3.7	3.7	4.7	5.0	5.3	5.0	5.3	5.3	4.9
DLFPS-236/3550	6.0	4.0	5.0	5.0	4.7	4.3	5.0	6.0	4.9
DLFPS-236/3556	7.3	4.7	5.3	6.0	5.0	4.3	4.7	4.3	4.9
GRAY WOLF (PST-2GAL)	5.0	4.3	4.7	6.3	5.0	3.7	4.7	5.3	4.9
PPG-PR 360	5.0	4.3	5.0	5.3	5.7	4.3	5.0	4.7	4.9
PPG-PR 370	5.7	4.7	5.3	5.7	5.0	4.0	4.7	4.7	4.9
PPG-PR 422	6.3	4.7	5.3	5.3	5.0	4.0	5.0	4.7	4.9
PPG-PR 424	5.7	4.7	5.0	6.0	5.0	4.3	5.0	4.3	4.9
PST-2MAY	4.0	4.0	4.7	5.7	5.7	4.0	5.0	5.3	4.9
SILVER SPORT (PST-2CRP)	5.3	4.0	4.7	5.7	5.0	4.7	5.0	5.0	4.9
BAR LP 6159	4.0	3.7	5.0	5.3	5.3	4.0	5.0	5.0	4.8
BAR LP 6233	4.3	3.7	4.3	5.3	5.7	4.0	5.3	5.3	4.8
FASTBALL 3GL (PPG-PR 329)	6.0	5.0	5.0	5.3	4.7	3.3	4.7	5.7	4.8
INTENSE	6.7	4.0	4.7	5.0	5.7	4.0	5.0	5.3	4.8
MRSL-PR15	6.0	5.0	5.3	5.3	4.3	4.0	4.7	4.7	4.8
MRSL-PR16	6.7	4.3	4.7	5.0	4.7	4.0	5.0	5.7	4.8

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLLEGE PARK, MD 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	RED	QUALITY RATINGS							MEAN
	THREAD	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PPG-PR 420	5.7	4.7	5.0	5.3	5.7	4.0	4.3	4.7	4.8
PR-6-15	6.7	5.0	4.7	4.7	4.7	4.0	5.0	5.7	4.8
PST-2BDT	3.7	4.0	4.7	5.0	4.7	4.3	5.3	5.3	4.8
PST-2FOXY	4.3	4.0	4.7	5.7	4.7	4.3	5.0	5.3	4.8
APR3060	5.0	4.3	4.7	5.7	5.3	4.0	4.3	4.3	4.7
BAR LP 6117	5.3	4.0	5.0	5.7	5.7	3.0	4.3	5.3	4.7
DLFPS-236/3538	5.7	4.3	5.0	5.0	4.7	3.7	5.0	5.3	4.7
PPG-PR 367	6.7	4.3	4.7	4.7	5.0	4.3	4.7	5.3	4.7
PR-5-16	4.0	4.0	5.0	5.7	5.0	4.0	4.3	4.7	4.7
SNX	5.7	3.7	4.7	5.0	5.0	4.0	4.7	5.7	4.7
UMPQUA	4.3	3.7	4.7	5.3	6.0	3.7	4.7	5.0	4.7
APR2616	5.3	4.7	5.0	5.3	4.3	3.7	4.3	4.7	4.6
DLFPS-236/3553	4.3	3.3	4.3	4.7	4.7	4.3	5.0	5.7	4.6
PARAGON 2 GLR (FP2)	4.7	4.0	5.0	6.0	4.7	3.7	4.3	4.3	4.6
GO-142	6.0	4.3	5.0	4.7	4.0	4.3	5.0	5.0	4.6
HOMERUN LS (PPG-PR 419)	4.7	3.7	4.7	5.3	4.7	4.0	4.7	5.0	4.6
PPG-PR 371	5.7	4.7	5.0	5.3	5.0	3.3	4.3	4.7	4.6
PST-2PDA	4.3	3.3	4.0	4.3	4.7	5.0	5.3	5.7	4.6
SEABISCUIT	5.7	4.7	5.0	5.0	5.7	3.3	4.3	4.0	4.6
SLIDER LS (PPG-PR 241)	5.3	4.0	4.3	4.7	4.7	4.3	4.7	5.3	4.6
02BS1	5.7	3.7	4.7	5.0	4.3	4.0	4.3	5.3	4.5
ASP0116EXT	7.0	5.0	4.7	4.7	4.3	4.0	4.3	4.7	4.5
ASP0117 (A-PR15)	7.0	5.0	5.0	5.3	4.3	4.0	4.0	4.0	4.5
BAR LP 6131	5.7	4.0	5.0	5.3	4.7	3.3	4.3	5.0	4.5
DLFPS-236/3547	6.3	4.3	5.0	5.3	5.0	4.0	4.0	4.0	4.5
FURLONG (LTP-FCB)	6.7	5.3	4.7	5.3	4.0	3.3	4.3	4.7	4.5
BAR LP 6158	3.0	3.3	4.3	5.3	5.7	3.7	4.3	4.3	4.4
CPN	4.7	3.7	4.3	5.0	4.3	4.0	4.7	5.0	4.4
CS-6	4.7	3.7	4.3	4.7	5.0	4.0	4.7	4.7	4.4
DLFPS-238/3014	5.7	4.0	4.3	4.3	4.0	4.0	5.0	5.0	4.4
MAN O WAR	4.7	3.7	4.3	5.3	4.0	4.3	4.3	4.7	4.4
NP-2	6.3	4.7	5.0	5.3	4.3	3.3	4.0	4.0	4.4
PHARAOH	4.7	3.3	4.0	5.3	5.0	3.7	4.7	4.7	4.4
PPG-PR 372	5.0	4.0	4.7	5.7	4.3	3.3	4.3	4.7	4.4
PST-2A2	4.7	3.0	4.3	4.3	4.7	4.3	4.7	5.7	4.4
RAD-PR 112	4.7	4.0	4.3	4.3	4.3	4.0	4.7	5.0	4.4
SIGNET	5.7	3.7	4.0	4.3	4.7	3.7	4.7	5.7	4.4
NP-3	5.0	3.7	4.3	5.3	4.3	4.0	4.3	4.3	4.3
OVERDRIVE 5G	6.0	4.3	4.3	4.3	4.3	4.0	4.3	4.7	4.3
PARADOX GLR (PPG-PR 331)	5.0	3.3	4.3	5.0	4.3	4.0	4.7	4.7	4.3
023	5.7	4.0	4.7	5.7	3.7	3.0	4.0	4.3	4.2
GREEN SUPREME+ (AMP-R1)	3.3	3.3	4.3	4.7	4.7	3.7	4.3	4.7	4.2
GO-143	5.7	3.7	4.0	4.3	4.3	3.3	4.3	5.3	4.2
DERBY XTREME	6.3	3.7	4.7	5.3	4.3	2.7	3.7	4.3	4.1
PEPPER II (RAD-PR 103)	5.7	4.3	4.7	4.7	4.3	3.3	3.7	4.0	4.1
PPG-PR 385	5.0	4.3	4.3	5.3	4.3	2.7	3.7	4.0	4.1
ALLSTAR III	4.7	3.7	4.3	5.3	3.7	3.3	3.7	3.7	4.0

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLLEGE PARK, MD 1/
2018 DATA

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

NAME	RED	QUALITY RATINGS							MEAN
	THREAD	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
TEE-ME-UP (BSP-25)	7.3	5.0	4.7	4.3	3.7	3.3	3.7	3.7	4.0
FIREBALL (BWH)	5.7	4.0	4.3	4.7	4.0	3.7	3.7	3.7	4.0
GRAY HAWK (PST-2FIND)	4.0	3.3	3.7	4.7	4.7	3.3	3.7	4.3	4.0
SR 4650	4.7	3.7	4.3	5.0	3.7	3.3	4.0	4.0	4.0
BAR LP 6162	7.3	5.0	4.7	4.3	3.3	2.3	3.3	4.0	3.9
GO-141	7.0	4.3	4.0	4.3	3.3	3.3	3.7	4.0	3.9
KARMA	4.3	3.3	4.0	4.7	3.7	3.0	3.7	4.3	3.8
BRIGHTSTAR SLT	6.3	3.7	4.0	4.7	4.0	3.0	3.3	3.0	3.7
SAGUARO	5.0	4.0	3.7	4.7	3.7	2.7	3.0	3.0	3.5
BAR LP 6165	2.3	2.3	2.7	3.0	4.7	2.7	3.0	3.7	3.1
JR-888	6.7	4.0	3.7	4.0	2.3	2.3	2.3	2.3	3.0
LPB-SD-103	5.0	3.3	3.3	3.7	3.7	2.0	2.7	2.7	3.0
MENSA	7.3	3.3	3.3	3.7	3.0	2.7	2.7	2.0	3.0
JR-747	5.7	3.0	3.0	3.0	2.7	2.7	2.7	3.0	2.9
LPB-SD-102	6.0	3.0	3.0	4.0	2.7	2.3	2.7	2.7	2.9
LPB-SD-104	6.3	3.0	3.3	4.0	3.0	2.0	2.3	2.3	2.9
SAVANT	6.0	3.7	3.7	3.7	2.7	2.3	2.0	2.0	2.9
LPB-SD-101	6.7	3.0	3.0	3.0	3.0	2.3	2.3	2.0	2.7
LPB-SD-105	6.0	2.3	2.3	3.3	2.0	2.0	2.0	2.0	2.3
LINN	2.3	2.0	2.0	2.0	1.7	1.0	1.0	1.0	1.5
LSD VALUE	2.7	1.2	1.1	0.9	1.2	1.2	1.1	1.2	0.7
C.V. (%)	23.7	16.6	14.0	11.4	16.1	19.0	15.2	16.0	10.0

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 EAST LANSING, MI 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	SPRING	QUALITY RATINGS							MEAN
	COLOR	GREENUP	MAY	JUN	JUL	AUG	SEP	OCT		
APPLE 3GL (PPG-PR 339)	7.0	5.7	6.3	7.0	7.0	7.0	7.0	6.7	6.8	
BAR LP 6233	6.7	6.0	5.3	6.3	7.0	7.0	7.3	7.0	6.7	
DLFPS-236/3552	6.7	6.0	5.7	6.3	7.3	7.0	7.0	6.7	6.7	
FURLONG (LTP-FCB)	7.3	5.7	6.3	7.0	7.0	6.0	7.3	6.7	6.7	
PPG-PR 423	7.0	5.3	6.0	6.3	7.0	7.0	7.3	6.7	6.7	
ALLOY (RRT)	7.3	4.7	5.7	6.0	7.0	6.7	7.3	6.7	6.6	
DLFPS-236/3550	7.0	5.0	5.7	6.3	6.7	6.7	7.3	6.7	6.6	
LPB-SD-105	6.7	5.3	5.7	5.7	7.0	7.0	7.3	6.7	6.6	
PPG-PR 367	7.0	5.7	6.0	6.7	7.0	6.7	7.0	6.3	6.6	
PR-6-15	7.0	5.3	5.7	6.7	7.0	7.0	6.7	6.3	6.6	
PST-2A2	7.0	5.3	6.3	6.3	7.0	6.0	7.0	6.7	6.6	
SLUGGER 3GL (PPG-PR 343)	7.0	5.0	6.0	6.3	7.0	6.3	7.0	6.7	6.6	
PL2	7.0	5.0	5.7	6.0	7.0	6.7	7.0	6.7	6.5	
PST-2PDA	6.7	5.3	6.3	6.0	7.0	6.3	7.3	6.0	6.5	
DLFPS-236/3548	7.0	6.0	6.0	6.3	6.7	6.3	7.0	6.0	6.4	
GRAY WOLF (PST-2GAL)	7.3	5.3	6.3	6.0	7.0	5.7	6.7	6.7	6.4	
NP-2	7.0	5.7	5.7	6.0	7.3	6.3	7.0	6.0	6.4	
PHARAOH	7.0	5.3	5.7	5.7	7.0	7.0	7.3	6.0	6.4	
PPG-PR 372	7.0	5.7	5.7	6.7	6.7	6.3	7.0	6.3	6.4	
PPG-PR 420	7.0	6.0	5.7	6.0	6.7	6.3	7.3	6.3	6.4	
PPG-PR 424	7.0	5.0	5.7	6.7	6.7	6.3	6.7	6.7	6.4	
SAVANT	6.3	5.3	6.3	6.3	6.7	6.7	6.3	6.0	6.4	
SILVER SPORT (PST-2CRP)	7.0	5.7	6.3	6.0	6.7	6.0	6.7	6.7	6.4	
023	7.3	6.0	6.0	6.0	6.7	6.7	6.7	6.0	6.3	
BAR LP 6159	6.7	5.0	6.3	6.0	6.3	6.0	7.0	6.0	6.3	
DLFPS-236/3541	7.0	5.3	5.3	6.0	7.0	6.7	6.7	6.0	6.3	
DLFPS-236/3542	7.3	5.7	5.3	5.7	7.0	6.3	7.0	6.3	6.3	
DLFPS-236/3543	7.0	5.7	5.7	6.3	6.3	6.3	6.7	6.7	6.3	
DLFPS-236/3546	7.3	5.3	5.3	5.7	6.7	6.3	7.0	6.7	6.3	
DLFPS-236/3556	7.3	5.7	5.3	5.7	6.7	6.7	7.0	6.7	6.3	
GRAY HAWK (PST-2FIND)	7.0	5.7	6.0	6.3	6.3	6.0	6.7	6.3	6.3	
MAN O WAR	7.3	5.7	6.3	6.0	6.3	6.3	7.0	5.7	6.3	
MENSA	7.0	5.0	5.0	6.3	7.0	6.7	6.7	6.3	6.3	
PARADOX GLR (PPG-PR 331)	7.0	5.0	5.7	6.0	7.0	6.3	6.7	6.3	6.3	
PPG-PR 370	7.0	5.7	5.7	6.0	6.7	6.7	7.0	6.0	6.3	
PPG-PR 421	7.0	5.0	5.7	6.0	7.0	6.0	7.0	6.3	6.3	
PST-2BDT	7.0	5.7	6.3	6.7	6.7	6.0	6.0	6.0	6.3	
021	7.3	5.0	5.3	6.0	6.3	6.0	7.0	6.7	6.2	
ASP0116EXT	7.7	5.7	5.3	6.0	6.7	6.0	7.0	6.3	6.2	
BAR LP 6164	6.7	4.7	5.3	5.7	7.0	6.3	7.0	6.0	6.2	
BAR LP 6165	7.0	5.7	5.3	6.0	7.0	6.3	6.3	6.0	6.2	
DERBY XTREME	7.3	5.7	5.3	5.7	6.7	6.3	6.7	6.3	6.2	
DLFPS-236/3545	7.0	5.3	5.0	6.0	6.7	6.0	7.0	6.3	6.2	
DLFPS-236/3553	7.0	5.0	6.0	6.7	6.3	6.3	6.3	5.7	6.2	
DLFPS-236/3554	7.0	5.3	6.0	6.0	6.7	6.0	6.3	6.0	6.2	
FASTBALL 3GL (PPG-PR 329)	7.0	6.0	5.7	6.0	6.7	5.7	7.0	6.0	6.2	
NP-3	7.0	5.0	5.3	5.3	7.0	6.0	7.0	6.3	6.2	

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT EAST LANSING, MI 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING				QUALITY RATINGS				MEAN
		GREENUP	MAY	JUN	JUL	AUG	SEP	OCT		
PPG-PR 360	7.0	5.3	5.7	6.0	6.7	5.7	7.3	5.7	6.2	
PPG-PR 371	7.0	5.3	5.7	5.7	6.7	6.3	7.0	6.0	6.2	
PPG-PR 422	7.0	5.3	5.3	6.0	6.7	6.0	6.7	6.3	6.2	
PR-5-16	7.0	5.0	6.0	6.7	6.3	5.7	6.7	6.0	6.2	
PST-2EGAD	7.0	5.3	6.3	5.7	6.7	5.7	7.0	6.0	6.2	
PST-2MAY	6.7	5.3	5.7	5.7	6.3	5.7	7.0	6.7	6.2	
SIGNET	7.0	5.0	5.7	5.7	6.3	6.3	6.7	6.7	6.2	
UMPQUA	7.3	4.7	6.0	5.7	6.7	5.7	6.7	6.7	6.2	
02BS2	7.0	5.0	5.3	5.3	6.3	6.3	7.0	6.0	6.1	
ALLSTAR III	7.0	5.3	5.7	6.0	6.3	6.0	6.7	5.7	6.1	
APR2616	7.3	5.3	5.3	6.0	6.7	5.7	6.7	6.3	6.1	
ASP0117 (A-PR15)	7.3	5.7	5.7	5.7	6.7	5.3	7.0	6.0	6.1	
BAR LP 6131	7.0	5.0	5.3	6.0	6.3	6.3	6.7	6.0	6.1	
BAR LP 6158	7.0	5.7	6.0	6.0	6.7	6.3	5.7	5.7	6.1	
CS-6	7.3	5.3	5.7	5.7	6.3	5.7	7.0	6.0	6.1	
DLFPS-236/3547	6.3	5.3	4.7	5.7	6.7	6.3	7.0	6.3	6.1	
EVOLVE	7.7	5.3	5.3	5.7	6.3	6.0	7.0	6.0	6.1	
HOMERUN LS (PPG-PR 419)	7.0	5.0	5.7	6.0	6.3	5.7	6.7	6.0	6.1	
JR-197	6.7	5.7	5.3	6.0	6.3	6.3	6.7	6.0	6.1	
KARMA	7.0	5.3	5.7	6.3	6.3	5.3	6.7	6.0	6.1	
LPB-SD-102	7.0	5.0	5.7	6.0	6.3	6.7	6.7	5.3	6.1	
PST-2FOXY	7.3	5.7	5.3	5.7	6.3	6.7	6.3	6.0	6.1	
PST-2GTD	7.0	5.3	6.0	6.3	6.7	5.7	6.3	5.7	6.1	
SEABISCUIT	7.0	4.7	5.3	5.7	6.7	6.7	6.3	5.7	6.1	
SLIDER LS (PPG-PR 241)	7.0	5.3	5.7	5.7	6.7	5.3	6.7	6.3	6.1	
XCELERATOR	7.0	5.3	5.7	5.7	7.0	5.3	6.7	6.3	6.1	
02BS1	7.0	5.7	5.3	5.7	6.7	5.7	6.7	6.0	6.0	
DLFPS-236/3540	7.0	5.3	5.7	5.7	6.3	6.3	6.3	5.7	6.0	
SHIELD (02BS4)	7.3	5.7	5.7	5.3	6.3	5.7	6.7	6.3	6.0	
BRIGHTSTAR SLT	6.3	5.3	5.7	6.0	6.3	5.3	6.3	6.0	5.9	
FIREBALL (BWH)	7.7	6.0	6.0	5.3	6.0	6.3	6.0	5.7	5.9	
CPN	7.3	5.7	5.7	5.0	6.0	5.7	7.0	6.3	5.9	
DLFPS-236/3544	7.0	5.3	4.7	5.3	6.3	6.0	6.7	6.3	5.9	
JR-123	7.0	5.0	5.7	5.7	6.3	6.0	6.0	5.7	5.9	
JR-888	7.0	5.0	4.7	5.3	6.3	6.3	6.7	6.3	5.9	
MRS�-PR15	7.3	5.3	5.7	5.0	6.3	6.0	6.7	5.7	5.9	
MRS�-PR16	7.0	4.7	5.3	5.3	6.0	6.0	6.7	6.0	5.9	
PPG-PR 385	7.0	5.0	4.7	5.3	6.3	6.0	6.7	6.3	5.9	
GREEN SUPREME+ (AMP-R1)	7.7	5.7	5.3	5.3	6.0	5.3	7.0	5.7	5.8	
GRAND SLAM GLD	7.0	5.3	6.0	5.3	6.3	5.7	6.0	5.7	5.8	
PEPPER II (RAD-PR 103)	7.7	5.0	5.3	5.7	6.3	5.7	6.3	5.7	5.8	
SPIKE GLS (UF3)	7.3	5.3	5.3	5.7	6.0	5.7	6.3	5.7	5.8	
APR2612	7.3	5.7	4.7	5.3	6.3	5.3	6.7	6.0	5.7	
ASP0118GL (A-4G)	7.7	4.7	4.7	5.3	6.0	5.3	6.7	6.0	5.7	
ASP0218 (A-6D)	7.0	5.7	5.0	5.3	6.0	5.7	6.7	5.7	5.7	
BAR LP 6117	7.0	5.3	5.0	5.3	6.3	5.7	6.3	5.7	5.7	
DLFPS-236/3538	7.0	5.7	5.7	5.3	6.0	5.7	6.3	5.3	5.7	

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT EAST LANSING, MI 1/
2018 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS					OCT	MEAN
			MAY	JUN	JUL	AUG	SEP		
OVERDRIVE 5G	7.0	6.0	5.7	5.7	6.0	5.7	6.0	5.0	5.7
RAD-PR 112	7.3	5.3	5.3	5.7	6.0	5.0	6.7	5.3	5.7
SAGUARO	7.0	5.0	5.7	5.7	6.0	5.0	6.3	5.3	5.7
SNX	7.3	5.0	5.7	5.7	6.0	5.7	6.0	5.3	5.7
SR 4650	7.0	5.3	5.7	5.0	6.0	5.7	6.7	5.3	5.7
HATRICK (BSP-17)	7.7	5.0	4.3	5.0	6.3	6.0	6.7	5.3	5.6
PARAGON 2 GLR (FP2)	7.0	6.3	5.7	5.0	6.3	5.3	6.0	5.0	5.6
LPB-SD-101	7.0	5.0	4.7	5.0	6.7	5.7	6.3	5.3	5.6
LPB-SD-104	7.0	5.3	5.0	5.3	6.0	6.0	6.3	5.0	5.6
GO-141	7.0	5.3	5.7	5.0	6.0	5.0	6.0	5.3	5.5
GO-142	7.3	5.0	5.3	5.3	5.7	5.0	6.0	5.7	5.5
LPB-SD-103	7.0	5.7	5.3	5.3	6.0	5.7	5.7	5.0	5.5
APR3060	7.3	5.0	4.7	5.3	6.0	5.3	6.0	5.3	5.4
TEE-ME-UP (BSP-25)	7.3	5.7	5.0	5.0	5.7	5.3	6.7	5.0	5.4
GO-143	7.0	5.7	4.7	5.0	5.7	5.3	6.0	5.3	5.3
INTENSE	7.0	5.0	5.0	4.7	5.7	5.0	6.3	5.3	5.3
JR-747	6.7	5.3	5.0	5.7	5.3	5.0	6.0	5.0	5.3
DLFPS-238/3014	7.0	5.0	4.7	4.3	4.3	4.7	5.0	4.0	4.5
BAR LP 6162	7.0	5.3	4.7	4.0	3.7	4.7	4.7	4.0	4.3
LINN	6.3	4.7	2.0	3.0	3.0	2.3	4.0	3.0	2.9
LSD VALUE	1.5	3.0	1.5	1.3	0.9	1.2	1.1	1.2	0.7
C.V. (%)	6.1	11.8	13.1	11.6	8.6	11.4	8.9	11.1	6.9

