

TABLE 1. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT FRESNO, CA 1/ 2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SEEDLING VIGOR	QUALITY DEC 2016	QUALITY RATINGS												MEAN	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
BAR LP 6164	6.7	7.3	7.3	6.7	6.7	6.7	6.7	7.3	5.7	5.3	5.7	8.7	8.3	7.7	8.0	7.0
MAN O WAR	7.3	8.0	8.0	7.7	8.0	7.0	7.3	5.3	5.3	5.3	7.3	7.7	7.3	8.0	7.0	7.0
PPG-PR 339	7.7	8.3	7.3	7.0	7.7	7.7	6.0	4.7	5.0	5.3	8.3	8.0	7.7	7.7	6.9	6.9
O2BS1	6.3	7.0	7.7	7.7	7.7	7.3	6.7	4.3	4.3	4.7	7.7	8.0	7.7	7.3	6.8	6.8
APR3060	6.0	8.0	7.3	6.7	7.0	6.7	6.3	4.7	4.7	5.3	8.7	8.3	8.0	7.7	6.8	6.8
PPG-PR 371	6.3	7.7	7.3	7.3	7.3	6.7	6.3	4.3	4.3	5.0	8.3	8.3	8.3	7.3	6.8	6.8
GRAY HAWK (PST-2FIND)	7.0	7.7	7.7	7.7	8.0	7.0	6.3	4.7	4.0	5.0	8.3	8.3	7.3	7.7	6.8	6.8
SAVANT	6.0	7.0	7.0	7.3	7.0	6.7	6.3	5.0	4.7	5.0	7.3	8.0	8.0	8.7	6.8	6.8
O2BS2	6.0	7.0	7.0	7.0	7.0	6.0	6.0	4.7	5.0	5.0	8.0	8.3	8.3	8.3	6.7	6.7
PPG-PR 422	7.3	5.7	8.0	7.7	8.0	7.3	6.3	4.3	3.7	5.0	7.3	8.0	7.7	6.7	6.7	6.7
GRAY WOLF (PST-2GAL)	6.0	7.0	6.7	6.7	6.7	5.7	6.3	5.0	4.7	5.0	8.7	8.7	8.3	7.7	6.7	6.7
BAR LP 6131	6.3	7.0	7.0	6.7	8.0	7.3	5.3	3.7	3.7	5.3	9.0	8.3	7.3	7.0	6.6	6.6
DLFPS-236/3550	6.3	7.7	7.0	6.7	7.0	6.3	6.3	4.7	4.3	5.0	8.3	8.0	7.3	7.7	6.6	6.6
DLFPS-236/3554	7.3	8.0	7.3	7.3	7.3	5.7	6.3	5.0	4.3	4.7	8.0	8.0	7.7	7.3	6.6	6.6
PST-2GTD	5.7	6.3	6.7	6.3	6.3	5.7	6.3	5.0	5.0	5.3	8.3	8.3	7.7	7.7	6.6	6.6
LPB-SD-101	7.0	8.3	7.3	6.3	6.7	7.3	6.3	5.0	5.0	5.3	7.0	7.0	7.3	7.3	6.5	6.5
PPG-PR 370	6.0	7.3	6.3	6.3	6.7	6.7	7.0	4.7	4.3	5.0	8.0	8.0	7.7	7.3	6.5	6.5
PPG-PR 372	6.0	6.3	6.0	6.3	6.3	7.3	6.3	4.7	4.7	5.3	8.0	8.0	7.0	7.7	6.5	6.5
PPG-PR 421	6.3	7.0	6.7	6.0	6.7	6.7	6.7	5.0	4.7	5.0	8.3	7.7	7.0	7.7	6.5	6.5
PST-2A2	8.0	7.7	8.3	8.0	8.3	6.3	5.7	4.3	4.0	4.3	6.7	7.3	7.7	7.3	6.5	6.5
PST-2MAY	7.0	8.0	7.7	7.3	7.3	6.0	6.7	4.7	4.3	4.7	7.3	7.7	7.3	7.3	6.5	6.5
PST-2PDA	6.0	7.0	7.0	7.0	7.0	6.3	7.3	4.7	4.0	4.7	7.7	7.7	6.7	7.7	6.5	6.5
SEABISCUIT	6.0	7.7	7.0	7.0	6.3	6.7	6.3	4.7	4.3	5.0	8.0	8.0	7.3	7.0	6.5	6.5
O21	6.3	7.3	6.7	6.3	6.3	6.0	5.7	5.3	5.3	5.3	8.0	8.0	7.0	7.0	6.4	6.4
ASP0117 (A-PR15)	5.7	7.0	6.0	6.0	6.0	6.0	6.7	5.0	4.7	4.7	8.3	8.3	8.3	7.0	6.4	6.4
DLFPS-236/3540	6.0	6.3	6.7	6.3	6.0	6.7	6.7	4.7	4.7	5.0	8.0	7.7	6.7	7.7	6.4	6.4
DLFPS-236/3541	6.3	7.0	6.3	6.7	7.0	6.0	5.7	4.7	5.0	5.0	8.0	8.0	7.3	7.3	6.4	6.4
DLFPS-236/3542	6.0	7.0	7.7	7.0	7.3	5.3	6.3	4.3	3.7	4.7	7.3	7.7	7.3	8.0	6.4	6.4
GO-142	7.0	8.0	8.3	7.7	7.7	7.0	7.0	4.3	3.7	4.3	7.0	6.7	6.0	6.7	6.4	6.4
GO-143	7.0	8.3	8.0	7.3	6.7	4.7	6.3	4.3	4.0	4.7	8.0	8.0	6.7	7.7	6.4	6.4
MRS-PR16	6.7	8.0	7.7	7.0	7.3	5.0	5.7	4.0	3.7	4.7	8.0	8.0	7.7	7.7	6.4	6.4
PHARAOH	6.0	7.3	7.0	6.3	7.0	6.7	6.3	4.7	4.7	5.0	7.7	7.7	7.3	7.0	6.4	6.4
PPG-PR 331	6.7	8.3	7.0	6.7	6.7	5.7	5.3	4.3	4.0	5.3	8.3	8.3	7.7	8.0	6.4	6.4
PPG-PR 343	5.7	7.7	7.3	6.3	6.7	5.7	5.7	4.3	4.0	5.0	8.0	8.3	8.0	7.7	6.4	6.4
ASP0116EXT	6.3	8.0	6.7	6.3	6.0	4.3	7.0	5.7	4.7	5.3	7.7	7.7	6.3	7.7	6.3	6.3
BAR LP 6117	7.7	8.3	7.3	7.0	6.7	6.3	6.3	4.0	3.7	4.7	8.0	7.7	6.7	7.0	6.3	6.3
BAR LP 6159	5.3	7.0	7.0	7.0	7.0	6.7	6.0	5.0	4.7	5.0	7.0	6.7	6.3	7.3	6.3	6.3
CPN	6.7	8.0	6.3	6.3	6.7	6.0	5.7	4.3	4.0	5.0	8.3	8.3	7.0	7.7	6.3	6.3
DLFPS-236/3552	6.7	7.0	6.7	6.3	6.0	5.3	6.0	4.3	4.3	5.3	8.7	8.3	7.0	7.3	6.3	6.3
GRAND SLAM GLD	5.7	7.0	6.3	5.7	6.3	7.3	5.7	4.7	4.7	5.3	7.3	8.0	7.3	7.0	6.3	6.3
LPB-SD-102	7.0	7.3	7.3	7.0	7.0	6.3	6.7	4.7	4.0	4.3	6.7	7.0	7.0	7.3	6.3	6.3
FURLONG (LTP-FCB)	5.7	6.7	6.3	6.0	5.7	4.7	6.7	4.7	4.3	5.0	8.0	8.3	8.3	7.7	6.3	6.3
OVERDRIVE 5G	6.7	7.3	7.0	7.0	6.7	7.0	6.3	4.0	3.7	4.3	7.0	7.7	7.0	7.3	6.3	6.3
PPG-PR 367	6.3	8.0	6.7	6.7	6.7	5.7	6.3	4.7	4.3	4.3	7.0	7.3	7.7	8.0	6.3	6.3
PPG-PR 419	7.0	8.0	7.7	7.3	7.3	5.3	6.3	3.7	3.3	4.3	7.7	8.0	7.3	7.3	6.3	6.3
PR-5-16	5.7	6.3	6.3	7.3	7.3	7.0	6.3	4.3	4.0	4.7	7.0	7.0	6.7	7.0	6.3	6.3
RAD-PR 112	6.7	6.7	7.3	7.3	6.3	6.3	7.3	4.0	3.7	4.3	7.7	7.3	6.7	6.7	6.3	6.3

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(CONT'D)

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NAME	SEEDLING VIGOR	QUALITY DEC 2016	QUALITY RATINGS											MEAN	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		DEC
SIGNET	6.3	7.7	6.7	6.3	6.7	6.3	6.3	4.7	4.3	4.3	6.7	7.7	8.0	7.7	6.3
ASP0118GL (A-4G)	7.0	7.7	7.0	6.3	6.7	5.3	5.3	4.0	4.0	5.0	8.3	8.0	7.0	7.0	6.2
DLFPS-236/3545	6.3	7.3	6.0	6.0	6.0	6.0	7.0	4.7	4.0	4.3	7.0	8.0	8.0	7.3	6.2
DLFPS-236/3548	6.3	6.7	6.7	6.3	6.7	6.0	6.3	4.7	4.3	4.7	7.3	7.0	7.0	7.0	6.2
JR-123	6.3	7.0	6.7	6.7	7.0	6.7	6.7	4.7	3.7	4.7	7.0	7.0	7.7	6.3	6.2
MENSA	5.3	6.3	6.3	6.0	6.3	5.0	6.0	5.3	5.3	5.3	7.3	7.7	7.0	6.7	6.2
PPG-PR 420	6.7	8.0	7.0	7.0	7.0	4.7	5.3	4.3	4.3	4.7	7.7	7.3	7.0	8.3	6.2
PPG-PR 424	6.0	7.3	7.3	7.3	6.7	6.0	6.3	4.0	4.0	4.7	7.0	6.7	6.7	7.3	6.2
UF3	6.0	6.7	6.3	6.0	6.3	5.7	6.7	4.7	4.3	5.0	7.0	7.7	7.3	7.7	6.2
UMPQUA	7.3	8.3	7.7	7.7	7.7	6.3	5.7	4.0	4.0	4.0	6.3	6.7	7.0	7.0	6.2
Q23	5.7	7.0	4.7	6.3	5.7	5.7	6.3	5.3	5.0	5.3	7.7	7.3	6.3	7.7	6.1
ALLSTAR III	5.7	7.7	7.0	6.7	6.7	6.3	6.3	4.0	3.3	4.0	7.0	7.7	7.0	7.0	6.1
BAR LP 6158	6.0	7.0	7.7	7.0	6.7	5.7	5.3	4.3	3.7	4.7	8.3	7.0	6.0	6.7	6.1
BAR LP 6165	6.7	8.0	7.0	6.3	6.7	6.3	6.7	4.0	3.7	4.0	7.3	7.7	7.3	6.3	6.1
DLFPS-236/3544	5.7	6.3	6.3	6.3	6.7	7.0	6.3	4.0	3.3	4.3	6.7	7.7	7.3	7.7	6.1
DLFPS-236/3553	5.7	6.0	6.7	6.3	6.0	5.7	6.3	4.0	3.7	4.0	7.0	7.7	7.7	8.3	6.1
FP2	6.0	7.3	6.0	5.3	6.0	6.3	6.7	4.3	4.0	4.7	7.3	7.7	7.3	7.3	6.1
INTENSE	6.3	7.0	7.3	6.7	7.3	6.0	5.3	4.0	4.0	4.3	6.7	7.3	7.3	7.0	6.1
JR-888	7.3	7.7	7.3	7.0	7.7	6.3	6.0	4.7	4.0	4.3	6.3	6.3	6.0	7.0	6.1
PPG-PR 241	4.7	6.3	6.3	5.3	6.0	5.3	6.7	5.0	4.7	5.0	7.3	7.7	7.3	7.0	6.1
PR-6-15	6.7	8.3	6.7	6.7	6.7	6.3	6.0	3.7	2.7	4.0	7.7	7.7	7.3	7.7	6.1
SILVER SPORT (PST-2CRP)	5.3	6.0	5.3	6.3	6.7	4.7	7.3	5.3	5.0	5.7	6.3	6.7	7.3	7.0	6.1
PST-2EGAD	5.7	6.7	7.0	6.3	6.3	5.3	5.7	4.3	4.3	4.3	7.7	7.7	7.0	7.3	6.1
BAR LP 6162	6.7	7.7	7.0	6.3	6.3	5.7	6.0	4.3	4.3	4.7	7.7	7.3	6.0	6.0	6.0
CS-6	5.7	7.7	7.0	6.0	6.3	5.0	5.7	4.0	3.7	4.7	8.0	7.3	7.3	7.3	6.0
DLFPS-236/3547	6.3	6.7	6.7	6.3	6.0	4.0	5.7	3.7	3.3	4.7	8.0	8.7	7.7	7.3	6.0
GO-141	7.0	8.3	7.0	8.0	7.3	6.0	6.0	4.0	4.0	4.0	6.7	7.0	6.0	6.3	6.0
PL2	6.0	6.7	6.3	5.7	6.0	5.7	6.0	4.3	4.0	4.7	6.7	7.3	7.7	7.7	6.0
XCELERATOR	6.7	6.7	6.7	6.3	6.7	5.7	6.7	5.0	4.3	4.7	7.0	6.7	5.7	6.3	6.0
ASP0218 (A-6D)	7.0	8.0	7.3	6.7	6.7	6.7	5.3	3.7	3.7	4.3	6.7	6.3	6.0	7.0	5.9
APR2612	5.7	6.3	5.7	6.0	6.0	4.7	5.3	4.0	3.7	4.3	7.7	7.7	7.7	7.7	5.9
BAR LP 6233	7.0	7.7	6.7	6.7	7.0	6.3	6.0	4.0	4.0	4.3	6.0	6.7	7.0	6.3	5.9
DLFPS-236/3543	5.7	7.0	6.7	5.7	6.3	6.3	5.3	4.3	4.3	4.3	7.7	7.0	6.3	7.0	5.9
JR-197	6.7	8.0	6.7	6.7	6.3	6.0	6.3	4.0	3.7	3.7	6.3	7.0	7.3	7.3	5.9
NP-2	5.0	6.3	6.0	5.7	5.7	4.3	6.0	4.3	4.3	4.7	6.7	7.3	8.0	8.0	5.9
NP-3	5.0	7.3	6.3	6.0	6.7	5.7	5.7	4.0	3.7	4.7	7.0	7.3	6.7	7.3	5.9
PPG-PR 329	6.0	7.3	7.0	6.3	6.3	5.3	5.0	3.7	3.3	4.3	6.7	8.0	8.0	7.0	5.9
PST-2FOXY	5.3	7.3	5.7	6.0	5.3	4.7	6.0	4.3	4.0	4.3	7.7	7.7	8.0	7.7	5.9
RRT	6.0	6.3	7.0	6.3	6.0	5.0	6.3	4.7	4.0	4.7	6.7	7.0	6.3	6.7	5.9
SNX	6.3	7.3	7.3	6.7	6.7	6.7	6.0	4.0	3.7	4.0	6.0	6.7	6.3	6.3	5.9
SHIELD (O2BS4)	6.3	7.7	6.3	6.3	6.0	5.0	6.0	4.0	3.3	4.0	7.3	7.3	7.0	7.3	5.8
BSP-25	6.3	6.7	6.7	5.7	5.7	5.7	5.7	4.0	3.7	4.3	7.7	7.7	6.3	6.3	5.8
KARMA	5.0	6.7	6.3	5.7	6.3	6.0	7.0	3.7	3.3	3.7	6.7	7.0	6.0	7.3	5.8
MRSL-PR15	5.3	6.3	5.3	6.0	5.7	5.0	6.0	4.3	4.3	5.0	7.7	7.0	6.0	7.0	5.8
PPG-PR 385	5.3	6.7	6.0	6.3	6.3	4.7	6.0	4.3	4.0	4.0	7.0	7.0	6.7	7.0	5.8
PEPPER II (RAD-PR 103)	4.0	5.3	6.0	5.3	5.0	4.0	6.0	4.3	3.7	4.0	7.7	8.0	7.7	7.7	5.8
AMP-R1	6.3	7.7	7.0	6.3	6.0	5.7	5.0	3.3	3.3	4.0	7.0	7.3	6.3	6.7	5.7

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			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
APR2616	6.3	7.0	6.7	6.3	7.0	5.0	5.3	4.3	4.0	4.3	6.0	6.7	6.7	6.3	5.7
DLFPS-236/3556	6.7	7.3	6.3	5.7	6.3	5.7	6.0	4.0	3.3	3.7	6.0	6.7	7.0	7.3	5.7
DERBY XTREME	4.3	5.7	6.3	5.7	5.3	6.3	6.3	4.0	3.0	4.0	6.0	7.0	6.7	6.0	5.6
DLFPS-236/3538	5.0	6.0	6.7	6.3	5.7	6.0	6.3	4.3	3.3	3.7	5.7	6.0	5.7	7.0	5.6
DLFPS-236/3546	4.3	6.0	6.0	5.3	5.0	4.3	5.7	4.0	3.7	4.3	7.0	7.0	7.3	7.7	5.6
EVOLVE	6.7	7.7	6.3	6.0	6.3	5.7	6.3	3.3	2.7	3.7	6.7	7.0	6.7	6.3	5.6
BRIGHTSTAR SLT	5.7	6.3	6.7	6.3	6.0	5.3	5.7	4.0	3.7	4.3	6.0	6.3	5.3	6.7	5.5
LINN	6.3	8.0	8.0	7.3	6.7	6.3	5.7	3.0	2.7	4.3	5.3	6.3	5.7	4.7	5.5
LPB-SD-103	6.0	6.3	6.3	5.7	5.7	5.0	6.0	3.7	3.3	3.7	7.0	6.7	6.3	6.7	5.5
PPG-PR 360	5.0	6.0	5.7	5.3	5.0	4.7	5.7	4.3	3.7	4.0	7.7	7.7	5.7	6.7	5.5
SR 4650	4.7	7.0	6.3	6.0	6.0	4.7	5.3	4.0	3.0	3.7	6.3	7.3	6.7	7.0	5.5
BSP-17	6.7	8.7	6.7	6.0	5.7	5.0	5.7	3.3	3.0	4.0	6.7	6.7	6.7	6.0	5.4
LPB-SD-104	4.7	5.7	5.3	5.3	5.0	6.3	5.7	4.3	4.3	4.3	5.7	6.0	6.0	6.7	5.4
LPB-SD-105	4.7	6.0	6.0	6.0	5.7	5.3	5.7	4.7	4.3	4.7	5.7	6.0	5.3	5.7	5.4
PST-2BDT	5.0	7.3	6.0	6.0	6.7	6.0	5.7	3.0	2.7	3.3	5.3	6.3	7.0	7.0	5.4
SAGUARO	5.0	6.0	5.3	6.0	5.7	4.7	6.0	4.7	4.0	4.3	5.7	6.7	6.0	6.0	5.4
BWH	4.7	5.3	5.0	5.3	5.3	4.7	6.0	3.7	3.7	4.0	6.3	6.7	6.3	7.0	5.3
JR-747	7.0	7.3	6.3	6.3	6.0	6.0	4.7	3.7	3.7	4.0	5.7	5.3	4.7	6.0	5.2
PPG-PR 423	4.0	5.3	5.3	5.0	5.0	5.3	5.0	3.7	3.0	3.7	5.3	6.7	6.7	6.3	5.1
DLFPS-238/3014	5.0	6.3	5.3	6.0	6.3	5.3	5.0	3.3	3.0	3.3	4.7	6.0	6.3	5.3	5.0
LSD VALUE	4.0	3.9	2.6	4.1	5.0	4.5	4.4	4.3	5.1	3.6	3.1	3.3	3.7	2.8	2.1
C.V. (%)	20.5	16.9	15.0	16.4	18.4	22.2	15.9	21.3	26.9	19.3	17.1	14.0	16.4	13.4	10.6

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA7	SANDY LOAM	6.6-7.0	0-60	0-150	1.1-2.0	FULL SUN	3.6-4.0	TO PREVENT DORMANCY

TABLE 2. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN THE GREENHOUSE AT FORT COLLINS, CO 1/ 2017 DATA TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS OF THE SALT TREATMENT 3/					QUALITY RATINGS OF THE CONTROL					PERCENT OF QUALITY (TREATMENT OVER CONTROL)				
	8_DS	12_DS	16_DS	20_DS	24_DS	8_DS	12_DS	16_DS	20_DS	24_DS	8_DS	12_DS	16_DS	20_DS	24_DS
SAVANT	8.2	7.1	7.3	7.0	4.7	8.7	8.7	8.8	8.7	8.9	94.3	82.0	82.3	80.5	52.6
DLFPS-236/3548	8.1	7.1	7.4	7.2	4.5	8.7	8.7	8.8	8.7	8.9	93.1	80.9	84.2	82.1	50.8
GO-141	8.0	6.9	7.2	6.9	4.0	8.7	8.7	8.8	8.7	8.9	92.0	78.9	81.1	79.4	45.1
GO-142	8.0	6.9	7.2	7.1	3.8	8.7	8.7	8.8	8.7	8.9	92.0	79.0	81.1	80.9	43.3
ALLSTAR III	7.9	6.9	7.3	6.6	3.7	8.6	8.7	8.8	8.7	8.9	91.9	79.3	83.0	75.6	41.4
DLFPS-236/3540	8.2	7.3	7.1	7.0	3.7	8.7	8.7	8.8	8.7	8.9	94.3	83.2	80.8	80.2	41.3
DLFPS-236/3550	7.9	7.0	7.3	7.2	3.7	8.7	8.8	8.8	8.7	8.9	91.2	79.2	83.0	82.5	41.4
LPB-SD-102	8.2	7.1	7.2	6.8	3.5	8.7	8.6	8.8	8.8	8.9	94.3	82.7	81.2	77.6	39.4
MAN O WAR	8.0	6.9	7.4	6.8	3.3	8.7	8.7	8.8	8.7	8.9	91.9	79.0	83.4	77.9	37.6
PR-6-15	8.1	7.0	7.3	7.2	3.3	8.7	8.7	8.8	8.7	8.9	92.4	80.2	83.0	82.5	37.6
DLFPS-236/3542	8.2	7.2	7.3	7.0	3.2	8.7	8.7	8.8	8.7	8.9	94.6	82.1	82.3	80.2	35.6
DLFPS-236/3547	8.0	7.0	7.2	7.2	3.2	8.7	8.7	8.8	8.7	8.9	92.3	80.8	81.9	82.1	35.8
MENSA	8.2	7.0	7.1	6.8	3.2	8.7	8.7	8.8	8.6	8.9	93.9	80.8	80.4	78.8	35.6
PPG-PR 371	8.2	7.0	7.3	7.0	3.2	8.7	8.7	8.8	8.7	8.9	93.5	79.8	83.0	80.1	35.7
PPG-PR 385	8.1	7.1	7.4	7.0	3.2	8.7	8.7	8.8	8.7	8.9	92.8	80.9	83.8	80.4	35.7
DLFPS-238/3014	7.7	6.8	7.2	6.8	3.0	8.6	8.6	8.8	8.7	8.9	89.6	78.8	81.1	77.5	33.8
GO-143	8.1	6.9	7.2	7.1	3.0	8.7	8.7	8.8	8.7	8.9	92.4	79.3	81.5	80.9	33.9
LPB-SD-103	8.2	7.3	7.2	6.8	3.0	8.7	8.7	8.8	8.7	8.9	94.7	83.2	81.5	77.5	33.9
PR-5-16	8.1	7.2	7.3	7.1	3.0	8.7	8.7	8.8	8.7	8.9	93.2	82.1	82.3	80.9	33.9
PEPPER II (RAD-PR 103)	8.0	6.9	7.1	6.8	3.0	8.7	8.7	8.8	8.7	8.9	92.3	78.9	80.0	77.5	33.8
XCELERATOR	8.1	7.1	7.1	7.0	3.0	8.7	8.6	8.8	8.7	8.9	92.8	82.6	80.8	80.2	33.8
O23	8.0	7.1	7.3	7.0	2.8	8.7	8.7	8.8	8.7	8.9	92.0	80.9	82.6	80.5	32.0
CPN	8.0	6.9	7.2	6.7	2.8	8.6	8.7	8.8	8.7	8.9	92.3	79.3	81.1	77.1	31.9
DLFPS-236/3546	8.0	7.0	7.4	7.2	2.8	8.7	8.7	8.8	8.7	8.9	92.3	79.8	83.4	82.9	32.0
LPB-SD-101	8.2	7.1	7.2	6.7	2.8	8.7	8.6	8.8	8.8	8.9	94.3	81.9	81.2	76.8	31.9
LPB-SD-105	8.2	7.0	7.1	6.7	2.8	8.7	8.7	8.8	8.8	8.9	94.3	80.8	80.8	76.8	31.9
PPG-PR 331	7.9	7.0	7.1	6.7	2.8	8.7	8.7	8.8	8.7	8.9	90.8	79.8	80.0	76.7	32.0
O2BS1	8.0	6.8	6.9	6.1	2.7	8.6	8.7	8.8	8.7	8.9	92.7	78.6	78.1	69.4	30.0
BRIGHTSTAR SLT	7.8	6.9	7.0	6.5	2.7	8.6	8.6	8.8	8.7	8.9	90.8	79.9	80.2	74.8	30.7
DERBY XTREME	7.9	6.9	7.1	6.9	2.7	8.7	8.7	8.8	8.7	8.9	91.1	79.7	80.0	79.0	30.1
DLFPS-236/3538	8.0	6.9	6.2	4.9	2.7	8.7	8.6	8.8	8.7	8.9	91.6	79.6	70.1	56.0	30.1
PPG-PR 339	8.2	7.2	7.4	7.0	2.7	8.7	8.7	8.8	8.7	8.9	93.9	82.5	83.4	80.4	30.1
PPG-PR 372	8.1	7.0	7.2	6.9	2.7	8.7	8.7	8.8	8.7	8.9	93.1	79.8	81.9	79.7	30.1
PPG-PR 423	8.1	7.0	7.4	6.1	2.7	8.7	8.7	8.8	8.7	8.9	93.1	80.2	84.1	70.2	30.0
SAGUARO	8.2	6.9	7.2	6.9	2.7	8.6	8.6	8.8	8.8	8.9	95.3	80.4	81.1	78.7	30.0
AMP-R1	8.0	7.0	7.4	7.2	2.5	8.7	8.7	8.8	8.7	8.9	91.6	80.9	83.4	82.1	28.2
APR2612	8.0	6.9	7.1	7.1	2.5	8.6	8.7	8.8	8.7	8.9	93.0	79.0	80.4	80.9	28.3
DLFPS-236/3544	8.3	7.2	7.2	7.0	2.5	8.7	8.7	8.8	8.7	8.9	94.7	83.1	81.5	79.8	28.1
DLFPS-236/3552	8.0	6.9	7.3	7.1	2.5	8.7	8.8	8.8	8.7	8.9	92.0	79.1	82.3	80.9	28.1
JR-197	8.0	6.9	7.3	6.6	2.5	8.7	8.6	8.8	8.7	8.9	92.3	79.6	82.7	75.6	28.1
PPG-PR 343	8.1	7.0	7.2	7.0	2.5	8.7	8.7	8.8	8.7	8.9	93.1	79.8	81.1	79.8	28.2
PPG-PR 360	8.1	7.0	6.7	5.6	2.5	8.7	8.7	8.8	8.7	8.9	93.1	79.8	75.8	63.7	28.2
PPG-PR 419	8.1	7.0	7.3	6.6	2.5	8.7	8.7	8.8	8.7	8.9	92.4	80.2	82.2	75.2	28.2
RAD-PR 112	8.0	6.9	7.3	7.0	2.5	8.7	8.7	8.8	8.7	8.9	91.9	79.3	83.0	80.2	28.2
RRT	7.9	7.1	7.3	7.1	2.5	8.7	8.8	8.8	8.7	8.9	90.8	80.6	83.0	81.3	28.3
PPG-PR 241	8.0	7.0	7.2	6.7	2.4	8.7	8.7	8.8	8.7	8.9	92.0	79.8	81.5	77.1	27.1
SEABISCUIT	7.9	7.1	7.3	6.6	2.4	8.6	8.6	8.8	8.7	8.9	92.3	82.6	82.2	75.9	27.0

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 THE GREENHOUSE AT FORT COLLINS, CO 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS OF THE SALT TREATMENT 3/					QUALITY RATINGS OF THE CONTROL					PERCENT OF QUALITY (TREATMENT OVER CONTROL)				
	8_DS	12_DS	16_DS	20_DS	24_DS	8_DS	12_DS	16_DS	20_DS	24_DS	8_DS	12_DS	16_DS	20_DS	24_DS
APR3060	8.1	7.0	7.3	7.0	2.3	8.7	8.7	8.8	8.7	8.9	92.8	80.5	82.7	80.1	26.4
DLFPS-236/3543	8.2	7.1	7.3	6.8	2.3	8.7	8.8	8.8	8.6	8.9	93.9	80.6	82.6	79.2	26.4
DLFPS-236/3554	8.2	7.1	7.4	7.1	2.3	8.7	8.7	8.8	8.7	8.9	93.5	81.3	83.8	80.9	25.7
INTENSE	8.3	7.3	7.1	6.9	2.3	8.7	8.8	8.8	8.7	8.9	95.1	83.3	80.8	78.6	26.3
LPB-SD-104	8.2	7.0	7.0	6.7	2.3	8.6	8.7	8.8	8.8	8.9	95.0	80.5	79.6	76.4	26.2
PHARAOH	7.9	6.7	7.3	6.4	2.3	8.7	8.7	8.8	8.7	8.9	91.5	77.4	82.3	73.7	26.3
PPG-PR 370	8.1	7.1	7.3	7.0	2.3	8.7	8.7	8.8	8.7	8.9	93.1	80.9	83.0	80.8	26.3
PPG-PR 420	8.1	6.9	7.4	7.2	2.3	8.7	8.7	8.8	8.7	8.9	93.1	78.6	83.4	82.4	26.3
PST-2A2	8.2	7.2	7.3	6.9	2.3	8.7	8.7	8.8	8.7	8.9	94.3	82.1	82.3	79.4	26.4
GRAY WOLF (PST-2GAL)	8.2	7.2	7.4	7.1	2.3	8.7	8.7	8.8	8.7	8.9	94.3	82.8	84.2	81.3	26.4
PST-2PDA	8.1	7.1	7.2	6.9	2.3	8.7	8.7	8.8	8.7	8.9	93.2	81.3	81.5	79.4	26.4
PPG-PR 329	8.0	7.1	7.2	7.0	2.2	8.7	8.7	8.8	8.7	8.9	92.0	80.9	81.9	80.6	24.4
PST-2EGAD	8.1	7.1	7.4	7.0	2.2	8.7	8.7	8.8	8.7	8.9	93.1	81.7	83.8	80.6	24.5
DLFPS-236/3545	8.2	7.2	7.2	6.6	2.1	8.7	8.7	8.8	8.7	8.9	93.9	82.1	81.5	76.6	23.4
BAR LP 6159	8.1	7.0	7.3	6.6	2.0	8.7	8.7	8.8	8.7	8.9	93.1	80.8	82.7	76.0	22.6
BWH	8.2	7.3	7.2	6.9	2.0	8.6	8.7	8.8	8.6	8.9	95.4	83.9	82.2	79.9	22.5
JR-123	8.2	7.1	7.1	6.8	2.0	8.7	8.8	8.8	8.7	8.9	94.2	81.4	80.4	78.2	22.5
GRAY HAWK (PST-2FIND)	8.2	7.0	7.3	7.1	2.0	8.7	8.6	8.8	8.7	8.9	93.5	81.8	83.0	81.7	22.6
UF3	8.2	7.0	7.2	6.7	2.0	8.7	8.8	8.8	8.7	8.9	93.9	80.2	81.9	76.7	22.5
OVERDRIVE 5G	8.0	7.0	7.0	5.4	1.9	8.6	8.6	8.8	8.7	8.9	92.6	81.4	79.6	62.4	21.4
O21	8.3	7.3	7.3	6.8	1.8	8.7	8.6	8.8	8.7	8.9	95.0	85.0	82.6	78.9	20.7
O2BS2	8.0	7.0	7.2	7.0	1.8	8.7	8.7	8.8	8.7	8.9	91.6	80.5	81.9	80.5	20.7
FP2	8.0	7.0	7.3	7.0	1.8	8.7	8.7	8.8	8.7	8.9	92.0	80.6	82.6	80.6	20.7
PL2	8.2	7.1	7.3	6.8	1.8	8.7	8.7	8.8	8.7	8.9	93.9	80.9	82.6	77.9	20.7
PPG-PR 367	8.1	6.9	7.1	6.2	1.8	8.7	8.7	8.8	8.7	8.9	93.1	79.4	80.0	71.7	20.7
PPG-PR 424	8.1	6.9	7.4	6.8	1.8	8.7	8.7	8.8	8.7	8.9	92.7	79.4	84.2	77.9	20.7
PST-2GTD	8.1	7.2	7.3	7.2	1.8	8.7	8.8	8.8	8.7	8.9	93.5	81.7	82.7	82.1	20.7
PST-2MAY	8.2	7.0	7.4	6.7	1.8	8.7	8.7	8.8	8.7	8.9	93.5	80.5	83.4	76.8	20.7
SIGNET	8.2	7.0	7.4	7.0	1.8	8.7	8.7	8.8	8.7	8.9	93.9	80.5	83.4	79.8	20.7
GRAND SLAM GLD	8.1	7.0	7.3	5.1	1.7	8.7	8.7	8.8	8.7	8.9	92.8	80.8	82.3	58.3	19.6
PST-2FOXY	8.1	7.3	7.3	6.8	1.7	8.7	8.7	8.8	8.7	8.9	93.5	83.2	82.2	77.9	18.8
DLFPS-236/3553	8.2	7.1	7.3	6.7	1.6	8.7	8.7	8.8	8.7	8.9	93.5	81.3	83.0	76.4	17.7
NP-2	8.1	6.9	7.4	6.3	1.6	8.7	8.7	8.8	8.7	8.9	92.7	79.4	83.4	71.8	18.1
SR 4650	8.0	6.9	7.4	6.9	1.6	8.7	8.7	8.8	8.7	8.9	92.0	79.7	83.4	78.6	17.7
ASP0118GL (A-4G)	8.2	7.2	7.4	6.7	1.5	8.7	8.7	8.8	8.7	8.9	93.9	82.5	83.8	76.4	17.0
BAR LP 6164	7.9	6.9	7.3	6.3	1.5	8.6	8.7	8.8	8.7	8.9	91.5	78.7	82.6	72.5	17.0
BAR LP 6233	8.1	7.0	7.4	5.2	1.5	8.7	8.6	8.8	8.7	8.9	93.5	80.8	83.4	60.0	17.0
DLFPS-236/3556	8.2	7.1	7.3	6.0	1.5	8.7	8.7	8.8	8.7	8.9	94.3	81.7	82.2	69.1	17.0
KARMA	8.1	6.8	7.3	6.6	1.5	8.7	8.7	8.8	8.7	8.9	92.4	78.2	83.0	75.2	16.9
PPG-PR 422	8.1	7.0	7.4	6.7	1.5	8.7	8.8	8.8	8.7	8.9	92.4	79.4	83.4	76.7	16.9
SILVER SPORT (PST-2CRP)	8.1	7.1	7.3	6.3	1.5	8.7	8.7	8.8	8.7	8.9	93.1	81.3	83.0	72.6	16.9
BAR LP 6117	7.9	6.9	7.3	6.8	1.4	8.7	8.5	8.8	8.7	8.9	91.2	81.2	83.0	77.5	16.2
EVOLVE	8.2	7.0	7.1	6.4	1.4	8.7	8.7	8.8	8.7	8.9	93.9	80.9	80.4	72.9	15.8
BAR LP 6131	8.0	7.1	7.4	6.6	1.3	8.6	8.6	8.8	8.7	8.9	92.3	81.9	83.4	75.2	15.1
BAR LP 6165	7.8	6.5	6.9	5.0	1.3	8.4	8.4	8.8	8.6	8.9	92.8	77.9	78.5	57.2	15.1
CS-6	8.2	7.1	7.2	6.3	1.3	8.7	8.7	8.8	8.7	8.9	94.6	80.9	81.1	73.1	15.1
DLFPS-236/3541	8.2	7.0	7.3	6.0	1.3	8.7	8.8	8.8	8.7	8.9	94.3	79.5	82.7	69.1	15.0

TABLE 2. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST FOR SALT TOLERANCE STUDY IN THE GREENHOUSE AT FORT COLLINS, CO 1/ 2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	QUALITY RATINGS OF THE SALT TREATMENT 3/					QUALITY RATINGS OF THE CONTROL					PERCENT OF QUALITY (TREATMENT OVER CONTROL)				
	8_DS	12_DS	16_DS	20_DS	24_DS	8_DS	12_DS	16_DS	20_DS	24_DS	8_DS	12_DS	16_DS	20_DS	24_DS
JR-747	8.0	7.0	7.0	6.1	1.3	8.7	8.6	8.8	8.7	8.9	92.3	80.7	79.6	69.5	15.0
PST-2BDT	8.2	7.2	7.4	7.1	1.3	8.7	8.7	8.8	8.7	8.9	93.5	82.5	83.8	80.9	15.0
BSP-25	8.2	7.2	7.1	6.6	1.2	8.6	8.6	8.8	8.6	8.9	95.0	83.9	80.3	76.8	13.2
JR-888	8.0	6.8	7.0	4.8	1.2	8.7	8.6	8.8	8.7	8.9	92.3	79.1	79.2	55.4	13.1
FURLONG (LTP-FCB)	8.0	6.9	7.2	5.0	1.2	8.7	8.6	8.8	8.7	8.9	91.2	80.7	81.9	57.6	13.9
MRSL-PR15	8.1	7.1	7.3	5.9	1.2	8.7	8.7	8.8	8.6	8.9	93.1	81.3	82.7	68.6	13.9
PPG-PR 421	8.1	6.9	7.4	6.9	1.2	8.7	8.7	8.8	8.7	8.9	92.8	78.6	84.2	79.4	13.2
UMPQUA	7.8	6.8	7.2	6.4	1.2	8.6	8.6	8.8	8.7	8.9	90.7	78.4	81.1	72.9	13.1
ASPO117 (A-PR15)	8.1	7.0	7.2	5.1	1.1	8.7	8.7	8.8	8.7	8.9	93.5	79.8	81.9	58.9	12.4
SNX	8.1	7.1	7.3	5.6	1.1	8.7	8.7	8.8	8.7	8.9	93.5	80.9	83.0	64.6	12.4
BAR LP 6162	7.9	6.9	7.3	6.9	1.0	8.6	8.7	8.8	8.7	8.9	91.8	79.4	82.6	79.0	11.3
BSP-17	8.2	7.4	7.2	5.5	1.0	8.6	8.7	8.8	8.7	8.9	95.0	85.1	81.4	63.2	11.3
LINN	7.6	6.4	6.1	4.0	1.0	8.2	8.1	8.6	8.6	8.8	92.3	78.6	70.5	46.1	11.3
MRSL-PR16	8.2	7.1	7.3	6.9	1.0	8.7	8.8	8.8	8.7	8.9	93.9	80.6	83.0	78.6	11.3
ASPO116EXT	8.2	7.1	7.3	6.7	0.9	8.7	8.7	8.8	8.7	8.9	93.9	81.3	82.7	76.8	10.2
ASPO218 (A-6D)	8.1	7.0	7.3	6.8	0.8	8.7	8.7	8.8	8.7	8.9	93.1	80.2	83.0	78.3	8.6
APR2616	8.2	7.1	7.3	6.8	0.8	8.7	8.7	8.8	8.7	8.9	94.2	81.2	82.7	77.5	9.4
BAR LP 6158	7.8	6.8	7.2	6.5	0.8	8.6	8.7	8.8	8.7	8.9	90.3	77.9	81.9	74.4	9.4
SHIELD (O2BS4)	8.1	7.0	7.4	6.9	0.7	8.7	8.7	8.8	8.7	8.9	93.5	79.8	83.4	78.7	7.5
NP-3	8.2	6.9	7.1	6.5	0.7	8.7	8.7	8.8	8.7	8.9	93.9	79.0	80.7	74.1	7.5
LSD VALUE	0.2	0.4	0.8	2.4	3.8	0.1	0.2	0.0	0.2	0.0	3.2	8.3	9.4	28.6	43.2
C.V. (%)	1.5	2.6	3.9	13.3	58.5	0.6	1.0	0.2	0.6	0.1	1.6	3.0	3.8	13.4	58.6

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.