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 10.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS									
	GENETIC COLOR	CROWN RUST	PINK SNOW MOLD	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PARAGON 2 GLR (FP2)	6.7	8.7	3.0	4.7	6.3	6.0	6.7	7.0	7.0	6.3
DLFPS-236/3544	6.7	7.7	3.7	4.3	6.0	6.3	6.3	6.3	7.0	6.1
CPN	4.3	7.0	3.0	4.3	6.3	6.3	7.0	6.0	6.0	6.0
PPG-PR 422	6.0	7.3	4.3	5.0	6.3	6.0	6.3	6.3	6.0	6.0
DLFPS-236/3546	6.3	8.0	3.0	4.0	5.7	6.7	6.0	6.7	6.3	5.9
PARADOX GLR (PPG-PR 331)	4.7	7.0	3.7	4.3	6.7	7.0	6.3	5.3	6.0	5.9
O2BS2	6.3	6.7	4.0	4.3	6.3	6.3	5.7	5.7	6.0	5.7
DLFPS-236/3541	4.3	6.0	3.3	4.3	6.7	6.3	6.3	4.7	5.7	5.7
DLFPS-236/3553	5.3	7.7	3.0	3.7	6.0	6.3	6.0	6.3	5.7	5.7
FURLONG (LTP-FCB)	5.7	8.0	4.0	4.7	5.7	5.7	6.0	6.0	6.3	5.7
ASP0117 (A-PR15)	4.7	5.3	3.3	3.7	6.3	6.3	6.0	5.0	6.0	5.6
DLFPS-236/3543	5.3	5.7	4.3	5.0	5.7	5.7	5.7	5.0	6.3	5.6
DLFPS-236/3556	4.3	7.3	3.3	4.0	6.0	6.3	5.7	5.7	6.0	5.6
PPG-PR 424	5.7	7.3	3.3	3.7	5.3	6.0	6.0	6.3	6.3	5.6
PR-6-15	7.7	6.7	4.0	4.7	5.0	5.7	5.7	6.3	6.3	5.6
SILVER SPORT (PST-2CRP)	6.3	6.7	3.7	4.0	5.3	6.0	6.3	5.7	6.0	5.6
UMPQUA	4.3	6.3	3.3	4.0	5.7	6.0	7.0	5.3	5.3	5.6
APR2616	4.7	5.7	4.7	4.7	6.7	6.0	5.3	4.7	5.7	5.5
FASTBALL 3GL (PPG-PR 329)	6.0	7.0	4.3	5.0	5.7	6.3	5.3	5.0	5.7	5.5
PPG-PR 367	6.0	7.3	3.0	3.7	5.3	5.7	5.7	7.0	5.7	5.5
SAGUARO	4.3	4.7	3.0	4.3	6.0	6.0	5.7	5.3	5.7	5.5
SR 4650	5.7	5.3	4.0	5.0	5.7	5.7	5.7	5.3	5.7	5.5
DLFPS-236/3547	5.3	7.3	3.7	4.3	5.3	5.7	5.7	5.3	6.0	5.4
OVERDRIVE 5G	5.3	7.0	3.3	4.0	5.7	5.7	6.0	5.3	5.7	5.4
PPG-PR 423	5.7	7.0	4.3	4.3	5.7	6.0	5.7	4.7	6.0	5.4
PR-5-16	4.0	4.0	3.3	3.7	6.0	6.0	6.7	5.0	5.3	5.4
SPIKE GLS (UF3)	6.0	8.0	4.7	4.3	5.7	5.3	6.0	5.7	5.7	5.4
O21	5.7	6.3	5.3	4.3	6.0	5.7	5.3	5.3	5.3	5.3
APR3060	4.3	5.3	4.3	4.3	5.7	6.0	6.0	4.3	5.3	5.3
ASP0116EXT	7.3	4.3	4.3	5.0	6.0	5.7	5.7	4.0	5.3	5.3
DLFPS-236/3540	5.0	5.0	3.0	4.0	5.7	6.0	5.7	5.0	5.3	5.3
DLFPS-236/3550	4.3	5.0	4.3	4.7	5.7	5.3	5.7	4.3	6.3	5.3
HOMERUN LS (PPG-PR 419)	5.3	7.3	2.3	3.7	5.3	5.7	5.3	6.0	5.7	5.3
LFB-SD-102	5.7	5.3	1.7	3.7	5.3	6.3	6.3	4.7	5.7	5.3
NP-2	5.0	8.0	3.7	4.0	5.7	5.7	5.3	5.7	5.3	5.3
NP-3	5.3	7.0	3.3	3.7	5.3	5.7	6.0	5.3	5.7	5.3
SHIELD (O2BS4)	4.3	6.3	4.3	4.0	5.7	6.0	6.0	5.0	5.0	5.3
SLIDER LS (PPG-PR 241)	5.3	6.3	3.3	4.0	5.7	5.7	5.7	4.7	6.0	5.3
BAR LP 6159	3.3	2.7	3.7	4.3	5.7	5.7	6.0	4.3	5.3	5.2
DLFPS-236/3554	4.7	5.7	3.0	4.0	5.7	5.7	5.7	4.7	5.7	5.2
GO-141	4.3	3.0	3.7	4.7	5.7	6.3	5.3	4.0	5.3	5.2
PL2	6.7	7.3	2.3	3.3	5.3	5.3	5.3	6.0	6.0	5.2
PPG-PR 372	5.7	6.0	3.3	4.0	5.3	5.7	5.7	5.0	5.7	5.2
PST-2FOXY	5.7	6.7	3.7	4.0	5.7	5.7	6.0	4.7	5.0	5.2
PST-2MAY	5.3	6.7	4.0	4.0	6.0	5.3	5.3	4.7	5.7	5.2
SLUGGER 3GL (PPG-PR 343)	6.0	6.7	4.0	3.7	5.7	5.7	5.7	4.7	6.0	5.2
XCELERATOR	5.3	6.7	2.7	3.7	5.3	5.7	5.7	5.3	5.3	5.2

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	CROWN RUST	PINK SNOW MOLD	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
023	4.7	5.3	3.0	3.0	5.0	5.0	5.3	6.0	6.3	5.1
ALLOY (RRT)	5.7	7.0	2.7	3.7	5.7	5.7	5.7	4.7	5.3	5.1
APPLE 3GL (PPG-PR 339)	5.0	6.3	3.0	3.7	6.0	5.7	5.7	4.7	5.0	5.1
DLFPS-236/3538	4.3	3.7	3.7	4.3	5.7	5.3	5.3	4.0	6.0	5.1
LPB-SD-103	4.7	5.7	3.0	3.7	5.7	5.7	5.7	4.7	5.3	5.1
LPB-SD-105	4.0	5.3	2.0	3.3	5.7	5.7	5.3	5.0	5.7	5.1
PPG-PR 360	5.7	6.7	4.0	4.0	5.7	5.7	5.3	4.7	5.3	5.1
PPG-PR 421	5.3	7.0	2.3	3.7	5.7	5.7	5.7	4.7	5.3	5.1
02BS1	7.0	7.3	3.3	3.3	5.0	5.3	5.3	5.3	5.7	5.0
BAR LP 6117	3.7	3.3	4.0	4.7	5.3	5.3	4.7	4.3	5.7	5.0
CS-6	6.3	4.7	3.3	3.7	5.3	5.0	5.3	5.0	5.7	5.0
JR-123	5.0	7.0	3.0	3.7	5.0	5.3	5.7	5.0	5.3	5.0
JR-197	6.3	7.7	3.0	3.3	5.0	5.3	5.0	5.3	6.0	5.0
MRS�-PR16	6.0	5.3	4.0	4.3	5.3	5.3	5.3	4.7	5.0	5.0
SEABISCUIT	4.7	7.0	3.3	3.7	5.7	5.3	5.3	5.0	5.0	5.0
ASP0118GL (A-4G)	5.0	5.0	4.3	4.0	5.3	5.3	5.3	4.3	5.3	4.9
DLFPS-236/3548	5.3	5.3	3.7	3.7	5.0	5.7	5.7	4.7	5.0	4.9
EVOLVE	5.0	4.7	4.0	4.3	5.0	5.0	5.0	4.7	5.3	4.9
GRAND SLAM GLD	4.3	7.5	2.3	3.7	6.0	5.3	4.7	4.7	5.3	4.9
JR-888	3.0	3.7	3.0	3.3	5.0	6.0	5.3	4.0	5.7	4.9
PPG-PR 420	5.0	6.0	2.3	3.3	4.7	5.7	6.0	4.7	5.3	4.9
PST-2A2	5.3	6.3	3.3	4.0	5.0	5.3	5.3	4.7	5.3	4.9
PST-2EGAD	5.0	6.0	3.0	3.3	5.3	5.7	5.3	4.7	5.3	4.9
PPG-PR 385	4.3	5.7	4.0	4.0	4.7	5.3	5.7	4.3	5.0	4.8
PST-2GTD	5.7	6.3	3.0	3.7	5.0	5.7	5.3	4.3	5.0	4.8
PST-2PDA	4.0	6.0	3.3	3.7	5.0	5.3	5.3	4.7	5.0	4.8
GREEN SUPREME+ (AMP-R1)	6.7	5.0	4.3	4.0	5.3	5.0	5.0	4.3	4.7	4.7
DERBY XTREME	5.7	5.3	4.0	3.7	5.0	4.7	5.0	4.3	5.3	4.7
DLFPS-236/3545	6.3	7.7	1.7	3.0	4.7	4.7	4.7	5.3	5.7	4.7
GRAY HAWK (PST-2FIND)	5.0	6.7	2.0	3.0	5.0	5.0	5.0	5.0	5.3	4.7
MAN O WAR	7.3	7.7	2.3	3.0	4.3	5.0	5.0	5.7	5.3	4.7
MENSA	4.3	5.0	2.0	3.0	5.3	5.0	5.0	4.7	5.3	4.7
PHARAOH	6.0	7.0	4.7	4.0	5.0	5.0	4.7	4.7	5.0	4.7
BAR LP 6164	3.7	4.0	3.3	3.3	5.0	5.0	5.0	4.0	5.0	4.6
BAR LP 6233	3.0	4.3	2.7	3.0	5.0	5.3	6.0	3.7	4.7	4.6
BRIGHTSTAR SLT	2.7	2.7	3.7	4.3	5.3	5.7	4.7	3.3	4.3	4.6
GO-142	4.0	3.3	3.0	3.7	5.3	5.0	4.7	4.0	5.0	4.6
GRAY WOLF (PST-2GAL)	5.0	7.0	3.3	3.3	4.3	5.0	5.0	4.7	5.0	4.6
PPG-PR 370	5.0	6.0	3.3	3.7	4.3	4.7	5.0	4.7	5.3	4.6
SIGNET	4.3	5.7	3.3	3.3	5.0	5.0	5.3	4.0	4.7	4.6
HATRICK (BSP-17)	6.7	4.3	3.7	4.0	5.0	4.7	4.7	4.3	4.3	4.5
ASP0218 (A-6D)	6.0	5.0	4.0	4.3	4.7	5.0	4.3	4.0	4.3	4.4
BAR LP 6131	2.7	2.7	2.3	3.3	4.7	4.7	4.7	4.0	5.0	4.4
DLFPS-236/3552	4.0	5.0	3.7	3.7	4.7	4.7	4.7	3.7	5.0	4.4
GO-143	4.7	2.7	3.7	4.0	5.0	4.7	4.0	4.3	4.7	4.4
INTENSE	5.3	7.3	2.7	3.3	4.3	4.7	4.7	4.7	4.7	4.4
KARMA	5.3	5.3	3.0	2.7	4.7	4.7	5.3	4.0	5.3	4.4

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	CROWN RUST	PINK SNOW MOLD	QUALITY RATINGS							MEAN
				MAY	JUN	JUL	AUG	SEP	OCT		
LPB-SD-101	2.3	3.7	2.7	3.0	4.7	5.0	5.0	4.0	4.7	4.4	
PST-2BDT	5.7	6.3	2.7	3.3	4.7	4.7	5.0	4.3	4.3	4.4	
PPG-PR 371	6.3	6.7	3.3	3.0	4.3	4.3	4.7	4.3	4.7	4.2	
BAR LP 6158	3.3	3.0	2.7	3.0	5.0	4.3	4.3	3.7	4.3	4.1	
MRSI-PR15	4.7	4.3	4.0	3.7	4.3	4.3	4.3	3.7	4.3	4.1	
RAD-PR 112	6.7	3.7	3.0	3.3	4.7	4.3	4.0	4.0	4.3	4.1	
DLFPS-236/3542	6.3	6.0	2.0	3.0	4.3	4.3	3.7	4.0	4.7	4.0	
SNX	6.3	4.7	3.7	3.3	4.7	4.0	4.0	3.7	4.3	4.0	
ALLSTAR III	4.7	4.3	3.0	3.3	4.7	4.3	3.7	3.3	4.3	3.9	
FIREBALL (BWH)	8.0	5.0	3.7	3.3	4.3	3.7	4.0	3.7	4.3	3.9	
JR-747	4.7	4.7	1.3	2.7	4.0	4.3	4.0	4.0	4.7	3.9	
PEPPER II (RAD-PR 103)	6.0	3.3	3.7	3.3	4.0	4.0	3.7	4.0	4.7	3.9	
APR2612	6.0	5.7	3.3	2.7	4.0	4.3	3.7	3.3	4.3	3.7	
SAVANT	4.0	4.3	3.3	2.7	4.0	4.3	4.0	3.0	4.3	3.7	
LPB-SD-104	4.7	4.0	1.7	2.0	4.0	4.0	4.0	3.0	4.3	3.6	
BAR LP 6165	1.3	2.0	3.3	3.0	4.0	3.7	4.0	2.7	3.7	3.5	
DLFPS-238/3014	2.3	4.3	3.0	3.0	3.7	3.7	4.0	2.7	3.3	3.4	
TEE-ME-UP (BSP-25)	4.7	2.7	2.7	2.3	3.3	3.3	2.3	3.7	3.7	3.1	
BAR LP 6162	1.3	2.7	3.7	2.7	3.0	3.3	2.3	1.7	2.7	2.6	
LINN	1.0	2.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.2	
LSD VALUE	1.0	1.1	3.6	2.1	2.0	2.0	1.8	1.2	1.4	1.3	
C.V. (%)	13.8	13.4	34.8	23.6	18.6	18.7	18.8	16.2	15.3	15.2	

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 11. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER					QUALITY RATINGS					MEAN
	SPRING	RED THREAD	APR	MAY	JUN	JUL	AUG	SEP	OCT		
DLFPS-236/3538	66.7	5.7	5.0	5.3	5.3	5.0	4.7	5.3	5.7	5.2	
PPG-PR 371	66.7	5.7	5.0	5.0	4.7	5.0	5.3	5.0	5.3	5.0	
FASTBALL 3GL (PPG-PR 329)	51.7	8.7	4.7	4.7	4.7	4.0	4.7	5.0	5.3	4.7	
DLFPS-236/3544	55.0	8.0	4.7	5.3	4.7	4.7	4.3	4.0	4.3	4.6	
JR-123	65.0	8.0	4.7	5.7	4.3	4.3	4.0	4.3	4.7	4.6	
SEABISCUIT	45.0	8.0	4.3	4.3	4.3	4.3	4.3	5.3	5.0	4.6	
PL2	48.3	9.0	4.7	4.7	4.3	4.3	4.3	4.7	4.7	4.5	
APPLE 3GL (PPG-PR 339)	46.7	9.0	4.7	4.7	4.3	4.0	4.3	4.3	4.7	4.4	
PARAGON 2 GLR (FP2)	58.3	7.0	5.0	5.7	4.3	3.7	4.0	4.0	4.3	4.4	
FURLONG (LTP-FCB)	48.3	8.7	4.7	4.7	4.0	4.3	4.3	4.3	4.3	4.4	
PARADOX GLR (PPG-PR 331)	53.3	7.7	4.7	4.7	4.7	4.0	4.3	4.3	4.0	4.4	
PPG-PR 370	46.7	6.0	4.3	4.7	4.0	4.0	4.0	4.7	5.0	4.4	
PPG-PR 422	51.7	9.0	4.7	5.0	4.3	4.3	4.3	4.0	4.0	4.4	
BAR LP 6117	43.3	9.0	4.3	4.0	4.0	4.0	4.7	4.7	4.3	4.3	
BAR LP 6233	51.7	9.0	4.7	4.7	4.0	3.7	4.0	4.3	4.7	4.3	
DLFPS-236/3553	61.7	6.7	5.3	5.7	4.7	4.0	3.7	3.3	3.7	4.3	
HOMERUN LS (PPG-PR 419)	55.0	9.0	4.7	5.3	4.3	4.0	3.7	4.0	4.3	4.3	
PPG-PR 420	48.3	6.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
PPG-PR 421	43.3	7.7	4.0	4.0	3.7	3.7	4.3	5.0	5.3	4.3	
023	41.7	9.0	3.7	5.0	4.7	4.7	3.7	3.7	4.3	4.2	
02BS2	51.7	7.0	4.7	4.7	4.3	3.3	3.7	4.3	4.7	4.2	
ALLOY (RRT)	43.3	7.7	4.3	4.3	4.0	4.0	4.0	4.3	4.7	4.2	
ASP0218 (A-6D)	43.3	9.0	4.0	4.3	4.0	3.7	4.3	4.7	4.3	4.2	
BAR LP 6158	41.7	9.0	4.3	4.7	4.0	3.7	3.7	4.3	4.7	4.2	
DLFPS-236/3547	50.0	7.0	4.0	5.0	4.3	4.7	3.7	4.0	4.0	4.2	
DLFPS-238/3014	43.3	9.0	4.3	4.3	3.7	4.0	4.3	4.3	4.7	4.2	
NP-3	36.7	9.0	3.7	4.0	3.7	4.3	4.3	4.7	4.7	4.2	
SNX	45.0	9.0	4.3	4.3	4.0	4.0	4.0	4.7	4.3	4.2	
021	43.3	9.0	4.0	4.3	4.3	4.3	3.7	4.0	4.0	4.1	
BAR LP 6164	45.0	9.0	4.3	4.7	4.0	4.0	3.7	3.7	4.3	4.1	
DLFPS-236/3548	43.3	9.0	4.0	4.3	4.0	3.7	4.0	4.7	4.3	4.1	
DLFPS-236/3554	50.0	6.3	4.3	4.3	4.0	4.0	3.7	4.3	4.3	4.1	
PPG-PR 360	46.7	8.3	4.7	4.7	3.7	4.0	4.3	3.7	4.0	4.1	
PPG-PR 385	50.0	7.3	4.3	4.3	4.0	3.3	4.0	4.3	4.3	4.1	
PST-2EGAD	46.7	9.0	4.3	4.0	3.7	4.0	4.3	4.3	4.3	4.1	
PST-2MAY	48.3	8.3	4.3	4.7	4.3	4.0	4.0	4.0	3.7	4.1	
APR3060	46.7	9.0	4.0	4.0	3.7	3.7	3.7	4.3	4.7	4.0	
BAR LP 6162	33.3	9.0	3.3	3.7	3.7	3.7	4.3	4.3	4.7	4.0	
DLFPS-236/3545	43.3	9.0	4.3	4.0	4.0	3.7	4.0	3.7	4.0	4.0	
DLFPS-236/3546	46.7	6.7	4.0	4.0	3.7	3.7	3.7	4.0	4.7	4.0	
DLFPS-236/3550	40.0	9.0	4.0	4.0	4.0	4.3	4.0	3.7	4.0	4.0	
DLFPS-236/3552	36.7	9.0	3.7	4.0	3.7	4.0	4.0	4.0	4.7	4.0	
EVOLVE	50.0	8.7	4.3	4.3	4.0	4.0	3.3	4.0	4.3	4.0	
GRAND SLAM GLD	46.7	9.0	4.0	4.3	4.0	3.7	4.0	4.0	4.3	4.0	
GRAY WOLF (PST-2GAL)	45.0	8.3	4.3	4.3	3.7	4.0	3.7	3.7	4.0	4.0	
PPG-PR 372	33.3	9.0	3.3	4.3	3.7	4.0	4.3	4.3	4.3	4.0	
PST-2FOXY	51.7	7.0	4.3	4.3	4.3	4.3	3.7	3.7	3.7	4.0	

TABLE 11. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER					QUALITY RATINGS					MEAN
	SPRING	RED THREAD	APR	MAY	JUN	JUL	AUG	SEP	OCT		
SHIELD (02BS4)	50.0	9.0	4.7	4.7	4.0	3.7	3.3	3.7	4.3	4.0	
SILVER SPORT (PST-2CRP)	46.7	9.0	4.0	4.3	4.0	3.7	4.0	4.0	4.0	4.0	
SPIKE GLS (UF3)	41.7	7.7	4.0	4.0	3.7	3.7	4.0	4.3	4.7	4.0	
DLFPS-236/3556	36.7	9.0	3.7	4.3	4.0	4.0	3.3	3.7	4.0	3.9	
PEPPER II (RAD-PR 103)	41.7	6.0	3.7	3.3	3.3	3.7	4.3	4.3	4.3	3.9	
PHARAOH	36.7	9.0	3.7	4.0	4.0	3.3	3.7	4.3	4.3	3.9	
PPG-PR 423	38.3	9.0	4.0	3.7	3.7	4.0	3.7	4.0	4.3	3.9	
PPG-PR 424	48.3	9.0	4.0	4.0	4.3	4.3	3.0	3.3	4.0	3.9	
PR-5-16	50.0	8.7	4.0	5.0	4.0	3.7	3.0	3.7	4.0	3.9	
PST-2GTD	43.3	9.0	4.0	4.0	3.7	3.7	3.7	4.0	4.3	3.9	
SLUGGER 3GL (PPG-PR 343)	43.3	9.0	4.0	3.7	3.7	3.7	4.3	3.7	4.0	3.9	
XCELERATOR	36.7	9.0	3.7	3.7	4.0	3.7	3.7	4.0	4.3	3.9	
APR2612	33.3	9.0	3.3	3.3	3.7	3.3	4.0	4.3	4.7	3.8	
BAR LP 6131	40.0	9.0	3.7	3.7	3.7	3.7	3.7	3.7	4.3	3.8	
BAR LP 6159	43.3	9.0	3.3	3.7	4.0	3.7	3.3	4.3	4.3	3.8	
BAR LP 6165	40.0	9.0	4.0	4.3	3.7	3.3	4.0	4.0	3.8	3.8	
BRIGHTSTAR SLT	41.7	9.0	4.0	4.3	4.0	3.7	3.7	3.3	3.3	3.8	
HATRICK (BSP-17)	40.0	8.0	3.7	4.0	3.7	3.0	4.3	4.0	3.7	3.8	
CPN	36.7	9.0	3.7	4.3	4.0	3.7	3.0	3.7	4.0	3.8	
DLFPS-236/3542	43.3	9.0	4.0	4.7	3.7	3.7	3.7	3.7	3.3	3.8	
GRAY HAWK (PST-2FIND)	50.0	9.0	4.3	4.3	4.0	3.7	3.3	3.3	3.3	3.8	
JR-197	46.7	7.3	4.0	4.0	4.0	3.3	3.7	3.7	3.7	3.8	
GREEN SUPREME+ (AMP-R1)	33.3	9.0	3.3	3.3	3.3	3.3	4.0	4.0	4.3	3.7	
APR2616	36.7	9.0	3.7	3.3	3.7	3.3	4.0	4.0	3.7	3.7	
GO-143	36.7	8.7	4.0	3.7	3.7	3.3	3.7	3.7	4.0	3.7	
INTENSE	36.7	9.0	3.7	4.3	3.3	3.0	3.7	3.7	4.0	3.7	
LINN	40.0	9.0	3.7	4.0	3.7	3.7	3.3	3.7	4.0	3.7	
NP-2	46.7	8.0	4.3	3.7	3.7	3.3	3.7	3.7	3.7	3.7	
PST-2BDT	38.3	9.0	3.3	4.0	4.0	4.0	3.3	3.7	3.3	3.7	
ASP0117 (A-PR15)	43.3	8.7	4.0	4.0	3.7	3.0	3.3	3.3	3.7	3.6	
DLFPS-236/3541	36.7	9.0	3.7	4.0	3.3	3.3	4.0	3.3	3.7	3.6	
DLFPS-236/3543	41.7	9.0	4.0	3.7	3.7	3.0	3.3	3.7	3.7	3.6	
KARMA	40.0	9.0	4.0	4.3	3.7	3.7	3.3	3.0	3.0	3.6	
PPG-PR 367	45.0	9.0	4.0	4.0	3.7	3.3	2.7	3.7	3.7	3.6	
02BS1	40.0	9.0	4.0	4.0	3.7	3.7	3.0	3.0	3.3	3.5	
ASP0118GL (A-4G)	33.3	9.0	3.3	3.3	3.0	2.7	4.0	4.0	4.0	3.5	
FIREBALL (BWH)	28.3	7.3	3.0	2.7	3.3	3.3	4.3	4.0	4.0	3.5	
OVERDRIVE 5G	40.0	9.0	4.0	3.7	4.0	3.7	3.0	3.0	3.3	3.5	
SLIDER LS (PPG-PR 241)	33.3	9.0	3.3	3.7	3.0	3.0	3.3	4.0	4.3	3.5	
UMPQUA	36.7	9.0	3.7	3.7	3.3	3.0	3.7	3.7	3.7	3.5	
ALLSTAR III	38.3	7.3	3.7	4.0	3.3	2.7	3.3	3.3	3.7	3.4	
JR-888	43.3	8.3	3.7	3.7	3.3	3.0	3.7	3.3	3.3	3.4	
SIGNET	40.0	9.0	3.3	3.3	3.7	3.3	3.7	3.0	3.3	3.4	
CS-6	31.7	9.0	3.3	3.3	3.3	3.0	3.7	3.3	3.3	3.3	
DLFPS-236/3540	36.7	9.0	3.7	3.7	3.0	3.0	3.0	3.7	3.3	3.3	
MRSL-PR15	36.7	9.0	3.3	3.3	3.0	2.7	3.3	3.7	3.7	3.3	
PR-6-15	26.7	9.0	2.7	3.0	3.3	3.3	3.7	4.0	3.3	3.3	

TABLE 11. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER		QUALITY RATINGS							
	SPRING	RED THREAD	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PST-2A2	35.0	9.0	3.7	4.0	3.3	3.3	2.7	3.0	3.0	3.3
PST-2PDA	46.7	9.0	4.3	4.7	3.7	3.0	2.3	2.7	2.7	3.3
RAD-PR 112	38.3	9.0	3.7	3.7	3.3	2.7	2.7	3.3	3.7	3.3
SAGUARO	36.7	7.7	3.7	3.7	3.7	3.0	3.0	3.3	3.0	3.3
SR 4650	36.7	9.0	3.7	3.7	3.3	3.3	3.3	2.7	3.3	3.3
DERBY XTREME	36.7	8.3	3.7	3.7	3.3	3.3	3.0	2.3	3.0	3.2
GO-142	33.3	9.0	3.7	3.7	3.3	2.7	3.0	3.0	3.0	3.2
LPB-SD-105	26.7	7.0	2.7	3.0	3.0	3.3	4.0	3.0	3.3	3.2
MRSL-PR16	30.0	9.0	3.0	3.0	3.0	2.7	3.3	3.7	4.0	3.2
MENSA	31.7	9.0	3.3	3.0	3.0	3.3	3.3	3.0	2.7	3.1
ASP0116EXT	26.7	9.0	2.7	3.0	3.3	3.0	3.0	3.0	3.0	3.0
MAN O WAR	33.3	9.0	3.3	3.7	3.3	3.0	2.7	2.3	2.3	3.0
SAVANT	33.3	9.0	3.3	3.0	3.0	2.7	3.0	3.0	3.3	3.0
TEE-ME-UP (BSP-25)	30.0	9.0	3.0	3.0	2.7	2.7	3.0	3.0	3.0	2.9
GO-141	35.0	9.0	3.7	3.3	3.3	2.3	2.3	2.3	2.3	2.8
LPB-SD-102	26.7	9.0	2.7	3.0	3.0	3.0	2.7	2.3	2.3	2.7
JR-747	20.0	9.0	2.3	2.3	2.7	2.3	3.3	2.7	2.7	2.6
LPB-SD-101	23.3	9.0	2.3	3.0	3.0	2.3	2.3	2.3	2.0	2.5
LPB-SD-103	20.0	9.0	2.3	3.0	2.7	2.7	2.3	2.0	2.0	2.4
LPB-SD-104	25.0	9.0	2.3	3.0	3.0	2.3	2.0	1.7	1.7	2.3
LSD VALUE	24.9	3.5	1.5	1.7	1.5	1.5	2.1	1.9	2.0	1.3
C.V. (%)	27.5	15.0	19.2	20.4	17.7	20.2	22.6	23.5	23.8	16.7

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

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

TABLE 12.

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT FARGO, ND 1/
2018 DATA
PERCENT LIVING GROUND COVER IN LOCATIONS 2/

NAME	PERCENT GROUND COVER			MEAN
	SPRING	SUMMER	FALL	
LPB-SD-105	33.3	60.0	75.0	56.1
PPG-PR 367	53.3	55.0	60.0	56.1
GO-143	48.3	55.0	58.3	53.9
PPG-PR 423	53.3	53.3	55.0	53.9
GREEN SUPREME+ (AMP-R1)	48.3	51.7	53.3	51.1
PST-2GTD	50.0	51.7	51.7	51.1
PPG-PR 371	43.3	48.3	51.7	47.8
TEE-ME-UP (BSP-25)	31.7	45.0	61.7	46.1
RAD-PR 112	45.0	45.0	46.7	45.6
BAR LP 6165	43.3	43.3	45.0	43.9
SNX	41.7	43.3	46.7	43.9
PARADOX GLR (PPG-PR 331)	40.0	43.3	46.7	43.3
SEABISCUIT	43.3	43.3	43.3	43.3
DLFPS-236/3538	40.0	43.3	45.0	42.8
021	26.7	43.3	56.7	42.2
APR3060	35.0	41.7	48.3	41.7
PPG-PR 422	40.0	40.0	45.0	41.7
PST-2FOXY	40.0	40.0	43.3	41.1
UMPQUA	40.0	40.0	41.7	40.6
EVOLVE	33.3	38.3	46.7	39.4
SLIDER LS (PPG-PR 241)	36.7	40.0	41.7	39.4
PHARAOH	38.3	38.3	38.3	38.3
02BS2	35.0	36.7	41.7	37.8
DLFPS-236/3541	33.3	36.7	41.7	37.2
PPG-PR 372	31.7	36.7	43.3	37.2
DLFPS-236/3553	35.0	35.0	40.0	36.7
SPIKE GLS (UF3)	30.0	35.0	43.3	36.1
NP-2	31.7	35.0	40.0	35.6
XCELERATOR	30.0	35.0	41.7	35.6
CS-6	30.0	35.0	40.0	35.0
PST-2A2	33.3	35.0	35.0	34.4
BAR LP 6164	33.3	33.3	35.0	33.9
GO-141	28.3	33.3	36.7	32.8
APR2612	26.7	31.7	38.3	32.2
HOMERUN LS (PPG-PR 419)	28.3	31.7	35.0	31.7
ALLSTAR III	30.0	31.7	31.7	31.1
PARAGON 2 GLR (FP2)	26.7	31.7	35.0	31.1
LPB-SD-103	23.3	33.3	36.7	31.1
DLFPS-236/3554	30.0	30.0	31.7	30.6
SILVER SPORT (PST-2CRP)	30.0	30.0	31.7	30.6
BAR LP 6233	31.7	21.7	36.7	30.0
DLFPS-236/3544	25.0	30.0	35.0	30.0
DLFPS-236/3552	25.0	30.0	33.3	29.4
PST-2BDT	28.3	28.3	31.7	29.4
DLFPS-236/3550	23.3	30.0	33.3	28.9
JR-123	23.3	30.0	33.3	28.9
HATRICK (BSP-17)	16.7	28.3	40.0	28.3

TABLE 12.
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT FARGO, ND 1/
2018 DATA
PERCENT LIVING GROUND COVER IN LOCATIONS 2/

NAME	PERCENT GROUND COVER			MEAN
	SPRING	SUMMER	FALL	
FIREBALL (BWH)	21.7	23.3	40.0	28.3
DLFPS-236/3556	21.7	26.7	36.7	28.3
PST-2PDA	26.7	26.7	31.7	28.3
PPG-PR 420	26.7	26.7	30.0	27.8
SHIELD (02BS4)	23.3	26.7	33.3	27.8
ASP0117 (A-PR15)	23.3	28.3	30.0	27.2
ASP0218 (A-6D)	23.3	26.7	31.7	27.2
PPG-PR 360	23.3	26.7	31.7	27.2
PPG-PR 421	26.7	26.7	28.3	27.2
PPG-PR 370	25.0	25.0	30.0	26.7
DLFPS-236/3547	21.7	25.0	31.7	26.1
PR-6-15	20.0	25.0	31.7	25.6
DLFPS-236/3546	21.7	26.7	26.7	25.0
PST-2MAY	25.0	25.0	25.0	25.0
ALLOY (RRT)	21.7	23.3	26.7	23.9
ASP0118GL (A-4G)	18.3	23.3	28.3	23.3
GO-142	16.7	23.3	30.0	23.3
NP-3	18.3	21.7	28.3	22.8
PST-2EGAD	21.7	21.7	23.3	22.2
PR-5-16	21.7	21.7	21.7	21.7
APPLE 3GL (PPG-PR 339)	18.3	20.0	25.0	21.1
APR2616	18.3	20.0	25.0	21.1
DLFPS-236/3548	18.3	21.7	23.3	21.1
PPG-PR 385	18.3	21.7	23.3	21.1
GRAY HAWK (PST-2FIND)	20.0	20.0	21.7	20.6
JR-197	20.0	20.0	21.7	20.6
LPB-SD-102	13.3	16.7	30.0	20.0
DERBY XTREME	15.0	20.0	23.3	19.4
BAR LP 6162	18.3	18.3	18.3	18.3
GRAY WOLF (PST-2GAL)	18.3	18.3	18.3	18.3
BAR LP 6158	16.7	16.7	18.3	17.2
SLUGGER 3GL (PPG-PR 343)	15.0	16.7	20.0	17.2
BRIGHTSTAR SLT	15.0	15.0	16.7	15.6
02BS1	13.3	13.3	15.0	13.9
PEPPER II (RAD-PR 103)	11.7	13.3	15.0	13.3
PL2	13.3	13.3	13.3	13.3
FASTBALL 3GL (PPG-PR 329)	11.7	11.7	15.0	12.8
MRSL-PR15	11.7	11.7	15.0	12.8
023	11.7	11.7	13.3	12.2
DLFPS-236/3543	10.0	13.3	13.3	12.2
DLFPS-236/3545	10.0	13.3	13.3	12.2
JR-888	10.0	11.7	15.0	12.2
BAR LP 6159	11.7	11.7	11.7	11.7
CPN	11.7	11.7	11.7	11.7
OVERDRIVE 5G	11.7	11.7	11.7	11.7
DLFPS-236/3540	8.3	10.0	15.0	11.1
ASP0116EXT	10.0	10.0	11.7	10.6

TABLE 12.
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT FARGO, ND 1/
2018 DATA
PERCENT LIVING GROUND COVER IN LOCATIONS 2/

NAME	PERCENT GROUND COVER			MEAN
	SPRING	SUMMER	FALL	
DLFPS-238/3014	10.0	10.0	11.7	10.6
SIGNET	10.0	10.0	11.7	10.6
BAR LP 6131	10.0	10.0	10.0	10.0
GRAND SLAM GLD	8.3	8.3	8.3	8.3
MAN O WAR	6.7	6.7	6.7	6.7
PPG-PR 424	6.7	6.7	6.7	6.7
SAGUARO	5.0	6.7	8.3	6.7
SR 4650	6.7	6.7	6.7	6.7
DLFPS-236/3542	5.0	5.0	8.3	6.1
MENSA	5.0	6.7	6.7	6.1
LPB-SD-104	5.0	5.0	6.7	5.6
JR-747	5.0	5.0	5.0	5.0
KARMA	5.0	5.0	5.0	5.0
INTENSE	3.3	3.3	5.0	3.9
LINN	3.3	3.3	3.3	3.3
FURLONG (LTP-FCB)	1.7	1.7	1.7	1.7
LPB-SD-101	1.7	1.7	1.7	1.7
SAVANT	1.7	1.7	1.7	1.7
BAR LP 6117	0.0	0.0	0.0	0.0
MRS-L-PR16	0.0	0.0	0.0	0.0
LSD VALUE	5.1	6.1	5.9	5.1
C.V. (%)	15.8	17.1	14.7	14.2

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 AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS							
			APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
FASTBALL 3GL (PPG-PR 329)	5.0	5.3	5.0	4.7	4.3	6.0	6.0	7.0	6.3	5.6
APR2616	5.0	4.3	4.3	4.3	4.0	6.7	5.3	7.0	6.7	5.5
HOMERUN LS (PPG-PR 419)	4.7	4.3	4.3	4.7	4.3	6.7	5.0	7.0	6.3	5.5
JR-197	5.0	4.0	4.3	4.0	4.7	6.7	5.0	7.0	6.7	5.5
FURLONG (LTP-FCB)	4.0	3.7	4.0	4.3	4.0	6.0	6.0	7.0	6.3	5.4
DLFPS-236/3540	5.0	4.7	4.0	4.3	4.3	5.7	5.7	7.0	6.3	5.3
DLFPS-236/3544	5.0	4.0	4.7	4.3	4.0	5.7	4.7	7.0	6.7	5.3
NP-2	4.7	4.7	4.7	4.3	4.0	6.3	5.0	7.0	6.0	5.3
OVERDRIVE 5G	5.0	4.3	4.0	4.7	3.7	6.3	5.0	7.0	6.7	5.3
PR-6-15	5.0	5.0	4.0	4.3	4.0	6.0	5.7	7.0	6.3	5.3
PST-2BDT	5.0	4.3	4.0	4.0	4.3	6.3	5.3	7.0	6.3	5.3
SLIDER LS (PPG-PR 241)	5.0	4.7	4.3	4.3	3.7	6.0	5.7	7.0	6.0	5.3
023	4.3	4.0	4.0	4.3	4.0	6.3	4.3	7.0	6.7	5.2
DLFPS-236/3545	4.7	4.7	4.0	3.7	3.7	6.0	5.3	7.0	7.0	5.2
LPB-SD-102	5.0	5.0	4.3	4.3	3.7	5.3	4.7	7.0	7.0	5.2
PPG-PR 424	4.7	4.3	4.3	4.0	4.3	5.3	5.3	7.0	6.3	5.2
BAR LP 6233	4.0	4.3	4.0	4.0	4.0	6.0	5.0	6.7	6.0	5.1
DLFPS-236/3543	4.3	4.0	4.0	3.3	3.0	6.0	5.7	7.0	6.7	5.1
DLFPS-236/3552	4.7	3.7	3.7	3.3	3.7	6.0	5.7	7.0	6.3	5.1
PARAGON 2 GLR (FP2)	5.0	4.3	4.3	3.3	3.3	5.7	5.3	7.0	6.7	5.1
GRAY HAWK (PST-2FIND)	4.7	4.3	4.3	4.0	4.0	5.3	5.0	7.0	6.3	5.1
GRAY WOLF (PST-2GAL)	4.7	4.0	4.0	3.7	4.0	5.7	5.0	7.0	6.7	5.1
PPG-PR 371	5.0	3.7	3.3	3.7	3.7	6.3	5.3	7.0	6.3	5.1
PPG-PR 421	5.3	4.3	3.7	4.0	3.7	6.3	5.0	7.0	6.3	5.1
PST-2EGAD	5.0	4.0	3.7	3.0	3.3	6.3	6.0	7.0	6.3	5.1
PST-2GTD	5.0	4.0	4.0	4.0	3.7	5.7	5.3	7.0	6.3	5.1
SAGUARO	4.7	4.3	3.7	4.3	4.3	6.3	5.0	6.7	5.7	5.1
CPN	4.3	3.7	3.7	3.3	3.7	6.3	5.0	7.0	6.3	5.0
DLFPS-236/3556	4.0	4.3	3.7	4.0	3.3	5.7	4.3	7.0	6.7	5.0
EVOLVE	4.3	4.7	3.7	3.7	3.7	6.3	4.0	7.0	6.7	5.0
PPG-PR 420	4.7	3.3	3.3	3.3	3.3	6.0	5.3	7.0	6.3	5.0
PPG-PR 422	5.0	4.3	3.7	3.7	3.7	5.7	5.3	7.0	6.3	5.0
PPG-PR 423	4.7	3.7	3.7	3.7	3.3	5.0	5.3	7.0	6.7	5.0
SAVANT	4.0	4.7	4.0	3.7	3.7	5.7	4.7	6.7	6.3	5.0
ALLOY (RRT)	5.0	4.0	4.0	3.7	3.0	5.0	5.0	7.0	6.3	4.9
BAR LP 6164	5.0	3.7	3.3	3.3	3.7	5.3	5.3	7.0	6.3	4.9
PPG-PR 372	5.0	3.3	3.7	3.0	3.0	5.7	5.3	7.0	6.3	4.9
SHIELD (02BS4)	5.0	4.3	4.0	3.0	3.7	6.0	5.0	6.7	6.0	4.9
SILVER SPORT (PST-2CRP)	5.0	3.3	3.7	3.3	3.3	5.7	5.3	7.0	6.0	4.9
SR 4650	4.3	3.7	4.0	3.0	3.3	5.3	5.0	7.0	6.7	4.9
02BS1	5.0	3.7	3.7	3.0	3.0	5.7	5.3	6.7	6.3	4.8
APR3060	4.7	4.0	3.7	3.7	3.7	5.3	4.7	6.7	6.0	4.8
DLFPS-236/3541	4.7	3.7	3.7	3.3	3.7	5.7	4.7	6.3	6.0	4.8
DLFPS-236/3550	4.7	3.7	3.0	3.3	3.0	5.3	5.3	7.0	6.3	4.8
DLFPS-236/3554	5.0	4.0	3.0	3.0	3.3	5.3	4.7	7.3	6.7	4.8
JR-747	4.3	4.3	3.3	3.7	3.3	5.0	4.7	7.0	6.3	4.8
KARMA	4.0	4.0	3.7	3.7	3.7	4.7	4.3	7.0	6.7	4.8

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
 2018 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	
PL2	5.0	4.0	3.7	3.0	3.7	4.7	4.7	7.0	6.7	4.8
PPG-PR 360	4.7	3.3	3.3	3.0	3.0	5.0	5.7	7.0	6.3	4.8
PR-5-16	4.3	3.7	3.3	3.0	3.3	6.0	4.7	7.0	6.0	4.8
PST-2FOXY	5.0	3.3	3.3	3.0	3.3	5.0	5.3	7.0	6.7	4.8
SIGNET	4.7	4.3	4.0	3.7	3.7	5.0	4.3	6.7	6.3	4.8
02BS2	4.7	4.3	3.7	3.3	3.0	4.7	5.0	7.0	6.3	4.7
ASP0117 (A-PR15)	5.0	4.0	3.7	3.3	3.3	4.7	5.3	6.7	5.7	4.7
BAR LP 6131	4.3	3.3	3.3	3.3	3.0	5.7	4.7	6.7	6.0	4.7
BAR LP 6165	4.0	4.3	3.7	3.3	4.3	6.7	3.7	6.0	5.3	4.7
DLFPS-236/3547	5.0	3.7	3.3	2.7	3.0	5.0	5.3	7.0	6.7	4.7
DLFPS-236/3553	4.3	3.3	3.7	2.7	3.3	5.0	4.7	7.0	6.3	4.7
GRAND SLAM GLD	4.3	3.3	3.0	3.3	3.3	5.0	4.3	7.0	7.0	4.7
INTENSE	5.0	3.3	3.3	3.0	3.0	5.3	4.7	7.0	6.7	4.7
MENSA	4.3	4.0	3.7	3.0	3.3	5.0	4.7	7.0	6.3	4.7
PHARAOH	4.3	4.0	3.3	3.0	3.3	5.7	4.3	7.0	6.0	4.7
PST-2PDA	4.7	3.7	4.0	3.3	3.3	5.7	4.0	6.7	6.0	4.7
SEABISCUIT	5.0	3.3	3.0	2.7	3.0	5.0	5.3	7.0	6.7	4.7
UMPQUA	4.3	3.7	3.3	3.0	3.0	6.3	4.7	6.7	6.0	4.7
XCELERATOR	4.3	4.0	3.3	3.3	3.3	5.0	4.7	6.7	6.3	4.7
BAR LP 6159	4.3	3.0	3.0	3.0	3.0	5.0	4.0	7.0	7.0	4.6
DERBY XTREME	5.0	3.7	3.3	3.3	3.3	5.3	3.7	7.0	6.3	4.6
DLFPS-236/3542	4.3	4.0	4.0	3.0	3.0	4.7	4.3	7.0	6.0	4.6
JR-888	4.0	4.3	4.0	3.0	3.3	5.7	4.3	6.3	5.7	4.6
LPB-SD-101	4.3	4.3	4.0	3.3	3.3	4.3	4.0	6.7	6.3	4.6
LPB-SD-103	5.0	4.3	4.0	3.0	3.0	5.3	4.0	6.3	6.3	4.6
PARADOX GLR (PPG-PR 331)	5.0	3.3	3.0	2.7	3.0	5.0	5.0	7.0	6.3	4.6
SLUGGER 3GL (PPG-PR 343)	4.7	3.0	2.7	3.0	3.0	5.0	5.0	7.0	6.3	4.6
ASP0118GL (A-4G)	5.0	3.3	3.3	3.0	3.3	4.7	4.7	6.7	6.0	4.5
BAR LP 6117	5.0	3.0	2.7	2.7	3.0	4.7	5.0	7.0	6.3	4.5
DLFPS-236/3546	4.7	4.0	3.3	3.3	3.0	4.7	4.3	7.0	6.0	4.5
GO-141	5.0	3.7	3.3	3.0	2.7	4.3	4.7	7.0	6.3	4.5
LPB-SD-105	4.0	4.3	4.0	3.3	3.3	4.7	4.3	6.3	5.7	4.5
PPG-PR 367	4.3	4.0	3.3	2.7	2.7	5.0	4.7	7.0	6.3	4.5
PST-2MAY	4.7	3.3	3.0	3.0	3.3	4.3	4.3	7.0	6.7	4.5
021	4.0	3.3	3.0	3.0	3.0	4.3	4.3	6.7	6.3	4.4
APR2612	5.0	3.3	3.0	2.3	2.7	4.3	4.7	7.0	7.0	4.4
BRIGHTSTAR SLT	5.0	3.7	3.0	3.3	3.0	4.7	4.0	6.7	6.3	4.4
DLFPS-236/3538	4.3	3.3	3.3	3.0	3.0	5.0	4.3	6.3	5.7	4.4
DLFPS-236/3548	4.7	3.0	3.0	2.7	2.7	4.3	5.0	7.0	6.3	4.4
GO-143	5.0	3.7	3.3	2.7	3.3	4.3	4.0	7.0	6.0	4.4
NP-3	4.3	3.3	3.0	3.0	2.7	4.7	4.3	7.0	6.3	4.4
PPG-PR 370	5.0	3.3	3.3	2.7	3.0	5.0	4.7	6.7	5.7	4.4
APPLE 3GL (PPG-PR 339)	4.7	3.0	3.0	2.7	3.0	4.7	4.7	6.7	5.7	4.3
ASP0218 (A-6D)	5.0	3.0	3.0	3.0	2.7	4.3	4.0	7.0	6.3	4.3
GO-142	4.7	3.3	3.0	2.7	2.7	4.0	4.3	7.0	6.3	4.3
PPG-PR 385	4.7	3.7	3.0	3.3	3.0	5.0	4.0	6.3	5.7	4.3
PST-2A2	4.7	3.7	3.7	2.7	3.0	4.3	4.7	6.3	5.7	4.3