3/ SALT LEVELS OF 8, 12, 16, 20 OR 24 DECISIEMENS/METER IMPOSED ON ENTRIES BY IMMERSING CONETAINERS FILLED WITH SAND INTO A NUTRIENT AND SALT SOLUTION FOR ONE HOUR DAILY, FOR 30 DAYS. AFTER ONE MONTH AT THE STARTING 8 DS/M LEVEL, THE NEXT SALT LEVEL IS IMPOSED FOR 30 DAYS UNTIL ENTRIES ARE EXPOSED TO ALL SALT LEVELS FOR 30 DAYS EACH. EACH SALT LEVEL AND ENTRY HAS A SEPARATE CONTROL (AS SEEN IN THE DATA ABOVE) THAT RECEIVES A NUTRIENT SOLUTION IMMERSION ONLY. PERCENT OF QUALITY CALCULATION IS: QUALITY RATING OF SALT LEVEL DIVIDED BY QUALITY RATING OF CORRESPONDING CONTROL. NOTE: COMPLETE SALT TREATMENT PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CO1	-	-	-	-	-	-	-	-

TABLE 3.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	QUALITY RATINGS							MEAN
			MAY	JUN	JUL	AUG	SEP	OCT		
023	6.0	80.0	8.0	8.0	8.0	7.3	7.3	7.0	7.6	
PL2	7.3	66.7	8.7	7.7	7.0	6.7	7.3	8.3	7.6	
PPG-PR 420	5.7	70.0	8.0	8.0	7.0	7.0	7.3	8.0	7.6	
PPG-PR 422	6.7	63.3	8.0	7.7	7.3	6.7	7.7	8.0	7.6	
XCELERATOR	6.0	66.7	7.7	7.3	8.7	6.7	7.0	8.0	7.6	
PPG-PR 331	6.0	75.0	7.0	7.3	8.0	7.3	8.0	7.3	7.5	
PPG-PR 370	7.3	68.3	7.7	8.0	8.0	6.7	7.0	7.3	7.4	
PPG-PR 372	6.3	73.3	7.0	7.7	7.3	7.0	7.3	8.0	7.4	
PPG-PR 423	6.7	65.0	7.3	7.7	7.3	6.7	7.0	7.7	7.3	
SHIELD (02BS4)	6.0	66.7	7.7	8.0	8.0	6.7	7.0	6.0	7.2	
DLFPS-236/3540	6.7	61.7	7.3	7.7	7.7	6.7	7.0	7.0	7.2	
DLFPS-236/3556	6.0	70.0	8.0	7.0	7.3	6.0	7.7	7.3	7.2	
NP-2	6.3	66.7	6.7	6.7	7.0	7.0	7.7	8.0	7.2	
PHARAOH	5.3	70.0	6.7	7.3	8.3	6.7	7.0	7.0	7.2	
GRAY WOLF (PST-2GAL)	6.3	63.3	7.7	7.3	7.3	6.0	7.7	7.0	7.2	
DLFPS-236/3543	6.7	65.0	7.7	8.0	7.3	6.3	6.3	6.7	7.1	
DLFPS-236/3554	5.7	58.3	6.3	7.3	7.3	7.3	7.3	7.0	7.1	
FURLONG (LTP-FCB)	6.0	61.7	7.7	7.0	7.0	6.7	6.7	7.3	7.1	
PPG-PR 360	6.7	68.3	7.0	7.7	7.3	6.3	7.7	6.7	7.1	
PPG-PR 419	6.3	68.3	7.0	7.3	8.0	6.0	7.0	7.3	7.1	
PPG-PR 424	5.3	66.7	6.7	6.7	7.3	6.3	8.0	7.3	7.1	
PR-5-16	5.7	63.3	8.0	8.0	7.3	6.3	6.0	7.0	7.1	
UF3	5.7	68.3	7.7	7.0	6.7	7.0	7.0	7.3	7.1	
02BS2	5.3	75.0	6.7	6.3	7.3	6.7	7.3	7.7	7.0	
DLFPS-236/3546	6.3	65.0	7.3	7.3	7.0	6.0	6.7	7.7	7.0	
JR-123	5.0	63.3	7.7	6.7	6.7	6.7	6.7	7.7	7.0	
OVERDRIVE 5G	6.3	58.3	8.0	6.7	6.3	7.0	7.3	6.7	7.0	
DLFPS-236/3542	7.7	63.3	6.0	7.3	7.3	7.0	7.0	7.0	6.9	
DLFPS-236/3547	5.7	63.3	7.0	7.3	6.7	6.3	7.0	7.3	6.9	
NP-3	6.7	60.0	7.7	6.7	7.7	6.3	6.3	7.0	6.9	
PPG-PR 421	6.3	61.7	7.0	6.7	6.0	6.3	7.7	8.0	6.9	
PST-2A2	5.7	70.0	6.3	7.3	7.7	6.3	6.7	7.3	6.9	
GRAY HAWK (PST-2FIND)	7.0	73.3	6.7	7.0	7.3	6.3	7.3	6.7	6.9	
RRT	6.3	76.7	7.3	7.7	7.0	6.3	6.7	6.7	6.9	
SEABISCUIT	5.0	68.3	7.3	7.0	6.7	7.3	7.0	6.0	6.9	
SIGNET	6.3	60.0	6.0	8.0	7.7	5.0	7.0	7.7	6.9	
SR 4650	6.0	76.7	6.0	7.7	6.7	6.0	7.3	7.7	6.9	
DERBY XTREME	6.3	65.0	7.3	6.7	7.3	6.0	6.7	7.0	6.8	
DLFPS-236/3538	6.0	66.7	7.7	7.0	7.0	6.7	6.7	5.7	6.8	
DLFPS-236/3548	6.7	65.0	7.0	6.7	7.7	6.3	6.3	7.0	6.8	
FP2	5.3	66.7	7.3	6.7	6.7	6.7	6.7	7.0	6.8	
INTENSE	6.3	80.0	6.3	7.3	6.7	6.7	7.0	7.0	6.8	
PPG-PR 329	5.7	63.3	7.0	6.7	6.7	6.3	7.0	7.3	6.8	
PST-2GTD	6.7	61.7	6.3	7.0	7.0	6.3	7.3	7.0	6.8	
02BS1	5.3	63.3	7.3	6.7	6.7	6.3	7.0	6.3	6.7	
CPN	6.0	63.3	7.0	6.7	6.0	6.0	7.0	7.3	6.7	
DLFPS-236/3552	6.0	68.3	5.7	6.3	6.7	6.7	6.7	8.0	6.7	

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC		PERCENT				QUALITY RATINGS				MEAN
	COLOR	ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT			
GRAND SLAM GLD	5.7	76.7	7.3	7.7	6.7	6.0	6.0	6.3	6.7		
MAN O WAR	5.7	70.0	7.3	6.3	7.0	6.3	5.7	7.3	6.7		
PPG-PR 339	6.7	66.7	6.0	7.3	7.0	7.0	6.0	6.7	6.7		
PPG-PR 367	5.3	61.7	7.0	7.0	7.0	6.7	6.3	6.3	6.7		
PPG-PR 371	6.0	66.7	6.0	6.7	6.0	6.7	7.3	7.7	6.7		
PR-6-15	6.0	68.3	7.3	7.3	6.3	6.0	6.0	7.0	6.7		
PST-2EGAD	5.7	65.0	7.7	7.0	6.7	6.3	5.7	6.7	6.7		
PST-2PDA	5.3	71.7	7.7	7.3	6.0	6.7	6.0	6.3	6.7		
ASP0218 (A-6D)	7.3	60.0	6.3	6.3	7.0	6.7	6.7	6.3	6.6		
APR3060	7.0	66.7	6.0	6.3	7.7	6.3	7.0	6.0	6.6		
DLFPS-236/3545	5.0	73.3	7.0	7.0	6.7	6.0	6.3	6.7	6.6		
DLFPS-236/3553	6.0	66.7	6.3	7.3	5.7	6.3	7.0	7.0	6.6		
JR-197	6.3	58.3	6.7	6.3	7.0	6.0	6.7	7.0	6.6		
MRSL-PR15	7.7	56.7	5.0	7.0	7.3	6.3	7.0	7.0	6.6		
UMPQUA	4.7	68.3	6.7	7.0	6.0	6.3	6.3	7.3	6.6		
DLFPS-236/3550	6.3	65.0	6.7	7.3	6.3	5.3	6.0	7.3	6.5		
LPB-SD-102	7.3	75.0	7.3	6.7	6.3	5.7	5.7	7.3	6.5		
PPG-PR 241	6.3	71.7	5.7	6.3	7.0	6.0	6.3	7.7	6.5		
PPG-PR 343	6.3	71.7	6.3	6.3	7.0	6.0	6.3	7.0	6.5		
PPG-PR 385	5.3	63.3	6.7	7.3	6.3	5.7	6.7	6.3	6.5		
SAVANT	5.3	71.7	7.0	6.7	7.3	5.3	6.0	6.7	6.5		
ASP0117 (A-PR15)	7.3	65.0	6.3	7.3	6.3	5.3	6.3	6.7	6.4		
APR2616	5.7	66.7	6.7	7.0	7.0	6.0	6.0	6.0	6.4		
BWH	8.3	66.7	7.0	6.0	6.0	6.7	7.3	5.7	6.4		
DLFPS-236/3541	6.7	60.0	6.3	7.0	6.7	5.3	6.0	7.0	6.4		
SILVER SPORT (PST-2CRP)	5.3	53.3	6.3	5.7	7.0	7.0	6.7	6.0	6.4		
BSP-17	8.7	66.7	6.0	6.3	6.7	6.0	6.3	6.7	6.3		
EVOLVE	7.0	80.0	6.3	7.3	6.7	5.7	6.0	6.0	6.3		
GO-141	6.0	66.7	6.0	7.7	7.0	5.0	6.0	6.0	6.3		
JR-888	5.7	63.3	7.0	7.3	6.3	5.3	5.7	6.0	6.3		
LPB-SD-101	6.7	58.3	7.0	7.7	6.7	5.0	5.3	6.3	6.3		
PST-2FOXY	6.0	56.7	5.7	6.0	6.3	6.3	7.0	6.7	6.3		
PST-2MAY	6.7	61.7	6.3	6.3	7.0	5.3	6.7	6.3	6.3		
O21	6.0	70.0	6.3	6.7	5.7	5.7	6.3	6.3	6.2		
BAR LP 6158	6.0	66.7	6.0	6.7	7.0	5.3	6.0	6.3	6.2		
BAR LP 6164	5.3	63.3	6.7	6.7	6.7	5.3	5.7	6.3	6.2		
DLFPS-236/3544	5.7	60.0	6.3	7.0	5.3	5.7	6.0	6.7	6.2		
KARMA	5.3	66.7	7.0	6.3	6.0	5.7	5.7	6.7	6.2		
MENSA	7.0	66.7	6.7	7.3	6.3	5.3	5.0	6.3	6.2		
RAD-PR 112	7.7	63.3	6.7	6.7	5.7	6.0	6.0	6.0	6.2		
ASP0118GL (A-4G)	7.7	58.3	5.7	6.3	5.7	6.3	6.0	6.7	6.1		
BAR LP 6131	5.3	61.7	6.0	7.0	6.0	6.0	5.7	5.7	6.1		
BRIGHTSTAR SLT	5.7	65.0	6.3	6.7	6.0	5.3	6.7	5.3	6.1		
GO-143	7.0	63.3	6.7	6.7	6.0	5.0	6.3	5.7	6.1		
JR-747	6.3	63.3	5.7	7.0	7.3	5.3	6.0	5.0	6.1		
LPB-SD-105	7.0	51.7	6.3	7.0	8.0	5.7	4.3	5.0	6.1		
PST-2BDT	7.0	70.0	6.3	7.3	6.3	5.3	5.7	5.7	6.1		

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	QUALITY RATINGS							MEAN
			MAY	JUN	JUL	AUG	SEP	OCT		
SAGUARO	6.0	65.0	6.3	5.7	6.7	5.7	6.0	6.3	6.1	
SNX	8.3	71.7	5.3	6.7	6.3	5.7	6.3	6.3	6.1	
BAR LP 6117	6.0	68.3	5.7	6.3	7.0	5.0	5.7	5.7	5.9	
BAR LP 6159	6.3	65.0	6.3	7.3	6.0	5.0	5.3	5.7	5.9	
GO-142	6.3	65.0	6.7	6.7	5.7	5.3	5.3	5.7	5.9	
LPB-SD-103	6.7	63.3	6.3	6.7	6.7	5.3	4.7	6.0	5.9	
LPB-SD-104	7.3	60.0	5.3	6.3	6.3	5.7	5.3	6.7	5.9	
ALLSTAR III	5.0	70.0	6.3	6.0	6.3	5.3	5.3	5.7	5.8	
BAR LP 6233	4.0	75.0	5.3	5.7	6.0	6.0	5.7	6.3	5.8	
CS-6	7.0	73.3	6.0	6.0	5.3	5.7	6.0	6.0	5.8	
PEPPER II (RAD-PR 103)	6.7	53.3	6.0	6.7	6.7	5.7	4.7	5.0	5.8	
AMP-R1	7.3	58.3	6.3	6.3	5.7	5.7	5.3	5.0	5.7	
ASP0116EXT	9.0	70.0	5.3	5.7	6.0	6.0	6.3	4.7	5.7	
BSP-25	8.3	58.3	4.3	5.7	5.7	6.3	6.7	5.3	5.7	
MRS�-PR16	7.3	58.3	5.7	6.3	6.0	5.3	5.0	5.7	5.7	
DLFPS-238/3014	6.0	63.3	5.7	5.7	6.3	5.7	5.3	5.0	5.6	
APR2612	6.0	53.3	5.7	5.0	5.3	5.3	5.3	5.0	5.3	
BAR LP 6162	4.3	60.0	4.3	5.7	5.3	5.0	4.7	5.3	5.1	
BAR LP 6165	4.0	50.0	5.0	5.0	4.3	4.3	4.3	5.0	4.7	
LINN	2.7	75.0	3.0	5.0	4.0	4.0	4.0	4.7	4.1	
LSD VALUE	1.3	22.8	1.8	1.9	2.1	2.4	1.9	1.6	0.9	
C.V. (%)	13.0	13.0	14.6	12.7	14.7	15.4	15.2	13.4	8.5	

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CT1	SANDY LOAM	6.1-6.5	61-150	151-240	-	FULL SUN	1.1-1.5	TO PREVENT STRESS

TABLE 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SEEDLING VIGOR	QUALITY RATINGS							MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3554	5.7	4.7	7.7	7.0	8.7	6.7	6.0	6.0	6.3	6.9
FURLONG (LTP-FCB)	6.0	7.0	6.3	7.7	8.3	6.7	5.7	6.3	7.3	6.9
SILVER SPORT (PST-2CRP)	5.3	3.7	7.0	8.0	8.3	6.3	6.3	5.3	6.7	6.9
PST-2EGAD	6.3	5.3	6.3	7.3	7.3	6.7	6.7	6.3	7.3	6.9
GRAY WOLF (PST-2GAL)	6.0	5.3	7.0	6.3	7.7	6.7	6.7	6.7	7.0	6.9
UMPQUA	5.7	5.3	7.0	6.0	8.0	7.0	5.7	7.3	7.3	6.9
02BS1	5.7	6.0	7.7	7.0	8.0	6.0	6.0	5.7	7.0	6.8
ASPO118GL (A-4G)	5.3	6.0	7.0	7.3	8.3	6.0	5.3	6.3	7.0	6.8
CPN	6.0	7.7	8.0	7.0	8.0	6.0	6.0	6.0	6.3	6.8
GRAND SLAM GLD	5.7	7.0	7.0	7.0	8.0	6.7	6.0	6.3	6.7	6.8
LPB-SD-102	5.3	5.0	7.7	8.0	8.3	6.3	6.3	5.3	5.3	6.8
PPG-PR 372	5.7	5.3	6.7	7.7	8.0	6.3	5.3	7.0	6.7	6.8
PPG-PR 420	6.3	5.3	6.7	7.0	7.3	6.7	7.0	6.3	6.7	6.8
PST-2MAY	5.3	4.3	7.7	6.7	7.7	6.7	5.7	6.0	7.0	6.8
021	6.0	6.0	7.7	7.0	7.0	5.7	6.3	6.7	6.7	6.7
BAR LP 6233	7.0	6.3	6.0	6.3	6.3	7.7	7.3	7.0	6.3	6.7
DLFPS-236/3540	4.7	4.7	7.3	7.0	7.7	6.3	6.0	6.0	6.7	6.7
DLFPS-236/3544	6.0	5.3	7.3	6.7	8.0	6.0	6.3	6.0	6.7	6.7
SHIELD (02BS4)	6.0	7.3	6.3	6.7	6.7	6.0	7.0	6.3	7.0	6.6
ASPO116EXT	4.3	7.3	7.0	8.0	8.3	5.3	5.3	6.0	6.0	6.6
BAR LP 6165	7.7	3.7	6.3	6.0	5.7	8.0	7.7	6.3	6.0	6.6
DLFPS-236/3538	5.7	5.0	6.7	7.7	7.3	7.0	6.0	5.7	6.0	6.6
DLFPS-236/3542	5.0	5.3	8.0	7.3	8.0	5.7	5.7	5.3	6.3	6.6
LPB-SD-105	5.7	5.3	7.7	7.3	8.0	6.3	5.7	5.7	5.7	6.6
GRAY HAWK (PST-2FIND)	5.7	7.3	7.3	6.7	7.3	6.7	6.0	6.0	6.0	6.6
PST-2GTD	5.7	4.0	6.7	7.0	7.0	6.3	6.3	5.7	7.0	6.6
SEABISCUIT	5.3	7.7	6.7	7.7	7.7	5.3	5.7	6.3	6.7	6.6
FP2	5.0	5.3	6.7	7.0	7.3	6.3	6.0	6.0	6.3	6.5
MAN O WAR	5.3	5.0	7.7	6.7	7.7	5.3	5.0	6.0	7.0	6.5
PPG-PR 423	5.3	6.3	6.7	7.0	7.7	7.0	5.7	5.3	6.0	6.5
RRT	5.3	5.3	7.0	7.7	7.3	6.3	5.3	5.7	6.0	6.5
SNX	5.3	7.0	6.7	8.3	7.3	5.7	5.3	5.7	6.7	6.5
BAR LP 6164	6.0	4.3	6.7	6.3	7.7	7.0	6.0	5.3	5.7	6.4
BRIGHTSTAR SLT	5.0	7.7	6.7	7.7	8.0	5.3	5.3	5.7	6.3	6.4
BWH	5.7	6.7	6.3	7.7	8.0	6.0	5.3	5.0	6.7	6.4
DLFPS-236/3543	5.3	4.0	7.0	7.3	7.7	6.3	5.3	5.7	5.7	6.4
DLFPS-236/3547	5.3	5.0	7.3	7.0	7.7	6.3	5.3	5.7	5.7	6.4
LPB-SD-103	5.0	4.7	7.7	7.7	8.0	5.7	5.0	5.0	6.0	6.4
MRSL-PR16	5.7	6.3	6.7	7.0	7.0	5.7	5.7	6.3	6.3	6.4
NP-2	5.7	6.3	6.0	6.3	8.0	6.7	5.7	5.7	6.3	6.4
OVERDRIVE 5G	5.3	6.3	7.3	7.0	7.0	6.0	5.3	5.3	7.0	6.4
PHARAOH	4.7	6.3	7.0	7.0	6.7	5.3	5.7	6.7	6.3	6.4
PPG-PR 331	6.0	5.7	6.3	8.3	7.0	6.0	5.3	5.3	6.3	6.4
PPG-PR 343	5.7	4.7	5.7	8.7	7.7	7.0	4.7	5.0	6.3	6.4
PPG-PR 360	5.7	4.0	6.3	8.0	7.7	6.3	5.3	5.0	6.0	6.4
PPG-PR 371	6.0	4.3	6.7	8.3	7.3	5.7	5.3	5.3	6.3	6.4
PPG-PR 385	6.7	5.7	6.3	7.3	7.3	6.3	5.7	6.0	6.0	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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SEEDLING VIGOR	QUALITY RATINGS							MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-PR 422	6.7	5.7	6.3	7.3	7.3	6.7	6.0	5.0	6.0	6.4
PEPPER II (RAD-PR 103)	5.3	3.0	5.0	8.0	8.0	6.0	6.0	5.3	6.7	6.4
BAR LP 6159	5.7	5.7	7.0	6.3	6.7	6.0	6.0	5.7	6.7	6.3
BSP-17	5.3	5.7	6.0	7.3	7.7	5.7	5.3	5.3	7.0	6.3
DLFPS-236/3548	5.3	4.0	6.3	8.3	7.3	6.3	5.3	5.0	5.7	6.3
DLFPS-238/3014	6.3	4.0	6.0	6.0	6.3	6.0	7.0	5.7	7.0	6.3
JR-197	5.0	6.7	8.0	7.0	7.0	5.3	5.0	5.7	6.0	6.3
MRS�-PR15	5.3	6.3	7.0	6.3	7.7	5.7	6.0	5.7	5.7	6.3
NP-3	5.7	6.0	6.7	7.0	7.0	6.0	5.7	6.0	6.0	6.3
PPG-PR 370	6.0	4.3	5.7	7.7	7.3	6.7	6.0	4.7	6.3	6.3
PPG-PR 421	5.0	7.0	6.7	6.7	7.7	7.0	6.3	4.7	5.3	6.3
PPG-PR 424	6.0	7.3	6.3	7.0	7.0	6.0	5.7	5.7	6.3	6.3
PR-5-16	5.7	4.3	7.0	6.7	7.3	6.7	5.7	5.7	5.3	6.3
PST-2FOXY	5.0	3.3	6.3	7.7	7.3	6.0	5.7	5.3	5.7	6.3
RAD-PR 112	5.3	3.3	5.3	7.7	8.3	5.7	5.3	5.3	6.3	6.3
023	5.7	6.7	6.0	7.7	7.3	6.3	5.3	5.0	5.7	6.2
ASP0218 (A-6D)	5.0	5.7	6.3	7.3	7.7	5.7	5.0	6.0	5.7	6.2
ASP0117 (A-PR15)	5.0	7.0	6.7	7.0	7.3	6.0	5.0	5.3	6.3	6.2
AMP-R1	4.7	4.3	6.0	8.0	7.0	6.0	5.3	5.0	6.3	6.2
APR3060	6.0	4.7	6.0	6.7	7.0	6.3	6.3	5.7	5.7	6.2
PPG-PR 241	5.3	5.3	7.0	7.3	7.3	6.0	5.3	5.0	5.7	6.2
02BS2	5.3	5.7	7.0	6.0	6.7	6.0	5.7	5.0	6.3	6.1
APR2612	6.0	3.7	6.3	7.0	6.7	5.7	5.3	5.7	6.3	6.1
APR2616	5.7	5.0	6.0	7.0	6.7	6.0	6.0	5.0	6.0	6.1
DLFPS-236/3553	4.7	5.3	7.3	7.0	6.7	6.0	5.0	5.3	5.3	6.1
INTENSE	5.3	6.0	6.7	6.7	6.3	5.7	6.0	5.3	6.0	6.1
PL2	5.3	7.0	7.7	7.7	6.7	5.7	4.7	5.0	5.3	6.1
PPG-PR 339	5.7	4.7	6.3	7.0	7.3	6.3	5.3	5.0	5.7	6.1
PPG-PR 367	4.3	4.0	6.7	7.0	6.3	6.0	5.3	5.7	5.7	6.1
PR-6-15	5.3	5.0	5.7	7.3	8.0	6.0	4.7	5.3	6.0	6.1
PST-2BDT	4.3	5.7	6.0	7.3	7.7	6.0	4.7	5.0	6.3	6.1
SAVANT	6.0	7.0	7.3	6.3	8.0	5.7	5.3	4.7	5.7	6.1
XCELERATOR	5.7	6.3	7.0	6.3	6.7	6.0	5.3	5.3	6.0	6.1
BAR LP 6117	5.7	5.3	5.7	6.3	7.3	6.3	6.7	4.7	5.3	6.0
BAR LP 6131	6.3	5.0	6.3	6.0	6.0	6.3	6.3	5.7	5.7	6.0
BAR LP 6162	6.7	3.0	5.7	6.3	6.7	6.7	6.0	5.0	5.3	6.0
BSP-25	5.7	4.7	5.3	6.7	7.7	6.3	5.3	5.0	6.0	6.0
DLFPS-236/3545	4.7	4.7	7.0	6.7	7.0	5.3	5.0	5.3	6.0	6.0
DLFPS-236/3550	4.7	3.3	5.3	7.3	7.7	5.7	5.0	5.0	5.7	6.0
DLFPS-236/3552	5.0	3.7	5.7	8.0	7.3	6.7	5.0	5.0	4.7	6.0
PPG-PR 329	5.0	5.0	6.3	6.0	6.7	5.7	5.7	5.3	6.0	6.0
PPG-PR 419	5.3	7.3	7.0	6.7	6.0	5.7	5.7	5.3	6.0	6.0
PST-2PDA	5.0	7.0	6.0	6.0	7.0	5.7	5.7	5.7	6.0	6.0
SAGUARO	4.7	4.7	6.7	7.3	8.0	5.7	4.7	4.0	5.3	6.0
SR 4650	4.7	7.7	7.0	6.7	7.0	6.0	5.0	5.0	5.7	6.0
CS-6	4.7	5.0	6.3	6.7	7.3	5.3	4.7	4.7	6.3	5.9
DERBY XTREME	4.0	6.3	5.7	7.7	7.0	5.3	5.0	5.0	5.7	5.9

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SEEDLING VIGOR	QUALITY RATINGS							MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3556	5.3	7.3	6.3	7.0	7.0	5.7	4.7	5.0	5.7	5.9
LPB-SD-101	4.7	5.0	6.7	6.7	7.0	6.0	5.0	4.7	5.0	5.9
SIGNET	5.0	8.0	6.3	6.3	7.7	5.7	5.0	5.3	4.7	5.9
UF3	6.0	5.7	7.0	6.0	6.0	5.7	5.3	5.7	5.3	5.9
ALLSTAR III	4.3	6.3	6.0	6.3	7.0	5.7	4.7	5.0	5.7	5.8
BAR LP 6158	5.3	5.3	5.7	6.3	6.7	5.7	5.0	4.7	6.3	5.8
GO-141	4.3	4.3	6.3	7.0	6.7	5.0	5.0	5.3	5.3	5.8
KARMA	4.0	4.3	6.0	6.3	6.7	5.3	4.7	5.0	6.3	5.8
MENSA	4.3	5.0	6.0	7.0	7.3	6.3	4.7	4.0	5.0	5.8
PST-2A2	4.3	6.3	6.3	7.0	7.0	5.7	4.7	5.0	5.0	5.8
DLFPS-236/3546	4.7	3.3	6.0	6.3	7.0	5.7	4.7	4.7	5.0	5.6
EVOLVE	4.7	7.0	6.3	6.0	6.3	5.7	5.0	5.0	4.7	5.6
GO-143	4.7	4.3	5.7	6.3	6.7	5.7	4.3	5.0	5.7	5.6
JR-123	4.3	4.0	6.0	7.0	6.3	5.0	4.7	4.7	5.7	5.6
JR-888	4.7	6.3	6.3	6.3	6.3	5.3	5.3	4.7	5.0	5.6
LPB-SD-104	5.3	4.3	6.3	6.7	7.3	5.7	4.3	4.3	4.7	5.6
DLFPS-236/3541	5.0	4.3	6.0	7.0	6.3	5.7	5.0	4.3	4.3	5.5
GO-142	4.3	4.7	5.7	7.0	6.0	5.0	4.7	4.3	5.3	5.4
JR-747	4.0	5.7	6.0	6.3	6.7	5.7	4.3	4.0	4.7	5.4
LINN	6.7	3.7	4.3	4.7	5.0	5.7	7.0	5.0	5.7	5.3
LSD VALUE	2.1	1.7	1.7	1.8	3.2	2.9	1.5	6.0	4.1	2.6
C.V. (%)	16.8	19.6	12.6	12.0	14.0	14.0	13.8	21.7	17.6	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 A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY

TABLE 5.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT URBANA, IL 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	FALL			QUALITY RATINGS				MEAN
			COLOR NOVEMBER	APR	MAY	JUN	AUG	SEP	OCT	
PEPPER II (RAD-PR 103)	8.0	9.0	7.3	9.0	8.7	8.0	7.3	6.3	8.0	7.9
ASP0118GL (A-4G)	7.7	8.0	6.3	8.3	8.0	7.7	7.7	6.7	8.7	7.8
MRSI-PR16	8.0	8.3	6.0	8.3	8.3	7.3	8.0	6.3	8.7	7.8
RAD-PR 112	7.7	8.7	6.0	8.7	8.0	8.0	7.7	6.3	8.3	7.8
PL2	7.7	8.3	6.3	8.0	9.0	7.0	7.0	6.7	8.3	7.7
PPG-PR 423	8.0	9.0	6.7	9.0	8.7	7.7	7.3	5.7	8.0	7.7
PST-2FOXY	7.3	8.7	7.0	8.7	8.3	7.7	7.3	6.0	8.0	7.7
AMP-R1	7.7	8.0	6.0	8.3	8.3	7.0	7.3	6.3	8.3	7.6
DLFPS-236/3542	7.3	8.3	6.3	8.3	8.3	7.0	7.3	6.3	8.3	7.6
DLFPS-236/3544	8.0	8.7	6.0	8.3	9.0	7.0	7.0	6.0	8.0	7.6
DLFPS-236/3554	7.7	8.3	6.7	7.7	8.0	7.3	8.0	6.3	8.3	7.6
PPG-PR 339	8.0	8.3	6.7	7.7	7.7	7.0	7.3	7.0	8.7	7.6
PPG-PR 343	7.7	8.7	7.0	8.0	8.3	7.3	7.3	6.3	8.3	7.6
PPG-PR 420	7.3	8.0	6.0	8.0	8.0	8.0	7.7	6.3	7.7	7.6
PPG-PR 424	8.0	8.0	6.3	8.3	8.3	7.7	6.7	6.0	8.3	7.6
SNX	8.0	7.7	6.7	7.7	8.3	7.3	7.3	6.7	8.0	7.6
XCELERATOR	8.0	8.7	6.3	9.0	8.7	6.7	7.0	6.0	8.0	7.6
ASP0218 (A-6D)	7.0	8.3	6.3	7.7	8.0	7.3	7.7	6.3	8.0	7.5
ASP0116EXT	7.7	8.0	6.3	8.0	8.0	7.3	8.0	6.0	7.7	7.5
BSP-25	8.0	8.7	6.7	8.3	8.3	7.3	7.3	5.7	8.0	7.5
DLFPS-236/3547	7.3	8.7	6.7	8.7	8.0	7.3	6.7	6.3	8.0	7.5
DLFPS-236/3548	7.3	8.3	6.3	8.0	8.7	7.0	7.3	6.0	8.0	7.5
DLFPS-236/3556	8.7	8.7	5.7	8.0	8.7	7.3	7.0	6.3	7.7	7.5
PPG-PR 422	7.7	8.7	6.3	8.3	8.0	7.3	6.7	6.3	8.3	7.5
PST-2MAY	7.3	8.3	7.0	8.3	8.0	7.3	7.3	6.0	8.0	7.5
BWH	8.3	9.0	7.3	8.0	8.3	6.7	7.3	6.0	8.0	7.4
DLFPS-236/3540	8.0	8.3	6.3	7.7	8.3	7.0	7.3	6.0	8.0	7.4
GO-143	7.7	8.7	7.0	8.0	7.7	7.0	7.3	6.3	8.3	7.4
NP-2	7.7	8.7	6.3	7.7	8.0	7.3	7.0	6.3	8.0	7.4
NP-3	7.3	7.7	7.0	7.7	8.7	7.3	7.3	6.0	7.7	7.4
PPG-PR 331	7.7	8.0	6.0	8.0	7.7	7.3	6.7	6.3	8.3	7.4
PPG-PR 385	7.0	7.7	6.7	8.0	8.3	7.0	7.0	6.3	8.0	7.4
PPG-PR 421	7.3	8.3	6.0	8.0	8.3	7.7	6.7	6.0	8.0	7.4
PR-6-15	7.3	8.3	7.3	7.7	7.7	7.0	7.3	6.3	8.3	7.4
PST-2A2	8.3	8.7	7.0	8.3	8.0	7.3	7.0	6.3	7.7	7.4
PST-2EGAD	8.0	7.7	6.7	7.3	7.7	6.7	7.3	7.0	8.3	7.4
PST-2GTD	6.7	8.0	6.7	7.7	8.0	7.0	7.7	6.0	8.3	7.4
SEABISCUIT	7.7	8.3	6.3	8.3	8.0	7.0	7.0	5.7	8.3	7.4
UMPQUA	8.0	7.7	6.3	8.0	8.0	7.0	7.0	6.3	8.0	7.4
O2BS1	7.7	8.3	7.0	8.0	8.3	7.0	7.0	5.7	7.7	7.3
ASP0117 (A-PR15)	7.3	7.7	6.0	7.7	7.7	7.0	7.3	6.0	8.3	7.3
CPN	8.0	8.3	7.0	7.7	8.0	6.7	7.0	6.3	8.0	7.3
CS-6	7.3	7.7	6.7	7.7	8.3	6.7	7.3	6.0	7.7	7.3
DLFPS-236/3546	7.7	8.3	5.7	8.0	8.0	7.0	6.7	6.0	8.0	7.3
JR-197	8.0	8.3	6.0	8.0	8.0	6.7	7.0	6.3	7.7	7.3
FURLONG (LTP-FCB)	7.3	8.0	7.0	7.7	8.0	6.7	7.7	5.7	8.0	7.3
MENSA	7.7	7.7	6.3	8.7	9.0	6.3	6.3	6.0	7.7	7.3

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	FALL	QUALITY RATINGS							MEAN
			COLOR NOVEMBER	APR	MAY	JUN	AUG	SEP	OCT		
MRSL-PR15	6.7	8.0	6.7	7.3	7.3	7.3	7.7	6.3	8.0	7.3	
PPG-PR 371	7.7	8.0	6.7	7.3	7.7	7.0	7.0	6.3	8.3	7.3	
023	7.7	7.7	6.3	7.3	7.7	6.7	7.3	6.0	8.0	7.2	
APR2612	8.0	8.7	6.3	8.0	8.3	7.3	6.0	5.7	8.0	7.2	
APR2616	8.0	8.7	7.0	8.0	8.3	7.7	6.0	5.7	7.7	7.2	
BAR LP 6164	7.0	8.0	5.7	7.7	8.3	7.0	6.3	6.0	7.7	7.2	
BRIGHTSTAR SLT	7.3	7.3	6.3	7.3	7.7	6.3	7.3	6.3	8.0	7.2	
BSP-17	8.3	8.3	6.3	7.3	7.3	6.7	7.3	6.3	8.3	7.2	
DERBY XTREME	8.0	8.3	6.3	7.7	8.0	6.3	7.3	6.0	8.0	7.2	
DLFPS-236/3545	7.3	8.3	5.7	8.0	8.0	7.3	6.3	5.3	8.0	7.2	
DLFPS-236/3550	7.7	8.0	6.3	8.3	8.0	6.7	6.3	6.0	8.0	7.2	
DLFPS-236/3552	8.0	8.3	6.0	7.7	8.7	6.3	7.0	6.0	7.7	7.2	
GO-142	7.3	8.0	6.3	8.0	8.0	7.0	6.7	5.7	7.7	7.2	
INTENSE	7.7	8.7	6.3	8.3	7.7	7.7	6.3	5.3	7.7	7.2	
LPB-SD-103	8.3	8.0	6.3	8.0	8.0	6.7	6.0	6.0	8.3	7.2	
MAN O WAR	7.3	8.3	6.7	8.7	8.3	6.3	6.7	5.7	7.7	7.2	
OVERDRIVE 5G	7.7	8.0	6.7	8.3	7.7	7.3	6.3	5.7	7.7	7.2	
PHARAOH	7.3	8.3	6.7	8.3	8.7	7.3	6.3	5.3	7.3	7.2	
PPG-PR 241	7.3	7.7	6.7	7.3	7.3	7.0	7.3	6.3	8.0	7.2	
PPG-PR 360	8.3	8.3	6.7	7.3	8.0	7.0	7.0	6.0	7.7	7.2	
PPG-PR 419	7.7	8.0	6.0	7.7	7.7	7.7	6.7	6.0	7.7	7.2	
PR-5-16	7.0	8.0	6.7	7.7	8.0	6.7	7.0	6.3	7.7	7.2	
SIGNET	6.7	7.7	6.3	8.0	8.0	7.0	6.3	6.0	7.7	7.2	
ALLSTAR III	8.0	8.0	6.7	7.3	8.3	7.0	6.3	5.7	7.7	7.1	
BAR LP 6117	8.0	8.3	6.7	7.7	8.0	7.3	6.7	5.7	7.0	7.1	
BAR LP 6162	7.7	7.7	7.0	7.7	8.3	6.3	6.3	6.0	8.0	7.1	
DLFPS-236/3543	7.7	7.7	6.0	7.7	7.7	6.3	7.3	6.0	7.7	7.1	
GRAND SLAM GLD	7.7	8.0	5.7	8.0	8.3	6.7	6.3	6.0	7.3	7.1	
KARMA	8.0	8.3	6.0	8.3	8.7	6.7	5.7	5.7	7.7	7.1	
PPG-PR 329	7.3	8.0	6.7	7.3	8.0	7.0	6.7	5.7	7.7	7.1	
PPG-PR 372	7.0	7.3	6.3	7.3	7.7	7.0	6.3	6.0	8.0	7.1	
GRAY HAWK (PST-2FIND)	7.3	7.0	6.3	7.3	7.7	7.0	6.7	5.7	8.3	7.1	
GRAY WOLF (PST-2GAL)	8.3	8.0	6.3	7.7	7.3	6.7	7.3	5.7	8.0	7.1	
UF3	7.3	8.0	6.7	7.3	8.0	6.3	6.7	6.0	8.0	7.1	
02BS2	7.7	7.7	5.3	7.0	8.0	6.0	7.3	5.7	8.0	7.0	
BAR LP 6131	7.3	7.3	6.3	6.7	7.7	6.0	7.0	6.3	8.3	7.0	
DLFPS-236/3538	8.3	8.0	6.3	8.0	8.0	6.7	6.3	5.3	7.7	7.0	
DLFPS-236/3553	8.0	8.3	6.0	8.0	7.7	6.3	6.7	5.7	7.7	7.0	
GO-141	7.7	8.3	6.3	8.0	8.0	6.7	6.0	5.7	7.7	7.0	
021	7.7	8.0	7.0	7.7	8.0	5.7	7.0	5.3	7.7	6.9	
DLFPS-236/3541	8.0	8.0	6.3	7.3	7.7	6.0	7.0	6.0	7.7	6.9	
EVOLVE	7.7	7.3	6.0	7.3	7.7	5.7	7.0	6.0	8.0	6.9	
JR-123	7.0	8.3	5.7	7.3	7.3	6.7	7.3	5.3	7.7	6.9	
JR-888	7.0	7.7	5.3	7.0	7.3	6.7	6.0	6.0	8.3	6.9	
LPB-SD-101	7.3	7.7	6.3	8.0	8.0	6.3	5.7	5.7	8.0	6.9	
PST-2BDT	8.0	7.7	6.7	7.0	7.3	6.7	7.0	6.0	7.3	6.9	
SILVER SPORT (PST-2CRP)	8.0	8.3	6.3	7.3	8.0	6.7	6.3	5.3	8.0	6.9	