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
 2018 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	
SPIKE GLS (UF3)	5.0	3.3	3.0	2.7	2.7	4.3	4.7	6.7	6.0	4.3
ALLSTAR III	4.7	3.3	3.0	2.0	2.7	4.3	4.0	7.0	6.7	4.2
MRSL-PR15	5.0	3.3	3.0	2.7	2.7	3.7	4.7	6.7	6.3	4.2
MRSL-PR16	5.3	3.3	3.0	2.3	3.0	4.3	4.7	6.7	5.7	4.2
BAR LP 6158	4.3	3.0	3.0	2.7	2.3	3.7	4.3	6.7	6.3	4.1
FIREBALL (BWH)	5.0	3.0	2.3	2.7	2.3	4.3	4.3	6.7	6.3	4.1
JR-123	5.0	3.3	2.7	2.7	2.7	4.3	4.3	6.3	6.0	4.1
LPB-SD-104	4.7	4.3	3.0	3.0	3.0	4.7	4.0	6.0	5.3	4.1
ASP0116EXT	5.0	3.3	2.7	2.3	3.0	3.3	3.7	6.7	6.0	4.0
MAN O WAR	4.7	3.0	3.3	2.3	2.7	3.3	3.7	6.7	6.3	4.0
SNX	5.0	3.3	2.7	2.3	3.0	3.3	4.0	6.7	6.3	4.0
CS-6	5.0	3.0	2.3	2.3	2.7	3.3	3.3	6.3	6.0	3.8
DLFPS-238/3014	4.7	3.0	2.7	2.0	2.7	3.7	4.0	6.0	5.3	3.8
HATRICK (BSP-17)	5.0	3.0	2.3	2.0	2.3	3.3	3.3	6.3	6.0	3.7
PEPPER II (RAD-PR 103)	5.0	3.0	2.3	2.3	2.7	3.3	3.7	5.7	5.7	3.7
RAD-PR 112	5.0	3.0	2.3	2.3	2.7	3.0	4.0	6.3	5.3	3.7
BAR LP 6162	5.0	3.0	2.3	2.0	2.3	3.0	3.3	6.0	5.3	3.5
GREEN SUPREME+ (AMP-R1)	5.0	3.0	2.0	2.0	2.0	3.0	3.0	6.0	5.7	3.4
TEE-ME-UP (BSP-25)	5.0	3.0	2.0	2.0	2.3	3.3	3.3	6.0	5.0	3.4
LINN	3.0	3.3	3.0	2.0	3.0	3.0	3.0	4.7	4.7	3.3
LSD VALUE	0.7	0.9	1.0	1.1	1.1	1.5	1.7	0.7	2.0	0.7
C.V. (%)	8.4	14.5	16.5	19.8	17.7	17.3	17.6	5.6	10.4	9.0

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

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

TABLE 14.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	QUALITY RATINGS								
	COLOR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
FURLONG (LTP-FCB)	7.0	6.7	6.7	7.3	7.7	6.0	5.7	5.7	7.0	6.6
DLFPS-236/3541	7.0	6.3	5.7	6.7	7.0	6.0	6.7	6.3	6.3	6.4
ALLOY (RRT)	7.0	6.7	6.0	6.3	7.0	5.3	5.7	5.7	6.7	6.2
DLFPS-236/3546	6.7	6.3	6.0	6.7	6.7	4.7	5.3	5.7	6.3	6.0
PPG-PR 423	6.7	6.0	6.0	7.7	6.3	4.7	6.0	5.3	6.3	6.0
SLUGGER 3GL (PPG-PR 343)	5.7	7.0	6.3	7.0	6.7	4.3	6.0	5.3	5.3	6.0
02BS1	7.0	6.7	6.3	5.3	6.7	5.0	5.3	5.0	7.0	5.9
APPLE 3GL (PPG-PR 339)	6.0	6.3	5.7	6.0	5.7	5.0	6.7	5.0	6.7	5.9
DLFPS-236/3543	6.3	5.0	6.0	6.3	7.0	4.7	6.7	5.7	6.0	5.9
DLFPS-236/3547	6.7	5.3	5.7	7.0	6.7	4.3	5.3	6.0	7.0	5.9
INTENSE	7.0	6.7	6.7	6.0	6.7	4.3	6.0	5.3	5.7	5.9
NP-2	6.0	6.7	6.3	6.7	7.0	4.3	5.0	5.0	6.0	5.9
PL2	5.7	6.3	6.3	5.3	6.0	6.0	5.7	6.0	5.7	5.9
PPG-PR 372	6.3	5.7	5.7	5.3	6.7	5.3	7.3	5.3	5.7	5.9
PPG-PR 421	6.0	6.3	6.0	7.3	7.3	5.0	5.3	4.7	5.3	5.9
SIGNET	5.7	6.0	5.7	6.3	6.7	5.3	5.3	5.3	6.3	5.9
023	5.0	6.7	6.3	6.0	5.7	5.0	4.7	5.7	6.3	5.8
02BS2	5.0	5.3	6.3	6.0	6.0	5.3	5.3	5.7	6.7	5.8
APR2616	5.0	5.7	5.7	6.0	6.3	6.0	7.3	4.7	4.3	5.8
DLFPS-236/3554	6.3	5.7	4.7	6.0	6.7	6.0	6.3	5.3	6.0	5.8
PPG-PR 360	6.3	6.3	6.7	5.3	7.0	4.3	6.0	4.7	6.0	5.8
PPG-PR 371	5.7	6.0	5.7	5.7	6.7	5.7	7.0	5.3	4.7	5.8
PR-6-15	7.0	5.3	5.7	5.7	6.7	5.7	6.3	5.0	6.0	5.8
CPN	6.3	7.0	5.7	6.0	7.0	5.3	5.0	4.3	5.3	5.7
DLFPS-236/3542	6.0	5.7	6.0	5.7	6.7	5.0	6.3	4.7	5.3	5.7
SILVER SPORT (PST-2CRP)	6.7	6.3	5.3	6.7	6.0	5.0	5.7	4.7	6.0	5.7
DLFPS-236/3552	7.0	5.3	5.7	6.0	6.0	5.7	5.7	5.0	5.7	5.6
PARAGON 2 GLR (FP2)	7.0	6.7	6.0	5.0	5.3	5.7	6.3	4.7	5.3	5.6
GRAY HAWK (PST-2FIND)	5.7	6.7	6.3	5.3	6.3	4.7	5.3	4.7	5.7	5.6
PST-2MAY	6.0	6.3	5.3	5.3	5.7	5.0	6.0	4.7	6.3	5.6
SEABISCUIT	6.3	5.3	4.7	5.7	6.0	5.7	6.3	5.0	6.3	5.6
SPIKE GLS (UF3)	5.7	6.3	6.0	6.3	6.7	4.3	5.0	5.0	5.3	5.6
021	5.0	4.7	6.0	5.3	5.3	5.0	5.7	6.3	6.0	5.5
DLFPS-236/3540	6.3	6.0	5.3	5.7	6.0	5.0	6.3	5.0	5.0	5.5
DLFPS-236/3544	6.3	6.3	5.7	5.3	6.0	4.7	5.3	5.0	5.7	5.5
DLFPS-236/3545	7.0	6.3	6.3	5.7	6.0	4.0	4.7	4.7	6.7	5.5
DLFPS-236/3548	5.3	5.0	5.3	7.0	6.0	5.3	5.3	4.7	5.3	5.5
FASTBALL 3GL (PPG-PR 329)	6.7	6.3	5.0	6.0	6.0	4.7	5.7	4.7	6.0	5.5
GRAND SLAM GLD	7.0	6.7	5.7	6.3	5.0	4.0	4.7	5.3	6.3	5.5
GRAY WOLF (PST-2GAL)	6.3	6.7	5.7	6.0	5.7	4.3	5.3	4.7	6.0	5.5
JR-197	6.3	6.3	6.3	6.7	6.0	4.0	4.7	4.7	5.7	5.5
PST-2A2	6.7	6.0	6.0	5.0	5.3	4.0	5.7	5.7	6.3	5.5
SHIELD (02BS4)	5.3	6.0	5.7	6.3	6.0	5.3	5.3	4.7	5.0	5.5
PPG-PR 367	6.3	5.7	5.7	5.7	6.0	4.0	6.0	4.0	6.3	5.4
PPG-PR 370	6.3	6.0	5.3	6.0	6.3	4.3	5.3	4.3	5.3	5.4
PPG-PR 385	4.7	5.7	5.7	6.0	6.0	4.7	6.3	4.0	4.7	5.4
PPG-PR 420	5.3	5.3	5.0	6.7	6.7	4.0	5.3	5.0	5.0	5.4

TABLE 14. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
 2018 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	
PPG-PR 424	5.0	5.3	6.7	5.7	6.3	3.7	5.0	4.3	6.3	5.4
PST-2BDT	5.7	6.7	6.0	5.7	5.7	5.3	4.7	4.3	5.0	5.4
PST-2GTD	6.3	5.7	4.7	5.7	5.7	5.0	5.3	5.3	6.0	5.4
APR3060	4.0	5.0	5.3	5.3	5.7	5.3	6.3	5.0	4.3	5.3
DLFPS-236/3553	5.7	5.7	5.0	6.0	5.3	4.0	4.7	5.7	6.3	5.3
OVERDRIVE 5G	7.0	5.3	5.3	5.7	6.3	4.0	5.0	4.3	6.0	5.3
PST-2FOXY	7.3	5.7	5.3	5.3	5.3	5.3	5.0	5.3	5.0	5.3
SLIDER LS (PPG-PR 241)	6.0	6.0	6.0	6.3	5.7	4.0	5.3	4.0	5.3	5.3
ASP0118GL (A-4G)	6.7	5.7	6.0	5.3	5.3	4.7	6.0	4.0	4.7	5.2
DLFPS-236/3556	5.0	5.3	5.7	5.3	5.3	3.3	5.0	5.3	6.0	5.2
JR-123	6.3	6.0	6.3	5.3	5.0	3.7	4.3	4.7	6.0	5.2
UMPQUA	5.3	4.7	4.7	5.7	6.0	5.0	5.0	5.0	5.3	5.2
XCELERATOR	6.3	5.0	6.3	6.3	5.7	3.7	4.3	4.3	6.0	5.2
ASP0117 (A-PR15)	6.0	6.0	5.3	5.7	5.0	5.0	5.3	4.7	4.0	5.1
DLFPS-236/3550	6.0	4.7	5.3	6.0	4.7	5.0	5.0	4.7	5.3	5.1
HOMERUN LS (PPG-PR 419)	5.3	6.3	6.0	6.0	5.7	4.0	4.3	4.0	4.7	5.1
PST-2PDA	6.0	6.0	4.3	5.0	5.7	5.0	5.3	4.0	5.7	5.1
SR 4650	5.0	6.0	6.3	6.0	5.3	4.0	4.7	4.3	4.3	5.1
DERBY XTREME	6.0	5.0	5.3	5.0	4.3	4.3	5.0	4.7	6.0	5.0
MAN O WAR	6.7	5.7	6.0	6.0	5.3	3.0	4.3	4.0	5.3	5.0
MRS�-PR16	7.7	6.0	6.3	4.7	4.3	5.3	6.3	3.3	3.7	5.0
PR-5-16	6.0	6.0	5.0	5.7	5.3	4.0	4.7	4.3	5.3	5.0
PST-2EGAD	5.3	6.0	5.0	4.7	4.3	4.3	5.3	4.3	6.0	5.0
PHARAOH	6.3	6.3	6.0	6.0	5.3	3.0	3.3	4.0	5.3	4.9
PARADOX GLR (PPG-PR 331)	5.0	5.0	6.0	6.0	5.7	3.7	4.7	3.7	4.3	4.9
NP-3	6.0	5.7	5.7	6.7	5.7	2.3	4.3	3.3	5.0	4.8
ASP0116EXT	9.0	5.7	4.7	4.7	4.7	5.0	5.3	4.0	3.7	4.7
BAR LP 6233	3.7	4.3	4.0	5.0	5.7	5.0	4.3	4.0	5.3	4.7
CS-6	8.0	6.0	5.7	4.3	4.3	4.7	5.3	3.3	4.0	4.7
MRS�-PR15	6.3	5.0	6.0	4.0	4.7	4.3	5.3	4.3	4.0	4.7
PPG-PR 422	6.3	5.3	4.7	6.3	5.0	3.0	4.0	3.7	5.3	4.7
SNX	7.7	6.0	5.3	4.7	4.3	4.7	5.0	3.7	3.7	4.7
APR2612	6.3	4.0	4.3	5.3	5.0	4.7	6.3	3.7	3.7	4.6
ASP0218 (A-6D)	6.3	5.3	5.0	4.7	4.3	5.0	4.3	4.0	4.0	4.6
BAR LP 6159	4.0	4.7	5.0	5.0	4.7	5.0	5.3	4.0	3.0	4.6
DLFPS-236/3538	4.0	5.7	5.3	5.3	4.3	3.3	4.0	4.3	4.7	4.6
GO-142	4.7	5.0	4.7	4.3	4.0	5.3	5.3	4.3	4.0	4.6
BAR LP 6158	3.3	5.0	4.0	5.3	4.7	4.3	5.0	4.3	3.3	4.5
TEE-ME-UP (BSP-25)	7.0	4.3	4.0	4.0	5.0	5.3	5.3	4.0	4.0	4.5
GO-143	7.0	4.7	4.7	4.7	3.7	4.7	5.0	4.3	4.0	4.5
PEPPER II (RAD-PR 103)	7.7	5.0	5.0	4.7	4.7	4.0	4.0	3.7	4.7	4.5
RAD-PR 112	8.0	5.3	4.7	5.0	3.7	4.0	4.3	3.7	5.0	4.5
ALLSTAR III	6.3	5.7	5.0	4.7	4.0	4.3	4.0	3.7	4.0	4.4
BAR LP 6117	3.7	4.0	4.3	4.7	4.3	5.3	6.0	3.3	3.0	4.4
GREEN SUPREME+ (AMP-R1)	6.7	4.3	4.3	5.0	4.7	4.0	5.0	3.3	3.3	4.3
BAR LP 6164	3.3	4.0	4.0	4.7	4.3	4.3	5.3	4.0	4.0	4.3
HATRICK (BSP-17)	8.3	5.0	4.7	4.3	4.3	5.0	4.7	3.0	3.0	4.3

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2018 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	
KARMA	4.7	4.0	5.0	5.0	4.7	3.7	4.3	3.7	4.3	4.3
EVOLVE	4.7	3.7	4.3	5.3	4.0	3.7	4.3	4.0	4.3	4.2
GO-141	6.7	3.3	4.0	4.7	3.7	4.3	4.0	3.7	4.0	4.0
SAGUARO	4.7	4.3	5.7	4.3	4.3	2.3	3.3	3.0	4.0	3.9
LPB-SD-102	6.0	4.0	4.3	4.7	4.0	3.3	3.0	3.0	4.0	3.8
BAR LP 6131	4.7	3.3	3.7	4.0	3.0	4.3	4.3	3.0	3.7	3.7
FIREBALL (BWH)	8.0	3.7	3.7	3.3	3.7	3.7	4.7	3.3	3.3	3.7
LPB-SD-103	5.0	4.0	4.7	4.7	3.0	2.0	3.3	3.7	4.0	3.7
BAR LP 6162	6.7	4.0	3.7	3.0	3.7	3.3	4.3	3.0	3.7	3.6
LPB-SD-104	4.7	4.0	4.3	5.7	4.3	2.3	2.0	2.7	3.3	3.6
BAR LP 6165	1.0	3.3	3.0	3.3	4.0	3.3	4.3	2.7	4.0	3.5
DLFPS-238/3014	4.0	3.7	3.7	4.3	3.0	4.0	3.0	2.3	3.7	3.5
MENSA	5.0	4.0	4.3	5.0	4.3	2.7	2.3	2.3	3.0	3.5
JR-747	4.7	3.7	4.0	4.3	3.7	2.3	2.7	2.3	3.3	3.3
JR-888	2.7	4.0	4.3	4.7	4.0	3.0	1.7	1.7	3.3	3.3
BRIGHTSTAR SLT	4.0	3.7	3.7	2.3	3.3	3.0	3.3	2.7	3.3	3.2
SAVANT	3.3	4.0	4.7	4.7	3.0	1.7	1.7	3.0	3.0	3.2
LPB-SD-101	3.3	3.0	3.3	4.3	2.7	2.3	2.0	2.3	3.3	2.9
LPB-SD-105	4.0	2.7	3.3	3.7	3.0	2.0	1.3	2.3	2.7	2.6
LINN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	1.2	1.5	1.6	1.2	1.4	1.7	1.9	1.6	1.4	0.8
C.V. (%)	13.5	17.5	17.6	13.8	17.0	22.4	23.1	22.4	18.4	11.3

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 RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
2018 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
DLFPS-236/3541	7.0	6.0	6.0	7.0	7.3	6.7	7.0	7.0	6.7	7.0	8.0	6.7	6.7	6.8
DLFPS-236/3545	7.3	5.7	7.0	6.3	6.0	6.3	7.3	7.7	7.0	7.3	7.7	6.3	6.3	6.8
DLFPS-236/3547	7.0	5.7	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.7	6.3	6.3	6.8
FURLONG (LTP-FCB)	7.3	5.3	6.7	6.7	6.3	6.3	7.0	7.3	7.0	7.3	8.0	6.7	6.3	6.8
JR-197	7.3	5.7	6.7	6.7	6.3	6.3	7.3	7.7	7.0	7.0	7.3	6.7	6.7	6.8
PPG-PR 367	7.3	5.7	6.7	6.7	6.0	6.7	7.3	7.7	6.3	7.0	7.7	7.0	6.7	6.8
DLFPS-236/3556	7.0	5.7	6.3	6.7	6.3	6.3	7.0	7.0	7.3	7.3	7.7	6.7	6.3	6.7
LPB-SD-102	6.7	6.0	6.7	7.0	6.7	6.3	7.0	7.0	7.0	7.0	7.0	6.0	6.3	6.7
MAN O WAR	6.7	5.7	6.7	6.7	6.3	6.3	7.3	7.3	6.3	7.3	7.7	6.3	6.3	6.7
PST-2A2	7.3	6.0	7.0	7.0	6.3	6.3	7.3	7.3	7.0	7.0	6.7	6.0	6.3	6.7
ALLOY (RRT)	7.0	5.3	6.3	6.7	6.3	7.0	7.0	7.0	6.7	7.0	7.0	6.7	6.3	6.6
APPLE 3GL (PPG-PR 339)	7.0	5.7	6.7	6.7	6.3	6.3	7.0	7.0	7.0	7.0	7.3	6.3	6.0	6.6
DLFPS-236/3542	7.0	6.0	6.0	7.0	7.0	6.0	7.0	7.0	6.7	7.0	7.0	6.0	6.0	6.6
DLFPS-236/3543	7.3	5.3	6.3	6.7	6.7	6.7	7.3	7.3	7.0	7.0	7.3	6.0	6.0	6.6
DLFPS-236/3544	7.0	5.3	6.3	6.3	6.3	6.7	7.3	7.3	6.7	7.0	7.3	6.3	6.3	6.6
DLFPS-236/3546	7.3	5.3	6.0	6.3	6.7	6.3	7.3	7.7	6.7	7.0	7.7	6.3	6.0	6.6
HOMERUN LS (PPG-PR 419)	7.0	5.7	6.3	6.3	6.0	7.0	7.3	7.3	6.7	6.7	7.0	6.3	6.3	6.6
OVERDRIVE 5G	7.0	5.3	6.3	6.3	6.0	6.7	7.0	7.0	6.7	7.3	7.3	6.3	6.7	6.6
PHARAOH	7.0	5.7	6.3	6.3	6.0	6.7	7.0	7.0	6.7	7.0	7.7	6.3	6.0	6.6
PPG-PR 372	7.0	5.7	6.3	6.7	7.0	6.7	7.0	7.0	6.7	7.0	7.0	6.0	6.3	6.6
PR-6-15	7.3	5.7	6.3	6.7	6.7	6.7	7.3	7.3	7.0	6.7	6.7	6.0	6.0	6.6
SLUGGER 3GL (PPG-PR 343)	7.0	5.7	6.3	7.0	6.7	6.3	7.0	7.0	6.3	7.0	7.0	6.3	6.3	6.6
SPIKE GLS (UF3)	7.0	5.3	6.7	6.7	6.0	6.0	7.0	7.0	7.0	7.3	7.7	6.3	6.7	6.6
UMPQUA	7.0	5.7	7.0	7.0	6.3	6.3	7.0	7.0	7.0	7.0	6.7	6.0	6.3	6.6
02BS2	7.0	5.0	6.0	6.7	6.3	6.3	7.0	7.0	6.0	7.3	7.7	6.0	6.3	6.5
ASP0118GL (A-4G)	7.7	5.7	6.3	6.3	6.0	6.3	7.0	7.3	7.3	7.0	7.0	6.0	6.0	6.5
CPN	7.0	5.3	6.3	6.7	6.0	6.3	7.0	7.0	6.7	7.0	7.0	6.3	6.3	6.5
DERBY XTREME	7.0	5.0	6.0	6.3	6.3	6.3	7.0	7.3	6.7	7.0	7.0	6.7	6.3	6.5
DLFPS-236/3550	7.3	5.3	7.0	7.0	7.0	6.3	6.7	7.0	6.7	7.0	6.7	6.0	5.7	6.5
DLFPS-236/3552	7.7	5.7	6.0	6.3	6.3	6.7	7.0	7.0	7.0	7.3	6.7	6.0	6.0	6.5
DLFPS-236/3553	6.7	5.7	6.7	6.7	6.3	6.3	6.7	6.7	6.7	7.0	7.7	6.0	6.0	6.5
PARAGON 2 GLR (FP2)	7.0	5.7	5.7	6.3	6.3	7.0	7.0	7.0	6.3	6.7	7.7	6.3	6.3	6.5
JR-123	7.0	5.7	5.7	6.7	6.7	6.3	7.0	7.3	7.0	7.0	7.0	6.3	5.7	6.5
PARADOX GLR (PPG-PR 331)	7.0	5.3	6.3	6.3	6.0	6.0	7.0	7.3	6.7	6.7	7.3	6.3	6.3	6.5
PPG-PR 421	7.0	5.3	5.7	6.3	6.3	6.7	7.3	7.3	7.0	7.0	7.0	6.0	5.7	6.5
PPG-PR 424	7.0	5.0	6.7	6.7	6.3	6.3	7.0	7.0	7.0	7.3	6.7	6.0	6.0	6.5
PST-2FOXY	7.0	5.7	6.3	6.3	6.3	6.3	6.7	6.7	7.0	7.0	7.3	6.3	6.0	6.5
RAD-PR 112	7.3	5.7	6.3	7.0	7.0	6.3	7.0	6.7	6.3	7.0	7.0	6.0	6.0	6.5
021	7.0	5.7	6.3	6.3	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0	6.4
023	7.0	5.0	5.7	6.3	6.3	6.7	7.0	7.0	6.7	7.0	7.0	6.0	6.0	6.4
02BS1	7.0	5.7	6.0	6.0	5.7	6.3	6.7	6.7	6.7	7.0	7.0	6.3	6.3	6.4
DLFPS-236/3554	7.3	5.7	5.7	6.0	6.3	6.7	7.0	7.3	7.0	7.0	6.7	6.0	5.7	6.4
INTENSE	7.0	5.3	5.7	6.0	5.7	6.3	7.0	7.3	7.0	7.0	6.7	6.3	6.0	6.4
NP-2	7.0	5.7	6.3	6.3	5.7	6.7	7.0	7.0	6.7	7.3	6.7	6.0	6.0	6.4
NP-3	7.0	5.3	6.3	6.3	6.0	6.0	7.0	7.3	6.7	6.7	6.7	6.0	6.3	6.4
PPG-PR 420	7.0	5.3	6.3	6.3	6.0	6.7	7.0	7.0	7.0	7.0	7.0	6.0	5.7	6.4
PPG-PR 422	7.0	5.3	6.0	6.3	6.3	6.3	7.0	7.3	6.7	7.0	7.0	6.0	6.0	6.4