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	FALL	APR	MAY	QUALITY RATINGS		SEP	OCT	MEAN
			COLOR NOVEMBER			JUN	AUG			
RRT	7.7	8.0	6.7	7.3	8.0	6.7	6.7	5.0	7.7	6.9
SAGUARO	7.7	8.3	6.3	8.0	7.3	6.3	6.0	5.3	8.3	6.9
SAVANT	7.3	7.7	6.7	7.3	8.0	6.3	6.0	6.0	7.7	6.9
BAR LP 6158	7.7	8.7	6.3	7.7	8.3	6.7	6.0	5.0	7.3	6.8
BAR LP 6159	7.3	7.3	5.7	7.3	7.7	6.3	6.7	5.3	7.7	6.8
BAR LP 6233	7.3	7.0	6.3	7.3	7.7	6.7	6.0	5.3	8.0	6.8
LPB-SD-102	8.0	8.3	6.7	8.0	7.7	6.0	6.0	5.7	7.7	6.8
PST-2PDA	8.0	7.0	7.0	7.0	7.7	6.7	6.3	5.7	7.7	6.8
SR 4650	8.0	8.7	6.0	8.0	7.7	6.7	5.3	5.7	7.7	6.8
DLFPS-238/3014	6.0	6.7	6.7	7.3	8.0	5.3	6.3	5.3	7.7	6.7
FP2	7.3	8.0	6.7	7.0	7.0	6.7	6.3	5.7	7.7	6.7
PPG-PR 367	7.0	8.3	6.7	7.3	7.7	6.0	5.7	5.7	8.0	6.7
PPG-PR 370	8.0	8.0	6.3	7.7	7.3	6.3	6.0	5.3	7.3	6.7
SHIELD (02BS4)	8.0	7.3	6.0	7.3	7.3	6.3	6.0	5.0	7.3	6.6
APR3060	7.3	8.0	5.7	8.7	8.3	6.7	4.3	3.7	7.3	6.5
LPB-SD-105	8.3	8.3	6.3	8.0	8.0	6.0	5.0	4.7	7.3	6.5
BAR LP 6165	6.3	7.0	6.0	7.0	8.0	5.3	5.0	5.3	7.7	6.4
JR-747	7.3	7.3	5.7	7.0	8.0	5.7	4.3	4.7	7.3	6.2
LPB-SD-104	8.0	8.0	6.0	7.0	7.7	5.7	3.7	4.3	7.0	5.9
LINN	4.3	6.0	3.0	3.0	3.7	1.7	1.7	2.0	4.7	2.8
LSD VALUE	2.3	1.2	1.3	1.4	1.7	1.5	1.2	1.0	2.3	0.7
C.V. (%)	10.5	7.4	10.2	9.4	9.5	12.1	11.0	10.2	9.0	6.2

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS

TABLE 6. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
 2017 DATA
 SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	SEEDLING VIGOR
UMPQUA	8.0
GRAND SLAM GLD	7.7
LPB-SD-101	7.7
PPG-PR 331	7.7
PPG-PR 360	7.7
PPG-PR 370	7.7
PPG-PR 385	7.7
PPG-PR 421	7.7
ASP0117 (A-PR15)	7.3
BAR LP 6159	7.3
DLFPS-236/3540	7.3
JR-747	7.3
OVERDRIVE 5G	7.3
PPG-PR 329	7.3
PPG-PR 343	7.3
PPG-PR 423	7.3
O23	7.0
O2BS2	7.0
APR3060	7.0
BWH	7.0
CPN	7.0
DLFPS-236/3545	7.0
DLFPS-236/3546	7.0
DLFPS-236/3547	7.0
GO-141	7.0
GO-142	7.0
JR-123	7.0
NP-2	7.0
NP-3	7.0
PHARAOH	7.0
PPG-PR 241	7.0
PPG-PR 339	7.0
PPG-PR 367	7.0
PPG-PR 371	7.0
PPG-PR 372	7.0
PPG-PR 424	7.0
GRAY HAWK (PST-2FIND)	7.0
RRT	7.0
SIGNET	7.0
SHIELD (O2BS4)	6.7
ALLSTAR III	6.7
AMP-R1	6.7
APR2616	6.7
BAR LP 6117	6.7
BAR LP 6131	6.7
BRIGHTSTAR SLT	6.7
CS-6	6.7

TABLE 6.
(CONT'D)

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
2017 DATA
SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	SEEDLING VIGOR
DLFPS-236/3541	6.7
DLFPS-236/3542	6.7
DLFPS-236/3543	6.7
DLFPS-236/3544	6.7
DLFPS-236/3550	6.7
DLFPS-236/3556	6.7
EVOLVE	6.7
FP2	6.7
JR-888	6.7
LPB-SD-103	6.7
MENSA	6.7
PL2	6.7
PPG-PR 419	6.7
PPG-PR 422	6.7
PR-6-15	6.7
SILVER SPORT (PST-2CRP)	6.7
PST-2GTD	6.7
PST-2PDA	6.7
SAVANT	6.7
SNX	6.7
ASP0118GL (A-4G)	6.3
APR2612	6.3
ASP0116EXT	6.3
BAR LP 6158	6.3
BAR LP 6164	6.3
BAR LP 6233	6.3
BSP-25	6.3
DERBY XTREME	6.3
DLFPS-236/3548	6.3
DLFPS-236/3553	6.3
DLFPS-236/3554	6.3
DLFPS-238/3014	6.3
INTENSE	6.3
JR-197	6.3
LPB-SD-102	6.3
LPB-SD-105	6.3
MAN O WAR	6.3
MRSL-PR16	6.3
PR-5-16	6.3
PST-2BDT	6.3
PST-2EGAD	6.3
SEABISCUIT	6.3
SR 4650	6.3
XCELERATOR	6.3
O21	6.0
BAR LP 6165	6.0
BSP-17	6.0

TABLE 6. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MANHATTAN, KS 1/
 2017 DATA
 SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	SEEDLING VIGOR
GO-143	6.0
LPB-SD-104	6.0
FURLONG (LTP-FCB)	6.0
PPG-PR 420	6.0
PST-2FOXY	6.0
SAGUARO	6.0
UF3	6.0
ASPO218 (A-6D)	5.7
BAR LP 6162	5.7
DLFPS-236/3538	5.7
DLFPS-236/3552	5.7
MRS�-PR15	5.7
GRAY WOLF (PST-2GAL)	5.7
PEPPER II (RAD-PR 103)	5.7
RAD-PR 112	5.7
O2BS1	5.0
PST-2A2	5.0
LINN	4.7
LSD VALUE	1.5
C.V. (%)	10.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
KS1	-	-	-	-	-	-	-	-

TABLE 7. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/ 2017 DATA TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SEEDLING	QUALITY RATINGS							MEAN
	VIGOR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3547	5.7	7.3	8.0	7.7	6.7	7.0	6.7	7.3	7.2
PPG-PR 419	5.3	7.3	7.7	7.0	6.7	7.0	7.0	7.7	7.2
PPG-PR 421	5.7	7.3	8.0	7.7	6.3	7.0	7.0	7.3	7.2
DLFPS-236/3554	6.0	7.7	7.7	7.3	6.7	6.7	6.7	7.3	7.1
FURLONG (LTP-FCB)	5.7	7.3	7.0	7.3	7.0	7.3	6.7	7.0	7.1
PPG-PR 424	5.3	7.0	7.7	7.7	6.7	7.0	6.7	7.0	7.1
DLFPS-236/3553	5.3	7.7	7.7	7.3	6.3	6.7	6.7	7.0	7.0
PL2	5.7	7.3	7.7	7.0	6.3	6.3	6.7	7.3	7.0
PPG-PR 370	6.0	7.0	8.0	7.7	6.3	7.0	6.3	7.0	7.0
PPG-PR 371	5.7	7.3	7.3	7.3	7.0	6.7	6.3	7.0	7.0
PPG-PR 372	5.7	7.3	7.7	7.7	6.7	6.7	6.3	6.7	7.0
PR-5-16	6.0	7.7	7.7	8.0	6.0	6.7	6.3	6.7	7.0
PST-2BDT	5.0	7.3	7.3	7.3	6.3	6.7	6.7	7.0	7.0
SR 4650	5.0	7.3	7.7	7.7	6.7	7.0	6.0	6.7	7.0
SHIELD (O2BS4)	6.0	7.0	7.7	7.3	6.3	6.7	6.7	6.7	6.9
ASPO116EXT	5.3	7.3	7.7	8.0	6.0	6.7	5.7	6.7	6.9
DLFPS-236/3538	5.7	7.3	7.3	7.0	6.7	6.7	6.3	6.7	6.9
DLFPS-236/3540	4.7	7.0	7.3	7.3	6.3	6.7	6.3	7.0	6.9
DLFPS-236/3541	6.3	7.3	7.7	7.7	6.0	6.7	6.0	6.7	6.9
DLFPS-236/3543	5.7	7.0	7.3	7.3	7.0	7.0	6.3	6.3	6.9
DLFPS-236/3546	5.0	7.0	8.0	7.0	6.0	6.7	6.7	7.0	6.9
DLFPS-236/3548	6.0	7.3	7.3	7.7	6.7	6.3	6.0	6.7	6.9
DLFPS-236/3552	5.7	7.3	7.7	7.3	6.7	6.3	6.0	7.0	6.9
DLFPS-236/3556	5.3	6.7	7.3	7.7	6.3	7.0	6.7	6.7	6.9
MENSA	6.0	7.3	8.0	8.0	6.7	6.3	5.7	6.0	6.9
PPG-PR 329	5.7	7.0	7.3	7.0	6.3	6.7	6.7	7.0	6.9
PPG-PR 331	6.0	7.0	8.0	7.0	6.3	7.0	6.3	6.7	6.9
PPG-PR 343	5.3	7.3	7.3	7.0	6.3	6.7	6.3	7.3	6.9
PPG-PR 367	5.3	7.0	7.3	7.0	6.7	6.7	6.3	7.0	6.9
PPG-PR 420	5.3	7.3	7.0	7.0	6.3	7.0	6.3	7.0	6.9
PST-2A2	5.3	7.3	7.3	7.0	6.3	6.7	6.3	7.3	6.9
SILVER SPORT (PST-2CRP)	5.0	7.7	8.0	7.0	6.3	6.7	6.0	6.7	6.9
XCELERATOR	5.3	7.0	7.3	7.0	6.3	6.7	6.7	7.3	6.9
O2BS2	6.0	7.0	7.0	7.3	6.0	7.0	6.0	7.0	6.8
AMP-R1	6.0	7.3	7.7	7.3	6.0	6.7	6.0	6.3	6.8
DLFPS-236/3544	5.3	7.3	7.7	6.7	6.0	6.3	6.7	7.0	6.8
DLFPS-236/3545	5.7	7.0	7.7	7.3	6.0	6.7	6.0	6.7	6.8
GRAND SLAM GLD	6.0	7.3	7.7	7.3	6.7	6.3	6.0	6.0	6.8
JR-123	5.3	7.0	7.7	7.0	6.0	6.7	6.0	7.0	6.8
LPB-SD-102	6.0	7.3	8.0	7.3	6.3	6.3	5.7	6.3	6.8
PPG-PR 241	5.7	7.0	7.0	7.3	6.7	7.0	6.3	6.3	6.8
PPG-PR 339	6.0	7.3	7.3	7.0	6.0	7.0	6.0	6.7	6.8
PPG-PR 360	5.7	7.0	7.3	7.3	6.3	6.7	6.3	6.7	6.8
PPG-PR 422	5.7	7.3	7.7	7.0	6.0	6.7	6.0	7.0	6.8
PR-6-15	4.3	7.3	7.3	7.0	6.0	6.7	6.0	7.0	6.8
PST-2FOXY	5.3	7.3	7.7	7.0	6.0	6.7	6.0	6.7	6.8
GRAY WOLF (PST-2GAL)	5.3	6.3	7.3	7.0	6.3	7.0	6.3	7.0	6.8

TABLE 7.
(CONT'D)

2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SEEDLING	QUALITY RATINGS							
	VIGOR	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RRT	5.3	7.0	7.7	7.3	6.7	6.3	6.0	6.7	6.8
SIGNET	5.7	7.3	7.7	7.7	6.0	6.7	6.0	6.3	6.8
UMPQUA	6.3	7.0	7.7	7.3	6.0	6.7	6.3	6.7	6.8
023	6.0	7.0	7.0	7.0	6.3	6.7	6.3	6.3	6.7
02BS1	5.3	7.3	7.3	7.0	6.3	6.0	6.0	6.7	6.7
CPN	6.0	7.3	7.0	7.0	6.0	6.7	6.0	6.7	6.7
DLFPS-236/3542	4.7	7.3	7.3	7.3	6.7	6.7	5.7	6.0	6.7
FP2	5.7	7.0	7.3	7.3	6.3	7.0	5.7	6.0	6.7
JR-197	5.7	6.7	7.3	7.3	6.3	6.3	6.0	7.0	6.7
KARMA	5.3	7.3	7.7	7.0	6.0	6.3	6.3	6.3	6.7
NP-2	6.0	7.0	8.0	7.0	6.3	6.0	5.7	6.7	6.7
OVERDRIVE 5G	5.7	7.0	7.7	7.0	6.3	6.3	6.0	6.7	6.7
PHARAOH	6.0	7.0	7.7	7.0	6.0	6.3	6.0	6.7	6.7
PPG-PR 423	7.0	7.3	7.3	7.0	6.0	6.7	6.0	6.3	6.7
SEABISCUIT	6.7	7.0	7.0	7.0	6.0	6.7	6.3	6.7	6.7
ASPO117 (A-PR15)	5.7	7.0	7.3	7.0	6.0	6.3	6.0	6.7	6.6
APR2612	4.7	7.0	7.3	7.3	6.0	6.0	6.0	6.7	6.6
APR2616	5.3	7.0	7.7	7.0	6.0	6.3	6.0	6.0	6.6
APR3060	5.0	7.0	7.3	7.0	6.0	6.0	6.0	7.0	6.6
BAR LP 6159	6.3	7.3	7.3	7.0	6.7	6.7	5.7	5.7	6.6
CS-6	6.0	7.0	7.0	7.0	6.0	6.3	6.3	6.7	6.6
DERBY XTREME	6.0	7.3	7.0	7.0	6.0	6.7	5.7	6.3	6.6
DLFPS-236/3550	6.3	7.0	7.0	7.0	6.3	6.7	6.0	6.3	6.6
JR-747	5.0	7.3	7.7	7.7	6.0	6.3	5.7	5.3	6.6
LPB-SD-101	5.7	7.3	8.0	7.3	6.3	6.0	5.0	6.0	6.6
LPB-SD-104	5.3	8.0	7.7	7.3	6.7	6.0	4.7	5.7	6.6
PPG-PR 385	5.3	7.0	7.0	7.0	6.3	6.7	5.7	6.7	6.6
PST-2GTD	5.3	7.3	7.3	7.0	6.0	6.7	5.7	6.3	6.6
PST-2PDA	6.3	7.0	7.3	7.0	6.3	6.3	5.7	6.3	6.6
PEPPER II (RAD-PR 103)	5.0	7.0	7.3	7.3	6.0	6.3	6.0	6.3	6.6
RAD-PR 112	4.7	7.3	7.7	7.3	6.0	6.0	6.0	6.0	6.6
SNX	5.7	7.3	7.7	7.0	6.0	6.0	5.7	6.3	6.6
UF3	6.0	7.0	7.3	7.0	6.0	6.3	6.0	6.3	6.6
021	5.0	7.0	7.0	7.0	6.0	6.3	6.3	6.0	6.5
ASPO118GL (A-4G)	5.7	7.0	7.3	7.0	6.0	6.3	5.7	6.3	6.5
BAR LP 6117	6.3	7.0	7.0	7.0	6.7	6.3	5.7	6.0	6.5
BAR LP 6131	5.3	7.3	7.0	7.0	6.0	6.0	6.3	6.0	6.5
BAR LP 6158	6.3	7.0	6.7	7.0	6.0	6.7	6.0	6.0	6.5
GO-142	5.7	7.3	7.3	6.7	6.0	6.0	6.0	6.0	6.5
GO-143	5.7	7.0	7.7	7.0	6.0	6.0	5.7	6.3	6.5
INTENSE	5.7	7.0	7.0	7.0	6.0	6.3	6.0	6.0	6.5
MAN O WAR	6.0	7.0	7.0	7.0	6.0	6.3	6.0	6.0	6.5
NP-3	5.7	7.0	7.3	7.3	6.0	6.3	5.3	6.3	6.5
PST-2EGAD	5.3	6.7	6.7	7.0	6.3	6.7	6.0	6.3	6.5
PST-2MAY	5.3	7.0	7.0	7.0	6.3	6.7	5.7	6.0	6.5
ASPO218 (A-6D)	6.0	7.0	7.0	7.0	6.0	6.0	5.7	6.0	6.4
ALLSTAR III	5.7	7.0	7.7	7.0	6.0	6.0	5.3	6.0	6.4

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SEEDLING	QUALITY RATINGS							MEAN
	VIGOR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
BAR LP 6164	5.3	7.0	7.0	7.0	6.0	6.0	5.7	6.0	6.4
BAR LP 6233	5.7	6.0	7.0	7.0	6.7	6.3	5.7	6.3	6.4
LPB-SD-103	5.3	7.3	7.3	7.0	6.0	6.0	5.0	6.0	6.4
MRSL-PR15	5.7	7.0	7.0	7.0	6.0	6.0	6.0	6.0	6.4
MRSL-PR16	5.7	7.0	7.0	6.7	6.0	6.0	5.7	6.7	6.4
GRAY HAWK (PST-2FIND)	5.7	7.0	6.7	7.0	5.7	6.3	5.7	6.3	6.4
SAGUARO	6.0	7.3	7.3	7.7	5.7	5.7	5.0	6.0	6.4
SAVANT	6.3	7.0	7.7	8.0	6.7	5.3	4.7	5.7	6.4
BSP-25	5.7	7.3	7.3	7.0	5.7	5.7	5.0	6.0	6.3
BWH	5.3	7.3	7.7	7.0	6.0	6.0	4.7	5.7	6.3
GO-141	5.7	7.0	7.0	7.0	5.7	6.0	5.3	6.3	6.3
EVOLVE	6.3	7.0	7.0	7.0	5.3	6.0	5.7	5.7	6.2
JR-888	6.0	6.7	7.3	7.7	5.7	5.7	5.0	5.7	6.2
BAR LP 6165	5.0	6.3	6.3	5.7	5.3	6.3	6.3	6.3	6.1
BRIGHTSTAR SLT	5.7	7.0	7.3	7.3	6.0	5.3	4.3	5.3	6.1
BSP-17	6.0	7.0	6.7	6.7	5.7	6.0	5.3	5.7	6.1
BAR LP 6162	5.7	7.0	6.7	6.0	5.0	6.0	5.3	6.0	6.0
DLFPS-238/3014	5.0	6.3	6.3	6.3	5.7	6.0	5.3	6.3	6.0
LPB-SD-105	5.0	7.0	7.7	8.0	5.7	4.7	4.0	4.0	5.9
LINN	4.3	4.0	4.0	4.0	3.0	2.0	2.7	2.3	3.1
LSD VALUE	1.7	0.8	0.9	0.7	0.8	0.8	1.0	1.0	0.4
C.V. (%)	11.8	6.1	6.7	5.7	7.7	8.0	9.6	9.1	4.2

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

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

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT (%) DIVOT RECOVERY FROM MAY TO OCTOBER										
	MAY 3	MAY 24	JUNE 14	JUNE 29	JULY 19	AUGUST 2	AUGUST 15	AUGUST 31	SEPT. 20	OCT.15	OCT.31
DLFPS-236/3547	84.0	90.0	92.7	93.7	95.0	96.7	94.7	95.3	96.0	94.0	95.3
PPG-PR 419	83.0	90.0	92.7	93.3	96.3	97.0	96.0	94.7	94.0	91.3	90.7
PPG-PR 421	83.3	89.3	93.3	94.3	95.0	96.7	93.3	93.7	91.0	87.7	85.3
DLFPS-236/3554	83.7	90.0	92.0	93.0	94.0	95.7	93.0	93.3	92.7	90.7	88.0
FURLONG (LTP-FCB)	84.3	90.0	93.3	94.0	96.0	96.3	94.7	93.0	91.3	87.7	87.3
PPG-PR 424	88.3	88.3	91.7	93.3	94.7	97.7	93.3	95.0	95.0	93.7	92.3
DLFPS-236/3553	83.7	90.0	92.3	93.0	95.3	98.0	96.7	95.3	94.3	92.7	89.3
PL2	83.7	88.7	91.7	92.3	92.3	93.7	92.0	91.3	91.7	86.0	87.7
PPG-PR 370	81.7	89.7	92.7	94.0	95.7	97.3	97.0	94.0	93.0	90.3	87.0
PPG-PR 371	83.0	88.3	92.3	93.0	95.0	96.7	93.7	93.0	93.0	91.0	88.3
PPG-PR 372	83.0	91.7	95.3	96.0	96.3	97.7	95.3	94.0	90.3	88.7	87.7
PR-5-16	80.7	88.7	93.0	94.7	95.3	97.3	95.0	94.0	92.7	91.3	87.3
PST-2BDT	80.0	88.3	91.0	93.0	95.3	96.3	95.0	94.0	90.3	84.7	82.3
SR 4650	85.0	90.3	94.0	94.0	94.7	96.3	95.3	94.7	92.0	89.7	85.7
SHIELD (02BS4)	83.7	91.3	93.0	95.3	96.0	96.7	92.3	90.7	88.7	87.0	89.0
ASP0116EXT	81.3	87.7	91.7	92.7	92.7	93.7	92.0	90.0	86.0	79.3	81.7
DLFPS-236/3538	81.0	89.0	93.3	94.7	96.3	97.0	92.7	89.0	88.0	85.7	82.0
DLFPS-236/3540	81.7	86.0	89.3	90.3	93.7	95.7	94.7	94.0	93.0	89.0	87.7
DLFPS-236/3541	83.0	89.0	92.3	93.7	95.0	96.3	92.7	92.7	90.3	87.7	86.7
DLFPS-236/3543	86.0	90.3	93.3	95.3	95.7	96.7	95.0	93.7	92.7	90.3	86.3
DLFPS-236/3546	85.0	92.0	94.0	94.7	95.3	96.3	96.0	95.3	95.7	93.3	93.0
DLFPS-236/3548	84.3	88.3	91.3	91.0	92.3	95.3	94.0	92.3	90.0	87.7	82.0
DLFPS-236/3552	82.0	89.3	92.7	93.7	95.3	96.0	93.3	92.3	90.7	86.7	87.7
DLFPS-236/3556	82.3	89.3	92.7	94.0	95.7	97.0	96.0	95.0	94.3	92.3	89.0
MENSA	83.3	89.3	93.0	93.7	96.0	96.3	94.3	89.7	80.7	80.0	74.3
PPG-PR 329	81.7	89.0	92.3	94.0	95.0	95.0	92.0	93.0	93.7	90.7	90.0
PPG-PR 331	84.7	89.0	92.0	92.7	95.3	97.0	94.0	93.7	92.7	90.0	87.0
PPG-PR 343	83.7	85.7	87.3	89.0	91.7	92.7	92.7	90.0	89.3	86.7	82.3
PPG-PR 367	80.3	88.0	93.0	94.0	95.7	97.0	96.0	95.7	94.0	89.7	87.0
PPG-PR 420	83.7	90.3	93.7	94.3	95.3	96.7	96.0	94.7	94.3	92.3	88.7
PST-2A2	84.7	92.0	94.0	94.3	96.3	96.0	95.0	93.7	91.7	89.7	89.3
SILVER SPORT (PST-2CRP)	83.3	87.0	89.0	89.0	92.3	94.0	92.0	92.0	87.3	82.7	80.0
XCELERATOR	83.3	90.0	93.0	94.0	96.0	97.7	96.3	95.7	95.0	92.7	92.3
02BS2	82.0	90.7	94.0	95.0	95.7	97.0	96.0	93.0	92.7	88.0	87.0
AMP-R1	81.7	87.7	92.7	93.3	94.3	93.7	91.3	90.7	89.0	81.3	79.7
DLFPS-236/3544	81.0	84.7	87.3	88.7	91.0	93.7	91.3	91.3	89.7	85.3	84.0
DLFPS-236/3545	86.7	91.7	94.7	96.3	96.0	97.3	94.0	94.3	94.3	91.0	90.0
GRAND SLAM GLD	85.0	91.3	93.3	94.7	92.7	93.3	89.7	87.7	84.3	82.7	82.3
JR-123	87.3	90.7	93.3	94.0	94.3	95.3	92.3	91.3	90.0	86.0	86.0
LPB-SD-102	86.7	90.3	94.0	94.7	95.3	96.3	92.7	90.3	76.3	74.7	70.0
PPG-PR 241	81.0	87.3	91.3	93.0	95.3	96.0	92.3	91.7	90.0	88.0	84.7
PPG-PR 339	84.0	88.0	89.0	91.0	92.3	94.3	93.7	90.7	89.7	84.7	84.0
PPG-PR 360	86.3	89.7	93.3	94.0	95.0	96.0	92.3	91.7	89.3	85.3	83.3
PPG-PR 422	81.7	88.3	91.3	92.7	94.3	94.0	93.7	94.0	92.7	89.3	87.7
PR-6-15	83.0	87.3	90.0	90.7	90.7	94.3	94.0	91.7	91.7	86.3	84.0
PST-2FOXY	80.3	85.7	91.0	92.0	94.0	96.0	93.7	91.7	90.7	86.7	82.3
GRAY WOLF (PST-2GAL)	84.7	91.3	94.7	96.3	96.0	97.7	96.7	95.0	94.7	92.3	90.0

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT (%) DIVOT RECOVERY FROM MAY TO OCTOBER										
	MAY 3	MAY 24	JUNE 14	JUNE 29	JULY 19	AUGUST 2	AUGUST 15	AUGUST 31	SEPT. 20	OCT.15	OCT.31
RRT	79.3	89.3	92.0	92.7	93.7	93.7	89.7	88.3	86.3	81.0	81.7
SIGNET	83.7	90.3	93.3	95.0	95.3	93.3	90.0	88.7	84.7	84.0	83.3
UMPQUA	82.0	88.3	92.3	94.0	95.7	97.7	94.7	94.0	90.3	88.3	83.7
O23	81.7	88.7	92.7	93.7	95.7	97.0	92.3	91.7	90.3	89.7	86.7
O2BS1	81.3	88.0	91.7	94.0	95.0	94.3	93.0	89.0	88.7	83.0	82.3
CPN	83.7	89.7	93.3	94.3	95.3	95.0	92.3	90.0	87.3	85.7	80.0
DLFPS-236/3542	83.0	87.7	89.7	91.0	92.3	95.3	93.3	92.0	86.7	84.0	79.7
FP2	81.7	89.7	94.3	95.3	97.0	97.0	97.0	95.7	93.7	89.3	85.3
JR-197	82.7	89.0	92.0	94.0	94.7	94.0	90.0	88.7	87.7	84.0	84.7
KARMA	83.3	87.0	89.3	91.3	92.0	93.0	91.0	88.3	88.0	84.7	79.0
NP-2	85.3	91.0	93.3	94.0	94.3	93.3	88.0	87.3	82.7	81.0	78.0
OVERDRIVE 5G	81.7	89.0	92.0	93.3	96.3	95.0	90.7	89.3	89.0	83.3	80.7
PHARAOH	82.3	89.0	91.3	92.7	93.0	95.7	93.7	90.3	85.3	81.3	78.0
PPG-PR 423	80.7	84.7	88.7	89.0	90.0	90.7	87.7	86.3	83.3	82.0	81.3
SEABISCUIT	83.3	88.0	91.3	91.3	93.3	96.3	94.3	94.7	93.7	89.3	90.0
ASP0117 (A-PR15)	84.7	90.3	93.0	93.7	92.0	94.3	93.3	93.3	91.7	89.3	88.7
APR2612	83.0	88.0	93.3	94.7	95.3	95.7	94.7	94.7	94.0	90.0	85.7
APR2616	80.3	86.0	91.3	92.7	93.3	95.0	90.0	90.0	87.3	80.0	78.7
APR3060	79.7	86.7	91.3	92.7	94.3	95.0	91.7	91.3	88.7	80.7	79.7
BAR LP 6159	80.3	86.3	89.7	91.3	90.3	93.0	90.0	84.7	76.0	73.0	66.0
CS-6	80.3	88.7	92.3	92.0	92.0	90.3	89.3	89.3	89.0	82.7	83.7
DERBY XTREME	84.0	89.7	92.7	94.3	93.7	93.7	90.7	88.3	85.7	78.3	81.3
DLFPS-236/3550	82.7	88.3	91.7	92.7	94.0	95.3	93.7	92.0	90.0	87.3	83.7
JR-747	82.3	89.3	93.3	93.0	91.7	89.0	85.3	81.3	75.7	70.7	66.7
LPB-SD-101	84.3	90.3	93.3	93.7	94.3	95.3	91.0	83.3	69.7	62.3	61.0
LPB-SD-104	86.0	89.0	91.3	92.7	94.7	92.0	85.7	81.7	69.7	65.3	61.0
PPG-PR 385	78.3	85.7	90.3	91.7	93.7	93.3	91.3	87.7	84.3	80.3	79.3
PST-2GTD	78.7	88.0	92.3	93.7	94.0	94.0	92.3	88.7	86.7	77.7	76.0
PST-2PDA	79.7	86.0	89.7	91.7	92.3	92.3	89.3	88.7	87.3	81.7	77.0
PEPPER II (RAD-PR 103)	82.7	88.3	90.3	92.3	94.0	91.0	88.7	86.0	83.0	77.3	78.3
RAD-PR 112	81.0	87.3	89.7	91.3	91.7	91.7	87.3	85.3	84.0	77.7	77.7
SNX	80.0	86.0	89.0	90.3	92.0	90.7	87.3	83.3	82.7	74.0	73.3
UF3	82.7	86.7	90.0	92.3	93.7	81.3	93.3	90.3	88.7	80.3	78.7
O21	83.0	85.0	86.3	89.3	92.7	94.7	93.7	91.3	87.3	83.3	81.7
ASP0118GL (A-4G)	81.7	87.7	92.3	93.0	93.7	95.3	92.7	89.3	88.3	83.7	82.3
BAR LP 6117	82.3	89.7	92.3	93.7	94.0	92.3	90.3	89.0	86.7	80.3	75.7
BAR LP 6131	82.3	86.7	93.3	93.7	93.3	90.3	88.7	85.3	78.3	77.3	76.7
BAR LP 6158	78.3	82.7	88.3	90.0	91.7	92.7	87.7	86.0	81.3	76.0	77.7
GO-142	76.3	85.0	88.3	89.3	91.0	90.3	88.3	85.0	83.3	79.7	78.7
GO-143	81.0	88.3	91.3	93.0	92.7	91.0	89.0	88.7	84.3	80.0	78.7
INTENSE	81.7	87.7	90.7	92.7	94.3	93.7	92.0	88.0	85.0	81.3	81.3
MAN O WAR	84.7	86.7	88.7	89.0	91.3	93.7	92.7	90.3	90.7	86.0	81.7
NP-3	85.0	88.3	92.0	93.7	94.3	95.3	90.3	88.7	86.3	82.0	79.7
PST-2EGAD	78.7	83.7	88.3	90.7	92.3	93.7	92.3	89.7	87.0	82.3	78.7
PST-2MAY	83.7	90.7	93.0	93.0	93.7	93.0	88.7	87.0	82.7	75.0	79.0
ASP0218 (A-6D)	81.3	85.0	87.3	89.0	90.7	91.7	87.0	85.7	80.3	72.7	71.7
ALLSTAR III	82.7	90.0	93.3	93.3	94.0	93.7	88.7	85.0	77.7	69.7	67.3

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LEXINGTON, KY 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT (%) DIVOT RECOVERY FROM MAY TO OCTOBER										
	MAY 3	MAY 24	JUNE 14	JUNE 29	JULY 19	AUGUST 2	AUGUST 15	AUGUST 31	SEPT. 20	OCT.15	OCT.31
BAR LP 6164	80.3	84.3	89.7	90.7	92.0	94.0	89.3	85.7	81.3	76.7	75.7
BAR LP 6233	84.0	88.7	94.0	94.7	95.7	96.0	92.3	92.0	90.0	89.0	90.0
LPB-SD-103	86.0	88.3	93.0	93.3	93.7	95.0	91.0	82.7	74.0	69.3	68.0
MRSL-PR15	74.7	83.3	87.3	89.0	91.7	92.3	86.7	83.0	80.3	76.0	74.3
MRSL-PR16	82.3	85.3	86.3	87.7	88.7	90.0	88.0	87.0	85.7	78.7	80.0
GRAY HAWK (PST-2FIND)	84.0	88.0	93.0	93.3	92.7	91.0	89.0	86.3	83.0	77.3	76.0
SAGUARO	87.0	91.0	94.7	95.7	94.3	90.7	85.7	77.7	65.7	57.3	61.0
SAVANT	88.7	93.7	94.7	96.7	96.7	93.7	87.7	77.0	68.7	61.3	63.0
BSP-25	82.3	87.0	90.3	91.7	90.7	89.0	82.3	80.3	71.3	65.3	69.7
BWH	77.3	81.0	81.3	84.3	85.3	84.0	77.3	72.3	62.0	52.3	57.0
GO-141	81.0	88.0	93.0	93.3	91.3	88.0	82.3	80.7	76.0	73.3	67.0
EVOLVE	81.0	83.0	87.3	89.3	89.0	90.7	88.3	83.0	79.0	70.3	68.7
JR-888	82.7	90.3	92.7	94.0	94.3	91.0	86.3	79.7	71.0	66.3	63.7
BAR LP 6165	87.0	90.7	95.3	93.7	91.7	93.7	95.0	93.7	93.0	86.3	80.7
BRIGHTSTAR SLT	79.0	85.7	90.3	90.3	88.7	89.0	83.3	67.3	59.7	51.7	59.0
BSP-17	81.3	82.7	84.0	86.3	86.7	88.0	86.3	81.0	76.0	69.0	75.3
BAR LP 6162	79.7	78.3	83.3	84.3	78.7	82.3	79.3	73.3	69.7	63.0	66.0
DLFPS-238/3014	77.7	82.0	89.0	90.3	88.7	86.3	80.3	79.7	72.7	67.0	65.0
LPB-SD-105	87.0	92.0	94.7	96.0	93.0	86.3	73.3	61.7	49.0	42.0	44.7
LINN	73.0	78.7	89.0	91.3	78.7	61.0	53.0	36.3	42.0	31.3	42.0
LSD VALUE	5.7	8.2	10.5	11.6	5.6	7.1	8.7	10.3	12.7	14.2	15.1
C.V. (%)	3.6	4.1	4.0	3.8	3.3	4.5	5.7	7.2	9.2	10.8	11.2

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
KY1	SILT LOAM AND SILT	6.1-6.5	451+	241-375	0.0-1.0	FULL SUN	0.6-1.0	TO PREVENT STRESS