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
2018 DATA
TURFGRASS QUALITY 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-2GTD	7.0	5.3	6.3	6.3	6.0	6.3	7.0	7.0	6.7	7.0	7.0	6.0	6.0	6.4
SLIDER LS (PPG-PR 241)	7.3	5.3	6.0	6.3	6.3	6.3	7.0	7.3	6.7	7.0	7.0	6.0	6.0	6.4
ASP0117 (A-PR15)	7.0	5.0	6.0	6.3	6.3	6.0	7.0	7.0	6.7	6.3	6.3	6.0	6.0	6.3
FIREBALL (BWH)	8.0	5.7	5.7	6.3	6.3	6.3	7.0	7.0	6.7	6.3	6.7	6.0	6.0	6.3
DLFPS-236/3548	7.0	5.0	5.0	6.0	6.3	7.0	7.0	7.0	6.3	6.7	6.7	6.0	6.0	6.3
FASTBALL 3GL (PPG-PR 329)	7.0	5.0	6.0	6.0	5.7	6.7	7.0	7.3	6.7	7.0	6.7	6.3	5.7	6.3
GRAY WOLF (PST-2GAL)	6.7	4.7	5.7	6.0	6.0	6.7	7.0	7.0	6.7	7.0	7.0	6.3	6.0	6.3
LPB-SD-104	7.0	5.0	6.0	6.7	7.0	6.3	7.0	7.0	7.0	6.7	6.3	5.3	5.0	6.3
PL2	7.0	5.0	6.0	6.3	6.0	6.0	7.0	7.0	6.7	6.7	7.3	6.0	6.0	6.3
PPG-PR 360	7.0	5.0	5.7	6.3	6.3	6.7	7.0	6.3	6.3	7.0	7.0	6.0	5.7	6.3
SEABISCUIT	7.0	6.0	6.3	6.3	5.7	6.0	6.7	6.7	6.0	6.7	6.7	6.0	6.0	6.3
SILVER SPORT (PST-2CRP)	7.3	5.3	5.7	6.0	6.0	6.0	7.0	7.0	6.7	7.0	6.7	6.0	6.0	6.3
SR 4650	7.0	5.0	6.0	6.3	6.3	6.0	6.7	6.7	6.7	6.3	7.0	6.3	5.7	6.3
XCELERATOR	7.0	5.0	6.0	6.0	6.0	6.3	7.0	7.0	6.7	6.7	7.0	6.0	6.0	6.3
ASP0116EXT	7.7	5.3	6.3	7.0	6.7	6.3	6.7	6.7	6.0	6.3	6.0	5.7	5.7	6.2
ASP0218 (A-6D)	7.3	5.0	6.0	6.3	6.3	5.7	6.7	6.7	6.3	6.3	6.7	6.0	6.0	6.2
TEE-ME-UP (BSP-25)	7.7	5.3	6.7	6.7	6.3	6.0	6.7	7.0	6.0	6.0	6.0	6.0	6.0	6.2
GRAND SLAM GLD	7.0	5.3	5.3	6.3	6.3	6.0	6.7	6.7	6.7	7.0	6.7	6.0	5.7	6.2
LPB-SD-101	6.3	5.0	5.7	6.0	6.3	6.3	7.0	7.0	6.3	6.7	6.7	5.7	5.3	6.2
LPB-SD-103	6.7	4.7	5.7	6.0	6.0	6.0	7.0	7.0	6.7	6.3	6.7	6.0	6.0	6.2
MENSA	6.7	5.0	5.3	6.0	6.3	6.0	7.0	7.3	6.3	6.3	7.0	6.0	6.0	6.2
PPG-PR 370	7.0	5.0	5.7	6.0	6.3	6.3	6.7	6.7	6.0	6.7	7.0	6.0	6.0	6.2
PPG-PR 371	7.0	4.7	5.7	6.3	6.3	6.3	7.0	7.0	6.7	6.7	6.7	5.7	5.7	6.2
PST-2BDT	7.0	5.0	6.0	6.0	6.0	6.7	6.7	6.7	6.7	6.3	6.7	5.7	5.7	6.2
PST-2MAY	7.0	5.0	5.7	6.0	6.0	6.3	6.7	6.7	6.3	6.7	7.0	6.0	6.0	6.2
SHIELD (02BS4)	7.0	5.3	5.7	6.0	5.7	6.0	7.0	7.0	6.7	7.0	6.3	6.0	6.0	6.2
SIGNET	7.3	5.0	5.7	6.3	6.0	6.3	7.0	7.0	6.3	6.7	6.3	6.0	6.0	6.2
CS-6	7.7	5.0	6.0	6.0	6.0	6.0	6.7	6.7	6.0	6.3	6.3	6.0	6.0	6.1
DLFPS-236/3540	7.0	5.0	5.7	6.0	6.0	6.3	6.7	6.7	6.7	6.3	6.3	6.0	6.0	6.1
GRAY HAWK (PST-2FIND)	6.7	5.0	5.7	6.0	5.7	6.0	6.7	6.7	7.0	7.0	6.3	6.0	5.3	6.1
JR-747	7.0	4.7	5.0	6.0	6.7	7.0	7.0	6.7	6.0	6.0	6.3	6.0	5.7	6.1
LPB-SD-105	6.7	4.0	5.0	6.0	7.0	6.0	7.0	7.0	6.7	6.7	6.3	5.7	5.7	6.1
PPG-PR 423	7.3	4.7	5.3	6.0	6.3	6.0	6.7	6.7	6.3	7.0	6.7	6.0	6.0	6.1
PR-5-16	7.0	4.7	5.7	5.7	5.7	6.0	7.0	7.0	6.3	6.7	6.7	6.0	6.0	6.1
ALLSTAR III	7.0	5.0	5.7	6.0	6.0	6.0	6.7	6.7	6.3	6.3	6.0	5.7	5.7	6.0
GREEN SUPREME+ (AMP-R1)	7.3	4.7	5.3	6.0	6.0	6.3	6.7	7.0	6.3	6.3	6.7	5.3	5.3	6.0
HATRICK (BSP-17)	8.0	4.7	5.7	6.3	6.3	6.3	7.0	7.0	6.7	6.0	6.0	5.0	5.3	6.0
DLFPS-236/3538	7.0	5.0	5.3	5.7	5.7	6.0	6.7	6.7	6.7	6.3	6.3	6.0	5.3	6.0
GO-143	7.0	5.0	5.3	6.3	6.3	6.0	6.7	6.7	6.7	6.0	6.0	5.7	5.3	6.0
KARMA	7.0	5.3	5.3	6.0	6.0	6.3	7.0	6.7	6.0	6.0	6.0	5.7	5.7	6.0
MRS-L-PR16	7.7	5.0	5.3	6.0	6.0	6.0	7.0	7.0	6.3	6.3	6.7	5.0	5.3	6.0
PEPPER II (RAD-PR 103)	7.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.7	6.0	6.0	5.7	6.0
PPG-PR 385	7.0	4.7	5.3	6.0	5.7	6.0	6.7	6.7	7.0	6.3	6.0	6.0	5.7	6.0
PST-2EGAD	7.0	5.0	5.3	5.7	5.7	6.3	7.0	7.0	6.7	6.7	6.0	5.7	5.3	6.0
SAVANT	6.3	4.3	5.3	6.3	6.7	6.0	6.3	6.3	6.3	6.7	6.7	5.7	5.3	6.0
APR2616	6.7	5.0	5.0	6.0	6.0	6.0	6.7	6.7	6.0	6.3	6.7	5.7	5.3	5.9
MRS-L-PR15	7.0	4.7	5.7	6.0	6.0	6.0	6.7	6.7	6.3	6.0	6.0	5.0	5.3	5.9

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
2018 DATA
TURFGRASS QUALITY 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-2PDA	7.0	5.0	6.0	6.0	5.0	6.0	7.0	7.0	7.0	6.0	6.0	5.3	5.0	5.9
SAGUARO	6.3	4.7	5.3	5.7	5.7	6.3	6.7	6.3	6.3	6.0	6.3	5.3	5.7	5.9
SNX	7.3	5.0	5.3	6.0	6.0	6.0	7.0	7.0	6.3	6.0	6.0	5.3	5.3	5.9
APR2612	7.0	4.7	5.3	6.0	6.0	6.0	6.3	6.3	6.3	6.0	6.0	5.3	5.3	5.8
EVOLVE	7.0	4.7	5.3	5.7	5.7	6.0	6.7	6.7	6.3	6.0	6.0	5.0	5.7	5.8
GO-142	7.0	4.7	5.3	6.0	6.0	6.3	6.3	6.0	6.0	6.0	6.0	5.3	5.7	5.8
BAR LP 6117	6.7	4.7	5.0	5.7	6.0	6.0	6.3	6.3	6.3	5.7	6.0	5.0	5.0	5.7
JR-888	6.7	4.0	5.0	5.7	5.7	5.7	6.3	6.7	6.7	6.0	6.0	5.3	5.3	5.7
APR3060	6.7	4.0	5.0	6.0	6.0	6.0	6.3	6.3	5.7	5.7	6.0	5.0	5.3	5.6
BAR LP 6131	6.7	4.7	5.0	5.3	5.3	6.0	6.0	6.0	6.3	5.7	6.0	5.0	5.3	5.6
BAR LP 6158	6.7	4.3	5.0	5.7	5.7	5.7	6.7	6.7	6.0	6.0	6.0	5.0	5.0	5.6
BAR LP 6159	6.3	4.3	5.0	5.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.3	5.3	5.6
BAR LP 6164	6.3	4.7	5.0	5.7	5.7	6.0	6.0	6.0	6.3	6.0	6.0	5.0	5.0	5.6
GO-141	6.7	4.3	5.0	6.0	6.0	6.0	6.3	6.3	5.7	5.7	6.0	5.0	5.0	5.6
BAR LP 6165	6.0	4.0	5.3	6.0	6.0	5.0	6.0	6.0	6.0	5.7	5.7	5.0	5.3	5.5
BRIGHTSTAR SLT	7.0	4.3	5.3	5.3	5.0	5.7	6.0	6.3	5.7	6.0	6.0	5.3	5.3	5.5
DLFPS-238/3014	6.0	4.3	5.0	5.7	5.7	6.0	6.0	6.0	5.7	6.0	6.0	5.0	5.0	5.5
BAR LP 6162	6.3	4.3	5.3	5.3	5.3	5.7	6.0	6.0	5.7	5.7	6.0	5.0	5.0	5.4
BAR LP 6233	6.3	3.3	5.0	5.0	5.0	6.0	6.3	6.3	6.0	6.0	5.7	5.3	5.3	5.4
LINN	5.0	3.3	4.3	4.3	4.0	5.0	5.3	5.3	5.3	5.0	5.0	5.0	5.0	4.8
LSD VALUE	0.6	1.0	1.2	0.9	0.8	0.9	0.8	0.9	1.1	0.7	0.7	0.6	0.7	0.4
C.V. (%)	5.2	11.1	11.0	8.0	7.6	7.2	5.9	6.9	7.9	6.5	6.7	6.3	7.3	3.9

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

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

TABLE 16.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC STUDY), OR 1/
 2018 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	
FURLONG (LTP-FCB)	5.0	6.0	6.7	7.0	6.3	7.0	7.3	7.3	7.7	6.0	6.0	6.0	6.5
SLUGGER 3GL (PPG-PR 343)	5.3	6.7	7.0	6.7	6.3	7.0	7.0	6.7	7.0	6.0	6.0	6.0	6.5
DERBY XTREME	5.0	5.7	6.7	6.7	6.7	7.0	7.0	6.7	7.0	6.3	6.0	6.0	6.4
DLFPS-236/3541	5.0	5.7	6.7	7.0	6.7	7.0	6.7	6.7	7.0	6.0	6.0	6.0	6.4
DLFPS-236/3552	5.0	6.0	6.7	6.7	6.7	7.0	7.0	6.7	7.3	6.0	5.7	5.7	6.4
PPG-PR 372	5.3	6.0	6.7	7.0	6.7	7.0	7.0	6.7	7.0	6.0	5.7	5.7	6.4
ALLOY (RRT)	4.7	5.7	6.0	6.0	6.7	7.0	7.3	7.0	7.3	6.0	6.0	6.0	6.3
APPLE 3GL (PPG-PR 339)	5.0	6.3	6.7	6.7	6.0	6.7	7.0	6.7	6.7	6.0	6.0	6.0	6.3
DLFPS-236/3546	4.3	5.3	6.3	6.3	7.3	7.3	7.3	7.0	7.0	6.0	5.7	5.7	6.3
DLFPS-236/3550	4.7	5.7	6.3	6.7	6.3	7.0	7.0	7.0	7.0	6.0	5.7	5.7	6.3
DLFPS-236/3556	4.7	5.7	6.3	6.7	6.7	7.0	7.0	7.3	7.0	6.0	5.7	6.0	6.3
LPB-SD-102	5.0	6.0	7.0	7.0	6.3	7.0	7.0	6.7	6.7	6.0	5.7	5.7	6.3
NP-2	4.3	6.0	6.3	6.0	6.7	7.3	7.3	6.7	7.0	6.0	6.0	5.7	6.3
NP-3	5.3	6.0	6.3	6.3	6.0	7.0	7.3	6.7	7.0	6.0	5.3	5.7	6.3
OVERDRIVE 5G	5.3	5.7	6.0	6.0	6.7	7.0	7.0	6.7	7.0	6.0	6.0	6.0	6.3
PHARAOH	5.0	6.0	6.3	6.0	6.7	7.0	6.7	6.7	7.3	6.0	6.0	5.7	6.3
PPG-PR 367	4.7	6.0	6.7	6.7	7.0	7.0	7.0	6.3	7.0	6.0	5.7	5.7	6.3
PPG-PR 421	5.0	5.3	6.3	6.3	6.7	7.0	7.0	7.0	7.0	6.0	5.7	5.7	6.3
PPG-PR 424	4.7	5.7	6.3	6.7	6.0	7.0	7.0	7.0	7.7	6.0	6.0	6.0	6.3
PST-2A2	5.3	6.3	6.3	6.3	6.0	7.0	7.3	6.7	7.0	6.0	5.7	5.7	6.3
SLIDER LS (PPG-PR 241)	4.7	5.7	6.7	6.7	6.3	7.0	7.0	7.0	7.0	6.0	6.0	6.0	6.3
021	4.3	6.0	6.3	6.0	6.3	6.7	6.7	6.7	7.0	6.0	6.0	6.0	6.2
DLFPS-236/3542	5.3	5.3	6.3	7.0	6.7	7.0	6.7	6.7	6.3	6.0	5.7	5.7	6.2
DLFPS-236/3543	4.3	5.3	6.3	6.7	6.3	7.0	7.3	7.0	7.0	6.0	6.0	5.3	6.2
DLFPS-236/3544	5.0	5.3	6.0	6.0	6.7	7.0	7.0	6.7	7.0	6.0	5.7	5.7	6.2
DLFPS-236/3547	4.7	5.7	6.0	6.3	6.3	7.0	7.0	6.7	7.0	6.0	6.0	6.0	6.2
PARAGON 2 GLR (FP2)	4.7	5.7	6.3	6.3	6.7	7.0	7.0	6.7	7.0	6.0	5.7	5.7	6.2
INTENSE	4.3	5.3	6.3	6.3	6.7	7.0	7.3	6.7	7.0	6.0	5.7	5.3	6.2
JR-197	5.0	6.0	6.0	6.0	6.0	6.7	7.0	7.0	7.0	6.0	6.0	5.7	6.2
PPG-PR 371	4.7	5.7	6.0	6.0	6.3	7.0	7.0	7.0	6.7	6.0	6.0	5.7	6.2
PPG-PR 422	4.7	5.7	6.0	6.0	6.7	7.0	7.0	6.7	7.0	6.0	6.0	6.0	6.2
023	4.0	5.0	6.0	6.3	6.3	7.0	7.0	6.7	6.3	6.0	6.0	6.0	6.1
02BS1	5.0	5.7	5.7	5.7	6.3	7.0	7.3	6.7	7.0	6.0	5.3	5.3	6.1
02BS2	4.3	5.7	6.0	6.0	6.3	7.0	7.0	6.3	7.0	6.0	5.7	5.3	6.1
ASP0118GL (A-4G)	5.0	6.0	6.3	6.3	6.3	7.0	7.0	7.0	6.7	5.7	5.3	5.0	6.1
FIREBALL (BWH)	4.7	5.0	6.0	6.3	7.0	6.7	7.0	6.7	6.3	6.0	5.7	5.7	6.1
CPN	4.3	5.3	5.7	6.0	6.7	7.0	7.0	6.7	6.7	6.0	5.7	5.7	6.1
DLFPS-236/3545	4.7	5.7	6.0	6.0	6.3	7.0	7.0	6.7	7.0	6.0	5.7	5.7	6.1
DLFPS-236/3548	4.3	5.0	6.0	7.0	7.0	7.0	7.0	6.3	7.0	6.0	5.3	5.3	6.1
DLFPS-236/3553	5.0	6.0	6.0	6.0	6.3	6.7	6.7	6.7	7.0	6.0	5.7	5.7	6.1
FASTBALL 3GL (PPG-PR 329)	4.0	5.3	5.7	5.7	6.7	7.0	7.0	6.7	7.0	6.0	6.0	6.0	6.1
JR-123	4.3	5.3	6.3	6.7	6.7	7.0	6.7	7.0	6.7	6.0	5.3	5.3	6.1
LPB-SD-101	5.0	5.7	6.3	6.3	6.7	7.0	6.7	6.7	6.3	5.3	6.0	5.7	6.1
LPB-SD-104	4.3	5.3	6.3	7.0	6.7	7.0	7.0	6.7	6.7	5.7	5.7	5.0	6.1
MAN O WAR	5.0	5.3	6.0	6.0	6.3	7.0	7.0	6.3	7.0	6.0	5.3	5.3	6.1
PL2	4.3	6.0	6.3	6.0	6.0	7.0	7.0	6.7	7.0	6.0	5.3	5.3	6.1
PARADOX GLR (PPG-PR 331)	4.7	5.7	6.0	6.0	6.0	7.0	7.3	6.7	7.0	6.0	5.7	5.7	6.1

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC STUDY), OR 1/
2018 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 420	4.7	5.7	6.0	6.0	6.3	6.7	7.3	6.7	6.7	6.0	5.7	5.7	6.1
PPG-PR 423	4.3	5.3	6.3	6.3	6.3	7.0	7.0	6.7	7.0	6.0	5.7	5.7	6.1
PR-6-15	4.7	5.3	6.0	6.7	6.7	7.0	7.3	6.7	6.7	6.0	5.3	5.3	6.1
PST-2EGAD	5.0	6.0	6.0	5.3	6.0	6.7	6.7	6.7	7.0	6.0	5.7	5.7	6.1
PST-2FOXY	4.7	5.3	6.0	6.0	6.7	7.0	7.0	7.0	7.0	6.0	5.3	5.0	6.1
SPIKE GLS (UF3)	4.7	5.3	6.0	6.0	6.0	7.0	7.0	7.0	7.3	6.0	5.3	5.3	6.1
UMPQUA	4.7	6.0	6.3	6.0	6.0	7.0	7.0	6.3	7.0	6.0	5.3	5.3	6.1
ASP0117 (A-PR15)	4.7	5.7	6.3	6.3	6.3	7.0	7.0	6.7	6.3	5.7	5.0	5.0	6.0
DLFPS-236/3540	5.0	5.3	6.3	6.3	6.3	6.3	6.3	6.7	6.3	6.0	5.3	5.7	6.0
DLFPS-236/3554	4.7	6.0	6.7	6.3	6.0	6.3	6.3	6.3	7.0	5.7	5.7	5.3	6.0
HOMERUN LS (PPG-PR 419)	4.0	5.0	5.7	5.7	6.7	7.0	7.0	6.7	6.7	6.0	5.7	5.7	6.0
PPG-PR 360	4.3	5.7	6.3	6.3	6.7	6.3	6.3	6.0	6.7	6.0	5.7	5.3	6.0
PR-5-16	4.7	5.3	6.0	6.0	6.0	7.0	7.0	6.3	6.7	6.0	5.0	5.7	6.0
PST-2GTD	4.3	5.7	6.0	5.7	6.3	6.7	6.7	6.7	6.7	6.0	5.7	5.7	6.0
PST-2MAY	4.7	5.7	6.0	6.0	6.0	6.7	6.7	6.7	6.7	6.0	5.3	5.3	6.0
SEABISCUIT	5.0	5.3	6.0	6.0	6.3	6.7	6.7	6.7	6.7	6.0	5.3	5.3	6.0
TEE-ME-UP (BSP-25)	4.7	5.7	6.3	6.7	6.0	7.0	7.0	6.0	6.0	5.3	5.3	5.3	5.9
CS-6	4.3	5.0	6.0	6.0	6.7	6.3	6.7	6.7	6.3	6.0	5.0	5.3	5.9
GRAND SLAM GLD	4.0	5.3	5.7	6.0	6.0	6.7	6.7	6.7	7.0	6.0	5.3	5.3	5.9
GRAY HAWK (PST-2FIND)	4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7	7.0	6.0	5.3	5.3	5.9
GRAY WOLF (PST-2GAL)	4.3	5.7	6.0	5.7	6.3	6.7	6.7	6.7	6.7	6.0	5.3	5.3	5.9
KARMA	4.3	5.3	6.0	6.0	6.3	7.0	7.0	6.0	6.7	6.0	5.3	5.3	5.9
MENSA	4.7	5.3	6.0	6.3	6.0	6.7	6.7	5.7	6.3	6.0	5.7	5.7	5.9
PPG-PR 370	3.7	5.0	5.7	6.3	6.3	7.0	7.0	6.0	6.7	6.0	5.3	5.3	5.9
PST-2BDT	4.7	6.0	6.0	6.0	6.0	6.7	6.7	6.0	6.7	5.7	5.3	5.7	5.9
RAD-PR 112	5.0	5.7	6.3	6.7	6.0	6.3	6.3	6.0	6.0	5.7	5.0	5.3	5.9
SHIELD (02BS4)	4.3	5.7	6.0	5.7	6.0	6.7	6.7	6.3	6.7	6.0	5.0	5.3	5.9
SIGNET	4.0	5.7	6.0	6.0	6.3	6.7	6.7	6.7	6.3	6.0	5.0	5.0	5.9
SILVER SPORT (PST-2CRP)	4.0	5.0	6.0	6.3	6.3	7.0	7.0	6.7	6.7	5.7	5.3	5.3	5.9
ASP0116EXT	4.7	5.7	6.3	6.3	6.0	6.3	6.3	6.0	6.0	5.3	5.0	5.0	5.8
BAR LP 6117	4.0	6.0	6.3	6.3	6.0	6.0	6.0	6.7	6.0	6.0	5.0	5.3	5.8
HATRICK (BSP-17)	4.7	4.7	5.7	6.3	6.0	7.0	7.0	6.0	5.7	5.3	5.0	5.7	5.8
JR-747	4.0	5.0	6.0	6.7	6.7	6.7	6.3	6.0	6.0	5.3	5.3	5.3	5.8
LPB-SD-103	3.7	5.0	5.7	6.0	6.0	7.0	7.0	6.3	6.0	6.0	6.0	5.3	5.8
LPB-SD-105	4.0	5.0	6.0	7.0	6.7	6.7	6.0	5.7	6.3	5.3	5.7	5.3	5.8
PPG-PR 385	3.7	5.3	6.0	6.0	6.0	6.7	6.7	6.0	6.0	6.0	5.3	5.3	5.8
PST-2PDA	4.3	5.7	6.0	5.3	5.7	6.7	7.0	7.0	6.0	6.0	5.0	5.0	5.8
SAVANT	4.3	5.3	6.3	6.7	6.0	6.3	6.3	6.3	6.3	5.7	5.3	5.0	5.8
SR 4650	4.0	5.3	6.0	6.0	6.0	6.7	6.7	6.3	6.0	6.0	5.3	5.3	5.8
XCELERATOR	4.0	5.0	5.7	5.7	6.0	7.0	7.0	6.7	7.0	5.7	5.3	5.0	5.8
APR2612	3.7	5.0	6.0	6.0	6.3	6.7	6.7	6.3	6.3	5.3	5.0	5.0	5.7
ASP0218 (A-6D)	4.3	5.0	6.0	6.0	5.7	6.3	6.3	6.3	6.3	6.0	5.0	5.0	5.7
DLFPS-236/3538	4.0	5.0	6.0	6.3	6.0	6.3	6.3	6.7	6.0	5.7	5.3	5.0	5.7
GO-143	4.3	5.7	6.0	6.0	6.0	6.3	6.3	6.3	6.0	5.3	5.0	5.0	5.7
JR-888	3.7	5.0	6.0	6.0	5.7	6.3	6.7	6.7	6.0	5.7	5.0	5.3	5.7
MRSI-PR15	4.7	5.3	6.0	6.0	6.0	6.7	6.7	6.0	6.0	5.0	5.0	5.3	5.7
MRSI-PR16	4.0	5.0	6.0	6.0	6.3	6.7	6.7	6.0	6.0	5.3	5.0	5.0	5.7