TABLE 8. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/ 2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	WEAR TOLERANCE	MOWING	PERCENT		QUALITY RATINGS				MEAN
			QUALITY	ESTABLISHMENT	JUL	AUG	SEP	OCT	
PPG-PR 424	4.3	6.7	53.3	7.0	7.0	6.7	6.3	6.8	
DLFPS-236/3547	5.3	5.0	53.3	6.0	7.0	6.7	6.7	6.6	
PPG-PR 331	5.3	5.7	63.3	7.0	6.7	6.7	6.0	6.6	
02BS2	5.7	7.0	50.0	6.0	6.7	6.7	6.7	6.5	
DLFPS-236/3544	5.0	6.3	56.7	6.3	7.0	6.3	6.3	6.5	
INTENSE	5.7	5.0	43.3	6.0	6.7	7.0	6.3	6.5	
PHARAOH	5.7	7.0	53.3	6.3	7.0	6.3	6.3	6.5	
PPG-PR 421	5.0	5.7	60.0	6.0	6.7	6.7	6.7	6.5	
DLFPS-236/3546	6.0	6.0	50.0	6.0	6.0	7.0	6.7	6.4	
CPN	5.7	5.0	56.7	6.3	6.0	6.7	6.0	6.3	
DLFPS-236/3556	5.0	7.7	33.3	5.7	6.7	6.7	6.0	6.3	
FP2	6.3	8.0	40.0	6.0	7.0	6.7	5.7	6.3	
JR-123	6.0	7.3	53.3	5.3	6.3	6.7	6.7	6.3	
JR-197	6.0	4.7	46.7	6.0	6.0	6.3	6.7	6.3	
NP-2	5.0	7.7	46.7	6.7	6.7	6.0	5.7	6.3	
PR-6-15	5.3	7.0	46.7	5.7	6.7	6.7	6.0	6.3	
BSP-25	5.7	6.7	50.0	6.0	7.0	6.3	5.3	6.2	
DLFPS-236/3545	6.0	7.3	46.7	5.3	6.3	6.7	6.3	6.2	
PL2	5.0	7.0	46.7	5.3	6.0	7.0	6.3	6.2	
PPG-PR 343	5.0	5.0	53.3	5.7	6.3	6.3	6.3	6.2	
PPG-PR 422	5.3	7.3	43.3	6.0	6.7	6.0	6.0	6.2	
PST-2A2	6.0	6.7	56.7	5.7	6.3	6.3	6.3	6.2	
SNX	5.7	6.7	46.7	6.0	6.7	6.0	6.0	6.2	
023	5.3	7.7	58.3	5.7	6.3	6.0	6.3	6.1	
DERBY XTREME	5.7	5.3	50.0	5.7	6.0	6.3	6.3	6.1	
NP-3	5.7	5.7	46.7	5.3	6.3	6.3	6.3	6.1	
PPG-PR 329	6.0	7.3	43.3	5.3	6.3	6.3	6.3	6.1	
PPG-PR 339	6.0	6.0	56.7	6.0	6.0	6.0	6.3	6.1	
PPG-PR 385	4.7	4.3	53.3	6.3	6.0	6.0	6.0	6.1	
PST-2BDT	5.7	6.3	43.3	5.7	6.7	6.0	6.0	6.1	
PST-2MAY	5.3	7.0	33.3	5.7	6.0	6.7	6.0	6.1	
XCELERATOR	5.3	6.7	60.0	5.7	5.7	6.7	6.3	6.1	
ASPO118GL (A-4G)	7.0	5.7	45.0	5.7	6.0	6.3	6.0	6.0	
ASPO218 (A-6D)	5.7	6.7	50.0	5.7	6.3	6.0	6.0	6.0	
DLFPS-236/3540	7.3	7.3	46.7	5.7	6.7	6.0	5.7	6.0	
DLFPS-236/3550	5.7	6.7	56.7	5.7	6.0	6.3	6.0	6.0	
DLFPS-236/3552	7.0	6.0	43.3	6.0	5.3	6.3	6.3	6.0	
GRAND SLAM GLD	6.3	6.3	56.7	5.7	5.7	6.7	6.0	6.0	
MAN O WAR	6.0	7.0	56.7	5.0	5.7	7.0	6.3	6.0	
PPG-PR 367	5.3	7.7	36.7	6.0	6.0	6.0	6.0	6.0	
PPG-PR 372	6.0	5.7	53.3	6.0	6.0	6.0	6.0	6.0	
SILVER SPORT (PST-2CRP)	5.3	7.0	43.3	5.7	6.0	6.3	6.0	6.0	
PST-2FOXY	5.7	6.7	46.7	5.0	6.3	6.3	6.3	6.0	
PST-2PDA	5.7	6.3	43.3	5.7	6.3	6.0	6.0	6.0	
RAD-PR 112	6.0	7.0	36.7	4.7	6.7	6.7	6.0	6.0	
021	5.3	6.7	60.0	5.3	6.0	6.0	6.3	5.9	
ASPO117 (A-PR15)	5.0	7.0	50.0	5.7	6.0	6.0	6.0	5.9	

TABLE 8.
(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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	WEAR				QUALITY RATINGS			
	TOLERANCE	MOWING QUALITY	PERCENT ESTABLISHMENT	JUL	AUG	SEP	OCT	MEAN
AMP-R1	6.3	6.7	56.7	5.7	6.3	6.0	5.7	5.9
DLFPS-236/3543	5.7	5.7	56.7	5.0	5.7	6.3	6.7	5.9
DLFPS-236/3554	5.7	6.3	45.0	5.3	6.3	6.0	6.0	5.9
PPG-PR 360	5.0	7.0	53.3	5.3	6.0	6.3	6.0	5.9
PPG-PR 423	5.3	7.0	43.3	5.7	6.0	6.3	5.7	5.9
02BS1	6.0	6.7	43.3	5.0	6.0	6.0	6.0	5.8
SHIELD (02BS4)	5.0	4.7	43.3	5.7	5.7	6.3	5.7	5.8
BSP-17	6.3	7.0	46.7	5.0	5.7	6.3	6.0	5.8
BWH	5.0	7.3	46.7	6.0	5.7	5.7	5.7	5.8
DLFPS-236/3538	5.0	5.7	43.3	6.0	5.3	6.3	5.7	5.8
DLFPS-236/3541	5.3	6.7	40.0	5.0	6.3	6.3	5.7	5.8
DLFPS-236/3548	5.3	5.7	53.3	5.7	6.7	5.7	5.3	5.8
DLFPS-236/3553	5.0	5.7	56.7	5.3	6.0	6.3	5.7	5.8
MRS�-PR15	5.7	5.0	53.3	5.7	5.7	6.0	5.7	5.8
PPG-PR 241	5.0	5.3	63.3	5.7	6.0	5.7	5.7	5.8
PPG-PR 371	5.3	5.7	50.0	5.3	5.7	6.3	6.0	5.8
PPG-PR 420	5.7	5.7	56.7	6.0	5.7	6.0	5.7	5.8
PST-2GTD	5.0	5.7	50.0	5.7	6.3	6.0	5.3	5.8
RRT	6.0	6.7	43.3	5.3	5.7	5.7	6.3	5.8
SEABISCUIT	4.7	4.3	63.3	5.3	6.3	6.0	5.7	5.8
SR 4650	6.0	6.7	56.7	6.0	6.0	5.7	5.7	5.8
CS-6	5.0	6.3	40.0	5.0	6.0	6.0	5.7	5.7
GO-143	5.7	5.0	36.7	5.7	6.0	5.7	5.3	5.7
MRS�-PR16	5.3	6.7	50.0	5.3	5.7	6.0	5.7	5.7
OVERDRIVE 5G	5.7	6.0	46.7	5.3	5.7	6.0	5.7	5.7
PPG-PR 419	5.3	6.0	46.7	4.7	6.0	6.0	6.0	5.7
PR-5-16	5.3	4.7	50.0	5.3	5.7	5.7	6.0	5.7
SIGNET	5.0	6.3	56.7	5.7	5.7	5.7	5.7	5.7
UF3	5.0	7.3	36.7	5.0	5.7	5.7	6.3	5.7
UMPQUA	5.3	5.0	46.7	5.3	5.7	6.0	5.7	5.7
DLFPS-236/3542	6.0	4.7	43.3	5.0	5.7	6.3	5.3	5.6
EVOLVE	5.7	5.3	66.7	5.3	5.3	6.0	5.7	5.6
LPB-SD-102	5.0	5.3	56.7	5.0	5.3	6.7	5.3	5.6
LPB-SD-103	5.3	6.3	46.7	5.0	6.0	6.0	5.3	5.6
LPB-SD-104	5.3	6.3	33.3	5.7	5.7	5.7	5.3	5.6
LPB-SD-105	4.7	4.0	30.0	5.0	6.0	6.0	5.3	5.6
FURLONG (LTP-FCB)	5.0	5.0	46.7	5.3	5.3	6.0	5.7	5.6
MENSA	4.3	4.7	53.3	5.3	5.7	5.7	5.7	5.6
PPG-PR 370	5.3	6.3	40.0	5.3	5.3	6.0	5.7	5.6
PST-2EGAD	4.3	7.3	36.7	5.3	6.0	5.7	5.3	5.6
GRAY WOLF (PST-2GAL)	5.3	5.7	46.7	5.3	5.7	5.7	5.7	5.6
APR2616	5.7	7.3	46.7	5.0	5.3	6.3	5.3	5.5
BAR LP 6164	5.0	6.0	40.0	5.3	6.0	5.3	5.3	5.5
GO-142	5.3	5.0	40.0	5.3	5.7	5.7	5.3	5.5
KARMA	5.0	6.3	20.0	5.0	5.7	5.7	5.7	5.5
APR2612	5.0	6.7	35.0	5.3	5.3	5.7	5.3	5.4
APR3060	5.0	4.7	53.3	5.3	5.7	5.7	5.0	5.4

TABLE 8. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	WEAR TOLERANCE	MOWING QUALITY	PERCENT ESTABLISHMENT	QUALITY RATINGS				MEAN
				JUL	AUG	SEP	OCT	
ASP0116EXT	4.3	5.7	53.3	5.7	5.7	5.3	5.0	5.4
BRIGHTSTAR SLT	5.0	4.3	63.3	5.0	5.3	5.7	5.7	5.4
GRAY HAWK (PST-2FIND)	4.7	5.3	66.7	5.3	5.0	5.7	5.7	5.4
SAGUARO	5.3	4.7	46.7	5.3	5.0	5.7	5.7	5.4
ALLSTAR III	6.0	6.7	40.0	5.3	5.7	5.0	5.3	5.3
BAR LP 6131	4.7	4.3	50.0	5.0	5.3	5.7	5.0	5.3
BAR LP 6158	4.7	4.7	40.0	5.0	5.3	5.7	5.3	5.3
GO-141	4.7	4.7	56.7	5.0	5.7	5.3	5.3	5.3
JR-747	4.0	4.3	56.7	5.0	5.0	5.7	5.3	5.3
LPB-SD-101	4.0	4.3	46.7	5.3	5.0	5.3	5.3	5.3
PEPPER II (RAD-PR 103)	5.0	7.0	38.3	5.0	5.7	5.3	5.3	5.3
BAR LP 6233	5.0	4.3	46.7	5.0	5.3	5.3	5.0	5.2
JR-888	5.0	5.7	53.3	5.0	5.0	5.3	5.3	5.2
BAR LP 6117	5.0	6.7	46.7	5.0	5.7	5.3	4.3	5.1
BAR LP 6159	5.7	5.3	50.0	4.7	5.7	5.3	4.7	5.1
SAVANT	5.0	6.7	40.0	5.0	5.0	5.3	5.0	5.1
BAR LP 6165	4.7	4.7	33.3	4.7	4.7	5.3	5.3	5.0
DLFPS-238/3014	4.3	6.0	30.0	4.3	5.3	5.0	5.3	5.0
BAR LP 6162	4.0	5.3	26.7	4.3	5.0	5.0	5.3	4.9
LINN	3.3	3.7	13.3	4.0	3.0	3.3	3.0	3.3
LSD VALUE	1.1	1.1	16.7	1.0	0.8	0.7	0.8	0.5
C.V. (%)	12.0	12.1	19.9	10.1	8.6	7.2	8.6	5.3

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

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

TABLE A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
 THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED

TABLE 9. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT EAST LANSING, MI 1/ 2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC		PERCENT		QUALITY RATINGS					MEAN
	COLOR	ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT		
NP-2	7.3	76.7	4.3	6.0	7.0	6.0	6.3	6.0	5.9	
PR-6-15	7.0	76.7	5.0	6.3	5.7	6.3	6.3	6.0	5.9	
SHIELD (02BS4)	7.0	70.0	4.3	5.7	6.3	6.0	6.3	6.3	5.8	
PPG-PR 331	7.0	71.7	4.0	5.3	6.7	6.0	6.3	6.3	5.8	
021	7.0	73.3	4.3	5.7	6.0	6.0	6.3	6.0	5.7	
023	6.3	65.0	4.7	5.3	5.7	5.7	6.3	6.3	5.7	
DLFPS-236/3556	6.7	71.7	4.3	6.0	6.0	6.0	6.0	5.7	5.7	
NP-3	6.3	73.3	4.7	5.3	5.7	6.0	6.3	6.0	5.7	
PPG-PR 339	7.0	75.0	4.7	5.3	5.7	6.0	6.3	6.3	5.7	
PPG-PR 423	7.0	70.0	4.0	5.7	6.0	6.0	6.0	6.3	5.7	
PST-2A2	7.0	70.0	4.7	5.7	6.0	6.0	6.0	6.0	5.7	
SILVER SPORT (PST-2CRP)	7.0	60.0	5.0	5.0	5.7	6.0	6.3	6.3	5.7	
SEABISCUIT	7.0	73.3	4.3	5.3	6.0	6.0	6.0	6.3	5.7	
SIGNET	7.0	73.3	4.0	5.0	6.0	6.3	6.3	6.3	5.7	
02BS2	7.0	76.7	3.3	5.7	6.0	6.0	6.7	5.7	5.6	
ASPO116EXT	8.0	73.3	3.7	5.7	6.0	6.0	6.3	6.0	5.6	
BAR LP 6159	6.7	75.0	4.3	5.7	6.0	6.0	6.0	5.7	5.6	
DLFPS-236/3538	7.0	75.0	5.0	5.7	5.7	5.7	6.0	5.7	5.6	
DLFPS-236/3540	6.7	66.7	4.7	5.3	6.0	6.0	5.7	6.0	5.6	
DLFPS-236/3543	7.0	66.7	4.7	5.0	5.7	6.0	6.0	6.0	5.6	
DLFPS-236/3548	7.0	66.7	4.7	5.3	5.7	6.0	6.0	5.7	5.6	
DLFPS-236/3550	7.0	66.7	3.7	5.3	6.0	6.0	6.3	6.0	5.6	
DLFPS-236/3552	7.0	73.3	4.0	5.7	5.7	6.0	6.3	6.0	5.6	
GRAND SLAM GLD	7.0	68.3	4.0	5.3	5.7	6.0	6.0	6.3	5.6	
JR-888	6.3	73.3	4.3	5.7	5.7	6.0	5.7	6.3	5.6	
LPB-SD-102	6.7	70.0	5.0	5.3	6.0	5.0	5.7	6.3	5.6	
FURLONG (LTP-FCB)	7.0	73.3	3.7	5.7	5.3	6.0	6.3	6.3	5.6	
PPG-PR 329	7.0	70.0	4.7	5.0	5.7	5.7	6.3	6.0	5.6	
PST-2GTD	7.0	66.7	4.3	5.7	6.0	5.7	6.0	6.0	5.6	
RRT	7.0	71.7	3.7	5.7	6.0	6.0	6.0	6.0	5.6	
SAVANT	6.3	70.0	4.3	5.0	6.0	6.0	6.3	6.0	5.6	
XCELERATOR	7.0	70.0	3.3	5.3	6.3	6.0	6.7	6.0	5.6	
BRIGHTSTAR SLT	6.7	68.3	4.7	5.3	5.7	5.3	5.7	6.3	5.5	
DLFPS-236/3546	7.3	70.0	4.0	5.3	5.7	6.0	6.0	6.0	5.5	
EVOLVE	6.0	71.7	4.3	5.3	5.7	6.0	5.7	6.0	5.5	
LPB-SD-105	6.0	73.3	4.7	6.0	6.3	5.0	5.3	5.7	5.5	
MENSA	6.7	73.3	4.3	5.3	5.7	6.0	6.0	5.7	5.5	
PL2	7.0	68.3	4.0	5.0	5.7	6.3	6.0	6.0	5.5	
PPG-PR 367	7.0	71.7	4.0	5.0	5.7	6.0	6.3	6.0	5.5	
PPG-PR 372	7.0	68.3	4.0	5.3	6.0	5.7	6.0	6.0	5.5	
PST-2PDA	6.7	71.7	5.0	5.3	5.7	5.7	5.7	5.7	5.5	
SAGUARO	7.0	73.3	4.0	5.3	6.0	5.7	6.0	6.0	5.5	
UMPQUA	6.7	68.3	3.7	5.3	6.3	6.0	5.7	6.0	5.5	
ALLSTAR III	7.0	61.7	3.7	5.0	6.0	5.7	5.7	6.3	5.4	
APR2616	7.3	70.0	3.7	5.3	6.0	5.7	6.0	6.0	5.4	
BAR LP 6164	6.7	68.3	4.0	5.0	6.0	6.0	6.0	5.7	5.4	
BSP-25	7.3	70.0	3.7	5.3	6.0	5.7	5.7	6.0	5.4	

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC		PERCENT		QUALITY RATINGS					MEAN
	COLOR	ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT		
BWH	8.0	68.3	4.3	5.3	6.0	5.3	5.7	5.7	5.4	
CS-6	7.0	73.3	4.3	5.0	5.0	5.7	6.0	6.7	5.4	
JR-197	6.7	70.0	4.0	5.7	5.7	5.7	5.3	6.0	5.4	
LPB-SD-101	6.7	73.3	4.3	5.7	6.0	5.3	5.0	6.0	5.4	
LPB-SD-104	7.0	70.0	4.3	5.3	6.3	5.7	5.0	6.0	5.4	
MAN O WAR	7.0	68.3	4.7	5.3	5.7	6.0	5.7	5.3	5.4	
PHARAOH	7.0	66.7	4.3	5.0	5.7	6.0	6.0	5.7	5.4	
PPG-PR 343	7.0	75.0	3.7	5.3	6.0	6.0	6.0	5.7	5.4	
PPG-PR 370	6.7	68.3	3.7	5.3	5.7	6.0	6.0	6.0	5.4	
PPG-PR 419	7.0	66.7	3.0	5.3	6.0	6.0	6.0	6.0	5.4	
PPG-PR 420	7.0	66.7	4.0	5.3	6.0	5.7	6.0	5.7	5.4	
PST-2BDT	7.0	66.7	4.0	5.3	6.0	5.7	6.0	5.7	5.4	
GRAY HAWK (PST-2FIND)	6.7	71.7	5.0	5.7	5.3	5.0	5.7	5.7	5.4	
APR2612	7.3	68.3	3.3	5.0	5.7	5.7	6.0	6.3	5.3	
BSP-17	7.7	70.0	3.3	5.3	5.7	5.7	5.3	6.3	5.3	
CPN	7.0	75.0	4.0	5.3	6.0	5.7	5.7	5.0	5.3	
DERBY XTREME	7.0	68.3	4.3	5.0	5.3	5.3	6.3	5.7	5.3	
DLFPS-236/3542	7.0	63.3	3.3	5.0	5.7	6.0	6.0	5.7	5.3	
DLFPS-236/3554	7.0	60.0	3.7	5.0	6.0	5.7	5.7	5.7	5.3	
FP2	7.0	61.7	3.7	5.0	5.7	5.7	5.7	6.0	5.3	
GO-141	7.3	63.3	3.7	5.0	6.3	5.3	5.3	6.0	5.3	
MRSL-PR15	7.0	71.7	3.7	5.0	5.7	5.7	5.3	6.3	5.3	
PPG-PR 241	7.0	68.3	3.0	5.0	6.0	6.0	6.3	5.7	5.3	
PPG-PR 371	7.0	68.3	4.3	4.7	5.7	5.7	6.0	5.7	5.3	
PPG-PR 424	7.0	71.7	4.0	5.3	6.0	5.7	6.0	5.0	5.3	
PR-5-16	6.3	71.7	4.0	5.0	5.7	5.7	5.3	6.0	5.3	
GRAY WOLF (PST-2GAL)	7.0	66.7	4.3	5.0	5.3	5.3	5.7	6.0	5.3	
PEPPER II (RAD-PR 103)	8.0	61.7	4.0	5.0	5.7	5.7	5.7	6.0	5.3	
SR 4650	7.0	70.0	3.3	5.3	5.7	5.7	5.7	6.0	5.3	
ASPO117 (A-PR15)	7.0	71.7	3.3	5.0	5.7	5.7	6.0	5.7	5.2	
BAR LP 6117	7.0	68.3	3.7	5.0	5.7	5.3	5.7	6.0	5.2	
BAR LP 6131	6.7	68.3	4.0	5.0	6.0	5.3	5.3	5.7	5.2	
BAR LP 6233	6.0	71.7	3.3	5.3	5.3	6.0	5.3	6.0	5.2	
DLFPS-236/3541	7.0	66.7	3.7	5.0	5.7	5.3	6.0	5.3	5.2	
DLFPS-236/3544	7.0	65.0	3.7	5.0	5.7	6.0	5.0	5.7	5.2	
DLFPS-236/3545	7.0	71.7	3.3	4.7	5.7	5.7	5.7	6.0	5.2	
DLFPS-236/3553	6.7	66.7	3.7	5.3	6.0	5.7	5.0	5.7	5.2	
MRSL-PR16	7.7	71.7	3.3	5.0	5.7	5.7	5.3	6.0	5.2	
PPG-PR 360	7.0	71.7	3.7	4.7	5.3	5.7	5.7	6.0	5.2	
PPG-PR 421	7.0	70.0	3.7	5.0	6.0	5.3	6.0	5.3	5.2	
PPG-PR 422	7.0	68.3	4.7	5.3	5.7	5.0	5.7	5.0	5.2	
PST-2FOX	7.0	68.3	4.0	5.0	5.7	5.3	5.3	6.0	5.2	
PST-2MAY	7.0	61.7	3.3	5.0	5.7	5.3	6.0	5.7	5.2	
SNX	7.7	63.3	3.3	4.7	5.7	5.3	5.7	6.3	5.2	
UF3	7.0	68.3	4.3	5.3	5.0	5.0	6.0	5.7	5.2	
ASPO118GL (A-4G)	7.3	71.7	3.7	5.0	5.0	5.3	5.3	6.0	5.1	
AMP-R1	7.3	68.3	4.0	5.0	5.0	5.3	5.3	6.0	5.1	

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	QUALITY RATINGS							MEAN
			MAY	JUN	JUL	AUG	SEP	OCT		
APR3060	7.3	70.0	3.3	5.0	5.0	5.7	5.7	5.7	5.1	
DLFPS-236/3547	7.3	68.3	3.7	5.0	5.3	5.3	5.3	6.0	5.1	
JR-123	7.0	70.0	4.0	5.0	5.0	5.3	5.3	5.7	5.1	
OVERDRIVE 5G	7.0	65.0	3.7	5.0	5.3	5.0	5.3	6.0	5.1	
PPG-PR 385	7.0	65.0	3.3	5.0	5.7	5.7	5.7	5.3	5.1	
PST-2EGAD	7.0	60.0	4.0	4.7	5.3	5.3	5.3	5.7	5.1	
INTENSE	7.0	65.0	3.3	4.7	5.7	5.3	5.3	5.7	5.0	
ASP0218 (A-6D)	7.7	68.3	3.0	4.7	5.0	5.3	6.0	5.7	4.9	
BAR LP 6158	6.7	66.7	3.7	5.0	5.0	5.3	5.3	5.3	4.9	
JR-747	7.0	73.3	3.0	5.0	5.3	5.3	5.3	5.7	4.9	
KARMA	6.7	65.0	3.3	5.0	5.3	5.3	5.0	5.7	4.9	
LPB-SD-103	6.7	68.3	4.0	5.3	5.3	4.7	5.3	5.0	4.9	
02BS1	7.0	60.0	2.7	4.3	5.0	5.7	5.7	5.7	4.8	
GO-142	7.3	65.0	3.0	4.7	5.7	5.3	5.0	5.3	4.8	
BAR LP 6165	6.0	60.0	2.7	4.7	4.7	5.3	5.7	5.3	4.7	
RAD-PR 112	7.3	55.0	3.3	4.3	5.0	5.0	4.7	6.0	4.7	
GO-143	7.3	66.7	3.0	4.3	4.7	5.0	5.0	5.7	4.6	
BAR LP 6162	6.7	55.0	2.7	4.3	4.7	5.0	4.3	4.7	4.3	
DLFPS-238/3014	6.3	58.3	2.7	4.0	5.0	4.3	4.7	5.3	4.3	
LINN	4.0	58.3	2.0	4.0	2.0	3.0	3.0	5.0	3.2	
LSD VALUE	0.5	13.7	3.7	1.8	1.0	0.9	1.0	3.2	0.8	
C.V. (%)	5.0	8.7	24.9	11.4	10.0	8.5	9.5	11.0	7.6	

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 A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL		NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
			PHOSPHOROUS (LBS/ACRE)	POTASSIUM (LBS/ACRE)				
MI1	-	-	-	-	-	-	-	-

TABLE 10. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS								
	GENETIC COLOR	WINTER KILL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PPG-PR 372	5.3	6.7	7.0	6.0	6.7	6.7	6.3	5.3	6.3
GRAY HAWK (PST-2FIND)	4.3	6.7	6.3	6.0	7.0	6.3	6.7	5.7	6.3
LPB-SD-102	5.3	7.7	6.7	5.7	6.0	6.3	6.0	6.3	6.2
PPG-PR 331	5.0	7.0	6.0	6.7	7.3	6.0	5.7	5.3	6.2
DLFPS-236/3556	5.3	6.7	6.0	5.3	6.3	7.0	6.3	5.7	6.1
NP-2	6.0	6.3	5.3	6.0	6.7	6.3	6.0	6.0	6.1
PL2	5.3	6.7	6.0	5.0	6.7	6.3	5.7	6.3	6.0
CPN	4.7	7.0	6.0	5.3	6.7	6.3	5.7	5.7	5.9
DLFPS-236/3554	5.0	7.3	6.7	5.7	6.0	6.0	5.7	5.7	5.9
PPG-PR 424	5.3	6.3	5.3	5.3	6.0	6.3	6.3	6.3	5.9
ASP0117 (A-PR15)	5.3	6.3	5.7	5.7	6.3	5.3	5.7	6.0	5.8
DLFPS-236/3546	4.3	5.7	5.3	5.7	5.7	6.0	6.0	6.0	5.8
FP2	5.7	6.0	5.3	4.3	6.0	6.3	6.3	6.3	5.8
PPG-PR 419	5.0	7.0	5.3	5.3	6.0	6.3	6.3	5.7	5.8
DLFPS-236/3543	5.0	6.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7
OVERDRIVE 5G	5.7	7.3	6.0	5.0	6.3	6.0	5.7	5.0	5.7
PPG-PR 339	5.0	7.0	6.3	5.0	6.0	5.7	5.3	5.7	5.7
PPG-PR 422	4.7	6.0	5.7	5.3	5.7	5.7	6.0	5.7	5.7
PR-5-16	5.3	6.0	5.7	5.7	6.0	6.0	5.3	5.3	5.7
PR-6-15	4.7	6.3	5.7	5.3	6.3	5.0	6.3	5.7	5.7
DLFPS-236/3553	5.0	6.0	5.3	5.0	5.3	6.0	6.3	5.7	5.6
JR-888	6.0	7.0	5.7	5.3	6.3	5.7	5.3	5.0	5.6
PPG-PR 421	5.0	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.6
UF3	4.7	7.0	5.0	4.7	7.0	5.7	5.7	5.3	5.6
O23	4.0	6.0	5.3	5.0	5.7	5.7	5.7	5.7	5.5
BSP-17	5.0	6.7	6.0	6.0	5.0	5.3	5.3	5.3	5.5
JR-123	5.7	6.7	5.3	5.7	5.7	5.7	5.3	5.3	5.5
NP-3	4.7	6.0	5.3	5.3	6.7	5.0	5.7	5.0	5.5
PPG-PR 241	6.0	5.7	5.3	5.0	5.7	5.3	5.7	6.0	5.5
PPG-PR 420	5.3	5.7	5.0	5.7	5.7	5.7	5.3	5.7	5.5
SAGUARO	6.0	6.3	5.7	5.7	6.0	5.3	5.3	5.0	5.5
XCELERATOR	5.7	5.7	5.3	5.0	5.7	6.0	5.7	5.3	5.5
O2BS2	6.0	5.0	4.7	4.7	6.0	5.7	5.3	6.3	5.4
SHIELD (O2BS4)	5.7	7.0	5.3	5.0	6.0	5.7	5.7	5.0	5.4
BAR LP 6164	4.0	7.3	6.0	5.7	5.7	5.3	5.0	4.7	5.4
DLFPS-236/3538	6.0	5.7	5.3	5.3	5.7	5.3	5.7	5.0	5.4
DLFPS-236/3540	5.0	6.3	5.3	5.0	5.7	5.7	5.3	5.3	5.4
DLFPS-236/3541	4.7	6.0	5.7	5.3	5.7	5.0	5.3	5.7	5.4
JR-197	5.3	5.3	4.7	4.7	5.7	6.3	6.0	5.3	5.4
LPB-SD-101	4.0	6.7	5.7	5.3	6.3	5.7	5.0	4.7	5.4
FURLONG (LTP-FCB)	5.3	5.7	5.0	4.7	5.7	5.3	6.0	5.7	5.4
PPG-PR 329	5.3	5.7	5.0	4.7	6.0	5.3	5.7	5.7	5.4
PPG-PR 367	5.3	6.0	4.7	5.0	6.0	5.7	6.0	5.3	5.4
SR 4650	5.3	7.0	5.3	5.0	6.3	5.3	5.3	5.3	5.4
UMPQUA	6.0	6.0	5.3	5.0	5.7	5.3	6.3	5.0	5.4
CS-6	6.0	5.7	5.3	5.0	5.3	5.0	5.7	5.3	5.3
DLFPS-236/3544	5.7	5.0	4.7	4.3	5.3	5.3	6.3	6.0	5.3

TABLE 10. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	WINTER KILL	MAY	JUN	QUALITY RATINGS				MEAN
					JUL	AUG	SEP	OCT	
DLFPS-236/3547	5.0	5.7	5.3	5.0	5.3	5.7	5.3	5.3	5.3
GRAND SLAM GLD	5.3	6.3	5.3	5.0	6.0	5.3	5.0	5.0	5.3
LPB-SD-105	5.3	4.7	4.7	5.0	5.3	5.3	6.0	5.7	5.3
MAN O WAR	5.3	6.0	5.0	4.7	5.3	5.7	5.7	5.7	5.3
PPG-PR 360	4.7	5.7	5.3	5.3	5.7	5.3	5.0	5.3	5.3
PPG-PR 423	5.7	5.3	5.0	5.0	5.3	5.0	5.7	5.7	5.3
SIGNET	5.0	5.7	5.3	5.3	6.3	5.3	5.0	4.7	5.3
ASP0116EXT	5.0	5.7	5.3	5.0	5.3	5.0	5.0	5.7	5.2
BAR LP 6159	5.0	6.0	5.3	5.3	5.7	5.0	4.7	5.0	5.2
JR-747	3.3	5.7	5.0	4.7	5.7	5.3	5.3	5.0	5.2
PPG-PR 343	4.7	5.3	5.3	5.0	5.3	5.0	5.0	5.3	5.2
RAD-PR 112	4.7	6.7	5.7	5.7	4.7	5.3	4.3	5.7	5.2
APR3060	5.7	5.0	4.7	5.0	5.3	5.0	5.3	5.0	5.1
PST-2A2	4.3	6.3	5.3	5.0	5.7	5.0	5.0	4.7	5.1
SILVER SPORT (PST-2CRP)	4.0	5.3	4.7	4.3	5.0	5.7	5.0	5.7	5.1
PST-2EGAD	4.0	5.3	5.3	5.0	5.0	5.0	5.3	4.7	5.1
APR2616	4.7	5.0	4.7	4.7	5.0	5.0	5.0	5.7	5.0
INTENSE	6.0	6.7	4.7	4.7	5.7	5.3	5.0	4.7	5.0
MENSA	5.0	5.3	4.7	5.0	5.0	5.3	5.0	5.0	5.0
PPG-PR 370	4.0	5.0	5.0	5.0	5.3	5.0	5.0	4.7	5.0
PST-2FOXY	4.3	5.3	4.7	5.0	5.3	5.0	5.0	5.0	5.0
DLFPS-236/3550	5.7	4.7	5.0	4.7	5.0	4.7	5.0	5.0	4.9
EVOLVE	4.7	6.3	5.0	5.0	5.0	4.7	5.0	4.7	4.9
GO-141	5.0	5.7	5.3	5.0	4.7	4.7	4.3	5.3	4.9
LPB-SD-103	5.3	5.3	4.7	4.7	4.7	5.0	5.3	5.0	4.9
LPB-SD-104	4.7	4.7	4.7	4.3	4.7	5.3	5.3	5.3	4.9
MRSL-PR16	5.3	6.0	5.3	5.0	5.3	4.7	4.7	4.7	4.9
O21	5.7	5.0	4.3	3.7	5.7	5.0	5.0	5.3	4.8
DERBY XTREME	5.0	5.3	5.0	5.0	4.3	4.7	4.7	5.0	4.8
DLFPS-236/3542	6.7	4.7	4.7	4.3	5.0	5.3	4.7	4.7	4.8
DLFPS-236/3545	5.0	5.0	4.3	4.3	5.3	5.0	5.0	5.0	4.8
PST-2BDT	6.0	5.0	4.7	4.7	4.7	4.3	5.3	5.0	4.8
PST-2PDA	4.7	6.0	5.0	4.7	5.3	5.0	4.7	4.3	4.8
RRT	5.3	5.3	4.7	4.3	5.0	4.7	5.3	5.0	4.8
BAR LP 6117	5.3	4.7	4.3	4.3	4.7	4.7	5.0	5.0	4.7
DLFPS-236/3548	4.7	4.7	4.7	4.3	5.3	4.7	4.7	4.7	4.7
SEABISCUIT	5.0	5.0	4.3	4.7	5.0	4.3	4.7	5.0	4.7
BAR LP 6233	5.0	7.0	4.3	4.3	6.7	3.3	4.7	4.0	4.6
GRAY WOLF (PST-2GAL)	4.0	4.7	4.3	4.3	4.3	4.7	4.7	5.0	4.6
BAR LP 6131	5.0	6.0	4.7	4.0	5.7	4.0	4.7	4.0	4.5
BAR LP 6158	4.3	5.7	5.0	4.3	5.3	4.0	4.3	4.0	4.5
BRIGHTSTAR SLT	5.3	6.3	5.0	4.0	5.0	4.3	4.3	4.3	4.5
DLFPS-236/3552	5.3	4.7	4.3	4.3	4.3	4.3	4.7	5.0	4.5
KARMA	5.0	4.3	4.0	4.3	5.0	4.7	4.7	4.3	4.5
ALLSTAR III	5.3	5.0	4.7	4.3	4.3	4.0	4.3	4.7	4.4
AMP-R1	5.0	5.0	4.7	4.3	4.3	4.3	4.3	4.7	4.4
GO-142	5.0	5.0	4.7	4.0	4.7	4.3	4.7	4.0	4.4

TABLE 10. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	WINTER KILL	QUALITY RATINGS						MEAN
			MAY	JUN	JUL	AUG	SEP	OCT	
PPG-PR 385	4.3	5.3	4.3	4.3	5.0	4.0	4.7	4.3	4.4
O2BS1	6.0	4.7	4.0	3.7	4.7	4.3	4.3	4.7	4.3
ASP0118GL (A-4G)	5.3	4.3	4.0	4.3	4.3	4.3	4.0	4.7	4.3
GO-143	5.3	4.3	4.3	4.3	4.3	4.3	4.0	4.3	4.3
MRS1-PR15	4.3	5.0	4.3	4.3	4.7	4.0	4.0	4.7	4.3
PHARAOH	6.3	4.7	4.3	4.0	4.3	4.3	4.3	4.7	4.3
PPG-PR 371	5.3	4.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3
PST-2GTD	4.7	4.7	4.0	4.3	4.0	4.3	4.7	4.7	4.3
PST-2MAY	5.3	4.3	3.7	4.0	4.3	4.3	4.3	5.0	4.3
ASP0218 (A-6D)	5.0	4.7	4.0	3.7	4.3	4.0	4.3	4.3	4.1
SNX	5.0	4.3	4.0	4.0	4.3	4.0	4.0	4.0	4.1
PEPPER II (RAD-PR 103)	5.3	3.7	3.3	4.0	4.0	4.0	4.0	4.7	4.0
BAR LP 6165	5.0	4.3	4.3	4.3	5.0	2.3	4.0	2.7	3.8
BSP-25	4.7	3.7	3.3	4.0	3.7	4.3	3.7	4.0	3.8
BWH	6.0	4.0	4.0	3.7	4.0	3.3	3.3	3.7	3.7
APR2612	5.3	3.3	3.3	3.0	4.0	3.3	3.7	4.0	3.6
SAVANT	5.0	4.0	3.3	2.7	4.0	3.7	3.7	4.0	3.6
DLFPS-238/3014	4.7	3.7	3.7	3.0	4.0	3.3	3.3	3.0	3.4
BAR LP 6162	4.7	2.3	2.7	2.0	3.0	2.0	1.7	2.7	2.3
LINN	4.7	2.7	1.3	1.7	2.0	1.0	1.0	1.3	1.4
LSD VALUE	7.3	5.6	3.2	2.2	2.1	2.1	1.8	1.4	1.7
C.V. (%)	23.2	28.9	24.0	21.0	19.4	21.6	18.9	15.7	17.9

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 A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
 THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
MN1	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	2.1-3.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS

TABLE 11.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER SPRING	PERCENT ESTABLISHMENT			QUALITY RATINGS						MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
DLFPS-236/3538	5.0	5.7	92.7	90.7	5.7	6.0	5.0	5.0	3.0	2.7	4.3	5.7	4.7
JR-123	5.7	5.3	90.0	90.0	5.3	5.7	4.7	4.7	3.3	3.7	5.0	5.3	4.7
FP2	6.0	5.3	94.3	94.0	5.7	6.0	4.7	4.3	3.0	3.0	4.3	5.7	4.6
DLFPS-236/3552	6.0	5.0	96.0	96.3	6.0	5.7	4.0	4.0	3.7	3.3	4.0	5.0	4.5
DLFPS-236/3553	5.7	6.0	94.3	92.3	5.3	5.7	3.7	4.0	3.3	4.0	4.3	5.3	4.5
FURLONG (LTP-FCB)	5.7	5.3	93.3	94.0	6.0	6.3	4.3	4.0	2.7	3.7	4.3	5.0	4.5
PST-2FOXY	5.3	5.0	90.0	85.0	5.3	6.0	4.7	4.3	3.3	3.7	4.0	4.7	4.5
PPG-PR 371	6.0	6.0	93.3	92.7	5.3	5.7	4.3	4.0	3.0	3.3	4.7	5.0	4.4
PST-2EGAD	6.0	5.3	91.7	89.0	6.0	6.0	5.0	4.3	2.7	2.3	4.3	4.7	4.4
BAR LP 6117	6.0	5.3	90.0	90.0	6.0	6.3	5.0	4.0	3.3	3.0	2.7	3.7	4.3
DLFPS-236/3542	6.3	5.7	95.0	94.0	6.3	6.0	4.7	4.0	3.7	3.0	3.3	3.3	4.3
DLFPS-236/3543	5.3	5.3	91.7	94.0	6.3	6.3	5.0	4.0	2.7	2.7	3.0	4.3	4.3
DLFPS-236/3544	6.3	5.0	93.3	92.3	6.0	6.3	4.3	3.7	3.3	2.7	3.7	4.7	4.3
DLFPS-236/3546	5.7	4.7	96.0	95.7	6.0	6.0	4.0	4.0	3.3	2.7	3.7	4.3	4.3
DLFPS-236/3547	6.3	5.0	97.0	95.7	6.3	6.7	4.0	3.7	3.3	3.0	3.3	4.3	4.3
DLFPS-238/3014	5.3	4.3	95.0	95.7	6.0	6.0	5.0	4.0	3.0	2.3	3.7	4.0	4.3
PPG-PR 419	5.3	5.7	95.0	95.7	5.3	6.0	4.0	3.7	3.3	2.7	4.3	5.0	4.3
PPG-PR 422	5.0	6.0	94.3	96.3	5.3	5.7	4.0	4.0	3.3	3.0	4.0	5.0	4.3
PR-5-16	4.7	6.0	96.0	94.0	5.7	6.3	4.0	3.7	3.3	3.3	4.0	4.3	4.3
023	5.7	5.7	94.3	98.0	6.0	5.7	4.3	3.7	3.0	3.7	3.3	3.7	4.2
DLFPS-236/3554	5.3	5.7	92.7	90.7	5.7	6.3	4.7	4.3	2.7	2.7	3.7	3.7	4.2
JR-197	5.3	5.7	90.0	92.3	5.3	6.0	4.0	4.0	2.3	2.7	4.0	5.0	4.2
PL2	5.3	6.7	95.0	92.7	5.0	5.3	4.0	4.0	3.3	2.7	4.0	5.0	4.2
PPG-PR 360	6.0	6.0	91.7	92.3	5.7	6.0	4.0	4.0	2.7	3.3	3.3	4.3	4.2
PPG-PR 420	6.0	4.3	91.7	94.0	5.3	5.7	3.7	3.7	3.3	3.3	4.0	4.7	4.2
PPG-PR 424	6.0	6.3	91.7	97.0	5.7	6.3	3.7	3.7	2.7	4.0	3.3	4.3	4.2
02BS1	5.3	4.3	91.7	91.7	6.0	6.0	4.3	4.0	2.3	2.7	3.3	4.0	4.1
ASP0117 (A-PR15)	3.7	6.0	95.0	94.0	6.0	6.0	4.3	3.7	2.7	3.7	3.0	3.3	4.1
KARMA	5.3	4.3	93.3	95.0	5.0	6.0	4.0	3.7	3.7	3.7	3.3	3.3	4.1
PPG-PR 329	6.3	5.3	91.7	90.7	5.7	6.0	4.3	4.0	2.7	2.3	3.3	4.3	4.1
PPG-PR 331	5.7	5.7	93.3	91.7	6.0	5.7	4.0	3.7	3.0	2.7	3.3	4.3	4.1
PPG-PR 339	4.7	6.0	94.3	90.0	5.0	5.7	4.7	4.0	3.3	2.7	3.3	4.3	4.1
PPG-PR 370	5.0	6.0	93.3	91.0	5.0	5.7	4.7	4.3	3.0	2.7	3.7	4.0	4.1
GRAY HAWK (PST-2FIND)	5.7	6.3	95.0	95.7	6.3	6.3	4.3	3.7	3.3	1.7	3.0	4.0	4.1
GRAY WOLF (PST-2GAL)	5.3	5.7	96.0	94.0	5.0	5.7	4.0	3.3	3.0	3.3	4.0	4.3	4.1
PST-2GTD	5.0	4.7	95.0	95.7	6.0	6.3	4.3	3.7	2.7	3.0	3.3	3.7	4.1
PST-2MAY	5.3	5.0	90.0	90.0	5.7	6.0	4.7	3.7	3.0	4.0	2.7	3.0	4.1
PEPPER II (RAD-PR 103)	5.7	5.0	93.3	90.0	5.7	6.3	3.7	3.7	3.0	3.0	3.7	3.7	4.1
02BS2	5.7	5.7	95.0	94.0	5.0	5.3	4.3	3.7	2.3	3.0	3.3	5.0	4.0
ASP0218 (A-6D)	5.7	5.0	91.7	91.3	5.7	6.0	4.0	4.0	2.7	2.0	4.0	4.0	4.0
BAR LP 6233	5.0	5.0	91.7	94.0	5.7	4.7	4.0	3.7	3.0	3.0	3.7	4.7	4.0
BSP-17	7.0	5.7	92.7	90.0	6.3	6.3	4.0	3.7	3.0	2.7	2.7	3.7	4.0
DLFPS-236/3545	6.3	5.0	93.3	92.3	6.0	5.7	4.3	4.0	3.0	2.0	3.0	3.7	4.0
DLFPS-236/3548	6.3	4.3	94.3	96.7	5.3	5.3	4.3	3.7	2.3	3.0	3.7	4.0	4.0
NP-2	6.3	6.3	94.3	93.0	6.0	6.3	4.0	3.7	2.0	2.7	3.3	4.0	4.0
NP-3	6.0	5.7	95.0	94.0	5.7	5.3	4.3	3.7	3.7	2.7	3.0	3.3	4.0
OVERDRIVE 5G	6.0	6.0	95.0	97.0	5.7	5.3	4.0	3.7	3.0	3.7	3.0	3.3	4.0

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER SPRING	PERCENT ESTABLISHMENT	QUALITY RATINGS								MEAN
					APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PHARAOH	5.3	6.0	93.3	91.7	5.7	5.7	4.3	3.7	3.3	2.7	3.0	3.3	4.0
PPG-PR 372	6.0	5.7	94.3	94.0	5.7	5.7	4.3	4.0	2.3	3.7	3.3	3.3	4.0
SILVER SPORT (PST-2CRP)	6.3	4.0	95.0	93.3	6.0	6.3	4.0	3.3	3.3	2.7	3.0	3.7	4.0
RRT	5.0	4.7	93.3	91.7	5.3	5.0	4.0	3.7	3.0	3.0	3.3	4.3	4.0
UF3	5.3	5.7	90.0	91.7	5.7	6.3	4.0	3.7	3.0	2.3	3.0	3.7	4.0
APR2616	6.0	5.7	91.7	90.0	5.7	5.3	5.0	4.0	3.0	2.3	2.7	3.0	3.9
APR3060	5.7	4.7	91.7	91.7	5.3	5.7	4.3	3.7	2.3	3.0	3.0	3.7	3.9
CPN	6.0	6.0	95.0	96.0	5.7	5.7	4.0	3.7	3.0	3.7	2.7	3.0	3.9
DERBY XTREME	6.3	5.7	93.3	92.7	6.0	6.3	3.7	3.3	3.7	3.0	2.7	2.7	3.9
GO-141	7.0	5.7	94.3	97.3	6.7	6.0	3.0	3.0	3.0	4.3	3.0	2.3	3.9
PST-2PDA	5.3	5.3	93.3	93.3	5.7	5.0	3.7	3.3	3.0	3.3	3.7	3.7	3.9
SNX	7.0	5.3	91.7	93.7	5.7	6.7	3.0	3.0	2.7	2.3	3.7	4.0	3.9
XCELERATOR	6.0	5.3	91.7	95.7	6.0	5.7	4.3	3.7	2.3	2.0	3.3	3.7	3.9
021	4.7	6.0	91.7	94.0	5.7	6.0	3.7	3.3	2.7	2.3	3.0	3.3	3.8
SHIELD (02BS4)	5.0	5.3	93.3	94.0	5.0	5.0	3.7	3.7	2.7	2.7	3.7	4.3	3.8
BAR LP 6158	5.3	5.0	91.7	90.0	5.3	5.7	4.0	3.3	3.0	2.3	3.3	3.3	3.8
BAR LP 6159	6.0	5.7	91.7	91.7	6.0	5.7	4.7	3.7	2.7	2.7	2.7	2.7	3.8
BAR LP 6162	4.7	4.3	91.7	90.7	5.7	5.7	4.7	3.3	2.3	3.0	2.7	2.7	3.8
BAR LP 6164	5.0	6.0	93.3	95.0	5.7	6.3	3.3	3.7	2.7	2.0	3.3	3.7	3.8
CS-6	6.7	4.7	93.3	93.3	6.3	6.7	3.7	3.3	2.3	2.7	2.3	3.0	3.8
DLFPS-236/3540	5.7	6.0	93.3	95.7	6.0	6.0	3.3	3.3	2.3	3.0	3.0	3.0	3.8
EVOLVE	6.0	6.0	91.7	95.0	5.7	5.7	4.0	3.3	2.3	2.7	3.0	3.3	3.8
GO-142	5.7	5.3	95.0	95.7	6.0	6.0	3.3	3.3	3.0	3.3	3.0	2.3	3.8
GO-143	5.7	5.7	94.3	91.0	6.0	5.7	3.7	3.7	3.7	3.0	2.3	2.7	3.8
GRAND SLAM GLD	5.0	5.3	91.7	89.0	5.3	6.0	4.7	3.3	2.7	2.7	3.0	3.0	3.8
JR-888	5.7	5.7	91.7	91.7	5.0	5.3	3.7	3.7	2.7	3.0	3.3	3.7	3.8
MAN O WAR	5.0	6.0	93.3	93.3	4.7	5.7	4.3	3.7	2.7	3.3	2.7	3.0	3.8
MRSL-PR15	6.0	5.7	91.7	91.7	5.7	5.3	4.0	3.3	2.7	2.7	3.3	3.0	3.8
PPG-PR 241	5.7	5.3	96.0	92.3	5.3	5.7	4.3	3.7	2.7	3.0	2.7	3.0	3.8
PPG-PR 385	5.0	6.0	95.0	95.7	5.0	5.3	4.3	3.3	2.7	3.0	3.0	3.7	3.8
PPG-PR 421	4.7	6.0	92.7	93.3	5.0	5.0	4.7	4.0	2.7	2.7	3.0	3.7	3.8
PR-6-15	6.3	5.0	95.0	97.3	6.3	6.0	4.0	3.7	2.7	2.3	2.3	3.0	3.8
PST-2BDT	5.7	4.7	93.3	92.3	6.0	6.0	4.0	3.7	2.7	2.7	2.7	3.0	3.8
SEABISCUIT	4.7	6.3	91.7	95.7	5.3	5.7	3.7	3.3	2.0	3.0	3.3	3.7	3.8
DLFPS-236/3541	6.0	5.0	93.3	93.3	5.7	6.0	4.0	3.7	2.7	2.0	2.7	2.7	3.7
INTENSE	6.0	5.3	93.3	93.7	6.0	6.3	4.0	3.3	2.3	2.0	2.7	3.0	3.7
PPG-PR 343	6.0	5.3	95.0	94.0	6.0	5.3	3.3	3.0	2.7	2.7	3.0	3.7	3.7
PPG-PR 367	5.0	5.7	93.3	96.3	5.0	5.3	4.3	3.7	2.7	2.7	3.0	3.0	3.7
PPG-PR 423	5.0	5.7	93.3	94.7	5.7	5.3	4.0	3.0	2.7	2.7	3.0	3.0	3.7
RAD-PR 112	6.0	4.7	90.0	93.3	5.7	6.0	3.7	3.3	2.3	3.0	2.7	2.7	3.7
SIGNET	6.0	6.0	91.7	92.3	6.0	5.7	3.7	3.0	2.3	2.7	3.0	3.0	3.7
UMPQUA	5.7	6.3	93.3	90.0	5.3	5.0	4.3	3.0	3.7	2.3	3.0	3.0	3.7
APR2612	5.7	5.0	93.3	92.3	5.7	5.3	4.0	3.0	2.0	3.0	2.7	3.0	3.6
BAR LP 6131	5.7	5.3	93.3	90.7	5.7	6.0	3.7	3.3	2.3	2.7	2.3	3.0	3.6
BRIGHTSTAR SLT	5.7	5.7	91.7	92.3	5.7	5.7	3.7	3.0	2.7	3.0	2.7	2.7	3.6
DLFPS-236/3550	5.3	4.3	93.3	96.0	5.3	5.3	4.3	3.0	2.3	2.7	2.7	3.3	3.6
ASP0118GL (A-4G)	5.7	5.0	95.0	90.0	5.3	5.3	4.3	2.7	2.7	2.7	2.3	2.7	3.5

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT COLUMBIA, MO 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT		APR	MAY	JUN	QUALITY RATINGS					MEAN
			COVER SPRING	PERCENT ESTABLISHMENT				JUL	AUG	SEP	OCT	NOV	
ASP0116EXT	5.7	6.0	91.7	90.0	6.0	5.7	4.0	3.0	2.7	2.7	2.0	2.0	3.5
BAR LP 6165	4.7	4.3	93.3	89.0	5.7	5.0	3.3	3.3	2.0	2.3	2.7	3.3	3.5
BSP-25	6.3	5.3	91.7	94.0	5.3	6.0	4.7	2.7	2.3	2.3	2.3	2.3	3.5
DLFPS-236/3556	5.3	6.0	93.3	96.7	5.3	5.7	3.7	3.0	2.3	2.3	2.7	3.0	3.5
LPB-SD-104	6.7	5.0	95.0	94.7	5.7	6.0	3.0	3.0	2.3	3.7	2.3	2.0	3.5
MENSA	6.0	5.0	93.3	91.7	5.7	5.3	3.7	3.0	2.7	3.0	2.3	2.3	3.5
PST-2A2	5.7	5.3	91.7	91.0	5.3	5.7	4.0	3.3	2.3	2.3	2.7	2.7	3.5
SAVANT	4.7	6.7	93.3	91.7	5.0	5.7	3.7	3.0	3.3	2.7	2.3	2.3	3.5
SR 4650	6.3	6.0	95.0	94.3	6.0	6.0	3.3	2.7	2.3	2.3	2.3	2.7	3.5
AMP-R1	5.7	5.0	93.3	91.7	5.3	5.3	3.7	3.3	2.3	2.0	2.3	3.0	3.4
LPB-SD-101	5.0	5.3	96.0	93.3	5.7	5.7	4.0	3.0	2.0	2.7	2.0	2.0	3.4
MRSL-PR16	6.3	5.0	93.3	90.0	5.7	5.3	4.0	3.0	2.0	2.0	2.3	2.7	3.4
ALLSTAR III	5.7	5.3	91.7	91.7	4.7	5.3	3.7	3.0	2.3	1.7	2.3	3.0	3.3
LPB-SD-102	6.0	5.3	93.3	93.3	5.7	5.7	3.7	3.7	2.0	2.0	2.0	2.0	3.3
LPB-SD-103	6.0	5.0	93.3	92.3	5.7	5.7	3.3	3.3	2.3	2.0	2.3	2.0	3.3
LPB-SD-105	6.0	4.0	94.3	93.3	5.3	5.7	3.3	2.7	2.0	2.7	2.7	2.3	3.3
BWH	5.7	6.0	90.0	90.0	4.3	5.3	4.0	3.0	2.3	2.3	2.0	2.3	3.2
SAGUARO	5.7	5.3	93.3	94.0	4.7	4.7	3.7	2.7	2.3	2.0	3.0	2.7	3.2
JR-747	6.0	5.7	91.7	94.3	5.0	4.7	3.7	2.7	1.7	2.0	1.7	2.0	2.9
LINN	4.3	4.0	91.7	90.0	4.3	3.3	2.3	3.0	2.3	2.7	2.3	2.7	2.9
LSD VALUE	3.3	1.3	12.1	18.1	2.6	2.2	1.3	1.2	3.8	3.6	1.7	1.8	0.8
C.V. (%)	16.4	12.7	3.0	4.3	12.6	12.7	15.3	16.2	29.4	31.9	26.0	27.6	10.5

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
MO1	-	-	-	-	-	-	-	-

TABLE 12. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT FARGO, ND 1/
2017 DATA

NAME	SUMMER	FALL	MEAN
GO-143	73.3	85.0	79.2
EVOLVE	71.7	85.0	78.3
BAR LP 6165	73.3	81.7	77.5
PST-2GTD	71.7	80.0	75.8
RAD-PR 112	68.3	81.7	75.0
DLFPS-236/3541	66.7	76.7	71.7
SEABISCUIT	63.3	75.0	69.2
LPB-SD-105	60.0	75.0	67.5
APR3060	61.7	71.7	66.7
PST-2FOXY	58.3	75.0	66.7
DLFPS-236/3538	58.3	73.3	65.8
ALLSTAR III	56.7	73.3	65.0
AMP-R1	56.7	73.3	65.0
XCELERATOR	51.7	78.3	65.0
PPG-PR 331	55.0	73.3	64.2
PPG-PR 367	50.0	78.3	64.2
PPG-PR 423	55.0	73.3	64.2
SNX	53.3	75.0	64.2
UF3	56.7	71.7	64.2
CS-6	55.0	71.7	63.3
DLFPS-236/3553	55.0	71.7	63.3
PPG-PR 371	51.7	75.0	63.3
PPG-PR 372	51.7	75.0	63.3
BAR LP 6164	58.3	66.7	62.5
FP2	56.7	68.3	62.5
PHARAOH	53.3	71.7	62.5
PST-2PDA	53.3	71.7	62.5
NP-2	48.3	75.0	61.7
PPG-PR 422	55.0	68.3	61.7
SILVER SPORT (PST-2CRP)	56.7	66.7	61.7
UMPQUA	56.7	66.7	61.7
O2BS2	50.0	71.7	60.8
PPG-PR 241	51.7	68.3	60.0
SHIELD (O2BS4)	50.0	68.3	59.2
PST-2A2	51.7	66.7	59.2
DLFPS-236/3550	48.3	68.3	58.3
BAR LP 6233	51.7	63.3	57.5
ASPO218 (A-6D)	48.3	65.0	56.7
DLFPS-236/3554	51.7	60.0	55.8
GO-141	48.3	63.3	55.8
LPB-SD-103	48.3	63.3	55.8
PPG-PR 419	46.7	65.0	55.8
JR-123	45.0	65.0	55.0
ASPO117 (A-PR15)	45.0	61.7	53.3
BSP-25	45.0	61.7	53.3
DLFPS-236/3556	43.3	63.3	53.3
GRAY WOLF (PST-2GAL)	48.3	56.7	52.5

TABLE 12. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT FARGO, ND 1/
 2017 DATA

NAME	SUMMER	FALL	MEAN
JR-197	48.3	56.7	52.5
PST-2EGAD	45.0	60.0	52.5
APR2612	46.7	56.7	51.7
DLFPS-236/3544	36.7	65.0	50.8
PST-2BDT	46.7	55.0	50.8
021	43.3	56.7	50.0
DLFPS-236/3552	43.3	55.0	49.2
DLFPS-236/3547	40.0	56.7	48.3
BRIGHTSTAR SLT	41.7	53.3	47.5
GO-142	41.7	51.7	46.7
DLFPS-236/3545	38.3	53.3	45.8
GRAY HAWK (PST-2FIND)	41.7	50.0	45.8
PPG-PR 421	38.3	53.3	45.8
DLFPS-236/3546	38.3	48.3	43.3
BAR LP 6131	36.7	48.3	42.5
BAR LP 6158	35.0	50.0	42.5
PST-2MAY	36.7	46.7	41.7
LPB-SD-102	31.7	50.0	40.8
MRSL-PR15	35.0	46.7	40.8
ASPO118GL (A-4G)	35.0	45.0	40.0
CPN	33.3	45.0	39.2
RRT	33.3	45.0	39.2
JR-888	28.3	48.3	38.3
PL2	31.7	45.0	38.3
PPG-PR 360	26.7	50.0	38.3
PPG-PR 420	33.3	43.3	38.3
PPG-PR 339	33.3	41.7	37.5
BAR LP 6162	33.3	40.0	36.7
PPG-PR 343	30.0	43.3	36.7
PPG-PR 370	28.3	45.0	36.7
DLFPS-236/3540	28.3	43.3	35.8
DLFPS-236/3548	30.0	41.7	35.8
DERBY XTREME	30.0	40.0	35.0
DLFPS-236/3543	28.3	41.7	35.0
NP-3	26.7	43.3	35.0
02BS1	31.7	36.7	34.2
BSP-17	28.3	40.0	34.2
PR-5-16	30.0	38.3	34.2
PR-6-15	30.0	38.3	34.2
DLFPS-238/3014	28.3	38.3	33.3
PPG-PR 329	23.3	43.3	33.3
OVERDRIVE 5G	26.7	38.3	32.5
SR 4650	28.3	36.7	32.5
BWH	23.3	40.0	31.7
PEPPER II (RAD-PR 103)	26.7	36.7	31.7
APR2616	25.0	36.7	30.8
PPG-PR 385	21.7	38.3	30.0

TABLE 12. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
(CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT FARGO, ND 1/
2017 DATA

NAME	SUMMER	FALL	MEAN
SIGNET	21.7	35.0	28.3
O23	23.3	30.0	26.7
BAR LP 6159	20.0	28.3	24.2
MAN O WAR	21.7	26.7	24.2
MENSA	18.3	28.3	23.3
LINN	18.3	25.0	21.7
ASPO116EXT	16.7	25.0	20.8
GRAND SLAM GLD	16.7	21.7	19.2
LPB-SD-104	11.7	26.7	19.2
FURLONG (LTP-FCB)	13.3	18.3	15.8
DLFPS-236/3542	10.0	18.3	14.2
KARMA	11.7	16.7	14.2
PPG-PR 424	11.7	16.7	14.2
BAR LP 6117	11.7	15.0	13.3
JR-747	10.0	16.7	13.3
LPB-SD-101	6.7	15.0	10.8
SAGUARO	6.7	15.0	10.8
INTENSE	5.0	15.0	10.0
SAVANT	6.7	11.7	9.2
MRSL-PR16	5.0	11.7	8.3
LSD VALUE	9.4	9.2	8.8
C.V. (%)	16.7	12.3	13.4

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 A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
ND1	SILTY CLAY AND CLAY	7.1-7.5	0-60	151-240	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY

TABLE 13.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT ESTABLISHMENT	QUALITY RATINGS							MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	
PST-2BDT	6.3	4.0	60.0	4.3	4.7	5.7	5.3	7.0	7.0	7.0	5.9
LPB-SD-102	6.7	5.0	63.3	4.7	5.0	6.0	5.0	6.7	7.0	6.0	5.8
LPB-SD-105	6.3	4.7	66.7	4.0	5.0	6.0	5.3	7.0	7.0	6.3	5.8
023	5.0	4.0	60.0	4.0	4.3	5.7	4.7	7.0	7.0	7.0	5.7
CPN	5.7	4.3	60.0	4.0	4.7	6.0	4.3	7.0	7.0	6.7	5.7
SAVANT	5.7	4.0	63.3	4.3	5.3	6.0	5.0	6.7	6.7	6.0	5.7
DLFPS-236/3540	6.0	4.3	60.0	4.7	5.7	5.7	4.0	6.3	6.3	6.3	5.6
FP2	6.0	4.0	63.3	4.0	4.7	6.0	4.0	7.0	7.0	6.7	5.6
JR-197	6.0	4.3	56.7	4.0	4.3	5.7	4.7	7.0	7.0	6.7	5.6
JR-888	4.7	4.0	63.3	4.0	5.0	6.0	4.3	6.7	6.7	6.7	5.6
LPB-SD-101	5.3	4.0	60.0	4.7	4.7	6.0	3.7	7.0	6.7	6.3	5.6
PPG-PR 329	6.0	3.7	60.0	4.3	4.0	5.7	4.7	7.0	7.0	6.7	5.6
PPG-PR 419	6.0	4.0	60.0	4.0	4.3	5.7	4.7	7.0	6.7	6.7	5.6
PPG-PR 241	6.0	4.3	56.7	4.0	5.3	5.7	3.7	6.7	7.0	6.3	5.5
PPG-PR 371	6.0	4.3	60.0	4.3	5.0	6.0	4.0	6.7	6.3	6.3	5.5
PPG-PR 423	6.3	4.0	60.0	4.0	5.0	6.0	3.3	6.3	7.0	6.7	5.5
SILVER SPORT (PST-2CRP)	6.7	4.3	56.7	4.0	5.0	5.7	4.0	6.7	6.7	6.7	5.5
SHIELD (02BS4)	6.0	3.7	56.7	4.3	4.0	5.0	4.0	6.7	7.0	6.7	5.4
APR2616	6.0	4.3	53.3	4.0	4.7	5.7	4.0	7.0	6.3	6.3	5.4
DLFPS-236/3543	6.3	4.3	56.7	4.0	4.3	5.7	4.0	6.7	6.3	6.7	5.4
DLFPS-236/3544	5.7	4.0	56.7	4.0	4.7	5.7	4.0	6.7	6.7	6.3	5.4
DLFPS-236/3545	6.0	4.0	63.3	4.0	4.0	5.7	4.3	6.7	6.7	6.7	5.4
DLFPS-236/3552	6.3	4.3	56.7	4.3	5.0	5.7	3.3	6.3	6.7	6.7	5.4
DLFPS-236/3554	6.7	4.0	53.3	4.7	4.3	5.7	3.3	6.7	6.7	6.7	5.4
NP-2	6.0	4.3	56.7	3.7	3.7	5.0	5.0	7.0	6.7	6.7	5.4
OVERDRIVE 5G	5.7	4.3	56.7	4.0	4.7	5.3	4.3	6.7	6.7	6.3	5.4
RRT	6.0	4.0	56.7	4.3	5.0	5.7	3.3	6.7	6.3	6.3	5.4
SR 4650	5.7	3.7	60.0	4.3	4.0	5.3	4.3	7.0	6.7	6.3	5.4
DLFPS-236/3541	6.3	4.7	60.0	4.3	4.7	5.7	3.3	6.7	6.3	6.0	5.3
INTENSE	6.0	3.7	56.7	4.0	3.7	5.0	4.0	7.0	7.0	6.7	5.3
PPG-PR 372	6.0	4.3	56.7	4.0	5.0	5.7	3.3	6.7	6.3	6.0	5.3
PPG-PR 424	5.3	4.0	60.0	4.3	4.0	5.3	4.3	6.3	6.3	6.3	5.3
PR-6-15	6.3	5.0	63.3	4.7	4.7	5.0	3.7	6.7	6.3	6.3	5.3
GRAY WOLF (PST-2GAL)	6.3	4.0	60.0	4.3	4.7	5.7	3.0	6.7	6.3	6.3	5.3
SAGUARO	6.0	4.3	56.7	4.0	4.7	5.7	4.0	6.3	6.3	6.3	5.3
BAR LP 6233	4.7	3.3	63.3	3.7	4.3	5.3	3.3	6.7	7.0	6.0	5.2
PHARAOH	6.3	4.0	56.7	4.0	4.3	5.3	3.7	6.3	6.3	6.3	5.2
PPG-PR 370	6.7	4.0	60.0	4.3	4.7	5.3	3.3	6.7	6.3	6.0	5.2
PPG-PR 421	6.0	4.0	63.3	4.0	4.7	5.7	4.0	6.3	6.0	6.0	5.2
PST-2EGAD	6.0	3.3	60.0	4.0	4.0	4.7	3.7	7.0	6.7	6.7	5.2
PST-2GTD	5.3	4.0	50.0	4.0	4.0	5.0	4.3	6.7	6.0	6.3	5.2
XCELERATOR	5.7	4.3	60.0	4.0	4.0	5.0	4.0	6.7	6.3	6.3	5.2
BAR LP 6159	5.7	4.0	56.7	4.0	4.7	5.3	3.3	6.3	6.0	6.0	5.1
DLFPS-236/3538	6.0	4.0	60.0	4.0	4.0	5.0	4.0	6.3	6.3	6.0	5.1
DLFPS-236/3542	6.3	4.7	56.7	4.0	4.7	5.3	3.3	6.7	6.0	6.0	5.1
DLFPS-236/3550	6.0	4.0	60.0	4.0	4.3	5.3	3.0	6.7	6.3	6.0	5.1
DLFPS-236/3556	5.3	4.0	60.0	4.0	4.3	5.0	4.3	6.3	5.7	6.0	5.1

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT ESTABLISHMENT	QUALITY RATINGS								MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT		
JR-747	6.7	4.7	56.7	4.3	4.7	5.7	3.7	6.0	5.7	5.7	5.1	
MENSA	6.0	4.0	50.0	4.0	5.0	5.3	3.3	6.3	6.0	6.0	5.1	
PPG-PR 420	5.7	4.0	60.0	4.0	4.3	5.3	3.0	7.0	6.3	6.0	5.1	
PR-5-16	6.0	3.7	60.0	4.0	4.7	5.3	3.3	6.3	6.0	6.0	5.1	
021	5.7	3.7	56.7	4.3	4.0	5.0	3.7	6.0	6.0	6.0	5.0	
ASPO118GL (A-4G)	6.3	3.7	50.0	4.0	4.0	5.3	3.3	6.3	6.3	5.7	5.0	
BAR LP 6117	5.3	4.0	60.0	4.0	4.3	5.0	2.7	6.7	6.3	5.7	5.0	
BAR LP 6165	3.3	3.7	60.0	3.7	4.7	5.3	4.3	6.0	5.7	5.7	5.0	
BRIGHTSTAR SLT	5.7	4.3	56.7	4.0	3.7	5.0	3.3	6.7	6.0	6.3	5.0	
DERBY XTREME	6.0	3.7	56.7	3.7	4.0	5.3	3.3	6.7	6.0	6.0	5.0	
DLFPS-236/3546	5.7	4.0	56.7	4.0	3.7	5.0	3.0	6.7	6.3	6.3	5.0	
DLFPS-236/3553	5.7	4.0	60.0	4.0	4.7	5.3	3.3	6.3	5.3	6.3	5.0	
KARMA	6.0	3.7	53.3	4.0	5.0	5.0	3.3	6.0	5.7	5.7	5.0	
LPB-SD-103	6.3	4.3	60.0	4.0	4.7	5.3	3.3	6.3	6.0	5.3	5.0	
FURLONG (LTP-FCB)	5.3	4.0	56.7	3.7	3.7	5.0	4.0	6.3	6.3	6.3	5.0	
PL2	5.3	3.7	63.3	3.7	4.3	5.0	3.7	6.3	6.0	5.7	5.0	
PPG-PR 331	5.7	4.0	56.7	4.0	4.7	5.7	3.3	6.0	6.0	5.7	5.0	
PPG-PR 343	5.7	4.0	56.7	4.0	3.7	5.3	3.3	6.3	6.0	6.0	5.0	
PPG-PR 360	6.3	4.0	56.7	4.0	4.7	5.0	3.3	6.7	6.0	5.3	5.0	
PPG-PR 367	6.0	3.7	56.7	4.0	3.7	4.3	3.7	7.0	6.0	6.0	5.0	
PPG-PR 422	5.3	4.0	53.3	3.7	4.3	5.3	3.3	6.0	6.3	6.0	5.0	
GRAY HAWK (PST-2FIND)	6.0	3.7	60.0	4.0	3.7	5.0	4.0	6.3	6.3	6.0	5.0	
PST-2FOXY	6.7	4.3	56.7	4.0	3.7	5.3	3.3	6.3	6.3	6.3	5.0	
PST-2PDA	5.3	3.7	53.3	4.0	4.0	5.0	3.7	6.3	6.3	6.0	5.0	
SIGNET	5.3	3.7	60.0	3.7	4.0	5.3	3.7	6.3	6.0	5.7	5.0	
02BS1	6.3	4.0	56.7	3.7	4.0	4.7	2.7	6.7	6.3	6.3	4.9	
02BS2	5.3	3.7	56.7	3.7	3.7	4.7	3.3	6.7	6.0	6.0	4.9	
ASPO117 (A-PR15)	6.0	4.0	56.7	3.7	5.0	5.0	3.3	6.3	5.3	5.7	4.9	
APR3060	6.3	3.7	50.0	4.0	4.3	4.7	3.3	6.3	6.0	5.7	4.9	
DLFPS-236/3547	5.3	4.3	63.3	4.0	3.7	4.7	3.3	6.7	6.0	6.0	4.9	
EVOLVE	5.3	3.7	56.7	3.7	4.3	5.0	3.7	6.0	6.0	5.7	4.9	
GO-141	6.7	4.0	56.7	4.0	3.7	4.7	3.3	6.3	6.3	5.7	4.9	
GRAND SLAM GLD	5.7	4.3	60.0	3.7	4.7	5.0	3.0	6.3	5.7	6.0	4.9	
JR-123	6.0	4.3	53.3	3.7	4.3	5.3	3.0	6.7	5.7	5.3	4.9	
LPB-SD-104	7.0	4.7	50.0	4.0	5.0	5.3	2.7	6.0	5.7	5.3	4.9	
PPG-PR 339	6.0	4.0	53.3	4.0	4.3	5.3	3.0	6.0	5.7	5.7	4.9	
PST-2MAY	6.0	3.3	53.3	4.0	3.7	5.0	3.3	6.3	6.0	6.0	4.9	
ALLSTAR III	5.7	4.0	60.0	3.7	4.0	4.7	2.7	6.3	6.3	6.0	4.8	
BAR LP 6131	5.0	3.7	60.0	3.7	4.3	5.0	2.7	6.0	6.0	6.0	4.8	
BAR LP 6164	5.7	4.0	56.7	4.0	4.3	5.3	3.3	5.7	5.7	5.3	4.8	
MAN O WAR	5.7	4.0	60.0	4.0	3.7	5.3	3.0	6.3	5.7	5.3	4.8	
UF3	6.0	3.7	56.7	3.7	4.3	4.7	3.0	6.0	6.0	5.7	4.8	
BWH	7.0	4.3	53.3	4.0	4.7	4.7	2.7	6.0	5.7	5.0	4.7	
GO-142	5.7	3.7	56.7	4.0	3.7	5.0	3.0	6.0	5.7	5.3	4.7	
PST-2A2	6.0	4.0	60.0	3.7	3.7	4.7	3.0	6.3	6.0	5.7	4.7	
SEABISCUIT	6.0	4.0	56.7	3.0	3.7	4.7	3.0	6.7	6.0	5.7	4.7	
ASPO116EXT	6.7	4.7	60.0	4.0	4.3	4.7	3.0	5.3	5.3	5.3	4.6	

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT ESTABLISHMENT	QUALITY RATINGS							MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	
GO-143	6.7	4.3	53.3	3.7	3.3	4.7	3.0	6.0	6.0	5.7	4.6
NP-3	5.3	4.0	50.0	4.0	3.3	5.3	2.7	6.0	5.3	5.3	4.6
PPG-PR 385	5.0	3.3	53.3	4.0	3.7	4.7	3.0	5.7	5.7	5.3	4.6
UMPQUA	5.7	4.0	56.7	3.3	3.0	4.7	3.7	6.7	5.7	5.3	4.6
MRSL-PR16	7.0	4.3	56.7	3.7	4.0	4.7	3.0	5.7	5.7	5.0	4.5
PEPPER II (RAD-PR 103)	7.0	4.7	53.3	4.0	4.7	4.3	2.0	6.0	5.3	5.3	4.5
ASPO218 (A-6D)	6.7	4.7	50.0	4.0	4.0	4.7	2.0	5.7	5.7	4.7	4.4
APR2612	6.3	3.7	46.7	3.7	3.7	4.3	2.7	5.7	5.7	5.3	4.4
BAR LP 6158	6.0	4.0	53.3	3.7	4.0	4.7	2.7	5.7	5.7	4.7	4.4
MRSL-PR15	6.3	3.7	50.0	3.7	3.7	4.3	2.7	6.0	5.3	5.3	4.4
DLFPS-236/3548	5.3	4.0	53.3	3.3	3.0	4.3	2.7	6.0	5.7	5.0	4.3
BSP-17	7.0	4.7	50.0	3.7	3.7	4.0	2.7	5.3	5.3	4.7	4.2
DLFPS-238/3014	5.0	3.0	46.7	3.0	3.7	4.7	2.3	5.7	5.3	5.0	4.2
BAR LP 6162	6.0	3.3	53.3	3.3	3.3	4.3	2.0	5.3	5.3	5.0	4.1
RAD-PR 112	6.0	4.3	56.7	3.7	3.7	4.0	2.3	5.3	5.0	4.7	4.1
SNX	6.7	4.0	56.7	3.7	3.7	4.3	2.7	5.0	5.0	4.7	4.1
BSP-25	6.7	4.0	46.7	3.3	3.7	4.0	2.3	5.0	5.0	4.3	4.0
CS-6	6.3	4.0	50.0	3.3	3.3	4.3	2.0	5.3	5.3	4.7	4.0
AMP-R1	6.3	4.0	50.0	3.0	3.0	3.7	2.0	5.0	5.0	4.0	3.7
LINN	3.0	3.0	56.7	2.0	2.0	3.0	3.0	4.0	4.0	3.0	3.0
LSD VALUE	0.8	1.2	22.5	0.9	1.6	1.3	1.1	1.0	0.9	1.2	0.7
C.V. (%)	8.6	12.6	11.3	11.4	17.8	12.8	19.5	9.0	9.0	11.4	8.7

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 A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS