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC STUDY), OR 1/
2018 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	
PEPPER II (RAD-PR 103)	4.0	5.3	6.3	6.7	6.0	6.0	5.7	6.0	6.3	5.7	5.3	5.0	5.7
SNX	4.3	5.0	6.0	6.3	6.3	6.3	6.3	6.0	6.0	5.7	5.0	5.0	5.7
ALLSTAR III	4.7	5.3	5.7	5.7	6.0	6.3	6.3	6.0	6.0	5.7	5.0	5.0	5.6
GREEN SUPREME+ (AMP-R1)	3.7	4.7	5.7	6.0	6.0	6.7	7.0	6.0	6.0	5.7	5.0	5.0	5.6
APR2616	4.0	5.0	6.0	6.0	6.0	6.0	5.7	6.0	6.3	6.0	5.0	5.0	5.6
BAR LP 6164	4.0	5.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.6
GO-142	4.0	5.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0	5.7	5.0	5.0	5.6
SAGUARO	4.0	5.3	5.7	5.7	6.0	6.3	6.3	5.7	6.0	5.3	5.0	5.3	5.6
BAR LP 6158	4.3	5.3	5.7	5.3	6.0	6.0	6.0	6.0	6.0	5.7	5.0	5.0	5.5
EVOLVE	4.3	5.7	5.7	5.7	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.5
BAR LP 6131	4.3	4.7	5.3	5.3	5.7	6.3	6.3	6.0	6.0	5.3	5.0	5.0	5.4
BAR LP 6159	4.0	5.0	5.3	5.3	6.0	6.0	6.0	6.0	6.0	5.7	5.0	5.0	5.4
BAR LP 6233	3.3	4.7	5.0	5.3	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.4
BRIGHTSTAR SLT	4.0	5.0	5.7	5.7	5.7	6.0	6.0	5.7	5.7	6.0	5.0	5.0	5.4
DLFPS-238/3014	4.0	5.0	5.7	5.7	6.0	6.0	6.0	5.7	5.7	5.3	5.0	5.0	5.4
APR3060	3.3	5.0	6.0	6.0	6.0	6.0	6.0	5.7	5.7	5.0	4.7	4.7	5.3
BAR LP 6162	4.0	5.0	5.3	5.3	6.0	6.0	5.7	5.3	5.3	5.0	5.0	5.0	5.3
BAR LP 6165	3.7	4.7	5.7	6.0	5.7	5.7	5.7	6.0	5.7	5.0	5.0	5.3	5.3
GO-141	3.7	4.7	5.7	6.0	6.0	6.0	6.0	5.7	5.7	5.0	4.7	5.0	5.3
LINN	3.0	4.0	4.3	4.3	5.0	5.0	5.0	5.0	5.3	5.0	4.0	5.0	4.6
LSD VALUE	1.2	1.2	0.7	0.7	1.0	0.6	0.8	0.8	0.6	0.5	0.7	1.0	0.3
C.V. (%)	13.5	10.2	6.7	7.0	7.2	5.5	6.9	7.2	6.0	5.2	7.5	8.2	3.6

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

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

TABLE 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
2018 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS								MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT		
ALLOY (RRT)	5.0	5.0	7.7	6.3	6.0	7.3	8.3	7.0	6.8	
HATRICK (BSP-17)	8.3	6.0	7.7	6.7	6.0	6.0	8.0	6.3	6.7	
PPG-PR 360	5.7	5.0	7.0	6.7	6.3	8.0	7.3	6.3	6.7	
ASP0116EXT	6.7	5.0	7.3	6.3	6.0	6.7	7.3	7.3	6.6	
DLFPS-236/3554	6.3	6.0	6.7	7.3	6.0	7.0	7.0	6.3	6.6	
PPG-PR 370	5.3	5.3	6.3	7.7	6.0	7.3	7.0	6.7	6.6	
PPG-PR 421	5.0	5.3	7.0	6.7	6.0	7.3	7.0	6.7	6.6	
RAD-PR 112	7.7	5.3	6.7	8.0	6.3	6.3	6.7	6.7	6.6	
DLFPS-236/3541	4.7	6.0	6.7	6.3	6.0	7.0	7.3	6.3	6.5	
DLFPS-236/3550	5.3	5.3	6.7	6.7	5.7	7.3	7.3	6.3	6.5	
FURLONG (LTP-FCB)	5.7	4.7	6.7	7.0	6.3	7.7	7.3	6.0	6.5	
GRAY WOLF (PST-2GAL)	5.0	4.7	6.7	7.3	6.0	7.3	7.3	6.3	6.5	
PARADOX GLR (PPG-PR 331)	5.3	5.0	6.7	6.0	6.0	8.0	7.0	6.7	6.5	
PPG-PR 371	4.7	5.3	7.0	6.7	6.3	7.0	7.0	6.3	6.5	
PPG-PR 422	5.0	4.7	6.7	6.7	6.3	7.3	7.7	6.0	6.5	
PST-2MAY	5.0	5.3	7.0	6.0	6.3	7.0	7.0	7.0	6.5	
SLUGGER 3GL (PPG-PR 343)	5.3	5.3	7.3	7.0	6.0	6.7	7.3	6.0	6.5	
SNX	5.0	5.7	7.0	6.3	6.0	6.7	7.3	6.7	6.5	
XCELERATOR	4.3	6.0	6.3	6.0	5.7	7.7	7.3	6.3	6.5	
021	3.7	5.7	6.7	5.7	5.7	7.3	7.3	6.3	6.4	
02BS2	4.3	5.3	6.3	5.7	5.7	7.3	8.0	6.7	6.4	
FIREBALL (BWH)	7.3	5.3	7.0	6.7	5.0	7.0	7.7	6.3	6.4	
FASTBALL 3GL (PPG-PR 329)	5.0	5.3	7.0	6.7	6.0	7.0	6.7	6.3	6.4	
PPG-PR 423	5.3	5.0	6.7	6.7	5.7	7.0	7.7	6.0	6.4	
PPG-PR 424	4.7	5.7	7.0	6.3	5.7	6.7	7.3	6.3	6.4	
TEE-ME-UP (BSP-25)	7.3	6.0	7.3	6.3	5.3	6.3	7.3	5.7	6.3	
CS-6	6.3	5.3	7.7	6.3	4.7	6.0	7.3	6.7	6.3	
DLFPS-236/3542	5.7	5.0	7.0	7.0	4.7	6.7	7.3	6.7	6.3	
DLFPS-236/3543	5.7	4.3	6.7	6.7	6.0	7.3	7.3	6.0	6.3	
DLFPS-236/3552	5.0	5.0	6.7	6.7	5.7	7.0	6.7	6.3	6.3	
LPB-SD-103	4.7	5.0	6.3	6.0	5.3	7.7	7.3	6.3	6.3	
ASP0117 (A-PR15)	6.3	5.3	7.0	6.0	5.7	6.3	7.0	6.0	6.2	
DLFPS-236/3538	4.7	5.3	7.3	6.0	5.7	6.3	7.0	6.0	6.2	
DLFPS-236/3548	5.0	4.7	6.7	6.3	5.7	7.3	7.0	5.7	6.2	
LPB-SD-102	6.0	4.0	7.0	6.7	6.0	7.0	7.3	5.7	6.2	
NP-3	5.0	5.3	7.3	7.0	6.0	6.3	6.3	5.0	6.2	
PHARAOH	4.7	5.0	7.0	6.0	6.0	6.7	6.7	6.3	6.2	
SAVANT	3.7	3.7	6.3	6.0	5.7	8.0	7.7	6.3	6.2	
023	5.0	4.3	6.3	6.7	5.7	6.3	7.0	6.7	6.1	
GREEN SUPREME+ (AMP-R1)	5.7	5.3	7.0	5.7	5.0	6.7	7.7	5.7	6.1	
APR2616	5.0	5.0	6.7	6.3	5.7	7.3	6.3	5.3	6.1	
ASP0118GL (A-4G)	5.3	5.7	6.7	6.3	6.0	5.7	6.3	6.0	6.1	
CPN	4.3	5.0	7.0	6.3	4.7	6.0	6.7	7.0	6.1	
DLFPS-236/3544	5.0	5.3	7.0	5.7	5.7	6.0	7.0	6.3	6.1	
DLFPS-236/3545	5.0	6.0	6.0	6.3	5.3	6.3	7.3	5.7	6.1	
PARAGON 2 GLR (FP2)	5.3	5.0	6.7	7.0	5.3	6.3	6.3	6.3	6.1	
GRAND SLAM GLD	5.3	5.3	6.7	6.3	5.3	7.0	6.7	5.7	6.1	

TABLE 17. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS								MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT		
HOMERUN LS (PPG-PR 419)	4.3	5.0	7.7	6.0	6.0	6.3	6.3	5.7	6.1	
NP-2	4.7	5.7	7.0	6.3	6.0	6.0	6.7	5.3	6.1	
PEPPER II (RAD-PR 103)	6.0	5.3	7.3	6.3	5.7	6.0	6.3	5.7	6.1	
PPG-PR 372	5.3	4.7	6.7	7.0	5.7	6.7	6.7	5.7	6.1	
PPG-PR 420	4.7	5.3	6.7	6.0	5.3	7.0	6.7	5.7	6.1	
SIGNET	4.7	5.0	6.7	7.3	5.3	6.3	6.3	6.0	6.1	
SILVER SPORT (PST-2CRP)	6.0	5.0	6.7	6.0	5.3	7.0	7.0	6.0	6.1	
O2BS1	4.3	5.3	6.7	5.3	5.3	5.7	6.7	6.7	6.0	
APPLE 3GL (PPG-PR 339)	5.0	4.3	6.7	6.7	5.7	6.7	6.7	5.7	6.0	
ASP0218 (A-6D)	6.3	5.0	7.0	6.0	4.7	6.0	6.7	7.0	6.0	
DLFPS-236/3540	5.7	4.7	6.7	6.7	5.3	6.3	6.7	6.0	6.0	
DLFPS-236/3546	6.0	4.7	6.7	6.0	5.3	6.7	6.7	6.0	6.0	
DLFPS-236/3553	5.0	4.7	7.0	7.0	5.0	6.3	6.0	5.7	6.0	
JR-747	4.7	3.7	6.3	7.3	5.7	6.7	7.0	5.7	6.0	
LPB-SD-101	5.0	4.3	6.3	5.7	6.0	7.0	6.7	6.0	6.0	
LPB-SD-105	5.3	3.7	5.7	6.0	6.7	7.3	7.7	5.0	6.0	
PL2	5.0	4.3	6.7	6.0	5.3	6.0	7.7	6.0	6.0	
PPG-PR 385	4.0	5.0	6.3	5.7	5.7	6.7	7.0	6.0	6.0	
PST-2A2	5.0	4.3	6.3	6.7	5.3	6.7	6.7	6.0	6.0	
SLIDER LS (PPG-PR 241)	5.0	5.0	6.7	6.0	5.3	7.0	6.7	5.3	6.0	
SPIKE GLS (UF3)	5.0	5.0	6.0	5.7	5.3	7.0	7.0	6.0	6.0	
DLFPS-236/3547	4.7	4.7	6.7	6.0	6.3	6.0	6.3	5.3	5.9	
DLFPS-236/3556	4.3	5.0	7.0	5.7	5.0	6.3	6.7	5.7	5.9	
INTENSE	4.7	5.3	6.7	5.7	5.3	6.0	6.0	6.0	5.9	
JR-123	4.7	4.7	6.7	6.7	4.7	5.3	6.7	6.3	5.9	
PPG-PR 367	4.7	5.0	6.7	6.0	5.0	5.7	6.7	6.0	5.9	
PR-5-16	4.3	5.3	6.3	5.7	5.0	6.3	7.0	5.7	5.9	
PST-2FOXY	5.7	4.3	6.3	6.3	5.0	6.0	7.3	6.0	5.9	
PST-2GTD	5.0	5.3	6.3	5.7	5.3	5.7	7.3	5.3	5.9	
BAR LP 6159	4.3	5.3	6.3	5.0	5.7	6.0	6.0	6.0	5.8	
GRAY HAWK (PST-2FIND)	5.0	4.7	6.3	5.3	5.3	6.0	6.7	6.0	5.8	
JR-888	3.7	4.7	5.7	5.3	6.0	6.7	6.7	5.7	5.8	
LPB-SD-104	6.0	3.7	7.0	7.3	5.3	6.0	6.0	5.3	5.8	
MENSA	5.7	4.0	7.3	6.7	5.0	6.3	6.0	5.3	5.8	
MRSL-PR16	5.3	5.3	7.0	5.0	4.7	6.0	6.7	5.7	5.8	
OVERDRIVE 5G	4.7	5.3	6.0	6.3	4.3	6.3	6.0	6.3	5.8	
PST-2BDT	5.3	5.0	7.0	5.7	4.3	5.7	6.0	6.7	5.8	
PST-2EGAD	4.3	5.3	5.7	5.0	4.7	6.3	7.3	6.0	5.8	
SAGUARO	4.7	5.0	7.0	6.0	4.3	5.7	6.3	6.0	5.8	
UMPQUA	5.0	4.7	6.3	5.3	5.7	6.0	6.3	6.0	5.8	
BAR LP 6164	4.3	5.3	6.3	5.0	4.7	6.7	6.3	5.3	5.7	
JR-197	5.7	6.0	5.7	5.7	4.7	6.0	6.3	5.7	5.7	
KARMA	4.3	4.3	7.0	5.7	4.0	6.0	6.7	6.3	5.7	
MAN O WAR	4.7	4.3	6.7	5.7	5.3	5.7	6.7	5.3	5.7	
PR-6-15	5.3	4.7	7.3	6.0	5.0	5.7	6.0	5.3	5.7	
SHIELD (O2BS4)	4.7	4.7	6.0	6.0	5.0	6.3	6.3	5.7	5.7	
APR2612	5.0	4.3	6.7	5.3	5.3	6.3	6.0	5.3	5.6	

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
2018 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
DERBY XTREME	5.0	4.3	7.0	5.7	4.0	5.3	7.0	5.7	5.6
GO-143	5.3	5.0	6.7	5.0	4.3	6.3	6.3	5.7	5.6
MRS-L-PR15	6.3	4.0	6.7	5.7	5.3	6.0	6.3	5.3	5.6
SR 4650	4.3	5.0	6.7	6.0	5.3	5.7	5.7	5.0	5.6
BAR LP 6117	5.0	5.0	7.0	5.7	4.3	5.0	6.3	5.0	5.5
BAR LP 6158	4.3	4.7	6.3	5.0	4.3	6.3	6.3	5.7	5.5
BRIGHTSTAR SLT	4.3	4.3	6.3	5.0	4.3	6.0	7.0	5.3	5.5
GO-141	4.7	4.7	6.3	6.0	4.3	5.7	6.3	5.3	5.5
PST-2PDA	4.3	5.0	6.3	4.3	4.3	5.7	6.7	6.0	5.5
APR3060	5.0	4.3	6.0	5.3	4.7	6.0	6.0	5.7	5.4
ALLSTAR III	4.3	5.7	5.7	5.0	3.7	5.3	6.0	5.7	5.3
BAR LP 6162	4.3	3.7	6.7	5.0	4.0	5.7	6.3	5.7	5.3
BAR LP 6233	3.7	4.3	6.0	5.0	4.7	5.7	6.0	5.7	5.3
DLFPS-238/3014	4.7	4.3	5.7	5.0	4.3	5.3	6.3	6.3	5.3
BAR LP 6131	4.0	4.3	5.3	4.3	4.3	5.7	7.0	5.3	5.2
GO-142	4.7	4.3	6.3	4.7	4.0	5.0	6.3	6.0	5.2
SEABISCUIT	4.0	4.7	5.7	4.3	4.7	5.3	6.3	5.3	5.2
EVOLVE	3.7	4.3	6.7	4.0	3.3	4.7	5.3	5.7	4.9
BAR LP 6165	3.3	3.7	5.3	4.3	4.0	5.0	6.0	4.7	4.7
LINN	2.0	2.7	3.3	2.0	2.3	2.7	3.3	3.3	2.8
LSD VALUE	1.1	1.2	1.1	1.7	1.3	2.1	2.3	2.5	0.7
C.V. (%)	14.1	13.2	9.2	15.3	13.8	15.5	13.4	14.2	7.5

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

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

TABLE 18. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/ 2018 DATA

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

NAME	GENETIC	QUALITY RATINGS							MEAN
	COLOR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3540	6.3	5.7	7.3	7.0	5.0	5.7	5.3	4.0	5.7
HATRICK (BSP-17)	7.0	5.3	7.0	7.0	4.7	4.7	5.7	5.0	5.6
PARADOX GLR (PPG-PR 331)	6.0	5.0	7.0	6.7	5.0	5.7	5.3	3.7	5.5
PPG-PR 370	6.7	4.7	6.7	7.3	6.3	4.7	4.3	4.3	5.5
PPG-PR 421	6.0	5.0	7.3	7.3	5.0	5.0	5.0	4.0	5.5
SILVER SPORT (PST-2CRP)	5.3	6.3	6.3	7.0	4.3	5.0	5.3	4.3	5.5
PPG-PR 420	6.3	5.3	7.0	6.7	5.7	5.0	4.3	4.0	5.4
SPIKE GLS (UF3)	5.7	4.7	7.0	6.3	5.7	5.7	4.7	4.0	5.4
APR2616	7.0	4.3	6.3	6.3	5.7	6.0	4.7	3.7	5.3
DLFPS-236/3548	6.5	5.5	6.5	6.5	4.5	5.5	5.0	3.5	5.3
FURLONG (LTP-FCB)	6.3	4.3	6.7	6.7	5.3	5.7	4.7	3.7	5.3
PST-2MAY	6.7	5.3	6.7	6.3	4.3	5.0	5.3	4.3	5.3
SAVANT	4.7	3.7	5.3	7.0	5.7	5.3	5.7	4.3	5.3
GRAY WOLF (PST-2GAL)	5.7	5.7	6.3	6.7	5.3	4.3	4.0	4.0	5.2
PST-2FOXY	7.7	5.0	6.0	6.7	5.0	5.3	4.7	3.7	5.2
BAR LP 6164	5.3	5.0	6.3	6.7	4.7	5.0	4.7	3.7	5.1
TEE-ME-UP (BSP-25)	9.0	5.7	6.7	7.0	4.7	4.7	3.3	3.7	5.1
DLFPS-236/3541	6.7	5.3	6.3	6.7	4.7	4.7	4.7	3.7	5.1
DLFPS-236/3545	6.7	5.7	6.0	6.0	5.3	4.3	4.7	4.0	5.1
DLFPS-236/3553	6.3	4.3	6.3	7.0	5.0	5.0	4.0	4.0	5.1
DLFPS-236/3556	5.7	5.0	5.7	6.0	5.0	5.3	4.7	4.0	5.1
INTENSE	5.7	4.7	6.3	6.3	4.7	4.7	5.0	4.3	5.1
PPG-PR 424	5.7	4.7	6.3	6.0	5.3	4.7	4.7	4.3	5.1
SLUGGER 3GL (PPG-PR 343)	5.7	4.7	6.0	6.7	5.3	4.3	5.0	4.0	5.1
021	5.0	4.7	6.7	6.0	5.0	5.0	3.7	4.0	5.0
DLFPS-236/3538	5.3	5.3	6.3	6.3	4.3	4.0	4.7	4.0	5.0
DLFPS-236/3554	6.3	4.7	7.3	7.3	4.3	4.0	4.0	3.3	5.0
FASTBALL 3GL (PPG-PR 329)	6.0	4.7	6.0	6.3	5.3	5.7	3.7	3.7	5.0
MAN O WAR	5.0	4.3	5.7	6.0	5.7	5.0	4.7	4.0	5.0
MRS�-PR15	7.0	5.3	6.7	6.0	4.0	4.7	4.3	4.0	5.0
MRS�-PR16	7.0	5.0	6.7	5.7	4.7	4.7	4.3	3.7	5.0
PPG-PR 371	6.7	4.3	6.3	7.0	5.3	4.7	4.0	3.3	5.0
PPG-PR 422	5.3	4.7	6.3	6.3	5.0	4.3	4.7	3.7	5.0
PPG-PR 423	6.0	4.3	7.0	6.7	4.7	4.3	3.7	4.0	5.0
PST-2A2	5.0	5.7	6.0	6.7	5.0	3.7	4.3	3.7	5.0
RAD-PR 112	6.7	6.0	6.0	6.3	4.0	4.0	4.7	4.0	5.0
SAGUARO	5.7	5.3	6.3	6.0	4.7	3.7	5.3	3.7	5.0
SEABISCUIT	5.0	4.7	6.0	5.7	5.7	5.0	4.7	3.7	5.0
SIGNET	7.0	5.0	6.0	6.0	4.7	4.0	5.0	4.7	5.0
DLFPS-236/3542	5.3	5.7	7.0	6.3	4.0	2.7	4.7	4.0	4.9
DLFPS-236/3544	5.3	6.0	6.7	6.0	3.7	3.3	4.7	3.7	4.9
DLFPS-236/3550	6.3	4.3	6.3	5.7	5.0	5.0	4.0	3.7	4.9
PARAGON 2 GLR (FP2)	6.3	4.3	6.7	6.3	5.0	4.7	3.7	3.7	4.9
LPB-SD-102	6.0	3.3	5.3	7.0	5.0	5.0	4.7	4.0	4.9
NP-3	5.7	5.7	6.7	5.3	4.3	4.3	4.0	3.7	4.9
PPG-PR 360	6.3	5.0	7.0	5.3	4.3	4.0	4.7	4.0	4.9
PR-5-16	5.3	5.3	6.3	6.7	4.7	3.7	4.0	3.3	4.9

TABLE 18. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							
		APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
UMPQUA	6.7	4.3	6.3	5.7	5.0	5.7	3.7	3.7	4.9
023	6.0	4.7	6.3	6.0	4.7	4.3	3.7	3.7	4.8
ALLOY (RRT)	6.3	5.0	6.7	6.0	4.0	4.0	4.0	4.0	4.8
DLFPS-236/3543	6.3	5.3	6.3	7.0	3.7	3.3	4.3	3.3	4.8
DLFPS-236/3547	5.0	5.3	6.7	6.3	4.0	3.7	4.0	3.7	4.8
GO-141	6.3	4.0	6.0	5.7	4.7	5.0	4.3	3.7	4.8
GRAND SLAM GLD	6.7	4.3	6.0	6.3	4.3	4.7	4.3	3.7	4.8
HOMERUN LS (PPG-PR 419)	6.0	4.7	6.3	7.0	4.0	3.7	4.0	4.0	4.8
NP-2	6.0	5.0	6.0	6.0	4.3	4.3	4.0	3.7	4.8
PPG-PR 385	6.3	5.0	6.3	6.0	4.7	4.3	3.7	3.3	4.8
PR-6-15	6.7	5.0	7.0	6.3	4.0	3.0	4.3	4.0	4.8
ALLSTAR III	5.3	5.3	6.0	5.7	3.3	4.3	4.3	4.0	4.7
APR3060	5.7	4.7	6.7	6.7	4.0	3.7	3.7	3.3	4.7
ASP0116EXT	8.3	5.0	6.7	7.0	4.3	2.7	3.0	4.0	4.7
ASP0117 (A-PR15)	6.3	4.7	7.0	6.3	4.0	3.7	3.7	3.7	4.7
ASP0218 (A-6D)	6.3	5.0	6.7	6.3	4.0	3.7	3.7	3.7	4.7
FIREBALL (BWH)	7.3	5.7	6.0	6.3	4.3	3.7	3.7	3.0	4.7
CPN	5.0	4.3	6.0	6.0	5.0	4.3	3.7	3.7	4.7
CS-6	7.7	5.3	5.7	5.7	4.3	4.3	4.3	3.3	4.7
GO-143	6.5	6.0	6.0	6.0	3.5	3.5	4.0	4.0	4.7
GRAY HAWK (PST-2FIND)	5.7	4.7	6.0	5.3	4.0	4.3	4.7	4.0	4.7
JR-123	5.7	4.7	6.0	6.3	4.7	4.0	3.7	3.7	4.7
JR-197	6.0	5.3	6.7	5.3	4.0	3.3	4.3	4.0	4.7
LPB-SD-101	5.3	4.0	5.7	6.7	4.7	4.3	4.0	3.3	4.7
LPB-SD-104	7.0	3.0	5.0	7.0	6.3	4.7	3.3	3.3	4.7
LPB-SD-105	6.3	2.3	4.0	7.3	6.0	4.7	4.3	4.0	4.7
MENSA	5.7	3.3	5.3	6.7	5.0	4.3	4.7	3.7	4.7
PST-2EGAD	5.7	4.7	5.7	5.3	4.3	4.3	4.0	4.3	4.7
PST-2GTD	5.3	5.0	5.7	5.7	4.3	4.7	4.0	3.7	4.7
SLIDER LS (PPG-PR 241)	6.0	4.3	5.7	6.7	4.3	4.3	3.7	3.7	4.7
SR 4650	6.0	4.0	7.0	5.7	4.3	4.3	4.0	3.7	4.7
02BS2	5.3	5.7	6.3	6.3	3.7	3.0	3.7	3.3	4.6
APR2612	6.0	5.3	6.0	5.7	4.0	4.0	3.7	3.7	4.6
BAR LP 6162	6.0	5.0	6.0	5.3	4.0	4.0	4.0	4.0	4.6
DLFPS-236/3552	7.0	5.3	6.7	5.3	3.7	4.3	3.7	3.0	4.6
LPB-SD-103	6.3	4.7	6.0	5.7	4.3	4.0	4.0	3.7	4.6
PEPPER II (RAD-PR 103)	8.0	5.0	6.7	6.0	4.0	3.7	3.3	3.7	4.6
PHARAOH	5.7	5.7	6.3	6.0	3.7	3.3	3.7	3.3	4.6
GREEN SUPREME+ (AMP-R1)	7.3	4.3	5.7	5.7	5.0	4.3	3.3	3.3	4.5
APPLE 3GL (PPG-PR 339)	7.0	4.7	6.3	6.3	4.3	3.3	3.0	3.3	4.5
BAR LP 6158	5.0	5.3	6.0	5.7	3.7	3.7	3.3	3.7	4.5
KARMA	6.3	4.7	6.0	6.0	4.0	3.3	4.0	3.7	4.5
OVERDRIVE 5G	6.0	4.7	6.3	6.7	3.7	3.3	4.0	3.0	4.5
PST-2BDT	6.3	5.0	5.7	5.3	4.0	3.7	3.7	4.0	4.5
PST-2PDA	4.7	5.0	6.3	5.0	3.7	3.7	4.0	3.7	4.5
SHIELD (02BS4)	6.0	4.3	5.3	5.3	4.7	4.3	3.7	4.0	4.5
BAR LP 6233	4.7	4.0	5.7	4.7	5.0	4.3	3.3	3.7	4.4

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/
2018 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS							
		APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DERBY XTREME	7.3	3.7	5.3	6.0	4.7	4.3	3.7	3.3	4.4
DLFPS-236/3546	6.3	4.7	6.0	6.0	3.7	3.3	4.0	3.3	4.4
DLFPS-238/3014	4.3	4.3	5.0	5.3	4.3	4.0	4.3	3.7	4.4
PL2	6.0	4.7	6.3	4.7	3.7	4.0	4.0	3.3	4.4
SNX	7.3	5.0	6.0	5.3	3.7	3.7	3.3	4.0	4.4
XCELERATOR	5.7	4.3	5.0	4.7	5.0	4.0	4.3	3.3	4.4
02BS1	5.7	5.0	6.7	5.0	3.7	4.0	3.0	2.7	4.3
BAR LP 6117	6.0	5.0	6.0	5.3	3.7	3.0	3.7	3.3	4.3
BAR LP 6131	5.7	4.7	6.0	5.3	3.7	3.7	3.3	3.7	4.3
EVOLVE	5.0	5.3	6.0	4.7	4.0	3.3	3.3	3.7	4.3
JR-888	5.7	3.7	6.0	6.3	4.3	3.3	3.3	3.3	4.3
PPG-PR 367	5.7	5.0	5.7	5.7	4.0	3.0	3.3	3.7	4.3
ASP0118GL (A-4G)	7.3	4.7	6.3	5.7	3.0	2.7	3.7	3.3	4.2
GO-142	6.3	4.3	6.0	5.7	3.3	3.3	3.7	3.3	4.2
PPG-PR 372	6.7	4.0	6.3	6.7	3.3	2.7	3.3	3.3	4.2
BAR LP 6159	4.7	5.0	5.3	5.0	4.0	4.3	2.7	2.7	4.1
BRIGHTSTAR SLT	5.0	5.0	5.3	4.7	2.7	2.7	4.3	3.3	4.0
JR-747	6.3	2.3	4.3	5.7	4.0	2.7	4.0	3.3	3.8
BAR LP 6165	4.5	4.0	5.0	4.5	3.0	3.5	3.0	3.0	3.7
LINN	2.0	2.7	2.3	2.3	3.0	3.0	3.0	3.0	2.8
LSD VALUE	1.5	1.6	1.4	1.8	2.1	6.1	2.8	1.5	1.1
C.V. (%)	14.5	17.1	12.1	14.9	20.8	32.1	22.8	14.7	10.7

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 19.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
2018 DATA

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

NAME	PERCENT GROUND	GROUND	QUALITY RATINGS								MEAN
	COVER SPRING	COVER FALL	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
BAR LP 6162	99	9	7.0	8.0	8.0	7.3	7.0	7.7	7.3	7.5	
BAR LP 6165	99	9	6.7	8.0	7.3	7.3	7.3	8.0	7.3	7.4	
DLFPS-236/3548	99	9	6.7	8.0	7.7	7.7	6.7	7.7	7.3	7.4	
SEABISCUIT	99	9	7.0	8.0	7.7	8.0	6.7	7.0	7.3	7.4	
SLUGGER 3GL (PPG-PR 343)	99	9	7.3	8.0	8.0	7.7	6.3	7.3	7.3	7.4	
UMPQUA	99	9	6.3	8.0	7.7	7.7	7.0	7.7	7.3	7.4	
021	99	9	6.7	8.3	7.7	7.7	6.3	7.0	7.0	7.2	
APR2616	99	9	6.7	8.0	7.7	7.3	6.3	7.3	7.3	7.2	
DLFPS-236/3554	99	9	7.0	8.0	7.7	7.0	6.7	7.3	7.0	7.2	
DLFPS-238/3014	99	9	6.7	8.0	7.3	7.7	6.7	7.0	7.0	7.2	
MRSI-PR16	99	9	6.7	8.0	7.0	7.3	7.0	7.3	7.3	7.2	
PPG-PR 367	99	9	6.3	8.0	7.7	7.7	6.7	7.0	7.0	7.2	
APR3060	99	9	6.7	8.0	7.3	7.3	6.3	7.0	7.0	7.1	
BAR LP 6117	99	9	7.0	8.0	7.3	6.7	6.7	7.3	6.7	7.1	
BAR LP 6158	99	9	6.7	8.0	7.0	7.3	6.3	7.3	7.3	7.1	
DLFPS-236/3545	99	9	6.7	8.0	7.7	7.0	6.7	7.3	6.7	7.1	
GRAY WOLF (PST-2GAL)	99	9	7.0	8.0	7.3	7.3	6.7	6.7	6.7	7.1	
MAN O WAR	99	9	7.0	8.0	7.7	7.7	6.0	6.7	6.7	7.1	
PPG-PR 371	99	9	6.7	8.0	7.7	7.0	6.3	7.0	7.0	7.1	
PPG-PR 420	99	9	7.0	8.0	7.0	7.0	6.7	7.0	7.0	7.1	
SIGNET	99	9	6.7	8.0	7.0	7.0	6.7	7.3	7.0	7.1	
02BS1	99	9	6.3	8.0	7.0	6.7	6.7	7.0	7.0	7.0	
GREEN SUPREME+ (AMP-R1)	99	9	6.3	8.0	7.0	7.3	6.3	7.3	7.0	7.0	
ASP0116EXT	99	9	6.0	8.0	7.0	7.0	7.0	7.3	7.0	7.0	
BAR LP 6131	99	9	6.7	8.0	7.0	7.0	6.3	7.3	7.0	7.0	
BAR LP 6164	99	9	7.0	8.0	7.3	7.3	6.0	6.7	6.7	7.0	
CS-6	99	9	6.7	8.0	7.0	7.7	6.0	7.0	7.0	7.0	
DLFPS-236/3542	99	9	6.3	8.0	7.3	7.3	6.3	6.7	7.0	7.0	
DLFPS-236/3556	99	9	6.3	8.0	7.3	7.3	6.3	6.7	7.0	7.0	
PARAGON 2 GLR (FP2)	99	9	7.0	8.0	7.3	6.7	6.3	7.0	6.3	7.0	
INTENSE	99	9	6.7	8.0	8.0	7.3	6.0	6.3	6.7	7.0	
OVERDRIVE 5G	99	9	6.7	7.7	7.3	7.0	6.3	7.0	6.7	7.0	
PARADOX GLR (PPG-PR 331)	99	9	7.0	8.0	7.7	7.3	6.0	6.7	6.7	7.0	
PPG-PR 385	99	9	7.0	8.0	7.0	7.0	6.3	6.7	6.7	7.0	
PR-5-16	99	9	7.0	8.0	7.3	7.3	6.3	6.3	6.3	7.0	
PR-6-15	99	9	6.3	8.0	7.0	7.3	6.3	7.3	7.0	7.0	
PST-2EGAD	99	9	6.0	8.0	7.0	6.7	7.0	7.0	7.0	7.0	
PST-2FOXY	99	9	6.3	8.0	7.0	6.7	6.7	7.0	7.0	7.0	
PST-2GTD	99	9	6.7	8.0	7.3	7.0	6.0	7.0	6.7	7.0	
SILVER SPORT (PST-2CRP)	99	9	7.0	8.0	7.3	7.0	6.3	7.0	6.7	7.0	
023	99	9	7.0	8.0	7.0	7.3	6.0	6.3	6.7	6.9	
ALLOY (RRT)	99	9	7.0	8.0	7.0	7.0	6.0	6.3	6.7	6.9	
BAR LP 6159	99	9	6.7	8.0	7.0	7.3	6.0	6.7	6.7	6.9	
DLFPS-236/3538	99	9	7.0	8.0	7.0	6.7	6.3	6.7	6.3	6.9	
DLFPS-236/3550	99	9	7.0	8.0	7.0	7.0	6.0	6.7	6.7	6.9	
EVOLVE	99	9	6.3	8.0	7.0	6.7	6.7	7.0	6.7	6.9	
GO-141	99	9	6.7	8.0	7.0	7.0	6.3	6.7	6.7	6.9	

TABLE 19. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND	GROUND	QUALITY RATINGS								MEAN
	COVER SPRING	COVER FALL	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
GO-143	99	9.0	6.3	8	7.0	7.3	6.3	6.7	6.7	6.9	
HOMERUN LS (PPG-PR 419)	99	9.0	6.7	8	7.0	6.7	6.0	7.0	6.7	6.9	
JR-123	99	9.0	6.7	8	7.0	7.3	6.3	6.3	6.7	6.9	
JR-197	99	9.0	6.7	8	7.3	7.3	6.0	6.3	6.3	6.9	
PEPPER II (RAD-PR 103)	99	9.0	6.3	8	7.0	6.7	6.7	7.0	6.7	6.9	
PPG-PR 370	99	9.0	6.7	8	7.3	6.7	6.0	7.0	6.7	6.9	
PPG-PR 372	99	9.0	6.7	8	7.7	6.7	6.0	6.7	6.7	6.9	
PPG-PR 421	99	9.0	6.7	8	7.3	7.0	5.7	6.7	6.7	6.9	
PPG-PR 424	99	9.0	6.7	8	7.3	6.7	6.3	6.7	6.7	6.9	
PST-2PDA	99	9.0	7.0	8	7.0	7.0	6.3	6.3	6.3	6.9	
SHIELD (02BS4)	99	9.0	6.3	8	7.3	7.0	6.3	6.7	6.7	6.9	
SNX	99	9.0	6.3	8	7.0	6.7	6.3	7.0	6.7	6.9	
SR 4650	99	9.0	6.7	8	7.3	6.7	6.3	6.7	6.7	6.9	
02BS2	99	9.0	6.0	8	7.3	7.3	6.0	6.3	6.7	6.8	
ASP0118GL (A-4G)	99	9.0	6.3	8	7.3	7.3	5.7	6.3	6.3	6.8	
BRIGHTSTAR SLT	99	9.0	6.3	8	7.0	7.0	5.7	6.7	6.7	6.8	
DERBY XTREME	99	9.0	6.7	8	7.3	7.0	5.7	6.3	6.3	6.8	
DLFPS-236/3544	99	9.0	7.0	8	7.0	6.7	6.3	6.3	6.3	6.8	
DLFPS-236/3547	99	9.0	6.3	8	7.3	6.7	6.3	6.7	6.3	6.8	
NP-2	99	9.0	6.3	8	7.7	7.0	5.7	6.3	6.3	6.8	
NP-3	99	9.0	6.3	8	7.3	6.3	6.3	6.7	6.7	6.8	
PPG-PR 422	99	9.0	7.0	8	7.7	7.0	5.7	6.0	6.3	6.8	
PPG-PR 423	99	9.0	6.7	8	7.7	6.7	6.0	6.3	6.0	6.8	
XCELERATOR	99	9.0	6.3	8	7.3	7.3	5.7	6.3	6.7	6.8	
ASP0117 (A-PR15)	99	9.0	5.7	8	7.0	6.7	6.3	7.0	6.3	6.7	
CPN	99	9.0	6.7	8	7.3	6.7	6.0	6.3	6.0	6.7	
DLFPS-236/3540	99	9.0	6.7	8	7.0	6.7	6.0	6.3	6.3	6.7	
DLFPS-236/3541	99	8.7	7.0	8	7.0	6.7	6.0	6.3	6.0	6.7	
DLFPS-236/3546	99	9.0	6.7	8	7.0	6.3	6.0	6.7	6.3	6.7	
DLFPS-236/3552	99	9.0	7.0	8	7.3	6.7	6.0	6.0	6.0	6.7	
DLFPS-236/3553	99	9.0	7.0	8	7.3	6.0	6.0	6.3	6.3	6.7	
FURLONG (LTP-FCB)	99	9.0	6.7	8	7.7	7.0	5.3	6.0	6.3	6.7	
GO-142	99	9.0	6.7	8	7.0	7.0	5.7	6.3	6.3	6.7	
GRAY HAWK (PST-2FIND)	99	9.0	6.0	8	7.0	7.0	6.0	6.3	6.7	6.7	
PL2	99	9.0	6.7	8	7.0	6.7	6.0	6.3	6.3	6.7	
PST-2A2	99	9.0	6.7	8	7.3	6.0	6.0	6.7	6.3	6.7	
RAD-PR 112	99	9.0	7.0	8	7.0	6.0	6.0	6.7	6.0	6.7	
SLIDER LS (PPG-PR 241)	99	9.0	6.3	8	7.3	6.7	5.7	6.3	6.3	6.7	
SPIKE GLS (UF3)	99	9.0	6.0	8	7.0	6.7	5.7	6.7	6.7	6.7	
APPLE 3GL (PPG-PR 339)	99	9.0	6.0	8	7.3	7.0	5.7	6.0	6.0	6.6	
ASP0218 (A-6D)	99	9.0	6.7	8	7.0	6.7	6.0	5.7	6.3	6.6	
BAR LP 6233	99	9.0	6.3	8	7.0	6.7	6.0	6.0	6.3	6.6	
FASTBALL 3GL (PPG-PR 329)	99	9.0	6.3	8	7.3	6.7	5.7	6.0	6.0	6.6	
PHARAOH	99	9.0	6.0	8	7.7	6.7	5.3	6.3	6.3	6.6	
PPG-PR 360	99	8.7	7.0	8	7.7	6.7	5.3	5.7	5.7	6.6	
PST-2BDT	99	9.0	6.7	8	7.0	6.3	5.7	6.3	6.0	6.6	
APR2612	99	8.7	6.3	8	7.0	6.3	5.7	6.0	6.0	6.5	

TABLE 19. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
 2018 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND	GROUND	QUALITY RATINGS							
	COVER SPRING	COVER FALL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
GRAND SLAM GLD	99.0	9.0	6.7	8.0	7.0	6.3	5.7	6.0	6.0	6.5
JR-888	99.0	9.0	6.7	8.0	7.3	6.7	5.3	5.7	5.7	6.5
PST-2MAY	99.0	9.0	6.0	8.0	7.0	6.7	5.7	6.0	6.0	6.5
SAGUARO	99.0	9.0	7.0	8.0	7.0	6.0	5.3	6.0	6.0	6.5
DLFPS-236/3543	99.0	8.7	6.7	8.0	7.0	6.0	5.7	5.7	5.7	6.4
KARMA	99.0	8.7	7.3	8.0	7.0	6.0	5.3	5.3	5.7	6.4
MRSI-PR15	99.0	8.7	6.3	8.0	6.7	6.7	5.3	5.7	6.0	6.4
TEE-ME-UP (BSP-25)	99.0	9.0	6.0	7.3	7.0	6.0	5.7	6.3	6.0	6.3
LPB-SD-101	99.0	9.0	6.7	8.0	7.0	6.7	5.3	5.3	5.0	6.3
ALLSTAR III	99.0	9.0	6.3	8.0	6.7	5.7	5.3	5.7	5.3	6.1
FIREBALL (BWH)	99.0	8.7	6.0	7.3	6.7	6.3	5.3	5.3	5.7	6.1
JR-747	99.0	8.7	6.7	7.7	6.7	5.7	5.0	5.7	5.7	6.1
LPB-SD-103	99.0	8.7	7.0	8.0	7.0	6.0	4.3	4.7	5.0	6.0
MENSA	99.0	9.0	6.7	8.0	7.0	6.3	4.3	4.7	5.3	6.0
HATRICK (BSP-17)	87.7	8.0	5.3	6.7	6.0	6.7	5.0	5.3	5.7	5.8
LPB-SD-102	99.0	8.7	6.3	8.0	7.0	5.7	4.3	4.7	4.7	5.8
SAVANT	99.0	8.3	6.7	8.0	7.0	5.7	4.7	4.3	4.3	5.8
LPB-SD-104	99.0	8.3	6.3	7.0	6.0	5.3	4.3	4.7	4.7	5.5
LPB-SD-105	99.0	8.0	6.3	8.0	6.7	5.0	3.7	4.3	4.3	5.5
LINN	97.7	6.7	5.0	4.3	3.7	2.7	3.3	3.7	3.3	3.7
LSD VALUE	8.3	0.6	1.9	0.5	0.9	1.6	1.5	1.6	1.6	0.9
C.V. (%)	1.9	3.5	8.9	4.1	7.0	11.6	13.1	13.4	12.7	7.5

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

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

TABLE 20.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG (TRAFFIC STUDY), VA 1/
2018 DATA

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

NAME	MAY	QUALITY RATINGS				MEAN	PERCENT	QUALITY	PERCENT	QUALITY	PERCENT	QUALITY
		JUN	JUL	AUG	COVER GROUND PRE- TRAFFIC		MID- TRAFFIC	COVER GROUND POST TRAFFIC	POST TRAFFIC	COVER GROUND 2 WKS POST TRAFFIC	POST TRAFFIC	
021	6.7	8.3	7.7	7.7	7.6	99	8.0	99	7	99	7	
023	7.0	8.0	7.0	7.3	7.3	99	7.0	99	7	99	7	
02BS1	6.3	8.0	7.0	6.7	7.0	99	7.0	99	7	99	7	
02BS2	6.0	8.0	7.3	7.3	7.2	99	7.0	99	7	99	7	
GREEN SUPREME+ (AMP-R1)	6.3	8.0	7.0	7.3	7.2	99	7.7	99	7	99	7	
APPLE 3GL (PPG-PR 339)	6.0	8.0	7.3	7.0	7.1	99	7.0	99	7	99	7	
APR3060	6.7	8.0	7.3	7.3	7.3	99	7.3	99	7	99	7	
ASP0116EXT	6.0	8.0	7.0	7.0	7.0	99	7.3	99	7	99	7	
ASP0117 (A-PR15)	5.7	8.0	7.0	6.7	6.8	99	7.3	99	7	99	7	
ASP0118GL (A-4G)	6.3	8.0	7.3	7.3	7.3	99	7.3	99	7	99	7	
BAR LP 6117	7.0	8.0	7.3	6.7	7.3	99	7.3	99	7	99	7	
BAR LP 6131	6.7	8.0	7.0	7.0	7.2	99	7.3	99	7	99	7	
BAR LP 6158	6.7	8.0	7.0	7.3	7.3	99	7.3	99	7	99	7	
BAR LP 6159	6.7	8.0	7.0	7.3	7.3	99	7.3	99	7	99	7	
BAR LP 6162	7.0	8.0	8.0	7.3	7.6	99	7.7	99	7	99	7	
BAR LP 6164	7.0	8.0	7.3	7.3	7.4	99	7.3	99	7	99	7	
BAR LP 6165	6.7	8.0	7.3	7.3	7.3	99	8.0	99	7	99	7	
CPN	6.7	8.0	7.3	6.7	7.2	99	7.0	99	7	99	7	
CS-6	6.7	8.0	7.0	7.7	7.3	99	7.7	99	7	99	7	
DERBY XTREME	6.7	8.0	7.3	7.0	7.3	99	7.0	99	7	99	7	
DLFPS-236/3538	7.0	8.0	7.0	6.7	7.2	99	7.0	99	7	99	7	
DLFPS-236/3542	6.3	8.0	7.3	7.3	7.3	99	7.0	99	7	99	7	
DLFPS-236/3545	6.7	8.0	7.7	7.0	7.3	99	7.7	99	7	99	7	
DLFPS-236/3547	6.3	8.0	7.3	6.7	7.1	99	7.0	99	7	99	7	
DLFPS-236/3548	6.7	8.0	7.7	7.7	7.5	99	8.0	99	7	99	7	
DLFPS-236/3550	7.0	8.0	7.0	7.0	7.3	99	7.0	99	7	99	7	
DLFPS-236/3556	6.3	8.0	7.3	7.3	7.3	99	7.0	99	7	99	7	
DLFPS-238/3014	6.7	8.0	7.3	7.7	7.4	99	7.7	99	7	99	7	
PARAGON 2 GLR (FP2)	7.0	8.0	7.3	6.7	7.3	99	7.3	99	7	99	7	
GO-141	6.7	8.0	7.0	7.0	7.2	99	7.0	99	7	99	7	
GO-142	6.7	8.0	7.0	7.0	7.2	99	7.0	99	7	99	7	
GO-143	6.3	8.0	7.0	7.3	7.2	99	7.3	99	7	99	7	
GRAY WOLF (PST-2GAL)	7.0	8.0	7.3	7.3	7.4	99	7.3	99	7	99	7	
HOMERUN LS (PPG-PR 419)	6.7	8.0	7.0	6.7	7.1	99	7.0	99	7	99	7	
JR-123	6.7	8.0	7.0	7.3	7.3	99	7.0	99	7	99	7	
JR-197	6.7	8.0	7.3	7.3	7.3	99	7.3	99	7	99	7	
MAN O WAR	7.0	8.0	7.7	7.7	7.6	99	7.7	99	7	99	7	
MRSI-PR16	6.7	8.0	7.0	7.3	7.3	99	7.3	99	7	99	7	
NP-2	6.3	8.0	7.7	7.0	7.3	99	7.0	99	7	99	7	
OVERDRIVE 5G	6.7	7.7	7.3	7.0	7.2	99	7.3	99	7	99	7	
PARADOX GLR (PPG-PR 331)	7.0	8.0	7.7	7.3	7.5	99	7.3	99	7	99	7	
PPG-PR 367	6.3	8.0	7.7	7.7	7.4	99	7.7	99	7	99	7	
PPG-PR 370	6.7	8.0	7.3	6.7	7.2	99	7.0	99	7	99	7	
PPG-PR 371	6.7	8.0	7.7	7.0	7.3	99	7.0	99	7	99	7	
PPG-PR 385	7.0	8.0	7.0	7.0	7.3	99	7.0	99	7	99	7	
PPG-PR 420	7.0	8.0	7.0	7.0	7.3	99	7.0	99	7	99	7	
PPG-PR 421	6.7	8.0	7.3	7.0	7.3	99	7.0	99	7	99	7	

TABLE 20.
(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/
2018 DATA

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

NAME	QUALITY RATINGS					MEAN	PERCENT	PERCENT	PERCENT	QUALITY	QUALITY
	MAY	JUN	JUL	AUG	GROUND		GROUND	GROUND			
						COVER	COVER	COVER	POST	POST	POST
						PRE-	MID-	POST	TRAFFIC	TRAFFIC	TRAFFIC
						TRAFFIC	TRAFFIC	TRAFFIC			
PPG-PR 424	6.7	8.0	7.3	6.7	7.2	99	7.0	99.0	7.0	99.0	7.0
PR-5-16	7.0	8.0	7.3	7.3	7.4	99	7.3	99.0	7.0	99.0	7.0
PR-6-15	6.3	8.0	7.0	7.3	7.2	99	7.7	99.0	7.0	99.0	7.0
PST-2EGAD	6.0	8.0	7.0	6.7	6.9	99	7.0	99.0	7.0	99.0	7.0
PST-2FOXY	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	7.0	99.0	7.0
PST-2GTD	6.7	8.0	7.3	7.0	7.3	99	7.3	99.0	7.0	99.0	7.0
PST-2PDA	7.0	8.0	7.0	7.0	7.3	99	7.0	99.0	7.0	99.0	7.0
SEABISCUIT	7.0	8.0	7.7	8.0	7.7	99	7.7	99.0	7.0	99.0	7.0
SIGNET	6.7	8.0	7.0	7.0	7.2	99	7.3	99.0	7.0	99.0	7.0
SILVER SPORT (PST-2CRP)	7.0	8.0	7.3	7.0	7.3	99	7.3	99.0	7.0	99.0	7.0
SLUGGER 3GL (PPG-PR 343)	7.3	8.0	8.0	7.7	7.8	99	7.7	99.0	7.0	99.0	7.0
SNX	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	7.0	99.0	7.0
UMPQUA	6.3	8.0	7.7	7.7	7.4	99	8.0	99.0	7.0	99.0	7.0
ALLOY (RRT)	7.0	8.0	7.0	7.0	7.3	99	6.7	99.0	6.7	99.0	6.7
APR2616	6.7	8.0	7.7	7.3	7.4	99	7.3	99.0	6.7	99.0	6.7
BRIGHTSTAR SLT	6.3	8.0	7.0	7.0	7.1	99	7.0	99.0	6.7	99.0	6.7
DLFPS-236/3540	6.7	8.0	7.0	6.7	7.1	99	6.7	99.0	6.7	99.0	6.7
DLFPS-236/3541	7.0	8.0	7.0	6.7	7.2	99	6.7	94.3	6.3	96.0	6.7
DLFPS-236/3544	7.0	8.0	7.0	6.7	7.2	99	6.7	99.0	6.7	99.0	6.7
DLFPS-236/3552	7.0	8.0	7.3	6.7	7.3	99	6.7	99.0	6.7	99.0	6.7
DLFPS-236/3554	7.0	8.0	7.7	7.0	7.4	99	7.3	99.0	6.7	99.0	6.7
EVOLVE	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	6.7	99.0	6.7
FASTBALL 3GL (PPG-PR 329)	6.3	8.0	7.3	6.7	7.1	99	6.7	99.0	6.7	99.0	6.7
FURLONG (LTP-FCB)	6.7	8.0	7.7	7.0	7.3	99	6.7	99.0	6.7	99.0	6.7
GRAY HAWK (PST-2FIND)	6.0	8.0	7.0	7.0	7.0	99	6.7	99.0	6.7	99.0	6.7
INTENSE	6.7	8.0	8.0	7.3	7.5	99	7.0	99.0	6.7	99.0	6.7
NP-3	6.3	8.0	7.3	6.3	7.0	99	6.7	99.0	6.7	99.0	6.7
PEPPER II (RAD-PR 103)	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	6.7	99.0	6.7
PHARAOH	6.0	8.0	7.7	6.7	7.1	99	6.7	99.0	6.7	99.0	6.7
PPG-PR 372	6.7	8.0	7.7	6.7	7.3	99	6.7	99.0	6.7	99.0	6.7
PPG-PR 422	7.0	8.0	7.7	7.0	7.4	99	6.7	99.0	6.7	99.0	6.7
PPG-PR 423	6.7	8.0	7.7	6.7	7.3	99	7.0	99.0	6.7	99.0	6.7
PST-2BDT	6.7	8.0	7.0	6.3	7.0	99	6.7	99.0	6.7	99.0	6.7
PST-2MAY	6.0	8.0	7.0	6.7	6.9	99	6.7	99.0	6.7	99.0	6.7
RAD-PR 112	7.0	8.0	7.0	6.0	7.0	99	6.7	99.0	6.7	99.0	6.7
SHIELD (02BS4)	6.3	8.0	7.3	7.0	7.2	99	7.0	99.0	6.7	99.0	6.7
SR 4650	6.7	8.0	7.3	6.7	7.2	99	6.7	99.0	6.7	99.0	6.7
XCELERATOR	6.3	8.0	7.3	7.3	7.3	99	7.0	99.0	6.7	99.0	6.7
APR2612	6.3	8.0	7.0	6.3	6.9	99	6.3	94.3	6.3	96.0	6.3
ASP0218 (A-6D)	6.7	8.0	7.0	6.7	7.1	99	6.3	99.0	6.3	99.0	6.3
BAR LP 6233	6.3	8.0	7.0	6.7	7.0	99	6.3	99.0	6.3	99.0	6.3
TEE-ME-UP (BSP-25)	6.0	7.3	7.0	6.0	6.6	99	6.3	97.7	6.3	97.7	6.3
DLFPS-236/3546	6.7	8.0	7.0	6.3	7.0	99	6.7	99.0	6.3	99.0	6.3
DLFPS-236/3553	7.0	8.0	7.3	6.0	7.1	99	6.3	99.0	6.3	99.0	6.3
GRAND SLAM GLD	6.7	8.0	7.0	6.3	7.0	99	6.3	99.0	6.3	99.0	6.3
JR-888	6.7	8.0	7.3	6.7	7.2	99	6.3	99.0	6.3	99.0	6.3
LPB-SD-101	6.7	8.0	7.0	6.7	7.1	99	6.3	99.0	6.0	99.0	6.3

TABLE 20.
(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/
2018 DATA

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

NAME	QUALITY RATINGS					MEAN	PERCENT GROUND COVER		PERCENT GROUND COVER		PERCENT GROUND COVER	
	MAY	JUN	JUL	AUG	PRE-TRAFFIC		MID-TRAFFIC	POST-TRAFFIC	POST-TRAFFIC	2 WKS POST-TRAFFIC	POST-TRAFFIC	
MRSI-PR15	6.3	8.0	6.7	6.7	6.9	99.0	6.3	94.3	6.3	94.3	6.3	
PL2	6.7	8.0	7.0	6.7	7.1	99.0	6.7	99.0	6.3	99.0	6.3	
PPG-PR 360	7.0	8.0	7.7	6.7	7.3	99.0	6.7	97.7	6.3	96.0	6.3	
PST-2A2	6.7	8.0	7.3	6.0	7.0	99.0	6.7	99.0	6.3	99.0	6.3	
SLIDER LS (PPG-PR 241)	6.3	8.0	7.3	6.7	7.1	99.0	6.7	99.0	6.3	99.0	6.3	
SPIKE GLS (UF3)	6.0	8.0	7.0	6.7	6.9	99.0	6.7	99.0	6.3	99.0	6.3	
ALLSTAR III	6.3	8.0	6.7	5.7	6.7	99.0	6.0	99.0	6.0	99.0	6.0	
HATRICK (BSP-17)	5.3	6.7	6.0	6.7	6.2	87.7	6.3	87.7	6.0	87.7	6.0	
FIREBALL (BWH)	6.0	7.3	6.7	6.3	6.6	99.0	6.0	94.3	6.0	94.3	6.0	
DLFPS-236/3543	6.7	8.0	7.0	6.0	6.9	99.0	6.0	97.7	6.0	97.7	6.0	
SAGUARO	7.0	8.0	7.0	6.0	7.0	99.0	6.0	99.0	6.0	99.0	6.0	
JR-747	6.7	7.7	6.7	5.7	6.7	99.0	5.7	94.3	5.7	94.3	5.7	
KARMA	7.3	8.0	7.0	6.0	7.1	99.0	5.7	96.0	5.7	96.0	5.7	
LPB-SD-102	6.3	8.0	7.0	5.7	6.8	99.0	5.7	97.7	5.7	96.0	5.7	
LPB-SD-103	7.0	8.0	7.0	6.0	7.0	99.0	5.7	96.0	5.7	94.3	5.7	
MENSA	6.7	8.0	7.0	6.3	7.0	99.0	5.7	99.0	5.7	97.7	5.7	
LPB-SD-104	6.3	7.0	6.0	5.3	6.2	99.0	5.3	88.0	5.3	86.3	5.3	
SAVANT	6.7	8.0	7.0	5.7	6.8	99.0	5.3	85.0	5.3	86.7	5.3	
LPB-SD-105	6.3	8.0	6.7	5.0	6.5	99.0	5.0	86.7	5.0	86.7	5.0	
LINN	5.0	4.3	3.7	2.7	3.9	97.7	3.7	76.7	3.7	73.3	3.7	
LSD VALUE	1.9	0.5	0.9	1.6	0.7	8.3	1.3	6.4	1.0	5.9	1.0	
C.V. (%)	8.9	4.1	7.0	11.6	5.6	1.9	10.5	3.5	8.4	3.5	8.3	

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

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

TABLE 21.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON, WI 1/
 2018 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS						MEAN
	MAY	JUN	AUG	SEP	OCT	NOV	
DLFPS-236/3556	2.3	3.3	3.3	3.7	4.7	4.7	3.7
PPG-PR 360	2.3	4.3	3.7	3.7	4.0	4.0	3.7
ASP0218 (A-6D)	2.7	4.3	4.0	3.3	4.0	3.3	3.6
DLFPS-238/3014	2.7	4.3	4.3	3.3	3.3	3.3	3.6
PL2	2.3	4.3	3.7	3.3	3.7	4.0	3.6
PPG-PR 423	1.7	4.0	4.7	3.7	4.0	3.7	3.6
PPG-PR 424	2.3	4.7	3.7	3.7	3.7	3.7	3.6
PST-2A2	1.3	4.3	3.7	4.0	4.3	3.7	3.6
ASP0117 (A-PR15)	2.3	3.3	3.7	3.7	4.3	3.7	3.5
NP-3	2.0	3.3	4.0	3.7	3.7	4.3	3.5
O2BS2	2.0	3.7	3.3	4.0	3.7	3.7	3.4
BAR LP 6131	2.0	4.7	4.7	2.7	3.3	3.3	3.4
BAR LP 6164	3.0	4.0	3.7	3.0	3.7	3.3	3.4
DLFPS-236/3554	1.7	4.7	3.3	3.3	3.7	3.7	3.4
NP-2	2.0	3.0	3.3	4.0	4.0	4.3	3.4
PPG-PR 367	2.0	4.0	3.0	4.0	4.0	3.7	3.4
PPG-PR 385	2.0	3.7	4.0	3.7	3.3	3.7	3.4
PPG-PR 421	2.3	3.7	3.3	3.7	3.7	4.0	3.4
PR-6-15	2.0	3.7	3.7	3.3	4.0	3.7	3.4
O21	2.3	3.7	3.0	3.7	3.7	3.3	3.3
BAR LP 6233	2.3	4.0	3.7	3.3	3.3	3.3	3.3
DLFPS-236/3545	1.3	3.7	3.0	4.0	4.0	4.0	3.3
EVOLVE	2.3	4.0	3.7	3.3	3.3	3.3	3.3
INTENSE	2.3	4.0	4.0	3.0	3.3	3.3	3.3
MRSL-PR15	2.3	4.0	3.3	3.0	3.7	3.3	3.3
PST-2GTD	2.7	3.7	3.3	2.7	3.7	3.7	3.3
SAGUARO	2.0	3.7	3.3	3.7	3.3	4.0	3.3
SILVER SPORT (PST-2CRP)	1.7	4.3	3.7	3.3	3.3	3.7	3.3
SLIDER LS (PPG-PR 241)	2.0	3.7	3.3	3.3	3.7	3.7	3.3
XCELERATOR	1.7	3.7	4.0	3.3	3.7	3.7	3.3
O23	1.7	3.7	3.0	3.3	3.7	3.7	3.2
ALLSTAR III	2.0	4.7	3.7	3.0	3.0	3.0	3.2
APR2612	2.0	3.7	3.3	3.0	3.3	3.7	3.2
BRIGHTSTAR SLT	2.0	4.3	4.0	2.7	3.0	3.0	3.2
HATRICK (BSP-17)	3.3	4.3	3.0	2.7	3.0	2.7	3.2
CS-6	2.0	4.0	3.7	2.7	3.3	3.3	3.2
DLFPS-236/3541	2.0	3.7	3.0	3.3	3.7	3.3	3.2
DLFPS-236/3552	2.0	4.0	3.3	3.0	3.0	4.0	3.2
JR-197	1.7	3.7	3.7	3.3	3.7	3.3	3.2
KARMA	2.0	3.3	4.0	3.0	3.7	3.3	3.2
MRSL-PR16	2.3	4.0	3.3	3.0	3.7	3.0	3.2
PARADOX GLR (PPG-PR 331)	2.0	3.7	3.7	3.3	3.7	3.0	3.2
PPG-PR 422	1.7	3.7	3.3	3.3	3.7	3.3	3.2
PR-5-16	1.7	3.3	3.3	3.0	4.0	3.7	3.2
O2BS1	2.0	3.7	3.0	3.0	3.3	3.3	3.1
APR2616	1.7	3.7	4.0	3.3	3.0	3.0	3.1
APR3060	2.0	3.7	3.3	3.0	3.3	3.0	3.1

TABLE 21.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON, WI 1/
2018 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS						MEAN
	MAY	JUN	AUG	SEP	OCT	NOV	
BAR LP 6158	2.3	4.0	3.0	3.3	3.0	3.0	3.1
TEE-ME-UP (BSP-25)	2.3	3.7	3.0	2.7	3.3	3.3	3.1
FIREBALL (BWH)	2.7	4.0	2.7	3.3	3.0	3.0	3.1
DLFPS-236/3538	1.7	3.7	4.3	2.7	3.0	3.0	3.1
DLFPS-236/3540	2.0	4.0	3.3	3.3	3.3	2.7	3.1
DLFPS-236/3544	2.0	3.0	3.0	3.3	3.7	3.7	3.1
DLFPS-236/3548	1.7	4.0	3.0	3.3	3.0	3.7	3.1
GO-141	2.3	3.7	3.3	2.7	3.0	3.3	3.1
OVERDRIVE 5G	2.0	3.3	3.3	3.0	3.3	3.7	3.1
PST-2EGAD	2.7	3.7	3.3	2.7	3.7	2.7	3.1
PST-2FOXY	2.0	3.7	3.7	3.0	3.3	3.0	3.1
PST-2PDA	2.3	3.3	3.0	3.0	3.7	3.0	3.1
SPIKE GLS (UF3)	2.0	3.3	3.0	3.3	3.3	3.3	3.1
APPLE 3GL (PPG-PR 339)	1.7	3.7	3.0	3.0	3.3	3.3	3.0
BAR LP 6117	2.7	3.7	3.7	2.7	2.7	2.7	3.0
DLFPS-236/3543	2.0	3.0	3.0	3.3	3.7	3.0	3.0
DLFPS-236/3553	1.7	3.0	3.0	3.7	3.3	3.3	3.0
FURLONG (LTP-FCB)	1.7	3.3	3.0	3.0	3.7	3.3	3.0
PPG-PR 370	2.0	3.3	2.7	3.0	3.3	3.7	3.0
PPG-PR 371	1.3	3.7	3.7	3.3	3.3	2.7	3.0
SAVANT	1.3	3.7	3.3	3.0	3.3	3.3	3.0
SIGNET	1.7	3.0	3.3	3.0	3.3	3.7	3.0
ALLOY (RRT)	1.7	3.3	3.0	2.7	3.3	3.3	2.9
BAR LP 6165	2.0	3.0	3.7	3.7	2.3	3.0	2.9
DERBY XTREME	2.3	3.7	3.3	2.3	3.3	2.3	2.9
DLFPS-236/3542	1.7	3.3	3.0	3.0	3.3	3.0	2.9
FASTBALL 3GL (PPG-PR 329)	2.0	4.0	3.3	3.0	2.7	2.7	2.9
HOMERUN LS (PPG-PR 419)	1.7	3.3	3.3	3.0	3.0	3.3	2.9
PHARAOH	1.7	3.0	3.7	2.7	2.7	3.7	2.9
PPG-PR 372	1.7	3.7	3.0	3.3	2.7	3.3	2.9
PPG-PR 420	2.0	3.7	3.3	2.7	2.7	3.0	2.9
PST-2MAY	1.3	3.7	3.7	3.0	3.0	3.0	2.9
UMPQUA	2.0	3.0	3.0	3.0	3.3	3.3	2.9
ASP0118GL (A-4G)	2.3	3.3	3.0	2.3	3.0	2.7	2.8
BAR LP 6159	2.0	3.7	3.3	2.3	2.7	2.7	2.8
DLFPS-236/3547	1.7	2.7	2.3	3.3	3.3	3.3	2.8
DLFPS-236/3550	2.0	3.3	3.0	2.7	3.0	3.0	2.8
GO-142	1.3	4.0	3.7	2.7	2.7	2.7	2.8
GRAY HAWK (PST-2FIND)	1.7	3.3	3.3	3.0	3.0	2.7	2.8
GRAY WOLF (PST-2GAL)	1.3	3.3	2.3	3.0	3.7	3.0	2.8
MAN O WAR	1.7	3.0	2.7	3.0	3.0	3.7	2.8
PEPPER II (RAD-PR 103)	2.0	3.3	3.0	2.7	3.0	2.7	2.8
PST-2BDT	1.7	3.3	3.0	2.7	3.0	3.0	2.8
SEABISCUIT	2.0	3.0	3.0	2.7	3.0	3.0	2.8
SHIELD (02BS4)	2.3	3.3	3.0	2.7	3.0	2.7	2.8
ASP0116EXT	2.7	3.3	2.7	2.3	2.7	2.3	2.7
CPN	1.7	3.7	3.3	2.3	2.7	2.3	2.7

TABLE 21.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON, WI 1/
2018 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS						MEAN
	MAY	JUN	AUG	SEP	OCT	NOV	
DLFPS-236/3546	1.3	2.3	2.7	3.0	3.3	3.3	2.7
PARAGON 2 GLR (FP2)	1.7	3.0	2.3	3.3	3.0	3.0	2.7
GRAND SLAM GLD	1.3	3.3	3.0	3.0	2.3	3.0	2.7
LPB-SD-103	1.3	3.3	2.7	3.0	3.3	2.7	2.7
BAR LP 6162	2.7	3.3	3.0	2.0	2.3	2.0	2.6
MENSA	1.7	3.0	3.0	2.7	2.7	2.7	2.6
RAD-PR 112	2.0	3.7	3.0	2.3	2.3	2.3	2.6
GREEN SUPREME+ (AMP-R1)	1.7	3.3	2.3	2.7	2.3	2.7	2.5
SLUGGER 3GL (PPG-PR 343)	1.3	2.7	2.7	2.7	2.7	3.0	2.5
SNX	2.0	2.7	2.3	2.3	2.7	3.0	2.5
GO-143	2.0	3.0	2.7	2.0	2.3	2.3	2.4
JR-888	1.3	2.3	2.3	2.7	3.0	3.0	2.4
SR 4650	1.3	2.7	2.7	2.7	2.7	2.7	2.4
LPB-SD-101	1.0	2.3	2.3	2.3	2.7	3.0	2.3
JR-123	1.7	2.0	2.3	2.3	2.3	2.7	2.2
LPB-SD-102	1.0	2.3	2.3	2.0	3.0	2.3	2.2
LINN	1.3	2.3	2.3	2.3	2.0	2.0	2.1
LPB-SD-104	1.0	2.0	2.0	2.0	2.0	2.3	1.9
LPB-SD-105	1.0	2.0	2.0	2.0	1.7	2.0	1.8
JR-747	1.0	1.7	1.7	1.7	1.7	2.3	1.7
LSD VALUE	1.3	2.5	3.3	1.7	2.4	1.5	1.6
C.V. (%)	30.5	25.0	27.5	22.8	25.5	21.0	19.1

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.