TABLE 14.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	CROWN RUST	GREEN LEAF SPOT	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
FURLONG (LTP-FCB)	8.3	7.7	7.0	8.3	8.0	5.7	7.0	6.3	8.7	7.0	7.3
NP-2	6.7	8.3	7.0	7.0	6.3	7.0	6.7	6.7	7.7	6.7	6.9
PPG-PR 424	7.7	7.7	6.7	7.0	6.3	6.3	7.7	6.0	7.7	5.3	6.6
023	7.0	7.7	6.7	6.3	6.0	5.7	7.3	7.3	6.3	6.3	6.5
DLFPS-236/3541	5.0	7.3	7.0	6.3	6.7	5.7	7.3	6.0	7.0	6.0	6.5
PPG-PR 423	6.0	8.7	7.0	6.7	7.7	6.0	7.3	6.0	6.0	5.3	6.5
DLFPS-236/3547	8.0	7.7	6.7	6.7	6.3	6.0	6.0	6.0	7.7	6.0	6.4
NP-3	6.0	8.7	7.3	6.0	6.0	7.3	7.3	6.0	6.0	5.3	6.4
PPG-PR 371	6.0	7.3	6.7	6.0	7.0	7.0	7.0	6.7	5.7	5.3	6.4
DLFPS-236/3542	4.3	8.3	6.0	7.0	8.0	6.7	6.7	5.0	5.7	5.7	6.3
DLFPS-236/3546	7.0	8.0	6.3	6.7	5.3	5.0	6.7	6.3	7.3	6.7	6.3
DLFPS-236/3548	4.3	6.0	6.3	6.3	7.7	6.7	7.0	6.3	5.0	4.7	6.3
PPG-PR 343	6.3	8.7	6.3	6.0	7.0	6.3	7.0	5.7	6.7	5.3	6.3
PPG-PR 360	5.3	7.7	7.0	6.3	6.3	7.3	6.3	6.0	5.7	5.0	6.3
PPG-PR 420	4.7	7.7	6.3	6.3	6.7	6.3	6.7	6.0	5.7	6.0	6.3
PPG-PR 421	4.7	8.3	6.7	5.7	6.0	6.7	8.0	6.0	5.7	5.7	6.3
SILVER SPORT (PST-2CRP)	7.7	8.0	7.3	6.7	5.7	6.3	6.0	5.3	7.0	5.7	6.3
RRT	4.3	7.3	7.3	6.0	5.3	5.0	7.0	6.7	7.0	5.7	6.3
DLFPS-236/3540	4.3	5.7	6.0	6.0	7.0	5.7	6.3	6.3	6.0	6.0	6.2
DLFPS-236/3543	3.7	7.0	6.3	6.7	6.7	6.7	6.7	6.7	5.3	4.7	6.2
DLFPS-236/3556	5.7	8.0	5.7	7.3	6.7	6.0	7.3	6.3	5.0	5.3	6.2
INTENSE	4.7	7.0	6.7	5.7	6.0	6.3	7.0	6.0	6.3	5.3	6.2
PPG-PR 419	7.7	6.7	5.3	6.0	5.3	6.3	7.3	6.7	7.0	5.3	6.2
021	6.3	8.0	6.7	6.7	5.0	6.0	7.3	5.7	6.0	5.3	6.1
PPG-PR 331	4.3	7.3	6.7	6.3	6.0	6.3	6.7	5.3	6.0	5.7	6.1
PPG-PR 372	4.7	7.7	6.3	6.3	6.0	6.0	6.7	6.7	5.3	5.7	6.1
SIGNET	5.0	8.3	6.7	6.0	7.0	6.7	7.0	5.7	5.3	4.7	6.1
APR2616	4.0	7.0	6.3	6.3	6.0	7.0	7.0	5.7	5.0	4.7	6.0
FP2	6.3	8.3	6.3	6.0	4.7	5.7	5.3	6.7	7.0	6.0	6.0
JR-197	6.3	8.7	6.7	7.0	4.0	5.3	6.3	6.0	6.3	6.0	6.0
PL2	7.0	7.7	6.0	7.0	5.3	5.0	6.3	5.7	8.0	5.0	6.0
PPG-PR 241	4.7	7.0	7.0	6.3	6.0	6.0	6.7	5.7	5.7	4.3	6.0
PPG-PR 329	7.3	8.0	6.3	5.7	4.7	5.7	6.7	6.3	7.3	5.7	6.0
PPG-PR 370	4.7	7.7	6.0	6.7	6.3	6.0	6.3	6.0	6.0	5.0	6.0
XCELERATOR	6.7	7.7	6.3	6.3	4.7	5.0	6.7	6.0	6.7	6.3	6.0
02BS1	5.3	8.7	7.0	6.3	4.0	5.3	6.0	6.0	6.0	6.3	5.9
CPN	7.7	7.3	6.0	6.0	4.7	6.0	6.7	6.0	6.7	5.0	5.9
DLFPS-236/3545	7.3	8.3	6.0	6.7	4.0	5.0	6.3	6.3	6.7	6.0	5.9
OVERDRIVE 5G	5.7	7.7	6.7	6.3	5.7	5.3	6.7	5.3	5.7	5.7	5.9
PPG-PR 422	5.7	8.3	6.7	6.3	5.3	6.0	6.3	6.0	6.3	4.3	5.9
PR-6-15	5.7	8.3	7.0	6.3	5.7	5.0	5.7	5.0	6.7	5.7	5.9
PST-2A2	5.7	7.7	6.7	6.7	5.0	6.3	6.3	5.7	5.0	5.3	5.9
GRAY WOLF (PST-2GAL)	5.3	8.3	6.3	6.3	6.0	6.7	6.7	5.7	5.3	4.3	5.9
02BS2	6.0	8.0	7.3	5.7	4.7	5.0	6.3	5.3	6.7	5.7	5.8
SHIELD (02BS4)	7.0	5.7	6.7	6.0	5.3	5.0	6.3	5.0	6.7	5.3	5.8
DLFPS-236/3550	3.7	6.3	6.0	6.0	7.0	5.3	6.3	5.3	5.0	5.3	5.8
DLFPS-236/3554	3.7	5.7	6.3	6.3	6.7	6.0	6.3	5.7	4.7	4.7	5.8

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	CROWN RUST	GRAY LEAF SPOT	APR	MAY	JUN	QUALITY RATINGS					MEAN
						JUL	AUG	SEP	OCT	NOV	
PHARAOH	5.7	7.7	6.0	6.3	4.7	4.3	6.3	6.0	6.0	7.0	5.8
UF3	7.0	7.3	5.7	6.0	5.0	6.3	6.0	5.3	6.7	5.0	5.8
JR-123	5.0	8.0	7.0	6.3	4.7	4.3	5.7	6.7	5.3	5.7	5.7
KARMA	5.0	9.0	6.0	7.0	7.3	4.7	6.0	5.0	4.7	4.7	5.7
MAN O WAR	6.7	6.7	5.3	6.7	5.0	4.7	6.0	5.7	5.7	6.3	5.7
PPG-PR 339	4.3	8.0	6.0	5.3	5.3	6.7	6.7	5.3	5.3	4.7	5.7
SR 4650	6.3	7.0	6.3	6.3	4.7	5.0	7.0	4.7	6.0	5.3	5.7
DLFPS-236/3544	6.7	8.0	6.3	5.3	4.3	4.7	6.0	5.7	6.7	5.7	5.6
DLFPS-236/3552	2.7	6.7	5.7	5.7	6.7	5.3	6.0	5.0	4.7	5.7	5.6
PPG-PR 385	6.0	6.3	6.0	5.3	5.3	6.3	6.7	7.0	4.0	4.3	5.6
PST-2MAY	4.3	6.0	6.0	6.0	5.3	5.7	6.0	5.7	5.7	4.7	5.6
SEABISCUIT	5.7	6.7	5.7	5.0	4.7	5.0	6.0	6.0	6.3	6.0	5.6
UMPQUA	7.7	6.3	5.7	5.3	5.3	6.0	7.0	5.0	6.3	4.0	5.6
DLFPS-236/3538	3.3	7.7	5.7	7.0	6.3	4.7	6.7	5.3	4.0	4.7	5.5
DLFPS-236/3553	7.0	8.7	6.3	6.7	4.7	5.0	6.3	4.7	5.7	5.0	5.5
PPG-PR 367	7.0	8.3	6.3	5.0	4.3	6.0	6.7	5.3	6.3	3.7	5.5
PST-2BDT	3.7	6.0	6.3	5.0	5.3	6.0	6.0	5.0	5.0	5.0	5.5
PST-2FOXY	4.7	6.3	6.3	4.7	4.3	5.3	5.7	5.3	6.0	5.3	5.4
PST-2GTD	3.7	7.3	6.3	5.7	4.3	6.0	6.0	5.0	5.3	4.3	5.4
DERBY XTREME	2.3	6.0	6.3	5.3	5.0	4.7	5.3	4.7	5.3	5.3	5.3
GRAND SLAM GLD	4.0	4.7	6.0	7.0	4.3	4.3	5.7	5.7	4.7	5.0	5.3
PR-5-16	3.7	7.3	6.3	6.0	5.3	5.0	6.3	5.0	4.3	4.3	5.3
PST-2PDA	2.7	7.7	6.3	5.7	3.7	5.3	6.7	4.7	5.0	4.7	5.3
GRAY HAWK (PST-2FIND)	3.7	5.3	6.0	5.0	4.3	6.0	5.7	5.3	5.0	4.3	5.2
ASP0118GL (A-4G)	2.7	5.0	5.7	4.7	4.7	4.7	6.0	5.0	5.0	5.0	5.1
ASP0117 (A-PR15)	3.7	4.7	5.3	5.0	4.3	5.3	6.0	4.7	4.3	4.7	5.0
ALLSTAR III	2.3	4.3	5.0	4.3	5.3	4.7	5.0	4.7	5.0	5.7	5.0
PST-2EGAD	2.7	7.0	5.7	4.7	5.0	4.3	6.7	5.3	4.7	4.0	5.0
PEPPER II (RAD-PR 103)	2.3	4.7	6.0	4.7	4.3	4.7	5.0	3.7	6.0	6.0	5.0
RAD-PR 112	2.7	5.7	4.3	5.0	5.7	4.3	5.7	4.0	4.7	5.3	4.9
APR2612	4.7	7.3	3.7	5.3	4.7	5.3	5.0	5.0	5.3	4.0	4.8
APR3060	4.0	4.0	3.7	5.3	4.0	5.7	5.7	4.3	5.7	4.0	4.8
MENSA	5.0	2.7	3.3	4.7	5.0	5.3	4.7	5.0	5.7	4.7	4.8
ASP0218 (A-6D)	2.7	4.7	6.0	4.3	3.7	4.3	5.0	4.7	4.7	4.7	4.7
BAR LP 6164	3.7	4.7	3.7	4.7	5.7	5.3	5.0	4.0	4.7	4.3	4.7
AMP-R1	3.0	4.0	5.3	5.0	4.0	4.0	5.0	4.3	5.0	4.0	4.6
BAR LP 6233	6.3	4.0	3.7	4.3	5.3	5.7	5.7	5.0	3.7	3.7	4.6
SAGUARO	3.0	2.3	3.3	4.7	4.7	5.3	5.3	4.7	4.3	4.3	4.6
CS-6	2.3	4.7	4.7	4.7	4.0	4.3	4.3	4.0	4.7	5.7	4.5
GO-142	2.3	5.3	5.0	5.0	4.0	3.7	4.7	4.3	4.3	4.7	4.5
LPB-SD-103	3.0	3.7	3.7	4.7	5.0	4.7	4.7	4.7	4.0	4.3	4.5
LPB-SD-104	3.7	3.3	2.7	4.3	5.3	5.7	4.7	4.3	4.7	4.0	4.5
MRS�-PR16	3.0	4.0	5.3	3.7	3.3	3.7	4.3	5.0	6.0	5.0	4.5
ASP0116EXT	2.0	2.7	4.7	3.7	3.7	4.3	5.0	3.3	5.3	5.3	4.4
BAR LP 6158	3.0	5.0	4.7	4.7	5.0	4.3	5.0	3.3	4.0	4.0	4.4
BAR LP 6159	2.7	3.7	4.3	5.3	4.3	5.0	4.3	3.3	4.3	4.0	4.4
BSP-25	2.0	3.3	4.0	4.0	4.3	3.7	5.0	4.3	4.3	5.3	4.4

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	CROWN RUST	GRAY LEAF SPOT	APR	MAY	JUN	QUALITY RATINGS					MEAN
						JUL	AUG	SEP	OCT	NOV	
EVOLVE	2.3	4.7	5.0	5.0	4.7	4.7	4.7	3.7	4.0	3.3	4.4
LPB-SD-102	3.0	2.7	3.3	4.7	4.7	4.7	4.3	4.3	5.0	4.3	4.4
SNX	2.0	4.3	5.7	4.0	3.7	4.0	4.3	3.7	5.3	4.7	4.4
BAR LP 6117	1.3	3.7	4.0	5.7	5.0	4.3	5.7	3.0	3.3	3.3	4.3
MRS�-PR15	2.3	4.7	4.3	4.7	3.7	4.3	5.0	4.0	4.0	4.3	4.3
BSP-17	3.0	2.7	4.3	4.0	4.0	4.0	4.0	3.0	5.3	4.7	4.2
GO-143	2.0	3.7	3.7	4.0	3.7	3.7	4.3	3.7	5.7	4.7	4.2
JR-888	4.0	2.0	3.7	4.0	4.3	5.0	5.0	4.0	4.3	3.3	4.2
JR-747	2.0	2.7	3.3	4.0	6.0	5.0	3.0	3.0	4.3	3.3	4.0
SAVANT	3.7	1.3	1.7	4.3	4.0	4.3	5.3	4.0	4.3	4.0	4.0
GO-141	1.7	3.3	4.7	3.7	3.7	3.3	4.3	3.7	3.7	4.3	3.9
BAR LP 6165	6.3	2.3	3.0	3.7	6.3	3.7	4.0	4.0	3.0	2.3	3.8
LPB-SD-101	2.7	1.7	2.3	4.7	4.0	4.7	3.7	3.7	3.7	3.3	3.8
BWH	2.3	1.7	2.7	3.7	4.0	3.7	3.3	3.0	5.0	4.3	3.7
LPB-SD-105	3.7	1.3	2.3	3.0	4.7	3.7	3.7	3.3	4.3	4.3	3.7
BRIGHTSTAR SLT	2.7	1.7	3.3	3.0	3.0	3.7	3.7	2.7	4.0	2.7	3.3
BAR LP 6131	3.3	1.7	2.0	3.7	3.0	2.7	4.0	2.7	3.3	4.0	3.2
DLFPS-238/3014	5.0	2.3	2.7	3.7	4.3	4.0	3.3	3.0	3.0	1.7	3.2
BAR LP 6162	4.0	2.3	2.3	3.3	3.0	4.0	2.7	2.0	3.0	3.0	2.9
LINN	3.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	1.8	1.4	1.2	1.4	1.3	1.3	1.3	1.4	1.3	1.3	0.6
C.V. (%)	25.5	15.8	14.4	16.2	16.1	16.1	14.3	17.4	16.1	16.7	8.1

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
NJ2	SANDY LOAM	6.1-6.5	271-450	376-500	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/ 2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS									
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DLFPS-236/3542	7.7	7.3	8.0	8.0	7.0	8.0	8.0	7.3	7.3	6.7	7.5
DLFPS-236/3541	7.3	7.0	8.0	8.0	7.3	7.7	8.0	7.3	7.0	6.0	7.4
DLFPS-236/3544	7.3	7.0	8.0	8.0	7.0	8.0	8.0	7.0	7.0	6.3	7.4
DLFPS-236/3545	7.0	7.0	7.7	7.7	7.3	8.0	7.7	7.3	7.3	6.3	7.4
DLFPS-236/3548	7.7	7.0	8.0	8.0	7.3	8.0	8.0	7.0	7.0	6.0	7.4
LPB-SD-102	7.7	7.0	8.0	8.0	7.0	8.0	8.0	7.0	7.0	6.3	7.4
MAN O WAR	7.0	7.0	8.0	8.0	7.0	8.0	8.0	7.0	7.0	6.3	7.4
PPG-PR 241	7.3	7.0	8.0	8.0	7.7	7.7	7.7	7.0	7.0	6.3	7.4
PPG-PR 339	7.3	7.0	8.0	8.0	7.3	8.0	8.0	7.3	7.0	6.0	7.4
PPG-PR 372	7.0	7.0	8.0	8.0	7.7	7.7	8.0	7.0	7.0	6.0	7.4
PPG-PR 422	7.0	7.0	8.0	8.0	7.7	8.0	7.7	7.0	7.0	6.0	7.4
PPG-PR 424	7.3	7.0	8.0	8.0	7.7	7.7	7.7	7.3	7.0	6.0	7.4
O21	7.0	7.0	8.0	8.0	7.3	7.7	7.7	7.0	7.0	6.3	7.3
O2BS2	7.0	6.7	8.0	8.0	7.0	7.7	7.7	7.0	7.0	6.3	7.3
APR2616	7.0	6.7	8.0	8.0	7.0	7.7	8.0	7.0	7.0	6.0	7.3
CPN	7.0	7.0	7.7	7.7	7.3	8.0	7.7	7.0	6.7	6.3	7.3
DLFPS-236/3543	7.0	7.0	8.0	8.0	7.0	7.7	7.3	7.3	7.3	6.3	7.3
DLFPS-236/3547	7.3	7.0	8.0	8.0	7.0	8.0	8.0	7.0	7.0	6.0	7.3
DLFPS-236/3550	7.3	7.0	8.0	8.0	7.0	7.7	7.7	7.0	7.0	6.0	7.3
DLFPS-236/3552	7.7	7.3	8.0	8.0	7.7	7.3	7.7	7.0	7.0	6.0	7.3
DLFPS-236/3553	7.7	7.0	8.0	8.0	7.0	7.7	7.7	7.0	7.0	6.0	7.3
FP2	7.0	7.0	8.0	8.0	7.3	7.7	8.0	6.7	6.7	6.0	7.3
INTENSE	7.0	6.7	8.0	8.0	7.3	7.7	7.7	7.0	7.0	6.0	7.3
JR-197	7.0	7.0	8.0	8.0	7.7	8.0	7.7	6.7	6.7	5.7	7.3
FURLONG (LTP-FCB)	7.7	8.0	8.0	8.0	7.0	7.3	7.7	6.7	6.7	6.3	7.3
NP-2	7.0	7.0	8.0	8.0	7.3	8.0	7.7	7.0	7.0	6.0	7.3
NP-3	7.0	6.7	8.0	8.0	7.3	8.0	8.0	6.7	6.7	6.0	7.3
OVERDRIVE 5G	7.7	7.0	7.7	7.7	7.3	8.0	8.0	7.0	7.0	6.3	7.3
PHARAOH	7.0	7.0	8.0	8.0	7.3	7.7	8.0	7.0	7.0	6.0	7.3
PPG-PR 343	8.0	7.0	7.7	8.0	7.7	7.3	7.7	7.3	7.0	6.3	7.3
PPG-PR 367	7.0	6.7	8.0	8.0	7.7	7.7	7.7	7.0	7.0	6.3	7.3
PPG-PR 420	7.3	7.0	8.0	8.0	7.7	7.7	7.7	6.7	6.7	6.3	7.3
PR-6-15	7.3	7.0	8.0	8.0	7.0	8.0	7.7	7.0	7.0	6.0	7.3
PST-2A2	7.7	7.0	8.0	8.0	7.3	7.7	7.7	7.0	7.0	6.3	7.3
GRAY HAWK (PST-2FIND)	7.3	7.0	8.0	8.0	7.0	7.7	7.7	7.0	7.0	6.0	7.3
PST-2FOXY	7.3	6.7	8.0	8.0	7.3	7.7	7.7	7.0	7.0	6.0	7.3
RAD-PR 112	7.7	7.0	8.0	8.0	8.0	8.0	7.7	6.7	6.7	6.0	7.3
RRT	7.3	7.0	8.0	8.0	7.7	8.0	8.0	7.0	6.7	5.7	7.3
SEABISCUIT	7.0	6.7	8.0	8.0	7.0	7.7	8.0	7.3	7.0	6.0	7.3
O23	7.0	7.0	8.0	8.0	7.0	7.3	7.7	7.0	7.0	6.0	7.2
O2BS1	7.0	6.3	7.7	7.7	7.7	7.7	7.7	7.0	7.0	6.0	7.2
SHIELD (O2BS4)	7.0	6.7	8.0	8.0	7.0	7.7	7.3	7.0	7.0	6.3	7.2
DERBY XTREME	7.7	7.0	7.7	8.0	7.3	7.7	7.7	7.0	6.7	5.7	7.2
DLFPS-236/3540	7.0	6.3	8.0	8.0	7.0	8.0	7.7	7.0	6.7	6.0	7.2
DLFPS-236/3556	7.0	7.0	8.0	8.0	7.7	7.7	7.7	6.7	6.7	5.7	7.2
JR-123	7.0	7.0	8.0	8.0	7.3	7.7	7.7	7.0	6.7	5.7	7.2
LPB-SD-104	8.0	7.3	8.0	8.0	7.0	7.7	7.7	7.0	6.7	5.7	7.2

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS									
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MENSA	7.3	7.0	7.7	7.7	7.0	8.3	7.7	6.7	6.7	6.0	7.2
PPG-PR 331	7.0	7.0	8.0	8.0	7.0	7.3	7.3	7.0	7.0	6.0	7.2
PPG-PR 360	7.3	7.0	8.0	8.0	7.3	7.7	7.7	7.0	6.7	5.7	7.2
PPG-PR 371	7.0	7.0	8.0	8.0	7.0	7.7	7.7	7.0	6.7	5.7	7.2
PPG-PR 421	7.0	6.7	7.7	7.7	7.3	7.7	7.7	7.0	7.0	6.0	7.2
PPG-PR 423	7.0	6.7	8.0	8.0	7.7	8.0	7.7	6.7	6.7	5.7	7.2
PST-2GTD	7.0	7.0	8.0	8.0	7.0	7.7	7.3	7.0	7.0	6.0	7.2
PST-2MAY	7.0	7.0	8.0	8.0	7.0	7.7	7.7	7.0	6.7	6.0	7.2
UF3	7.0	7.0	7.7	7.7	7.0	8.0	7.7	7.0	7.0	6.0	7.2
UMPQUA	7.0	6.7	7.3	7.7	7.3	7.7	7.7	7.0	7.0	6.3	7.2
XCELERATOR	7.0	7.0	7.7	7.7	7.0	8.0	7.7	7.0	7.0	6.0	7.2
BAR LP 6117	7.3	7.0	8.0	8.0	7.7	7.3	7.7	6.3	6.3	5.7	7.1
DLFPS-236/3538	7.0	7.0	8.0	8.0	7.0	7.3	7.3	7.0	6.7	5.7	7.1
DLFPS-236/3554	7.3	6.7	8.0	8.0	7.0	7.7	7.3	6.7	6.7	6.0	7.1
GRAND SLAM GLD	7.0	6.3	8.0	8.0	7.0	7.3	7.7	7.0	7.0	6.0	7.1
JR-747	7.0	6.7	8.0	8.0	7.0	8.0	7.7	6.7	6.7	5.7	7.1
LPB-SD-101	7.0	6.3	8.0	8.0	7.0	7.7	7.7	7.0	6.7	6.0	7.1
LPB-SD-103	7.0	6.3	8.0	8.0	7.0	8.0	7.7	7.0	6.3	5.3	7.1
LPB-SD-105	7.0	6.7	8.0	8.0	7.0	8.0	8.0	7.0	6.3	5.3	7.1
PL2	7.3	7.0	8.0	8.0	7.3	7.3	7.7	6.7	6.7	5.7	7.1
PPG-PR 370	7.3	7.0	7.7	7.7	7.0	7.7	7.3	6.7	6.7	6.0	7.1
PPG-PR 419	7.0	6.7	8.0	8.0	7.0	7.7	7.0	7.0	7.0	6.0	7.1
PST-2BDT	7.3	7.0	7.3	7.3	7.0	7.7	7.7	7.0	7.0	6.0	7.1
PEPPER II (RAD-PR 103)	7.3	7.0	8.0	8.0	7.0	7.3	7.0	6.7	6.7	6.0	7.1
SAVANT	7.0	6.7	7.7	7.7	7.3	7.7	7.7	6.7	6.7	5.7	7.1
SR 4650	7.0	6.7	7.7	7.7	7.0	7.3	7.3	7.0	7.0	6.0	7.1
ASP0118GL (A-4G)	8.0	7.0	7.7	7.7	7.7	7.3	7.0	6.3	6.3	6.0	7.0
ASP0116EXT	8.0	7.0	7.7	7.7	7.0	7.7	7.0	6.7	6.3	6.0	7.0
BSP-17	8.0	6.7	7.7	7.7	7.7	8.0	7.3	6.0	6.0	5.7	7.0
BSP-25	8.0	7.0	8.0	8.0	7.7	7.3	7.0	6.0	6.0	6.0	7.0
BWH	8.0	7.0	7.7	7.7	7.0	8.0	7.0	6.3	6.3	5.7	7.0
DLFPS-236/3546	7.0	7.0	8.0	8.0	7.0	7.3	7.3	6.3	6.3	5.7	7.0
PPG-PR 329	7.0	6.7	7.0	7.0	7.0	7.7	8.0	7.0	7.0	6.0	7.0
PR-5-16	7.0	7.0	7.7	7.7	7.0	7.3	7.3	7.0	6.7	5.7	7.0
PST-2EGAD	7.0	6.0	7.3	7.7	7.7	7.3	7.3	7.0	7.0	6.0	7.0
GRAY WOLF (PST-2GAL)	7.0	7.0	7.7	7.7	7.0	7.7	7.3	6.7	6.7	5.7	7.0
SIGNET	7.0	7.0	7.3	7.3	7.0	7.7	7.3	7.0	6.7	5.7	7.0
SNX	8.0	7.0	7.3	7.3	7.0	8.0	7.3	6.3	6.3	6.0	7.0
ASP0218 (A-6D)	8.0	7.0	7.3	7.3	7.3	7.0	7.0	6.3	6.3	6.0	6.9
ASP0117 (A-PR15)	7.3	7.0	7.3	7.3	7.3	7.7	7.0	6.3	6.3	6.0	6.9
GO-143	7.7	7.0	7.3	7.3	7.3	7.3	7.3	6.3	6.3	5.7	6.9
KARMA	7.0	6.7	7.7	7.7	7.0	7.3	7.3	6.3	6.3	5.3	6.9
PPG-PR 385	7.0	6.7	7.3	7.3	7.0	7.7	7.3	6.7	6.3	5.3	6.9
SILVER SPORT (PST-2CRP)	7.3	7.0	7.3	7.7	7.7	7.0	7.0	6.3	6.3	5.7	6.9
PST-2PDA	7.0	6.0	7.0	7.0	7.0	7.3	7.3	7.0	7.0	6.0	6.9
SAGUARO	7.0	6.7	7.3	7.7	7.3	7.3	7.7	6.7	6.3	5.3	6.9
ALLSTAR III	7.0	6.7	7.3	7.3	7.0	7.7	7.0	6.3	6.3	5.3	6.8

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS									
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BAR LP 6164	7.0	6.3	7.7	7.7	7.3	7.0	7.0	6.3	6.3	5.7	6.8
CS-6	7.3	6.7	7.0	7.3	7.3	7.3	7.0	6.3	6.3	6.0	6.8
EVOLVE	7.0	6.3	6.7	7.3	7.3	7.0	7.3	6.7	6.7	5.7	6.8
GO-142	7.3	6.3	7.3	7.3	7.0	7.7	7.0	6.3	6.3	5.7	6.8
MRSL-PR15	7.7	6.7	7.3	7.3	7.0	7.3	7.3	6.3	6.3	5.7	6.8
APR2612	7.0	6.3	7.3	7.3	7.0	7.0	7.0	6.3	6.3	5.7	6.7
DLFPS-238/3014	7.0	6.0	7.3	7.3	7.0	7.3	7.0	6.3	6.3	5.7	6.7
GO-141	7.0	7.0	7.3	7.3	7.0	7.0	7.0	6.3	6.3	5.3	6.7
JR-888	7.0	6.0	7.3	7.3	7.0	7.7	7.3	6.7	6.0	5.0	6.7
MRSL-PR16	8.0	7.0	7.0	7.0	7.0	7.3	7.0	6.0	6.0	6.0	6.7
AMP-R1	7.7	7.0	7.3	7.3	7.0	7.0	7.0	5.7	5.7	5.3	6.6
APR3060	7.0	6.7	7.3	7.3	7.0	7.0	7.0	6.0	6.0	5.3	6.6
BAR LP 6165	7.0	5.7	7.0	7.0	7.0	7.0	7.0	6.7	6.3	5.3	6.6
BAR LP 6158	7.0	6.3	7.0	7.0	7.0	7.0	7.0	6.3	6.0	5.0	6.5
BAR LP 6233	7.0	6.0	7.0	7.0	7.0	7.3	7.0	6.3	6.0	5.0	6.5
BAR LP 6131	7.0	6.0	7.0	7.0	7.0	7.0	6.7	6.3	6.0	5.0	6.4
BAR LP 6159	7.0	6.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0	5.0	6.4
BAR LP 6162	7.0	6.3	7.0	7.0	7.0	7.0	6.0	6.0	6.0	5.3	6.4
BRIGHTSTAR SLT	7.0	6.3	7.0	7.0	6.7	7.0	6.3	6.0	6.0	5.0	6.4
LINN	6.0	5.0	6.3	6.3	6.0	6.0	6.0	6.0	6.0	5.0	5.9
LSD VALUE	0.6	0.6	0.6	0.6	0.8	1.0	0.8	0.8	0.9	1.1	0.3
C.V. (%)	4.6	5.5	4.5	4.5	5.2	6.1	5.9	6.4	6.5	8.4	2.9

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 A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
OR1	SILTY CLAY LOAM	5.6-6.0	61-150	241-375	4.1-5.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY

TABLE 16. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC STUDY), OR 1/2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS			
	OCT	NOV	DEC	MEAN
DLFPS-236/3541	6.7	6.7	6.0	6.4
DLFPS-236/3552	6.3	6.3	6.0	6.2
LPB-SD-102	6.3	6.3	6.0	6.2
PPG-PR 343	6.3	6.3	6.0	6.2
DLFPS-236/3542	6.3	6.3	5.7	6.1
DLFPS-236/3550	6.3	6.3	5.7	6.1
FP2	6.3	6.3	5.7	6.1
MAN O WAR	6.3	6.3	5.7	6.1
PPG-PR 422	6.3	6.3	5.7	6.1
PPG-PR 424	6.3	6.3	5.7	6.1
PST-2EGAD	6.0	6.3	6.0	6.1
DLFPS-236/3540	6.3	6.3	5.3	6.0
DLFPS-236/3544	6.3	6.3	5.3	6.0
PST-2A2	6.0	6.0	6.0	6.0
SEABISCUIT	6.0	6.0	6.0	6.0
O2BS1	6.0	6.0	5.7	5.9
SHIELD (O2BS4)	6.0	6.0	5.7	5.9
DERBY XTREME	6.0	6.0	5.7	5.9
DLFPS-236/3553	6.0	6.0	5.7	5.9
LPB-SD-101	5.7	6.0	6.0	5.9
FURLONG (LTP-FCB)	6.0	6.0	5.7	5.9
NP-2	6.0	6.0	5.7	5.9
OVERDRIVE 5G	6.0	6.0	5.7	5.9
PPG-PR 331	6.0	6.0	5.7	5.9
PPG-PR 372	6.0	6.0	5.7	5.9
PR-5-16	6.0	6.0	5.7	5.9
PST-2BDT	6.0	6.0	5.7	5.9
PST-2FOXY	6.0	6.0	5.7	5.9
UMPQUA	6.0	6.0	5.7	5.9
O21	6.0	6.0	5.3	5.8
O2BS2	5.7	6.0	5.7	5.8
BAR LP 6158	6.0	6.0	5.3	5.8
BAR LP 6165	6.0	6.0	5.3	5.8
DLFPS-236/3543	6.0	6.0	5.3	5.8
DLFPS-236/3548	6.0	6.0	5.3	5.8
INTENSE	6.0	6.0	5.3	5.8
LPB-SD-104	6.0	6.0	5.3	5.8
MENSA	6.0	6.0	5.3	5.8
NP-3	6.0	6.0	5.3	5.8
PHARAOH	5.7	6.0	5.7	5.8
PL2	6.0	6.0	5.3	5.8
PPG-PR 241	6.0	6.0	5.3	5.8
PPG-PR 329	6.0	6.0	5.3	5.8
PPG-PR 421	5.7	6.0	5.7	5.8
PR-6-15	6.0	6.0	5.3	5.8
PST-2GTD	6.0	6.0	5.3	5.8
PST-2MAY	6.0	6.0	5.3	5.8

TABLE 16. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC STUDY), OR 1/
 2017 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS			
	OCT	NOV	DEC	MEAN
PST-2PDA	6.0	6.0	5.3	5.8
RRT	6.0	6.0	5.3	5.8
BAR LP 6117	6.0	6.0	5.0	5.7
CPN	6.0	6.0	5.0	5.7
DLFPS-236/3538	6.0	6.0	5.0	5.7
DLFPS-236/3554	5.7	5.7	5.7	5.7
GRAND SLAM GLD	6.0	6.0	5.0	5.7
LPB-SD-105	6.0	6.0	5.0	5.7
PPG-PR 360	6.0	6.0	5.0	5.7
PPG-PR 367	5.7	5.7	5.7	5.7
PPG-PR 420	5.7	5.7	5.7	5.7
GRAY HAWK (PST-2FIND)	6.0	6.0	5.0	5.7
SAGUARO	6.0	6.0	5.0	5.7
SAVANT	6.0	6.0	5.0	5.7
UF3	6.0	6.0	5.0	5.7
BAR LP 6164	5.7	5.7	5.3	5.6
DLFPS-236/3545	5.7	5.7	5.3	5.6
DLFPS-236/3547	5.7	5.7	5.3	5.6
DLFPS-236/3556	5.7	5.7	5.3	5.6
EVOLVE	5.7	5.7	5.3	5.6
JR-123	5.7	5.7	5.3	5.6
PPG-PR 339	5.3	5.7	5.7	5.6
PPG-PR 371	5.7	5.7	5.3	5.6
GRAY WOLF (PST-2GAL)	5.7	5.7	5.3	5.6
ASPO117 (A-PR15)	5.3	5.7	5.3	5.4
BAR LP 6131	5.3	5.7	5.3	5.4
GO-141	5.7	5.7	5.0	5.4
JR-747	5.7	5.7	5.0	5.4
LPB-SD-103	6.0	5.7	4.7	5.4
MRSL-PR15	5.3	5.7	5.3	5.4
PPG-PR 370	5.7	5.7	5.0	5.4
PPG-PR 419	5.7	5.7	5.0	5.4
RAD-PR 112	5.3	5.7	5.3	5.4
ASPO116EXT	5.3	5.3	5.3	5.3
GO-142	5.7	5.7	4.7	5.3
KARMA	5.3	5.3	5.3	5.3
XCELERATOR	5.7	5.7	4.7	5.3
023	5.3	5.3	5.0	5.2
ASPO118GL (A-4G)	5.3	5.3	5.0	5.2
ASPO218 (A-6D)	5.3	5.3	5.0	5.2
ALLSTAR III	5.3	5.3	5.0	5.2
APR2616	5.3	5.3	5.0	5.2
BAR LP 6159	5.3	5.3	5.0	5.2
BSP-25	5.0	5.3	5.3	5.2
CS-6	5.3	5.3	5.0	5.2
DLFPS-236/3546	5.3	5.3	5.0	5.2
GO-143	5.3	5.3	5.0	5.2

TABLE 16. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS (TRAFFIC STUDY), OR 1/
 2017 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS			
	OCT	NOV	DEC	MEAN
JR-197	5.0	5.3	5.3	5.2
SILVER SPORT (PST-2CRP)	5.3	5.3	5.0	5.2
SIGNET	5.3	5.3	5.0	5.2
PPG-PR 385	5.3	5.3	4.7	5.1
PPG-PR 423	5.3	5.3	4.7	5.1
PEPPER II (RAD-PR 103)	5.3	5.3	4.7	5.1
BWH	5.0	5.0	5.0	5.0
DLFPS-238/3014	5.0	5.0	5.0	5.0
JR-888	5.0	5.0	5.0	5.0
MRSL-PR16	5.0	5.0	5.0	5.0
SNX	5.0	5.0	5.0	5.0
SR 4650	5.0	5.0	5.0	5.0
APR2612	5.0	5.0	4.7	4.9
APR3060	5.0	5.0	4.7	4.9
BAR LP 6162	5.0	5.0	4.7	4.9
BAR LP 6233	5.0	5.0	4.7	4.9
BRIGHTSTAR SLT	5.0	5.0	4.7	4.9
BSP-17	4.7	5.0	5.0	4.9
AMP-R1	4.7	4.7	4.7	4.7
LINN	4.7	4.7	4.3	4.6
LSD VALUE	1.0	0.9	1.5	0.9
C.V. (%)	8.8	8.5	10.4	8.1

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

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

TABLE A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
OR2	SILTY CLAY LOAM	5.6-6.0	61-150	241-375	4.1-5.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY

TABLE 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT		QUALITY RATINGS							MEAN
				SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
BSP-17	7.3	7.0	7.0	43.3	66.7	5.0	7.3	7.3	5.7	7.3	7.0	5.0	6.4
PST-2MAY	6.3	7.3	5.3	36.7	66.7	4.7	7.3	7.3	6.0	6.7	7.7	5.3	6.4
PEPPER II (RAD-PR 103)	8.3	7.0	6.7	33.3	60.0	4.7	7.0	7.7	6.0	7.3	7.7	4.7	6.4
DLFPS-236/3542	7.0	7.3	5.0	36.7	66.7	4.3	7.3	6.7	5.7	7.3	7.7	5.0	6.3
DLFPS-236/3554	7.7	7.3	6.0	33.3	60.0	4.7	7.7	7.0	5.3	7.3	7.3	4.3	6.2
NP-2	7.3	8.0	5.7	46.7	73.3	5.7	6.7	6.7	5.3	6.3	7.3	5.0	6.1
PPG-PR 360	7.7	7.3	5.0	30.0	63.3	5.0	7.3	7.0	6.3	6.3	6.7	4.3	6.1
PPG-PR 370	6.7	7.3	6.0	40.0	70.0	4.7	7.7	6.7	5.0	7.0	6.7	5.0	6.1
PPG-PR 419	6.3	7.3	6.0	43.3	63.3	5.0	6.7	6.7	5.7	7.0	7.0	5.0	6.1
DLFPS-236/3541	7.7	7.3	6.3	36.7	70.0	4.3	6.3	6.7	5.3	7.0	6.7	5.3	6.0
JR-747	6.0	6.7	1.3	43.3	70.0	4.7	8.0	7.3	6.0	6.0	6.3	3.7	6.0
LPB-SD-103	7.3	8.3	5.7	33.3	70.0	5.0	7.0	6.3	5.0	6.7	6.7	5.0	6.0
NP-3	6.7	7.0	5.7	40.0	66.7	5.0	6.3	6.0	6.0	6.7	7.0	4.7	6.0
PPG-PR 331	6.7	6.7	6.0	33.3	56.7	4.0	6.3	6.7	6.0	7.0	7.0	5.3	6.0
PPG-PR 371	6.0	7.3	5.3	43.3	70.0	5.3	6.7	7.0	5.3	6.0	7.0	4.7	6.0
RAD-PR 112	8.7	7.7	6.0	30.0	63.3	4.7	7.0	7.3	5.0	7.3	7.0	4.0	6.0
SAVANT	6.0	7.7	4.3	36.7	73.3	4.7	6.7	6.3	5.3	7.7	6.7	5.0	6.0
XCELERATOR	7.0	7.7	5.3	36.7	66.7	5.0	7.3	6.7	4.7	6.7	6.7	5.0	6.0
O21	6.3	7.3	5.0	33.3	63.3	5.0	6.7	5.3	6.0	6.3	6.7	5.0	5.9
BWH	7.7	7.3	5.0	43.3	66.7	5.3	8.0	6.7	4.7	6.0	6.0	4.3	5.9
DLFPS-236/3543	8.0	7.0	6.7	40.0	63.3	5.0	6.3	6.0	5.3	7.0	7.3	4.3	5.9
DLFPS-236/3550	7.0	7.3	6.0	36.7	73.3	5.0	7.3	6.3	5.0	5.7	7.3	4.3	5.9
PPG-PR 343	7.3	7.0	5.3	20.0	53.3	4.3	7.7	7.0	5.3	6.0	6.3	4.3	5.9
GRAY WOLF (PST-2GAL)	7.3	7.7	4.3	30.0	63.3	5.0	6.3	6.0	5.7	7.0	6.7	4.7	5.9
O2BS2	6.3	7.7	6.3	33.3	63.3	5.0	6.7	5.3	5.7	6.7	6.3	5.0	5.8
ASP0218 (A-6D)	6.3	7.3	4.0	33.3	60.0	4.7	6.3	6.3	5.7	6.7	6.3	4.7	5.8
PPG-PR 241	6.3	7.3	5.0	36.7	60.0	4.3	7.0	7.0	5.3	6.3	6.0	4.7	5.8
PPG-PR 423	7.7	7.3	5.0	36.7	70.0	4.7	6.7	7.0	4.7	6.0	7.0	4.3	5.8
PPG-PR 424	6.3	7.3	7.7	40.0	63.3	5.3	6.7	6.7	4.3	6.0	6.7	5.0	5.8
SILVER SPORT (PST-2CRP)	7.0	7.3	6.0	30.0	50.0	4.0	6.0	7.0	5.3	6.7	6.7	4.7	5.8
RRT	6.7	7.7	4.0	23.3	56.7	4.7	6.0	6.3	5.0	6.7	7.0	5.0	5.8
SNX	7.0	7.7	5.7	40.0	70.0	5.7	7.3	6.7	4.7	5.3	6.3	4.3	5.8
BAR LP 6159	5.0	7.7	6.0	40.0	70.0	4.7	7.3	6.7	5.3	6.0	6.0	4.0	5.7
LPB-SD-102	7.3	7.3	4.7	36.7	63.3	4.7	6.0	6.7	5.0	6.3	6.7	4.7	5.7
FURLONG (LTP-FCB)	7.0	7.0	6.7	30.0	56.7	3.7	5.7	6.3	5.7	6.7	7.0	4.7	5.7
PPG-PR 329	6.7	7.3	5.3	36.7	60.0	4.3	6.7	5.7	5.3	6.3	6.3	5.0	5.7
PPG-PR 367	6.3	7.7	6.7	33.3	66.7	4.3	6.7	6.0	5.0	6.0	6.3	5.3	5.7
PPG-PR 421	7.0	7.0	6.0	30.0	56.7	3.7	6.0	6.3	5.3	7.0	7.0	4.3	5.7
SAGUARO	7.3	7.0	5.0	30.0	56.7	4.0	6.3	6.7	5.3	6.3	6.3	4.7	5.7
ASP0118GL (A-4G)	6.7	7.7	6.3	40.0	70.0	5.3	6.7	5.7	5.3	5.3	6.0	4.7	5.6
ASP0116EXT	7.7	7.3	4.0	43.3	66.7	4.3	5.7	6.7	5.3	6.3	5.7	5.0	5.6
CS-6	5.7	7.3	5.7	36.7	60.0	4.3	7.0	6.3	5.7	5.3	5.3	5.0	5.6
DLFPS-236/3540	7.0	7.0	6.0	40.0	60.0	4.7	7.3	6.0	4.7	6.0	6.7	4.0	5.6
DLFPS-236/3552	6.3	7.0	3.7	33.3	53.3	4.0	6.3	6.3	5.7	6.7	6.7	3.7	5.6
FP2	7.0	7.3	4.3	40.0	66.7	4.7	7.0	6.0	4.7	6.0	6.3	4.7	5.6
LPB-SD-105	7.0	7.0	2.3	23.3	56.7	3.7	6.3	6.7	5.7	5.7	6.7	4.7	5.6
MRS�-PR16	7.3	7.0	2.7	30.0	63.3	3.3	6.7	6.7	5.7	6.3	5.7	4.7	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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT		QUALITY RATINGS							MEAN
				SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PST-2EGAD	6.7	8.0	5.7	36.7	66.7	5.0	6.7	5.7	4.7	5.7	6.7	4.7	5.6
SR 4650	6.0	7.0	6.0	53.3	66.7	4.7	6.7	6.0	4.7	5.3	7.0	4.7	5.6
APR2616	6.0	7.0	4.7	40.0	66.7	4.0	7.0	6.3	5.0	6.0	6.3	4.0	5.5
BAR LP 6117	5.7	7.0	4.0	40.0	66.7	4.3	6.7	5.7	5.0	7.0	6.0	4.0	5.5
DLFPS-236/3545	7.3	7.3	6.0	33.3	63.3	4.0	5.7	6.0	5.0	6.0	7.0	4.7	5.5
JR-123	5.3	8.0	5.7	33.3	70.0	5.0	7.0	6.0	4.7	5.0	6.0	4.7	5.5
PPG-PR 372	5.7	6.3	6.0	30.0	56.7	3.7	6.3	7.0	5.3	5.3	6.3	4.7	5.5
PPG-PR 385	5.3	7.7	6.0	36.7	66.7	5.3	6.0	5.3	5.3	5.7	6.3	4.3	5.5
GRAY HAWK (PST-2FIND)	7.0	7.3	5.0	36.7	63.3	4.3	6.3	6.3	5.0	5.7	6.3	4.3	5.5
SHIELD (O2BS4)	5.3	7.3	5.7	43.3	60.0	4.3	6.7	6.3	4.7	6.3	5.3	4.0	5.4
AMP-R1	6.7	7.0	4.3	26.7	60.0	4.0	6.0	6.0	4.7	6.0	6.3	4.7	5.4
BSP-25	7.7	7.3	6.3	36.7	56.7	3.7	5.7	6.7	5.7	5.7	6.3	4.3	5.4
CPN	6.3	7.3	5.3	46.7	66.7	5.3	6.0	6.0	4.3	4.7	6.7	4.7	5.4
DERBY XTREME	7.3	7.3	3.7	33.3	60.0	4.3	6.0	6.0	4.0	5.3	7.0	5.3	5.4
DLFPS-236/3538	6.3	7.3	6.0	33.3	60.0	3.7	5.0	5.7	5.3	7.0	6.0	5.0	5.4
DLFPS-236/3547	6.0	7.0	5.3	33.3	56.7	4.3	6.3	6.0	5.0	5.3	6.3	4.7	5.4
DLFPS-236/3548	6.3	7.0	5.3	33.3	60.0	3.7	6.3	6.7	5.3	5.7	6.0	4.0	5.4
GO-141	6.7	7.3	5.3	23.3	56.7	3.7	7.0	6.0	5.3	5.3	6.0	4.3	5.4
LPB-SD-101	6.0	7.3	4.3	36.7	66.7	4.7	6.3	6.0	4.3	5.3	6.7	4.7	5.4
OVERDRIVE 5G	5.3	7.7	5.7	36.7	76.7	6.0	6.3	6.0	4.0	5.3	5.7	4.3	5.4
PHARAOH	6.0	8.0	6.0	50.0	73.3	6.0	6.3	6.0	3.7	5.0	7.0	3.7	5.4
PPG-PR 339	7.3	6.3	5.3	36.7	66.7	4.3	5.7	6.3	4.7	5.3	6.3	5.0	5.4
PPG-PR 422	7.0	7.0	4.3	36.7	56.7	3.7	5.3	6.0	5.0	6.0	7.0	5.0	5.4
PST-2GTD	7.0	6.7	6.0	36.7	53.3	4.3	6.0	6.7	5.0	5.3	6.0	4.3	5.4
SIGNET	5.7	7.7	4.3	46.7	80.0	4.7	6.7	6.3	5.0	5.3	5.7	4.3	5.4
UF3	5.3	7.7	6.0	46.7	70.0	5.3	5.7	5.3	5.0	5.3	6.3	4.7	5.4
UMPQUA	5.7	8.0	5.7	36.7	63.3	5.7	5.3	5.3	4.7	5.7	6.3	4.7	5.4
APR2612	6.0	6.7	5.3	30.0	56.7	3.7	5.3	5.7	5.3	6.3	6.3	4.7	5.3
APR3060	5.0	7.0	5.7	23.3	50.0	3.3	6.0	6.0	6.0	6.0	5.3	4.3	5.3
BAR LP 6131	4.7	7.0	4.7	33.3	60.0	4.7	6.3	5.3	4.3	6.7	5.7	4.3	5.3
DLFPS-236/3544	6.7	7.0	6.0	26.7	50.0	3.7	5.3	5.3	5.7	6.3	6.3	4.7	5.3
DLFPS-236/3546	7.0	7.0	4.3	23.3	43.3	4.0	7.0	7.0	4.3	5.0	5.7	4.0	5.3
DLFPS-236/3553	5.3	7.7	6.0	33.3	60.0	4.3	6.7	6.0	4.7	5.7	6.0	4.0	5.3
INTENSE	6.3	7.3	5.3	36.7	63.3	5.0	5.3	5.3	4.7	5.3	7.0	4.3	5.3
MENSA	6.0	7.0	4.0	30.0	60.0	3.7	6.7	6.7	4.3	6.0	5.7	4.3	5.3
PR-5-16	6.5	7.3	4.7	30.0	60.0	3.7	5.3	6.0	5.3	6.3	6.0	4.7	5.3
PR-6-15	6.3	7.0	5.7	43.3	56.7	3.7	7.0	5.7	4.0	5.3	6.3	5.0	5.3
O23	6.7	6.3	3.0	40.0	73.3	3.7	4.7	5.3	5.0	6.0	7.0	5.0	5.2
O2BS1	6.7	6.7	7.3	30.0	53.3	4.3	5.3	5.7	4.3	5.3	7.0	4.3	5.2
GO-143	6.3	7.0	5.7	43.3	56.7	3.7	6.0	5.3	4.7	6.0	6.0	4.7	5.2
JR-888	4.7	7.0	3.3	36.7	60.0	4.3	6.7	6.3	4.7	5.3	5.3	3.7	5.2
LPB-SD-104	6.3	6.7	3.0	30.0	56.7	3.7	5.7	6.0	4.7	6.0	6.0	4.3	5.2
BAR LP 6164	6.0	7.0	4.7	33.3	56.7	3.7	5.7	5.7	4.7	5.7	6.0	4.7	5.1
GRAND SLAM GLD	5.3	7.3	5.3	33.3	70.0	4.3	6.0	5.3	4.7	6.0	5.7	4.0	5.1
PL2	7.0	7.7	5.0	26.7	63.3	4.7	5.7	5.7	4.0	5.3	6.0	4.3	5.1
PPG-PR 420	6.3	7.0	4.7	33.3	60.0	3.7	6.0	5.7	4.7	5.7	5.7	4.3	5.1
ALLSTAR III	5.7	7.0	5.0	33.3	66.7	4.3	5.3	5.0	4.3	5.3	6.0	4.7	5.0

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT		QUALITY RATINGS							
				SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-236/3556	5.7	6.7	4.3	40.0	66.7	4.3	5.0	6.3	4.7	4.7	5.7	4.3	5.0
JR-197	6.3	7.3	5.7	43.3	60.0	3.7	5.7	5.3	4.7	5.3	5.7	4.3	5.0
MRS�-PR15	4.3	7.0	6.0	33.3	53.3	4.3	7.0	6.3	4.7	4.7	5.3	3.0	5.0
PST-2FOXY	6.3	7.0	4.7	20.0	43.3	3.7	5.7	5.7	4.3	6.0	5.7	4.3	5.0
BAR LP 6158	5.0	7.7	4.3	40.0	70.0	4.7	6.3	5.7	4.0	5.3	4.7	3.7	4.9
PST-2A2	6.3	7.0	5.7	33.3	60.0	4.0	6.3	5.7	4.3	4.7	5.3	4.0	4.9
PST-2BDT	7.0	6.7	4.3	36.7	56.7	3.7	6.0	5.7	4.0	4.7	5.7	4.7	4.9
PST-2PDA	5.3	7.3	3.7	33.3	63.3	4.7	4.3	5.0	5.0	5.7	5.7	4.0	4.9
SEABISCUIT	5.3	8.0	4.3	30.0	56.7	4.3	5.0	5.7	4.0	5.3	5.0	4.7	4.9
EVOLVE	4.7	7.3	6.0	46.7	63.3	5.3	6.0	5.0	4.3	4.3	5.3	3.0	4.8
BAR LP 6233	3.3	7.7	3.3	40.0	73.3	5.7	5.0	4.3	4.7	4.3	4.7	4.0	4.7
BRIGHTSTAR SLT	4.7	7.3	4.3	36.7	66.7	5.3	5.7	5.7	3.7	3.3	5.3	3.7	4.7
DLFPS-238/3014	3.7	7.7	7.3	26.7	50.0	4.3	5.7	5.7	4.3	3.7	5.0	4.0	4.7
KARMA	5.3	7.0	5.3	26.7	50.0	4.0	5.3	5.3	4.3	4.7	5.7	3.7	4.7
ASP0117 (A-PR15)	5.7	7.3	4.7	30.0	60.0	4.0	6.0	5.7	4.0	3.7	5.0	4.0	4.6
GO-142	6.3	6.7	6.7	33.3	56.7	3.7	6.7	5.0	3.7	3.7	5.7	3.7	4.6
MAN O WAR	5.3	7.3	5.0	30.0	56.7	4.7	5.7	5.0	4.0	4.3	5.0	3.7	4.6
BAR LP 6165	3.0	7.3	6.3	30.0	63.3	4.3	4.7	4.7	5.0	4.0	4.3	4.0	4.4
BAR LP 6162	3.3	7.3	7.7	30.0	60.0	4.7	5.0	5.0	4.3	3.7	4.3	3.3	4.3
LINN	1.0	8.0	3.0	26.7	66.7	6.3	1.7	2.7	2.3	2.7	2.3	2.3	2.9
LSD VALUE	1.4	1.5	2.7	23.5	21.2	1.9	2.4	1.4	1.6	1.7	1.4	1.8	0.9
C.V. (%)	14.3	7.6	25.8	25.6	14.6	18.8	17.8	12.6	16.1	16.7	12.8	16.2	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 A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
UT1	SILT LOAM AND SILT	7.1-7.5	0-60	151-240	-	FULL SUN	2.6-3.0	TO PREVENT STRESS

TABLE 18.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN (DROUGHT), UT 1/
2017 DATA

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

NAME	SPRING	PINK	PERCENT ESTABLISHMENT		QUALITY RATINGS							MEAN
	GREENUP	SNOW MOLD	SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-236/3554	8.0	6.3	40.0	86.7	5.0	6.7	7.0	4.3	5.7	6.0	4.0	5.5
DLFPS-236/3542	7.3	6.3	40.0	86.7	5.3	7.0	7.3	3.3	5.0	5.7	4.3	5.4
SILVER SPORT (PST-2CRP)	7.7	7.3	36.7	83.3	4.7	6.7	6.3	3.0	6.3	6.0	5.0	5.4
BAR LP 6164	8.0	6.0	43.3	90.0	6.0	6.7	6.3	3.3	4.7	5.7	4.7	5.3
DLFPS-236/3540	8.0	6.3	36.7	86.7	5.3	6.7	6.7	3.3	5.0	5.7	4.0	5.2
DLFPS-236/3544	7.7	6.0	36.7	80.0	5.0	5.7	6.3	4.0	5.3	5.3	5.0	5.2
SAVANT	7.7	5.7	50.0	89.7	5.7	6.0	6.7	4.3	4.7	5.3	4.0	5.2
DLFPS-236/3547	8.0	6.3	40.0	90.0	5.0	5.7	6.3	4.0	5.0	5.3	4.3	5.1
LPB-SD-104	7.7	5.7	43.3	86.7	4.3	6.3	6.7	4.7	5.0	5.7	3.0	5.1
MENSA	7.7	6.0	43.3	93.0	5.0	7.0	7.0	3.7	4.3	5.0	4.0	5.1
PPG-PR 241	7.7	5.3	40.0	83.0	4.7	5.7	6.3	5.0	5.0	5.0	4.3	5.1
PPG-PR 370	8.3	6.0	46.7	93.0	5.7	6.3	6.0	3.3	5.0	5.3	4.0	5.1
PPG-PR 421	8.0	6.7	46.7	92.7	4.7	6.7	6.7	3.3	4.3	5.7	4.3	5.1
PPG-PR 423	7.7	5.7	43.3	86.7	5.3	7.0	6.7	4.0	4.7	4.7	3.7	5.1
APR3060	7.0	6.7	36.7	79.7	4.7	7.0	5.7	3.7	5.0	4.7	4.3	5.0
BSP-25	8.0	6.3	43.3	93.0	5.0	6.3	7.3	4.0	4.0	4.7	3.3	5.0
DLFPS-236/3538	8.0	6.7	33.3	83.3	4.7	6.3	6.0	3.3	4.3	5.7	4.3	5.0
DLFPS-236/3556	7.7	6.3	40.0	86.3	5.3	5.3	6.0	3.7	5.0	5.3	4.3	5.0
INTENSE	7.7	6.0	40.0	86.7	5.7	5.0	7.0	3.7	4.7	5.0	4.0	5.0
JR-197	7.7	6.0	50.0	83.3	4.3	6.0	6.7	4.3	4.7	5.3	3.7	5.0
LPB-SD-102	7.3	5.0	43.3	86.7	4.7	6.3	7.3	4.3	4.3	4.7	3.3	5.0
NP-2	7.3	5.3	40.0	86.3	5.0	5.7	7.0	4.0	4.3	5.0	4.3	5.0
PPG-PR 420	7.7	5.3	46.7	93.0	5.3	6.3	7.0	3.3	4.0	4.7	4.0	5.0
GRAY WOLF (PST-2GAL)	8.0	5.7	36.7	86.3	5.0	6.0	5.0	4.3	5.0	5.7	4.3	5.0
PST-2MAY	8.0	6.3	36.7	89.7	4.7	5.7	7.3	3.0	4.7	5.7	4.3	5.0
SNX	7.3	7.0	36.7	76.7	4.3	6.0	6.0	3.3	4.3	6.3	4.3	5.0
ASP0117 (A-PR15)	7.7	6.7	46.7	89.7	5.0	5.3	6.3	4.0	5.0	4.7	4.0	4.9
BSP-17	7.7	6.3	40.0	90.0	5.0	6.3	6.3	3.0	4.3	5.0	4.0	4.9
CS-6	7.0	6.0	40.0	83.0	4.3	5.7	6.7	4.0	4.3	5.0	4.3	4.9
DLFPS-236/3543	7.7	7.0	33.3	86.7	5.0	5.0	6.7	3.7	4.7	5.0	4.3	4.9
JR-747	7.3	4.7	43.3	90.0	5.0	7.0	7.0	3.7	4.0	4.0	3.3	4.9
NP-3	8.0	5.7	43.3	92.7	5.0	5.3	6.0	3.3	4.7	5.0	4.7	4.9
PPG-PR 331	8.0	5.7	36.7	93.0	5.3	5.0	5.7	3.7	4.3	5.7	4.3	4.9
PPG-PR 360	8.0	6.0	43.3	90.0	5.3	6.0	7.0	3.3	3.7	4.7	4.0	4.9
GRAY HAWK (PST-2FIND)	7.7	6.7	36.7	79.7	4.3	5.3	6.3	3.7	4.7	5.0	4.7	4.9
RAD-PR 112	7.7	6.7	33.3	86.3	5.0	6.3	6.3	3.3	4.3	4.3	4.3	4.9
SAGUARO	7.7	6.0	36.7	86.7	5.0	7.0	6.0	3.3	3.7	4.7	4.3	4.9
LPB-SD-103	8.0	5.7	36.7	89.7	5.0	6.7	6.3	3.3	4.0	4.3	3.7	4.8
LPB-SD-105	7.7	7.0	30.0	66.7	4.3	5.7	6.0	3.3	4.7	5.3	4.3	4.8
PHARAOH	7.3	5.7	40.0	83.0	4.3	5.0	6.0	3.3	4.7	5.3	5.0	4.8
PPG-PR 339	7.7	5.3	43.3	86.3	5.0	6.0	5.7	3.7	4.3	5.0	4.0	4.8
PPG-PR 343	7.3	6.3	36.7	76.7	5.0	6.3	6.0	3.7	4.3	4.7	3.7	4.8
PST-2A2	7.7	7.0	36.7	73.3	4.3	6.3	5.3	3.7	4.0	5.0	5.0	4.8
SIGNET	7.3	6.3	40.0	83.0	4.7	6.3	6.3	3.0	4.0	4.3	4.7	4.8
O21	7.7	6.0	43.3	83.3	4.3	6.7	6.7	3.0	3.7	4.7	4.0	4.7
O2BS2	7.7	6.7	40.0	83.3	4.7	5.3	6.3	3.3	4.3	4.3	4.3	4.7
APR2612	7.3	6.3	40.0	76.7	4.3	6.3	6.0	3.7	4.0	4.7	3.7	4.7

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING	PINK	PERCENT ESTABLISHMENT		QUALITY RATINGS							MEAN
	GREENUP	SNOW MOLD	SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
APR2616	8.0	6.0	43.3	90.0	5.7	6.3	5.7	3.0	3.7	4.3	4.0	4.7
BAR LP 6117	7.7	5.7	36.7	86.7	5.3	6.0	6.3	3.3	4.0	4.3	3.7	4.7
DLFPS-236/3541	8.0	6.0	36.7	86.7	5.7	6.0	6.0	2.7	3.3	4.7	4.3	4.7
LPB-SD-101	7.0	5.7	36.7	86.3	4.7	5.7	6.0	3.0	4.3	5.0	4.0	4.7
MRSL-PR15	8.0	6.3	46.7	93.0	5.3	6.7	6.3	2.7	3.3	4.7	4.0	4.7
MRSL-PR16	8.0	5.3	40.0	86.7	5.3	6.0	6.7	3.0	3.3	4.3	4.0	4.7
PPG-PR 372	7.7	6.7	33.3	76.7	5.0	5.0	5.7	4.0	4.3	4.7	4.3	4.7
PPG-PR 385	7.3	5.7	40.0	86.7	5.3	5.7	5.7	3.0	4.0	5.0	4.3	4.7
PPG-PR 422	8.0	6.0	40.0	86.3	5.7	5.7	5.3	3.7	3.7	4.7	4.3	4.7
PR-5-16	7.3	6.0	43.3	86.7	5.0	6.3	6.3	2.7	3.3	4.7	4.3	4.7
PST-2PDA	7.7	5.7	40.0	90.0	5.3	5.3	5.0	3.0	4.7	5.0	4.3	4.7
UF3	7.7	6.7	43.3	83.3	4.7	6.0	6.0	4.0	4.3	4.7	3.3	4.7
BRIGHTSTAR SLT	8.0	5.3	40.0	90.0	5.7	5.3	5.0	2.7	4.3	5.0	4.0	4.6
DLFPS-236/3553	7.3	6.0	40.0	76.7	4.3	5.7	6.7	4.0	3.7	4.0	3.7	4.6
FP2	7.7	6.3	46.7	93.0	5.0	5.7	5.7	3.7	3.7	4.3	4.0	4.6
GRAND SLAM GLD	7.3	6.7	43.3	83.3	4.7	6.3	5.7	3.0	4.0	5.3	3.3	4.6
JR-888	7.3	5.7	33.3	76.7	4.3	6.0	5.3	3.0	4.3	4.7	4.7	4.6
OVERDRIVE 5G	7.7	6.3	43.3	90.0	5.3	6.0	5.3	2.7	3.7	5.0	4.3	4.6
RRT	8.0	6.3	40.0	86.7	5.7	6.3	5.7	3.3	3.3	4.0	3.7	4.6
ASPO218 (A-6D)	8.0	5.7	43.3	90.0	5.7	6.7	6.3	2.7	3.0	4.0	3.3	4.5
AMP-R1	7.7	6.0	43.3	89.7	5.0	6.0	6.0	3.0	3.7	4.3	3.7	4.5
DLFPS-236/3550	7.7	6.3	40.0	80.0	4.7	6.0	6.0	3.0	3.3	4.3	4.0	4.5
PPG-PR 367	8.0	6.7	40.0	86.7	5.0	5.7	5.3	3.7	3.7	4.0	4.0	4.5
PPG-PR 424	7.7	6.3	40.0	86.7	5.7	6.0	6.3	2.7	3.3	4.0	3.7	4.5
PST-2FOXY	7.3	5.0	33.3	86.7	4.7	6.3	6.0	2.7	3.7	4.0	4.0	4.5
SEABISCUIT	8.0	5.3	46.7	89.7	5.7	5.7	5.7	3.0	3.7	4.3	3.7	4.5
023	6.7	4.7	56.7	93.0	4.3	5.7	6.7	3.0	3.3	4.0	3.7	4.4
ALLSTAR III	7.7	5.7	40.0	80.0	5.0	5.3	6.0	2.7	3.7	4.0	4.0	4.4
BAR LP 6158	8.0	5.7	43.3	89.7	6.0	5.0	5.7	3.0	4.0	3.7	3.3	4.4
DLFPS-236/3545	7.7	6.3	36.7	83.3	5.3	6.0	5.7	2.3	3.3	4.3	3.7	4.4
JR-123	7.3	6.7	36.7	83.3	5.3	5.3	6.3	3.3	3.3	4.3	3.0	4.4
PPG-PR 329	8.0	6.3	40.0	86.7	5.7	5.7	5.7	3.0	3.7	3.7	3.7	4.4
PPG-PR 419	7.7	6.7	56.7	93.0	5.7	5.7	6.0	2.7	3.0	4.0	3.7	4.4
PST-2EGAD	7.3	6.0	36.7	83.3	5.0	5.0	5.3	3.3	3.7	4.3	4.0	4.4
ASP0118GL (A-4G)	8.0	5.7	46.7	85.0	5.0	6.3	6.0	2.7	3.3	3.7	3.3	4.3
ASP0116EXT	7.7	5.7	36.7	80.0	5.0	6.7	5.7	2.3	3.3	3.3	3.7	4.3
BAR LP 6131	7.3	5.3	40.0	83.3	5.3	4.7	5.0	3.7	4.0	3.7	3.7	4.3
BAR LP 6159	7.0	6.3	43.3	83.0	5.0	6.0	5.3	3.3	3.7	3.7	3.0	4.3
BAR LP 6162	7.7	6.3	26.7	76.3	5.0	5.3	5.7	3.7	3.3	4.0	3.3	4.3
BAR LP 6233	8.0	5.7	46.7	86.3	5.7	5.0	6.0	3.3	3.0	4.0	3.3	4.3
KARMA	7.3	6.3	36.7	83.3	5.0	6.3	5.7	2.7	3.0	4.0	3.3	4.3
MAN O WAR	8.0	5.0	46.7	86.7	5.0	5.7	5.3	3.3	3.0	4.3	3.7	4.3
PR-6-15	7.3	8.3	36.7	70.0	4.0	5.3	5.3	3.3	4.0	4.3	3.7	4.3
PST-2GTD	7.7	5.7	33.3	83.3	4.7	4.3	4.3	3.3	4.7	4.7	4.0	4.3
PEPPER II (RAD-PR 103)	7.3	7.0	23.3	73.3	4.7	4.7	6.0	3.7	3.3	4.0	3.7	4.3
SHIELD (02BS4)	7.3	5.0	43.3	93.0	5.0	5.7	5.3	3.3	2.7	3.7	3.7	4.2
BWH	8.0	6.7	36.7	73.3	4.7	5.0	4.3	3.0	3.7	4.3	4.3	4.2

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT		APR	MAY	JUN	QUALITY RATINGS			OCT	MEAN
			SEPTEMBER	OCTOBER				JUL	AUG	SEP		
CPN	7.7	5.7	46.7	86.3	5.3	4.7	5.3	3.3	3.7	4.0	3.3	4.2
GO-141	7.7	5.7	36.7	83.3	5.0	6.0	6.0	3.0	3.0	3.7	2.7	4.2
GO-142	7.3	6.0	43.3	96.0	5.0	6.0	5.0	2.7	3.3	4.0	3.3	4.2
FURLONG (LTP-FCB)	7.3	7.3	36.7	86.7	5.0	6.3	5.3	2.7	3.0	3.7	3.3	4.2
PST-2BDT	7.7	6.7	36.7	80.0	4.3	5.0	4.3	3.7	3.7	5.0	3.7	4.2
UMPQUA	7.7	5.3	43.3	92.7	5.7	4.7	5.3	3.0	3.3	4.0	3.7	4.2
DLFPS-238/3014	7.7	6.3	33.3	70.0	5.0	4.7	5.3	3.3	3.3	3.7	3.7	4.1
PL2	8.0	5.7	40.0	89.7	5.3	5.3	4.3	3.0	3.3	4.0	3.7	4.1
PPG-PR 371	8.0	6.7	40.0	89.7	5.0	5.7	5.7	3.0	2.7	3.7	3.3	4.1
EVOLVE	7.3	6.0	43.3	76.3	5.3	4.3	4.3	3.0	3.3	4.3	3.7	4.0
SR 4650	7.3	6.0	50.0	90.0	5.0	6.0	5.7	3.0	2.7	3.0	3.0	4.0
XCELERATOR	7.0	7.0	30.0	63.3	3.7	4.3	4.7	3.3	4.0	4.3	4.0	4.0
DLFPS-236/3546	7.3	6.3	36.7	73.3	4.3	4.3	5.0	2.3	3.0	4.3	4.0	3.9
02BS1	7.7	7.0	30.0	76.3	4.7	4.3	5.3	2.7	3.0	3.0	3.0	3.7
DLFPS-236/3548	7.3	6.3	33.3	69.7	3.7	4.3	5.3	3.5	4.5	4.0	4.5	3.7
BAR LP 6165	7.7	6.3	30.0	69.7	4.3	3.0	4.0	3.5	4.0	3.7	2.7	3.5
DERBY XTREME	7.7	6.7	33.3	83.3	5.3	5.3	5.0	2.3	2.0	2.7	2.0	3.5
DLFPS-236/3552	7.0	7.3	33.3	66.7	3.0	3.3	4.7	3.7	4.0	4.0	3.0	3.5
GO-143	7.3	7.0	30.0	66.7	3.7	4.0	3.7	3.0	5.0	4.0	3.5	3.3
LINN	8.3	5.0	33.3	90.0	6.0	2.7	3.3	2.7	2.3	2.0	2.3	3.0
LSD VALUE	2.2	1.9	26.8	42.4	2.9	2.3	2.0	2.2	2.8	2.7	1.9	1.3
C.V. (%)	6.9	13.5	21.2	13.3	16.7	18.8	16.5	23.1	26.5	22.7	19.6	12.7

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
UT2	SILT LOAM AND SILT	7.1-7.5	0-60	151-240	-	FULL SUN	2.6-3.0	TO PREVENT DORMANCY

TABLE 19. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER		QUALITY RATINGS									MEAN
	SPRING	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
BAR LP 6162	99	99	6.7	6.0	7.0	7.0	7.3	7.0	6.7	9.0	7.1	
BAR LP 6165	99	99	6.0	5.7	7.7	5.7	8.3	7.7	7.0	9.0	7.1	
DLFPS-236/3554	99	99	6.7	6.0	7.3	6.7	8.7	7.3	6.0	8.3	7.1	
BAR LP 6117	99	99	6.3	6.0	7.7	6.0	8.3	7.3	6.0	8.7	7.0	
DLFPS-236/3545	99	99	5.3	5.7	7.0	6.7	9.0	7.7	6.3	8.0	7.0	
PPG-PR 343	99	99	7.3	6.7	7.7	7.0	7.3	6.3	5.0	9.0	7.0	
PPG-PR 420	99	99	6.7	6.3	7.3	5.3	8.3	7.3	5.7	8.7	7.0	
DLFPS-236/3538	99	99	7.0	6.0	8.3	6.0	7.7	6.7	5.3	8.3	6.9	
FP2	99	99	6.0	6.0	7.3	6.3	8.3	7.0	5.3	8.7	6.9	
SILVER SPORT (PST-2CRP)	99	99	6.3	6.3	8.0	6.7	7.7	7.0	5.3	8.0	6.9	
DLFPS-236/3544	99	99	6.0	6.0	7.0	6.0	9.0	7.3	5.3	8.0	6.8	
DLFPS-236/3548	99	99	6.3	6.0	7.7	6.0	6.7	6.7	6.0	9.0	6.8	
DLFPS-236/3552	99	99	6.7	6.7	7.3	6.0	8.3	7.0	4.7	7.3	6.8	
PPG-PR 371	99	99	5.7	5.7	7.3	6.7	8.3	7.0	5.3	8.3	6.8	
PPG-PR 419	99	99	6.3	6.0	7.3	6.0	8.7	7.0	5.0	8.3	6.8	
PPG-PR 421	99	99	6.3	6.3	8.0	6.3	8.0	6.3	4.7	8.3	6.8	
PR-5-16	99	99	7.0	6.0	7.7	6.3	8.0	7.0	5.0	7.7	6.8	
GRAY WOLF (PST-2GAL)	99	99	7.0	6.0	7.3	6.0	8.0	7.0	5.3	8.0	6.8	
PEPPER II (RAD-PR 103)	99	99	6.0	5.7	7.0	5.7	8.0	7.3	6.3	8.0	6.8	
UMPQUA	99	99	5.7	5.3	7.7	6.3	8.0	7.3	5.7	8.7	6.8	
APR2616	99	99	6.3	5.3	7.7	6.3	7.0	6.7	5.7	8.7	6.7	
EVOLVE	99	99	5.3	5.7	7.0	5.7	8.3	7.3	6.0	8.0	6.7	
PPG-PR 370	99	99	6.0	5.3	7.7	6.0	8.0	7.0	5.0	8.7	6.7	
PPG-PR 372	99	99	6.3	6.0	7.3	6.7	7.7	6.7	5.0	8.0	6.7	
PPG-PR 424	99	99	6.0	5.7	7.3	6.7	7.3	6.7	5.3	8.3	6.7	
SR 4650	99	99	6.0	5.7	7.3	6.3	8.0	7.0	5.3	8.0	6.7	
BAR LP 6164	99	99	6.3	5.7	7.3	6.0	8.0	6.7	5.0	8.0	6.6	
CPN	99	99	6.3	5.7	7.3	6.0	8.0	6.7	5.0	7.7	6.6	
PPG-PR 367	99	99	6.0	5.3	7.0	6.7	7.7	6.7	5.3	8.3	6.6	
PPG-PR 385	99	99	6.7	5.7	7.7	5.7	7.3	6.7	5.0	8.3	6.6	
PST-2EGAD	99	99	5.7	5.0	6.3	5.0	8.0	7.7	6.7	8.7	6.6	
PST-2GTD	99	99	6.7	5.7	6.7	6.3	7.3	6.7	5.3	8.0	6.6	
02BS1	99	99	5.7	5.3	6.0	6.0	7.7	7.0	5.3	9.0	6.5	
SHIELD (02BS4)	99	99	5.7	5.7	6.7	6.0	8.3	7.0	5.3	7.7	6.5	
ASP0116EXT	99	99	5.0	5.0	6.0	5.0	8.0	7.7	6.7	8.3	6.5	
BAR LP 6131	99	99	5.7	6.0	7.3	5.3	7.0	6.7	5.7	8.3	6.5	
DLFPS-236/3542	99	99	5.7	6.0	7.7	5.7	8.0	6.7	5.0	7.3	6.5	
DLFPS-236/3547	99	99	6.0	5.3	7.7	6.3	7.3	6.7	5.3	7.7	6.5	
DLFPS-236/3553	99	99	7.0	6.3	7.0	5.7	7.0	6.3	5.3	7.3	6.5	
DLFPS-238/3014	99	99	6.3	5.7	7.3	6.0	6.7	6.3	5.7	8.0	6.5	
GRAND SLAM GLD	99	99	6.3	6.0	7.3	6.3	7.0	6.0	5.0	7.7	6.5	
NP-3	99	99	5.3	6.0	6.7	6.3	7.7	6.7	5.3	8.0	6.5	
OVERDRIVE 5G	99	99	6.3	6.0	6.7	5.7	6.7	6.7	6.0	7.7	6.5	
PPG-PR 423	99	99	6.3	5.7	7.7	6.7	6.3	6.0	5.3	7.7	6.5	
PST-2A2	99	99	6.0	5.7	7.0	5.3	6.7	6.7	5.7	8.7	6.5	
PST-2FOXY	99	99	5.3	5.3	7.3	5.0	7.7	7.0	5.7	8.7	6.5	
SEABISCUIT	99	99	6.3	6.0	7.7	6.0	7.0	6.3	5.0	7.7	6.5	

TABLE 19.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER		QUALITY RATINGS								
	SPRING	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SIGNET	99	99	6.0	5.7	6.0	5.0	7.7	7.0	6.0	8.7	6.5
APR3060	99	99	5.3	5.7	7.3	6.0	7.3	6.3	5.3	8.0	6.4
DLFPS-236/3541	99	99	6.7	6.0	7.3	5.3	7.0	6.3	5.0	7.7	6.4
DLFPS-236/3546	99	99	5.7	5.7	7.3	6.0	6.3	6.3	5.7	8.3	6.4
DLFPS-236/3550	99	99	6.3	6.3	6.3	4.7	8.0	6.7	5.0	8.0	6.4
INTENSE	99	99	6.0	6.7	7.7	7.0	5.7	5.7	5.0	7.3	6.4
MRSL-PR16	99	99	6.0	5.7	6.7	4.3	7.3	7.3	6.7	7.3	6.4
PL2	99	99	6.3	5.7	7.7	5.3	7.0	6.7	5.3	7.3	6.4
PPG-PR 331	99	99	6.3	6.3	7.0	6.3	7.0	5.7	4.3	8.0	6.4
PST-2PDA	99	99	6.7	5.7	7.3	5.3	7.3	6.7	5.3	7.0	6.4
O21	99	99	6.0	5.7	6.3	5.7	6.7	6.3	5.3	8.3	6.3
O23	99	99	6.7	6.3	7.7	5.0	6.7	6.0	4.7	7.0	6.3
BAR LP 6158	99	99	6.3	5.7	6.3	5.0	6.7	6.3	5.3	9.0	6.3
BSP-25	99	99	5.7	5.7	6.3	6.3	6.7	6.3	5.0	8.0	6.3
DLFPS-236/3540	99	99	6.3	6.3	7.7	5.0	6.7	6.0	5.0	7.3	6.3
DLFPS-236/3543	99	99	6.0	5.7	7.3	6.0	7.0	6.3	4.7	7.3	6.3
DLFPS-236/3556	99	99	5.3	5.3	7.3	5.3	7.3	6.7	5.3	7.7	6.3
GO-141	99	99	5.7	6.0	6.7	5.0	7.0	6.7	5.3	8.0	6.3
NP-2	99	99	5.7	5.3	7.3	6.7	6.7	6.0	4.7	8.0	6.3
PHARAOH	99	99	6.0	5.0	7.0	7.0	7.7	6.0	4.3	7.0	6.3
PPG-PR 360	99	99	6.7	6.7	8.0	6.3	6.7	5.3	3.7	6.7	6.3
PR-6-15	99	99	5.7	5.7	6.7	5.0	6.7	6.3	6.0	8.3	6.3
RAD-PR 112	99	99	6.3	6.0	6.0	5.3	5.7	6.0	6.0	8.7	6.3
RRT	99	99	6.3	6.7	6.3	5.7	7.7	6.3	4.7	7.0	6.3
SNX	99	99	6.0	5.3	6.7	4.7	6.7	6.3	5.7	9.0	6.3
XCELERATOR	99	99	5.7	6.0	7.3	6.0	7.3	6.0	4.3	7.3	6.3
BAR LP 6233	99	99	5.3	5.3	7.7	6.0	6.7	6.0	5.0	7.3	6.2
DERBY XTREME	99	99	6.7	5.7	6.7	5.7	7.3	6.0	4.0	7.7	6.2
KARMA	99	99	7.0	6.7	8.0	6.0	6.7	5.7	4.0	5.3	6.2
FURLONG (LTP-FCB)	99	99	6.7	5.7	7.7	6.7	6.3	5.7	4.3	6.7	6.2
PPG-PR 241	99	99	5.7	5.3	6.3	6.0	7.7	6.3	4.7	7.3	6.2
PPG-PR 329	99	99	6.0	5.7	7.7	5.7	7.0	6.3	4.7	6.7	6.2
ASP0117 (A-PR15)	99	99	4.7	4.3	6.3	5.3	7.3	7.0	6.0	7.7	6.1
AMP-R1	99	99	5.3	5.3	6.3	4.7	6.7	6.3	5.3	9.0	6.1
BAR LP 6159	99	99	6.0	5.7	7.0	4.7	6.7	6.0	5.0	7.7	6.1
GO-142	99	99	6.3	5.7	6.3	4.7	7.0	6.0	4.7	8.0	6.1
GO-143	99	99	5.3	5.7	6.3	4.7	7.7	6.7	5.3	7.3	6.1
JR-123	99	99	5.7	6.0	7.3	4.3	7.0	6.3	5.0	7.3	6.1
MAN O WAR	99	99	6.3	6.0	6.7	5.7	5.7	5.3	5.0	8.0	6.1
PPG-PR 422	99	99	6.7	5.7	7.3	6.3	6.3	5.7	4.0	6.7	6.1
SAGUARO	99	99	6.0	6.0	7.3	5.0	7.0	6.0	4.3	7.3	6.1
APR2612	99	99	5.7	5.7	7.0	5.7	6.3	6.0	5.3	6.7	6.0
CS-6	99	99	5.3	5.7	6.7	5.0	6.0	6.0	5.0	8.3	6.0
JR-197	99	99	6.0	5.7	6.7	5.3	7.0	6.0	4.3	7.0	6.0
JR-888	99	99	6.7	6.0	8.3	5.7	5.3	5.0	4.3	6.7	6.0
PPG-PR 339	99	99	5.7	5.0	7.0	6.0	7.0	6.0	4.3	7.0	6.0
PST-2BDT	99	99	5.7	5.7	6.7	5.0	6.0	6.0	5.3	7.7	6.0

TABLE 19.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2016 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GROUND COVER		QUALITY RATINGS								
	SPRING	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
ASPO218 (A-6D)	99.0	99.0	6.0	5.7	6.0	5.0	8.3	6.3	4.3	5.3	5.9
BRIGHTSTAR SLT	99.0	99.0	6.3	5.3	6.0	4.7	6.3	5.7	4.3	8.3	5.9
PST-2MAY	99.0	99.0	5.3	5.0	7.3	5.7	6.0	5.7	4.7	7.3	5.9
O2BS2	99.0	99.0	5.0	5.3	6.3	5.3	7.0	5.7	4.3	7.3	5.8
ASPO118GL (A-4G)	99.0	99.0	5.3	5.3	6.3	5.3	6.7	6.0	4.7	6.7	5.8
JR-747	99.0	99.0	6.3	6.3	6.3	5.0	5.7	5.3	4.0	7.0	5.8
LPB-SD-101	99.0	99.0	6.3	5.7	8.3	5.0	5.3	5.0	4.3	6.7	5.8
MRSL-PR15	99.0	99.0	5.7	5.3	6.7	5.0	7.3	6.0	4.0	6.7	5.8
GRAY HAWK (PST-2FIND)	99.0	99.0	5.3	5.0	7.3	5.0	6.0	5.7	5.0	7.0	5.8
UF3	99.0	99.0	4.3	5.3	6.0	5.7	6.3	5.7	4.7	7.7	5.7
ALLSTAR III	99.0	99.0	5.7	5.3	6.0	5.0	6.3	5.7	4.3	6.7	5.6
SAVANT	99.0	99.0	5.3	6.3	8.0	6.0	5.0	4.7	3.7	5.7	5.6
BWH	99.0	99.0	5.3	5.3	5.7	4.3	6.0	5.3	4.3	6.3	5.3
LPB-SD-104	99.0	99.0	6.3	5.7	8.0	4.3	4.7	4.3	3.7	5.7	5.3
MENSA	99.0	99.0	6.3	6.0	7.7	5.0	5.0	4.0	3.0	5.7	5.3
LPB-SD-102	99.0	99.0	5.3	5.3	8.0	5.0	4.0	4.0	3.7	5.3	5.1
LPB-SD-103	99.0	99.0	6.0	6.3	8.0	4.3	4.3	4.0	2.7	5.0	5.1
LPB-SD-105	99.0	99.0	5.0	5.3	7.0	5.3	4.3	3.7	3.0	5.3	4.9
BSP-17	86.0	87.7	4.0	4.7	5.7	3.7	5.0	4.7	3.7	6.3	4.7
LINN	90.0	97.7	5.0	5.0	6.7	3.0	3.7	3.7	3.3	5.3	4.5
LSD VALUE	5.5	8.3	3.1	1.9	2.7	2.2	3.3	2.3	2.0	3.3	1.5
C.V. (%)	2.1	1.9	15.3	11.3	13.1	17.6	20.3	17.1	19.8	17.3	10.5

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

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

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
VA1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS

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/
2017 DATA

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

NAME	QUALITY RATINGS						QUALITY RATINGS				2-WEEKS		BEFORE TRAFFIC		MIDDLE OF TRAFFIC		LAST TRAFFIC	
	APR	MAY	JUN	JUL	AUG	SEP	BEFORE TRAFFIC	MIDDLE TRAFFIC	LAST TRAFFIC	AFTER TRAFFIC	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER		
PEPPER II (RAD-PR 103)	6.0	5.7	7.0	5.7	8.0	7.3	2.7	3.3	3.0	3.0	26.7	72.3	60.0	40.0	63.3	35.7		
EVOLVE	5.3	5.7	7.0	5.7	8.3	7.3	3.3	3.7	3.7	3.7	28.3	70.7	60.0	40.0	61.7	37.3		
BAR LP 6233	5.3	5.3	7.7	6.0	6.7	6.0	3.0	3.3	3.3	3.3	23.3	75.7	55.0	45.0	60.0	39.0		
DLFPS-236/3542	5.7	6.0	7.7	5.7	8.0	6.7	3.0	3.3	3.3	3.3	28.3	70.7	58.3	41.7	60.0	39.0		
BAR LP 6158	6.3	5.7	6.3	5.0	6.7	6.3	3.3	3.3	3.3	3.3	28.3	70.7	56.7	43.3	58.3	40.7		
PST-2FOXYT	5.3	5.3	7.3	5.0	7.7	7.0	3.3	3.0	3.0	3.0	25.0	74.0	55.0	45.0	58.3	40.7		
GRAY WOLF (PST-2GAL)	7.0	6.0	7.3	6.0	8.0	7.0	2.7	3.3	3.3	3.3	21.7	77.3	56.7	43.3	58.3	40.7		
BAR LP 6165	6.0	5.7	7.7	5.7	8.3	7.7	3.3	3.7	3.7	3.7	25.0	74.0	56.7	43.3	56.7	42.3		
PPG-PR 419	6.3	6.0	7.3	6.0	8.7	7.0	3.3	3.3	3.3	3.3	31.7	67.3	55.0	45.0	56.7	42.3		
Q2BS1	5.7	5.3	6.0	6.0	7.7	7.0	3.0	3.3	3.0	3.0	26.7	72.3	55.0	45.0	55.0	44.0		
SHIELD (02BS4)	5.7	5.7	6.7	6.0	8.3	7.0	2.7	3.3	3.3	3.3	20.0	79.0	50.0	50.0	55.0	50.7		
APR3060	5.3	5.7	7.3	6.0	7.3	6.3	3.0	3.3	3.3	3.3	21.7	77.3	53.3	46.7	55.0	44.0		
PST-2EGAD	5.7	5.0	6.3	5.0	8.0	7.7	3.3	3.3	3.3	3.3	21.7	77.3	51.7	48.3	55.0	44.0		
SEABISCUIT	6.3	6.0	7.7	6.0	7.0	6.3	3.0	3.3	3.3	3.3	25.0	74.0	53.3	46.7	55.0	44.0		
ASP0117 (A-PR15)	4.7	4.3	6.3	5.3	7.3	7.0	3.0	3.0	3.0	3.0	26.7	72.3	53.3	46.7	53.3	45.7		
DLFPS-238/3014	6.3	5.7	7.3	6.0	6.7	6.3	3.0	3.3	2.7	2.7	25.0	74.0	51.7	48.3	53.3	45.7		
ASP0218 (A-6D)	6.0	5.7	6.0	5.0	8.3	6.3	2.7	3.3	3.3	3.3	28.3	70.7	48.3	51.7	51.7	47.3		
CPN	6.3	5.7	7.3	6.0	8.0	6.7	2.7	3.0	3.0	3.0	28.3	70.7	50.0	50.0	51.7	47.3		
DLFPS-236/3544	6.0	6.0	7.0	6.0	9.0	7.3	3.0	3.3	3.3	3.3	23.3	75.7	51.7	48.3	51.7	47.3		
BAR LP 6159	6.0	5.7	7.0	4.7	6.7	6.0	3.0	3.0	3.0	3.0	21.7	77.3	46.7	53.3	50.0	49.0		
GO-141	5.7	6.0	6.7	5.0	7.0	6.7	3.0	3.0	3.0	3.0	26.7	72.3	50.0	50.0	50.0	49.0		
XCELERATOR	5.7	6.0	7.3	6.0	7.3	6.0	2.7	3.0	3.0	3.0	26.7	72.3	50.0	50.0	50.0	49.0		
DLFPS-236/3545	5.3	5.7	7.0	6.7	9.0	7.7	3.3	3.0	3.0	3.0	28.3	70.7	48.3	51.7	48.3	50.7		
JR-123	5.7	6.0	7.3	4.3	7.0	6.3	3.0	2.7	2.7	2.7	25.0	74.0	48.3	51.7	48.3	50.7		
BSP-17	4.0	4.7	5.7	3.7	5.0	4.7	2.3	2.3	2.3	2.3	21.7	77.3	45.0	55.0	46.7	52.3		
PR-5-16	7.0	6.0	7.7	6.3	8.0	7.0	3.3	3.3	3.3	3.3	23.3	75.7	45.0	55.0	46.7	52.3		
SNX	6.0	5.3	6.7	4.7	6.7	6.3	3.3	3.0	3.0	3.0	20.0	79.0	38.3	61.7	46.7	52.3		
DLFPS-236/3543	6.0	5.7	7.3	6.0	7.0	6.3	3.0	2.7	2.7	2.7	18.3	80.7	43.3	56.7	45.0	54.0		
PPG-PR 370	6.0	5.3	7.7	6.0	8.0	7.0	3.0	3.0	3.0	3.0	26.7	72.3	43.3	56.7	45.0	54.0		
PPG-PR 420	6.7	6.3	7.3	5.3	8.3	7.3	2.7	2.7	2.7	2.7	28.3	70.7	45.0	55.0	45.0	54.0		
PPG-PR 421	6.3	6.3	8.0	6.3	8.0	6.3	2.7	2.7	2.7	2.7	30.0	69.0	41.7	58.3	45.0	54.0		
MRSAL-PR16	6.0	5.7	6.7	4.3	7.3	7.3	3.3	2.7	2.7	2.7	25.0	74.0	43.3	56.7	43.3	55.7		
PPG-PR 371	5.7	5.7	7.3	6.7	8.3	7.0	3.0	3.0	3.0	3.0	25.0	74.0	43.3	56.7	43.3	55.7		
GRAY HAWK (PST-2FIND)	5.3	5.0	7.3	5.0	6.0	5.7	2.7	2.7	2.7	2.7	18.3	80.7	38.3	61.7	43.3	55.7		
SIGNET	6.0	5.7	6.0	5.0	7.7	7.0	3.0	2.7	2.7	2.7	28.3	70.7	43.3	56.7	43.3	55.7		
DLFPS-236/3547	6.0	5.3	7.7	6.3	7.3	6.7	2.7	2.7	2.7	2.7	18.3	80.7	40.0	60.0	41.7	57.3		
PHARAOH	6.0	5.0	7.0	7.0	7.7	6.0	2.3	2.3	2.3	2.3	18.3	80.7	40.0	60.0	41.7	57.3		
PPG-PR 360	6.7	6.7	8.0	6.3	6.7	5.3	2.7	2.7	2.7	2.7	21.7	77.3	41.7	58.3	41.7	57.3		
PPG-PR 422	6.7	5.7	7.3	6.3	6.3	5.7	2.0	2.7	2.7	2.7	18.3	80.7	38.3	61.7	41.7	57.3		
BSP-25	5.7	5.7	6.3	6.3	6.7	6.3	2.7	2.3	2.3	2.3	23.3	75.7	40.0	60.0	40.0	59.0		
BWH	5.3	5.3	5.7	4.3	6.0	5.3	2.3	2.3	2.3	2.3	16.7	82.3	40.0	60.0	40.0	59.0		
CS-6	5.3	5.7	6.7	5.0	6.0	6.0	2.7	2.3	2.3	2.3	21.7	77.3	38.3	61.7	40.0	59.0		
DLFPS-236/3550	6.3	6.3	6.3	4.7	8.0	6.7	3.0	2.7	2.7	2.7	25.0	74.0	40.0	60.0	40.0	59.0		
FP2	6.0	6.0	7.3	6.3	8.3	7.0	3.0	2.7	2.7	2.7	20.0	79.0	40.0	60.0	40.0	59.0		
GO-142	6.3	5.7	6.3	4.7	7.0	6.0	2.3	2.7	2.7	2.7	23.3	75.7	36.7	63.3	40.0	59.0		
PPG-PR 343	7.3	6.7	7.7	7.0	7.3	6.3	2.7	2.3	2.3	2.3	20.0	79.0	40.0	60.0	40.0	59.0		
PPG-PR 367	6.0	5.3	7.0	6.7	7.7	6.7	2.3	2.7	2.7	2.7	20.0	79.0	40.0	60.0	40.0	59.0		

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/
2017 DATA

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

NAME	QUALITY RATINGS					QUALITY RATINGS			2-WEEKS		BEFORE	TRAFFIC	MIDDLE OF TRAFFIC		LAST TRAFFIC	
	APR	MAY	JUN	JUL	AUG	BEFORE	MIDDLE	LAST	AFTER	% GREEN	% BARE	% GREEN	% BARE	% GREEN	% BARE	
						TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	COVER	COVER	COVER	COVER	COVER	COVER	
PR-6-15	5.7	5.7	6.7	5.0	6.7	6.3	2.7	2.7	2.7	2.7	18.3	80.7	38.3	61.7	40.0	59.0
UF3	4.3	5.3	6.0	5.7	6.3	5.7	3.0	2.7	2.7	2.7	23.3	75.7	40.0	60.0	40.0	59.0
UMPQUA	5.7	5.3	7.7	6.3	8.0	7.3	3.0	3.0	3.0	3.0	20.0	79.0	38.3	61.7	40.0	59.0
ASP0118GL (A-4G)	5.3	5.3	6.3	5.3	6.7	6.0	2.3	2.7	2.7	2.7	20.0	79.0	36.7	63.3	38.3	60.7
APR2616	6.3	5.3	7.7	6.3	7.0	6.7	3.0	3.0	3.0	3.0	20.0	79.0	36.7	63.3	38.3	60.7
ASP0116EXT	5.0	5.0	6.0	5.0	8.0	7.7	3.0	3.0	3.0	3.0	30.0	69.0	36.7	63.3	38.3	60.7
BAR LP 6164	6.3	5.7	7.3	6.0	8.0	6.7	2.7	2.7	2.7	2.7	18.3	80.7	33.3	66.7	38.3	60.7
PPG-PR 424	6.0	5.7	7.3	6.7	7.3	6.7	3.0	3.0	3.0	3.0	25.0	74.0	38.3	61.7	38.3	60.7
SILVER SPORT (PST-2CRP)	6.3	6.3	8.0	6.7	7.7	7.0	2.7	3.3	3.0	3.0	18.3	80.7	48.3	51.7	37.7	61.3
DLFPS-236/3538	7.0	6.0	8.3	6.0	7.7	6.7	2.0	2.3	2.3	2.3	16.7	82.3	36.7	63.3	36.7	62.3
DLFPS-236/3552	6.7	6.7	7.3	6.0	8.3	7.0	2.3	2.7	2.7	2.7	21.7	77.3	36.7	63.3	36.7	62.3
DLFPS-236/3553	7.0	6.3	7.0	5.7	7.0	6.3	2.7	2.7	2.7	2.7	15.0	84.0	35.0	65.0	36.7	62.3
DLFPS-236/3554	6.7	6.0	7.3	6.7	8.7	7.3	2.7	2.7	2.7	2.7	16.7	82.3	35.0	65.0	36.7	62.3
AMP-R1	5.3	5.3	6.3	4.7	6.7	6.3	2.3	2.7	2.7	2.7	20.0	79.0	33.3	66.7	35.0	64.0
BAR LP 6162	6.7	6.0	7.0	7.0	7.3	7.0	3.3	2.7	2.7	2.7	25.0	74.0	33.3	66.7	35.0	64.0
BRIGHTSTAR SLT	6.3	5.3	6.0	4.7	6.3	5.7	2.0	2.0	2.0	2.0	20.0	79.0	30.0	70.0	35.0	64.0
DLFPS-236/3548	6.3	6.0	7.7	6.0	6.7	6.7	3.0	2.7	2.7	2.7	18.3	80.7	35.0	65.0	35.0	64.0
GRAND SLAM GLD	6.3	6.0	7.3	6.3	7.0	6.0	2.7	2.3	2.3	2.3	20.0	79.0	35.0	65.0	35.0	64.0
NP-3	5.3	6.0	6.7	6.3	7.7	6.7	2.7	2.3	2.3	2.3	18.3	80.7	33.3	66.7	35.0	64.0
DLFPS-236/3556	5.3	5.3	7.3	5.3	7.3	6.7	2.7	2.3	2.3	2.3	21.7	77.3	30.0	70.0	33.3	65.7
PL2	6.3	5.7	7.7	5.3	7.0	6.7	2.7	2.3	2.3	2.3	18.3	80.7	33.3	66.7	33.3	65.7
RRT	6.3	6.7	6.3	5.7	7.7	6.3	2.0	2.0	2.0	2.0	21.7	77.3	33.3	66.7	33.3	65.7
BAR LP 6131	5.7	6.0	7.3	5.3	7.0	6.7	2.7	2.7	2.7	2.7	16.7	82.3	31.7	68.3	31.7	67.3
DLFPS-236/3540	6.3	6.3	7.7	5.0	6.7	6.0	3.0	2.7	2.7	2.7	23.3	75.7	31.7	68.3	31.7	67.3
PST-2BDT	5.7	5.7	6.7	5.0	6.0	6.0	2.7	2.3	2.3	2.3	23.3	75.7	30.0	70.0	31.7	67.3
PST-2GTD	6.7	5.7	6.7	6.3	7.3	6.7	2.3	2.3	2.3	2.3	18.3	80.7	30.0	70.0	31.7	67.3
PPG-PR 385	6.7	5.7	7.7	5.7	7.3	6.7	2.7	2.7	2.7	2.7	20.0	79.0	36.7	63.3	31.0	68.0
ALLSTAR III	5.7	5.3	6.0	5.0	6.3	5.7	2.3	2.7	2.7	2.7	16.7	82.3	30.0	70.0	30.0	69.0
BAR LP 6117	6.3	6.0	7.7	6.0	8.3	7.3	3.0	2.7	2.7	2.7	20.0	79.0	28.3	71.7	30.0	69.0
JR-197	6.0	5.7	6.7	5.3	7.0	6.0	2.3	2.7	2.7	2.7	15.0	84.0	28.3	71.7	30.0	69.0
OVERDRIVE 5G	6.3	6.0	6.7	5.7	6.7	6.7	2.7	2.7	2.7	2.7	20.0	79.0	26.7	73.3	30.0	69.0
PST-2MAY	5.3	5.0	7.3	5.7	6.0	5.7	2.7	2.3	2.3	2.3	18.3	80.7	28.3	71.7	30.0	69.0
O21	6.0	5.7	6.3	5.7	6.7	6.3	2.7	2.0	2.0	2.0	20.0	79.0	27.7	72.3	29.3	69.7
DLFPS-236/3541	6.7	6.0	7.3	5.3	7.0	6.3	2.3	2.0	2.0	2.0	11.7	87.3	29.0	71.0	29.0	70.0
GO-143	5.3	5.7	6.3	4.7	7.7	6.7	2.3	1.7	1.7	1.7	21.7	77.3	28.3	71.7	28.3	70.7
RAD-PR 112	6.3	6.0	6.0	5.3	5.7	6.0	2.0	2.3	2.3	2.3	15.0	84.0	26.7	73.3	28.3	70.7
MRSL-PR15	5.7	5.3	6.7	5.0	7.3	6.0	2.0	2.3	2.3	2.3	10.0	89.0	25.0	75.0	26.7	72.3
PPG-PR 241	5.7	5.3	6.3	6.0	7.7	6.3	2.0	2.0	2.0	2.0	18.3	80.7	23.3	76.7	26.7	72.3
PPG-PR 331	6.3	6.3	7.0	6.3	7.0	5.7	2.0	2.0	2.0	2.0	20.0	79.0	26.7	73.3	26.7	72.3
PPG-PR 372	6.3	6.0	7.3	6.7	7.7	6.7	2.3	2.0	2.0	2.0	16.7	82.3	26.7	73.3	26.7	72.3
KARMA	7.0	6.7	8.0	6.0	6.7	5.7	1.7	2.0	2.0	2.0	13.3	85.7	25.0	75.0	25.0	74.0
MAN O WAR	6.3	6.0	6.7	5.7	5.7	5.3	1.7	2.0	2.0	2.3	16.7	82.3	21.7	78.3	25.0	74.0
PPG-PR 339	5.7	5.0	7.0	6.0	7.0	6.0	2.0	2.0	2.0	2.0	18.3	80.7	23.3	76.7	25.0	74.0
SR 4650	6.0	5.7	7.3	6.3	8.0	7.0	2.0	1.7	1.7	1.7	18.3	80.7	25.0	75.0	25.0	74.0
JR-747	6.3	6.3	6.3	5.0	5.7	5.3	1.7	1.7	1.7	1.7	13.3	85.7	22.3	77.7	24.0	75.0
JR-888	6.7	6.0	8.3	5.7	5.3	5.0	2.0	1.7	1.7	1.7	13.3	85.7	23.3	76.7	23.3	75.7
PPG-PR 423	6.3	5.7	7.7	6.7	6.3	6.0	2.3	2.0	2.0	2.0	16.7	82.3	23.3	76.7	23.3	75.7

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/
2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	QUALITY RATINGS						2-WEEKS		BEFORE TRAFFIC		MIDDLE OF TRAFFIC		LAST TRAFFIC			
	APR	MAY	JUN	JUL	AUG	SEP	BEFORE TRAFFIC	MIDDLE TRAFFIC	LAST TRAFFIC	TRAFFIC AFTER	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER
PST-2PDA	6.7	5.7	7.3	5.3	7.3	6.7	2.7	2.3	2.3	2.3	15.0	84.0	23.3	76.7	23.3	75.7
O2BS2	5.0	5.3	6.3	5.3	7.0	5.7	2.7	2.0	2.0	2.0	25.0	74.0	21.7	78.3	21.7	77.3
DLFPS-236/3546	5.7	5.7	7.3	6.0	6.3	6.3	2.3	2.3	2.3	2.3	21.7	77.3	21.7	78.3	21.7	77.3
O23	6.7	6.3	7.7	5.0	6.7	6.0	2.0	1.7	1.7	1.7	16.7	82.3	18.3	81.7	20.0	79.0
APR2612	5.7	5.7	7.0	5.7	6.3	6.0	2.3	1.7	1.7	1.7	16.7	82.3	20.0	80.0	20.0	79.0
FURLONG (LTP-FCB)	6.7	5.7	7.7	6.7	6.3	5.7	2.0	1.7	1.7	1.7	16.7	82.3	18.3	81.7	20.0	79.0
NP-2	5.7	5.3	7.3	6.7	6.7	6.0	2.0	1.7	1.7	1.7	16.7	82.3	18.3	81.7	20.0	79.0
PST-2A2	6.0	5.7	7.0	5.3	6.7	6.7	2.3	2.0	2.0	2.0	16.7	82.3	20.0	80.0	20.0	79.0
DERBY XTREME	6.7	5.7	6.7	5.7	7.3	6.0	1.3	1.7	1.7	1.7	11.7	87.3	17.7	82.3	19.3	79.7
SAGUARO	6.0	6.0	7.3	5.0	7.0	6.0	1.7	1.7	1.7	1.7	13.3	85.7	16.7	83.3	18.3	80.7
LPB-SD-101	6.3	5.7	8.3	5.0	5.3	5.0	2.0	1.7	1.7	1.7	11.7	87.3	14.0	86.0	15.7	83.3
LPB-SD-105	5.0	5.3	7.0	5.3	4.3	3.7	1.3	1.3	1.3	1.3	15.0	84.0	15.7	84.3	15.7	83.3
INTENSE	6.0	6.7	7.7	7.0	5.7	5.7	2.3	1.7	1.7	1.7	16.7	82.3	13.3	86.7	15.0	84.0
PPG-PR 329	6.0	5.7	7.7	5.7	7.0	6.3	2.3	1.7	1.7	1.7	23.3	75.7	15.0	85.0	15.0	84.0
MENSA	6.3	6.0	7.7	5.0	5.0	4.0	1.3	1.3	1.3	1.3	10.0	89.0	11.3	88.7	13.0	86.0
SAVANT	5.3	6.3	8.0	6.0	5.0	4.7	1.7	1.3	1.3	1.3	11.7	87.3	12.3	87.7	12.3	86.7
LPB-SD-102	5.3	5.3	8.0	5.0	4.0	4.0	1.3	1.0	1.0	1.0	11.7	87.3	7.7	92.3	7.7	91.3
LPB-SD-104	6.3	5.7	8.0	4.3	4.7	4.3	1.7	1.0	1.0	1.0	6.7	92.3	5.0	95.0	6.7	92.3
LPB-SD-103	6.0	6.3	8.0	4.3	4.3	4.0	1.0	1.0	1.0	1.0	10.0	89.0	4.0	96.0	5.7	93.3
LINN	5.0	5.0	6.7	3.0	3.7	3.7	1.0	1.0	1.0	1.0	5.0	94.0	4.0	96.0	4.0	95.0
LSD VALUE	3.1	1.9	2.7	2.2	3.3	2.3	1.7	1.6	1.6	1.6	19.5	19.5	50.9	50.9	55.7	57.0
C.V. (%)	15.3	11.3	13.1	17.6	20.3	17.1	29.1	31.1	30.8	30.9	37.2	9.5	54.9	29.5	55.2	31.8

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 A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
VA2	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS

TABLE 21. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON, WI 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	QUALITY RATINGS							MEAN
	COLOR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PPG-PR 423	7.7	7.0	7.7	8.0	7.0	6.7	6.7	6.3	7.0
DLFPS-236/3545	7.3	6.3	6.7	7.0	7.0	7.3	7.0	6.0	6.8
PPG-PR 424	7.3	6.7	6.7	7.0	7.0	6.7	6.7	6.3	6.7
LPB-SD-105	7.0	6.3	6.7	7.0	5.7	7.0	7.0	6.3	6.6
SAVANT	6.3	6.7	6.7	7.3	6.3	6.3	7.0	6.0	6.6
DLFPS-236/3553	7.3	4.7	6.7	7.3	7.0	7.0	6.0	6.0	6.4
JR-888	5.7	6.7	6.7	7.0	5.7	6.3	6.3	6.0	6.4
PR-5-16	7.7	5.7	7.0	7.0	6.3	7.0	6.0	5.7	6.4
PST-2A2	7.0	6.0	6.3	7.0	6.3	6.7	6.3	6.0	6.4
O2BS2	7.0	5.3	5.7	6.3	7.0	7.0	6.3	6.7	6.3
NP-3	7.3	6.0	6.0	7.0	6.7	6.3	6.0	6.0	6.3
PPG-PR 331	7.7	6.7	6.3	7.3	6.0	6.3	5.7	6.0	6.3
PST-2FOXY	8.0	6.3	6.3	7.3	6.0	6.3	5.7	6.3	6.3
APR2612	7.7	6.0	6.3	7.0	6.0	6.7	5.7	5.7	6.2
DLFPS-236/3546	7.0	6.0	6.0	5.3	7.0	6.7	6.3	6.3	6.2
DLFPS-236/3554	7.7	5.7	6.7	7.0	6.0	6.0	6.3	6.0	6.2
DLFPS-238/3014	5.7	6.3	6.3	6.7	6.0	6.3	6.0	5.7	6.2
FURLONG (LTP-FCB)	7.0	5.3	5.7	6.3	6.3	7.0	6.3	6.7	6.2
OVERDRIVE 5G	7.0	6.0	6.0	7.0	6.3	6.3	6.0	5.7	6.2
PPG-PR 367	6.7	5.3	4.7	6.7	7.3	7.0	6.3	6.0	6.2
SILVER SPORT (PST-2CRP)	8.0	5.7	6.0	6.5	7.0	7.0	5.7	5.7	6.2
SR 4650	6.7	5.3	5.7	6.7	6.3	7.0	6.0	6.3	6.2
XCELERATOR	7.0	6.3	6.7	6.3	6.3	6.0	6.0	6.0	6.2
DLFPS-236/3540	7.0	6.0	6.7	7.0	5.0	6.0	6.3	5.7	6.1
DLFPS-236/3548	7.3	5.3	6.3	7.3	6.0	6.0	6.0	6.0	6.1
PPG-PR 421	7.3	5.3	6.7	6.7	5.7	6.3	6.3	6.0	6.1
RRT	7.7	5.3	5.7	7.0	6.7	6.0	6.3	6.0	6.1
BAR LP 6131	6.3	6.0	6.7	6.7	5.3	5.7	5.3	6.0	6.0
DLFPS-236/3538	6.7	5.7	6.7	6.3	6.0	6.3	5.7	5.7	6.0
DLFPS-236/3550	6.7	6.3	6.7	6.7	5.0	5.3	5.7	6.0	6.0
DLFPS-236/3556	6.3	5.7	5.3	6.3	6.0	7.0	6.0	6.0	6.0
INTENSE	6.7	6.0	5.7	6.7	5.7	6.3	5.7	6.0	6.0
JR-197	7.0	5.3	6.0	6.0	6.3	6.3	6.0	6.0	6.0
LPB-SD-101	6.7	5.3	6.3	6.7	6.0	6.3	6.0	5.7	6.0
NP-2	7.0	5.0	5.3	7.0	6.3	6.7	6.0	6.0	6.0
PHARAOH	7.7	6.3	5.7	6.7	6.0	6.3	5.7	5.7	6.0
PL2	6.7	6.3	5.7	6.3	6.0	6.0	6.0	6.0	6.0
PPG-PR 241	7.0	4.3	6.0	7.0	6.3	5.7	6.3	6.0	6.0
PPG-PR 329	6.7	5.3	5.7	6.7	7.0	6.0	5.7	5.7	6.0
PPG-PR 339	7.0	6.3	6.3	6.3	5.3	5.7	5.7	6.0	6.0
PPG-PR 360	7.7	6.3	6.0	6.7	5.3	5.7	6.0	5.7	6.0
PPG-PR 370	7.3	6.0	6.3	6.7	6.0	5.3	5.7	5.7	6.0
PPG-PR 419	6.7	4.7	5.3	6.7	6.3	6.7	6.0	6.0	6.0
PPG-PR 422	6.7	6.0	5.3	6.3	6.7	6.0	5.7	6.0	6.0
PR-6-15	7.7	5.3	6.0	7.0	6.3	6.0	6.0	5.7	6.0
GRAY HAWK (PST-2FIND)	7.0	6.7	5.7	6.3	5.3	5.7	6.3	5.7	6.0
SEABISCUIT	6.7	6.0	5.7	7.0	6.0	6.0	5.7	5.7	6.0

TABLE 21. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 (CONT'D) 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON, WI 1/
 2017 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	QUALITY RATINGS								MEAN
	COLOR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
UMPQUA	6.3	5.7	5.3	6.7	6.7	6.3	6.0	5.3	6.0	
CPN	6.3	5.3	5.3	6.0	6.7	6.0	6.0	5.7	5.9	
FP2	7.3	5.3	5.7	6.3	6.3	6.7	5.7	5.3	5.9	
MRS�-PR15	7.7	6.0	6.3	6.3	5.3	6.0	5.7	5.3	5.9	
PPG-PR 343	7.7	5.7	6.0	6.7	6.0	5.7	5.7	5.3	5.9	
PPG-PR 385	6.7	5.7	6.0	7.0	6.0	6.3	5.3	5.0	5.9	
O21	7.0	5.3	5.7	6.3	6.7	5.7	5.3	5.7	5.8	
ALLSTAR III	7.3	5.7	6.0	6.7	5.7	5.7	5.7	5.3	5.8	
GO-141	7.3	5.7	6.3	6.7	5.7	5.3	5.3	5.3	5.8	
MAN O WAR	6.3	6.0	5.7	6.3	5.3	6.0	5.7	5.3	5.8	
PPG-PR 371	6.7	5.7	5.3	6.3	6.0	5.3	6.0	5.7	5.8	
PPG-PR 372	7.0	5.3	6.0	6.0	6.3	5.7	5.7	5.3	5.8	
SIGNET	6.3	5.3	5.7	6.7	6.0	5.7	5.7	5.3	5.8	
O23	7.0	5.7	5.0	6.0	6.3	5.7	5.7	5.7	5.7	
BSP-25	8.7	5.7	6.0	6.3	5.3	5.3	5.7	5.7	5.7	
CS-6	8.0	6.0	6.3	6.3	5.0	5.7	5.0	5.3	5.7	
EVOLVE	6.0	5.7	6.3	6.7	5.0	5.3	5.7	5.3	5.7	
GO-142	6.3	5.7	6.0	6.7	5.0	5.0	5.3	6.0	5.7	
LPB-SD-102	6.7	5.7	6.0	6.0	5.7	5.3	5.7	5.7	5.7	
LPB-SD-103	7.3	4.7	5.3	6.0	5.7	5.3	6.7	6.3	5.7	
PST-2EGAD	7.3	6.0	5.7	6.3	5.3	5.3	6.0	5.3	5.7	
ASP0218 (A-6D)	7.7	5.3	5.7	6.3	5.0	6.0	5.3	5.3	5.6	
GRAND SLAM GLD	6.0	5.7	5.7	6.7	4.7	5.7	5.3	5.3	5.6	
LPB-SD-104	8.0	5.7	6.3	6.0	5.0	5.3	5.7	5.3	5.6	
MENSA	7.7	5.7	6.3	6.0	5.0	5.7	5.3	5.3	5.6	
PPG-PR 420	7.3	4.3	5.3	6.7	5.3	6.0	6.0	5.7	5.6	
PST-2MAY	7.3	5.7	6.0	5.7	5.3	5.7	5.7	5.3	5.6	
SAGUARO	7.7	5.0	6.0	6.7	5.0	5.3	5.7	5.3	5.6	
SHIELD (02BS4)	6.0	5.3	5.3	5.7	5.3	6.0	5.7	5.3	5.5	
APR2616	7.3	4.7	6.0	6.0	4.7	5.7	5.7	6.0	5.5	
BAR LP 6117	6.0	6.0	5.7	6.3	4.7	5.0	5.7	5.0	5.5	
DERBY XTREME	7.0	6.3	6.0	6.0	4.7	5.3	5.0	5.0	5.5	
DLFPS-236/3547	6.7	4.3	5.0	6.3	6.0	5.7	5.7	5.3	5.5	
JR-747	7.0	5.0	5.3	6.0	5.7	5.7	5.3	5.7	5.5	
DLFPS-236/3541	7.0	4.7	6.3	6.0	4.7	5.7	5.3	5.3	5.4	
DLFPS-236/3543	7.3	4.7	5.3	6.3	5.0	6.0	5.0	5.3	5.4	
DLFPS-236/3544	7.0	4.7	4.7	6.0	6.0	5.7	5.3	5.3	5.4	
PST-2PDA	6.3	5.7	5.0	7.0	5.0	5.0	5.0	5.3	5.4	
PEPPER II (RAD-PR 103)	8.0	5.0	6.3	6.3	5.0	5.0	5.0	5.3	5.4	
SNX	8.0	4.7	5.7	6.0	5.0	5.7	5.7	5.3	5.4	
ASP0117 (A-PR15)	7.3	4.7	6.0	6.3	5.0	5.0	5.3	5.0	5.3	
BAR LP 6233	5.0	4.3	5.0	6.0	5.7	5.3	5.7	5.3	5.3	
DLFPS-236/3552	7.0	5.7	5.3	6.0	4.7	5.3	5.0	5.3	5.3	
PST-2BDT	7.7	4.3	4.3	6.0	5.0	5.7	5.7	6.0	5.3	
GRAY WOLF (PST-2GAL)	6.3	5.7	5.3	6.0	5.0	5.3	4.7	5.3	5.3	
UF3	6.3	5.0	5.0	5.7	5.0	5.3	5.7	5.3	5.3	
BAR LP 6159	6.7	5.0	5.3	6.0	5.0	5.0	5.3	5.0	5.2	

TABLE 21. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2016 NATIONAL PERENNIAL RYEGRASS TEST AT MADISON, WI 1/ 2017 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	QUALITY RATINGS							MEAN
		MAY	JUN	JUL	AUG	SEP	OCT	NOV	
KARMA	7.0	3.7	5.3	6.0	5.3	6.0	5.3	5.0	5.2
PST-2GTD	7.0	4.3	4.7	7.0	5.0	5.0	5.3	5.0	5.2
O2BS1	7.7	4.0	5.0	5.7	5.7	5.0	5.0	5.3	5.1
APR3060	7.3	4.3	5.3	6.0	4.7	5.3	5.3	5.0	5.1
BAR LP 6164	7.0	5.0	5.0	6.0	5.0	5.3	4.7	5.0	5.1
RAD-PR 112	8.0	5.3	6.3	6.0	4.0	4.3	4.7	5.3	5.1
AMP-R1	7.3	5.3	5.0	5.0	5.0	5.0	4.7	4.7	5.0
BAR LP 6158	7.0	4.7	5.3	5.3	4.7	5.3	4.7	5.0	5.0
BRIGHTSTAR SLT	6.0	4.7	5.0	6.3	4.3	5.0	5.0	5.0	5.0
BSP-17	8.7	4.7	5.7	6.0	4.3	5.0	4.7	5.0	5.0
DLFPS-236/3542	7.0	5.0	5.3	6.0	4.0	5.0	4.3	5.3	5.0
JR-123	6.7	4.3	4.3	6.0	5.0	5.0	5.0	5.0	5.0
MRS�-PR16	8.0	4.7	5.3	5.7	4.7	5.0	4.7	5.0	5.0
ASPO118GL (A-4G)	7.0	4.0	5.0	5.7	4.7	5.0	5.3	4.7	4.9
BAR LP 6162	6.0	5.7	6.0	5.0	4.3	4.3	4.3	4.3	4.9
BAR LP 6165	4.0	3.7	4.0	5.3	4.0	5.3	6.3	5.3	4.9
ASPO116EXT	8.7	3.7	4.0	5.7	4.7	4.7	5.0	5.0	4.7
BWH	9.0	4.7	5.0	5.0	4.0	4.3	4.7	5.0	4.7
GO-143	7.0	4.0	5.0	5.3	4.3	5.0	4.0	4.3	4.6
LINN	3.0	2.3	2.3	3.3	3.0	4.3	4.0	4.3	3.4
LSD VALUE	1.1	5.9	5.8	5.5	1.7	2.0	1.4	1.5	2.5
C.V. (%)	9.4	25.1	22.1	17.5	16.5	15.4	12.6	11.4	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.

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LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY