NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association, one member from the Sports Turf Managers Association of America (STMA), and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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A Guide to NTEP Turfgrass Ratings

Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, *http://www.ntep.org*). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at *http://www.ntep.org/pdf/grandmean.mem.pdf.*

Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at *http://www.ntep.org/reports/ratings.htm*.

2016 NATIONAL PERENNIAL RYEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2017-2021

State	Location	Code
California	Fresno	CA7
Colorado	Ft. Collins (Salt Tolerance)	CO1
Connecticut	Storrs	CT1
Illinois	Urbana	IL1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Kentucky	Lexington (Divot Recovery)	KY2
Massachusetts	Amherst	MA1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
North Dakota	Fargo	ND1
Oregon	Corvallis	OR1
Oregon	Corvallis (Traffic)	OR2
Utah	Logan	UT1
Utah	Logan (Drought)	UT2
Virginia	Blacksburg	VA1
Wisconsin	Madison (Traffic)	WI1

2016 NATIONAL PERENNIAL RYEGRASS TEST
Entries and Sponsors

Entry	Name	Sponsor
1	021	The Scotts Miracle-Gro Co.
*2	Hatrick (BSP-17)	Bailey Seed & Grain LLC
*3	Fireball (BWH)	Bailey Seed & Grain LLC
*4	Tee-Me-Up (BSP-25)	Bailey Seed & Grain LLC
*5	Savant	Columbia Seeds
6	LPB-SD-105	Ledeboer Seed LLC
*7	Saguaro	Columbia Seeds
8	LPB-SD-104	Ledeboer Seed LLC
*9	Mensa	Ledeboer Seed LLC
10	LPB-SD-101	Ledeboer Seed LLC
11	LPB-SD-102	Ledeboer Seed LLC
12	LPB-SD-103	Ledeboer Seed LLC
13	DLFPS-236/3540	DLF Pickseed USA, Inc
*14	Mightier (DLFPS-236/3542)	DLF Pickseed USA, Inc
*15	Gator Fore (DLFPS-236/3544)	DLF Pickseed USA, Inc
*16	Intense	Landmark Turf & NS
*17	Xcelerator	Landmark Turf & NS
*18	Spike GLS (UF3)	Landmark Turf & NS
19	JR-123	Jacklin Seed by Simplot
20	JR-747	Jacklin Seed by Simplot
21	JR-888	Jacklin Seed by Simplot
*22	AllStar Fore (DLFPS-236/3541)	DLF Pickseed USA, Inc
*23	SR 4700 (DLFPS-236/3543)	DLF Pickseed USA, Inc
*24	Zoom 2 (DLFPS-236/3545)	DLF Pickseed USA, Inc
*25	Evolve	SiteOne Landscape Supply
26	MRSL-PR16	SiteOne Landscape Supply
27	PL2	SiteOne Landscape Supply
28	MRSL-PR15	SiteOne Landscape Supply
*29	Nexus GT (SNX)	Smith Seed Services
*30	Signet	Smith Seed Services
*31	Shield (02BS4)	Smith Seed Services
32	CS-6	Columbia Seeds
33	DLFPS-236/3556	DLF Pickseed USA, Inc
*34	ASP0116EXT	Allied Seed LLC
*35	ASP0117 (A-PR15)	Allied Seed LLC
*36	ASP0118GL (A-4G)	Allied Seed LLC
*37	ASP0218 (A-6D)	Allied Seed LLC
38	NP-3	Pennington Seed
39	NP-2	Pennington Seed
40	APR2616	Pennington Seed
41	GO-141	Grassland Oregon
*42	Belize 2 (GO-142)	Grassland Oregon
*43	Cayman (GO-143)	Grassland Oregon
44	APR2612	ProSeeds Marketing
45	APR3060	Pennington Seed
*46	Green Supreme+ (AMP-R1)	AMPAC Seed Co.
47	DLFPS-236/3546	DLF Pickseed USA, Inc
*48	Mystique (DLFPS-236/3547)	DLF Pickseed USA, Inc
*49	Gator Cinco (DLFPS-236/3548)	DLF Pickseed USA, Inc
50	PR-6-15	Columbia Seeds
51	DLFPS-236/3550	DLF Pickseed USA, Inc
52	DLFPS-236/3552	DLF Pickseed USA, Inc
*53	Catalyst (023)	Brett Young Seeds
*54	Paragon 2 GLR (FP2)	Turf Merchants, Inc.
*55	Sunburst (02BS2)	Brett Young Seeds
*56	Alloy (RRT)	The Scotts Co.
*57	Slider LS (PPG-PR 241)	Mountain View Seeds
*58	Fastball 3GL (PPG-PR 329)	Mountain View Seeds
*59	Paradox GLR (PPG-PR 331)	Turf Merchants, Inc
*60	Derby Xtreme	Standard
*61	Apple 3GL (PPG-PR 339)	Mountain View Seeds
*62	Slugger 3GL (PPG-PR 343)	Mountain View Seeds
63	PPG-PR 360	Integra Turf
64	PPG-PR 367	Mountain View Seeds
65	PPG-PR 370	Lewis Seed Company
*66	Elektra GLR (PPG-PR 371)	Turf Merchants, Inc.
67	PPG-PR 372	Columbia Seeds
68	PPG-PR 385	Mountain View Seeds
*69	Homerun LS (PPG-PR 419)	Mountain View Seeds
*70	Superstar GL (PPG-PR 420)	Mountain View Seeds
*71	Palmer Supreme (PPG-PR 421)	Proseeds Marketing
72	PPG-PR 422	Columbia Seeds
*73	Portfolio (PPG-PR 423)	Columbia Seeds & Barenbrug USA
*74	Stellar 4GL (PPG-PR 424)	Mountain View Seeds
*75	Karma	Standard
*76	SR 4650	Standard
*77	Helios (DLFPS-236/3538)	DLF Pickseed USA, Inc.
*78	Grand Slam GLD	Standard
*79	Furlong (LTP-FCB)	Lebanon Seaboard Corp.
80	BAR LP 6117	Barenbrug USA
81	BAR LP 6131	Barenbrug USA
82	BAR LP 6159	Barenbrug USA
83	BAR LP 6233	Barenbrug USA
84	PST-2FOXY	Pure-Seed Testing, Inc.
*85	Silver Sport (PST-2CRP)	Rose Agri-Seed, Inc.
86	PST-2EGAD	Pure-Seed Testing, Inc
*87	Gray Hawk (PST-2FIND)	Pure-Seed Testing, Inc.
*88	Ivy (PST-2GTD)	The Scotts Company
*89	Starbright GLX (PST-2BDT)	Integrated Seed Growers
90	PST-2MAY	Pure-Seed Testing, Inc.
*91	Gray Wolf (PST-2GAL)	Rose Agri-Seed, Inc.
92	PST-2PDA	Pure-Seed Testing, Inc.
*93	Swift (PST-2A2)	Clearwater Seed
94	DLFPS-236/3553	DLF Pickseed USA, Inc.
*95	Fiesta Cinco (DLFPS-236/3554)	DLF Pickseed USA, Inc.
96	PR-5-16	Columbia Seeds
97	BAR LP 6158	Barenbrug USA
98	BAR LP 6162	Barenbrug USA
99	BAR LP 6164	Barenbrug USA
100	BAR LP 6165	Barenbrug USA
*101	Overdrive 5G	Burlingham Seeds, LLC.
102	02BS1	ProSeeds Marketing
103	CPN	Columbia Seeds
*104	Revenge 2GLX (JR-197)	Barenbrug USA
105	DLFPS-238/3014	DLF Pickseed USA, Inc.
*106	Pepper II (RAD-PR 103)	Lewis Seed Company
107	RAD-PR 112	Bailey Seed
*108	UMPQUA	Vista Seed Partners LLC
*109	Seabiscuit	Lebanon Seaboard Corp.
*110	Man O'War	Lebanon Seaboard Corp.
*111	Pharaoh	Lebanon Seaboard Corp.
*112	Allstar III	Standard
*113	Brightstar SLT	Standard
*114	Linn	Standard

*COMMERCIALLY AVAILABLE IN 2022 IN THE US OR ANY OTHER COUNTRY

TABLE A. 2017-2021 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	3.1-3.5	TO PREVENT DORMANCY
CO1	-	-	-	-	-	-	-	-
CT1	SANDY LOAM	6.1-6.5	61-150	151-240	-	FULL SUN	1.1-1.5	TO PREVENT STRESS
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
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
KS1	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	0.0-0.5	ONLY DURING SEVERE STRESS
KY1	SILT LOAM AND SILT	5.6-6.0	451+	241-375	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
KY2	SILT LOAM AND SILT	5.6-6.0	451+	241-375	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MA1	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
MI1	-	-	-	-	-	-	-	-
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
MO1	-	-	-	-	-	-	-	-
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
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
NJ2	SANDY LOAM	6.1-6.5	271-450	241-375	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
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
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
UT1	SILT LOAM AND SILT	7.1-7.5	0-60	151-240	-	FULL SUN	2.6-3.0	TO PREVENT STRESS
UT2	SILT LOAM AND SILT	7.1-7.5	0-60	151-240	-	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
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
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
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY

TABLE B. LOCATIONS AND DATA COLLECTED IN 2017-2021

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	WEAR TOLERANCE
CA7	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CO1																
CT1				X	X	X	X	X	X	X			X	X		
IA1				X	X	X	X	X	X	X			X	X		
IL1				X	X	X	X	X	X	X			X	X		
KS1				X	X	X	X	X	X	X			X	X		
KY1			X	X	X	X	X	X	X	X	X					
KY2																
MA1				X	X	X	X	X	X	X	X	X		X		X
MD1					X	X	X	X	X	X	X					
MI1					X	X	X	X	X	X			X	X		
MN1					X	X	X	X	X	X			X			
MO1				X	X	X	X	X	X	X	X		X			
ND1																
NE1				X	X	X	X	X	X	X			X	X		
NJ2				X	X	X	X	X	X	X	X		X			X
OR1	X	X	X	X	X	X	X	X	X	X	X	X	X			
OR2	X	X	X	X	X	X	X	X	X	X	X	X	X			
UT1				X	X	X	X	X	X	X			X	X		
UT2				X	X	X	X	X	X	X			X	X		
VA1				X	X	X	X	X	X	X	X					
VA2				X	X	X	X	X	X	X	X	X				
WI1				X	X	X	X	X	X	X	X		X			

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2017-2021

LOCATION	SEEDLING VIGOR	SPRING DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	STEM RUST	RED THREAD	BROWN PATCH WARM TEMP	CROWN RUST	GRAY LEAF SPOT	PINK SNOW MOLD	FALL COLOR NOVEMBER	SEEDHEAD RATINGS	MOWING QUALITY
CA7	X													
CO1														
CT1														
IA1	X													
IL1												X		
KS1	X													
KY1	X													
KY2														
MA1													X	X
MD1							X							
MI1														
MN1								X	X		X			
MO1	X		X		X	X	X	X						
ND1			X	X	X									
NE1														
NJ2									X	X				
OR1														
OR2														
UT1											X			
UT2											X			
VA1			X		X									
VA2		X	X											X
WI1														

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2017-2021

LOCATION	PERCENT ESTABLISH-MENT	QUALITY DECEMBER 2016	WINTER KILL RATINGS	PERCENT POA ANNUA	PERCENT COVER TRAFFIC	PERCENT ESTABLISHMENT RATINGS SEPTEMBER 2016	OCTOBER 2016	SUMMER 2017	FALL 2017	WEAR TOLERANCE RATINGS MAY (2018, 2020 AND 2021)	JULY	OCTOBER
CA7		X										
* CO1												
CT1	X											
IA1												
IL1			X									
KS1												
KY1												
* KY2												
MA1	X									X	X	X
MD1												
MI1	X											
MN1			X									
MO1	X											
ND1								X	X			
NE1	X											
NJ2				X	X							
OR1												
OR2												
UT1						X	X					
UT2						X	X					
VA1												
* VA2												
WI1	X											

* MORE DATA FOR CO1, KY2 AND VA2 IN TABLE 26, 25 AND 22.

TABLE 1. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2017 DATA

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

NAME	# ENTRY	NJ2	MN1	CT1	MEAN	NAME	# ENTRY	NJ2	MN1	CT1	MEAN
NP-2	39	6.8	6.0	7.3	6.7	*APPLE 3GL (PPG-PR 339)	61	5.7	5.3	6.8	6.0
*FURLONG (LTP-FCB)	79	6.7	5.9	7.3	6.6	JR-123	19	5.8	5.3	6.7	6.0
*STELLAR 4GL (PPG-PR 424)	74	6.6	5.9	7.3	6.6	DLFPS-236/3553	94	5.7	5.3	6.8	6.0
*PORTFOLIO (PPG-PR 423)	73	6.5	5.8	7.2	6.5	PR-5-16	96	5.7	5.3	6.8	5.9
*PARADOX GLR (PPG-PR 331)	59	6.4	5.8	7.2	6.5	*ZOOM 2 (DLFPS-236/3545)	24	5.7	5.3	6.8	5.9
DLFPS-236/3556	33	6.6	5.7	7.1	6.5	APR2616	40	5.7	5.3	6.7	5.9
*CATALYST (023)	53	6.5	5.8	7.1	6.5	*GRAY HAWK (PST-2FIND)	87	5.7	5.3	6.8	5.9
PPG-PR 372	67	6.4	5.7	7.2	6.4	*HELIOS (DLFPS-236/3538)	77	5.6	5.3	6.8	5.9
PL2	27	6.4	5.7	7.1	6.4	PPG-PR 367	64	5.6	5.2	6.7	5.9
DLFPS-236/3546	47	6.5	5.7	7.1	6.4	*UMPQUA	108	5.5	5.2	6.7	5.8
*HOMERUN LS (PPG-PR 419)	69	6.3	5.7	7.1	6.4	DLFPS-236/3550	51	5.6	5.2	6.7	5.8
*XCELERATOR	17	6.3	5.6	7.1	6.3	*PHARAOH	111	5.5	5.2	6.7	5.8
NP-3	38	6.3	5.6	7.0	6.3	*GRAY WOLF (PST-2GAL)	91	5.5	5.2	6.7	5.8
*PALMER SUPREME (PPG-PR 421)	71	6.2	5.6	7.1	6.3	021	1	5.5	5.2	6.7	5.8
*SUPERSTAR GL (PPG-PR 420)	70	6.2	5.6	7.1	6.3	*MAN O WAR	110	5.5	5.2	6.7	5.8
*SR 4700 (DLFPS-236/3543)	23	6.2	5.6	7.0	6.3	*GATOR FORE (DLFPS-236/3544)	15	5.4	5.1	6.7	5.7
PPG-PR 360	63	6.2	5.6	7.0	6.3	*SEABISCUIT	109	5.4	5.1	6.6	5.7
*MYSTIQUE (DLFPS-236/3547)	48	6.2	5.6	7.0	6.2	*GRAND SLAM GLD	78	5.3	5.1	6.6	5.7
DLFPS-236/3540	13	6.1	5.6	7.0	6.2	PST-2FOXY	84	5.3	5.1	6.6	5.7
*ALLSTAR FORE (DLFPS-236/3541)	22	6.2	5.5	6.9	6.2	DLFPS-236/3552	52	5.3	5.1	6.6	5.7
PPG-PR 422	72	6.1	5.6	7.0	6.2	*DERBY XTREME	60	5.4	5.0	6.5	5.6
*FIESTA CINCO (DLFPS-236/3554)	95	5.9	5.6	7.1	6.2	*STARBRIGHT GLX (PST-2BDT)	89	5.4	5.0	6.5	5.6
*FASTBALL 3GL (PPG-PR 329)	58	6.1	5.5	6.9	6.2	PPG-PR 385	68	5.3	5.0	6.5	5.6
*OVERDRIVE 5G	101	6.0	5.5	6.9	6.1	02BS1	102	5.2	5.0	6.5	5.6
*PARAGON 2 GLR (FP2)	54	6.0	5.5	7.0	6.1	LPB-SD-102	11	5.2	5.0	6.5	5.6
PR-6-15	50	6.0	5.5	6.9	6.1	*KARMA	75	5.4	4.9	6.4	5.6
*SIGNET	30	6.0	5.5	6.9	6.1	*ASP0117 (A-PR15)	35	5.2	5.0	6.5	5.6
PPG-PR 370	65	5.9	5.5	6.9	6.1	PST-2PDA	92	5.2	4.9	6.5	5.5
*ALLOY (RRT)	56	6.0	5.5	6.9	6.1	PST-2EGAD	86	5.1	5.0	6.5	5.5
CPN	103	5.9	5.5	6.9	6.1	PST-2MAY	90	5.1	4.9	6.5	5.5
*SLUGGER 3GL (PPG-PR 343)	62	5.9	5.4	6.9	6.1	*IVY (PST-2GTD)	88	5.0	4.9	6.5	5.5
*SHIELD (02BS4)	31	5.9	5.4	6.9	6.1	*SAGUARO	7	5.1	4.8	6.3	5.4
*SLIDER LS (PPG-PR 241)	57	5.9	5.4	6.9	6.1	*MENSA	9	5.0	4.8	6.4	5.4
*SUNBURST (02BS2)	55	5.9	5.4	6.9	6.1	RAD-PR 112	107	4.9	4.8	6.3	5.4
*REVENGE 2GLX (JR-197)	104	5.9	5.4	6.8	6.1	JR-888	21	4.9	4.8	6.3	5.3
*SR 4650	76	5.9	5.4	6.8	6.0	APR3060	45	4.9	4.7	6.3	5.3
*INTENSE	16	5.9	5.4	6.8	6.0	BAR LP 6164	99	4.7	4.7	6.3	5.3
*SILVER SPORT (PST-2CRP)	85	5.8	5.4	6.9	6.0	CS-6	32	4.8	4.7	6.2	5.2
*MIGHTIER (DLFPS-236/3542)	14	5.8	5.4	6.9	6.0	*ALLSTAR III	112	4.8	4.6	6.2	5.2
*SWIFT (PST-2A2)	93	5.9	5.4	6.8	6.0	*ASP0118GL (A-4G)	36	4.7	4.6	6.2	5.2
*SPIKE GLS (UF3)	18	5.9	5.3	6.8	6.0	LPB-SD-104	8	4.9	4.6	6.1	5.2
*GATOR CINCO (DLFPS-236/3548)	49	5.8	5.4	6.8	6.0	*HATRICK (BSP-17)	2	4.8	4.6	6.2	5.2
*ELEKTRA GLR (PPG-PR 371)	66	5.7	5.4	6.9	6.0	*EVOLVE	25	4.8	4.6	6.2	5.2

TABLE 1. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2017 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	# ENTRY	NJ2	MN1	CT1	MEAN
LPB-SD-103	12	4.7	4.6	6.2	5.2
*PEPPER 11 (RAD-PR 103)	106	4.5	4.6	6.2	5.1
BAR LP 6159	82	4.6	4.6	6.2	5.1
JR-747	20	4.7	4.5	6.1	5.1
LPB-SD-101	10	4.5	4.6	6.2	5.1
*ASP0218 (A-6D)	37	4.6	4.6	6.2	5.1
*ASP0116EXT	34	4.5	4.5	6.2	5.1
MRSL-PR15	28	4.5	4.5	6.1	5.0
MRSL-PR16	26	4.5	4.5	6.1	5.0
LPB-SD-105	6	4.5	4.5	6.1	5.0
BAR LP 6233	83	4.5	4.5	6.1	5.0
BAR LP 6117	80	4.3	4.5	6.1	5.0
*BELIZE 2 (GO-142)	42	4.5	4.4	6.0	5.0
GO-141	41	4.4	4.4	6.1	5.0
BAR LP 6158	97	4.5	4.4	6.0	5.0
*GREEN SUPREME+ (AMP-R1)	46	4.5	4.4	6.0	4.9
*NEXUS GT (SNX)	29	4.3	4.4	6.0	4.9
APR2612	44	4.3	4.3	6.0	4.8
*SAVANT	5	4.1	4.4	6.1	4.8
*CAYMAN (GO-143)	43	4.2	4.3	5.9	4.8
*TEE-ME-UP (BSP-25)	4	4.1	4.3	5.9	4.8
*FIREBALL (BWH)	3	3.9	4.1	5.8	4.6
BAR LP 6131	81	3.7	4.1	5.8	4.5
*BRIGHTSTAR SLT	113	3.8	4.0	5.7	4.5
DLFPS-238/3014	105	3.3	3.7	5.4	4.2
BAR LP 6165	100	3.3	3.7	5.5	4.2
BAR LP 6162	98	2.4	3.2	5.0	3.5
*LINN	114	0.7	1.6	3.4	1.9
LSD VALUE		0.9	0.9	0.9	0.9
C.V. (%)		10.6	11.2	8.6	10.0

* COMMERCIALLY AVAILABLE IN THE USA IN 2018

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 2. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA

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

NAME	KY1	WI1	NE1	OR1	MI1	UT1	IL1	MO1	VA1	CA7	IA1	MEAN
FIESTA CINCO (DLFPS-236/3554)	7.1	6.2	5.5	7.6	5.8	5.9	7.6	4.4	6.8	6.6	6.7	6.6
CPN	6.9	6.0	5.2	7.3	5.5	5.7	7.4	4.1	6.5	6.2	6.4	6.4
PR-5-16	6.9	6.0	5.2	7.3	5.6	5.7	7.4	4.1	6.5	6.3	6.5	6.3
GRAY WOLF (PST-2GAL)	6.9	5.9	5.2	7.3	5.5	5.7	7.4	4.1	6.5	6.3	6.5	6.3
OVERDRIVE 5G	6.9	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.2	6.3	6.3
UMPQUA	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.3	6.4	6.3
DLFPS-236/3553	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.2	6.3	6.3
PHARAOH	6.8	5.9	5.1	7.2	5.4	5.6	7.3	4.0	6.4	6.2	6.4	6.2
SWIFT (PST-2A2)	6.8	5.9	5.1	7.2	5.4	5.5	7.2	3.9	6.3	6.1	6.2	6.2
REVENGE 2GLX (JR-197)	6.8	5.8	5.1	7.1	5.4	5.5	7.2	3.9	6.3	6.1	6.2	6.2
PARADOX GLR (PPG-PR 331)	7.1	6.1	5.4	7.4	5.7	5.8	7.5	4.2	6.5	6.3	6.4	6.2
STELLAR 4GL (PPG-PR 424)	7.1	6.2	5.4	7.4	5.7	5.8	7.5	4.2	6.5	6.2	6.4	6.2
PST-2MAY	6.7	5.8	5.1	7.2	5.4	5.6	7.3	4.0	6.5	6.3	6.5	6.2
SEABISCUIT	6.7	5.8	5.1	7.2	5.4	5.5	7.2	4.0	6.4	6.2	6.4	6.2
PPG-PR 372	7.0	6.1	5.4	7.4	5.6	5.8	7.5	4.1	6.5	6.3	6.4	6.2
HOMERUN LS (PPG-PR 419)	7.0	6.1	5.4	7.4	5.6	5.8	7.5	4.1	6.5	6.3	6.4	6.2
ELEKTRA GLR (PPG-PR 371)	6.9	6.0	5.3	7.4	5.6	5.7	7.4	4.2	6.6	6.4	6.5	6.2
FURLONG (LTP-FCB)	7.1	6.1	5.4	7.4	5.6	5.7	7.4	4.1	6.5	6.2	6.3	6.2
MAN O WAR	6.7	5.8	5.1	7.1	5.4	5.5	7.2	3.9	6.3	6.1	6.3	6.2
SUPERSTAR GL (PPG-PR 420)	7.0	6.1	5.3	7.4	5.6	5.7	7.4	4.1	6.5	6.3	6.4	6.2
SILVER SPORT (PST-2CRP)	6.9	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.3	6.4	6.1
PALMER SUPREME (PPG-PR 421)	7.0	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.2	6.4	6.1
DLFPS-236/3540	7.0	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.2	6.4	6.1
02BS1	6.7	5.7	5.0	7.1	5.4	5.5	7.2	3.9	6.3	6.2	6.3	6.1
NP-2	7.1	6.1	5.3	7.4	5.6	5.7	7.4	4.1	6.4	6.1	6.2	6.1
MIGHTIER (DLFPS-236/3542)	6.9	6.0	5.2	7.3	5.6	5.7	7.4	4.1	6.5	6.3	6.4	6.1
PPG-PR 370	6.9	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.3	6.4	6.1
SLUGGER 3GL (PPG-PR 343)	6.9	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.3	6.4	6.1
PARAGON 2 GLR (FP2)	6.9	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.2	6.4	6.1
PPG-PR 422	6.9	6.0	5.3	7.3	5.6	5.7	7.4	4.1	6.5	6.2	6.4	6.1
PEPPER II (RAD-PR 103)	6.6	5.7	5.0	7.1	5.4	5.5	7.2	4.0	6.4	6.3	6.5	6.1
XCELERATOR	6.9	6.0	5.3	7.3	5.5	5.7	7.4	4.0	6.4	6.2	6.3	6.1
GATOR FORE (DLFPS-236/3544)	6.8	5.9	5.2	7.3	5.5	5.6	7.3	4.1	6.5	6.3	6.5	6.1
APPLE 3GL (PPG-PR 339)	6.9	5.9	5.2	7.3	5.5	5.6	7.3	4.1	6.5	6.2	6.4	6.1
HELIOS (DLFPS-236/3538)	6.8	5.9	5.2	7.3	5.5	5.6	7.3	4.1	6.5	6.3	6.4	6.1
BAR LP 6164	6.6	5.7	5.0	7.1	5.3	5.5	7.2	4.0	6.4	6.3	6.4	6.1
ZOOM 2 (DLFPS-236/3545)	6.8	5.9	5.2	7.3	5.5	5.6	7.3	4.1	6.5	6.3	6.4	6.1
PST-2EGAD	6.7	5.8	5.1	7.2	5.5	5.6	7.3	4.1	6.5	6.4	6.5	6.1
DLFPS-236/3552	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.1	6.5	6.3	6.5	6.1
PORTFOLIO (PPG-PR 423)	7.0	6.0	5.3	7.3	5.5	5.6	7.3	4.0	6.4	6.1	6.2	6.1
SR 4700 (DLFPS-236/3543)	6.9	6.0	5.2	7.3	5.5	5.6	7.3	4.0	6.4	6.1	6.3	6.1
IVY (PST-2GTD)	6.7	5.8	5.1	7.2	5.5	5.6	7.3	4.1	6.5	6.3	6.5	6.1
GRAY HAWK (PST-2FIND)	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.2	6.4	6.1

TABLE 2.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA

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

NAME	KY1	WI1	NE1	OR1	MI1	UT1	IL1	MO1	VA1	CA7	IA1	MEAN
PL2	6.9	6.0	5.2	7.3	5.5	5.6	7.3	4.0	6.4	6.1	6.2	6.0
PST-2PDA	6.6	5.6	4.9	7.0	5.3	5.4	7.1	3.8	6.2	6.0	6.2	6.0
NP-3	6.9	6.0	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.1	6.2	6.0
RAD-PR 112	6.5	5.6	4.9	7.0	5.3	5.4	7.1	3.9	6.3	6.1	6.3	6.0
PST-2FOXY	6.7	5.8	5.1	7.2	5.4	5.6	7.3	4.0	6.4	6.3	6.4	6.0
23	6.9	6.0	5.2	7.2	5.5	5.6	7.3	4.0	6.3	6.0	6.2	6.0
SUNBURST (02BS2)	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.1	6.3	6.0
ALLOY (RRT)	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.1	6.3	6.0
PR-6-15	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.1	6.3	6.0
MYSTIQUE (DLFPS-236/3547)	6.9	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.1	6.2	6.0
GATOR CINCO (DLFPS-236/3548)	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.2	6.3	6.0
SLIDER LS (PPG-PR 241)	6.8	5.9	5.2	7.2	5.5	5.6	7.3	4.0	6.4	6.1	6.3	6.0
021	6.8	5.8	5.1	7.2	5.4	5.5	7.3	4.0	6.4	6.2	6.3	6.0
PPG-PR 367	6.8	5.8	5.1	7.2	5.4	5.5	7.2	4.0	6.4	6.2	6.3	6.0
SAVANT	6.5	5.6	5.0	7.1	5.4	5.5	7.2	4.0	6.5	6.4	6.6	6.0
GRAND SLAM GLD	6.7	5.8	5.1	7.2	5.4	5.5	7.2	4.0	6.4	6.2	6.4	6.0
STARBRIGHT GLX (PST-2BDT)	6.5	5.6	4.9	6.9	5.2	5.3	7.0	3.7	6.1	5.9	6.1	6.0
DLFPS-236/3550	6.7	5.8	5.1	7.2	5.4	5.5	7.2	4.0	6.4	6.2	6.3	6.0
SHIELD (02BS4)	6.8	5.9	5.1	7.2	5.4	5.5	7.2	3.9	6.3	6.1	6.2	6.0
FASTBALL 3GL (PPG-PR 329)	6.8	5.9	5.1	7.2	5.4	5.5	7.2	3.9	6.3	6.1	6.2	6.0
PPG-PR 360	6.8	5.9	5.1	7.2	5.4	5.5	7.2	3.9	6.3	6.0	6.2	6.0
LPB-SD-102	6.7	5.8	5.0	7.1	5.4	5.5	7.2	4.0	6.4	6.2	6.3	6.0
BAR LP 6117	6.5	5.6	5.0	7.1	5.3	5.5	7.2	4.0	6.4	6.3	6.5	5.9
SIGNET	6.8	5.8	5.1	7.1	5.4	5.5	7.2	3.9	6.3	6.0	6.1	5.9
APR2616	6.7	5.8	5.1	7.1	5.4	5.5	7.2	3.9	6.3	6.0	6.2	5.9
SR 4650	6.7	5.8	5.1	7.1	5.4	5.5	7.2	3.9	6.3	6.0	6.1	5.9
DLFPS-236/3546	6.8	5.9	5.1	7.1	5.4	5.5	7.2	3.8	6.2	5.9	6.0	5.9
DLFPS-236/3556	6.8	5.9	5.1	7.1	5.4	5.5	7.2	3.8	6.2	5.9	6.0	5.9
LPB-SD-101	6.5	5.6	4.9	7.0	5.3	5.4	7.1	3.9	6.3	6.2	6.4	5.9
ASP0116EXT	6.5	5.6	4.9	7.0	5.3	5.4	7.1	3.9	6.3	6.2	6.4	5.9
ALLSTAR FORE (DLFPS-236/3541)	6.8	5.8	5.1	7.1	5.3	5.4	7.1	3.8	6.2	5.9	6.1	5.9
INTENSE	6.7	5.8	5.0	7.1	5.3	5.4	7.1	3.8	6.2	6.0	6.1	5.9
PPG-PR 385	6.6	5.7	5.0	7.0	5.3	5.4	7.1	3.8	6.2	6.1	6.2	5.9
JR-123	6.7	5.7	5.0	7.0	5.3	5.4	7.1	3.8	6.2	6.0	6.1	5.8
BAR LP 6159	6.5	5.6	4.9	7.0	5.2	5.4	7.1	3.9	6.3	6.2	6.3	5.8
BAR LP 6131	6.3	5.4	4.8	7.0	5.2	5.3	7.1	3.9	6.4	6.3	6.5	5.8
ASP0117 (A-PR15)	6.6	5.7	4.9	7.0	5.3	5.4	7.1	3.8	6.2	6.0	6.2	5.8
JR-888	6.5	5.6	4.9	7.0	5.2	5.4	7.1	3.8	6.3	6.1	6.3	5.8
NEXUS GT (SNX)	6.4	5.5	4.8	7.0	5.2	5.3	7.1	3.9	6.3	6.2	6.4	5.8
ASP0118GL (A-4G)	6.5	5.6	4.9	7.0	5.2	5.4	7.1	3.8	6.3	6.1	6.3	5.8
APR3060	6.5	5.6	4.9	7.0	5.2	5.4	7.1	3.8	6.2	6.1	6.2	5.8
MRSL-PR16	6.4	5.5	4.8	6.9	5.2	5.3	7.0	3.8	6.3	6.1	6.3	5.8
DERBY XTREME	6.6	5.6	4.9	7.0	5.2	5.3	7.1	3.8	6.2	6.0	6.1	5.8
ALLSTAR III	6.3	5.4	4.7	6.8	5.0	5.1	6.8	3.6	6.0	5.8	6.0	5.8

TABLE 2.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA

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

NAME	KY1	WI1	NE1	OR1	MI1	UT1	IL1	MO1	VA1	CA7	IA1	MEAN
SPIKE GLS (UF3)	6.6	5.7	5.0	7.0	5.2	5.3	7.0	3.7	6.1	5.9	6.0	5.8
GO-141	6.4	5.5	4.8	6.9	5.2	5.3	7.0	3.8	6.2	6.1	6.3	5.8
MENSA	6.5	5.6	4.9	6.9	5.2	5.3	7.0	3.8	6.2	6.0	6.2	5.8
ASP0218 (A-6D)	6.4	5.5	4.8	6.9	5.2	5.3	7.0	3.8	6.2	6.1	6.2	5.8
LPB-SD-105	6.4	5.5	4.8	6.9	5.1	5.3	7.0	3.8	6.2	6.1	6.2	5.7
CS-6	6.4	5.5	4.8	6.9	5.2	5.3	7.0	3.7	6.2	6.0	6.2	5.7
BAR LP 6158	6.2	5.3	4.6	6.7	5.0	5.1	6.8	3.6	6.0	5.9	6.0	5.7
BAR LP 6233	6.4	5.5	4.8	6.9	5.1	5.3	7.0	3.7	6.2	6.1	6.2	5.7
MRSL-PR15	6.4	5.5	4.8	6.9	5.1	5.3	7.0	3.7	6.2	6.0	6.2	5.7
SAGUARO	6.5	5.5	4.8	6.9	5.1	5.3	7.0	3.7	6.1	5.9	6.1	5.7
APR2612	6.3	5.4	4.7	6.8	5.1	5.2	6.9	3.7	6.1	6.0	6.2	5.7
BRIGHTSTAR SLT	6.2	5.2	4.6	6.7	5.0	5.1	6.8	3.7	6.1	6.0	6.2	5.7
EVOLVE	6.4	5.5	4.8	6.8	5.1	5.2	6.9	3.7	6.1	5.9	6.1	5.7
TEE-ME-UP (BSP-25)	6.3	5.4	4.7	6.8	5.1	5.2	6.9	3.7	6.1	6.1	6.2	5.7
LPB-SD-103	6.4	5.4	4.7	6.8	5.1	5.2	6.9	3.7	6.1	5.9	6.1	5.7
HATRICK (BSP-17)	6.3	5.4	4.7	6.8	5.1	5.2	6.9	3.7	6.1	5.9	6.1	5.7
KARMA	6.4	5.5	4.8	6.8	5.1	5.2	6.9	3.6	6.0	5.8	5.9	5.6
CAYMAN (GO-143)	6.2	5.3	4.7	6.8	5.0	5.2	6.9	3.7	6.1	6.0	6.1	5.6
BELIZE 2 (GO-142)	6.3	5.3	4.7	6.8	5.0	5.1	6.8	3.6	6.0	5.9	6.1	5.6
FIREBALL (BWH)	6.2	5.3	4.6	6.7	5.0	5.1	6.8	3.6	6.1	6.0	6.2	5.6
BAR LP 6165	6.0	5.1	4.5	6.7	4.9	5.1	6.8	3.6	6.1	6.1	6.2	5.6
GREEN SUPREME+ (AMP-R1)	6.2	5.3	4.6	6.7	5.0	5.1	6.8	3.6	6.0	5.9	6.0	5.6
DLFPS-238/3014	6.0	5.1	4.5	6.6	4.9	5.0	6.7	3.6	6.0	6.0	6.2	5.6
JR-747	6.2	5.3	4.6	6.7	4.9	5.0	6.8	3.5	5.9	5.7	5.9	5.5
LPB-SD-104	6.2	5.3	4.6	6.7	4.9	5.0	6.7	3.5	5.9	5.7	5.9	5.5
BAR LP 6162	5.8	4.9	4.3	6.5	4.8	4.9	6.6	3.5	6.0	6.1	6.2	5.4
LINN	4.3	3.4	2.8	5.0	3.3	3.4	5.1	2.0	4.5	4.6	4.8	3.9
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	8.5	9.8	11.2	8.0	10.6	10.3	7.9	14.5	8.9	9.2	9.0	9.5

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 3. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2018 DATA

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

NAME	# ENTRY	CT1	NJ2	MI1	MN1	NE1	UT1	OR1	MEAN
* FURLONG (LTP-FCB)	79	6.7	6.2	6.6	5.9	5.1	6.4	6.7	6.2
PR-6-15	50	6.5	5.7	6.5	5.7	5.1	6.3	6.6	6.1
DLFPS-236/3546	47	6.5	6.0	6.4	5.6	5.0	6.3	6.6	6.1
* SR 4700 (DLFPS-236/3543)	23	6.5	6.1	6.4	5.6	4.9	6.3	6.5	6.1
* FIESTA CINCO (DLFPS-236/3554)	95	6.5	6.1	6.3	5.3	4.9	6.3	6.5	6.0
* STELLAR 4GL (PPG-PR 424)	74	6.5	5.5	6.5	5.6	5.1	6.4	6.7	6.0
PORTFOLIO (PPG-PR 423)	73	6.5	5.9	6.4	5.6	5.0	6.3	6.6	6.0
* PALMER SUPREME (PPG-PR 421)	71	6.5	5.8	6.5	5.4	5.0	6.4	6.6	6.0
* ALLSTAR FORE (DLFPS-236/3541)	22	6.5	6.3	6.3	5.7	4.9	6.2	6.4	6.0
* ALLOY (RRT)	56	6.4	6.3	6.3	5.6	4.8	6.2	6.4	6.0
PPG-PR 422	72	6.5	5.3	6.5	5.5	5.1	6.4	6.6	6.0
* GATOR FORE (DLFPS-236/3544)	15	6.5	5.8	6.4	5.3	5.0	6.3	6.6	6.0
NP-2	39	6.4	5.6	6.4	5.6	5.0	6.3	6.5	6.0
PPG-PR 372	67	6.4	5.6	6.4	5.5	5.0	6.3	6.5	6.0
* SUNBURST (02BS2)	55	6.4	6.4	6.2	5.6	4.7	6.1	6.3	6.0
* PARADOX GLR (PPG-PR 331)	59	6.4	5.4	6.4	5.6	5.0	6.3	6.5	5.9
* FASTBALL 3GL (PPG-PR 329)	58	6.4	6.0	6.3	5.5	4.8	6.1	6.4	5.9
* SLUGGER 3GL (PPG-PR 343)	62	6.4	6.1	6.3	5.5	4.8	6.1	6.4	5.9
* MYSTIQUE (DLFPS-236/3547)	48	6.4	5.7	6.3	5.4	4.9	6.3	6.5	5.9
CPN	103	6.4	5.4	6.4	5.5	5.0	6.3	6.5	5.9
PPG-PR 360	63	6.3	6.0	6.3	5.5	4.8	6.1	6.4	5.9
* PARAGON 2 GLR (FP2)	54	6.4	5.6	6.3	5.4	4.9	6.2	6.5	5.9
PL2	27	6.4	6.0	6.2	5.2	4.8	6.2	6.4	5.9
ZOOM 2 (DLFPS-236/3545)	24	6.4	5.9	6.2	5.2	4.8	6.2	6.4	5.9
* SILVER SPORT (PST-2CRP)	85	6.3	5.7	6.3	5.3	4.8	6.2	6.4	5.9
APR2616	40	6.4	5.3	6.3	5.3	5.0	6.2	6.5	5.9
* APPLE 3GL (PPG-PR 339)	61	6.3	5.9	6.2	5.3	4.8	6.1	6.4	5.9
PPG-PR 367	64	6.3	5.2	6.3	5.4	5.0	6.2	6.5	5.9
DLFPS-236/3550	51	6.4	5.1	6.4	5.3	5.0	6.3	6.5	5.8
CATALYST (023)	53	6.3	5.3	6.3	5.3	4.9	6.2	6.5	5.8
DLFPS-236/3540	13	6.4	5.2	6.3	5.3	5.0	6.2	6.5	5.8
* XCELERATOR	17	6.4	5.2	6.3	5.2	5.0	6.3	6.5	5.8
REVENGE 2GLX (JR-197)	104	6.3	5.6	6.2	5.2	4.8	6.1	6.4	5.8
* HOMERUN LS (PPG-PR 419)	69	6.4	5.0	6.4	5.1	5.0	6.3	6.6	5.8
DLFPS-236/3552	52	6.3	5.6	6.2	5.1	4.8	6.2	6.4	5.8
* SLIDER LS (PPG-PR 241)	57	6.3	5.3	6.3	5.4	4.9	6.2	6.4	5.8
DLFPS-236/3556	33	6.3	5.2	6.3	5.2	4.9	6.2	6.5	5.8
021	1	6.3	6.0	6.1	5.1	4.7	6.1	6.4	5.8
DLFPS-236/3553	94	6.3	5.3	6.3	5.3	4.9	6.2	6.5	5.8
* SUPERSTAR GL (PPG-PR 420)	70	6.3	5.3	6.3	5.0	4.9	6.2	6.5	5.8
* UMPQUA	108	6.3	5.3	6.3	5.2	4.9	6.2	6.5	5.8
* GATOR CINCO (DLFPS-236/3548)	49	6.3	5.5	6.2	5.0	4.8	6.2	6.4	5.8
* SHIELD (02BS4)	31	6.3	5.5	6.2	5.1	4.8	6.2	6.4	5.8
* ASP0117 (A-PR15)	35	6.3	5.0	6.3	5.2	4.9	6.2	6.4	5.8
* GRAY WOLF (PST-2GAL)	91	6.3	5.3	6.3	5.1	4.9	6.2	6.5	5.8
NP-3	38	6.3	5.0	6.3	5.1	4.9	6.2	6.4	5.8

TABLE 3. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2018 DATA

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

NAME	# ENTRY	CT1	NJ2	MI1	MN1	NE1	UT1	OR1	MEAN
* OVERDRIVE 5G	101	6.3	5.1	6.3	5.3	5.0	6.2	6.5	5.8
PST-2MAY	90	6.2	5.5	6.1	5.1	4.7	6.0	6.3	5.7
* SWIFT (PST-2A2)	93	6.2	5.2	6.2	5.2	4.8	6.1	6.4	5.7
* ELEKTRA GLR (PPG-PR 371)	66	6.2	5.6	6.1	4.9	4.7	6.1	6.3	5.7
* IVY (PST-2GTD)	88	6.2	5.6	6.1	4.9	4.7	6.1	6.3	5.7
* SPIKE GLS (UF3)	18	6.2	5.6	6.1	5.1	4.7	6.0	6.3	5.7
PST-2FOXY	84	6.2	5.3	6.2	5.0	4.8	6.1	6.3	5.7
* SIGNET	30	6.2	5.3	6.1	5.1	4.8	6.1	6.3	5.7
02BS1	102	6.2	5.3	6.1	5.1	4.7	6.0	6.3	5.7
* MIGHTIER (DLFPS-236/3542)	14	6.2	5.2	6.1	4.8	4.8	6.1	6.4	5.7
PPG-PR 370	65	6.2	5.2	6.1	4.8	4.7	6.1	6.3	5.6
* PHARAOH	111	6.2	5.1	6.2	5.1	4.8	6.1	6.3	5.6
* GRAY HAWK (PST-2FIND)	87	6.2	4.9	6.2	5.0	4.8	6.1	6.4	5.6
PR-5-16	96	6.2	5.2	6.1	5.1	4.7	6.1	6.3	5.6
LPB-SD-102	11	6.1	4.0	6.3	5.5	5.0	6.1	6.4	5.6
* SR 4650	76	6.1	4.8	6.1	5.1	4.8	6.0	6.3	5.6
* STARBRIGHT GLX (PST-2BDT)	89	6.1	5.3	6.0	5.1	4.6	5.9	6.2	5.6
PST-2EGAD	86	6.2	5.2	6.1	4.8	4.7	6.0	6.3	5.6
* GRAND SLAM GLD	78	6.1	5.4	6.0	4.9	4.6	6.0	6.2	5.6
* ASP0118GL (A-4G)	36	6.1	5.3	6.0	4.9	4.6	6.0	6.2	5.6
* ASP0116EXT	34	6.1	4.7	6.1	4.9	4.8	6.0	6.3	5.6
* SEABISCUIT	109	6.1	5.4	6.0	4.7	4.6	6.0	6.2	5.6
* INTENSE	16	6.1	5.2	6.0	4.7	4.6	5.9	6.2	5.5
JR-123	19	6.1	5.2	5.9	4.8	4.5	5.9	6.2	5.5
* DERBY XTREME	60	6.0	4.8	6.0	5.0	4.7	5.9	6.2	5.5
* HELIOS (DLFPS-236/3538)	77	6.1	5.1	6.0	4.6	4.6	6.0	6.2	5.5
* MAN O WAR	110	6.0	5.0	6.0	5.0	4.6	5.9	6.2	5.5
PST-2PDA	92	6.0	5.1	6.0	4.9	4.6	5.9	6.1	5.5
APR3060	45	6.0	5.5	5.8	4.8	4.4	5.8	6.0	5.5
* SAGUARO	7	6.0	4.0	6.1	5.0	4.8	6.0	6.3	5.5
PPG-PR 385	68	6.0	4.8	6.0	4.7	4.6	5.9	6.2	5.5
BAR LP 6233	83	6.0	4.9	5.9	4.6	4.6	5.9	6.2	5.4
BAR LP 6159	82	6.0	4.9	5.9	4.7	4.5	5.8	6.1	5.4
MRSL-PR16	26	5.9	5.0	5.8	4.7	4.5	5.8	6.1	5.4
CS-6	32	6.0	4.6	5.9	4.7	4.6	5.9	6.1	5.4
* EVOLVE	25	5.9	4.7	5.9	4.6	4.5	5.8	6.1	5.4
* ASP0218 (A-6D)	37	5.9	4.7	5.8	4.4	4.5	5.8	6.1	5.3
LPB-SD-103	12	5.8	3.7	6.0	4.9	4.7	5.8	6.1	5.3

TABLE 3. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2018 DATA

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

NAME	# ENTRY	CT1	NJ2	MI1	MN1	NE1	UT1	OR1	MEAN
* KARMA	75	5.8	4.2	5.8	4.7	4.5	5.8	6.0	5.3
* MENSA	9	5.8	3.6	6.0	4.8	4.7	5.8	6.1	5.3
BAR LP 6117	80	5.9	4.5	5.8	4.3	4.4	5.8	6.1	5.3
BAR LP 6164	99	6.0	4.8	5.9	4.4	4.5	5.9	6.2	5.2
LPB-SD-105	6	5.8	3.0	6.0	4.8	4.9	5.9	6.2	5.2
JR-888	21	5.8	3.7	5.9	4.7	4.6	5.8	6.0	5.2
GO-141	41	5.8	4.0	5.8	4.6	4.5	5.8	6.0	5.2
* HATRICK (BSP-17)	2	5.8	4.5	5.7	4.2	4.4	5.7	6.0	5.2
* GREEN SUPREME+ (AMP-R1)	46	5.7	4.5	5.7	4.4	4.3	5.7	5.9	5.2
* NEXUS GT (SNX)	29	5.8	4.7	5.6	4.2	4.3	5.7	5.9	5.2
* SAVANT	5	5.8	3.1	5.9	4.6	4.7	5.8	6.1	5.2
MRSL-PR15	28	5.7	4.6	5.6	4.3	4.3	5.6	5.9	5.2
* BELIZE 2 (GO-142)	42	5.7	4.4	5.7	4.4	4.3	5.6	5.9	5.2
RAD-PR 112	107	5.8	4.6	5.7	4.4	4.3	5.7	5.9	5.1
* CAYMAN (GO-143)	43	5.7	4.4	5.6	4.3	4.3	5.6	5.9	5.1
LPB-SD-101	10	5.7	3.1	5.9	4.6	4.7	5.8	6.0	5.1
* FIREBALL (BWH)	3	5.7	4.0	5.7	4.2	4.4	5.7	5.9	5.1
APR2612	44	5.7	4.6	5.5	4.1	4.2	5.6	5.8	5.1
BAR LP 6158	97	5.8	4.5	5.7	4.2	4.4	5.8	6.0	5.1
BAR LP 6131	81	5.6	4.2	5.6	4.2	4.3	5.6	5.9	5.0
* ALLSTAR III	112	5.6	4.3	5.6	4.4	4.3	5.6	5.8	5.0
* PEPPER II (RAD-PR 103)	106	5.7	4.5	5.6	4.2	4.3	5.6	5.9	5.0
LPB-SD-104	8	5.5	3.4	5.6	4.4	4.3	5.5	5.7	4.9
JR-747	20	5.5	2.9	5.6	4.2	4.4	5.6	5.8	4.9
* BRIGHTSTAR SLT	113	5.6	3.9	5.6	4.3	4.3	5.6	5.8	4.9
* TEE-ME-UP (BSP-25)	4	5.5	4.0	5.4	3.7	4.1	5.5	5.7	4.8
BAR LP 6165	100	5.5	3.5	5.5	3.8	4.3	5.6	5.9	4.6
DLFPS-238/3014	105	5.2	3.9	5.0	3.1	3.7	5.2	5.4	4.3
BAR LP 6162	98	5.0	3.1	4.9	2.7	3.7	5.1	5.4	3.9
* LINN	114	3.4	1.1	3.3	1.2	2.1	3.5	3.8	2.3
LSD VALUE		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)		9.3	11.4	9.4	11.6	12.2	9.5	9.1	10.3

* COMMERCIALLY AVAILABLE IN THE USA IN 2019

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 4. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

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

NAME	# ENTRY	MD	VA1	IL1	IA1	MO1	KS1	CA7	MEAN
FIESTA CINCO (DLFPS-236/3554)	95	5.5	7.2	6.3	6.8	4.4	6.3	6.0	6.5
SEABISCUIT	109	5.1	7.0	6.2	6.6	4.2	6.0	6.1	6.2
GRAY WOLF (PST-2GAL)	91	4.9	7.0	6.3	6.6	4.1	6.1	6.2	6.2
BAR LP 6164	99	4.8	7.1	6.3	6.5	4.2	6.0	6.5	6.2
REVENGE 2GLX (JR-197)	104	5.0	6.9	6.1	6.5	4.0	6.0	5.8	6.1
UMPQUA	108	4.7	6.9	6.3	6.5	4.0	6.1	6.2	6.1
GATOR FORE (DLFPS-236/3544)	15	5.4	7.2	6.4	6.8	4.4	6.3	6.2	6.1
PALMER SUPREME (PPG-PR 421)	71	5.3	7.2	6.5	6.8	4.3	6.3	6.2	6.1
DLFPS-236/3553	94	4.7	6.9	6.3	6.4	3.9	6.0	6.1	6.1
MIGHTIER (DLFPS-236/3542)	14	5.1	7.2	6.4	6.7	4.4	6.2	6.4	6.1
PST-2MAY	90	4.9	6.8	6.1	6.4	3.9	5.9	5.8	6.1
BAR LP 6158	97	4.6	6.9	6.2	6.4	4.1	5.9	6.4	6.0
HOMERUN LS (PPG-PR 419)	69	4.7	7.1	6.6	6.6	4.2	6.3	6.7	6.0
DLFPS-236/3552	52	5.3	7.2	6.3	6.7	4.3	6.2	6.1	6.0
ZOOM 2 (DLFPS-236/3545)	24	5.4	7.1	6.2	6.7	4.3	6.2	5.9	6.0
CPN	103	4.6	6.8	6.2	6.3	3.7	6.0	5.9	6.0
SUPERSTAR GL (PPG-PR 420)	70	5.0	7.1	6.4	6.6	4.2	6.2	6.4	6.0
GATOR CINCO (DLFPS-236/3548)	49	5.2	7.1	6.3	6.7	4.3	6.2	6.2	6.0
021	1	5.6	7.1	6.2	6.8	4.3	6.1	5.8	6.0
OVERDRIVE 5G	101	4.5	6.8	6.3	6.3	3.8	6.0	6.2	6.0
IVY (PST-2GTD)	88	5.3	7.1	6.2	6.7	4.3	6.1	6.0	6.0
02BS1	102	4.7	6.8	6.1	6.3	3.8	5.9	5.8	6.0
PR-5-16	96	4.6	6.8	6.1	6.3	3.8	5.9	6.0	6.0
PHARAOH	111	4.6	6.8	6.2	6.3	3.8	5.9	6.0	5.9
ELEKTRA GLR (PPG-PR 371)	66	5.3	7.1	6.2	6.7	4.3	6.1	6.0	5.9
PPG-PR 370	65	5.0	7.1	6.3	6.6	4.2	6.1	6.3	5.9
PL2	27	5.4	7.1	6.2	6.7	4.2	6.1	5.8	5.9
HELIOS (DLFPS-236/3538)	77	5.0	7.1	6.3	6.6	4.2	6.0	6.3	5.9
XCELERATOR	17	4.8	7.0	6.4	6.6	4.1	6.2	6.3	5.9
SWIFT (PST-2A2)	93	4.5	6.7	6.1	6.2	3.7	5.9	5.9	5.9
PST-2EGAD	86	5.0	7.0	6.2	6.6	4.2	6.0	6.2	5.9
DLFPS-236/3546	47	5.2	7.0	6.3	6.6	4.1	6.1	5.8	5.9
SHIELD (02BS4)	31	5.0	7.0	6.3	6.6	4.1	6.1	6.0	5.9
PORTFOLIO (PPG-PR 423)	73	5.1	7.0	6.3	6.6	4.0	6.1	5.9	5.9
STELLAR 4GL (PPG-PR 424)	74	4.7	7.0	6.4	6.5	3.9	6.2	6.2	5.8
STARBRIGHT GLX (PST-2BDT)	89	4.6	6.6	5.9	6.2	3.7	5.8	5.6	5.8
PEPPER II (RAD-PR 103)	106	4.4	6.7	6.0	6.2	3.9	5.7	6.1	5.8
MYSTIQUE (DLFPS-236/3547)	48	5.0	7.0	6.3	6.6	4.0	6.1	5.9	5.8
DLFPS-238/3014	105	4.5	6.8	5.8	6.2	4.1	5.5	6.3	5.8
MAN O WAR	110	4.5	6.6	6.0	6.2	3.6	5.8	5.8	5.8

TABLE 4. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

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

NAME	# ENTRY	MD	VA1	IL1	IA1	MO1	KS1	CA7	MEAN
DLFPS-236/3550	51	4.6	6.9	6.4	6.4	3.9	6.1	6.3	5.8
BAR LP 6162	98	4.1	6.9	6.1	6.2	4.2	5.6	7.0	5.8
PST-2PDA	92	4.5	6.6	6.0	6.2	3.6	5.7	5.7	5.8
DLFPS-236/3540	13	4.7	6.9	6.3	6.4	3.9	6.1	6.2	5.8
INTENSE	16	4.9	6.9	6.1	6.5	4.1	6.0	6.0	5.8
PPG-PR 422	72	4.6	6.9	6.4	6.4	3.8	6.1	6.2	5.8
FURLONG (LTP-FCB)	79	5.2	6.9	6.2	6.6	3.9	6.1	5.6	5.8
GRAND SLAM GLD	78	5.0	6.9	6.1	6.5	4.1	6.0	5.9	5.8
BAR LP 6117	80	4.6	6.9	6.2	6.4	4.1	5.9	6.5	5.8
PPG-PR 372	67	4.8	6.9	6.3	6.5	3.9	6.1	6.0	5.8
DLFPS-236/3556	33	4.6	6.9	6.3	6.4	3.9	6.1	6.2	5.8
SILVER SPORT (PST-2CRP)	85	5.1	6.9	6.2	6.5	4.0	6.0	5.8	5.8
PST-2FOXY	84	4.8	6.9	6.2	6.4	4.0	6.0	6.1	5.8
RAD-PR 112	107	4.4	6.6	5.9	6.1	3.7	5.7	6.0	5.8
SR 4700 (DLFPS-236/3543)	23	5.2	6.9	6.1	6.5	4.0	6.1	5.6	5.8
ASP0218 (A-6D)	37	4.6	6.9	6.2	6.4	4.0	5.9	6.3	5.8
NEXUS GT (SNX)	29	4.8	6.9	6.1	6.4	4.1	5.8	6.2	5.8
SPIKE GLS (UF3)	18	5.1	6.9	6.1	6.5	4.0	6.0	5.8	5.7
NP-3	38	4.5	6.9	6.3	6.4	3.8	6.0	6.3	5.7
JR-123	19	4.9	6.9	6.1	6.4	4.0	5.9	5.9	5.7
CATALYST (023)	53	4.7	6.9	6.3	6.4	3.9	6.0	6.0	5.7
PPG-PR 385	68	4.6	6.9	6.2	6.4	3.9	5.9	6.2	5.7
APR2616	40	4.6	6.8	6.3	6.4	3.8	6.0	6.1	5.7
GRAY HAWK (PST-2FIND)	87	4.5	6.8	6.3	6.3	3.8	6.0	6.3	5.7
ALLOY (RRT)	56	5.3	6.9	6.0	6.5	3.9	6.0	5.3	5.7
SIGNET	30	4.7	6.8	6.2	6.4	3.9	5.9	6.0	5.7
BAR LP 6233	83	4.6	6.8	6.1	6.3	3.9	5.9	6.2	5.7
BAR LP 6165	100	3.8	6.7	6.2	6.1	3.8	5.7	6.8	5.7
APPLE 3GL (PPG-PR 339)	61	5.1	6.8	6.0	6.5	3.9	6.0	5.5	5.7
PARAGON 2 GLR (FP2)	54	4.8	6.8	6.2	6.4	3.8	6.0	5.8	5.7
HATRICK (BSP-17)	2	4.5	6.8	6.1	6.3	4.0	5.8	6.3	5.7
ASP0117 (A-PR15)	35	4.4	6.8	6.3	6.3	3.8	6.0	6.2	5.7
PPG-PR 367	64	4.5	6.8	6.3	6.3	3.8	6.0	6.0	5.7
ALLSTAR FORE (DLFPS-236/3541)	22	5.3	6.8	6.0	6.5	3.9	6.0	5.3	5.7
PR-6-15	50	4.8	6.8	6.2	6.4	3.7	6.0	5.8	5.7
SLUGGER 3GL (PPG-PR 343)	62	5.2	6.8	6.0	6.5	3.9	5.9	5.4	5.7
ASP0118GL (A-4G)	36	4.8	6.8	6.1	6.4	3.9	5.9	5.8	5.7
EVOLVE	25	4.5	6.8	6.1	6.3	3.9	5.8	6.1	5.6
ASP0116EXT	34	4.3	6.8	6.2	6.2	3.8	5.9	6.2	5.6
APR2612	44	4.6	6.8	6.0	6.3	4.0	5.7	6.1	5.6
NP-2	39	4.7	6.8	6.2	6.3	3.7	6.0	5.8	5.6
FASTBALL 3GL (PPG-PR 329)	58	5.1	6.7	6.0	6.4	3.8	5.9	5.4	5.6

TABLE 4. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

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

NAME	# ENTRY	MD	VA1	IL1	IA1	MO1	KS1	CA7	MEAN
MRSL-PR16	26	4.7	6.7	6.0	6.3	3.8	5.8	5.9	5.6
BAR LP 6159	82	4.6	6.7	6.0	6.2	3.8	5.8	6.0	5.6
PPG-PR 360	63	5.1	6.7	5.9	6.4	3.8	5.9	5.3	5.6
SUNBURST (02BS2)	55	5.3	6.7	5.8	6.4	3.8	5.9	5.0	5.6
PARADOX GLR (PPG-PR 331)	59	4.5	6.7	6.2	6.3	3.6	5.9	5.8	5.6
CS-6	32	4.3	6.7	6.1	6.2	3.7	5.8	6.2	5.6
SLIDER LS (PPG-PR 241)	57	4.5	6.7	6.1	6.2	3.6	5.9	5.8	5.6
TEE-ME-UP (BSP-25)	4	4.3	6.7	6.0	6.1	3.9	5.6	6.4	5.6
APR3060	45	4.9	6.7	5.8	6.3	3.8	5.7	5.4	5.5
ALLSTAR III	112	4.0	6.4	5.8	5.9	3.4	5.5	5.8	5.5
MRSL-PR15	28	4.4	6.6	5.9	6.1	3.7	5.7	6.0	5.5
SR 4650	76	4.2	6.6	6.1	6.1	3.5	5.8	6.0	5.5
CAYMAN (GO-143)	43	4.2	6.6	6.0	6.1	3.7	5.6	6.1	5.5
BAR LP 6131	81	4.1	6.6	6.0	6.0	3.7	5.6	6.2	5.5
BRIGHTSTAR SLT	113	3.7	6.4	5.9	5.8	3.3	5.5	6.1	5.4
FIREBALL (BWH)	3	3.9	6.6	6.1	6.0	3.6	5.6	6.3	5.4
GREEN SUPREME+ (AMP-R1)	46	4.2	6.6	5.9	6.0	3.6	5.6	6.0	5.4
DERBY XTREME	60	4.2	6.5	6.0	6.0	3.5	5.7	5.8	5.4
BELIZE 2 (GO-142)	42	4.1	6.5	5.9	6.0	3.6	5.6	5.9	5.4
GO-141	41	3.6	6.4	6.0	5.8	3.3	5.6	6.2	5.3
SAGUARO	7	3.4	6.4	6.2	5.8	3.2	5.7	6.3	5.3
KARMA	75	3.7	6.4	6.0	5.8	3.3	5.6	6.0	5.3
SAVANT	5	2.7	6.2	6.2	5.5	2.9	5.5	6.6	5.1
JR-888	21	3.1	6.1	6.0	5.5	2.9	5.4	6.1	5.0
LPB-SD-102	11	3.0	6.1	6.1	5.5	2.7	5.5	6.0	5.0
MENSA	9	3.0	6.1	6.0	5.5	2.8	5.4	6.2	5.0
LPB-SD-101	10	2.6	6.0	6.1	5.4	2.8	5.4	6.4	5.0
LPB-SD-103	12	3.0	6.0	5.9	5.4	2.8	5.4	6.0	4.9
LPB-SD-105	6	2.4	6.0	6.2	5.3	2.6	5.4	6.6	4.9
JR-747	20	2.6	6.0	5.9	5.3	2.8	5.3	6.4	4.9
LPB-SD-104	8	2.9	5.9	5.7	5.3	2.7	5.2	5.9	4.8
LINN	114	1.9	4.9	4.3	4.2	2.1	3.8	5.3	3.9
LSD VALUE		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)		12.5	8.4	9.3	9.1	15.0	9.7	9.4	10.0

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 5. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FOURTEEN LOCATIONS IN THE U.S. **/ 2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	ENTRY #	CA7	CT1	IA1	IL1	KS1	KY1	MD1	MN1	MO1	NE1	NJ2	OR1	UT1	VA1	MEAN
*PALMER SUPREME (PPG-PR 421)	71	5.8	7.2	7.4	7.5	5.7	6.4	5.7	5.2	5.4	5.4	6.6	6.6	7.2	6.7	6.3
*SLUGGER 3GL (PPG-PR 343)	62	5.6	7.1	7.2	7.7	5.5	6.3	5.4	5.7	4.8	4.9	6.8	6.8	7.1	6.9	6.3
*FIESTA CINCO (DLFPS-236/3554)	95	5.2	7.3	7.6	7.9	5.0	6.3	5.7	6.2	5.5	5.2	6.2	6.4	6.9	6.3	6.3
PL2	27	5.6	6.9	7.2	8.1	4.8	6.3	6.0	6.3	5.6	5.1	6.3	6.4	6.7	6.3	6.3
*MYSTIQUE (DLFPS-236/3547)	48	5.2	7.2	7.7	7.6	5.4	6.3	5.2	5.7	4.7	5.0	6.8	6.9	6.5	6.7	6.2
PORTFOLIO (PPG-PR 423)	73	5.3	7.1	7.2	7.9	4.9	6.3	5.2	5.9	4.9	5.3	6.3	6.6	6.8	6.9	6.2
DLFPS-236/3546	47	5.7	7.3	7.4	7.6	5.4	6.4	4.9	6.2	5.7	4.8	6.1	6.7	6.7	5.7	6.2
PPG-PR 372	67	5.4	6.7	7.1	7.6	4.5	6.2	5.3	6.3	4.9	5.2	6.2	7.0	7.0	6.7	6.2
*FASTBALL 3GL (PPG-PR 329)	58	5.1	6.5	7.0	7.8	5.3	6.1	6.0	5.4	5.6	5.3	5.8	6.8	6.9	6.1	6.1
*FURLONG (LTP-FCB)	79	5.8	6.7	7.5	5.1	5.4	6.2	4.5	5.7	5.5	5.3	7.1	6.9	7.4	6.6	6.1
PPG-PR 422	72	5.5	7.0	7.3	7.6	4.9	6.0	5.2	5.8	5.1	5.2	5.7	6.9	6.5	6.9	6.1
*GATOR FORE (DLFPS-236/3544)	15	5.7	6.8	7.3	7.7	5.2	6.0	5.5	6.2	4.7	5.2	5.4	6.8	6.6	6.3	6.1
NP-3	38	5.7	7.2	7.0	8.3	5.0	6.1	4.9	5.9	5.6	4.8	5.9	6.8	6.6	5.7	6.1
PR-6-15	50	5.3	6.7	7.6	7.8	5.0	5.9	5.1	6.0	4.3	5.3	6.1	6.7	6.9	6.7	6.1
*ELEKTRA GLR (PPG-PR 371)	66	5.2	6.9	7.2	7.4	5.3	5.9	5.6	4.4	6.1	5.1	5.8	6.7	6.9	6.8	6.1
NP-2	39	6.1	6.3	7.2	8.0	5.0	6.2	5.1	5.7	4.8	5.1	6.1	6.7	6.8	5.8	6.1
PPG-PR 367	64	6.1	6.7	6.6	7.7	4.8	5.5	5.7	6.1	4.6	5.2	5.5	7.3	6.4	6.8	6.1
*SR 4700 (DLFPS-236/3543)	23	5.7	7.5	7.7	5.3	5.0	6.3	5.8	5.3	4.6	5.1	6.6	6.8	6.8	6.3	6.0
*XCELERATOR	17	4.8	6.7	7.1	8.1	4.7	6.0	5.2	5.6	4.9	4.8	6.0	6.8	6.7	7.3	6.0
*APPLE 3GL (PPG-PR 339)	61	4.9	7.4	6.4	7.3	5.3	6.2	5.5	5.9	5.4	5.1	5.5	6.8	6.5	6.2	6.0
*SHIELD (02BS4)	31	5.7	6.9	7.1	8.0	5.0	6.1	6.0	5.1	5.3	5.0	5.7	6.6	6.2	5.9	6.0
DLFPS-236/3556	33	5.6	6.4	6.5	8.0	4.9	6.4	5.6	6.0	4.8	5.1	5.6	6.7	6.2	6.6	6.0
*SUPERSTAR GL (PPG-PR 420)	70	5.1	7.1	7.3	5.4	5.3	6.2	5.2	5.4	5.8	5.3	5.8	6.7	6.7	7.1	6.0
GATOR CINCO (DLFPS-236/3548)	49	5.1	6.9	7.2	7.7	5.1	6.0	5.6	5.4	5.4	5.0	5.4	6.4	6.4	6.6	6.0
REVENGE 2GLX (JR-197)	104	5.8	7.1	7.5	5.6	5.3	6.0	4.6	5.7	4.5	5.3	6.8	7.1	6.1	6.6	6.0
*HOMERUN LS (PPG-PR 419)	69	4.9	7.4	6.9	7.6	5.0	6.0	5.1	5.4	4.8	5.3	5.2	6.8	6.8	6.9	6.0
*STELLAR 4GL (PPG-PR 424)	74	5.5	7.4	7.4	5.5	4.8	6.0	5.1	6.0	4.3	5.1	5.9	6.9	7.0	6.8	6.0
*GRAY WOLF (PST-2GAL)	91	5.5	6.7	6.9	7.9	5.1	6.1	5.1	4.4	5.1	5.1	5.8	6.6	6.9	6.7	6.0
DLFPS-236/3550	51	5.6	7.1	6.8	7.6	5.0	6.1	5.3	5.4	4.4	5.1	5.2	6.4	6.8	6.5	5.9
*OVERDRIVE 5G	101	5.6	6.8	7.1	8.1	4.7	5.6	4.5	5.7	3.8	5.2	6.1	6.9	6.5	6.5	5.9
DLFPS-236/3552	52	5.6	7.2	7.0	5.4	5.0	6.1	5.9	4.6	5.4	5.3	6.0	6.7	6.8	6.2	5.9
*ZOOM 2 (DLFPS-236/3545)	24	5.4	7.0	7.0	5.6	5.2	6.3	5.5	4.9	4.7	5.2	6.0	6.9	6.3	6.6	5.9
PPG-PR 370	65	5.1	7.1	7.1	5.5	5.0	6.3	5.4	5.2	5.1	5.2	5.8	6.7	7.0	6.2	5.9
PST-2FOXY	84	6.2	7.1	7.0	5.6	5.1	6.0	5.6	5.3	5.0	5.1	4.8	6.8	6.8	6.3	5.9
PR-5-16	96	5.8	6.5	7.2	5.9	5.0	5.9	4.8	5.8	5.1	5.3	5.6	6.5	6.4	6.7	5.9
*ALLOY (RRT)	56	5.1	7.3	7.2	3.3	5.3	6.2	5.7	5.3	5.1	4.9	6.4	6.8	7.3	6.5	5.9
*SUNBURST (02BS2)	55	5.9	6.7	6.7	3.2	5.4	6.3	6.4	5.7	5.3	5.1	6.1	6.8	6.9	5.7	5.9
APR2616	40	5.6	6.7	6.8	7.9	4.7	5.9	5.2	5.3	4.5	5.1	5.0	6.3	6.8	6.7	5.9
*PARADOX GLR (PPG-PR 331)	59	5.6	6.7	6.7	7.9	5.0	6.4	4.3	6.2	4.6	5.1	4.7	6.6	6.7	5.7	5.9
DLFPS-236/3540	13	5.5	6.6	6.8	7.7	4.9	6.0	4.9	5.6	4.6	5.2	5.3	6.6	6.3	6.1	5.9
*HELIOS (DLFPS-236/3538)	77	5.6	6.9	7.7	3.2	5.3	5.8	5.3	5.6	6.3	4.9	5.5	6.3	6.5	7.1	5.9
*SPIKE GLS (UF3)	18	5.1	6.6	6.7	5.6	4.9	5.9	5.3	5.9	5.3	5.0	5.9	6.9	6.6	6.4	5.8
PPG-PR 360	63	4.9	6.9	7.1	5.2	5.2	5.9	5.8	5.2	4.8	5.1	6.0	6.6	6.9	6.2	5.8
*MIGHTIER (DLFPS-236/3542)	14	5.2	6.9	7.1	5.7	5.2	5.8	5.4	4.4	3.9	5.1	6.0	6.7	7.1	7.1	5.8
*SILVER SPORT (PST-2CRP)	85	5.1	6.1	7.3	5.7	5.3	6.1	4.9	5.7	4.7	5.3	5.9	6.6	6.9	6.1	5.8

TABLE 5.
(CONT'D)

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	ENTRY #	CA7	CT1	IA1	IL1	KS1	KY1	MD1	MN1	MO1	NE1	NJ2	OR1	UT1	VA1	MEAN
CPN	103	5.3	6.9	7.0	5.3	4.9	5.9	4.3	6.3	4.7	5.2	5.5	6.9	6.7	6.9	5.8
BAR LP 6164	99	6.1	6.3	7.2	7.7	5.2	6.0	5.3	4.7	4.8	5.1	4.5	6.3	5.9	6.3	5.8
*ALLSTAR FORE (DLFPS-236/3541)	22	5.9	6.8	6.5	3.4	5.2	6.4	5.8	5.7	4.1	5.0	6.3	6.9	6.5	6.7	5.8
*SWIFT (PST-2A2)	93	5.2	6.8	6.8	7.8	5.0	5.9	4.7	5.4	2.9	4.9	5.7	6.8	6.9	6.0	5.8
PST-2MAY	90	5.4	6.6	7.1	5.4	.	6.2	5.3	4.8	4.9	4.9	5.0	6.4	6.8	6.0	5.8
*UMPQUA	108	4.6	6.7	7.7	5.5	4.7	5.9	5.2	6.1	3.8	5.0	5.9	6.7	6.3	6.6	5.8
*INTENSE	16	5.3	6.5	6.7	7.9	4.7	5.3	5.5	4.4	3.5	5.0	5.8	6.6	6.6	6.9	5.8
DLFPS-236/3553	94	5.5	6.1	7.0	5.5	5.0	5.6	4.8	5.4	5.0	5.0	6.4	6.6	6.6	6.1	5.7
*ASP0118GL (A-4G)	36	5.4	6.7	6.8	7.4	4.9	6.0	4.9	4.7	4.8	4.7	4.8	6.6	6.4	5.8	5.7
*SR 4650	76	5.4	6.4	6.7	8.0	5.0	6.1	3.9	5.8	3.5	5.1	5.2	6.4	6.6	5.7	5.7
BAR LP 6117	80	6.0	6.2	6.7	8.0	5.1	5.7	4.8	4.5	5.0	5.0	4.3	6.3	6.3	6.1	5.7
*IVY (PST-2GTD)	88	5.8	6.9	7.3	3.4	5.1	6.3	5.3	4.9	4.7	5.3	5.2	6.5	6.2	6.8	5.7
PPG-PR 385	68	5.5	6.4	7.1	5.3	5.3	5.9	4.4	4.8	5.1	5.0	5.3	6.2	6.2	6.9	5.7
*PHARAOH	111	5.0	7.4	7.2	5.5	4.8	5.7	4.9	4.6	4.5	5.1	5.2	6.7	6.6	6.3	5.7
*PARAGON 2 GLR (FP2)	54	5.8	6.2	7.1	5.3	4.6	5.7	4.3	5.8	5.1	5.0	5.4	6.7	6.7	5.9	5.7
*SIGNET	30	5.5	6.8	6.9	5.0	5.4	5.9	4.8	4.9	4.4	5.0	5.8	6.1	6.5	6.2	5.7
*KARMA	75	5.2	6.4	6.1	7.9	.	5.8	4.5	5.2	3.9	5.1	5.0	6.5	6.1	5.8	5.7
*STARBRIGHT GLX (PST-2BDT)	89	5.8	7.1	6.7	5.6	4.9	5.9	4.6	4.9	4.9	5.1	5.0	6.5	6.2	6.0	5.7
*ASP0218 (A-6D)	37	5.7	6.3	5.8	7.8	4.9	6.0	5.0	4.3	5.2	4.7	3.7	6.6	7.0	6.2	5.6
JR-123	19	5.6	6.6	6.0	5.4	5.5	5.4	5.6	5.0	5.0	4.8	4.8	6.5	6.7	5.8	5.6
*SEABISCUIT	109	5.6	6.7	7.3	3.5	5.2	5.9	5.3	4.8	5.3	5.0	5.3	6.6	6.2	6.2	5.6
*ASP0117 (A-PR15)	35	5.2	6.1	7.0	5.5	5.2	6.0	4.9	5.8	4.2	4.9	5.0	6.5	6.5	5.9	5.6
02BS1	102	4.7	6.3	7.0	5.6	5.0	5.7	4.4	4.7	3.9	5.0	5.7	6.9	6.6	6.7	5.6
*SLIDER LS (PPG-PR 241)	57	5.5	6.8	6.9	3.2	4.9	6.4	5.1	5.4	4.9	5.3	5.0	6.4	6.1	6.2	5.6
*ASP0116EXT	34	5.9	5.8	7.0	7.8	4.8	5.8	4.7	4.9	3.5	4.5	3.8	6.2	6.8	6.4	5.6
*CATALYST (023)	53	6.0	6.4	7.0	3.0	4.6	5.9	4.6	5.6	4.7	4.8	5.5	6.6	6.6	6.6	5.6
021	1	5.3	6.4	7.6	3.1	4.8	5.7	5.9	5.2	4.1	4.9	5.4	6.7	6.4	6.4	5.6
PST-2EGAD	86	5.4	6.4	6.8	5.5	4.6	6.1	5.5	4.8	4.2	5.4	4.5	6.4	6.3	5.9	5.6
MRSL-PR16	26	6.1	5.5	7.0	5.4	5.0	6.1	4.8	4.7	4.7	4.6	4.5	6.4	6.4	6.4	5.5
PST-2PDA	92	5.5	6.1	7.0	7.7	5.4	5.8	4.2	4.6	3.3	5.0	5.1	6.1	6.0	5.9	5.5
CS-6	32	5.6	5.9	6.1	8.0	4.6	5.8	4.6	5.4	3.5	4.6	4.0	6.5	6.8	6.1	5.5
BAR LP 6233	83	5.0	6.0	7.2	5.2	5.0	5.9	4.8	4.8	4.9	5.2	4.8	6.1	5.8	6.7	5.5
*GRAY HAWK (PST-2FIND)	87	5.4	6.1	6.8	5.3	5.1	6.0	4.7	5.2	3.9	5.1	4.9	6.4	6.4	6.0	5.5
BAR LP 6158	97	5.6	5.8	7.0	7.9	5.2	5.6	4.0	4.2	5.0	4.6	4.4	5.7	5.8	6.3	5.5
APR3060	45	5.9	6.1	6.6	5.6	5.0	5.8	4.3	4.8	4.9	5.1	4.7	5.8	5.9	6.7	5.5
*DERBY XTREME	60	5.3	6.4	6.1	7.7	4.4	5.6	4.3	5.0	3.6	5.1	4.5	6.6	6.4	5.5	5.5
*GRAND SLAM GLD	78	5.9	6.9	7.1	1.0	4.9	5.7	5.7	5.1	4.4	5.0	5.4	6.4	6.6	6.5	5.5
BAR LP 6131	81	5.9	5.8	6.9	7.4	4.8	5.4	4.4	4.6	4.6	5.0	3.4	6.0	5.7	6.4	5.4
BAR LP 6159	82	5.6	5.9	6.9	5.5	5.0	5.6	4.7	4.7	5.0	5.0	4.0	6.0	6.2	5.5	5.4
RAD-PR 112	107	4.8	5.6	7.3	7.6	5.0	5.6	4.5	3.9	3.8	4.3	4.1	6.7	6.8	5.4	5.4
APR2612	44	5.5	5.9	6.6	5.4	5.2	5.9	4.7	3.9	4.6	4.8	5.0	6.3	6.1	5.4	5.4
*TEE-ME-UP (BSP-25)	4	4.9	5.7	6.8	7.9	5.0	5.7	4.8	3.4	4.1	4.4	4.2	6.4	6.5	5.7	5.4
*EVOLVE	25	5.3	6.3	5.9	5.3	4.9	5.9	5.3	4.4	4.3	4.9	4.5	6.0	5.8	6.5	5.4
*HATRICK (BSP-17)	2	4.9	5.9	7.1	5.8	5.0	5.6	5.3	4.1	4.8	4.3	3.9	6.4	6.6	5.3	5.4
*FIREBALL (BWH)	3	5.3	5.8	6.7	8.0	4.9	5.5	4.3	3.7	4.6	4.7	3.2	6.6	6.7	5.2	5.4
BAR LP 6165	100	4.9	5.2	7.6	7.5	4.3	5.6	4.2	3.9	4.4	5.0	4.7	6.0	5.0	6.8	5.4

TABLE 5.
(CONT'D)

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	ENTRY #	CA7	CT1	IA1	IL1	KS1	KY1	MD1	MN1	MO1	NE1	NJ2	OR1	UT1	VA1	MEAN
MRSL-PR15	28	5.3	5.9	6.4	5.7	5.0	5.7	4.7	4.0	3.8	4.9	4.4	6.2	6.9	5.9	5.3
*NEXUS GT (SNX)	29	5.2	5.5	6.6	5.5	5.2	5.9	4.7	4.0	4.8	4.6	3.5	6.3	6.6	6.1	5.3
*PEPPER II (RAD-PR 103)	106	5.4	6.0	7.0	5.5	5.1	5.4	4.1	3.6	5.1	4.5	3.7	6.6	6.4	5.9	5.3
*SAGUARO	7	4.9	5.9	5.8	7.6	4.5	5.2	3.7	5.6	3.8	4.9	4.3	6.2	6.6	5.1	5.3
*GREEN SUPREME+ (AMP-R1)	46	5.4	6.0	6.3	5.5	5.2	5.9	4.5	4.4	4.7	4.0	3.6	6.2	6.5	5.4	5.3
DLFPS-238/3014	105	4.9	5.8	7.0	7.7	5.3	4.9	4.4	3.3	5.4	4.2	3.2	6.3	5.3	5.8	5.3
*CAYMAN (GO-143)	43	5.1	6.0	6.0	5.5	5.5	5.6	4.5	3.8	4.9	4.7	3.2	6.2	6.7	5.9	5.2
*MENSA	9	4.7	6.2	6.3	8.0	4.6	4.9	3.4	4.8	3.2	4.7	4.8	6.2	6.3	4.5	5.2
GO-141	41	5.1	6.3	6.0	5.8	4.6	5.4	4.0	4.9	2.9	4.7	3.8	6.0	6.4	6.4	5.2
LPB-SD-103	12	4.5	5.9	6.2	8.1	4.6	5.1	3.2	5.2	2.0	4.9	4.4	6.4	6.3	5.2	5.1
*MAN O'WAR	110	5.4	6.6	7.4	1.0	4.7	5.7	4.5	4.9	3.2	4.7	5.1	6.7	6.3	5.8	5.1
*BELIZE 2 (GO-142)	42	5.4	6.4	5.6	3.2	5.0	5.7	5.0	4.3	3.4	4.9	4.0	6.3	6.3	6.3	5.1
LPB-SD-102	11	4.2	6.4	6.5	7.4	4.3	4.9	3.6	4.9	2.2	4.7	4.6	6.8	6.5	4.7	5.1
LPB-SD-101	10	4.0	6.3	5.9	7.9	4.6	4.6	3.3	5.8	2.6	4.8	3.9	6.4	6.1	5.4	5.1
*ALLSTAR III	112	5.4	6.4	6.0	5.6	4.8	5.1	3.6	3.7	3.7	5.0	4.2	6.3	6.3	5.0	5.1
BAR LP 6162	98	5.2	5.7	6.2	7.6	4.6	5.2	4.3	1.9	4.6	4.5	3.0	5.6	5.6	6.2	5.0
JR-747	20	4.1	5.9	5.2	7.7	4.4	4.7	2.9	4.1	2.9	5.0	4.3	6.4	6.6	5.8	5.0
*SAVANT	5	3.9	6.0	6.0	7.5	4.5	5.2	2.8	4.1	3.4	4.8	4.3	6.2	6.2	4.4	4.9
JR-888	21	4.7	5.7	6.0	3.3	4.5	5.2	3.3	5.4	4.3	4.9	4.1	6.2	5.9	5.2	4.9
*BRIGHTSTAR SLT	113	4.7	5.6	6.4	5.1	4.9	5.1	3.1	4.4	4.1	4.8	3.2	5.9	6.0	4.6	4.8
LPB-SD-105	6	4.4	5.5	6.5	5.2	4.0	4.8	2.4	4.7	3.4	4.9	3.8	6.4	6.3	4.5	4.8
LPB-SD-104	8	4.2	5.9	6.2	5.4	4.6	4.9	2.8	3.7	1.7	4.9	4.7	6.1	6.4	4.7	4.7
*LINN	114	3.9	3.7	4.6	2.0	3.6	2.6	1.0	1.0	2.7	3.1	1.0	5.3	2.9	3.2	2.9
LSD VALUE		1.2	0.8	0.8	4.4	0.8	0.5	1.0	1.5	1.5	0.4	0.9	0.5	0.6	1.2	0.4
C.V. (%)		14.1	7.5	7.1	43.9	10.4	5.2	12.5	18.2	21.2	5.5	11.1	4.9	5.6	11.9	16.5

* COMMERCIALLY AVAILABLE IN THE USA IN 2020

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 6. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2020 DATA

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

NAME	ENTRY #	NJ2	MD1	VA1	KY1	IA1	MO1	KS1	NE1	OR1	MEAN
* PALMER SUPREME (PPG-PR 421)	71	6.8	6.2	7.4	6.7	6.8	5.8	7.1	6.4	6.9	6.7
* FURLONG (LTP-FCB)	79	6.7	6.1	7.3	6.6	6.6	5.7	7.0	6.3	6.8	6.6
* MYSTIQUE (DLFPS-236/3547)	48	6.7	6.0	7.2	6.6	6.6	5.6	7.0	6.2	6.8	6.5
* SLUGGER 3GL (PPG-PR 343)	62	6.5	6.0	7.3	6.5	6.6	5.7	7.0	6.2	6.8	6.5
* ELEKTRA GLR (PPG-PR 371)	66	6.2	6.0	7.4	6.5	6.7	5.7	7.0	6.3	6.8	6.5
* ALLOY (RRT)	56	6.7	6.0	7.2	6.5	6.6	5.6	6.9	6.2	6.7	6.5
DLFPS-236/3552	52	6.3	5.9	7.3	6.5	6.6	5.6	7.0	6.2	6.8	6.5
DLFPS-236/3546	47	6.8	5.9	7.1	6.5	6.6	5.5	7.0	6.3	6.8	6.5
PL2	27	6.4	5.9	7.2	6.5	6.5	5.6	6.9	6.1	6.7	6.4
* ZOOM 2 (DLFPS-236/3545)	24	6.3	5.8	7.2	6.5	6.6	5.6	7.0	6.3	6.8	6.4
PPG-PR 372	67	6.4	5.7	7.2	6.5	6.6	5.5	7.0	6.3	6.8	6.4
* SR 4700 (DLFPS-236/3543)	23	6.8	5.9	7.1	6.4	6.4	5.5	6.8	6.0	6.6	6.4
NP-3	38	6.8	5.7	6.9	6.5	6.5	5.4	6.9	6.3	6.8	6.4
DLFPS-236/3556	33	6.3	5.9	7.2	6.4	6.5	5.5	6.8	6.0	6.6	6.4
* SUPERSTAR GL (PPG-PR 420)	70	6.1	5.7	7.2	6.4	6.6	5.5	7.0	6.3	6.8	6.4
* SHIELD (02BS4)	31	6.2	5.7	7.2	6.4	6.5	5.5	6.9	6.2	6.7	6.4
* SUNBURST (02BS2)	55	6.4	5.9	7.1	6.4	6.4	5.5	6.7	6.0	6.5	6.3
* ALLSTAR FORE (DLFPS-236/3541)	22	6.6	5.8	7.0	6.4	6.4	5.4	6.7	6.0	6.6	6.3
NP-2	39	6.6	5.7	7.0	6.4	6.4	5.4	6.8	6.1	6.7	6.3
* GATOR FORE (DLFPS-236/3544)	15	6.1	5.6	7.1	6.4	6.5	5.4	7.0	6.3	6.8	6.3
PPG-PR 370	65	6.3	5.6	7.0	6.4	6.5	5.4	6.9	6.2	6.8	6.3
* XCELERATOR	17	6.4	5.8	7.0	6.3	6.4	5.4	6.7	6.0	6.5	6.3
021	1	5.9	5.7	7.2	6.3	6.4	5.5	6.8	6.1	6.6	6.3
* HOMERUN LS (PPG-PR 419)	69	6.1	5.4	7.0	6.3	6.5	5.3	7.0	6.3	6.8	6.2
* GATOR CINCO (DLFPS-236/3548)	49	6.5	5.6	6.9	6.3	6.3	5.3	6.8	6.1	6.6	6.2
* APPLE 3GL (PPG-PR 339)	61	5.9	5.4	7.0	6.3	6.5	5.3	7.0	6.4	6.9	6.2
* STELLAR 4GL (PPG-PR 424)	74	6.6	5.3	6.7	6.4	6.4	5.1	7.0	6.4	6.9	6.2
* FASTBALL 3GL (PPG-PR 329)	58	6.0	5.6	7.0	6.3	6.4	5.4	6.8	6.1	6.6	6.2
* HELIOS (DLFPS-236/3538)	77	5.8	5.5	7.1	6.3	6.4	5.4	6.9	6.1	6.6	6.2
* PARAGON 2 GLR (FP2)	54	6.1	5.6	7.0	6.2	6.3	5.4	6.7	6.0	6.5	6.2
* SPIKE GLS (UF3)	18	6.1	5.5	7.0	6.3	6.4	5.3	6.8	6.1	6.6	6.2
PPG-PR 422	72	6.0	5.4	7.0	6.3	6.4	5.3	6.9	6.2	6.7	6.2
APR2616	40	6.0	5.7	7.0	6.2	6.3	5.4	6.7	5.9	6.5	6.2
PORTFOLIO (PPG-PR 423)	73	6.5	5.4	6.7	6.3	6.3	5.2	6.8	6.1	6.7	6.2
PPG-PR 360	63	6.3	5.5	6.8	6.2	6.3	5.2	6.7	6.0	6.6	6.2
PR-6-15	50	5.8	5.3	7.0	6.3	6.5	5.3	7.0	6.3	6.8	6.1
* GRAND SLAM GLD	78	5.9	5.5	7.0	6.2	6.3	5.3	6.7	5.9	6.4	6.1
* CATALYST (023)	53	6.3	5.4	6.7	6.2	6.2	5.1	6.7	6.0	6.5	6.1
* FIESTA CINCO (DLFPS-236/3554)	95	6.4	5.8	7.0	6.3	6.4	5.4	6.8	6.0	6.6	6.1
PPG-PR 385	68	5.9	5.5	6.9	6.1	6.2	5.2	6.6	5.9	6.4	6.1
APR3060	45	5.1	5.4	7.2	6.1	6.4	5.4	6.8	6.0	6.5	6.1
PPG-PR 367	64	5.7	5.2	6.8	6.2	6.3	5.2	6.9	6.2	6.7	6.0

TABLE 6. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2020 DATA

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

NAME	ENTRY #	NJ2	MD1	VA1	KY1	IA1	MO1	KS1	NE1	OR1	MEAN
* SLIDER LS (PPG-PR 241)	57	5.9	5.2	6.8	6.1	6.3	5.1	6.8	6.1	6.6	6.0
* ASP0117 (A-PR15)	35	5.3	5.1	7.0	6.1	6.4	5.2	6.9	6.2	6.6	6.0
* MIGHTIER (DLFPS-236/3542)	14	5.8	5.2	6.8	6.1	6.2	5.1	6.7	6.0	6.5	6.0
* ASP0118GL (A-4G)	36	5.2	5.2	7.0	6.1	6.3	5.2	6.8	6.0	6.5	6.0
* UMPQUA	108	6.4	5.6	6.9	6.3	6.4	5.3	6.8	6.1	6.7	6.0
DLFPS-236/3550	51	5.4	5.0	6.8	6.0	6.3	5.1	6.8	6.1	6.6	5.9
* SIGNET	30	5.6	5.0	6.7	6.0	6.2	5.0	6.8	6.1	6.6	5.9
* PARADOX GLR (PPG-PR 331)	59	5.8	4.9	6.6	6.0	6.2	5.0	6.8	6.2	6.7	5.9
DLFPS-236/3540	13	5.7	4.9	6.6	6.0	6.2	5.0	6.8	6.2	6.6	5.9
* ASP0218 (A-6D)	37	4.4	5.0	7.2	6.0	6.4	5.3	6.9	6.2	6.6	5.9
JR-123	19	5.3	5.0	6.8	6.0	6.2	5.0	6.8	6.1	6.6	5.9
* HATRICK (BSP-17)	2	4.5	5.0	7.1	5.9	6.3	5.2	6.8	6.0	6.4	5.8
REVENGE 2GLX (JR-197)	104	6.2	5.4	7.0	6.4	6.5	5.3	7.0	6.4	6.9	5.8
* SILVER SPORT (PST-2CRP)	85	5.7	5.9	7.5	6.4	6.6	5.7	7.0	6.2	6.7	5.8
DLFPS-236/3553	94	6.3	5.3	6.7	6.2	6.2	5.1	6.7	6.0	6.6	5.8
* INTENSE	16	5.7	5.0	6.5	5.8	6.0	4.8	6.4	5.8	6.3	5.7
BAR LP 6117	80	4.8	4.9	6.8	5.8	6.1	5.0	6.6	5.9	6.4	5.7
MRSL-PR15	28	4.9	5.1	6.9	5.8	6.1	5.0	6.5	5.7	6.2	5.7
BAR LP 6131	81	4.4	4.9	7.0	5.8	6.2	5.1	6.7	6.0	6.4	5.7
* EVOLVE	25	4.6	5.0	6.9	5.8	6.1	5.1	6.6	5.8	6.2	5.7
BAR LP 6159	82	4.7	4.8	6.8	5.8	6.2	5.0	6.7	6.0	6.4	5.7
APR2612	44	4.7	4.9	6.8	5.8	6.1	5.0	6.6	5.8	6.3	5.7
MRSL-PR16	26	4.7	4.9	6.9	5.8	6.1	5.0	6.6	5.8	6.3	5.7
* GREEN SUPREME+ (AMP-R1)	46	4.5	4.9	6.9	5.7	6.1	5.0	6.6	5.8	6.2	5.7
* NEXUS GT (SNX)	29	4.1	5.0	7.1	5.7	6.1	5.1	6.6	5.8	6.2	5.7
* TEE-ME-UP (BSP-25)	4	4.7	5.1	6.9	5.7	6.0	5.0	6.4	5.6	6.0	5.7
CS-6	32	4.6	4.7	6.7	5.7	6.1	4.9	6.6	5.9	6.4	5.6
PR-5-16	96	5.8	5.4	7.1	6.3	6.5	5.4	7.0	6.3	6.8	5.6
* SR 4650	76	5.4	4.5	6.3	5.8	6.0	4.6	6.6	6.0	6.5	5.6
* KARMA	75	5.5	4.5	6.2	5.8	5.9	4.6	6.5	5.9	6.4	5.6
* CAYMAN (GO-143)	43	3.7	4.6	7.0	5.6	6.2	5.1	6.7	6.0	6.3	5.6
PST-2FOXY	84	5.5	5.6	7.3	6.3	6.5	5.5	6.9	6.2	6.7	5.5
* ASP0116EXT	34	4.3	4.5	6.7	5.7	6.1	4.8	6.6	5.9	6.4	5.5
* IVY (PST-2GTD)	88	5.6	5.4	7.1	6.2	6.4	5.3	6.8	6.1	6.5	5.5
* GRAY WOLF (PST-2GAL)	91	5.5	5.3	7.0	6.1	6.3	5.3	6.7	6.0	6.5	5.4
BAR LP 6233	83	5.3	5.5	7.3	6.2	6.5	5.5	6.9	6.1	6.6	5.4
CPN	103	5.8	4.9	6.6	6.1	6.3	5.0	6.8	6.2	6.7	5.4
02BS1	102	5.6	5.2	6.8	6.1	6.3	5.1	6.7	6.0	6.5	5.4
* PHARAOH	111	5.6	5.1	6.7	6.0	6.1	5.0	6.6	5.9	6.4	5.3
* OVERDRIVE 5G	101	5.8	4.8	6.3	5.9	6.0	4.7	6.6	6.0	6.5	5.3
* SEABISCUIT	109	5.4	5.2	6.9	6.0	6.2	5.1	6.6	5.9	6.4	5.3
* BELIZE 2 (GO-142)	42	4.2	4.2	6.4	5.4	5.8	4.5	6.4	5.8	6.2	5.3

TABLE 6. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2020 DATA

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

NAME	ENTRY #	NJ2	MD1	VA1	KY1	IA1	MO1	KS1	NE1	OR1	MEAN
* SWIFT (PST-2A2)	93	5.9	4.6	6.1	5.7	5.8	4.5	6.3	5.8	6.3	5.3
* MAN O WAR	110	5.9	4.6	6.1	5.7	5.8	4.5	6.3	5.7	6.3	5.3
* DERBY XTREME	60	5.1	4.2	6.0	5.4	5.6	4.3	6.3	5.7	6.2	5.3
* FIREBALL (BWH)	3	3.3	4.1	6.6	5.3	5.9	4.6	6.5	5.8	6.2	5.2
GO-141	41	4.1	3.9	6.2	5.4	5.8	4.4	6.5	5.9	6.3	5.2
PST-2MAY	90	5.1	5.2	7.1	6.1	6.4	5.3	6.9	6.2	6.7	5.1
JR-888	21	4.3	3.5	5.9	5.4	5.8	4.2	6.6	6.1	6.5	5.1
PST-2EGAD	86	5.0	5.1	6.9	5.9	6.2	5.1	6.7	6.0	6.4	5.0
BAR LP 6164	99	4.9	5.1	7.1	6.1	6.5	5.3	7.0	6.3	6.7	5.0
LPB-SD-102	11	4.8	3.4	5.6	5.3	5.6	3.9	6.4	6.0	6.4	5.0
* SAGUARO	7	4.8	3.6	5.6	5.3	5.5	3.9	6.3	5.8	6.3	5.0
* GRAY HAWK (PST-2FIND)	87	5.1	4.7	6.5	5.7	6.0	4.8	6.5	5.8	6.3	4.9
* STARBRIGHT GLX (PST-2BDT)	89	5.0	4.7	6.6	5.8	6.1	4.9	6.7	6.0	6.5	4.9
PST-2PDA	92	5.0	4.6	6.5	5.7	5.9	4.7	6.5	5.8	6.3	4.8
* MENSA	9	4.6	3.2	5.4	5.1	5.4	3.7	6.2	5.8	6.3	4.8
JR-747	20	3.6	3.1	5.7	5.1	5.6	3.9	6.4	5.9	6.3	4.8
RAD-PR 112	107	4.7	4.8	6.6	5.6	5.8	4.8	6.3	5.5	6.0	4.7
LPB-SD-101	10	3.9	2.9	5.5	5.1	5.6	3.7	6.5	6.1	6.5	4.7
* SAVANT	5	4.5	3.0	5.2	5.1	5.3	3.6	6.2	5.8	6.2	4.7
LPB-SD-105	6	4.0	2.9	5.4	5.0	5.4	3.7	6.3	5.9	6.3	4.7
LPB-SD-103	12	4.2	2.9	5.3	5.0	5.4	3.6	6.3	5.9	6.3	4.7
BAR LP 6165	100	4.3	5.0	7.2	5.9	6.4	5.3	6.9	6.1	6.5	4.6
LPB-SD-104	8	4.4	3.1	5.1	4.9	5.2	3.5	5.9	5.5	6.0	4.6
BAR LP 6158	97	4.4	4.8	6.9	5.7	6.1	5.0	6.6	5.8	6.3	4.6
* PEPPER II (RAD-PR 103)	106	4.0	4.8	7.1	5.7	6.2	5.1	6.7	5.9	6.3	4.4
DLFPS-238/3014	105	3.6	4.6	7.0	5.5	6.0	5.0	6.5	5.7	6.1	4.1
* ALLSTAR III	112	4.6	3.6	5.6	5.1	5.4	3.9	6.1	5.6	6.0	4.1
BAR LP 6162	98	3.2	4.7	7.1	5.4	6.0	5.0	6.4	5.6	5.9	4.0
* BRIGHTSTAR SLT	113	3.2	3.1	5.9	5.1	5.6	4.0	6.5	6.0	6.3	3.2
* LINN	114	0.5	1.6	4.7	3.2	4.0	2.6	4.7	4.1	4.3	1.0
LSD VALUE		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)		10.8	11.6	8.6	9.7	9.3	11.5	8.6	9.6	8.9	10.2

* COMMERCIALLY AVAILABLE IN THE USA IN 2021

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2020 DATA

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

NAME	ENTRY #	CT1	MN1	UT1	MEAN
STELLAR 4GL (PPG-PR 424)	74	6.7	5.7	6.8	6.4
NP-3	38	6.5	5.6	6.6	6.2
DLFPS-236/3546	47	6.4	5.4	6.5	6.1
PALMER SUPREME (PPG-PR 421)	71	6.4	5.4	6.4	6.1
PORTFOLIO (PPG-PR 423)	73	6.4	5.4	6.4	6.1
HOMERUN LS (PPG-PR 419)	69	6.3	5.2	6.4	6.0
MYSTIQUE (DLFPS-236/3547)	48	6.3	5.3	6.3	6.0
PPG-PR 372	67	6.2	5.2	6.4	5.9
FURLONG (LTP-FCB)	79	6.2	5.2	6.3	5.9
ALLOY (RRT)	56	6.2	5.2	6.3	5.9
PPG-PR 370	65	6.2	5.2	6.3	5.9
APPLE 3GL (PPG-PR 339)	61	6.2	5.1	6.4	5.9
NP-2	39	6.2	5.2	6.2	5.9
GATOR CINCO (DLFPS-236/3548)	49	6.2	5.2	6.2	5.9
SR 4700 (DLFPS-236/3543)	23	6.2	5.2	6.2	5.9
PR-6-15	50	6.1	5.1	6.4	5.9
SUPERSTAR GL (PPG-PR 420)	70	6.1	5.1	6.3	5.8
SLUGGER 3GL (PPG-PR 343)	62	6.1	5.1	6.2	5.8
PARADOX GLR (PPG-PR 331)	59	6.1	5.1	6.3	5.8
REVENGE 2GLX (JR-197)	104	6.3	5.3	6.5	5.8
LPB-SD-102	11	6.1	5.0	6.4	5.8
GATOR FORE (DLFPS-236/3544)	15	6.1	5.1	6.3	5.8
ZOOM 2 (DLFPS-236/3545)	24	6.1	5.1	6.2	5.8
PPG-PR 422	72	6.1	5.0	6.3	5.8
CATALYST (023)	53	6.1	5.1	6.2	5.8
DLFPS-236/3540	13	6.1	5.0	6.3	5.8
ALLSTAR FORE (DLFPS-236/3541)	22	6.1	5.1	6.1	5.8
SLIDER LS (PPG-PR 241)	57	6.1	5.0	6.2	5.8
PPG-PR 360	63	6.1	5.1	6.2	5.8
DLFPS-236/3552	52	6.1	5.0	6.2	5.8
SHIELD (02BS4)	31	6.1	5.0	6.2	5.8
PPG-PR 367	64	6.0	5.0	6.2	5.8
PL2	27	6.0	5.0	6.1	5.7
ELEKTRA GLR (PPG-PR 371)	66	6.0	5.0	6.2	5.7
CPN	103	6.2	5.2	6.4	5.7
UMPQUA	108	6.2	5.2	6.3	5.7
DLFPS-236/3553	94	6.2	5.2	6.3	5.7
SPIKE GLS (UF3)	18	6.0	4.9	6.1	5.7
SAVANT	5	5.9	4.8	6.2	5.7
LPB-SD-101	10	5.9	4.7	6.4	5.7
KARMA	75	6.0	4.9	6.1	5.7
MENSA	9	5.9	4.8	6.2	5.7
XCELERATOR	17	6.0	5.0	6.0	5.6

TABLE 7. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2020 DATA

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

NAME	ENTRY #	CT1	MN1	UT1	MEAN
FASTBALL 3GL (PPG-PR 329)	58	5.9	4.9	6.1	5.6
SIGNET	30	5.9	4.9	6.1	5.6
SR 4650	76	5.9	4.8	6.1	5.6
DLFPS-236/3556	33	5.9	4.9	6.0	5.6
SUNBURST (02BS2)	55	5.9	4.9	6.0	5.6
LPB-SD-103	12	5.9	4.7	6.2	5.6
OVERDRIVE 5G	101	6.1	5.1	6.2	5.6
MIGHTIER (DLFPS-236/3542)	14	5.9	4.8	6.1	5.6
JR-888	21	5.8	4.7	6.2	5.6
SAGUARO	7	5.9	4.8	6.1	5.6
HELIOS (DLFPS-236/3538)	77	5.9	4.8	6.0	5.6
LPB-SD-105	6	5.8	4.6	6.2	5.5
FIESTA CINCO (DLFPS-236/3554)	95	6.0	5.0	6.1	5.5
SWIFT (PST-2A2)	93	6.0	5.0	6.1	5.5
PARAGON 2 GLR (FP2)	54	5.8	4.8	6.0	5.5
DLFPS-236/3550	51	5.8	4.7	6.0	5.5
021	1	5.8	4.7	6.0	5.5
PR-5-16	96	6.0	4.9	6.2	5.5
MAN O WAR	110	6.0	5.0	6.1	5.5
JR-123	19	5.7	4.6	6.0	5.4
PPG-PR 385	68	5.7	4.7	5.9	5.4
ASP0117 (A-PR15)	35	5.7	4.6	6.0	5.4
INTENSE	16	5.7	4.7	5.9	5.4
APR2616	40	5.7	4.7	5.8	5.4
GRAND SLAM GLD	78	5.7	4.7	5.8	5.4
DERBY XTREME	60	5.7	4.6	5.9	5.4
LPB-SD-104	8	5.6	4.6	5.9	5.4
02BS1	102	5.8	4.7	6.0	5.2
ASP0118GL (A-4G)	36	5.5	4.4	5.8	5.2
JR-747	20	5.4	4.2	5.9	5.2
PHARAOH	111	5.7	4.7	5.9	5.2
IVY (PST-2GTD)	88	5.7	4.6	5.9	5.1
SILVER SPORT (PST-2CRP)	85	5.7	4.6	5.9	5.1
PST-2FOXY	84	5.7	4.5	5.9	5.1
BAR LP 6159	82	5.4	4.2	5.7	5.1
PST-2MAY	90	5.6	4.5	6.0	5.1
STARBRIGHT GLX (PST-2BDT)	89	5.6	4.5	5.9	5.1
CS-6	32	5.3	4.2	5.7	5.1
GRAY WOLF (PST-2GAL)	91	5.6	4.5	5.8	5.1
APR3060	45	5.3	4.2	5.6	5.0
GO-141	41	5.3	4.1	5.7	5.0
BAR LP 6117	80	5.3	4.1	5.6	5.0
BAR LP 6164	99	5.6	4.4	5.9	5.0

TABLE 7. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2020 DATA

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

NAME	ENTRY #	CT1	MN1	UT1	MEAN
ASP0218 (A-6D)	37	5.2	4.0	5.7	5.0
GRAY HAWK (PST-2FIND)	87	5.5	4.4	5.8	5.0
ALLSTAR III	112	5.5	4.4	5.8	5.0
ASP0116EXT	34	5.2	4.0	5.6	5.0
SEABISCUIT	109	5.5	4.4	5.7	4.9
BAR LP 6233	83	5.5	4.4	5.8	4.9
APR2612	44	5.2	4.0	5.5	4.9
PST-2PDA	92	5.5	4.4	5.7	4.9
MRSL-PR16	26	5.1	4.0	5.5	4.9
BELIZE 2 (GO-142)	42	5.1	3.9	5.5	4.9
HATRICK (BSP-17)	2	5.1	3.9	5.5	4.9
MRSL-PR15	28	5.1	4.0	5.4	4.8
PST-2EGAD	86	5.4	4.2	5.7	4.8
BAR LP 6131	81	5.1	3.9	5.5	4.8
EVOLVE	25	5.0	3.8	5.4	4.7
GREEN SUPREME+ (AMP-R1)	46	5.0	3.8	5.4	4.7
BRIGHTSTAR SLT	113	5.2	4.0	5.8	4.6
TEE-ME-UP (BSP-25)	4	4.8	3.7	5.1	4.6
CAYMAN (GO-143)	43	4.7	3.5	5.3	4.5
NEXUS GT (SNX)	29	4.7	3.5	5.1	4.4
FIREBALL (BWH)	3	4.7	3.4	5.2	4.4
BAR LP 6165	100	5.0	3.8	5.5	4.4
BAR LP 6158	97	5.0	3.8	5.4	4.4
RAD-PR 112	107	4.9	3.8	5.2	4.4
PEPPER II (RAD-PR 103)	106	4.8	3.6	5.3	4.2
DLFPS-238/3014	105	4.4	3.2	5.0	3.8
BAR LP 6162	98	4.1	2.8	4.7	3.4
LINN	114	2.6	1.2	3.3	1.9
LSD VALUE		0.9	0.9	0.9	0.9
C.V. (%)		10.1	12.5	9.7	10.8

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 8. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2021 DATA

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

NAME	ENTRY #	CT1	NJ2	MN1	UT1	MEAN
* STELLAR 4GL (PPG-PR 424)	74	6.1	6.6	5.3	6.4	6.1
REVENGE 2GLX (JR-197)	104	6.0	6.2	5.0	6.3	6.1
* FURLONG (LTP-FCB)	79	6.1	6.7	5.2	6.3	6.1
DLFPS-236/3546	47	6.1	6.6	5.2	6.3	6.1
* MYSTIQUE (DLFPS-236/3547)	48	6.0	6.3	5.1	6.3	5.9
DLFPS-236/3556	33	5.9	6.5	5.1	6.2	5.9
* FIESTA CINCO (DLFPS-236/3554)	95	5.7	6.1	4.8	5.9	5.9
* SUNBURST (02BS2)	55	5.9	6.4	5.0	6.2	5.9
* UMPQUA	108	5.7	6.1	4.8	5.8	5.9
* SLUGGER 3GL (PPG-PR 343)	62	5.9	6.3	5.0	6.2	5.9
* ALLOY (RRT)	56	6.0	6.0	5.0	6.4	5.9
PL2	27	5.9	6.2	5.0	6.2	5.8
PPG-PR 372	67	6.0	5.9	5.0	6.4	5.8
* PALMER SUPREME (PPG-PR 421)	71	6.0	6.1	5.0	6.2	5.8
* ZOOM 2 (DLFPS-236/3545)	24	5.9	6.1	5.0	6.2	5.8
* SR 4700 (DLFPS-236/3543)	23	5.9	6.2	5.0	6.2	5.8
* MAN O WAR	110	5.5	6.1	4.7	5.6	5.8
DLFPS-236/3552	52	5.9	5.9	4.9	6.4	5.8
021	1	5.8	6.4	4.9	6.0	5.8
* SUPERSTAR GL (PPG-PR 420)	70	5.9	6.0	4.9	6.3	5.8
* CATALYST (023)	53	5.8	6.1	4.9	6.1	5.8
NP-3	38	5.9	5.8	4.9	6.3	5.8
* HOMERUN LS (PPG-PR 419)	69	5.9	5.8	4.9	6.3	5.8
PPG-PR 370	65	5.9	5.8	4.9	6.3	5.7
* GATOR FORE (DLFPS-236/3544)	15	5.9	5.9	4.9	6.2	5.7
* ELEKTRA GLR (PPG-PR 371)	66	5.9	5.9	4.9	6.2	5.7
NP-2	39	5.8	5.9	4.8	6.2	5.7
* PHARAOH	111	5.7	5.7	4.7	6.0	5.7
* SHIELD (02BS4)	31	5.8	6.2	4.9	6.0	5.7
PR-5-16	96	5.7	5.6	4.7	6.0	5.7
* APPLE 3GL (PPG-PR 339)	61	5.9	5.8	4.9	6.1	5.7
* FASTBALL 3GL (PPG-PR 329)	58	5.8	5.9	4.8	6.1	5.7
* GATOR CINCO (DLFPS-236/3548)	49	5.8	5.9	4.8	6.1	5.6
PPG-PR 422	72	5.8	5.6	4.8	6.3	5.6
CPN	103	5.7	5.5	4.7	6.0	5.6
PR-6-15	50	5.8	5.6	4.7	6.3	5.6
* OVERDRIVE 5G	101	5.7	5.5	4.6	6.0	5.6
PPG-PR 360	63	5.8	5.7	4.8	6.1	5.6
PORTFOLIO (PPG-PR 423)	73	5.7	5.9	4.8	5.9	5.6
* XCELERATOR	17	5.7	5.8	4.8	6.0	5.6
02BS1	102	5.7	5.3	4.6	6.1	5.5
* PARADOX GLR (PPG-PR 331)	59	5.7	5.6	4.6	6.1	5.5
DLFPS-236/3553	94	5.7	5.3	4.6	6.0	5.5

TABLE 8. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2021 DATA

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

NAME	ENTRY #	CT1	NJ2	MN1	UT1	MEAN
* ALLSTAR FORE (DLFPS-236/3541)	22	5.6	5.8	4.6	5.9	5.5
DLFPS-236/3550	51	5.6	5.6	4.6	6.0	5.5
* HELIOS (DLFPS-236/3538)	77	5.6	5.8	4.7	5.7	5.5
* SWIFT (PST-2A2)	93	5.6	5.3	4.5	6.0	5.4
* SIGNET	30	5.6	5.3	4.5	6.2	5.4
* SR 4650	76	5.6	5.5	4.6	5.9	5.4
* SEABISCUIT	109	5.5	5.3	4.5	5.6	5.4
* SPIKE GLS (UF3)	18	5.6	5.4	4.6	5.9	5.4
* IVY (PST-2GTD)	88	5.5	5.3	4.5	5.7	5.4
* SILVER SPORT (PST-2CRP)	85	5.6	5.1	4.5	5.9	5.4
* PARAGON 2 GLR (FP2)	54	5.6	5.2	4.5	6.1	5.4
APR2616	40	5.5	5.6	4.5	5.8	5.3
PPG-PR 385	68	5.6	5.3	4.6	5.9	5.3
* GRAY WOLF (PST-2GAL)	91	5.5	5.2	4.5	5.8	5.3
PPG-PR 367	64	5.6	5.1	4.5	6.0	5.3
* SLIDER LS (PPG-PR 241)	57	5.6	5.0	4.5	6.0	5.3
* MIGHTIER (DLFPS-236/3542)	14	5.5	5.2	4.5	6.0	5.3
PST-2MAY	90	5.6	5.0	4.5	6.0	5.3
* KARMA	75	5.5	5.1	4.4	6.0	5.2
PST-2FOXY	84	5.6	4.9	4.5	5.9	5.2
* INTENSE	16	5.4	5.4	4.4	5.8	5.2
* GRAND SLAM GLD	78	5.4	5.4	4.5	5.6	5.2
DLFPS-236/3540	13	5.5	5.0	4.4	6.0	5.2
BAR LP 6233	83	5.3	5.1	4.4	5.4	5.2
PST-2PDA	92	5.2	5.0	4.2	5.5	5.1
* ASP0118GL (A-4G)	36	5.4	4.9	4.3	5.8	5.1
* ASP0117 (A-PR15)	35	5.4	4.7	4.3	5.9	5.1
JR-123	19	5.4	4.8	4.3	5.8	5.1
APR2612	44	5.3	5.0	4.3	5.6	5.0
APR3060	45	5.4	4.8	4.3	5.6	5.0
* STARBRIGHT GLX (PST-2BDT)	89	5.4	4.6	4.2	5.8	5.0
BAR LP 6117	80	5.4	4.7	4.3	5.7	5.0
JR-888	21	5.3	4.6	4.1	5.8	5.0
* GRAY HAWK (PST-2FIND)	87	5.2	4.7	4.1	5.4	4.9
LPB-SD-102	11	5.2	4.6	4.0	5.9	4.9
BAR LP 6165	100	4.9	4.9	4.0	4.9	4.9
PST-2EGAD	86	5.2	4.6	4.1	5.4	4.9
BAR LP 6164	99	5.3	4.5	4.1	5.6	4.9
* DERBY XTREME	60	5.3	4.3	4.0	5.9	4.9
* MENSA	9	5.2	4.5	3.9	5.9	4.9
BAR LP 6159	82	5.3	4.4	4.1	5.6	4.9
BAR LP 6131	81	5.1	4.7	4.1	5.4	4.8
BAR LP 6158	97	5.2	4.5	4.1	5.5	4.8

TABLE 8. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2021 DATA

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

NAME	ENTRY #	CT1	NJ2	MN1	UT1	MEAN
* SAVANT	5	5.1	4.4	3.9	5.8	4.8
LPB-SD-103	12	5.1	4.3	3.8	5.8	4.8
MRSL-PR15	28	5.0	4.6	4.0	5.4	4.8
CS-6	32	5.2	4.2	4.0	5.6	4.7
LPB-SD-104	8	5.0	4.1	3.7	5.9	4.7
* SAGUARO	7	5.1	4.1	3.8	5.7	4.7
* EVOLVE	25	5.1	4.2	3.9	5.4	4.7
* GREEN SUPREME+ (AMP-R1)	46	5.1	4.1	3.9	5.5	4.6
JR-747	20	5.1	3.7	3.7	6.1	4.6
GO-141	41	5.1	3.9	3.8	5.8	4.6
* ALLSTAR III	112	5.0	4.2	3.8	5.6	4.6
* ASP0116EXT	34	5.2	3.8	3.8	5.7	4.6
* HATRICK (BSP-17)	2	5.1	4.1	3.9	5.4	4.6
* ASP0218 (A-6D)	37	5.1	3.7	3.8	5.7	4.6
LPB-SD-101	10	5.0	3.8	3.7	5.7	4.6
RAD-PR 112	107	4.9	4.1	3.8	5.1	4.5
MRSL-PR16	26	5.0	3.9	3.8	5.4	4.5
* TEE-ME-UP (BSP-25)	4	5.0	3.8	3.8	5.5	4.5
* PEPPER II (RAD-PR 103)	106	5.1	3.9	3.8	5.4	4.5
* BELIZE 2 (GO-142)	42	4.9	3.7	3.7	5.4	4.4
* CAYMAN (GO-143)	43	5.0	3.4	3.6	5.5	4.4
* NEXUS GT (SNX)	29	4.9	3.6	3.7	5.3	4.4
LPB-SD-105	6	4.8	3.3	3.4	5.6	4.3
* FIREBALL (BWH)	3	4.8	3.1	3.4	5.4	4.2
DLFPS-238/3014	105	4.8	3.4	3.5	4.9	4.1
* BRIGHTSTAR SLT	113	4.8	3.2	3.4	5.5	4.0
BAR LP 6162	98	4.5	2.8	3.1	4.9	3.6
* LINN	114	3.2	1.0	1.6	4.0	2.1
LSD VALUE		0.8	0.8	0.8	0.8	0.8
C.V. (%)		9.5	10.3	11.9	8.9	10.0

* COMMERCIALLY AVAILABLE IN THE USA IN 2022

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 9. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2021 DATA

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

NAME	ENTRY #	MD1	VA1	IA1	MO1	MEAN
UMPQUA	108	6.5	6.4	5.6	4.7	6.4
BAR LP 6233	83	6.4	6.4	6.2	4.9	6.4
FIESTA CINCO (DLFPS-236/3554)	95	6.4	6.4	5.5	4.7	6.4
SEABISCUIT	109	6.4	6.4	6.0	4.8	6.4
SILVER SPORT (PST-2CRP)	85	6.2	6.5	6.0	4.9	6.3
PHARAOH	111	6.2	6.4	5.6	4.8	6.3
REVENGE 2GLX (JR-197)	104	6.1	6.4	5.0	4.6	6.2
IVY (PST-2GTD)	88	6.1	6.3	5.7	4.7	6.2
MAN O WAR	110	6.2	6.1	5.1	4.4	6.2
PST-2FOXY	84	5.9	6.4	5.8	4.8	6.2
PR-5-16	96	6.0	6.3	5.3	4.6	6.1
GRAY WOLF (PST-2GAL)	91	6.0	6.3	5.6	4.6	6.1
BAR LP 6165	100	6.2	6.0	5.8	4.5	6.1
PST-2EGAD	86	6.0	6.2	5.9	4.6	6.1
02BS1	102	5.8	6.3	5.3	4.6	6.1
DLFPS-236/3553	94	5.8	6.3	5.4	4.6	6.1
CPN	103	5.8	6.3	5.1	4.5	6.0
GRAY HAWK (PST-2FIND)	87	5.9	6.2	5.7	4.5	6.0
BAR LP 6164	99	5.8	6.2	5.8	4.6	6.0
PST-2MAY	90	5.7	6.3	5.4	4.6	6.0
OVERDRIVE 5G	101	5.8	6.2	5.1	4.5	6.0
DLFPS-238/3014	105	5.7	6.2	6.5	4.7	6.0
RAD-PR 112	107	5.8	6.1	5.9	4.5	5.9
APPLE 3GL (PPG-PR 339)	61	6.4	6.6	5.8	4.9	5.9
PST-2PDA	92	5.8	6.1	5.3	4.4	5.9
BAR LP 6158	97	5.6	6.1	5.6	4.5	5.9
HELIOS (DLFPS-236/3538)	77	6.4	6.4	5.7	4.8	5.8
APR3060	45	6.0	6.4	6.0	4.8	5.8
PEPPER II (RAD-PR 103)	106	5.4	6.1	5.8	4.5	5.8
DLFPS-236/3546	47	6.5	6.5	5.3	4.8	5.8
PL2	27	6.4	6.5	5.4	4.8	5.8
PALMER SUPREME (PPG-PR 421)	71	6.3	6.5	5.4	4.8	5.8
SWIFT (PST-2A2)	93	5.4	6.1	4.8	4.3	5.8
XCELERATOR	17	6.3	6.4	5.6	4.8	5.8
ZOOM 2 (DLFPS-236/3545)	24	6.3	6.5	5.4	4.8	5.8
HOMERUN LS (PPG-PR 419)	69	6.1	6.5	5.4	4.8	5.7
STELLAR 4GL (PPG-PR 424)	74	6.4	6.5	5.2	4.8	5.7
FURLONG (LTP-FCB)	79	6.4	6.5	5.1	4.8	5.7
PORTFOLIO (PPG-PR 423)	73	6.3	6.4	5.4	4.7	5.7
PPG-PR 372	67	6.1	6.5	5.3	4.8	5.7
STARBRIGHT GLX (PST-2BDT)	89	5.3	6.1	5.1	4.4	5.7
PPG-PR 367	64	5.9	6.4	5.6	4.7	5.7
SR 4700 (DLFPS-236/3543)	23	6.2	6.4	5.2	4.7	5.7
GATOR FORE (DLFPS-236/3544)	15	6.1	6.5	5.3	4.7	5.6

TABLE 9. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2021 DATA

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

NAME	ENTRY #	MD1	VA1	IA1	MO1	MEAN
BAR LP 6117	80	5.8	6.3	5.7	4.6	5.6
GRAND SLAM GLD	78	6.1	6.2	5.5	4.6	5.6
PPG-PR 385	68	5.9	6.3	5.5	4.6	5.6
NP-3	38	6.0	6.4	5.2	4.7	5.6
MYSTIQUE (DLFPS-236/3547)	48	6.1	6.4	5.0	4.7	5.6
SHIELD (02BS4)	31	6.2	6.3	5.2	4.6	5.6
SLUGGER 3GL (PPG-PR 343)	62	6.2	6.4	5.1	4.6	5.6
PPG-PR 360	63	6.0	6.4	5.3	4.7	5.6
SLIDER LS (PPG-PR 241)	57	5.7	6.4	5.5	4.7	5.6
SUPERSTAR GL (PPG-PR 420)	70	6.0	6.4	5.1	4.7	5.6
FASTBALL 3GL (PPG-PR 329)	58	6.1	6.3	5.2	4.6	5.5
SUNBURST (02BS2)	55	6.2	6.3	5.0	4.6	5.5
ASP0118GL (A-4G)	36	5.8	6.3	5.6	4.6	5.5
021	1	6.3	6.3	5.0	4.6	5.5
ELEKTRA GLR (PPG-PR 371)	66	6.0	6.4	5.1	4.6	5.5
CATALYST (023)	53	6.1	6.3	5.0	4.6	5.5
DLFPS-236/3552	52	5.9	6.4	5.0	4.6	5.5
BAR LP 6159	82	5.6	6.2	5.6	4.5	5.5
DLFPS-236/3556	33	6.2	6.3	4.8	4.5	5.4
MRSL-PR16	26	5.4	6.1	5.8	4.5	5.4
PPG-PR 422	72	5.7	6.3	5.1	4.6	5.4
GATOR CINCO (DLFPS-236/3548)	49	5.9	6.2	5.0	4.5	5.4
SPIKE GLS (UF3)	18	5.8	6.2	5.2	4.5	5.4
NP-2	39	5.9	6.3	5.0	4.5	5.4
PARAGON 2 GLR (FP2)	54	5.6	6.3	5.2	4.5	5.4
ALLOY (RRT)	56	5.8	6.3	4.8	4.6	5.4
EVOLVE	25	5.4	6.1	5.6	4.4	5.4
BAR LP 6131	81	5.7	6.0	5.4	4.4	5.4
HATRICK (BSP-17)	2	5.4	6.0	5.6	4.4	5.3
PR-6-15	50	5.6	6.3	4.9	4.5	5.3
CS-6	32	5.3	6.1	5.5	4.4	5.3
PPG-PR 370	65	5.7	6.3	4.8	4.5	5.3
ALLSTAR FORE (DLFPS-236/3541)	22	5.8	6.1	4.9	4.4	5.3
APR2612	44	5.7	6.0	5.2	4.3	5.3
DLFPS-236/3550	51	5.7	6.1	4.9	4.4	5.3
NEXUS GT (SNX)	29	5.2	6.0	5.6	4.3	5.3
APR2616	40	5.7	6.1	4.9	4.3	5.3
JR-123	19	5.4	6.1	5.1	4.4	5.3
SR 4650	76	5.7	6.1	4.9	4.4	5.2
PARADOX GLR (PPG-PR 331)	59	5.6	6.1	4.8	4.4	5.2
MIGHTIER (DLFPS-236/3542)	14	5.5	6.1	4.9	4.4	5.2
ASP0117 (A-PR15)	35	5.3	6.1	5.0	4.3	5.2
BAR LP 6162	98	4.7	5.7	5.5	4.0	5.2
TEE-ME-UP (BSP-25)	4	5.0	5.9	5.3	4.3	5.1

TABLE 9. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2021 DATA

		TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	ENTRY #	MD1	VA1	IA1	MO1	MEAN
GREEN SUPREME+ (AMP-R1)	46	5.1	5.9	5.2	4.2	5.1
DLFPS-236/3540	13	5.3	6.0	4.8	4.3	5.1
ALLSTAR III	112	4.6	5.5	4.3	3.8	5.1
INTENSE	16	5.5	5.9	4.7	4.2	5.0
ASP0116EXT	34	4.8	6.0	5.2	4.3	5.0
SIGNET	30	5.3	6.0	4.6	4.3	5.0
ASP0218 (A-6D)	37	4.8	5.9	5.2	4.2	5.0
CAYMAN (GO-143)	43	4.7	5.9	5.3	4.2	5.0
KARMA	75	5.2	6.0	4.6	4.2	5.0
BRIGHTSTAR SLT	113	4.3	5.6	4.8	3.9	4.9
BELIZE 2 (GO-142)	42	4.8	5.8	5.0	4.1	4.9
MRSL-PR15	28	5.2	5.7	4.7	4.0	4.9
DERBY XTREME	60	4.8	5.9	4.8	4.1	4.9
FIREBALL (BWH)	3	4.5	5.7	5.2	4.0	4.9
JR-888	21	4.8	5.7	4.3	3.9	4.7
GO-141	41	4.4	5.7	4.5	3.9	4.6
LPB-SD-102	11	4.6	5.6	4.2	3.8	4.6
SAGUARO	7	4.4	5.6	4.3	3.8	4.5
SAVANT	5	4.3	5.4	3.8	3.6	4.3
LPB-SD-101	10	4.1	5.4	4.0	3.6	4.3
LPB-SD-103	12	4.2	5.4	3.8	3.6	4.3
MENSA	9	4.2	5.4	3.7	3.6	4.2
LPB-SD-105	6	3.8	5.3	4.0	3.5	4.2
JR-747	20	3.6	5.3	3.6	3.5	4.0
LPB-SD-104	8	3.8	5.2	3.4	3.4	3.9
LINN	114	2.3	4.0	3.2	2.3	3.2
LSD VALUE		0.8	0.8	0.8	0.8	0.8
C.V. (%)		9.3	8.5	10.1	11.7	9.5

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 10. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2021 DATA

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

NAME	ENTRY #	KS1	NE1	OR1	MEAN
PPG-PR 372	67	6.9	6.9	7.1	7.0
HOMERUN LS (PPG-PR 419)	69	6.8	6.8	7.0	6.9
ALLOY (RRT)	56	6.7	6.8	7.0	6.9
NP-3	38	6.8	6.8	7.0	6.9
STELLAR 4GL (PPG-PR 424)	74	6.7	6.8	7.0	6.8
DLFPS-236/3552	52	6.7	6.8	7.0	6.8
PALMER SUPREME (PPG-PR 421)	71	6.7	6.7	7.0	6.8
GATOR FORE (DLFPS-236/3544)	15	6.7	6.8	7.0	6.8
PPG-PR 422	72	6.7	6.8	6.9	6.8
APPLE 3GL (PPG-PR 339)	61	6.7	6.7	6.9	6.8
PPG-PR 370	65	6.6	6.7	6.9	6.8
SUPERSTAR GL (PPG-PR 420)	70	6.7	6.7	6.9	6.8
SLIDER LS (PPG-PR 241)	57	6.8	6.7	6.9	6.8
ZOOM 2 (DLFPS-236/3545)	24	6.7	6.7	6.9	6.8
MYSTIQUE (DLFPS-236/3547)	48	6.6	6.7	7.0	6.8
PST-2FOXY	84	6.8	6.7	6.8	6.8
PR-6-15	50	6.7	6.7	6.9	6.8
DLFPS-236/3546	47	6.6	6.7	7.0	6.8
PPG-PR 367	64	6.7	6.7	6.9	6.8
02BS1	102	6.7	6.7	6.9	6.7
FURLONG (LTP-FCB)	79	6.6	6.7	7.0	6.7
ELEKTRA GLR (PPG-PR 371)	66	6.6	6.7	6.9	6.7
SILVER SPORT (PST-2CRP)	85	6.7	6.6	6.8	6.7
PL2	27	6.6	6.7	6.9	6.7
PARAGON 2 GLR (FP2)	54	6.7	6.7	6.8	6.7
REVENGE 2GLX (JR-197)	104	6.6	6.7	6.9	6.7
DLFPS-236/3553	94	6.7	6.6	6.8	6.7
PPG-PR 360	63	6.6	6.7	6.9	6.7
PST-2MAY	90	6.7	6.6	6.8	6.7
NP-2	39	6.6	6.6	6.9	6.7
SR 4700 (DLFPS-236/3543)	23	6.6	6.6	6.9	6.7
SLUGGER 3GL (PPG-PR 343)	62	6.5	6.6	6.9	6.7
PHARAOH	111	6.6	6.6	6.8	6.7
PR-5-16	96	6.6	6.6	6.8	6.7
XCELERATOR	17	6.6	6.6	6.8	6.6
SIGNET	30	6.5	6.6	6.8	6.6
CPN	103	6.6	6.6	6.8	6.6
FASTBALL 3GL (PPG-PR 329)	58	6.5	6.6	6.8	6.6
CATALYST (023)	53	6.5	6.6	6.8	6.6
PPG-PR 385	68	6.6	6.5	6.7	6.6
ASP0218 (A-6D)	37	6.7	6.6	6.6	6.6
ASP0116EXT	34	6.6	6.5	6.6	6.6
SUNBURST (02BS2)	55	6.5	6.6	6.8	6.6
OVERDRIVE 5G	101	6.5	6.5	6.7	6.6

TABLE 10. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2021 DATA

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

NAME	ENTRY #	KS1	NE1	OR1	MEAN
DLFPS-236/3540	13	6.5	6.6	6.7	6.6
BAR LP 6117	80	6.6	6.5	6.7	6.6
SWIFT (PST-2A2)	93	6.5	6.5	6.7	6.6
SPIKE GLS (UF3)	18	6.5	6.5	6.7	6.6
GATOR CINCO (DLFPS-236/3548)	49	6.5	6.5	6.8	6.6
DERBY XTREME	60	6.5	6.5	6.6	6.6
ASP0118GL (A-4G)	36	6.6	6.5	6.7	6.6
ASP0117 (A-PR15)	35	6.5	6.5	6.7	6.6
STARBRIGHT GLX (PST-2BDT)	89	6.6	6.5	6.7	6.6
PARADOX GLR (PPG-PR 331)	59	6.4	6.5	6.7	6.6
MIGHTIER (DLFPS-236/3542)	14	6.5	6.5	6.7	6.6
KARMA	75	6.5	6.5	6.7	6.6
DLFPS-236/3556	33	6.4	6.5	6.8	6.6
PORTFOLIO (PPG-PR 423)	73	6.5	6.5	6.7	6.6
APR3060	45	6.6	6.4	6.6	6.6
GRAY WOLF (PST-2GAL)	91	6.5	6.4	6.7	6.5
DLFPS-236/3550	51	6.4	6.5	6.7	6.5
BAR LP 6159	82	6.5	6.4	6.6	6.5
JR-123	19	6.5	6.4	6.6	6.5
SHIELD (02BS4)	31	6.4	6.4	6.7	6.5
BAR LP 6164	99	6.5	6.4	6.6	6.5
JR-747	20	6.4	6.5	6.5	6.5
CS-6	32	6.5	6.4	6.5	6.5
PEPPER II (RAD-PR 103)	106	6.6	6.4	6.5	6.5
CAYMAN (GO-143)	43	6.5	6.4	6.5	6.5
FIESTA CINCO (DLFPS-236/3554)	95	6.4	6.4	6.7	6.5
SR 4650	76	6.4	6.4	6.6	6.5
IVY (PST-2GTD)	88	6.5	6.4	6.6	6.5
GO-141	41	6.4	6.4	6.5	6.5
SEABISCUIT	109	6.5	6.3	6.6	6.5
021	1	6.3	6.4	6.7	6.4
HELIOS (DLFPS-236/3538)	77	6.4	6.3	6.6	6.4
UMPQUA	108	6.4	6.3	6.6	6.4
BAR LP 6158	97	6.5	6.3	6.5	6.4
ALLSTAR FORE (DLFPS-236/3541)	22	6.3	6.4	6.6	6.4
TEE-ME-UP (BSP-25)	4	6.5	6.3	6.4	6.4
MRSL-PR16	26	6.5	6.3	6.4	6.4
BAR LP 6233	83	6.4	6.2	6.5	6.4
GRAND SLAM GLD	78	6.4	6.3	6.5	6.4
HATRICK (BSP-17)	2	6.4	6.3	6.4	6.4
EVOLVE	25	6.4	6.3	6.4	6.4
APR2616	40	6.3	6.3	6.5	6.4
JR-888	21	6.3	6.3	6.5	6.4
GREEN SUPREME+ (AMP-R1)	46	6.4	6.3	6.4	6.4

TABLE 10. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2021 DATA

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

NAME	ENTRY #	KS1	NE1	OR1	MEAN
FIREBALL (BWH)	3	6.4	6.3	6.4	6.4
LPB-SD-102	11	6.3	6.3	6.5	6.4
BRIGHTSTAR SLT	113	6.4	6.3	6.4	6.4
NEXUS GT (SNX)	29	6.4	6.2	6.4	6.4
PST-2EGAD	86	6.4	6.2	6.4	6.3
BELIZE 2 (GO-142)	42	6.4	6.2	6.4	6.3
LPB-SD-101	10	6.3	6.3	6.4	6.3
GRAY HAWK (PST-2FIND)	87	6.3	6.2	6.4	6.3
SAGUARO	7	6.2	6.3	6.4	6.3
APR2612	44	6.3	6.2	6.4	6.3
DLFPS-238/3014	105	6.5	6.1	6.3	6.3
INTENSE	16	6.2	6.2	6.4	6.3
LPB-SD-105	6	6.2	6.3	6.3	6.3
PST-2PDA	92	6.2	6.2	6.4	6.3
MENSA	9	6.1	6.3	6.4	6.3
LPB-SD-103	12	6.1	6.2	6.3	6.2
BAR LP 6131	81	6.2	6.1	6.3	6.2
SAVANT	5	6.1	6.2	6.3	6.2
LPB-SD-104	8	6.1	6.2	6.3	6.2
RAD-PR 112	107	6.3	6.1	6.2	6.2
MAN O WAR	110	6.1	6.1	6.4	6.2
ALLSTAR III	112	6.1	6.1	6.3	6.2
MRSL-PR15	28	6.1	6.0	6.2	6.1
BAR LP 6162	98	6.2	6.0	6.1	6.1
BAR LP 6165	100	6.0	5.8	6.0	5.9
LINN	114	5.0	4.9	4.9	4.9
LSD VALUE		0.8	0.8	0.8	0.8
C.V. (%)		8.0	8.1	7.8	8.0

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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

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

TABLE 11. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE A" * 2017-2021 DATA

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

NAME	IL1	KS1	MI1	NE1	NJ2	MEAN
PALMER SUPREME (PPG-PR 421)	7.2	6.4	5.8	5.9	6.4	6.4
FURLONG (LTP-FCB)	6.1	6.3	6.1	5.8	7.0	6.4
MYSTIQUE (DLFPS-236/3547)	7.2	6.3	5.6	5.5	6.6	6.3
PORTFOLIO (PPG-PR 423)	7.4	6.0	6.2	5.7	6.2	6.3
SLUGGER 3GL (PPG-PR 343)	7.3	6.2	6.0	5.4	6.4	6.3
DLFPS-236/3546	7.1	6.4	5.9	5.4	6.3	6.3
NP-2	7.2	6.1	6.2	5.7	6.3	6.2
REVENGE 2GLX (JR-197)	6.3	6.2	5.8	6.0	6.2	6.2
STELLAR 4GL (PPG-PR 424)	6.4	6.0	5.9	5.8	6.3	6.2
SR 4700 (DLFPS-236/3543)	6.2	6.2	5.9	5.7	6.4	6.2
FIESTA CINCO (DLFPS-236/3554)	7.3	6.2	5.7	5.5	6.1	6.2
PPG-PR 372	6.9	5.9	6.0	5.8	6.1	6.2
ELEKTRA GLR (PPG-PR 371)	6.9	6.3	5.8	5.8	6.0	6.2
FASTBALL 3GL (PPG-PR 329)	7.0	6.3	5.9	5.9	5.8	6.2
DLFPS-236/3556	7.3	6.0	6.0	5.5	6.0	6.2
PR-6-15	7.1	6.1	6.3	5.9	5.7	6.1
HOMERUN LS (PPG-PR 419)	7.2	6.1	5.7	5.9	5.7	6.1
DLFPS-236/3552	6.3	6.1	6.1	5.9	5.8	6.1
ZOOM 2 (DLFPS-236/3545)	6.4	6.2	5.7	5.8	6.0	6.1
XCELERATOR	7.6	6.1	5.9	5.4	5.9	6.1
APPLE 3GL (PPG-PR 339)	7.0	6.1	6.3	5.5	5.7	6.1
SHIELD (02BS4)	7.0	6.0	5.9	5.7	5.8	6.1
PL2	7.3	5.8	6.0	5.5	6.1	6.1
NP-3	7.4	6.2	5.9	5.2	5.9	6.1
SUPERSTAR GL (PPG-PR 420)	6.5	6.3	5.9	5.6	5.8	6.1
GATOR CINCO (DLFPS-236/3548)	7.3	6.2	6.0	5.2	5.9	6.1
APR2616	7.1	5.9	5.8	5.8	5.7	6.1
SILVER SPORT (PST-2CRP)	6.2	6.3	6.1	5.7	5.8	6.1
MIGHTIER (DLFPS-236/3542)	6.5	6.3	5.8	5.6	5.9	6.0
ALLOY (RRT)	5.3	6.3	6.1	5.5	6.4	6.0
GATOR FORE (DLFPS-236/3544)	7.1	6.2	5.5	5.8	5.5	6.0
DLFPS-236/3540	7.2	6.0	5.8	5.9	5.5	6.0
GRAY WOLF (PST-2GAL)	7.0	6.2	5.8	5.6	5.7	6.0
ALLSTAR FORE (DLFPS-236/3541)	5.3	6.1	5.7	5.6	6.3	6.0
OVERDRIVE 5G	7.3	5.9	5.4	5.8	5.7	6.0
PPG-PR 370	6.1	6.1	5.9	5.6	5.8	6.0
PPG-PR 422	7.2	6.0	5.7	5.6	5.5	6.0
DLFPS-236/3550	6.9	6.2	6.1	5.5	5.3	6.0
SWIFT (PST-2A2)	7.2	6.0	6.1	5.1	5.7	6.0
PPG-PR 360	6.1	6.1	5.7	5.5	6.0	6.0
CATALYST (023)	5.3	5.9	6.0	5.7	6.1	6.0
PARADOX GLR (PPG-PR 331)	7.2	6.0	6.1	5.4	5.3	6.0
CPN	6.2	6.0	5.6	5.8	5.7	6.0
SIGNET	6.2	6.1	5.9	5.5	5.7	5.9

TABLE 11. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE A" * 2017-2021 DATA

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

NAME	IL1	KS1	MI1	NE1	NJ2	MEAN
SUNBURST (02BS2)	5.3	6.2	5.8	5.4	6.1	5.9
UMPQUA	6.3	5.8	5.9	5.3	5.9	5.9
INTENSE	7.3	5.9	5.2	5.4	5.9	5.9
PR-5-16	6.3	6.1	5.8	5.5	5.4	5.9
DLFPS-236/3553	6.2	6.1	5.7	5.5	5.8	5.9
SR 4650	7.0	5.9	5.5	5.5	5.3	5.9
02BS1	6.3	5.9	5.4	5.6	5.7	5.9
SPIKE GLS (UF3)	6.3	5.8	5.5	5.4	5.8	5.8
STARBRIGHT GLX (PST-2BDT)	6.0	6.1	5.9	5.9	5.1	5.8
PHARAOH	6.2	6.0	5.9	5.5	5.4	5.8
IVY (PST-2GTD)	5.5	6.1	5.9	5.6	5.4	5.8
PARAGON 2 GLR (FP2)	5.9	6.0	5.4	5.6	5.6	5.8
PPG-PR 367	6.8	6.0	6.1	5.5	5.2	5.8
021	5.2	5.8	6.0	5.4	5.9	5.8
PST-2PDA	6.8	6.0	6.0	5.4	5.1	5.8
ASP0118GL (A-4G)	7.1	6.0	5.4	5.4	5.0	5.8
PST-2EGAD	6.3	6.0	5.6	5.8	4.9	5.8
SEABISCUIT	5.7	6.1	5.9	5.3	5.5	5.8
GRAY HAWK (PST-2FIND)	6.2	6.0	5.8	5.5	5.1	5.8
PST-2FOXY	6.4	6.0	5.6	5.5	5.1	5.8
PPG-PR 385	6.3	6.0	5.5	5.1	5.4	5.7
SLIDER LS (PPG-PR 241)	5.5	5.9	5.7	5.7	5.2	5.7
HELIOS (DLFPS-236/3538)	5.4	6.2	5.7	5.3	5.4	5.7
ASP0117 (A-PR15)	6.3	6.1	5.6	5.5	4.9	5.7
KARMA	7.1	.	5.5	5.5	5.0	5.7
APR3060	6.1	6.2	5.3	5.6	5.0	5.7
BAR LP 6164	7.1	6.0	5.8	5.5	4.5	5.7
BAR LP 6233	6.0	5.8	5.9	5.6	5.0	5.7
BAR LP 6117	7.1	6.2	5.5	5.4	4.5	5.7
APR2612	6.2	6.1	5.5	5.2	5.0	5.7
DERBY XTREME	7.2	5.8	5.8	5.4	4.7	5.7
PST-2MAY	6.3	.	5.7	5.4	5.2	5.7
JR-123	6.0	6.3	5.5	5.2	5.0	5.6
GRAND SLAM GLD	4.8	6.1	5.7	5.3	5.5	5.6
BAR LP 6159	6.1	6.0	5.9	5.5	4.4	5.6
MAN O WAR	4.7	6.0	5.9	5.0	5.6	5.6
LPB-SD-102	6.7	5.6	5.8	5.7	4.5	5.6
BAR LP 6158	6.9	6.2	5.5	5.0	4.5	5.5
CS-6	7.3	5.9	5.8	4.9	4.3	5.5
MRSL-PR16	6.6	6.1	5.5	5.0	4.5	5.5
MENSA	7.0	5.6	5.9	5.3	4.5	5.5
ASP0116EXT	7.2	5.9	5.9	5.1	4.1	5.5
EVOLVE	6.3	6.0	5.8	5.4	4.3	5.5
SAGUARO	7.0	5.8	5.6	5.5	4.3	5.5
MRSL-PR15	6.3	5.8	5.6	5.1	4.6	5.5

TABLE 11. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE A" * 2017-2021 DATA

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

NAME	IL1	KS1	MI1	NE1	NJ2	MEAN
SAVANT	7.0	5.6	6.0	5.5	4.1	5.5
TEE-ME-UP (BSP-25)	7.2	5.9	5.4	4.7	4.5	5.5
RAD-PR 112	7.4	6.0	5.2	4.5	4.6	5.5
ASP0218 (A-6D)	7.1	6.0	5.3	5.1	4.1	5.5
BAR LP 6131	6.8	5.9	5.7	5.4	3.8	5.4
ALLSTAR III	6.1	5.9	5.7	5.2	4.5	5.4
LPB-SD-103	7.2	5.8	5.2	5.3	4.2	5.4
PEPPER II (RAD-PR 103)	6.7	6.0	5.6	4.9	4.3	5.4
BAR LP 6165	6.6	5.3	5.4	5.3	4.4	5.4
NEXUS GT (SNX)	6.5	6.1	5.4	4.9	4.1	5.4
CAYMAN (GO-143)	6.4	6.2	5.0	5.4	3.7	5.3
FIREBALL (BWH)	7.2	6.0	5.6	5.1	3.4	5.3
HATRICK (BSP-17)	6.2	6.0	5.4	4.9	4.1	5.3
GREEN SUPREME+ (AMP-R1)	6.5	6.1	5.4	4.5	4.1	5.3
BELIZE 2 (GO-142)	5.4	6.1	5.2	5.2	4.1	5.3
JR-888	5.3	5.6	5.8	5.5	4.2	5.3
LPB-SD-101	7.0	5.7	5.5	5.5	3.6	5.3
GO-141	6.2	5.9	5.4	5.2	3.9	5.3
JR-747	6.6	5.6	5.1	5.5	3.9	5.3
LPB-SD-104	5.6	5.6	5.5	5.1	4.5	5.3
LPB-SD-105	6.0	5.4	6.0	5.4	3.6	5.1
BRIGHTSTAR SLT	6.1	5.9	5.7	5.3	3.1	5.1
BAR LP 6162	7.2	5.9	4.3	4.7	3.2	5.0
DLFPS-238/3014	6.7	6.0	4.4	4.7	3.3	5.0
LINN	2.5	3.8	3.0	3.8	1.1	2.8
LSD VALUE	2.1	0.6	0.7	0.6	0.9	0.5
C.V. (%)	20.6	6.2	7.3	7.0	10.6	10.8

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

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

TABLE 12. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT TWO LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE B" * 2017-2021 DATA

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

NAME	OR1	VA1	MEAN	NAME	OR1	VA1	MEAN
ZOOM 2 (DLFPS-236/3545)	6.9	7.2	7.1	NP-2	6.8	6.4	6.6
SLUGGER 3GL (PPG-PR 343)	6.9	7.2	7.0	BAR LP 6165	6.1	7.1	6.6
PPG-PR 367	7.1	6.9	7.0	PHARAOH	6.9	6.3	6.6
MYSTIQUE (DLFPS-236/3547)	7.0	6.9	6.9	PPG-PR 385	6.4	6.8	6.6
PPG-PR 372	7.0	6.9	6.9	CATALYST (023)	6.7	6.5	6.6
DLFPS-236/3556	6.9	6.9	6.9	PPG-PR 360	6.7	6.5	6.6
STELLAR 4GL (PPG-PR 424)	7.0	6.8	6.9	PORTFOLIO (PPG-PR 423)	6.7	6.5	6.6
UMPQUA	6.8	7.0	6.9	SHIELD (02BS4)	6.6	6.5	6.6
ALLOY (RRT)	6.9	6.8	6.9	SEABISCUIT	6.7	6.4	6.6
GATOR FORE (DLFPS-236/3544)	6.9	6.8	6.9	PPG-PR 370	6.6	6.5	6.6
HOMERUN LS (PPG-PR 419)	6.8	6.9	6.8	SWIFT (PST-2A2)	6.9	6.2	6.5
FURLONG (LTP-FCB)	7.0	6.7	6.8	SLIDER LS (PPG-PR 241)	6.7	6.4	6.5
SUPERSTAR GL (PPG-PR 420)	6.8	6.8	6.8	FASTBALL 3GL (PPG-PR 329)	6.7	6.4	6.5
PST-2FOXY	7.0	6.7	6.8	DLFPS-236/3546	6.8	6.2	6.5
SILVER SPORT (PST-2CRP)	6.6	7.0	6.8	SIGNET	6.4	6.7	6.5
ELEKTRA GLR (PPG-PR 371)	6.7	6.9	6.8	SUNBURST (02BS2)	6.8	6.2	6.5
REVENGE 2GLX (JR-197)	7.1	6.6	6.8	DLFPS-236/3553	6.8	6.3	6.5
PALMER SUPREME (PPG-PR 421)	6.8	6.8	6.8	ASP0218 (A-6D)	6.6	6.5	6.5
PR-5-16	6.5	7.1	6.8	APR3060	6.1	7.0	6.5
XCELERATOR	6.7	6.8	6.8	BAR LP 6164	6.3	6.8	6.5
ALLSTAR FORE (DLFPS-236/3541)	7.0	6.6	6.8	PEPPER II (RAD-PR 103)	6.5	6.5	6.5
PR-6-15	6.9	6.7	6.8	BAR LP 6117	6.3	6.7	6.5
PPG-PR 422	7.0	6.6	6.8	CS-6	6.5	6.5	6.5
APR2616	6.5	7.0	6.7	ASP0116EXT	6.5	6.5	6.5
021	6.7	6.8	6.7	ASP0117 (A-PR15)	6.5	6.4	6.5
CPN	6.8	6.6	6.7	PARADOX GLR (PPG-PR 331)	6.7	6.2	6.5
PARAGON 2 GLR (FP2)	6.9	6.6	6.7	EVOLVE	6.1	6.8	6.5
GRAY WOLF (PST-2GAL)	6.6	6.9	6.7	BAR LP 6233	6.1	6.9	6.5
MIGHTIER (DLFPS-236/3542)	6.8	6.6	6.7	MRSL-PR16	6.3	6.6	6.4
PL2	6.6	6.8	6.7	PST-2MAY	6.7	6.2	6.4
HELIOS (DLFPS-236/3538)	6.4	7.0	6.7	ASP0118GL (A-4G)	6.7	6.2	6.4
GRAND SLAM GLD	6.6	6.7	6.7	DLFPS-236/3540	6.6	6.3	6.4
02BS1	6.8	6.5	6.7	SR 4650	6.5	6.3	6.4
SR 4700 (DLFPS-236/3543)	6.9	6.5	6.7	NEXUS GT (SNX)	6.4	6.4	6.4
SPIKE GLS (UF3)	6.9	6.4	6.7	PST-2EGAD	6.5	6.3	6.4
DLFPS-236/3552	6.8	6.5	6.7	JR-123	6.7	6.1	6.4
FIESTA CINCO (DLFPS-236/3554)	6.5	6.8	6.7	TEE-ME-UP (BSP-25)	6.5	6.3	6.4
GATOR CINCO (DLFPS-236/3548)	6.7	6.6	6.7	MAN O WAR	6.9	5.9	6.4
DLFPS-236/3550	6.6	6.7	6.7	RAD-PR 112	6.8	6.0	6.4
IVY (PST-2GTD)	6.6	6.7	6.7	BAR LP 6158	6.0	6.7	6.4
NP-3	6.8	6.5	6.7	BAR LP 6131	6.0	6.7	6.3
OVERDRIVE 5G	6.9	6.4	6.7	STARBRIGHT GLX (PST-2BDT)	6.5	6.2	6.3
APPLE 3GL (PPG-PR 339)	7.0	6.3	6.7	BAR LP 6162	6.0	6.7	6.3
INTENSE	6.7	6.6	6.6	KARMA	6.5	6.1	6.3

TABLE 12. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT TWO LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE B" * 2017-2021 DATA

	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/		
NAME	OR1	VA1	MEAN
GRAY HAWK (PST-2FIND)	6.6	6.1	6.3
GO-141	6.2	6.4	6.3
DLFPS-238/3014	6.2	6.4	6.3
GREEN SUPREME+ (AMP-R1)	6.3	6.3	6.3
CAYMAN (GO-143)	6.4	6.2	6.3
JR-747	6.4	6.1	6.3
DERBY XTREME	6.8	5.7	6.3
PST-2PDA	6.2	6.3	6.2
APR2612	6.3	6.1	6.2
BELIZE 2 (GO-142)	6.4	6.1	6.2
BAR LP 6159	6.1	6.3	6.2
MRSL-PR15	6.3	6.1	6.2
LPB-SD-101	6.5	5.7	6.1
LPB-SD-102	6.8	5.5	6.1
HATRICK (BSP-17)	6.4	5.7	6.1
JR-888	6.2	6.0	6.1
FIREBALL (BWH)	6.6	5.6	6.1
SAGUARO	6.3	5.7	6.0
LPB-SD-103	6.4	5.5	5.9
LPB-SD-105	6.4	5.3	5.8
ALLSTAR III	6.3	5.3	5.8
MENSA	6.4	5.2	5.8
LPB-SD-104	6.4	5.2	5.8
SAVANT	6.3	5.2	5.8
BRIGHTSTAR SLT	6.0	5.4	5.7
LINN	5.4	4.5	4.9
LSD VALUE	0.4	1.1	0.6
C.V. (%)	4.1	11.0	8.2

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

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

TABLE 13. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT SEVEN LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE C" * 2017-2021 DATA

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

NAME	CA7	CT1	IA1	MD1	MN1	MO1	UT1	MEAN
FIESTA CINCO (DLFPS-236/3554)	5.8	6.6	6.6	5.8	5.3	5.0	6.4	6.0
PALMER SUPREME (PPG-PR 421)	6.2	6.7	6.5	5.7	5.2	5.0	6.4	6.0
PL2	5.8	6.8	6.4	5.9	5.6	5.0	6.1	5.9
DLFPS-236/3546	5.8	6.7	6.3	5.6	5.7	5.2	6.2	5.9
PPG-PR 372	6.0	6.6	6.4	5.3	5.7	4.8	6.3	5.9
FURLONG (LTP-FCB)	5.9	6.3	6.6	5.2	5.4	5.3	6.4	5.9
GATOR FORE (DLFPS-236/3544)	6.2	6.2	6.4	5.9	5.8	4.7	6.1	5.9
STELLAR 4GL (PPG-PR 424)	6.0	6.9	6.4	5.3	5.6	4.4	6.5	5.9
NP-3	5.9	6.8	6.2	5.1	5.4	4.9	6.5	5.9
PPG-PR 422	6.0	6.8	6.2	5.4	5.5	4.8	6.2	5.8
SUPERSTAR GL (PPG-PR 420)	5.9	6.7	6.4	5.4	5.2	5.2	6.1	5.8
HOMERUN LS (PPG-PR 419)	6.0	6.7	6.3	5.4	5.3	4.6	6.5	5.8
PPG-PR 370	6.0	6.6	6.1	5.5	5.0	4.9	6.6	5.8
SR 4700 (DLFPS-236/3543)	5.7	6.5	6.6	5.8	5.3	4.5	6.3	5.8
SUNBURST (02BS2)	5.8	6.6	6.0	6.0	5.3	4.8	6.2	5.8
HELIOS (DLFPS-236/3538)	5.6	6.5	6.6	5.4	5.0	5.4	5.9	5.8
APPLE 3GL (PPG-PR 339)	5.7	6.3	6.1	5.7	5.5	5.0	6.1	5.8
DLFPS-236/3552	6.0	6.6	6.1	6.0	4.5	4.9	6.3	5.8
ELEKTRA GLR (PPG-PR 371)	5.8	6.5	6.2	5.5	4.6	5.4	6.3	5.8
PORTFOLIO (PPG-PR 423)	5.5	6.6	6.5	5.4	5.4	4.6	6.2	5.8
MYSTIQUE (DLFPS-236/3547)	5.6	6.6	6.6	5.2	5.3	4.8	6.0	5.8
SHIELD (02BS4)	5.9	6.7	6.3	5.8	5.1	4.7	5.8	5.8
NP-2	5.9	6.3	6.4	5.2	5.5	4.4	6.4	5.7
ALLOY (RRT)	5.3	6.8	6.3	5.6	4.8	4.7	6.5	5.7
XCELERATOR	5.7	6.4	6.3	5.4	5.3	4.7	6.3	5.7
PARADOX GLR (PPG-PR 331)	5.7	6.6	6.1	4.9	5.8	4.5	6.3	5.7
GATOR CINCO (DLFPS-236/3548)	5.8	6.5	6.2	5.6	5.0	4.8	6.1	5.7
PPG-PR 360	5.1	6.7	6.3	5.6	5.1	4.6	6.4	5.7
SLUGGER 3GL (PPG-PR 343)	5.6	6.2	6.2	5.7	5.3	4.5	6.4	5.7
DLFPS-236/3553	6.0	6.2	6.1	5.1	5.3	5.0	6.1	5.7
PR-5-16	6.0	6.2	6.2	5.1	5.4	4.7	6.1	5.7
PST-2FOXY	6.1	6.4	6.3	5.6	4.8	4.9	5.9	5.7
PARAGON 2 GLR (FP2)	6.0	5.9	6.3	5.0	5.6	5.0	6.1	5.7
FASTBALL 3GL (PPG-PR 329)	5.1	6.0	6.1	5.6	5.3	5.0	6.3	5.7
021	5.9	6.0	6.7	5.9	5.0	4.3	6.1	5.7
UMPQUA	5.7	6.3	6.9	5.4	5.4	3.9	5.9	5.7
CATALYST (023)	6.2	6.4	6.2	4.9	5.2	4.6	6.1	5.7
PR-6-15	5.8	6.4	6.3	5.4	5.5	4.1	6.1	5.7
CPN	6.0	6.4	6.4	4.8	5.7	4.4	6.0	5.7
ZOOM 2 (DLFPS-236/3545)	5.7	6.7	6.3	5.8	4.8	4.3	6.0	5.6
PST-2MAY	5.9	6.1	6.4	5.4	4.7	4.7	6.4	5.6
SILVER SPORT (PST-2CRP)	5.6	5.6	6.7	5.4	5.2	4.6	6.2	5.6
SPIKE GLS (UF3)	5.8	6.2	6.1	5.5	5.4	4.5	6.0	5.6
REVENGE 2GLX (JR-197)	5.8	6.5	6.5	5.2	5.3	4.4	5.7	5.6

TABLE 13. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT SEVEN LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE C" * 2017-2021 DATA

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

NAME	CA7	CT1	IA1	MD1	MN1	MO1	UT1	MEAN
IVY (PST-2GTD)	6.2	6.3	6.7	5.6	4.6	4.4	5.7	5.6
PPG-PR 367	6.3	6.4	5.8	5.1	5.6	4.4	5.8	5.6
GRAY WOLF (PST-2GAL)	6.1	6.3	6.5	5.1	4.3	4.5	6.3	5.6
DLFPS-236/3540	6.2	6.5	6.2	5.2	5.1	4.0	6.1	5.6
DLFPS-236/3556	5.9	6.1	5.8	5.6	5.7	4.4	5.7	5.6
SLIDER LS (PPG-PR 241)	5.8	6.3	6.2	4.8	5.3	4.5	6.0	5.6
JR-123	6.0	6.4	5.6	5.5	5.0	4.9	5.9	5.6
ALLSTAR FORE (DLFPS-236/3541)	6.0	6.0	5.9	5.9	5.3	4.0	6.2	5.6
PHARAOH	5.7	6.7	6.5	5.3	4.5	4.4	5.9	5.6
GRAND SLAM GLD	6.1	6.1	6.4	5.7	4.8	4.2	5.9	5.6
BAR LP 6164	6.5	5.8	6.5	5.5	4.8	4.5	5.7	5.5
MIGHTIER (DLFPS-236/3542)	6.1	6.4	6.4	5.3	4.1	4.2	6.5	5.5
DLFPS-236/3550	6.3	6.3	5.8	5.4	5.0	4.2	6.2	5.5
SEABISCUIT	6.1	6.1	6.8	5.2	4.6	4.8	5.4	5.5
OVERDRIVE 5G	6.0	6.4	6.3	4.8	5.4	4.0	5.9	5.5
PPG-PR 385	5.9	6.0	6.3	4.9	4.8	4.6	6.0	5.5
ASP0117 (A-PR15)	6.1	5.9	6.1	5.1	5.4	4.2	5.9	5.5
PST-2EGAD	5.9	5.8	6.7	5.4	4.7	4.5	5.5	5.5
02BS1	5.9	6.1	6.4	5.1	4.6	4.1	6.0	5.4
SIGNET	6.0	6.4	6.0	4.9	4.8	4.0	6.2	5.4
ASP0118GL (A-4G)	5.8	5.9	6.4	5.3	4.6	4.3	6.0	5.4
HATRICK (BSP-17)	5.8	5.6	6.4	5.2	4.4	4.6	6.2	5.4
BAR LP 6233	5.8	5.8	6.8	5.1	4.5	4.7	5.4	5.4
APR2616	5.9	6.0	5.9	5.3	4.9	4.3	5.9	5.4
GRAY HAWK (PST-2FIND)	6.3	5.8	6.4	4.8	5.1	4.0	5.7	5.4
BAR LP 6117	6.3	5.7	6.1	5.0	4.5	4.7	5.8	5.4
APR3060	5.9	5.6	6.3	5.0	4.9	4.6	5.5	5.4
SR 4650	5.8	6.1	6.1	4.6	5.3	3.7	6.1	5.4
MAN O WAR	6.0	6.3	6.5	5.0	4.9	3.6	5.5	5.4
ASP0218 (A-6D)	6.0	5.9	5.7	5.0	4.1	4.8	6.2	5.4
BAR LP 6159	6.0	5.5	6.3	5.0	4.7	4.4	5.9	5.3
SWIFT (PST-2A2)	5.9	6.4	6.0	4.9	4.8	3.4	6.1	5.3
ASP0116EXT	6.2	5.3	6.4	4.8	4.8	3.6	6.3	5.3
STARBRIGHT GLX (PST-2BDT)	5.6	6.2	5.9	4.8	4.5	4.4	5.6	5.3
INTENSE	5.9	6.1	6.0	5.4	4.5	3.5	5.9	5.3
MRSL-PR16	6.1	5.1	6.4	5.0	4.6	4.1	5.7	5.2
CS-6	6.0	5.4	5.8	4.9	5.0	3.8	6.0	5.2
PST-2PDA	5.9	5.8	6.2	4.8	4.6	3.7	5.5	5.2
BAR LP 6158	6.0	5.6	6.2	4.4	4.2	4.6	5.5	5.2
PEPPER II (RAD-PR 103)	5.6	5.3	6.4	4.5	3.7	4.7	6.1	5.2
BAR LP 6131	6.1	5.5	6.0	4.9	4.4	4.3	5.3	5.2
DERBY XTREME	5.5	6.1	5.7	4.6	4.6	3.8	5.8	5.2
RAD-PR 112	5.5	5.3	6.6	4.8	4.0	3.9	6.1	5.2
NEXUS GT (SNX)	5.6	5.3	6.2	4.9	3.7	4.5	5.9	5.1
KARMA	5.6	5.9	5.4	4.7	4.7	3.9	5.8	5.1

TABLE 13. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT SEVEN LOCATIONS IN THE U.S. 1/ MAINTAINED USING "SCHEDULE C" * 2017-2021 DATA

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

NAME	CA7	CT1	IA1	MD1	MN1	MO1	UT1	MEAN
EVOLVE	5.6	5.8	5.7	5.2	4.6	4.2	5.1	5.1
GREEN SUPREME+ (AMP-R1)	5.6	5.5	5.8	4.9	4.3	4.1	5.9	5.1
MRSL-PR15	5.8	5.7	6.0	5.0	4.0	3.8	5.6	5.1
APR2612	5.9	5.4	6.0	5.0	3.7	4.2	5.6	5.1
LPB-SD-102	5.4	6.1	5.8	3.6	5.1	3.1	6.0	5.1
CAYMAN (GO-143)	5.8	5.3	5.5	4.8	3.9	4.5	5.7	5.0
JR-888	5.5	5.9	5.4	3.3	5.0	4.2	5.8	5.0
SAGUARO	5.5	5.6	5.5	3.7	5.2	3.6	6.0	5.0
DLFPS-238/3014	5.2	5.3	6.7	4.7	3.5	4.8	4.9	5.0
BAR LP 6165	5.8	5.3	7.0	4.3	3.7	4.2	4.9	5.0
GO-141	6.0	5.7	5.5	4.1	4.6	3.4	5.8	5.0
BELIZE 2 (GO-142)	6.1	5.7	5.2	5.0	4.0	3.6	5.4	4.9
FIREBALL (BWH)	5.5	5.5	6.1	4.3	3.6	4.0	5.7	4.9
TEE-ME-UP (BSP-25)	5.7	5.2	6.3	4.6	3.2	3.9	5.9	4.9
MENSA	5.7	5.9	5.4	3.4	4.5	3.6	5.9	4.9
LPB-SD-101	5.6	6.0	5.4	3.2	4.9	3.0	5.9	4.9
BRIGHTSTAR SLT	5.1	5.5	6.0	3.6	4.4	4.0	5.4	4.9
SAVANT	5.6	6.1	5.4	3.1	3.9	3.6	6.1	4.8
ALLSTAR III	5.8	5.8	5.4	4.0	3.9	3.6	5.5	4.8
LPB-SD-105	5.4	5.4	5.8	2.6	4.7	3.5	6.0	4.8
LPB-SD-103	5.3	5.4	5.7	3.3	5.0	2.7	6.1	4.8
JR-747	5.4	5.6	4.7	2.9	4.0	3.2	6.2	4.6
BAR LP 6162	6.0	4.9	5.7	4.5	2.2	4.3	5.0	4.5
LPB-SD-104	5.1	5.6	5.3	2.9	3.8	2.8	5.9	4.5
LINN	5.0	3.5	4.3	1.1	1.1	3.0	2.8	2.9
LSD VALUE	1.2	0.8	0.9	0.9	1.3	1.2	0.8	0.4
C.V. (%)	12.7	8.5	9.5	11.5	16.3	16.5	8.1	11.7

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

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

TABLE 14. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT TWO LOCATIONS IN THE NORTHEAST REGION 1/ 2017-2021 DATA

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

NAME	CT1	NJ2	MEAN	NAME	CT1	NJ2	MEAN
FURLONG (LTP-FCB)	6.3	7.0	6.6	DLFPS-236/3553	6.2	5.8	6.0
STELLAR 4GL (PPG-PR 424)	6.9	6.3	6.6	FASTBALL 3GL (PPG-PR 329)	6.0	5.8	5.9
ALLOY (RRT)	6.8	6.4	6.6	PARADOX GLR (PPG-PR 331)	6.6	5.3	5.9
PALMER SUPREME (PPG-PR 421)	6.7	6.4	6.6	MAN O WAR	6.3	5.6	5.9
MYSTIQUE (DLFPS-236/3547)	6.6	6.6	6.6	02BS1	6.1	5.7	5.9
DLFPS-236/3546	6.7	6.3	6.5	APR2616	6.0	5.7	5.9
SR 4700 (DLFPS-236/3543)	6.5	6.4	6.5	GATOR FORE (DLFPS-236/3544)	6.2	5.5	5.9
PL2	6.8	6.1	6.4	IVY (PST-2GTD)	6.3	5.4	5.9
PORTFOLIO (PPG-PR 423)	6.6	6.2	6.4	SEABISCUIT	6.1	5.5	5.8
NP-3	6.8	5.9	6.4	PR-5-16	6.2	5.4	5.8
PPG-PR 372	6.6	6.1	6.3	PPG-PR 367	6.4	5.2	5.8
FIESTA CINCO (DLFPS-236/3554)	6.6	6.1	6.3	GRAND SLAM GLD	6.1	5.5	5.8
PPG-PR 360	6.7	6.0	6.3	DLFPS-236/3550	6.3	5.3	5.8
ZOOM 2 (DLFPS-236/3545)	6.7	6.0	6.3	SLIDER LS (PPG-PR 241)	6.3	5.2	5.8
REVENGE 2GLX (JR-197)	6.5	6.2	6.3	PARAGON 2 GLR (FP2)	5.9	5.6	5.8
SUNBURST (02BS2)	6.6	6.1	6.3	SR 4650	6.1	5.3	5.7
NP-2	6.3	6.3	6.3	PPG-PR 385	6.0	5.4	5.7
SLUGGER 3GL (PPG-PR 343)	6.2	6.4	6.3	PST-2FOXY	6.4	5.1	5.7
CATALYST (023)	6.4	6.1	6.3	STARBRIGHT GLX (PST-2BDT)	6.2	5.1	5.7
SUPERSTAR GL (PPG-PR 420)	6.7	5.8	6.3	SILVER SPORT (PST-2CRP)	5.6	5.8	5.7
SHIELD (02BS4)	6.7	5.8	6.2	JR-123	6.4	5.0	5.7
DLFPS-236/3552	6.6	5.8	6.2	PST-2MAY	6.1	5.2	5.6
ELEKTRA GLR (PPG-PR 371)	6.5	6.0	6.2	PST-2PDA	5.8	5.1	5.5
MIGHTIER (DLFPS-236/3542)	6.4	5.9	6.2	KARMA	5.9	5.0	5.5
GATOR CINCO (DLFPS-236/3548)	6.5	5.9	6.2	GRAY HAWK (PST-2FIND)	5.8	5.1	5.4
HOMERUN LS (PPG-PR 419)	6.7	5.7	6.2	ASP0118GL (A-4G)	5.9	5.0	5.4
XCELERATOR	6.4	5.9	6.2	ASP0117 (A-PR15)	5.9	4.9	5.4
PPG-PR 370	6.6	5.8	6.2	BAR LP 6233	5.8	5.0	5.4
ALLSTAR FORE (DLFPS-236/3541)	6.0	6.3	6.1	DERBY XTREME	6.1	4.7	5.4
PPG-PR 422	6.8	5.5	6.1	PST-2EGAD	5.8	4.9	5.4
UMPQUA	6.3	5.9	6.1	LPB-SD-102	6.1	4.5	5.3
PR-6-15	6.4	5.7	6.1	APR3060	5.6	5.0	5.3
PHARAOH	6.7	5.4	6.1	MENSA	5.9	4.5	5.2
DLFPS-236/3556	6.1	6.0	6.0	APR2612	5.4	5.0	5.2
OVERDRIVE 5G	6.4	5.7	6.0	ALLSTAR III	5.8	4.5	5.2
SWIFT (PST-2A2)	6.4	5.7	6.0	BAR LP 6164	5.8	4.5	5.1
SIGNET	6.4	5.7	6.0	MRSL-PR15	5.7	4.6	5.1
CPN	6.4	5.7	6.0	SAVANT	6.1	4.1	5.1
APPLE 3GL (PPG-PR 339)	6.3	5.7	6.0	BAR LP 6158	5.6	4.5	5.1
GRAY WOLF (PST-2GAL)	6.3	5.7	6.0	BAR LP 6117	5.7	4.5	5.1
SPIKE GLS (UF3)	6.2	5.8	6.0	EVOLVE	5.8	4.3	5.1
INTENSE	6.1	5.9	6.0	LPB-SD-104	5.6	4.5	5.1
HELIOS (DLFPS-236/3538)	6.5	5.4	6.0	JR-888	5.9	4.2	5.0
DLFPS-236/3540	6.5	5.5	6.0	ASP0218 (A-6D)	5.9	4.1	5.0
021	6.0	5.9	6.0	SAGUARO	5.6	4.3	5.0

TABLE 14. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT TWO LOCATIONS 1/ IN THE NORTHEAST REGION 2017-2021 DATA

	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/		
NAME	CT1	NJ2	MEAN
BAR LP 6159	5.5	4.4	4.9
RAD-PR 112	5.3	4.6	4.9
BELIZE 2 (GO-142)	5.7	4.1	4.9
TEE-ME-UP (BSP-25)	5.2	4.5	4.9
CS-6	5.4	4.3	4.9
HATRICK (BSP-17)	5.6	4.1	4.8
BAR LP 6165	5.3	4.4	4.8
LPB-SD-103	5.4	4.2	4.8
PEPPER II (RAD-PR 103)	5.3	4.3	4.8
LPB-SD-101	6.0	3.6	4.8
GO-141	5.7	3.9	4.8
MRSL-PR16	5.1	4.5	4.8
JR-747	5.6	3.9	4.8
GREEN SUPREME+ (AMP-R1)	5.5	4.1	4.8
ASP0116EXT	5.3	4.1	4.7
NEXUS GT (SNX)	5.3	4.1	4.7
BAR LP 6131	5.5	3.8	4.7
CAYMAN (GO-143)	5.3	3.7	4.5
LPB-SD-105	5.4	3.6	4.5
FIREBALL (BWH)	5.5	3.4	4.4
DLFPS-238/3014	5.3	3.3	4.3
BRIGHTSTAR SLT	5.5	3.1	4.3
BAR LP 6162	4.9	3.2	4.1
LINN	3.5	1.1	2.3
LSD VALUE	0.8	0.9	0.6
C.V. (%)	8.5	10.6	9.5

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 15. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE TRANSITION REGION 2017-2021 DATA

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

NAME	KS1	KY1	MD1	MO1	VA1	MEAN
ELEKTRA GLR (PPG-PR 371)	6.3	6.3	5.5	5.4	6.9	6.1
HELIOS (DLFPS-236/3538)	6.2	6.4	5.4	5.4	7.0	6.1
FIESTA CINCO (DLFPS-236/3554)	6.2	6.6	5.8	5.0	6.8	6.1
PALMER SUPREME (PPG-PR 421)	6.4	6.7	5.7	5.0	6.8	6.1
SUPERSTAR GL (PPG-PR 420)	6.3	6.6	5.4	5.2	6.8	6.0
SLUGGER 3GL (PPG-PR 343)	6.2	6.6	5.7	4.5	7.2	6.0
GATOR FORE (DLFPS-236/3544)	6.2	6.4	5.9	4.7	6.8	6.0
ZOOM 2 (DLFPS-236/3545)	6.2	6.6	5.8	4.3	7.2	6.0
DLFPS-236/3552	6.1	6.6	6.0	4.9	6.5	6.0
FURLONG (LTP-FCB)	6.3	6.4	5.2	5.3	6.7	5.9
PL2	5.8	6.4	5.9	5.0	6.8	5.9
SILVER SPORT (PST-2CRP)	6.3	6.4	5.4	4.6	7.0	5.9
DLFPS-236/3546	6.4	6.6	5.6	5.2	6.2	5.9
MYSTIQUE (DLFPS-236/3547)	6.3	6.6	5.2	4.8	6.9	5.9
ALLOY (RRT)	6.3	6.4	5.6	4.7	6.8	5.9
PR-5-16	6.1	6.5	5.1	4.7	7.1	5.9
GATOR CINCO (DLFPS-236/3548)	6.2	6.4	5.6	4.8	6.6	5.9
PPG-PR 370	6.1	6.5	5.5	4.9	6.5	5.9
FASTBALL 3GL (PPG-PR 329)	6.3	6.4	5.6	5.0	6.4	5.9
PST-2FOXY	6.0	6.4	5.6	4.9	6.7	5.9
PPG-PR 372	5.9	6.5	5.3	4.8	6.9	5.9
APPLE 3GL (PPG-PR 339)	6.1	6.5	5.7	5.0	6.3	5.9
HOMERUN LS (PPG-PR 419)	6.1	6.4	5.4	4.6	6.9	5.8
SUNBURST (02BS2)	6.2	6.5	6.0	4.8	6.2	5.8
SHIELD (02BS4)	6.0	6.4	5.8	4.7	6.5	5.8
SR 4700 (DLFPS-236/3543)	6.2	6.6	5.8	4.5	6.5	5.8
XCELERATOR	6.1	6.3	5.4	4.7	6.8	5.8
IVY (PST-2GTD)	6.1	6.5	5.6	4.4	6.7	5.8
DLFPS-236/3556	6.0	6.6	5.6	4.4	6.9	5.8
STELLAR 4GL (PPG-PR 424)	6.0	6.5	5.3	4.4	6.8	5.8
PPG-PR 422	6.0	6.3	5.4	4.8	6.6	5.8
GRAY WOLF (PST-2GAL)	6.2	6.3	5.1	4.5	6.9	5.8
NP-3	6.2	6.3	5.1	4.9	6.5	5.7
021	5.8	6.2	5.9	4.3	6.8	5.7
PPG-PR 360	6.1	6.2	5.6	4.6	6.5	5.7
ALLSTAR FORE (DLFPS-236/3541)	6.1	6.6	5.9	4.0	6.6	5.7
BAR LP 6164	6.0	6.1	5.5	4.5	6.8	5.7
APR3060	6.2	6.1	5.0	4.6	7.0	5.7
GRAND SLAM GLD	6.1	6.1	5.7	4.2	6.7	5.7
PARAGON 2 GLR (FP2)	6.0	6.2	5.0	5.0	6.6	5.7
JR-123	6.3	6.0	5.5	4.9	6.1	5.7
BAR LP 6117	6.2	6.0	5.0	4.7	6.7	5.7
PORTFOLIO (PPG-PR 423)	6.0	6.4	5.4	4.6	6.5	5.7
DLFPS-236/3553	6.1	6.1	5.1	5.0	6.3	5.7
BAR LP 6233	5.8	6.3	5.1	4.7	6.9	5.7

TABLE 15. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE TRANSITION REGION 2017-2021 DATA

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

NAME	KS1	KY1	MD1	MO1	VA1	MEAN
PPG-PR 385	6.0	6.3	4.9	4.6	6.8	5.7
APR2616	5.9	6.3	5.3	4.3	7.0	5.7
SEABISCUIT	6.1	6.1	5.2	4.8	6.4	5.7
DLFPS-236/3550	6.2	6.3	5.4	4.2	6.7	5.7
REVENGE 2GLX (JR-197)	6.2	6.5	5.2	4.4	6.6	5.7
PPG-PR 367	6.0	5.9	5.1	4.4	6.9	5.7
MIGHTIER (DLFPS-236/3542)	6.3	6.2	5.3	4.2	6.6	5.7
UMPQUA	5.8	6.4	5.4	3.9	7.0	5.6
PST-2EGAD	6.0	6.3	5.4	4.5	6.3	5.6
ASP0218 (A-6D)	6.0	6.2	5.0	4.8	6.5	5.6
NP-2	6.1	6.3	5.2	4.4	6.4	5.6
PR-6-15	6.1	6.2	5.4	4.1	6.7	5.6
CATALYST (023)	5.9	6.3	4.9	4.6	6.5	5.6
SPIKE GLS (UF3)	5.8	6.2	5.5	4.5	6.4	5.6
EVOLVE	6.0	6.0	5.2	4.2	6.8	5.6
SLIDER LS (PPG-PR 241)	5.9	6.5	4.8	4.5	6.4	5.6
CPN	6.0	6.2	4.8	4.4	6.6	5.6
PST-2MAY	.	6.3	5.4	4.7	6.2	5.6
NEXUS GT (SNX)	6.1	6.2	4.9	4.5	6.4	5.6
PARADOX GLR (PPG-PR 331)	6.0	6.5	4.9	4.5	6.2	5.6
BAR LP 6158	6.2	5.9	4.4	4.6	6.7	5.6
PHARAOH	6.0	6.0	5.3	4.4	6.3	5.5
ASP0118GL (A-4G)	6.0	6.4	5.3	4.3	6.2	5.5
ASP0117 (A-PR15)	6.1	6.2	5.1	4.2	6.4	5.5
SIGNET	6.1	6.2	4.9	4.0	6.7	5.5
MRSL-PR16	6.1	6.2	5.0	4.1	6.6	5.5
BAR LP 6159	6.0	6.1	5.0	4.4	6.3	5.5
BAR LP 6131	5.9	5.8	4.9	4.3	6.7	5.5
PEPPER II (RAD-PR 103)	6.0	5.9	4.5	4.7	6.5	5.5
02BS1	5.9	6.0	5.1	4.1	6.5	5.5
DLFPS-236/3540	6.0	6.3	5.2	4.0	6.3	5.5
DLFPS-238/3014	6.0	5.3	4.7	4.8	6.4	5.5
STARBRIGHT GLX (PST-2BDT)	6.1	6.3	4.8	4.4	6.2	5.5
APR2612	6.1	6.1	5.0	4.2	6.1	5.5
CAYMAN (GO-143)	6.2	5.8	4.8	4.5	6.2	5.5
GREEN SUPREME+ (AMP-R1)	6.1	6.1	4.9	4.1	6.3	5.4
BAR LP 6162	5.9	5.6	4.5	4.3	6.7	5.4
OVERDRIVE 5G	5.9	6.0	4.8	4.0	6.4	5.4
INTENSE	5.9	5.8	5.4	3.5	6.6	5.4
CS-6	5.9	6.1	4.9	3.8	6.5	5.4
HATRICK (BSP-17)	6.0	5.7	5.2	4.6	5.7	5.4
BAR LP 6165	5.3	5.9	4.3	4.2	7.1	5.4
GRAY HAWK (PST-2FIND)	6.0	6.2	4.8	4.0	6.1	5.4
PST-2PDA	6.0	6.1	4.8	3.7	6.3	5.3
ASP0116EXT	5.9	6.1	4.8	3.6	6.5	5.3
SWIFT (PST-2A2)	6.0	6.3	4.9	3.4	6.2	5.3

TABLE 15. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE TRANSITION REGION 2017-2021 DATA

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

NAME	KS1	KY1	MD1	MO1	VA1	MEAN
BELIZE 2 (GO-142)	6.1	6.0	5.0	3.6	6.1	5.3
SR 4650	5.9	6.3	4.6	3.7	6.3	5.3
RAD-PR 112	6.0	6.1	4.8	3.9	6.0	5.3
MRSL-PR15	5.8	6.0	5.0	3.8	6.1	5.3
TEE-ME-UP (BSP-25)	5.9	5.9	4.6	3.9	6.3	5.3
MAN O WAR	6.0	6.0	5.0	3.6	5.9	5.2
KARMA	.	6.2	4.7	3.9	6.1	5.1
DERBY XTREME	5.8	5.9	4.6	3.8	5.7	5.1
GO-141	5.9	5.7	4.1	3.4	6.4	5.1
FIREBALL (BWH)	6.0	5.8	4.3	4.0	5.6	5.1
JR-888	5.6	5.7	3.3	4.2	6.0	5.0
BRIGHTSTAR SLT	5.9	5.5	3.6	4.0	5.4	4.9
SAGUARO	5.8	5.6	3.7	3.6	5.7	4.8
ALLSTAR III	5.9	5.6	4.0	3.6	5.3	4.8
MENSA	5.6	5.5	3.4	3.6	5.2	4.6
LPB-SD-102	5.6	5.5	3.6	3.1	5.5	4.6
JR-747	5.6	5.3	2.9	3.2	6.1	4.6
SAVANT	5.6	5.6	3.1	3.6	5.2	4.6
LPB-SD-101	5.7	5.4	3.2	3.0	5.7	4.6
LPB-SD-103	5.8	5.5	3.3	2.7	5.5	4.5
LPB-SD-105	5.4	5.2	2.6	3.5	5.3	4.4
LPB-SD-104	5.6	5.5	2.9	2.8	5.2	4.4
LINN	3.8	2.8	1.1	3.0	4.5	3.2
LSD VALUE	0.6	0.5	0.9	1.2	1.1	0.5
C.V. (%)	6.2	5.1	11.5	16.5	11.0	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 16. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE NORTH CENTRAL REGION 2017-2021 DATA

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

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
PORTFOLIO (PPG-PR 423)	6.5	7.4	6.2	5.4	5.7	6.1
GATOR FORE (DLFPS-236/3544)	6.4	7.1	5.5	5.8	5.8	6.1
PR-6-15	6.3	7.1	6.3	5.5	5.9	6.1
PPG-PR 372	6.4	6.9	6.0	5.7	5.8	6.1
PALMER SUPREME (PPG-PR 421)	6.5	7.2	5.8	5.2	5.9	6.1
NP-2	6.4	7.2	6.2	5.5	5.7	6.1
PL2	6.4	7.3	6.0	5.6	5.5	6.0
HOMERUN LS (PPG-PR 419)	6.3	7.2	5.7	5.3	5.9	6.0
OVERDRIVE 5G	6.3	7.3	5.4	5.4	5.8	6.0
DLFPS-236/3546	6.3	7.1	5.9	5.7	5.4	6.0
FIESTA CINCO (DLFPS-236/3554)	6.6	7.3	5.7	5.3	5.5	6.0
MYSTIQUE (DLFPS-236/3547)	6.6	7.2	5.6	5.3	5.5	6.0
STELLAR 4GL (PPG-PR 424)	6.4	6.4	5.9	5.6	5.8	6.0
PARADOX GLR (PPG-PR 331)	6.1	7.2	6.1	5.8	5.4	6.0
FURLONG (LTP-FCB)	6.6	6.1	6.1	5.4	5.8	6.0
APPLE 3GL (PPG-PR 339)	6.1	7.0	6.3	5.5	5.5	6.0
REVENGE 2GLX (JR-197)	6.5	6.3	5.8	5.3	6.0	6.0
XCELERATOR	6.3	7.6	5.9	5.3	5.4	5.9
SILVER SPORT (PST-2CRP)	6.7	6.2	6.1	5.2	5.7	5.9
PPG-PR 422	6.2	7.2	5.7	5.5	5.6	5.9
UMPQUA	6.9	6.3	5.9	5.4	5.3	5.9
DLFPS-236/3540	6.2	7.2	5.8	5.1	5.9	5.9
FASTBALL 3GL (PPG-PR 329)	6.1	7.0	5.9	5.3	5.9	5.9
CPN	6.4	6.2	5.6	5.7	5.8	5.9
SLUGGER 3GL (PPG-PR 343)	6.2	7.3	6.0	5.3	5.4	5.9
DLFPS-236/3556	5.8	7.3	6.0	5.7	5.5	5.9
SHIELD (02BS4)	6.3	7.0	5.9	5.1	5.7	5.9
NP-3	6.2	7.4	5.9	5.4	5.2	5.9
SR 4700 (DLFPS-236/3543)	6.6	6.2	5.9	5.3	5.7	5.9
PPG-PR 367	5.8	6.8	6.1	5.6	5.5	5.9
BAR LP 6164	6.5	7.1	5.8	4.8	5.5	5.9
SUPERSTAR GL (PPG-PR 420)	6.4	6.5	5.9	5.2	5.6	5.8
SR 4650	6.1	7.0	5.5	5.3	5.5	5.8
PR-5-16	6.2	6.3	5.8	5.4	5.5	5.8
PST-2EGAD	6.7	6.3	5.6	4.7	5.8	5.8
GATOR CINCO (DLFPS-236/3548)	6.2	7.3	6.0	5.0	5.2	5.8
PARAGON 2 GLR (FP2)	6.3	5.9	5.4	5.6	5.6	5.8
ELEKTRA GLR (PPG-PR 371)	6.2	6.9	5.8	4.6	5.8	5.7
GRAY HAWK (PST-2FIND)	6.4	6.2	5.8	5.1	5.5	5.7
APR2616	5.9	7.1	5.8	4.9	5.8	5.7
ZOOM 2 (DLFPS-236/3545)	6.3	6.4	5.7	4.8	5.8	5.7
ASP0117 (A-PR15)	6.1	6.3	5.6	5.4	5.5	5.7
SPIKE GLS (UF3)	6.1	6.3	5.5	5.4	5.4	5.7
DLFPS-236/3553	6.1	6.2	5.7	5.3	5.5	5.7
BAR LP 6233	6.8	6.0	5.9	4.5	5.6	5.7

TABLE 16. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE NORTH CENTRAL REGION 2017-2021 DATA

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

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
GRAY WOLF (PST-2GAL)	6.5	7.0	5.8	4.3	5.6	5.7
DLFPS-236/3550	5.8	6.9	6.1	5.0	5.5	5.7
ASP0116EXT	6.4	7.2	5.9	4.8	5.1	5.7
PPG-PR 360	6.3	6.1	5.7	5.1	5.5	5.7
SLIDER LS (PPG-PR 241)	6.2	5.5	5.7	5.3	5.7	5.7
DLFPS-236/3552	6.1	6.3	6.1	4.5	5.9	5.7
PPG-PR 370	6.1	6.1	5.9	5.0	5.6	5.7
LPB-SD-102	5.8	6.7	5.8	5.1	5.7	5.7
ASP0118GL (A-4G)	6.4	7.1	5.4	4.6	5.4	5.7
PST-2PDA	6.2	6.8	6.0	4.6	5.4	5.7
02BS1	6.4	6.3	5.4	4.6	5.6	5.7
APR3060	6.3	6.1	5.3	4.9	5.6	5.7
CATALYST (023)	6.2	5.3	6.0	5.2	5.7	5.6
021	6.7	5.2	6.0	5.0	5.4	5.6
IVY (PST-2GTD)	6.7	5.5	5.9	4.6	5.6	5.6
PST-2FOXY	6.3	6.4	5.6	4.8	5.5	5.6
SWIFT (PST-2A2)	6.0	7.2	6.1	4.8	5.1	5.6
PHARAOH	6.5	6.2	5.9	4.5	5.5	5.6
SEABISCUIT	6.8	5.7	5.9	4.6	5.3	5.6
PST-2MAY	6.4	6.3	5.7	4.7	5.4	5.6
SAGUARO	5.5	7.0	5.6	5.2	5.5	5.6
BAR LP 6159	6.3	6.1	5.9	4.7	5.5	5.6
HELIOS (DLFPS-236/3538)	6.6	5.4	5.7	5.0	5.3	5.6
BAR LP 6117	6.1	7.1	5.5	4.5	5.4	5.6
CS-6	5.8	7.3	5.8	5.0	4.9	5.6
SIGNET	6.0	6.2	5.9	4.8	5.5	5.6
ALLSTAR FORE (DLFPS-236/3541)	5.9	5.3	5.7	5.3	5.6	5.6
INTENSE	6.0	7.3	5.2	4.5	5.4	5.6
PPG-PR 385	6.3	6.3	5.5	4.8	5.1	5.5
DERBY XTREME	5.7	7.2	5.8	4.6	5.4	5.5
LPB-SD-103	5.7	7.2	5.2	5.0	5.3	5.5
STARBRIGHT GLX (PST-2BDT)	5.9	6.0	5.9	4.5	5.9	5.5
BAR LP 6165	7.0	6.6	5.4	3.7	5.3	5.5
MIGHTIER (DLFPS-236/3542)	6.4	6.5	5.8	4.1	5.6	5.5
BAR LP 6131	6.0	6.8	5.7	4.4	5.4	5.5
MRSL-PR16	6.4	6.6	5.5	4.6	5.0	5.5
SUNBURST (02BS2)	6.0	5.3	5.8	5.3	5.4	5.5
LPB-SD-101	5.4	7.0	5.5	4.9	5.5	5.5
ALLOY (RRT)	6.3	5.3	6.1	4.8	5.5	5.5
KARMA	5.4	7.1	5.5	4.7	5.5	5.5
BAR LP 6158	6.2	6.9	5.5	4.2	5.0	5.4
EVOLVE	5.7	6.3	5.8	4.6	5.4	5.4
JR-123	5.6	6.0	5.5	5.0	5.2	5.4
LPB-SD-105	5.8	6.0	6.0	4.7	5.4	5.4
BRIGHTSTAR SLT	6.0	6.1	5.7	4.4	5.3	5.4
MAN O WAR	6.5	4.7	5.9	4.9	5.0	5.4

TABLE 16. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE NORTH CENTRAL REGION 2017-2021 DATA

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

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
MENSA	5.4	7.0	5.9	4.5	5.3	5.4
HATRICK (BSP-17)	6.4	6.2	5.4	4.4	4.9	5.4
RAD-PR 112	6.6	7.4	5.2	4.0	4.5	5.4
GRAND SLAM GLD	6.4	4.8	5.7	4.8	5.3	5.4
FIREBALL (BWH)	6.1	7.2	5.6	3.6	5.1	5.3
JR-888	5.4	5.3	5.8	5.0	5.5	5.3
PEPPER II (RAD-PR 103)	6.4	6.7	5.6	3.7	4.9	5.3
SAVANT	5.4	7.0	6.0	3.9	5.5	5.3
ASP0218 (A-6D)	5.7	7.1	5.3	4.1	5.1	5.3
MRSL-PR15	6.0	6.3	5.6	4.0	5.1	5.3
GO-141	5.5	6.2	5.4	4.6	5.2	5.2
APR2612	6.0	6.2	5.5	3.7	5.2	5.2
DLFPS-238/3014	6.7	6.7	4.4	3.5	4.7	5.2
NEXUS GT (SNX)	6.2	6.5	5.4	3.7	4.9	5.2
GREEN SUPREME+ (AMP-R1)	5.8	6.5	5.4	4.3	4.5	5.1
CAYMAN (GO-143)	5.5	6.4	5.0	3.9	5.4	5.1
TEE-ME-UP (BSP-25)	6.3	7.2	5.4	3.2	4.7	5.1
ALLSTAR III	5.4	6.1	5.7	3.9	5.2	5.1
JR-747	4.7	6.6	5.1	4.0	5.5	5.0
BELIZE 2 (GO-142)	5.2	5.4	5.2	4.0	5.2	4.9
LPB-SD-104	5.3	5.6	5.5	3.8	5.1	4.9
BAR LP 6162	5.7	7.2	4.3	2.2	4.7	4.6
LINN	4.3	2.5	3.0	1.1	3.8	3.0
LSD VALUE	0.9	2.1	0.7	1.3	0.6	0.6
C.V. (%)	9.5	20.6	7.3	16.3	7.0	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 17. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/ 2017-2021 DATA

	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PPG-PR 370	5.7	6.7	6.9	5.9	7.1	7.2	6.5	6.6
ALLOY (RRT)	5.2	6.6	6.5	6.0	7.0	7.4	6.6	6.5
MIGHTIER (DLFPS-236/3542)	5.4	6.7	6.6	5.9	6.5	7.3	6.7	6.5
STELLAR 4GL (PPG-PR 424)	5.8	6.5	6.7	5.7	6.5	7.5	6.5	6.5
NP-3	5.4	6.5	6.8	6.2	6.4	7.1	6.3	6.5
HOMERUN LS (PPG-PR 419)	5.2	6.6	6.6	6.0	6.8	7.1	6.3	6.5
FIESTA CINCO (DLFPS-236/3554)	5.9	6.7	6.7	5.7	6.5	7.1	6.2	6.4
SLUGGER 3GL (PPG-PR 343)	5.3	6.9	6.9	5.9	6.3	7.0	6.1	6.4
FURLONG (LTP-FCB)	4.9	6.1	6.7	6.3	6.9	7.1	6.3	6.4
PALMER SUPREME (PPG-PR 421)	5.1	6.3	6.5	6.1	6.8	7.1	6.2	6.4
PPG-PR 360	5.4	6.3	6.5	6.3	6.5	7.0	6.3	6.4
PST-2MAY	5.3	6.4	6.4	6.1	6.5	6.9	6.6	6.4
NP-2	5.9	6.5	6.5	5.7	6.0	7.3	6.3	6.4
FASTBALL 3GL (PPG-PR 329)	5.2	6.7	6.3	5.8	6.4	7.0	6.4	6.3
GRAY WOLF (PST-2GAL)	5.3	6.4	6.5	6.0	6.5	6.9	6.3	6.3
PARADOX GLR (PPG-PR 331)	5.1	6.1	6.1	5.9	7.0	7.1	6.5	6.3
ELEKTRA GLR (PPG-PR 371)	5.7	6.4	6.6	6.1	6.4	6.8	6.1	6.3
DLFPS-236/3552	5.0	6.5	6.5	5.8	6.5	7.1	6.2	6.3
ASP0116EXT	5.1	6.3	6.6	5.7	6.4	7.1	6.5	6.3
XCELERATOR	5.4	6.3	6.2	5.7	6.7	7.1	6.3	6.3
SR 4700 (DLFPS-236/3543)	5.3	6.3	6.2	6.1	6.5	7.0	6.1	6.3
PPG-PR 372	4.9	6.3	6.7	5.9	6.1	7.0	6.3	6.3
SIGNET	5.3	6.4	6.9	5.7	6.3	6.5	6.1	6.2
SILVER SPORT (PST-2CRP)	4.9	6.3	6.3	5.9	6.5	7.1	6.3	6.2
ASP0218 (A-6D)	5.7	6.3	6.2	5.6	6.3	7.1	6.3	6.2
HATRICK (BSP-17)	6.0	6.2	6.4	5.7	6.1	7.2	5.9	6.2
JR-747	4.3	5.9	6.8	6.1	6.4	7.2	5.9	6.2
SUNBURST (02BS2)	5.4	5.9	5.8	6.0	6.6	7.1	6.4	6.2
PPG-PR 422	4.9	5.8	6.3	5.9	6.4	7.3	6.3	6.2
DLFPS-236/3550	5.7	6.3	6.1	5.9	6.5	6.9	6.1	6.2
PORTFOLIO (PPG-PR 423)	5.3	6.3	6.4	5.7	6.2	7.1	6.1	6.2
ALLSTAR FORE (DLFPS-236/3541)	5.8	6.1	6.3	5.7	6.1	6.9	6.3	6.2
DLFPS-236/3546	4.9	6.3	6.5	5.6	6.1	6.8	6.3	6.2
APPLE 3GL (PPG-PR 339)	4.8	6.2	6.3	5.7	6.1	7.0	6.3	6.1
LPB-SD-103	5.2	5.9	6.3	5.5	6.5	7.0	6.2	6.1
GATOR CINCO (DLFPS-236/3548)	4.8	6.3	6.5	5.9	6.2	6.8	5.8	6.1
SUPERSTAR GL (PPG-PR 420)	5.0	6.3	6.1	5.7	6.3	6.9	6.1	6.1
021	5.4	6.3	5.7	5.7	6.2	6.9	6.3	6.1
PR-5-16	4.9	6.3	5.9	5.5	6.3	6.9	6.3	6.1
PR-6-15	4.9	6.4	6.3	5.7	6.0	6.6	6.1	6.1
CATALYST (023)	4.6	5.8	6.1	5.7	6.2	7.1	6.5	6.1
PARAGON 2 GLR (FP2)	5.4	6.3	6.1	5.4	6.0	6.9	6.2	6.1
SR 4650	5.0	6.3	6.1	5.7	6.1	6.9	5.9	6.1
PL2	5.2	6.2	6.3	5.4	5.6	7.1	6.2	6.1
PEPPER II (RAD-PR 103)	5.3	6.1	6.4	5.6	6.1	7.0	5.8	6.1

TABLE 17. (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/ 2017-2021 DATA

	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-236/3540	4.9	6.3	6.3	5.5	6.1	6.9	5.9	6.1
SAVANT	4.2	5.3	6.3	5.7	6.8	7.1	6.3	6.1
SWIFT (PST-2A2)	5.0	6.3	6.0	5.6	6.1	6.9	6.0	6.1
DLFPS-236/3553	5.0	6.4	6.2	5.7	6.1	6.5	6.1	6.1
RAD-PR 112	6.0	6.1	6.5	5.3	5.9	6.8	5.9	6.1
GATOR FORE (DLFPS-236/3544)	5.2	6.1	5.8	5.7	6.2	6.9	6.1	6.1
SLIDER LS (PPG-PR 241)	4.8	6.2	6.2	5.5	6.1	6.8	6.2	6.0
ZOOM 2 (DLFPS-236/3545)	5.4	5.9	6.0	5.4	6.1	7.1	6.0	6.0
LPB-SD-102	4.3	5.5	6.5	5.7	6.5	6.9	6.1	6.0
MYSTIQUE (DLFPS-236/3547)	5.1	6.0	6.0	5.9	5.9	6.7	6.1	6.0
LPB-SD-105	3.8	5.2	6.1	6.2	6.7	7.3	5.9	6.0
CPN	5.4	6.1	6.0	5.3	5.8	7.0	6.3	6.0
SPIKE GLS (UF3)	5.3	6.0	5.9	5.7	6.1	6.7	6.1	6.0
CS-6	5.4	6.5	6.2	5.5	5.5	6.5	6.3	6.0
SAGUARO	5.2	6.1	6.3	5.5	6.1	6.6	5.9	6.0
02BS1	5.4	6.0	5.9	5.3	5.9	6.9	6.3	6.0
ASP0118GL (A-4G)	5.9	5.9	5.9	5.7	5.6	6.8	6.1	6.0
PPG-PR 385	5.4	6.0	5.8	5.7	6.0	6.7	5.8	6.0
TEE-ME-UP (BSP-25)	5.6	5.6	6.2	5.7	5.9	6.8	5.9	5.9
MENSA	4.3	5.5	6.6	5.3	6.3	6.8	5.9	5.9
LPB-SD-104	4.0	5.3	6.3	5.6	6.3	7.1	6.1	5.9
LPB-SD-101	4.6	5.7	5.9	5.7	6.3	6.7	6.1	5.9
BAR LP 6159	5.4	6.5	5.9	5.5	5.9	6.5	5.6	5.9
GRAND SLAM GLD	5.3	5.9	5.9	5.3	6.1	6.6	5.9	5.9
NEXUS GT (SNX)	5.9	6.1	5.9	5.4	5.5	6.7	6.1	5.9
OVERDRIVE 5G	5.8	6.1	6.0	5.1	5.9	6.4	6.1	5.9
PST-2FOXY	5.1	5.6	6.0	5.5	6.1	6.7	6.0	5.9
HELIOS (DLFPS-236/3538)	5.1	6.1	5.9	5.4	6.1	6.5	5.9	5.9
ASP0117 (A-PR15)	5.4	6.5	6.1	5.1	5.4	6.7	5.7	5.9
APR2616	5.3	5.9	5.9	5.3	6.3	6.7	5.9	5.9
GREEN SUPREME+ (AMP-R1)	5.1	5.7	5.9	5.3	5.8	7.0	6.1	5.9
PHARAOH	5.6	6.3	5.8	5.2	5.8	6.6	5.8	5.9
INTENSE	5.7	6.0	5.6	5.4	5.5	6.7	6.1	5.9
UMPQUA	5.4	5.8	5.5	5.6	5.9	6.6	5.9	5.9
JR-123	5.2	5.9	6.1	5.2	5.8	6.7	5.9	5.9
PPG-PR 367	5.2	6.0	5.8	5.1	5.9	6.6	6.1	5.8
KARMA	4.6	6.1	6.1	5.2	5.7	6.6	5.8	5.8
GO-141	4.8	6.3	6.0	5.1	5.5	6.7	5.9	5.8
JR-888	4.7	5.3	6.1	5.7	5.9	6.7	5.8	5.8
SHIELD (02BS4)	4.8	5.8	6.0	5.3	6.0	6.3	5.9	5.8
DERBY XTREME	4.4	5.9	5.9	5.0	5.5	7.1	6.1	5.8
BAR LP 6117	5.6	6.4	5.5	5.1	5.7	6.5	5.4	5.8
MRSL-PR16	5.0	5.7	5.6	5.3	5.7	6.7	5.9	5.7
DLFPS-236/3556	5.2	5.8	5.7	5.3	5.6	6.5	5.8	5.7
CAYMAN (GO-143)	5.0	5.9	5.5	5.1	5.8	6.5	6.0	5.7
FIREBALL (BWH)	5.9	5.9	5.7	4.9	5.8	6.6	5.7	5.7

TABLE 17. (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/ 2017-2021 DATA

	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/							
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
IVY (PST-2GTD)	5.0	5.9	5.9	5.3	5.5	6.6	5.7	5.7
REVENGE 2GLX (JR-197)	5.3	5.7	5.5	5.2	5.8	6.5	5.7	5.7
GRAY HAWK (PST-2FIND)	4.8	5.7	5.7	5.1	5.6	6.7	5.9	5.7
BAR LP 6164	4.9	5.6	5.4	5.3	5.9	6.3	5.8	5.7
STARBRIGHT GLX (PST-2BDT)	5.0	6.1	5.8	4.9	5.1	6.3	5.9	5.6
MRSL-PR15	4.9	5.9	5.8	5.3	5.5	6.3	5.4	5.6
APR2612	4.2	5.5	5.5	5.3	5.9	6.3	5.9	5.6
PST-2EGAD	5.4	5.5	5.2	4.8	5.4	6.7	5.9	5.5
PST-2PDA	5.2	5.3	5.0	5.2	5.5	6.5	5.9	5.5
MAN O WAR	5.1	5.8	5.5	5.0	5.2	6.3	5.6	5.5
APR3060	4.2	5.5	5.7	5.3	5.6	6.3	5.5	5.5
ALLSTAR III	5.6	5.2	5.3	4.7	5.4	6.3	5.9	5.5
BAR LP 6158	5.0	5.9	5.5	4.9	5.5	5.7	5.4	5.5
BRIGHTSTAR SLT	5.3	5.8	5.1	4.6	5.0	6.3	5.7	5.4
BAR LP 6233	5.2	5.0	5.1	5.2	5.7	5.8	5.5	5.4
BELIZE 2 (GO-142)	5.0	5.8	5.1	4.6	4.9	6.5	5.7	5.4
SEABISCUIT	4.9	5.3	5.1	4.9	5.5	6.2	5.7	5.4
BAR LP 6131	4.9	5.5	4.9	4.9	5.3	6.3	5.3	5.3
EVOLVE	5.1	5.5	4.7	4.5	4.9	5.6	5.3	5.1
BAR LP 6162	4.4	5.1	5.1	4.6	4.5	5.7	5.3	5.0
DLFPS-238/3014	4.8	4.9	5.3	4.3	4.3	5.7	5.3	4.9
BAR LP 6165	4.1	4.6	5.1	4.7	4.6	5.4	5.1	4.9
LINN	3.9	2.2	2.5	2.7	2.5	3.3	3.2	2.8
LSD VALUE	1.0	0.8	0.6	0.6	0.7	0.7	1.0	0.4
C.V. (%)	22.0	18.4	13.8	15.6	16.2	15.3	24.0	9.8

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

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

TABLE 18. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT FRESNO, CA (IN THE SOUTHWEST REGION) 1/
2017-2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BAR LP 6164	7.2	6.9	7.0	6.4	6.4	5.3	4.7	5.3	7.0	7.1	7.3	7.0	6.5
GRAY HAWK (PST-2FIND)	7.1	7.1	6.8	6.4	6.0	5.0	4.7	5.1	6.7	7.1	7.1	7.0	6.3
BAR LP 6117	7.1	6.8	6.8	6.4	6.1	4.8	4.7	5.3	7.0	7.2	6.8	6.8	6.3
DLFPS-236/3550	7.0	7.1	6.8	6.3	6.1	5.0	4.9	4.9	6.6	6.8	6.9	7.0	6.3
PPG-PR 367	7.0	7.1	6.9	6.2	6.1	4.9	4.6	4.8	6.3	6.8	7.4	7.2	6.3
ASP0116EXT	6.6	7.0	6.6	5.8	6.1	5.2	4.6	5.2	6.6	7.0	6.8	7.1	6.2
PALMER SUPREME (PPG-PR 421)	6.8	6.8	7.0	6.8	6.1	4.8	4.4	4.6	6.3	7.0	6.9	7.0	6.2
DLFPS-236/3540	6.7	6.7	6.6	6.2	6.0	4.9	4.8	5.1	6.8	7.0	6.8	6.9	6.2
IVY (PST-2GTD)	6.9	6.8	6.7	6.0	5.9	4.9	4.9	5.0	6.6	6.8	7.0	6.9	6.2
GATOR FORE (DLFPS-236/3544)	6.7	6.8	6.6	6.2	6.0	4.9	4.6	5.1	6.3	7.1	7.0	6.9	6.2
CATALYST (023)	6.0	6.7	6.6	6.2	6.3	5.3	5.1	5.2	6.4	6.7	6.6	6.9	6.2
GRAY WOLF (PST-2GAL)	6.7	6.9	6.3	6.0	5.9	4.8	4.6	5.0	6.6	7.1	7.1	6.8	6.1
PST-2FOXY	6.7	6.9	6.3	5.8	5.9	4.7	4.6	4.9	6.7	6.9	7.2	7.1	6.1
BAR LP 6131	6.8	6.6	7.2	6.7	6.0	4.4	4.3	4.8	6.8	6.8	6.7	6.3	6.1
GRAND SLAM GLD	6.8	6.6	6.4	6.6	5.7	4.9	4.9	4.9	6.2	6.6	6.9	7.0	6.1
BELIZE 2 (GO-142)	7.7	7.2	7.0	6.4	6.6	4.7	4.2	4.4	6.1	6.1	6.4	6.3	6.1
MIGHTIER (DLFPS-236/3542)	7.0	6.9	6.6	5.8	6.1	4.8	4.1	5.0	6.6	6.7	6.8	6.9	6.1
ASP0117 (A-PR15)	6.4	7.1	6.4	5.8	6.0	4.7	4.3	4.9	6.6	6.9	7.1	6.7	6.1
MRSL-PR16	6.8	7.0	6.8	5.6	5.8	4.6	4.0	4.7	6.6	6.9	7.1	7.0	6.1
SEABISCUIT	6.9	7.0	6.4	6.1	5.8	4.4	4.4	4.8	6.6	6.8	6.9	6.6	6.1
ASP0218 (A-6D)	7.1	6.9	6.8	6.6	5.8	4.4	4.3	4.7	6.1	6.4	6.4	6.9	6.0
MAN O WAR	6.8	6.9	6.7	6.0	6.0	4.8	4.4	4.9	6.0	6.3	6.8	6.9	6.0
OVERDRIVE 5G	6.9	7.0	6.6	6.2	6.0	4.6	4.3	4.7	6.1	6.6	6.8	6.8	6.0
PPG-PR 422	7.1	7.2	7.0	6.7	5.8	4.4	4.2	4.9	5.9	6.4	6.7	6.1	6.0
BAR LP 6158	7.1	6.9	6.9	6.0	5.8	4.8	4.0	4.7	6.7	6.4	6.4	6.7	6.0
DLFPS-236/3552	6.6	6.8	6.4	5.8	5.8	4.7	4.6	5.0	6.7	6.9	6.6	6.6	6.0
BAR LP 6162	6.6	6.6	6.4	6.1	5.9	4.8	4.6	5.1	6.7	6.8	6.4	6.3	6.0
CS-6	6.7	6.9	6.9	5.9	5.9	4.3	4.0	5.0	6.4	6.4	6.9	6.9	6.0
DLFPS-236/3553	6.6	6.7	6.1	5.7	6.0	4.7	4.7	4.8	6.3	6.9	7.0	6.9	6.0
HOMERUN LS (PPG-PR 419)	7.0	7.3	6.6	5.7	6.0	4.4	4.1	4.7	6.3	6.6	6.8	6.8	6.0
PR-5-16	6.8	7.1	6.8	6.4	6.0	4.4	4.1	4.7	6.1	6.3	6.7	6.8	6.0
STELLAR 4GL (PPG-PR 424)	7.0	7.2	6.6	6.1	5.9	4.6	4.4	4.9	6.0	6.0	6.6	6.8	6.0
PPG-PR 370	6.7	6.9	6.6	6.4	6.2	4.4	4.3	4.6	6.1	6.4	6.7	6.6	6.0
CPN	6.8	7.0	6.7	5.9	5.3	4.6	4.1	4.9	6.6	6.7	6.7	6.8	6.0
JR-123	6.6	6.7	6.7	6.1	6.0	4.9	4.4	4.9	6.1	6.3	6.8	6.2	6.0
PPG-PR 372	6.3	6.4	6.1	6.3	6.0	4.9	4.7	4.8	6.3	6.8	6.4	6.6	6.0
PARAGON 2 GLR (FP2)	6.6	6.7	6.3	6.0	5.9	4.6	4.3	4.8	6.1	6.7	6.9	6.9	6.0
ALLSTAR FORE (DLFPS-236/3541)	6.7	6.6	6.6	6.0	5.3	4.4	4.6	4.9	6.6	6.8	6.7	6.6	6.0
BAR LP 6159	6.9	7.0	6.7	6.3	6.0	4.8	4.6	4.9	5.8	5.7	6.3	6.6	6.0
GO-141	6.6	7.3	6.8	6.1	6.1	5.0	4.4	4.6	6.0	6.3	6.1	6.1	6.0
SIGNET	6.3	6.2	6.4	6.4	6.0	4.8	4.2	4.7	6.0	6.7	6.9	6.8	6.0
PST-2MAY	6.8	6.8	6.7	6.0	5.9	4.4	4.6	4.6	5.9	6.3	6.7	6.8	5.9
NP-2	6.8	6.8	6.7	5.2	5.8	4.8	4.4	4.4	5.8	6.2	7.2	7.2	5.9
PPG-PR 385	6.4	6.7	6.4	5.8	5.9	4.6	4.4	4.6	6.2	6.8	6.7	6.9	5.9
PST-2PDA	6.9	7.0	6.7	6.0	6.1	4.6	4.3	4.7	6.0	6.1	6.1	6.9	5.9

TABLE 18.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT FRESNO, CA (IN THE SOUTHWEST REGION) 1/
2017-2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
INTENSE	7.0	6.9	6.8	6.0	5.7	4.3	4.0	4.8	6.0	6.8	6.8	6.2	5.9
APR2616	6.8	6.9	6.8	5.9	6.1	4.8	4.2	4.7	5.7	6.1	6.8	6.6	5.9
DLFPS-236/3556	6.8	6.4	6.8	6.1	5.9	4.6	4.2	4.4	5.9	6.2	7.0	6.8	5.9
SWIFT (PST-2A2)	7.0	7.2	7.0	6.0	5.4	4.6	4.2	4.6	5.9	6.2	6.6	6.4	5.9
SHIELD (02BS4)	6.3	6.7	6.3	6.0	5.9	4.8	4.3	4.8	6.3	6.4	6.6	6.6	5.9
NP-3	6.3	6.7	6.6	6.1	6.1	4.6	4.3	4.9	6.1	6.4	6.2	6.6	5.9
021	6.6	6.4	6.4	5.8	5.7	4.8	4.8	4.8	6.1	6.2	6.7	6.6	5.9
APR3060	6.3	6.2	6.3	5.9	5.3	4.4	4.3	4.8	6.7	6.9	6.9	6.6	5.9
PST-2EGAD	6.9	6.8	6.3	5.9	6.0	4.6	4.2	4.6	6.0	6.2	6.6	6.7	5.9
SUPERSTAR GL (PPG-PR 420)	6.6	7.0	6.8	5.6	5.6	4.7	4.4	4.6	6.0	6.2	6.4	6.9	5.9
02BS1	6.8	7.2	6.3	6.2	5.9	4.4	4.4	4.4	5.9	6.3	6.3	6.3	5.9
APR2612	6.2	6.6	6.3	5.4	5.3	4.8	4.1	4.6	6.2	6.4	7.1	7.1	5.9
FURLONG (LTP-FCB)	6.6	6.8	6.2	5.7	6.0	4.6	4.3	4.4	6.0	6.3	6.8	6.6	5.9
PL2	6.4	6.7	6.4	6.2	5.8	4.3	4.1	4.6	5.9	6.2	6.8	6.7	5.8
SLIDER LS (PPG-PR 241)	6.6	6.4	6.2	6.0	6.0	4.9	4.6	4.6	5.8	6.1	6.7	6.3	5.8
FIESTA CINCO (DLFPS-236/3554)	6.3	6.7	6.8	5.8	5.7	4.7	4.2	4.4	6.2	6.6	6.4	6.2	5.8
DLFPS-236/3546	6.6	6.7	6.0	4.9	5.4	4.1	4.1	4.8	6.2	6.4	7.3	7.3	5.8
CAYMAN (GO-143)	7.1	6.8	6.0	5.7	5.9	4.4	4.0	4.4	6.2	6.4	6.2	6.6	5.8
ELEKTRA GLR (PPG-PR 371)	6.6	6.8	6.4	5.9	5.4	4.4	4.3	4.6	6.1	6.3	6.7	6.2	5.8
MRSL-PR15	6.0	6.7	6.4	5.7	5.8	4.4	4.6	4.9	6.2	6.2	6.2	6.6	5.8
SPIKE GLS (UF3)	6.3	6.4	6.3	5.9	5.9	4.6	4.4	4.7	5.8	6.1	6.6	6.7	5.8
BAR LP 6165	6.6	6.0	6.3	5.9	6.1	4.4	4.2	4.4	6.1	6.6	6.9	6.1	5.8
ASP0118GL (A-4G)	6.6	6.3	6.2	5.4	5.4	4.4	4.3	4.8	6.4	6.7	6.3	6.6	5.8
GATOR CINCO (DLFPS-236/3548)	6.3	6.7	6.1	6.0	6.0	4.6	4.4	4.6	5.9	6.0	6.6	6.4	5.8
REVENGE 2GLX (JR-197)	6.7	7.0	6.3	6.1	5.9	4.2	4.1	4.1	5.6	6.0	6.7	6.7	5.8
ALLSTAR III	6.7	6.8	6.6	6.3	5.9	4.3	3.8	4.1	5.8	6.2	6.4	6.3	5.8
PR-6-15	6.8	6.8	6.2	5.9	5.8	4.1	3.8	4.4	5.9	6.0	6.7	6.8	5.8
HATRICK (BSP-17)	6.4	7.2	6.0	5.7	5.6	4.6	4.1	4.8	6.1	6.1	6.4	6.1	5.8
SR 4650	6.7	6.7	6.3	5.4	5.8	4.4	4.0	4.4	5.9	6.3	6.6	6.6	5.8
BAR LP 6233	6.2	6.6	6.4	5.9	5.9	4.4	4.2	4.7	5.9	6.2	6.6	6.0	5.8
SUNBURST (02BS2)	6.2	6.6	6.6	5.9	5.6	4.4	4.4	4.2	5.7	6.0	6.7	6.8	5.8
TEE-ME-UP (BSP-25)	6.6	6.6	6.0	5.7	5.8	4.3	4.1	4.4	6.0	6.3	6.4	6.6	5.7
APPLE 3GL (PPG-PR 339)	6.3	6.6	6.4	6.3	5.6	4.2	4.2	4.7	5.9	6.0	6.2	6.2	5.7
PHARAOH	6.2	6.6	6.2	6.0	5.8	4.6	4.3	4.6	5.9	6.0	6.2	6.3	5.7
UMPQUA	6.4	6.9	6.7	6.1	5.7	4.6	4.1	4.3	5.6	6.0	6.2	6.0	5.7
PARADOX GLR (PPG-PR 331)	6.9	6.8	6.4	5.4	5.1	4.1	3.9	4.4	6.2	6.4	6.3	6.3	5.7
SR 4700 (DLFPS-236/3543)	6.4	6.3	6.2	6.0	5.6	4.6	4.3	4.0	6.1	6.3	6.2	6.3	5.7
MENSA	6.1	6.2	6.2	5.1	5.4	4.6	4.4	4.7	6.1	6.4	6.4	6.2	5.7
ZOOM 2 (DLFPS-236/3545)	5.9	6.2	5.9	5.9	6.2	4.6	4.0	4.1	5.8	6.3	6.7	6.4	5.7
XCELERATOR	6.6	6.8	6.1	5.3	5.8	4.6	4.3	4.7	5.9	6.1	5.9	5.9	5.7
HELIOS (DLFPS-236/3538)	6.6	6.2	6.1	6.2	6.2	4.8	4.2	4.1	5.3	5.8	5.9	6.3	5.6
MYSTIQUE (DLFPS-236/3547)	6.2	6.4	6.1	5.0	5.6	4.2	3.9	4.4	6.1	6.7	6.8	6.3	5.6
SILVER SPORT (PST-2CRP)	6.0	6.7	6.4	5.3	6.2	4.7	4.3	4.6	5.3	5.8	6.3	6.0	5.6
NEXUS GT (SNX)	6.6	7.2	6.3	5.9	5.7	4.2	3.9	4.2	5.3	5.9	6.2	6.1	5.6
SAVANT	6.0	6.1	5.9	5.8	5.6	4.6	4.2	4.7	5.8	6.0	6.4	6.6	5.6
SLUGGER 3GL (PPG-PR 343)	6.8	6.4	6.3	5.1	5.1	4.1	3.7	4.4	6.0	6.2	6.8	6.4	5.6

TABLE 18. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT FRESNO, CA (IN THE SOUTHWEST REGION) 1/
2017-2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PEPPER II (RAD-PR 103)	6.0	6.0	6.1	4.9	5.7	4.4	4.2	4.2	6.1	6.3	6.7	6.7	5.6
STARBRIGHT GLX (PST-2BDT)	6.2	6.8	6.4	5.7	5.0	4.0	3.6	4.3	5.7	6.2	6.8	6.6	5.6
KARMA	6.6	6.3	6.6	6.0	6.0	4.1	4.0	3.9	5.4	5.8	6.0	6.6	5.6
GREEN SUPREME+ (AMP-R1)	6.2	6.7	6.3	5.8	5.2	3.9	3.7	4.4	5.9	6.3	6.2	6.3	5.6
LPB-SD-101	6.3	6.1	6.0	5.9	5.6	4.6	4.3	4.7	5.8	5.8	5.9	6.0	5.6
EVOLVE	6.2	6.1	6.2	5.7	6.0	4.0	3.7	4.3	6.0	6.1	6.2	6.1	5.6
SAGUARO	5.8	6.0	6.0	5.2	5.9	4.7	4.2	4.7	5.7	6.1	6.0	6.1	5.5
JR-888	6.6	6.4	6.7	5.4	5.3	4.1	3.8	4.1	5.8	5.9	6.1	5.9	5.5
FIREBALL (BWH)	6.0	6.8	6.0	5.7	5.9	4.1	3.9	4.1	5.6	5.9	5.9	6.1	5.5
RAD-PR 112	7.0	7.4	6.4	5.9	5.6	4.0	3.7	3.8	5.2	5.3	5.7	5.8	5.5
DERBY XTREME	6.4	6.7	6.0	5.9	5.9	4.1	3.9	4.1	5.3	5.8	6.0	5.6	5.5
PORTFOLIO (PPG-PR 423)	6.3	6.1	5.9	5.7	5.4	4.1	3.8	4.3	5.2	5.9	6.4	6.3	5.5
LPB-SD-102	6.2	6.3	6.1	5.3	5.2	4.1	4.1	4.2	5.6	5.7	6.0	6.1	5.4
LPB-SD-105	6.2	6.1	5.4	5.1	5.3	4.8	4.1	4.4	5.4	5.8	5.9	5.9	5.4
JR-747	6.4	6.7	5.8	5.3	5.2	4.1	4.0	4.6	5.4	5.7	5.4	5.6	5.4
LPB-SD-103	5.9	5.7	5.7	5.0	5.2	3.9	4.0	4.3	5.8	5.8	6.2	6.3	5.3
ALLOY (RRT)	6.4	6.4	5.4	4.9	5.2	4.2	3.9	4.2	5.4	5.8	5.9	5.8	5.3
DLFPS-238/3014	5.6	6.1	5.9	5.4	5.3	4.0	4.0	4.1	4.9	5.7	5.8	5.6	5.2
LPB-SD-104	5.6	5.6	5.1	5.4	5.0	4.1	4.1	4.2	5.1	5.6	5.8	6.0	5.1
BRIGHTSTAR SLT	6.0	6.1	5.9	5.3	5.3	3.9	3.4	3.9	5.0	5.3	5.4	5.8	5.1
FASTBALL 3GL (PPG-PR 329)	6.7	6.1	5.6	4.8	4.3	3.3	3.2	3.9	5.3	6.0	6.3	5.8	5.1
PPG-PR 360	5.7	6.0	5.0	5.0	5.0	4.0	3.8	4.0	5.6	5.6	5.4	5.8	5.1
LINN	6.0	5.9	5.7	5.4	5.1	3.7	3.3	4.0	4.9	5.6	5.6	4.7	5.0
LSD VALUE	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	1.3	1.3	1.1	1.1	0.8
C.V. (%)	18.2	17.7	19.0	20.6	19.3	22.3	25.6	22.6	23.7	21.5	18.4	17.7	14.4

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 19. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/ 2017-2021 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-PR 367	6.5	6.9	7.1	6.7	7.1	7.3	7.7	7.5	7.7	7.4	6.7	6.4	7.1
REVENGE 2GLX (JR-197)	6.4	7.2	7.2	6.8	7.0	7.1	7.8	7.7	7.4	7.1	6.5	6.4	7.1
FURLONG (LTP-FCB)	6.1	6.6	6.8	7.1	7.0	7.1	7.5	7.5	7.5	7.3	6.7	6.3	7.0
PPG-PR 372	6.1	6.5	6.8	7.1	7.0	7.0	7.6	7.6	7.7	7.3	6.4	6.1	7.0
ALLSTAR FORE (DLFPS-236/3541)	6.3	6.3	6.8	7.3	7.1	6.9	7.3	7.4	7.5	7.5	6.6	6.3	7.0
STELLAR 4GL (PPG-PR 424)	6.2	6.7	6.8	7.0	6.9	6.9	7.6	7.6	7.7	7.2	6.4	6.2	7.0
PPG-PR 422	6.2	6.6	6.9	6.9	7.0	7.1	7.7	7.6	7.5	7.1	6.4	6.1	7.0
PST-2FOXY	6.3	6.5	6.7	6.9	7.0	7.0	7.3	7.7	7.7	7.3	6.7	6.3	7.0
MYSTIQUE (DLFPS-236/3547)	6.3	6.7	6.7	6.8	7.1	7.0	7.3	7.5	7.5	7.3	6.7	6.3	7.0
APPLE 3GL (PPG-PR 339)	6.1	6.7	6.8	6.9	7.0	7.1	7.5	7.7	7.5	7.3	6.5	6.1	7.0
ZOOM 2 (DLFPS-236/3545)	6.3	6.8	6.6	6.9	6.9	6.9	7.5	7.5	7.5	7.3	6.5	6.1	6.9
PHARAOH	6.3	6.6	6.7	6.8	6.9	6.8	7.4	7.5	7.5	7.3	6.7	6.3	6.9
ALLOY (RRT)	6.1	6.5	6.8	6.9	7.1	7.0	7.3	7.5	7.5	7.1	6.6	6.2	6.9
DLFPS-236/3556	6.2	6.5	6.8	6.9	6.9	7.0	7.4	7.6	7.5	7.3	6.4	6.1	6.9
OVERDRIVE 5G	6.0	6.7	6.7	6.7	6.9	6.9	7.5	7.6	7.6	7.2	6.4	6.2	6.9
SPIKE GLS (UF3)	6.3	6.8	6.8	6.8	6.8	7.0	7.3	7.5	7.3	7.3	6.5	6.3	6.9
SWIFT (PST-2A2)	6.2	6.8	6.9	6.9	6.9	7.1	7.3	7.4	7.3	6.9	6.4	6.1	6.9
PARAGON 2 GLR (FP2)	6.1	6.3	6.8	6.8	7.1	7.1	7.3	7.4	7.5	7.1	6.5	6.2	6.9
MAN O WAR	5.9	6.6	7.1	7.1	6.9	6.9	7.2	7.4	7.5	7.2	6.3	6.1	6.9
SLUGGER 3GL (PPG-PR 343)	5.9	6.6	7.1	6.9	6.9	7.0	7.5	7.3	7.3	7.0	6.3	6.1	6.9
GATOR FORE (DLFPS-236/3544)	5.8	6.5	6.6	6.9	7.1	7.2	7.2	7.5	7.5	6.9	6.3	6.1	6.9
PR-6-15	6.0	6.7	7.0	6.9	6.9	7.0	7.2	7.5	7.3	7.0	6.3	6.0	6.9
SR 4700 (DLFPS-236/3543)	5.8	6.3	6.8	7.1	7.0	7.0	7.3	7.4	7.2	7.2	6.5	6.0	6.9
02BS1	6.2	6.5	6.5	6.4	6.7	6.9	7.5	7.6	7.6	7.2	6.5	6.1	6.8
NP-2	6.1	6.5	6.7	6.7	7.1	7.1	7.3	7.4	7.4	7.0	6.3	6.0	6.8
DLFPS-236/3552	6.1	6.4	6.7	6.9	7.0	7.1	7.3	7.3	7.3	7.0	6.4	6.1	6.8
MIGHTIER (DLFPS-236/3542)	6.1	6.3	6.6	7.1	6.8	6.9	7.3	7.6	7.5	7.1	6.3	5.9	6.8
CPN	6.1	6.6	6.8	6.9	6.9	7.0	7.4	7.3	7.2	7.0	6.3	6.1	6.8
DERBY XTREME	5.8	6.3	6.8	6.9	6.7	6.9	7.3	7.5	7.4	7.1	6.6	6.1	6.8
HOMERUN LS (PPG-PR 419)	6.3	6.5	6.7	6.7	7.1	7.2	7.3	7.3	7.0	6.9	6.3	6.3	6.8
SUNBURST (02BS2)	6.0	6.3	6.7	6.8	6.9	6.9	7.3	7.2	7.5	7.3	6.4	6.2	6.8
DLFPS-236/3546	6.0	6.3	6.5	6.9	6.9	7.0	7.4	7.5	7.5	7.2	6.4	6.0	6.8
SUPERSTAR GL (PPG-PR 420)	5.8	6.2	6.4	6.8	6.9	7.1	7.5	7.6	7.4	6.9	6.3	6.1	6.8
UMPQUA	5.9	6.6	7.0	6.9	6.9	7.0	7.3	7.5	7.3	6.9	6.1	6.0	6.8
NP-3	5.8	6.5	6.7	6.7	6.9	7.1	7.4	7.5	7.3	6.9	6.3	6.0	6.8
PALMER SUPREME (PPG-PR 421)	5.9	6.3	6.7	6.7	6.9	7.0	7.4	7.4	7.3	6.7	6.4	5.9	6.8
LPB-SD-102	5.8	6.4	6.8	6.9	6.9	6.9	7.3	7.5	7.3	6.7	6.0	5.9	6.8
RAD-PR 112	5.9	6.5	6.9	7.0	6.9	6.8	7.1	7.3	7.3	6.9	6.1	5.8	6.8
DLFPS-236/3553	5.8	6.4	6.9	7.0	6.9	6.7	7.0	7.3	7.3	7.1	6.3	5.7	6.8
PARADOX GLR (PPG-PR 331)	5.8	6.2	6.6	6.7	6.9	7.1	7.4	7.3	7.3	7.0	6.4	5.9	6.7
ELEKTRA GLR (PPG-PR 371)	5.6	6.1	6.5	6.8	7.0	6.9	7.4	7.5	7.4	7.0	6.1	5.8	6.7
021	6.0	6.4	6.6	6.8	6.9	7.1	7.3	7.3	7.1	6.6	5.9	6.0	6.7
XCELERATOR	5.8	6.4	6.6	6.7	6.8	6.9	7.2	7.4	7.3	6.9	6.2	5.8	6.7
FASTBALL 3GL (PPG-PR 329)	5.8	6.1	6.4	6.5	6.7	6.7	7.5	7.5	7.5	6.9	6.4	5.9	6.7
PPG-PR 360	5.6	6.1	6.6	6.8	7.0	7.0	7.1	7.3	7.3	7.1	6.2	5.5	6.7
INTENSE	5.5	6.0	6.4	6.6	6.9	7.0	7.4	7.4	7.3	6.8	6.4	5.8	6.7

TABLE 19. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
(CONT'D) MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
2017-2021 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
CATALYST (023)	5.5	6.3	6.8	6.8	6.9	6.9	7.1	7.2	7.3	6.9	6.2	5.7	6.7
JR-123	5.8	5.9	6.4	6.9	6.9	6.9	7.3	7.3	7.2	6.9	6.2	5.7	6.7
GATOR CINCO (DLFPS-236/3548)	5.3	5.8	6.5	6.9	7.1	6.9	7.3	7.4	7.3	6.7	6.2	5.7	6.7
ASP0118GL (A-4G)	5.8	6.3	6.5	6.8	6.9	6.9	7.3	7.4	7.2	6.8	5.9	5.8	6.7
PORTFOLIO (PPG-PR 423)	5.6	6.2	6.7	6.8	6.8	6.9	7.2	7.4	7.4	6.8	6.0	5.7	6.7
PST-2MAY	5.5	6.1	6.4	6.7	6.9	6.9	7.1	7.3	7.3	7.1	6.1	5.8	6.7
SEABISCUIT	5.8	6.3	6.6	6.3	6.7	6.8	7.1	7.1	7.3	7.0	6.3	6.0	6.7
SLIDER LS (PPG-PR 241)	5.6	6.0	6.6	6.8	6.9	6.9	7.5	7.4	7.2	6.6	6.0	5.7	6.7
DLFPS-236/3550	5.5	6.2	6.7	6.9	6.9	7.0	7.1	7.1	7.1	6.7	6.1	5.7	6.6
GRAND SLAM GLD	5.7	5.8	6.4	6.7	6.7	6.8	7.0	7.3	7.3	6.9	6.5	5.8	6.6
SILVER SPORT (PST-2CRP)	6.0	6.4	6.6	6.5	6.6	6.9	7.1	7.1	7.1	6.9	6.1	6.1	6.6
IVY (PST-2GTD)	5.8	6.3	6.5	6.6	6.9	6.9	7.0	7.1	7.1	6.7	6.1	5.8	6.6
PL2	5.7	6.2	6.3	6.7	6.7	6.8	7.3	7.1	7.1	6.8	6.1	5.7	6.6
PPG-PR 370	5.6	6.3	6.8	6.9	6.8	6.8	7.0	7.1	7.1	6.7	5.9	5.5	6.6
SHIELD (02BS4)	5.7	6.3	6.5	6.4	6.8	6.8	7.1	7.1	7.1	6.7	6.1	5.8	6.6
FIREBALL (BWH)	5.6	6.1	6.7	6.8	6.7	6.7	7.3	7.5	7.1	6.6	5.9	5.6	6.6
DLFPS-236/3540	5.6	6.1	6.3	6.7	7.1	6.9	7.1	7.3	7.1	6.5	5.8	5.8	6.6
GRAY WOLF (PST-2GAL)	5.4	6.0	6.3	6.9	6.9	6.9	7.1	7.1	7.1	6.8	6.0	5.5	6.6
GRAY HAWK (PST-2FIND)	5.3	5.8	6.3	6.6	6.8	6.9	7.1	7.4	7.3	6.6	6.1	5.5	6.6
ASP0218 (A-6D)	5.4	6.3	6.8	6.9	6.6	6.8	7.1	7.1	7.0	6.6	5.9	5.7	6.6
KARMA	5.5	6.1	6.7	6.8	6.8	6.9	7.1	7.1	7.0	6.6	5.9	5.6	6.5
SR 4650	5.6	6.2	6.5	6.6	6.6	6.8	7.1	7.2	7.0	6.7	6.1	5.6	6.5
FIESTA CINCO (DLFPS-236/3554)	5.3	5.8	6.4	6.8	6.9	6.9	7.1	7.3	7.1	6.6	5.9	5.5	6.5
PEPPER II (RAD-PR 103)	5.6	6.4	6.5	6.7	6.8	6.7	6.9	7.1	7.0	6.4	6.1	5.7	6.5
STARBRIGHT GLX (PST-2BDT)	5.4	6.2	6.4	6.7	6.8	6.7	7.1	7.3	7.1	6.5	5.8	5.6	6.5
ASP0117 (A-PR15)	5.4	6.0	6.5	6.8	6.7	6.8	7.3	7.3	6.8	6.4	5.9	5.8	6.5
PR-5-16	5.3	6.0	6.6	6.8	6.8	6.7	7.1	7.1	6.9	6.5	5.9	5.6	6.5
TEE-ME-UP (BSP-25)	5.8	6.5	6.7	6.7	6.7	6.7	7.1	6.9	6.7	6.2	5.7	5.9	6.5
LPB-SD-101	5.6	6.2	6.4	6.5	6.7	6.9	7.1	7.1	6.9	6.6	5.7	5.5	6.5
APR2616	5.6	6.1	6.6	6.5	6.7	6.8	7.0	7.0	6.9	6.6	5.7	5.6	6.5
CS-6	5.4	6.3	6.6	6.6	6.6	6.6	7.0	7.0	6.9	6.5	5.9	5.8	6.5
PST-2EGAD	5.3	5.9	6.4	6.1	6.7	6.8	7.2	7.1	7.1	6.5	6.1	5.9	6.5
ASP0116EXT	5.7	6.3	6.8	6.7	6.6	6.7	6.9	7.1	6.8	6.2	5.6	5.8	6.5
HATRICK (BSP-17)	5.4	6.2	6.5	6.5	6.8	6.8	7.3	7.3	6.9	6.2	5.5	5.5	6.4
LPB-SD-103	5.5	5.9	6.3	6.6	6.8	6.8	7.1	7.2	6.9	6.5	5.7	5.5	6.4
JR-747	5.3	5.7	6.3	6.9	7.0	6.8	6.9	7.1	6.9	6.3	5.6	5.3	6.4
LPB-SD-104	5.0	5.8	6.3	7.1	7.1	6.8	7.1	7.2	6.9	6.3	5.5	5.1	6.4
MENSA	5.5	5.9	6.4	6.8	6.7	6.8	7.0	7.0	6.7	6.3	5.5	5.5	6.4
NEXUS GT (SNX)	5.4	6.0	6.4	6.4	6.5	6.7	7.0	7.2	6.9	6.3	5.7	5.6	6.4
HELIOS (DLFPS-236/3538)	5.3	5.8	6.4	6.8	6.8	6.7	6.9	7.0	6.7	6.3	5.8	5.4	6.4
SIGNET	5.3	5.8	6.3	6.7	6.7	6.7	7.0	7.1	6.9	6.5	5.7	5.4	6.4
PPG-PR 385	5.3	5.8	6.3	6.5	6.6	6.7	7.0	7.1	6.9	6.5	5.9	5.5	6.4
LPB-SD-105	4.9	5.6	6.3	6.8	6.7	6.8	7.1	7.2	7.2	6.4	5.5	5.1	6.4
BELIZE 2 (GO-142)	5.4	6.2	6.6	6.6	6.7	6.5	6.8	7.0	6.7	6.3	5.5	5.6	6.4
CAYMAN (GO-143)	5.5	5.8	6.3	6.5	6.6	6.6	6.9	6.9	6.8	6.3	5.8	5.6	6.4
APR2612	5.4	5.9	6.2	6.3	6.5	6.6	7.1	7.1	6.9	6.3	5.6	5.6	6.3

TABLE 19. (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/ 2017-2021 DATA

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/												
SAVANT	4.8	5.6	6.3	6.8	6.7	6.5	7.0	7.1	7.1	6.4	5.7	5.2	6.3
ALLSTAR III	5.6	6.0	6.2	6.4	6.5	6.5	6.9	6.9	6.7	6.3	5.8	5.5	6.3
MRSL-PR16	5.5	6.0	6.2	6.5	6.5	6.6	7.0	6.9	6.9	6.3	5.3	5.6	6.3
GREEN SUPREME+ (AMP-R1)	5.3	5.8	6.3	6.5	6.6	6.7	7.1	7.0	6.9	6.3	5.5	5.2	6.3
MRSL-PR15	5.3	6.1	6.4	6.3	6.6	6.7	6.9	6.9	6.7	6.1	5.5	5.4	6.3
BAR LP 6117	5.2	5.6	6.3	6.6	6.7	6.7	7.0	6.9	6.6	6.1	5.5	5.4	6.3
SAGUARO	5.1	5.8	6.2	6.5	6.7	6.6	6.9	6.9	6.8	6.3	5.5	5.3	6.3
BAR LP 6164	5.1	5.8	6.3	6.3	6.7	6.7	6.9	6.9	6.7	6.2	5.5	5.5	6.3
PST-2PDA	5.3	5.8	6.1	6.0	6.5	6.7	7.1	7.1	6.7	6.2	5.5	5.1	6.2
JR-888	5.1	5.8	6.1	6.5	6.5	6.5	6.9	7.1	6.6	6.3	5.5	5.2	6.2
GO-141	4.9	5.7	6.3	6.6	6.6	6.5	6.9	6.8	6.7	6.1	5.4	5.3	6.2
DLFPS-238/3014	5.3	6.1	6.4	6.1	6.6	6.4	6.7	6.7	6.5	6.1	5.4	5.3	6.2
EVOLVE	5.2	5.8	6.1	6.1	6.3	6.5	6.9	6.8	6.5	6.1	5.4	5.3	6.1
BAR LP 6165	4.8	6.0	6.5	6.3	6.2	6.3	6.7	6.7	6.4	6.1	5.4	5.3	6.1
BAR LP 6159	4.8	5.7	6.3	6.3	6.5	6.4	6.7	6.7	6.5	6.1	5.4	5.2	6.1
APR3060	4.9	5.4	5.9	6.1	6.5	6.6	6.9	6.6	6.5	6.1	5.3	5.2	6.1
BAR LP 6233	4.7	5.5	5.9	5.9	6.5	6.5	6.9	6.9	6.6	6.1	5.4	5.1	6.1
BAR LP 6131	4.8	5.7	6.1	6.1	6.5	6.3	6.7	6.8	6.4	6.1	5.2	5.1	6.0
BAR LP 6158	4.8	5.5	6.1	6.2	6.4	6.4	6.9	6.7	6.5	6.1	5.3	4.9	6.0
BRIGHTSTAR SLT	5.2	5.9	6.2	6.1	6.3	6.2	6.5	6.5	6.3	5.9	5.5	5.1	6.0
BAR LP 6162	4.8	5.8	6.3	6.1	6.2	6.2	6.5	6.3	6.1	6.1	5.5	5.2	6.0
LINN	4.6	5.2	5.3	5.0	5.6	5.9	5.9	5.9	5.7	5.5	5.1	4.9	5.4
LSD VALUE	0.6	0.6	0.5	0.4	0.5	0.5	0.3	0.4	0.4	0.4	0.5	0.5	0.3
C.V. (%)	13.9	11.2	10.3	9.1	10.6	10.1	6.7	8.6	7.8	8.1	11.9	11.7	5.9

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

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

TABLE 20. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2017-2021 DATA

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

NAME	SPRING GREENUP	MOW QUALITY	ESTABLISH-MENT	SEEDHEAD	WEAR TOLERANCE RATINGS 2017 ONLY	2018,2020,2021	COMBINED	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
SUNBURST (02BS2)	4.7	7.0	50.0	6.3	5.7	5.4	5.4	5.8	6.0	6.2	6.4	6.3	6.6	6.5	6.6	6.4	6.0	6.4
PARADOX GLR (PPG-PR 331)	5.0	5.7	63.3	7.0	5.3	5.7	5.8	6.0	6.0	6.0	6.1	6.5	6.3	6.6	6.1	6.2	6.2	6.3
STELLAR 4GL (PPG-PR 424)	5.3	6.7	53.3	6.3	4.3	5.2	5.1	5.7	5.8	6.4	6.1	6.4	6.3	6.6	6.3	6.2	5.7	6.3
APPLE 3GL (PPG-PR 339)	3.7	6.0	56.7	6.3	6.0	5.9	5.8	5.8	5.8	6.1	6.2	6.2	6.4	6.5	6.6	6.0	5.7	6.2
FURLONG (LTP-FCB)	3.7	5.0	46.7	7.0	5.0	6.0	6.0	6.1	6.3	6.3	6.7	6.3	6.3	6.4	6.4	6.1	5.7	6.2
NP-3	5.3	5.7	46.7	6.7	5.7	5.8	5.8	6.0	6.0	6.3	6.0	6.2	6.0	6.3	6.3	6.2	6.2	6.2
PALMER SUPREME (PPG-PR 421)	5.3	5.7	60.0	6.7	5.0	5.8	5.6	6.2	6.0	6.6	6.2	6.1	6.3	6.3	6.2	5.9	5.8	6.2
SR 4700 (DLFPS-236/3543)	3.7	5.7	56.7	6.3	5.7	5.6	5.6	5.6	5.5	6.4	6.4	6.2	6.3	6.6	6.3	6.2	5.7	6.2
FASTBALL 3GL (PPG-PR 329)	4.7	7.3	43.3	6.0	6.0	6.1	5.8	6.1	6.2	5.9	6.1	5.9	6.2	6.4	6.3	6.0	5.7	6.1
GATOR FORE (DLFPS-236/3544)	5.0	6.3	56.7	6.3	5.0	6.1	5.8	6.0	6.0	6.0	6.0	6.3	6.2	6.0	5.9	5.8	5.5	6.1
IVY (PST-2GTD)	3.3	5.7	50.0	5.7	5.0	5.7	5.6	5.9	5.3	6.0	6.2	6.2	6.5	6.5	6.1	6.0	5.7	6.1
REVENGE 2GLX (JR-197)	4.3	4.7	46.7	6.3	6.0	6.4	5.8	6.2	6.3	6.0	6.2	6.0	5.8	6.1	6.3	6.1	5.3	6.1
PR-6-15	4.7	7.0	46.7	5.0	5.3	5.7	5.4	5.8	5.7	6.1	6.1	5.8	6.2	6.4	6.2	6.1	5.8	6.1
SLUGGER 3GL (PPG-PR 343)	3.7	5.0	53.3	6.0	5.0	5.3	5.1	5.6	5.7	6.4	6.0	6.1	6.2	6.3	6.2	5.9	5.7	6.1
SWIFT (PST-2A2)	4.0	6.7	56.7	5.3	6.0	4.9	5.3	5.4	5.3	6.1	5.9	6.1	6.1	6.3	6.3	6.1	5.7	6.1
CPN	4.3	5.0	56.7	6.0	5.7	5.1	5.1	5.7	5.8	6.0	5.8	6.2	5.9	6.2	6.3	6.0	5.5	6.0
DLFPS-236/3552	3.3	6.0	43.3	6.0	7.0	6.3	6.3	6.0	5.8	6.1	6.0	6.0	5.8	6.3	6.2	5.7	5.2	6.0
JR-123	3.7	7.3	53.3	5.3	6.0	6.0	5.9	6.2	6.2	5.9	5.8	5.6	6.3	6.3	6.3	5.8	5.7	6.0
MYSTIQUE (DLFPS-236/3547)	4.3	5.0	53.3	5.0	5.3	5.0	5.1	5.1	6.0	5.8	5.6	5.8	6.3	6.5	6.3	5.4	5.3	6.0
PHARAOH	5.7	7.0	53.3	6.0	5.7	5.4	5.4	5.9	5.7	5.8	6.0	5.9	5.8	5.9	5.9	6.0	5.7	6.0
PPG-PR 367	4.3	7.7	36.7	6.0	5.3	6.4	5.9	6.2	6.0	5.8	6.1	6.1	6.1	6.3	5.9	6.0	5.7	6.0
PPG-PR 370	3.0	6.3	40.0	5.7	5.3	5.6	5.6	5.7	6.2	6.4	5.8	6.1	5.9	6.1	6.1	5.9	5.5	6.0
PPG-PR 372	3.7	5.7	53.3	5.7	6.0	5.2	5.1	5.4	6.0	6.2	6.0	5.9	6.1	6.3	6.3	5.9	5.5	6.0
ALLSTAR FORE (DLFPS-236/3541)	4.3	6.7	40.0	6.0	5.3	6.0	6.6	6.1	5.7	6.0	5.4	5.6	5.9	6.3	6.0	5.9	5.7	5.9
CATALYST (023)	4.7	7.7	58.3	4.3	5.3	5.0	5.1	5.6	5.8	6.0	5.4	5.8	6.2	5.9	6.1	5.6	5.2	5.9
DLFPS-236/3546	4.3	6.0	50.0	6.0	6.0	5.3	5.3	5.6	5.5	6.0	5.4	5.9	5.8	6.2	5.9	5.9	5.7	5.9
DLFPS-236/3550	3.7	6.7	56.7	5.0	5.7	5.7	6.3	5.9	5.7	6.3	5.4	5.9	6.2	6.4	5.9	5.6	5.5	5.9
DLFPS-236/3553	3.7	5.7	56.7	5.0	5.0	4.7	5.2	5.3	5.8	6.2	5.4	5.8	5.8	6.1	6.0	6.0	6.0	5.9
FIESTA CINCO (DLFPS-236/3554)	3.7	6.3	45.0	6.3	5.7	6.2	6.7	6.0	5.0	5.8	5.9	5.9	5.9	6.3	6.1	5.7	5.7	5.9
NP-2	4.7	7.7	46.7	6.7	5.0	5.4	5.6	5.9	5.7	5.6	6.2	6.1	6.1	5.8	5.8	5.8	5.5	5.9
PARAGON 2 GLR (FP2)	4.7	8.0	40.0	5.7	6.3	5.9	5.6	6.0	5.5	5.7	6.2	5.7	5.9	6.1	5.7	6.0	5.2	5.9
PPG-PR 360	4.0	7.0	53.3	6.3	5.0	5.7	5.4	5.3	5.8	6.4	5.9	5.7	6.1	6.3	5.9	6.0	5.2	5.9
ELEKTRA GLR (PPG-PR 371)	3.7	5.7	50.0	6.0	5.3	5.7	5.3	5.8	6.0	6.3	5.8	5.8	5.9	6.1	5.9	5.7	5.3	5.9
SPIKE GLS (UF3)	3.7	7.3	36.7	5.0	5.0	5.3	5.3	5.8	5.5	6.0	5.9	5.8	5.9	6.0	6.2	6.0	5.3	5.9
XCELERATOR	4.7	6.7	60.0	5.7	5.3	5.7	5.8	6.0	6.3	5.8	5.7	5.9	5.5	6.1	6.0	5.9	5.3	5.9
ZOOM 2 (DLFPS-236/3545)	3.3	7.3	46.7	6.0	6.0	5.2	5.3	5.6	5.8	5.9	6.0	5.6	5.8	6.3	6.1	5.4	5.2	5.9
ALLOY (RRT)	3.7	6.7	43.3	5.3	6.0	5.6	5.7	6.2	5.7	5.7	5.6	5.8	5.8	5.8	6.1	5.7	5.3	5.8
INTENSE	5.0	5.0	43.3	6.0	5.7	5.3	5.1	5.3	5.8	5.4	5.6	5.7	5.7	6.1	5.8	5.6	5.3	5.8
PL2	4.7	7.0	46.7	5.3	5.0	5.6	5.4	5.3	5.7	5.7	5.4	5.6	5.7	6.1	6.0	6.0	5.3	5.8
SEABISCUIT	4.7	4.3	63.3	5.7	4.7	5.3	5.4	5.2	5.7	5.7	5.9	5.7	5.9	5.8	5.8	5.8	5.5	5.8
SLIDER LS (PPG-PR 241)	4.0	5.3	63.3	6.7	5.0	4.9	4.9	5.0	5.5	6.1	6.0	5.9	5.9	5.8	5.8	5.7	5.7	5.8
SUPERSTAR GL (PPG-PR 420)	4.3	5.7	56.7	6.3	5.7	5.4	5.3	5.4	5.5	6.0	5.6	6.1	6.0	6.2	6.0	5.4	5.3	5.8
02BS1	4.0	6.7	43.3	6.0	6.0	5.8	6.2	6.2	5.5	5.8	5.4	5.4	5.8	5.9	5.8	5.8	5.2	5.7
DERBY XTREME	4.3	5.3	50.0	5.0	5.7	5.2	4.8	5.2	5.3	5.7	5.2	5.6	5.8	6.2	5.9	5.3	5.2	5.7
GATOR CINCO (DLFPS-236/3548)	3.3	5.7	53.3	6.0	5.3	5.2	5.4	5.6	5.3	5.8	5.7	5.8	6.0	5.9	5.6	5.7	5.3	5.7
MAN O WAR	3.7	7.0	56.7	4.3	6.0	5.3	5.3	5.8	5.8	5.7	5.3	5.3	5.8	6.2	5.9	5.7	5.5	5.7
PPG-PR 385	4.0	4.3	53.3	5.3	4.7	5.2	5.1	5.2	5.7	5.4	5.1	5.8	5.8	5.8	5.8	5.6	5.2	5.7

TABLE 20. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2017-2021 DATA

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

NAME	SPRING GREENUP	MOW QUALITY	ESTABLISH-MENT	SEEDHEAD	WEAR TOLERANCE RATINGS 2017 ONLY	2018,2020,2021	COMBINED	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-PR 422	4.7	7.3	43.3	6.0	5.3	5.0	5.0	5.2	5.7	5.9	5.7	5.7	5.7	5.7	5.7	5.4	5.0	5.7
PORTFOLIO (PPG-PR 423)	4.0	7.0	43.3	5.7	5.3	5.1	5.2	5.4	5.0	5.9	5.7	5.8	5.7	5.8	5.8	5.4	5.3	5.7
PR-5-16	4.0	4.7	50.0	6.7	5.3	4.7	5.0	5.0	5.8	5.6	5.8	6.0	5.9	5.8	5.8	5.2	5.2	5.7
PST-2FOXY	3.3	6.7	46.7	5.0	5.7	5.6	5.2	5.8	5.2	5.8	5.3	5.4	5.9	6.1	6.0	5.8	5.2	5.7
SILVER SPORT (PST-2CRP)	3.7	7.0	43.3	6.3	5.3	4.2	4.6	4.7	5.7	5.6	5.4	5.6	5.8	6.0	5.8	5.7	5.5	5.7
SR 4650	3.7	6.7	56.7	5.0	6.0	6.0	5.8	5.7	5.5	5.9	5.7	5.8	5.9	5.7	5.7	5.7	5.5	5.7
021	4.7	6.7	60.0	5.0	5.3	5.1	4.9	5.3	5.5	5.6	5.4	5.5	5.8	5.8	5.8	5.4	5.2	5.6
BRIGHTSTAR SLT	3.3	4.3	63.3	6.0	5.0	5.6	5.7	5.8	5.2	5.8	5.4	5.7	5.8	5.8	5.8	5.3	5.7	5.6
EVOLVE	3.7	5.3	66.7	5.3	5.7	5.1	5.3	5.4	5.2	5.8	5.6	5.7	5.8	5.5	5.8	5.6	5.0	5.6
HELIOS (DLFPS-236/3538)	4.0	5.7	43.3	5.3	5.0	5.3	5.1	5.3	5.5	5.6	5.8	5.8	5.7	5.9	5.5	5.2	4.7	5.6
PST-2MAY	3.3	7.0	33.3	5.7	5.3	5.6	5.4	5.8	5.3	5.6	5.3	5.5	5.6	5.8	5.8	5.4	5.3	5.6
PST-2PDA	4.3	6.3	43.3	5.0	5.7	6.3	5.7	6.0	5.2	5.3	5.2	5.6	5.8	6.0	5.8	5.4	5.2	5.6
SIGNET	4.3	6.3	56.7	5.7	5.0	4.6	4.9	5.2	5.5	5.9	5.3	5.7	5.6	5.9	5.8	5.2	5.2	5.6
STARBRIGHT GLX (PST-2BDT)	3.3	6.3	43.3	6.3	5.7	5.2	5.0	5.3	5.5	5.3	5.1	5.4	5.8	5.7	5.6	5.4	5.3	5.6
UMPQUA	3.7	5.0	46.7	4.7	5.3	4.9	4.6	5.2	5.5	6.0	5.8	5.5	5.6	5.8	5.5	5.3	5.0	5.6
APR2616	3.3	7.3	46.7	6.7	5.7	6.0	5.8	5.7	5.0	5.9	5.6	5.4	5.6	5.7	5.3	5.7	5.2	5.5
ASP0117 (A-PR15)	4.0	7.0	50.0	6.0	5.0	5.6	5.3	5.6	5.2	5.3	5.2	5.6	5.6	5.7	5.5	5.3	5.3	5.5
BAR LP 6117	2.7	6.7	46.7	7.3	5.0	5.4	5.3	5.1	5.5	5.6	5.8	5.8	5.5	5.5	5.2	5.6	5.3	5.5
BAR LP 6164	3.3	6.0	40.0	6.7	5.0	5.4	5.7	5.6	5.2	5.4	6.0	5.8	5.5	5.6	5.4	5.6	5.2	5.5
BAR LP 6233	4.0	4.3	46.7	7.0	5.0	5.2	5.2	5.8	5.2	5.8	5.7	5.6	5.6	5.5	5.6	5.2	5.0	5.5
DLFPS-236/3540	3.0	7.3	46.7	5.3	7.3	5.8	5.6	6.0	4.8	5.3	5.4	5.5	5.9	5.7	5.6	5.3	4.8	5.5
DLFPS-236/3556	5.0	7.7	33.3	5.3	5.0	5.3	5.4	5.9	5.7	5.2	5.3	5.3	5.6	5.7	5.4	5.4	5.3	5.5
HOMERUN LS (PPG-PR 419)	3.7	6.0	46.7	6.3	5.3	5.6	5.3	5.9	5.2	5.6	5.3	5.4	5.6	5.7	5.6	5.6	5.2	5.5
KARMA	3.3	6.3	20.0	5.7	5.0	4.9	5.0	5.6	5.2	5.7	5.3	5.5	5.7	5.7	5.6	5.3	5.0	5.5
MIGHTIER (DLFPS-236/3542)	3.0	4.7	43.3	5.7	6.0	5.7	5.9	5.7	5.0	5.7	5.7	5.7	5.4	5.6	5.6	5.3	5.3	5.5
MRSL-PR15	4.0	5.0	53.3	5.0	5.7	5.3	5.3	5.2	5.2	5.4	4.9	5.5	5.8	5.7	5.5	5.3	5.0	5.5
OVERDRIVE 5G	4.0	6.0	46.7	5.0	5.7	5.2	5.2	5.1	5.2	5.3	5.3	5.3	5.4	5.8	5.6	5.7	5.2	5.5
SHIELD (02BS4)	3.3	4.7	43.3	6.0	5.0	4.9	5.4	5.6	5.2	5.4	5.6	5.5	5.5	5.6	5.6	5.7	5.3	5.5
APR3060	4.0	4.7	53.3	6.7	5.0	5.2	5.2	5.6	5.0	5.2	5.4	5.7	5.4	5.3	5.5	5.7	5.5	5.4
ASP0118GL (A-4G)	3.0	5.7	45.0	6.0	7.0	5.8	5.4	5.9	5.3	5.4	5.2	5.3	5.6	5.5	5.5	5.1	5.0	5.4
ASP0218 (A-6D)	4.3	6.7	50.0	5.3	5.7	5.3	5.6	5.9	5.2	5.3	5.1	5.3	5.5	5.3	5.5	5.2	5.0	5.4
BAR LP 6131	3.0	4.3	50.0	6.3	4.7	4.8	5.4	5.3	5.0	5.6	5.4	5.9	5.5	5.5	5.3	5.4	4.7	5.4
BAR LP 6159	3.3	5.3	50.0	6.7	5.7	5.7	5.7	4.8	5.7	5.8	5.6	5.7	5.6	5.2	5.4	5.4	5.2	5.4
BAR LP 6165	3.3	4.7	33.3	6.3	4.7	5.0	5.0	5.2	4.8	5.3	5.6	5.8	5.5	5.7	5.8	5.2	5.2	5.4
GRAND SLAM GLD	4.0	6.3	56.7	4.3	6.3	5.1	5.1	5.4	5.7	5.1	4.6	5.1	5.6	5.9	5.6	5.6	5.2	5.4
GRAY WOLF (PST-2GAL)	3.3	5.7	46.7	6.7	5.3	5.4	5.7	5.8	5.0	5.2	5.3	5.3	5.4	5.6	5.6	5.2	4.7	5.4
NEXUS GT (SNX)	4.0	6.7	46.7	5.0	5.7	5.3	5.4	5.4	5.0	5.0	4.9	5.3	5.7	5.5	5.5	5.2	5.0	5.4
RAD-PR 112	3.3	7.0	36.7	5.0	6.0	5.9	5.7	6.0	5.5	5.3	5.2	5.1	5.4	5.6	5.4	5.1	5.0	5.4
ALLSTAR III	3.3	6.7	40.0	5.0	6.0	4.9	4.9	5.1	4.8	5.3	5.1	5.3	5.4	5.4	5.3	5.7	5.2	5.3
APR2612	3.3	6.7	35.0	6.7	5.0	5.8	5.3	5.6	4.7	5.2	5.3	5.7	5.3	5.5	5.3	5.6	5.0	5.3
BAR LP 6158	3.0	4.7	40.0	6.7	4.7	4.8	4.8	5.1	5.2	5.6	5.4	5.5	5.3	5.3	5.3	5.2	4.7	5.3
BELIZE 2 (GO-142)	3.7	5.0	40.0	4.3	5.3	5.3	5.7	6.1	4.7	5.7	5.0	5.3	5.4	5.3	5.3	5.2	5.0	5.3
GRAY HAWK (PST-2FIND)	3.0	5.3	66.7	6.0	4.7	5.0	4.9	5.3	5.0	5.3	5.1	5.3	5.2	5.5	5.3	5.2	5.2	5.3
GREEN SUPREME+ (AMP-R1)	3.3	6.7	56.7	5.3	6.3	5.6	5.6	5.3	5.2	5.3	5.0	5.3	5.5	5.6	5.3	4.9	4.8	5.3
HATRICK (BSP-17)	3.7	7.0	46.7	5.7	6.3	5.8	5.9	5.7	5.8	5.2	4.9	5.1	5.3	5.5	5.3	5.1	4.7	5.3
PST-2EGAD	3.7	7.3	36.7	6.0	4.3	4.6	5.1	5.0	4.8	5.2	5.6	5.5	5.4	5.3	5.2	5.3	4.8	5.3
BAR LP 6162	2.7	5.3	26.7	5.7	4.0	4.3	4.6	4.8	4.5	5.6	5.3	5.3	5.1	5.3	5.3	5.3	5.7	5.2

TABLE 20. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2017-2021 DATA

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

NAME	SPRING GREENUP	MOW QUALITY	ESTABLISH-MENT	WEAR TOLERANCE RATINGS SEEDHEAD	2017 ONLY	2018,2020,2021	COMBINED	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
CAYMAN (GO-143)	3.3	5.0	36.7	4.3	5.7	5.4	5.8	5.4	5.2	5.2	4.9	5.3	5.3	5.2	5.2	5.0	4.8	5.2
DLFPS-238/3014	4.0	6.0	30.0	6.7	4.3	4.9	4.6	5.0	4.2	5.2	5.4	5.1	5.3	5.1	5.3	5.3	5.5	5.2
FIREBALL (BWH)	4.0	7.3	46.7	5.7	5.0	5.6	5.2	5.9	4.7	5.0	4.9	5.3	5.2	5.2	5.3	5.1	4.8	5.2
LPB-SD-103	3.0	6.3	46.7	7.3	5.3	5.3	5.1	5.1	5.0	5.1	5.2	5.3	5.5	5.5	5.2	4.8	4.7	5.2
MRSL-PR16	3.3	6.7	50.0	4.7	5.3	5.1	5.0	5.3	4.8	5.4	4.8	5.3	5.2	5.4	5.3	5.1	4.8	5.2
SAGUARO	2.7	4.7	46.7	6.3	5.3	4.8	4.6	5.1	5.0	5.2	5.4	5.3	5.1	5.3	5.3	4.8	4.7	5.2
CS-6	4.0	6.3	40.0	5.7	5.0	5.3	5.4	5.2	4.8	4.7	4.8	4.9	5.1	5.1	5.3	4.9	5.0	5.1
GO-141	3.0	4.7	56.7	4.0	4.7	4.6	4.8	5.1	4.5	5.3	4.8	5.1	5.3	5.2	5.1	4.9	5.0	5.1
LPB-SD-102	2.3	5.3	56.7	7.3	5.0	4.7	4.8	5.1	5.3	5.2	5.0	5.1	5.2	5.4	5.2	4.7	4.3	5.1
TEE-ME-UP (BSP-25)	3.3	6.7	50.0	5.3	5.7	5.7	5.6	5.7	4.5	4.8	4.6	5.2	5.4	5.3	5.1	4.8	4.7	5.1
ASP0116EXT	3.7	5.7	53.3	5.3	4.3	4.9	4.6	5.2	4.3	4.8	4.8	5.3	5.0	5.0	4.9	5.0	4.8	5.0
JR-747	3.3	4.3	56.7	7.3	4.0	4.0	4.0	4.3	5.2	4.9	4.8	5.1	5.2	5.3	5.0	4.7	4.5	5.0
LPB-SD-101	2.7	4.3	46.7	7.3	4.0	3.9	3.9	4.2	5.5	4.8	5.2	5.3	5.0	5.0	5.0	4.7	4.5	5.0
LPB-SD-104	2.7	6.3	33.3	7.3	5.3	4.6	4.3	4.7	5.3	5.1	5.0	5.0	5.1	5.2	5.0	4.6	4.2	5.0
MENSA	3.7	4.7	53.3	7.3	4.3	4.7	4.7	4.8	5.2	4.6	4.7	4.9	5.0	5.2	5.0	4.7	4.5	5.0
JR-888	3.0	5.7	53.3	7.0	5.0	4.1	4.3	4.6	5.2	4.7	4.7	4.9	4.9	5.2	4.8	4.6	4.3	4.9
LPB-SD-105	2.7	4.0	30.0	8.0	4.7	4.2	3.9	4.3	5.0	4.9	4.6	4.8	5.2	4.9	4.8	4.4	4.5	4.9
PEPPER II (RAD-PR 103)	4.0	7.0	38.3	6.3	5.0	5.6	5.2	5.2	4.5	4.7	4.7	4.9	4.8	4.8	4.8	4.8	5.0	4.9
SAVANT	3.0	6.7	40.0	7.0	5.0	4.1	4.2	4.2	5.5	5.2	4.8	5.0	5.1	4.9	5.1	4.4	4.2	4.9
LINN	2.7	3.7	13.3	5.7	3.3	3.1	3.2	3.3	2.7	2.7	3.6	3.5	3.3	3.3	3.1	3.2	3.0	3.2
LSD VALUE	1.0	1.1	16.7	1.1	1.1	0.6	0.7	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.3
C.V. (%)	15.8	12.1	19.9	11.8	12.0	13.5	13.8	13.1	11.3	11.4	10.7	10.6	11.2	9.8	9.7	10.3	9.6	7.2

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

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

TABLE 21. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT CORVALLIS, OR 1/ 2017-21 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
ALLSTAR FORE (DLFPS-236/3541)	7.5	5.5	6.2	6.8	7.1	6.8	6.5	7.3	7.3	7.4	6.7	5.9	6.0	6.6
DLFPS-236/3552	7.5	5.6	6.2	6.9	7.2	6.9	6.8	7.5	7.4	7.4	6.6	5.5	5.9	6.6
FURLONG (LTP-FCB)	7.7	5.6	6.1	6.6	7.1	6.8	6.8	7.6	7.7	7.7	6.5	5.8	5.8	6.5
PPG-PR 367	7.7	5.4	6.2	6.7	7.0	6.9	6.9	7.5	7.4	7.6	6.6	5.6	5.7	6.5
PPG-PR 372	7.7	5.7	6.3	6.6	7.1	6.8	6.8	7.4	7.4	7.5	6.7	5.8	5.8	6.5
PPG-PR 422	7.3	5.6	6.2	6.6	6.7	6.8	6.8	7.5	7.5	7.5	6.7	5.9	5.8	6.5
PST-2FOXY	7.8	5.5	6.0	6.5	6.8	6.8	6.7	7.5	7.7	7.6	6.8	5.8	5.7	6.5
SLUGGER 3GL (PPG-PR 343)	7.3	5.7	6.4	6.7	6.8	6.5	6.7	7.3	7.3	7.3	6.5	5.7	5.9	6.5
STELLAR 4GL (PPG-PR 424)	7.5	5.3	6.1	6.7	7.1	6.6	6.8	7.5	7.6	7.8	6.7	5.7	5.6	6.5
SWIFT (PST-2A2)	7.3	5.5	6.2	6.6	7.0	6.7	6.8	7.4	7.4	7.3	6.7	5.8	5.7	6.5
02BS1	7.3	5.5	6.0	6.3	6.6	6.8	6.9	7.4	7.3	7.3	6.5	5.6	5.5	6.4
ALLOY (RRT)	7.2	5.3	6.0	6.6	6.7	6.6	6.7	7.3	7.5	7.6	6.7	6.1	5.7	6.4
DERBY XTREME	7.5	5.4	5.9	6.6	6.8	6.5	6.6	7.3	7.3	7.3	6.7	5.7	5.7	6.4
GATOR FORE (DLFPS-236/3544)	7.2	5.6	5.9	6.4	6.8	6.8	6.8	7.3	7.5	7.4	6.5	5.6	5.7	6.4
MIGHTIER (DLFPS-236/3542)	7.5	5.4	5.8	6.7	7.2	6.9	6.7	7.1	7.2	7.0	6.5	5.6	5.4	6.4
MYSTIQUE (DLFPS-236/3547)	7.0	5.6	6.1	6.3	6.9	6.8	6.8	7.5	7.5	7.4	6.5	5.7	5.9	6.4
NP-2	7.3	5.4	6.3	6.5	6.7	6.8	6.9	7.3	7.3	7.3	6.5	5.7	5.7	6.4
OVERDRIVE 5G	7.3	5.8	6.2	6.5	6.7	6.6	6.6	7.4	7.5	7.4	6.7	5.7	5.7	6.4
PARAGON 2 GLR (FP2)	7.3	5.3	5.9	6.3	6.8	6.8	6.8	7.3	7.3	7.4	6.7	5.9	5.7	6.4
PR-6-15	7.3	5.3	5.9	6.6	7.1	7.0	6.7	7.4	7.5	7.4	6.6	5.7	5.7	6.4
021	7.0	5.3	6.2	6.7	6.8	6.6	6.8	7.0	7.1	7.2	6.4	5.6	5.7	6.3
APPLE 3GL (PPG-PR 339)	7.5	5.3	6.1	6.7	6.8	6.7	6.8	7.3	7.3	7.3	6.4	5.7	5.8	6.3
CPN	7.2	5.2	5.9	6.3	6.7	6.7	6.8	7.4	7.3	7.1	6.5	5.6	5.3	6.3
DLFPS-236/3546	7.7	5.3	5.9	6.5	6.7	7.0	6.8	7.5	7.7	7.7	6.5	5.7	5.5	6.3
DLFPS-236/3550	7.0	5.2	6.0	6.5	6.8	6.5	6.5	7.0	7.0	6.9	6.4	5.8	5.5	6.3
DLFPS-236/3556	7.5	5.3	6.1	6.5	6.8	6.8	6.7	7.3	7.6	7.4	6.4	5.5	5.7	6.3
FASTBALL 3GL (PPG-PR 329)	7.3	5.1	5.8	6.3	6.4	6.7	6.8	7.5	7.4	7.5	6.7	5.9	5.5	6.3
GATOR CINCO (DLFPS-236/3548)	7.0	5.1	5.8	6.6	7.0	6.8	6.6	7.2	7.1	7.1	6.5	5.5	5.4	6.3
INTENSE	7.5	5.1	5.9	6.5	6.8	6.7	6.7	7.4	7.3	7.3	6.7	5.9	5.3	6.3
REVENGE 2GLX (JR-197)	7.8	5.8	6.3	6.4	6.8	6.5	6.7	7.6	7.6	7.4	6.3	5.5	5.9	6.3
LPB-SD-102	6.8	5.1	6.0	6.5	7.0	6.8	6.6	7.2	7.1	6.9	6.5	5.6	5.5	6.3
MAN O WAR	7.3	5.4	5.8	6.3	6.8	6.5	6.6	7.3	7.2	7.3	6.7	5.6	5.6	6.3
NP-3	7.5	5.5	6.0	6.6	6.7	6.5	6.8	7.2	7.3	7.3	6.5	5.3	5.5	6.3
PARADOX GLR (PPG-PR 331)	7.3	5.3	5.7	6.1	6.7	6.5	6.8	7.3	7.1	7.2	6.5	5.7	5.5	6.3
PHARAOH	7.3	5.4	5.9	6.3	6.7	6.6	6.8	7.3	7.3	7.4	6.5	5.7	5.6	6.3
ELEKTRA GLR (PPG-PR 371)	7.5	5.2	5.8	6.3	6.7	6.7	6.8	7.5	7.5	7.3	6.5	5.5	5.5	6.3
PALMER SUPREME (PPG-PR 421)	7.5	5.3	6.0	6.6	6.8	6.8	6.8	7.3	7.5	7.3	6.3	5.4	5.5	6.3
SEABISCUIT	7.3	5.3	5.9	6.3	6.6	6.6	6.7	7.2	7.3	7.2	6.3	5.6	5.5	6.3
SLIDER LS (PPG-PR 241)	7.5	5.3	5.7	6.3	6.8	6.7	6.7	7.3	7.4	7.3	6.5	5.8	5.4	6.3
SPIKE GLS (UF3)	7.5	5.2	5.8	6.3	6.8	6.5	6.7	7.5	7.5	7.4	6.7	5.7	5.4	6.3
SR 4700 (DLFPS-236/3543)	7.5	5.2	5.8	6.6	7.0	6.8	6.7	7.4	7.5	7.3	6.5	5.6	5.4	6.3
SUNBURST (02BS2)	7.2	5.2	5.9	6.4	6.7	6.6	6.7	7.3	7.1	7.3	6.7	5.7	5.5	6.3
SUPERSTAR GL (PPG-PR 420)	7.3	5.3	5.9	6.3	6.6	6.5	6.7	7.6	7.4	7.2	6.5	5.6	5.5	6.3
ZOOM 2 (DLFPS-236/3545)	7.5	5.3	6.2	6.4	6.8	6.6	6.6	7.3	7.3	7.3	6.7	5.9	5.6	6.3
ASP0118GL (A-4G)	7.3	5.3	6.0	6.6	6.8	6.7	6.6	7.0	7.3	7.2	6.3	5.4	5.3	6.2
DLFPS-236/3540	7.0	5.3	5.8	6.2	6.6	6.6	6.3	7.0	7.1	6.7	6.4	5.7	5.3	6.2
DLFPS-236/3553	7.2	5.3	5.9	6.2	6.5	6.4	6.3	7.0	7.0	7.1	6.4	5.6	5.4	6.2

TABLE 21. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT CORVALLIS, OR 1/
2017-21 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
FIESTA CINCO (DLFPS-236/3554)	7.2	5.3	5.8	6.3	6.8	6.6	6.5	6.9	7.1	7.2	6.3	5.6	5.3	6.2
GRAND SLAM GLD	7.5	5.0	5.7	6.1	6.5	6.4	6.6	7.1	7.5	7.5	6.5	5.6	5.4	6.2
IVY (PST-2GTD)	7.2	5.2	5.9	6.1	6.6	6.8	6.7	7.0	7.1	7.0	6.5	5.6	5.4	6.2
JR-123	7.3	5.0	5.6	6.3	6.8	6.7	6.6	7.3	7.4	7.2	6.4	5.5	5.3	6.2
LPB-SD-101	7.0	5.3	6.0	6.4	6.7	6.7	6.7	7.3	7.2	6.9	6.0	5.4	5.5	6.2
PL2	7.3	5.2	5.8	6.3	6.8	6.5	6.7	7.1	7.1	7.3	6.5	5.6	5.5	6.2
PPG-PR 360	7.3	5.2	5.8	6.4	6.7	6.6	6.6	7.0	7.1	7.2	6.6	5.7	5.2	6.2
PORTFOLIO (PPG-PR 423)	7.3	5.1	5.8	6.6	6.9	6.8	6.7	7.3	7.3	7.3	6.4	5.5	5.3	6.2
PR-5-16	7.0	5.2	5.8	6.5	6.7	6.3	6.4	7.0	6.8	6.8	6.3	5.5	5.4	6.2
PST-2EGAD	7.2	5.4	5.8	6.3	6.2	6.5	6.5	6.9	7.0	7.0	6.3	5.6	5.6	6.2
PST-2MAY	7.3	5.2	5.8	6.3	6.6	6.6	6.6	7.2	7.3	7.3	6.5	5.5	5.4	6.2
SILVER SPORT (PST-2CRP)	7.3	5.3	5.6	6.2	6.7	6.7	6.7	7.3	7.3	7.3	6.4	5.5	5.4	6.2
STARBRIGHT GLX (PST-2BDT)	7.3	5.1	5.9	6.4	6.7	6.5	6.6	7.2	6.9	6.9	6.2	5.5	5.5	6.2
UMPQUA	7.2	5.3	5.9	6.4	6.8	6.3	6.6	7.2	7.1	7.0	6.3	5.6	5.5	6.2
ASP0117 (A-PR15)	7.2	5.3	5.8	6.4	6.7	6.6	6.6	7.3	7.3	6.8	6.1	5.3	5.4	6.1
ASP0218 (A-6D)	7.5	5.2	5.8	6.3	6.6	6.4	6.5	7.0	7.2	7.1	6.3	5.4	5.3	6.1
CATALYST (023)	7.3	4.9	5.6	6.3	6.8	6.6	6.6	7.3	7.3	7.2	6.3	5.4	5.3	6.1
GRAY HAWK (PST-2FIND)	7.3	5.0	5.8	6.3	6.6	6.5	6.4	6.9	7.3	7.2	6.5	5.5	5.2	6.1
GRAY WOLF (PST-2GAL)	7.5	5.1	5.7	6.3	6.5	6.7	6.6	7.0	7.3	7.3	6.4	5.5	5.3	6.1
HOMERUN LS (PPG-PR 419)	7.2	5.3	5.9	6.3	6.7	6.8	6.6	7.2	7.1	6.9	6.2	5.5	5.4	6.1
JR-747	6.8	4.9	5.6	6.3	6.8	6.8	6.6	7.0	7.0	6.8	6.1	5.5	5.1	6.1
KARMA	7.3	5.0	5.8	6.5	6.8	6.6	6.7	7.1	7.0	7.2	6.4	5.4	5.3	6.1
MENSA	6.7	5.2	5.8	6.3	6.8	6.6	6.3	6.9	6.7	6.8	6.1	5.4	5.2	6.1
PPG-PR 370	7.2	4.8	5.5	6.2	6.9	6.6	6.7	7.3	7.1	7.1	6.3	5.4	5.3	6.1
RAD-PR 112	7.3	5.3	6.1	6.6	6.8	6.4	6.3	6.9	6.9	6.8	6.2	5.3	5.3	6.1
SHIELD (02BS4)	7.0	5.2	6.0	6.3	6.3	6.4	6.4	6.8	6.9	7.1	6.4	5.3	5.5	6.1
XCELERATOR	7.0	5.0	5.8	6.3	6.7	6.7	6.8	7.3	7.2	7.1	6.4	5.5	5.1	6.1
ASP0116EXT	7.2	5.2	5.9	6.4	6.5	6.4	6.5	6.8	6.8	6.8	5.9	5.3	5.3	6.0
BAR LP 6117	7.0	4.8	5.8	6.4	6.6	6.3	6.2	6.7	6.8	6.3	6.1	5.3	5.1	6.0
BAR LP 6164	7.0	4.9	5.6	6.1	6.5	6.5	6.4	6.8	6.8	6.6	6.1	5.2	5.1	6.0
CS-6	7.0	5.1	5.8	6.4	6.4	6.5	6.4	7.0	7.2	7.0	6.1	5.1	5.3	6.0
FIREBALL (BWH)	7.8	5.2	5.7	6.3	6.6	6.4	6.2	7.3	7.2	6.9	5.9	5.3	5.3	6.0
HELIOS (DLFPS-236/3538)	7.0	4.9	5.6	6.5	6.8	6.4	6.3	6.8	6.8	6.4	6.1	5.4	5.1	6.0
LPB-SD-103	6.8	4.9	5.7	6.1	6.6	6.3	6.4	7.1	6.9	6.7	6.2	5.6	4.9	6.0
LPB-SD-104	6.7	4.8	5.3	6.2	6.8	6.6	6.5	7.2	7.0	6.8	6.1	5.5	4.8	6.0
LPB-SD-105	7.0	5.0	5.5	6.1	6.8	6.5	6.3	6.8	6.8	6.9	6.1	5.6	4.9	6.0
MRSL-PR15	6.8	5.1	5.8	6.4	6.7	6.4	6.4	7.0	6.8	6.7	5.7	5.1	5.2	6.0
PEPPER II (RAD-PR 103)	7.2	5.0	5.8	6.3	6.8	6.4	6.3	6.8	6.9	6.9	6.1	5.5	5.1	6.0
PPG-PR 385	7.2	4.8	5.7	6.3	6.6	6.3	6.6	6.9	6.8	6.8	6.3	5.4	5.3	6.0
SAGUARO	7.0	5.1	5.8	6.3	6.6	6.4	6.2	6.9	6.8	6.8	6.2	5.4	5.3	6.0
SAVANT	7.0	4.8	5.5	6.3	6.8	6.4	6.1	6.8	6.9	6.8	6.1	5.3	5.0	6.0
TEE-ME-UP (BSP-25)	7.0	5.3	6.0	6.6	6.7	6.4	6.5	7.0	6.8	6.7	5.8	5.3	5.5	6.0
APR2616	7.0	4.8	5.5	6.2	6.4	6.4	6.2	6.6	6.8	6.9	6.1	5.0	5.1	5.9
BAR LP 6158	6.8	4.8	5.4	6.1	6.3	6.3	6.2	6.6	6.6	6.5	6.2	5.3	5.0	5.9
BAR LP 6165	6.5	4.9	5.7	6.1	6.4	6.2	6.1	6.6	6.7	6.4	6.0	5.4	5.2	5.9
BELIZE 2 (GO-142)	7.0	4.9	5.8	6.3	6.6	6.4	6.3	6.7	6.7	6.8	6.1	5.1	5.1	5.9
CAYMAN (GO-143)	7.3	5.0	5.8	6.3	6.5	6.4	6.3	6.8	6.9	6.8	6.0	5.2	5.2	5.9

TABLE 21. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT CORVALLIS, OR 1/
2017-21 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
HATRICK (BSP-17)	7.5	5.3	5.7	6.2	6.4	6.2	6.6	7.1	6.8	6.6	5.7	5.1	5.4	5.9
JR-888	7.0	4.8	5.6	6.3	6.5	6.3	6.3	7.1	7.1	6.8	6.1	5.3	5.1	5.9
MRSL-PR16	7.2	5.0	5.5	6.0	6.4	6.5	6.3	6.8	6.8	6.8	5.9	5.2	5.2	5.9
NEXUS GT (SNX)	7.5	5.1	5.6	6.4	6.3	6.3	6.3	6.9	7.0	6.9	6.0	5.3	5.3	5.9
PST-2PDA	7.0	4.9	5.7	6.2	6.2	6.3	6.3	6.8	6.8	6.3	6.2	5.4	4.9	5.9
SIGNET	7.0	4.8	5.7	6.3	6.5	6.4	6.4	6.9	6.9	6.8	6.1	5.2	5.1	5.9
SR 4650	7.2	4.9	5.8	6.3	6.4	6.4	6.6	7.0	7.0	6.8	5.9	5.1	5.2	5.9
ALLSTAR III	6.8	5.0	5.6	6.0	6.4	6.3	6.0	6.7	6.6	6.4	5.9	5.2	5.0	5.8
APR2612	7.3	4.8	5.5	6.0	6.3	6.3	6.4	7.0	6.9	6.8	5.8	5.1	5.0	5.8
BAR LP 6131	6.8	4.8	5.4	6.1	6.3	6.3	6.4	6.8	6.6	6.3	5.8	5.2	4.9	5.8
BAR LP 6159	7.2	4.8	5.4	6.1	6.1	6.3	6.2	6.6	6.8	6.5	6.0	5.1	4.9	5.8
DLFPS-238/3014	6.7	4.8	5.8	6.2	6.2	6.3	6.2	6.6	6.5	6.3	5.9	5.1	5.2	5.8
EVOLVE	6.8	4.8	5.8	6.0	6.2	6.3	6.1	6.7	6.7	6.3	5.8	5.3	5.1	5.8
GO-141	7.0	4.7	5.3	5.9	6.3	6.2	6.2	6.8	6.7	6.6	5.7	4.9	5.2	5.8
BAR LP 6233	7.0	4.7	5.4	5.8	6.2	6.4	6.3	6.8	6.8	6.7	6.0	5.0	5.0	5.7
GREEN SUPREME+ (AMP-R1)	7.0	4.7	5.3	6.1	6.3	6.3	6.5	6.9	6.7	6.7	5.9	5.1	5.0	5.7
APR3060	7.2	4.5	5.4	5.8	5.9	6.2	6.2	6.8	6.7	6.5	5.6	4.9	4.9	5.6
BAR LP 6162	6.5	4.8	5.4	6.0	5.9	6.0	5.8	6.3	6.2	6.1	5.8	5.1	5.1	5.6
BRIGHTSTAR SLT	6.8	4.5	5.3	5.9	6.1	6.1	6.1	6.6	6.5	6.4	5.9	5.2	4.8	5.6
LINN	5.8	4.3	4.9	5.3	5.1	5.5	5.6	5.8	5.9	5.9	5.3	4.5	4.9	5.1
LSD VALUE	0.6	0.8	0.6	0.8	0.6	0.5	0.4	0.4	0.5	0.4	0.6	0.9	0.5	0.3
C.V. (%)	6.7	14.0	10.7	10.2	10.0	8.3	7.7	7.1	8.9	7.8	11.2	14.6	11.7	7.7

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

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

TABLE 22. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2017 DATA

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

	QUALITY RATINGS						QUALITY RATINGS			2-WEEKS	BEFORE TRAFFIC		MIDDLE OF TRAFFIC		LAST TRAFFIC	
NAME	APR	MAY	JUN	JUL	AUG	SEP	BEFORE TRAFFIC	MID 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
MIGHTIER (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-2FOXY	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
HOMERUN LS (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
02BS1	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
GATOR FORE (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
ZOOM 2 (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
HATRICK (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
NEXUS GT (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
SR 4700 (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
SUPERSTAR GL (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
PALMER SUPREME (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
MRSL-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
ELEKTRA GLR (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
MYSTIQUE (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
TEE-ME-UP (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
FIREBALL (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
PARAGON 2 GLR (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
BELIZE 2 (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
SLUGGER 3GL (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

TABLE 22. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2017 DATA

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

	QUALITY RATINGS						QUALITY RATINGS			2-WEEKS	BEFORE TRAFFIC		MIDDLE OF TRAFFIC		LAST TRAFFIC	
NAME	APR	MAY	JUN	JUL	AUG	SEP	BEFORE TRAFFIC	MID TRAFFIC	LAST TRAFFIC	AFTER TRAFFIC	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER
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
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
SPIKE GLS (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
STELLAR 4GL (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
HELIOS (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
FIESTA CINCO (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
GREEN SUPREME+ (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
GATOR CINCO (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
ALLOY (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
STARBRIGHT GLX (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
IVY (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
REVENGE 2GLX (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
021	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
ALLSTAR FORE (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
CAYMAN (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
SLIDER LS (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
PARADOX GLR (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
APPLE 3GL (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

TABLE 22. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2017 DATA

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

	QUALITY RATINGS						QUALITY RATINGS			2-WEEKS	BEFORE TRAFFIC		MIDDLE OF TRAFFIC		LAST TRAFFIC	
NAME	APR	MAY	JUN	JUL	AUG	SEP	BEFORE TRAFFIC	MID TRAFFIC	LAST TRAFFIC	AFTER TRAFFIC	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER	% GREEN COVER	% BARE COVER
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
PORTFOLIO (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
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
SUNBURST (02BS2)	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
CATALYST (023)	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
SWIFT (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
FASTBALL 3GL (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 22. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2018 DATA

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

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

TABLE 22. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2018 DATA

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

	QUALITY RATINGS					PERCENT GROUND COVER	QUALITY	PERCENT COVER	QUALITY	PERCENT GROUND COVER	QUALITY
NAME	MAY	JUN	JUL	AUG	MEAN	PRE-TRAFFIC	MID-TRAFFIC	POST TRAFFIC	POST TRAFFIC	2 WKS TRAFFIC	POST TRAFFIC
STELLAR 4GL (PPG-PR 424)	6.7	8.0	7.3	6.7	7.2	99	7.0	99.0	7.0	99.0	7.0
PR-5-16	7.0	8.0	7.3	7.3	7.4	99	7.3	99.0	7.0	99.0	7.0
PR-6-15	6.3	8.0	7.0	7.3	7.2	99	7.7	99.0	7.0	99.0	7.0
PST-2EGAD	6.0	8.0	7.0	6.7	6.9	99	7.0	99.0	7.0	99.0	7.0
PST-2FOXY	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	7.0	99.0	7.0
IVY (PST-2GTD)	6.7	8.0	7.3	7.0	7.3	99	7.3	99.0	7.0	99.0	7.0
PST-2PDA	7.0	8.0	7.0	7.0	7.3	99	7.0	99.0	7.0	99.0	7.0
SEABISCUIT	7.0	8.0	7.7	8.0	7.7	99	7.7	99.0	7.0	99.0	7.0
SIGNET	6.7	8.0	7.0	7.0	7.2	99	7.3	99.0	7.0	99.0	7.0
SILVER SPORT (PST-2CRP)	7.0	8.0	7.3	7.0	7.3	99	7.3	99.0	7.0	99.0	7.0
SLUGGER 3GL (PPG-PR 343)	7.3	8.0	8.0	7.7	7.8	99	7.7	99.0	7.0	99.0	7.0
NEXUS GT (SNX)	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	7.0	99.0	7.0
UMPQUA	6.3	8.0	7.7	7.7	7.4	99	8.0	99.0	7.0	99.0	7.0
ALLOY (RRT)	7.0	8.0	7.0	7.0	7.3	99	6.7	99.0	6.7	99.0	6.7
APR2616	6.7	8.0	7.7	7.3	7.4	99	7.3	99.0	6.7	99.0	6.7
BRIGHTSTAR SLT	6.3	8.0	7.0	7.0	7.1	99	7.0	99.0	6.7	99.0	6.7
DLFPS-236/3540	6.7	8.0	7.0	6.7	7.1	99	6.7	99.0	6.7	99.0	6.7
ALLSTAR FORE (DLFPS-236/3541)	7.0	8.0	7.0	6.7	7.2	99	6.7	94.3	6.3	96.0	6.7
GATOR FORE (DLFPS-236/3544)	7.0	8.0	7.0	6.7	7.2	99	6.7	99.0	6.7	99.0	6.7
DLFPS-236/3552	7.0	8.0	7.3	6.7	7.3	99	6.7	99.0	6.7	99.0	6.7
FIESTA CINCO (DLFPS-236/3554)	7.0	8.0	7.7	7.0	7.4	99	7.3	99.0	6.7	99.0	6.7
EVOLVE	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	6.7	99.0	6.7
FASTBALL 3GL (PPG-PR 329)	6.3	8.0	7.3	6.7	7.1	99	6.7	99.0	6.7	99.0	6.7
FURLONG (LTP-FCB)	6.7	8.0	7.7	7.0	7.3	99	6.7	99.0	6.7	99.0	6.7
GRAY HAWK (PST-2FIND)	6.0	8.0	7.0	7.0	7.0	99	6.7	99.0	6.7	99.0	6.7
INTENSE	6.7	8.0	8.0	7.3	7.5	99	7.0	99.0	6.7	99.0	6.7
NP-3	6.3	8.0	7.3	6.3	7.0	99	6.7	99.0	6.7	99.0	6.7
PEPPER II (RAD-PR 103)	6.3	8.0	7.0	6.7	7.0	99	7.0	99.0	6.7	99.0	6.7
PHARAOH	6.0	8.0	7.7	6.7	7.1	99	6.7	99.0	6.7	99.0	6.7
PPG-PR 372	6.7	8.0	7.7	6.7	7.3	99	6.7	99.0	6.7	99.0	6.7
PPG-PR 422	7.0	8.0	7.7	7.0	7.4	99	6.7	99.0	6.7	99.0	6.7
PORTFOLIO (PPG-PR 423)	6.7	8.0	7.7	6.7	7.3	99	7.0	99.0	6.7	99.0	6.7
STARBRIGHT GLX (PST-2BDT)	6.7	8.0	7.0	6.3	7.0	99	6.7	99.0	6.7	99.0	6.7
PST-2MAY	6.0	8.0	7.0	6.7	6.9	99	6.7	99.0	6.7	99.0	6.7
RAD-PR 112	7.0	8.0	7.0	6.0	7.0	99	6.7	99.0	6.7	99.0	6.7
SHIELD (02BS4)	6.3	8.0	7.3	7.0	7.2	99	7.0	99.0	6.7	99.0	6.7
SR 4650	6.7	8.0	7.3	6.7	7.2	99	6.7	99.0	6.7	99.0	6.7
XCELERATOR	6.3	8.0	7.3	7.3	7.3	99	7.0	99.0	6.7	99.0	6.7
APR2612	6.3	8.0	7.0	6.3	6.9	99	6.3	94.3	6.3	96.0	6.3
ASP0218 (A-6D)	6.7	8.0	7.0	6.7	7.1	99	6.3	99.0	6.3	99.0	6.3
BAR LP 6233	6.3	8.0	7.0	6.7	7.0	99	6.3	99.0	6.3	99.0	6.3
TEE-ME-UP (BSP-25)	6.0	7.3	7.0	6.0	6.6	99	6.3	97.7	6.3	97.7	6.3
DLFPS-236/3546	6.7	8.0	7.0	6.3	7.0	99	6.7	99.0	6.3	99.0	6.3
DLFPS-236/3553	7.0	8.0	7.3	6.0	7.1	99	6.3	99.0	6.3	99.0	6.3
GRAND SLAM GLD	6.7	8.0	7.0	6.3	7.0	99	6.3	99.0	6.3	99.0	6.3
JR-888	6.7	8.0	7.3	6.7	7.2	99	6.3	99.0	6.3	99.0	6.3
LPB-SD-101	6.7	8.0	7.0	6.7	7.1	99	6.3	99.0	6.0	99.0	6.3

TABLE 22. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2018 DATA

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

NAME	QUALITY RATINGS MAY	JUN	JUL	AUG	MEAN	PERCENT GROUND COVER PRE-TRAFFIC	QUALITY MID-TRAFFIC	PERCENT COVER POST TRAFFIC	QUALITY POST TRAFFIC	PERCENT GROUND COVER 2 WKS TRAFFIC	QUALITY POST TRAFFIC
MRSL-PR15	6.3	8.0	6.7	6.7	6.9	99.0	6.3	94.3	6.3	94.3	6.3
PL2	6.7	8.0	7.0	6.7	7.1	99.0	6.7	99.0	6.3	99.0	6.3
PPG-PR 360	7.0	8.0	7.7	6.7	7.3	99.0	6.7	97.7	6.3	96.0	6.3
SWIFT (PST-2A2)	6.7	8.0	7.3	6.0	7.0	99.0	6.7	99.0	6.3	99.0	6.3
SLIDER LS (PPG-PR 241)	6.3	8.0	7.3	6.7	7.1	99.0	6.7	99.0	6.3	99.0	6.3
SPIKE GLS (UF3)	6.0	8.0	7.0	6.7	6.9	99.0	6.7	99.0	6.3	99.0	6.3
ALLSTAR III	6.3	8.0	6.7	5.7	6.7	99.0	6.0	99.0	6.0	99.0	6.0
HATRICK (BSP-17)	5.3	6.7	6.0	6.7	6.2	87.7	6.3	87.7	6.0	87.7	6.0
FIREBALL (BWH)	6.0	7.3	6.7	6.3	6.6	99.0	6.0	94.3	6.0	94.3	6.0
SR 4700 (DLFPS-236/3543)	6.7	8.0	7.0	6.0	6.9	99.0	6.0	97.7	6.0	97.7	6.0
SAGUARO	7.0	8.0	7.0	6.0	7.0	99.0	6.0	99.0	6.0	99.0	6.0
JR-747	6.7	7.7	6.7	5.7	6.7	99.0	5.7	94.3	5.7	94.3	5.7
KARMA	7.3	8.0	7.0	6.0	7.1	99.0	5.7	96.0	5.7	96.0	5.7
LPB-SD-102	6.3	8.0	7.0	5.7	6.8	99.0	5.7	97.7	5.7	96.0	5.7
LPB-SD-103	7.0	8.0	7.0	6.0	7.0	99.0	5.7	96.0	5.7	94.3	5.7
MENSA	6.7	8.0	7.0	6.3	7.0	99.0	5.7	99.0	5.7	97.7	5.7
LPB-SD-104	6.3	7.0	6.0	5.3	6.2	99.0	5.3	88.0	5.3	86.3	5.3
SAVANT	6.7	8.0	7.0	5.7	6.8	99.0	5.3	85.0	5.3	86.7	5.3
LPB-SD-105	6.3	8.0	6.7	5.0	6.5	99.0	5.0	86.7	5.0	86.7	5.0
LINN	5.0	4.3	3.7	2.7	3.9	97.7	3.7	76.7	3.7	73.3	3.7
LSD VALUE	1.9	0.5	0.9	1.6	0.7	8.3	1.3	6.4	1.0	5.9	1.0
C.V. (%)	8.9	4.1	7.0	11.6	5.6	1.9	10.5	3.5	8.4	3.5	8.3

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

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

TABLE 22. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2019 DATA

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

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

TABLE 22. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2019 DATA

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

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

TABLE 22. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2019 DATA

	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/														
	QUALITY RATINGS					QUALITY PRE	PERCENT GREEN COVER PRE	PERCENT BARE GROUND PRE		PERCENT GREEN COVER POST	PERCENT BARE GROUND POST	QUALITY POST	PERCENT GREEN COVER 2 WEEKS POST	PERCENT BARE GROUND 2 WEEKS POST	QUALITY 2 WEEKS POST
NAME	MAY	JUN	JUL	AUG	MEAN	TRAFFIC	TRAFFIC	TRAFFIC	MIDTRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC
SIGNET	8.0	8.0	6.3	5.0	6.8	5.0	91.3	8.3	5.0	83.0	16.7	5.0	89.7	10.0	5.0
SILVER SPORT (PST-2CRP)	8.0	7.7	6.7	5.0	6.8	5.0	90.0	10.0	5.0	80.0	20.0	5.0	90.0	10.0	5.0
SLIDER LS (PPG-PR 241)	8.0	8.7	6.0	5.0	6.9	5.0	91.3	8.3	5.0	83.0	16.7	5.0	89.7	10.0	5.0
SR 4650	8.0	7.0	5.7	4.3	6.3	4.3	91.3	8.3	4.3	83.3	16.7	5.0	86.7	13.3	5.0
SUNBURST (02BS2)	8.0	6.7	6.3	4.7	6.4	4.7	88.3	11.7	4.7	78.3	21.7	4.7	88.3	11.7	4.7
APR2612	7.0	6.0	5.7	4.7	5.8	4.7	88.0	11.7	4.7	81.3	18.3	4.7	86.3	13.3	4.7
DLFPS-236/3546	7.7	7.0	6.3	4.3	6.3	4.3	88.3	11.7	4.3	78.3	21.7	4.7	88.3	11.7	4.7
HATRICK (BSP-17)	6.0	6.7	5.7	4.7	5.8	4.7	80.0	20.0	4.7	73.3	26.7	5.0	81.7	18.3	4.7
KARMA	8.7	8.3	5.0	4.3	6.6	4.3	88.0	11.7	4.3	80.0	20.0	4.7	83.3	16.7	4.7
LPB-SD-102	5.0	5.7	4.7	4.7	5.0	4.7	85.0	15.0	4.7	75.0	25.0	4.7	83.3	16.7	4.7
LPB-SD-104	5.0	5.7	4.3	4.7	4.9	4.7	88.0	11.7	4.7	81.3	18.3	4.7	84.7	15.0	4.7
PARADOX GLR (PPG-PR 331)	7.3	7.7	6.0	4.7	6.4	4.7	89.7	10.0	4.7	83.0	16.7	4.7	88.0	11.7	4.7
PARAGON 2 GLR (FP2)	7.7	7.7	6.3	4.7	6.6	4.7	88.3	11.7	4.7	78.3	21.7	4.7	86.7	13.3	4.7
SAGUARO	5.7	6.3	5.3	4.3	5.4	4.3	89.7	10.0	4.3	83.0	16.7	4.7	88.0	11.7	4.7
LPB-SD-105	4.7	5.0	4.7	4.3	4.7	4.3	81.7	18.3	4.3	72.3	27.7	4.3	78.3	21.7	4.3
MENSA	5.0	5.7	4.0	4.7	4.8	4.7	88.3	11.7	4.3	76.7	23.3	4.3	85.0	15.0	4.3
BRIGHTSTAR SLT	6.0	6.7	4.3	3.3	5.1	3.3	85.0	15.0	3.3	71.7	28.3	4.0	81.7	18.3	4.0
DERBY XTREME	8.0	7.3	6.0	4.0	6.3	4.0	83.3	16.7	4.0	73.3	26.7	4.0	80.0	20.0	4.0
SAVANT	5.0	5.3	4.3	4.0	4.7	4.0	78.3	21.7	4.0	68.3	31.7	4.0	76.7	23.3	4.0
LINN	4.0	5.3	2.7	2.3	3.6	2.3	65.0	35.0	2.3	55.0	45.0	3.0	58.3	41.7	3.0
LSD VALUE	1.9	1.9	3.2	2.6	1.3	2.7	12.2	13.0	2.6	23.7	24.8	2.3	14.2	15.0	2.2
C.V. (%)	13.8	13.5	20.9	19.8	11.1	20.1	6.5	97.0	19.8	11.9	84.7	17.2	7.6	90.0	17.1

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

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

TABLE 23. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2018-21 DATA

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

NAME	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
DLFPS-236/3556	4.3	4.5	5.2	4.8	5.1	5.3	5.8	5.3	5.1
NP-3	4.3	4.4	5.2	4.4	4.8	5.1	5.0	5.1	4.8
PORTFOLIO (PPG-PR 423)	3.3	3.9	5.3	4.7	5.3	4.8	5.0	4.9	4.8
BAR LP 6233	3.7	4.2	5.3	4.8	5.3	4.8	4.5	4.7	4.7
STELLAR 4GL (PPG-PR 424)	3.3	4.0	5.4	4.6	5.0	4.9	4.8	4.8	4.7
SUNBURST (02BS2)	4.0	4.2	4.8	4.1	4.9	5.1	5.2	5.1	4.7
FIESTA CINCO (DLFPS-236/3554)	3.7	3.9	5.3	4.6	4.8	4.9	4.5	4.9	4.6
REVENGE 2GLX (JR-197)	4.0	4.1	5.0	4.4	4.7	4.9	5.0	4.9	4.6
PL2	3.3	4.2	5.2	4.3	4.7	4.7	4.6	4.9	4.6
PPG-PR 367	3.0	3.8	4.7	4.4	5.1	5.1	5.0	5.0	4.6
PALMER SUPREME (PPG-PR 421)	4.0	3.9	5.2	4.6	4.8	4.5	4.8	4.8	4.6
SWIFT (PST-2A2)	3.3	3.7	5.3	4.8	4.7	4.7	5.0	4.7	4.6
ZOOM 2 (DLFPS-236/3545)	3.7	4.1	5.0	4.4	4.5	4.9	4.8	4.9	4.6
ASP0117 (A-PR15)	3.7	4.0	4.6	4.6	4.8	4.4	5.0	4.7	4.5
DLFPS-238/3014	3.0	3.9	5.0	4.4	5.1	4.8	4.6	4.6	4.5
SAGUARO	3.7	3.9	4.5	4.8	4.6	4.6	4.8	4.7	4.5
SLIDER LS (PPG-PR 241)	3.7	3.8	4.7	4.1	4.9	4.7	5.0	4.9	4.5
021	3.3	4.1	4.7	4.1	4.5	4.4	4.8	4.8	4.4
CATALYST (023)	3.0	3.7	4.9	4.1	4.5	4.7	4.8	4.8	4.4
DLFPS-236/3553	3.0	3.5	4.6	4.2	4.5	4.7	5.2	4.7	4.4
HELIOS (DLFPS-236/3538)	3.3	3.8	4.8	4.6	4.9	4.0	4.7	4.6	4.4
INTENSE	3.3	3.7	4.8	4.4	4.9	4.2	4.5	4.7	4.4
IVY (PST-2GTD)	3.7	4.0	4.8	4.6	4.7	4.2	4.7	4.4	4.4
MYSTIQUE (DLFPS-236/3547)	3.3	3.4	4.4	4.3	4.8	4.8	5.0	5.1	4.4
NP-2	4.0	3.8	4.4	4.3	4.6	4.8	4.6	4.9	4.4
OVERDRIVE 5G	3.0	3.9	5.1	4.3	4.6	4.6	4.6	4.7	4.4
PPG-PR 360	3.0	3.7	4.7	4.3	4.6	4.7	4.5	4.8	4.4
SUPERSTAR GL (PPG-PR 420)	3.3	3.9	4.8	4.2	4.9	4.3	4.4	4.9	4.4
ASP0218 (A-6D)	3.3	3.9	5.0	4.1	4.5	4.2	4.5	4.3	4.3
BAR LP 6131	2.7	3.5	4.9	4.0	4.7	4.3	4.5	4.6	4.3
BAR LP 6165	3.0	3.5	4.2	4.4	5.0	4.4	4.4	4.8	4.3
GATOR CINCO (DLFPS-236/3548)	3.3	3.5	4.8	4.4	4.7	4.4	4.5	4.7	4.3
KARMA	2.7	3.5	4.6	4.8	4.6	4.2	4.7	4.4	4.3
PPG-PR 422	3.3	3.7	4.5	4.1	4.6	4.5	4.7	4.7	4.3
PR-6-15	2.7	3.5	4.9	4.3	4.4	4.2	4.7	4.3	4.3
SILVER SPORT (PST-2CRP)	3.7	3.8	4.9	4.0	4.7	4.5	4.3	4.4	4.3
XCELERATOR	3.3	3.7	4.8	4.2	4.7	4.5	4.6	4.6	4.3
APR3060	3.0	3.6	4.4	4.0	4.6	4.3	4.5	4.3	4.2
EVOLVE	3.0	3.6	4.8	4.1	4.3	4.3	4.3	4.2	4.2
FASTBALL 3GL (PPG-PR 329)	3.7	4.0	4.7	3.9	4.5	4.3	4.3	4.2	4.2
GATOR FORE (DLFPS-236/3544)	3.3	3.4	4.8	4.1	4.4	4.3	4.8	4.6	4.2
HOMERUN LS (PPG-PR 419)	3.0	3.3	4.6	4.7	4.5	4.2	4.3	4.6	4.2
LPB-SD-103	3.3	3.5	4.6	4.1	4.7	4.2	4.5	4.2	4.2
PARADOX GLR (PPG-PR 331)	3.7	3.7	4.5	4.2	4.4	4.3	4.5	4.3	4.2
PPG-PR 385	3.3	3.8	4.4	4.6	4.6	4.3	3.9	4.6	4.2
PR-5-16	3.3	3.5	4.3	4.0	4.5	4.3	4.5	4.6	4.2
PST-2PDA	3.3	3.7	4.6	4.1	4.4	4.3	4.6	4.2	4.2

TABLE 23. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2018-2021 DATA

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

	QUALITY RATINGS								
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SAVANT	3.0	3.9	4.8	4.2	4.3	4.0	4.6	4.3	4.2
SR 4700 (DLFPS-236/3543)	3.7	3.4	4.3	4.2	4.6	4.3	4.8	4.7	4.2
02BS1	3.0	3.7	4.5	3.9	4.2	4.1	4.5	4.7	4.1
ALLOY (RRT)	3.0	3.6	4.5	4.2	4.3	3.8	4.3	4.4	4.1
ALLSTAR FORE (DLFPS-236/3541)	3.3	3.3	4.5	4.2	4.0	4.2	4.4	4.3	4.1
APR2612	3.0	3.3	4.4	4.1	4.4	4.2	4.2	4.4	4.1
CS-6	2.7	3.7	4.6	3.9	4.8	3.9	4.3	4.4	4.1
MAN O WAR	3.0	3.5	4.5	4.2	4.3	4.2	4.3	4.7	4.1
PPG-PR 370	3.0	3.6	4.4	4.0	4.2	4.2	4.5	4.6	4.1
STARBRIGHT GLX (PST-2BDT)	3.3	3.2	4.3	4.1	4.3	4.3	4.5	4.4	4.1
APR2616	2.7	3.6	4.3	4.2	4.5	3.8	4.0	4.1	4.0
BAR LP 6164	3.0	3.6	4.4	4.1	4.2	3.9	4.3	4.2	4.0
CPN	2.7	3.4	4.5	4.0	4.4	3.8	4.2	4.2	4.0
DLFPS-236/3546	3.7	3.5	4.3	3.8	4.2	4.3	4.4	4.3	4.0
DLFPS-236/3552	3.0	3.3	4.3	4.2	4.5	3.8	3.8	4.4	4.0
FURLONG (LTP-FCB)	3.0	3.3	4.3	3.9	4.3	4.1	4.8	4.2	4.0
MRSL-PR16	3.0	3.3	4.4	4.0	4.2	4.1	4.3	4.1	4.0
PARAGON 2 GLR (FP2)	2.7	3.3	4.3	4.1	4.2	4.1	4.3	4.4	4.0
PHARAOH	3.3	3.3	4.1	4.1	4.4	3.9	4.0	4.4	4.0
PST-2EGAD	3.3	3.9	4.1	3.8	4.3	3.8	4.4	4.3	4.0
SIGNET	3.0	3.0	4.7	4.2	4.3	4.0	4.3	4.4	4.0
SPIKE GLS (UF3)	3.3	3.3	4.2	4.0	4.3	3.9	4.6	4.6	4.0
UMPQUA	3.3	3.5	4.0	3.8	4.6	4.2	4.3	4.4	4.0
ALLSTAR III	2.0	3.7	4.8	3.8	4.2	3.7	3.7	4.0	3.9
APPLE 3GL (PPG-PR 339)	3.0	3.2	4.2	3.8	4.2	3.9	4.3	4.2	3.9
BAR LP 6158	2.7	3.3	4.4	3.7	4.1	4.0	4.2	3.9	3.9
BELIZE 2 (GO-142)	2.7	3.1	4.6	4.0	4.5	3.5	3.8	4.0	3.9
DERBY XTREME	2.7	3.5	4.5	3.8	4.2	3.8	4.0	3.9	3.9
DLFPS-236/3540	2.7	3.3	4.3	3.7	4.3	4.2	4.1	4.0	3.9
GO-141	3.0	3.6	4.4	4.2	4.3	3.7	3.9	4.1	3.9
ELEKTRA GLR (PPG-PR 371)	3.0	3.1	4.1	4.1	4.7	4.1	3.9	4.0	3.9
PST-2FOXY	2.7	3.3	4.1	3.9	4.3	4.1	3.9	3.9	3.9
TEE-ME-UP (BSP-25)	3.0	3.3	4.3	3.7	3.9	3.8	4.3	4.3	3.9
BRIGHTSTAR SLT	3.0	3.1	4.3	3.8	4.3	3.4	4.2	3.9	3.8
GRAY HAWK (PST-2FIND)	2.7	3.0	4.1	3.8	4.2	3.9	3.9	4.0	3.8
HATRICK (BSP-17)	3.0	3.5	4.5	3.9	3.8	3.5	3.8	3.7	3.8
MRSL-PR15	2.7	3.4	4.3	3.7	3.8	3.7	4.2	4.0	3.8
PPG-PR 372	2.7	2.8	3.8	4.0	4.2	4.2	4.1	4.2	3.8
SEABISCUIT	3.3	3.4	3.9	4.0	3.8	3.8	4.2	4.1	3.8
SHIELD (02BS4)	3.3	3.4	4.1	3.7	4.3	3.7	4.0	3.8	3.8
FIREBALL (BWH)	2.7	2.9	4.0	3.7	3.7	3.8	4.2	3.9	3.7
GRAY WOLF (PST-2GAL)	3.0	2.9	3.9	3.4	3.6	3.9	4.3	4.4	3.7
JR-888	2.3	3.1	4.0	3.9	4.1	3.7	4.1	4.0	3.7
MIGHTIER (DLFPS-236/3542)	3.0	3.1	4.1	3.7	3.9	3.8	4.0	4.0	3.7
PST-2MAY	3.0	2.8	4.2	3.8	4.2	3.7	4.0	3.9	3.7
SR 4650	3.0	3.1	3.9	3.9	3.8	3.6	4.1	3.9	3.7
BAR LP 6159	2.3	3.1	4.0	3.6	4.3	3.3	3.8	3.4	3.6

TABLE 23. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2018-2021 DATA

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

NAME	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
DLFPS-236/3550	2.7	3.3	3.8	3.6	3.9	3.3	3.7	3.8	3.6
LPB-SD-101	2.7	3.2	3.3	3.6	4.3	3.7	4.1	4.1	3.6
MENSA	2.7	3.2	3.8	3.8	4.0	3.6	3.8	3.8	3.6
PEPPER II (RAD-PR 103)	2.7	3.2	3.7	3.6	3.9	3.4	4.0	3.8	3.6
ASP0118GL (A-4G)	2.3	3.1	3.7	3.7	4.0	3.3	3.3	3.9	3.5
BAR LP 6117	2.0	3.3	3.6	3.6	3.9	3.5	3.7	3.7	3.5
GRAND SLAM GLD	2.7	2.8	3.6	3.4	3.7	3.6	3.7	4.1	3.5
NEXUS GT (SNX)	2.3	3.0	3.5	3.3	3.8	3.1	3.7	3.9	3.4
ASP0116EXT	2.0	2.9	3.8	3.3	3.8	3.3	3.3	3.4	3.3
GREEN SUPREME+ (AMP-R1)	2.3	2.8	3.5	3.2	3.4	3.7	3.8	3.7	3.3
JR-123	2.3	2.7	3.2	3.4	3.5	3.3	3.5	4.1	3.3
SLUGGER 3GL (PPG-PR 343)	2.3	2.5	3.6	3.4	3.3	3.2	3.4	3.7	3.2
BAR LP 6162	2.0	2.8	3.4	3.1	3.6	3.1	3.3	3.1	3.1
CAYMAN (GO-143)	2.7	2.7	3.4	3.2	3.3	2.8	3.3	3.7	3.1
LPB-SD-102	1.7	2.5	3.3	3.3	3.6	2.8	3.4	3.3	3.1
LPB-SD-105	2.0	2.6	3.0	3.6	3.4	3.3	3.5	3.4	3.1
RAD-PR 112	2.3	2.6	3.3	3.2	3.4	3.1	3.3	3.1	3.1
LPB-SD-104	2.0	2.3	3.1	2.9	3.3	3.0	3.4	3.2	2.9
JR-747	1.7	2.2	2.8	2.9	2.8	2.8	3.2	3.3	2.7
LINN	2.0	2.0	2.4	2.7	3.0	2.6	2.8	2.8	2.6
LSD VALUE	1.2	2.5	1.1	0.8	1.0	0.9	0.9	1.8	0.8
C.V. (%)	20.8	42.7	27.6	19.8	25.4	26.2	24.9	27.8	22.9

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 24. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/ 2017-2021 DATA

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

NAME	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT SEPTEMBER	PERCENT ESTABLISHMENT OCTOBER	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
HATRICK (BSP-17)	6.1	6.3	40.0	90.0	5.6	6.5	6.7	5.1	5.1	6.1	5.7	5.9
PPG-PR 370	5.7	6.0	46.7	93.0	5.3	6.7	6.7	5.5	5.1	5.9	5.3	5.9
SILVER SPORT (PST-2CRP)	5.9	7.3	36.7	83.3	5.8	6.3	6.1	5.0	5.8	6.3	5.7	5.9
DLFPS-236/3540	5.5	6.3	36.7	86.7	5.7	6.3	6.6	5.4	5.2	6.2	5.1	5.8
PARADOX GLR (PPG-PR 331)	5.5	5.7	36.7	93.0	5.2	6.1	6.3	5.3	5.3	6.3	5.6	5.8
PORTFOLIO (PPG-PR 423)	5.8	5.7	43.3	86.7	5.1	6.9	6.7	5.5	5.1	5.6	5.3	5.8
PST-2MAY	5.7	6.3	36.7	89.7	5.0	6.4	6.3	5.0	5.4	6.3	5.6	5.8
SLUGGER 3GL (PPG-PR 343)	5.4	6.3	36.7	76.7	4.9	6.1	6.5	5.5	5.3	6.2	5.5	5.8
SUPERSTAR GL (PPG-PR 420)	5.6	5.3	46.7	93.0	5.8	6.7	6.5	5.3	4.9	5.6	5.3	5.8
FURLONG (LTP-FCB)	5.8	7.3	36.7	86.7	5.0	6.5	6.2	5.2	5.1	5.7	5.3	5.7
GATOR FORE (DLFPS-236/3544)	6.0	6.0	36.7	80.0	5.3	6.3	6.0	5.2	5.1	6.1	5.7	5.7
MIGHTIER (DLFPS-236/3542)	5.4	6.3	40.0	86.7	5.2	6.6	6.5	5.1	4.8	5.8	5.5	5.7
MYSTIQUE (DLFPS-236/3547)	5.6	6.3	40.0	90.0	4.9	6.1	6.3	5.5	5.1	5.7	5.5	5.7
NP-2	5.8	5.3	40.0	86.3	5.0	6.1	6.3	5.5	5.1	5.8	5.5	5.7
PARAGON 2 GLR (FP2)	5.6	6.3	46.7	93.0	5.1	6.3	6.2	5.1	5.1	5.9	5.5	5.7
SPIKE GLS (UF3)	5.8	6.7	43.3	83.3	4.9	6.3	6.3	5.3	5.3	5.9	5.4	5.7
STELLAR 4GL (PPG-PR 424)	5.7	6.3	40.0	86.7	5.4	6.2	6.1	5.2	5.2	5.7	5.5	5.7
SWIFT (PST-2A2)	5.6	7.0	36.7	73.3	5.1	6.3	6.0	5.4	5.1	5.9	5.6	5.7
ALLSTAR FORE (DLFPS-236/3541)	5.9	6.0	36.7	86.7	5.8	6.3	6.0	5.0	4.7	6.1	5.4	5.6
APR2616	5.6	6.0	43.3	90.0	5.4	6.3	6.1	5.5	5.0	5.7	5.2	5.6
BAR LP 6164	5.8	6.0	43.3	90.0	5.3	6.3	6.0	5.1	4.9	5.9	5.1	5.6
DLFPS-236/3553	5.7	6.0	40.0	76.7	4.9	6.3	6.3	5.2	4.8	5.7	5.3	5.6
FIESTA CINCO (DLFPS-236/3554)	5.7	6.3	40.0	86.7	4.4	6.5	6.7	5.3	5.0	5.7	4.9	5.6
GRAY WOLF (PST-2GAL)	5.8	5.7	36.7	86.3	5.4	6.1	5.9	5.3	5.1	5.9	5.6	5.6
HELIOS (DLFPS-236/3538)	5.4	6.7	33.3	83.3	5.2	6.2	6.1	5.1	4.7	5.9	5.3	5.6
INTENSE	5.8	6.0	40.0	86.7	5.1	5.9	6.3	5.1	5.0	6.1	5.5	5.6
PPG-PR 422	5.8	6.0	40.0	86.3	5.6	6.3	6.1	4.9	5.0	5.7	5.5	5.6
RAD-PR 112	6.3	6.7	33.3	86.3	6.3	6.3	6.1	4.7	4.6	5.7	5.6	5.6
SAVANT	4.8	5.7	50.0	89.7	4.6	5.3	6.1	5.6	5.6	6.0	5.3	5.6
021	5.9	6.0	43.3	83.3	5.1	6.0	6.0	5.1	4.8	5.6	5.3	5.5
DLFPS-236/3550	5.4	6.3	40.0	80.0	4.7	6.4	6.1	4.9	4.9	5.5	5.3	5.5
FIREBALL (BWH)	6.4	6.7	36.7	73.3	5.6	6.3	5.9	4.7	4.9	5.5	5.2	5.5
GRAND SLAM GLD	5.3	6.7	43.3	83.3	5.0	6.4	6.3	5.0	4.7	5.7	5.2	5.5
HOMERUN LS (PPG-PR 419)	5.9	6.7	56.7	93.0	5.2	6.2	6.4	4.8	4.7	5.5	5.2	5.5
LPB-SD-102	4.7	5.0	43.3	86.7	3.8	5.4	6.6	5.5	5.2	5.9	5.2	5.5
MRSL-PR16	6.3	5.3	40.0	86.7	5.7	6.3	6.2	4.8	4.5	5.9	5.3	5.5
NEXUS GT (SNX)	5.7	7.0	36.7	76.7	5.2	6.3	6.1	4.7	4.7	5.9	5.5	5.5
PPG-PR 360	5.9	6.0	43.3	90.0	5.1	6.3	6.1	4.9	4.7	5.7	5.3	5.5
ELEKTRA GLR (PPG-PR 371)	5.6	6.7	40.0	89.7	4.9	6.1	6.3	5.3	4.7	5.6	5.2	5.5
PALMER SUPREME (PPG-PR 421)	6.0	6.7	46.7	92.7	4.7	6.5	6.6	4.6	4.8	5.9	5.3	5.5
PST-2FOXY	5.5	5.0	33.3	86.7	5.0	6.3	6.0	4.7	4.9	5.7	5.1	5.5
SLIDER LS (PPG-PR 241)	5.7	5.3	40.0	83.0	4.3	6.0	6.3	5.2	5.0	5.8	5.4	5.5
SR 4700 (DLFPS-236/3543)	5.5	7.0	33.3	86.7	5.3	6.0	6.5	4.7	4.9	5.7	5.2	5.5
TEE-ME-UP (BSP-25)	6.0	6.3	43.3	93.0	5.4	6.2	6.9	4.9	4.6	5.3	5.3	5.5
ALLOY (RRT)	5.5	6.3	40.0	86.7	5.2	6.3	6.1	4.8	4.5	5.4	5.2	5.4
APPLE 3GL (PPG-PR 339)	5.6	5.3	43.3	86.3	5.0	6.2	5.9	4.8	4.8	5.4	5.2	5.4
ASP0116EXT	6.0	5.7	36.7	80.0	5.3	6.7	6.2	4.6	4.4	5.2	5.1	5.4

TABLE 24. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2017-21 DATA

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

NAME	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT SEPTEMBER	PERCENT ESTABLISHMENT OCTOBER	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
ASP0117 (A-PR15)	5.8	6.7	46.7	89.7	4.7	6.1	6.1	5.0	4.9	5.7	5.0	5.4
CS-6	5.5	6.0	40.0	83.0	5.1	5.8	6.1	4.9	4.6	5.9	5.1	5.4
DLFPS-236/3556	5.8	6.3	40.0	86.3	5.0	5.6	5.9	4.9	5.1	5.7	5.3	5.4
FASTBALL 3GL (PPG-PR 329)	6.2	6.3	40.0	86.7	5.2	6.1	6.1	4.9	4.9	5.3	5.1	5.4
GRAY HAWK (PST-2FIND)	5.4	6.7	36.7	79.7	4.7	5.9	5.8	4.9	4.9	5.9	5.2	5.4
GREEN SUPREME+ (AMP-R1)	6.0	6.0	43.3	89.7	5.4	6.3	5.9	4.7	4.4	5.5	5.2	5.4
REVENGE 2GLX (JR-197)	5.5	6.0	50.0	83.3	4.9	6.3	5.7	5.0	4.6	5.7	5.2	5.4
LPB-SD-103	5.3	5.7	36.7	89.7	4.8	5.9	6.0	4.8	5.0	5.4	5.1	5.4
MRSL-PR15	6.1	6.3	46.7	93.0	5.7	6.1	6.1	4.6	4.3	5.4	5.3	5.4
NP-3	5.8	5.7	43.3	92.7	5.2	6.1	5.7	4.7	5.0	5.6	5.3	5.4
OVERDRIVE 5G	5.6	6.3	43.3	90.0	5.2	6.1	6.0	4.7	4.5	5.5	5.2	5.4
PPG-PR 367	5.9	6.7	40.0	86.7	5.7	5.9	5.8	4.7	4.5	5.3	5.4	5.4
PR-5-16	5.7	6.0	43.3	86.7	5.1	6.1	6.4	4.7	4.3	5.7	5.1	5.4
SIGNET	5.3	6.3	40.0	83.0	4.8	5.9	6.1	4.9	4.6	5.8	5.6	5.4
APR2612	5.4	6.3	40.0	76.7	5.1	6.3	5.7	4.7	4.7	5.4	4.7	5.3
APR3060	5.2	6.7	36.7	79.7	4.9	6.4	6.0	4.9	4.7	5.3	4.9	5.3
ASP0218 (A-6D)	5.9	5.7	43.3	90.0	5.6	6.2	6.1	4.5	4.5	5.3	5.0	5.3
CPN	6.0	5.7	46.7	86.3	5.1	5.6	5.9	5.0	4.9	5.3	5.2	5.3
GO-141	5.8	5.7	36.7	83.3	4.9	6.0	5.8	4.8	4.4	5.7	4.9	5.3
IVY (PST-2GTD)	5.9	5.7	33.3	83.3	5.2	5.6	5.5	4.7	4.9	5.5	5.3	5.3
JR-123	5.7	6.7	36.7	83.3	5.2	5.9	5.9	4.8	4.5	5.3	5.0	5.3
MAN O WAR	5.4	5.0	46.7	86.7	4.8	5.5	5.7	5.3	4.7	5.7	5.3	5.3
PPG-PR 372	5.2	6.7	33.3	76.7	4.4	5.9	6.1	4.8	4.5	5.3	5.3	5.3
PPG-PR 385	5.8	5.7	40.0	86.7	5.3	5.9	5.8	4.7	4.4	5.6	5.2	5.3
PR-6-15	5.5	8.3	36.7	70.0	4.4	6.1	5.9	4.8	4.6	5.3	5.3	5.3
SEABISCUIT	5.8	5.3	46.7	89.7	5.3	5.5	5.5	4.8	4.9	5.9	5.1	5.3
SUNBURST (02BS2)	5.8	6.7	40.0	83.3	5.4	5.9	6.0	4.6	4.5	5.3	5.2	5.3
UMPQUA	5.5	5.3	43.3	92.7	5.3	5.8	5.8	4.9	4.8	5.3	5.1	5.3
ZOOM 2 (DLFPS-236/3545)	5.3	6.3	36.7	83.3	5.2	5.9	5.8	4.9	4.5	5.6	5.3	5.3
CATALYST (023)	5.5	4.7	56.7	93.0	4.6	5.7	6.1	4.8	4.6	5.3	5.1	5.2
GATOR CINCO (DLFPS-236/3548)	5.6	6.3	33.3	69.7	4.8	5.7	5.6	5.1	5.2	5.6	5.5	5.2
KARMA	5.3	6.3	36.7	83.3	4.9	6.1	5.9	4.5	4.3	5.3	4.8	5.2
MENSA	5.1	6.0	43.3	93.0	3.9	5.2	6.2	5.1	4.9	5.6	5.1	5.2
PEPPER II (RAD-PR 103)	5.7	7.0	23.3	73.3	5.3	6.2	5.9	4.7	4.1	5.1	5.1	5.2
PHARAOH	5.8	5.7	40.0	83.0	5.3	5.5	5.8	4.5	4.5	5.4	5.3	5.2
PST-2PDA	5.5	5.7	40.0	90.0	5.4	5.6	5.2	4.5	4.7	5.6	5.3	5.2
SAGUARO	5.3	6.0	36.7	86.7	5.2	5.5	5.7	5.0	4.5	5.6	5.0	5.2
SR 4650	5.8	6.0	50.0	90.0	5.0	6.3	5.9	4.7	4.3	5.2	4.9	5.2
STARBRIGHT GLX (PST-2BDT)	5.7	6.7	36.7	80.0	5.0	5.9	5.3	4.7	4.3	5.5	5.3	5.2
ALLSTAR III	5.6	5.7	40.0	80.0	5.2	5.9	5.7	4.1	4.4	5.3	5.3	5.1
BRIGHTSTAR SLT	5.8	5.3	40.0	90.0	5.4	5.7	5.1	4.3	4.4	5.7	5.0	5.1
DLFPS-236/3546	5.6	6.3	36.7	73.3	4.6	5.5	5.7	4.5	4.3	5.3	5.2	5.1
PL2	5.8	5.7	40.0	89.7	5.2	5.9	5.0	4.4	4.4	5.5	4.9	5.1
PST-2EGAD	5.7	6.0	36.7	83.3	5.1	5.4	5.2	4.6	4.4	5.3	5.3	5.1
02BS1	5.9	7.0	30.0	76.3	5.2	5.5	5.4	4.1	4.4	4.9	4.9	5.0
ASP0118GL (A-4G)	5.8	5.7	46.7	85.0	5.3	6.0	5.9	4.1	3.9	5.0	4.9	5.0
BAR LP 6117	5.5	5.7	36.7	86.7	5.2	5.8	5.6	4.3	4.1	5.2	4.8	5.0

TABLE 24. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER DROUGHT STRESS AT LOGAN, UT 1/
2017-21 DATA

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

NAME	SPRING GREENUP	PINK SNOW MOLD	PERCENT ESTABLISHMENT SEPTEMBER	PERCENT ESTABLISHMENT OCTOBER	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DERBY XTREME	5.6	6.7	33.3	83.3	4.9	5.9	5.6	4.3	4.3	5.1	4.8	5.0
DLFPS-236/3552	5.6	7.3	33.3	66.7	4.6	5.8	5.5	4.6	4.6	5.3	4.9	5.0
JR-747	4.4	4.7	43.3	90.0	3.6	4.9	5.9	5.0	4.6	5.3	4.8	5.0
JR-888	5.1	5.7	33.3	76.7	3.9	5.2	5.9	4.7	4.6	5.3	5.2	5.0
LPB-SD-101	4.6	5.7	36.7	86.3	3.9	4.9	5.7	4.8	4.5	5.5	5.1	5.0
LPB-SD-104	4.5	5.7	43.3	86.7	3.2	4.5	5.9	5.4	5.0	5.1	4.7	5.0
LPB-SD-105	4.3	7.0	30.0	66.7	3.0	4.3	5.9	5.1	5.2	5.5	5.1	5.0
SHIELD (02BS4)	5.8	5.0	43.3	93.0	5.2	5.2	5.5	4.7	4.1	5.2	5.3	5.0
XCELERATOR	5.4	7.0	30.0	63.3	4.4	5.1	5.3	4.9	4.7	5.2	5.0	5.0
BAR LP 6131	5.4	5.3	40.0	83.3	4.9	5.3	5.3	4.5	4.2	4.9	4.8	4.9
BAR LP 6158	5.7	5.7	43.3	89.7	5.8	5.3	5.4	4.3	3.9	4.9	4.7	4.9
BELIZE 2 (GO-142)	5.7	6.0	43.3	96.0	5.0	6.1	5.5	4.1	3.8	5.1	4.7	4.9
BAR LP 6159	5.1	6.3	43.3	83.0	5.6	5.7	5.1	4.1	4.3	4.7	4.4	4.8
BAR LP 6162	5.2	6.3	26.7	76.3	5.1	5.3	5.2	4.3	3.9	4.9	4.7	4.8
BAR LP 6233	5.6	5.7	46.7	86.3	4.9	5.2	5.2	4.6	4.1	4.9	4.7	4.8
DLFPS-238/3014	5.5	6.3	33.3	70.0	4.8	4.9	5.1	4.7	4.4	5.1	4.7	4.8
EVOLVE	5.7	6.0	43.3	76.3	5.2	5.3	4.7	3.9	3.8	5.1	4.8	4.7
CAYMAN (GO-143)	5.0	7.0	30.0	66.7	5.3	5.5	4.7	3.9	3.8	4.3	4.1	4.1
BAR LP 6165	4.3	6.3	30.0	69.7	3.8	4.1	4.0	3.5	3.7	4.4	4.3	4.0
LINN	4.3	5.0	33.3	90.0	3.8	2.3	2.8	3.3	2.8	3.8	3.9	3.2
LSD VALUE	4.6	1.9	26.8	42.4	1.0	0.6	0.6	1.4	1.1	2.4	4.2	0.6
C.V. (%)	27.0	13.5	21.2	13.3	19.7	15.1	15.7	26.1	25.2	25.9	26.8	14.4

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 25. PERCENT RECOVERY RATINGS FROM DIVOTS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT LEXINGTON, KY 2/
2017 DATA

NAME	MAY 3	MAY 24	JUNE 14	JUNE 29	JULY 19	AUGUST 2	AUGUST 15	AUGUST 31	SEPT. 20	OCTOBER 15	OCTOBER 31	MEAN
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	93.7
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	93.6
MYSTIQUE (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	93.4
ZOOM 2 (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	93.3
XCELERATOR	83.3	90.0	93.0	94.0	96.0	97.7	96.3	95.7	95.0	92.7	92.3	93.3
STELLAR 4GL (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	93.0
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	92.8
SUPERSTAR GL (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	92.7
HOMERUN LS (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	92.6
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	92.5
PARAGON 2 GLR (FP2)	81.7	89.7	94.3	95.3	97.0	97.0	97.0	95.7	93.7	89.3	85.3	92.4
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	92.4
SWIFT (PST-2A2)	84.7	92.0	94.0	94.3	96.3	96.0	95.0	93.7	91.7	89.7	89.3	92.4
SR 4700 (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	92.3
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	92.0
SR 4650	85.0	90.3	94.0	94.0	94.7	96.3	95.3	94.7	92.0	89.7	85.7	92.0
SUNBURST (02BS2)	82.0	90.7	94.0	95.0	95.7	97.0	96.0	93.0	92.7	88.0	87.0	91.9
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	91.8
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	91.8
APR2612	83.0	88.0	93.3	94.7	95.3	95.7	94.7	94.7	94.0	90.0	85.7	91.7
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	91.6
PARADOX GLR (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	91.6
ELEKTRA GLR (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	91.6
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	91.5
FIESTA CINCO (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	91.5
FASTBALL 3GL (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	91.5
SEABISCUIT	83.3	88.0	91.3	91.3	93.3	96.3	94.3	94.7	93.7	89.3	90.0	91.4
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	91.3
SHIELD (02BS4)	83.7	91.3	93.0	95.3	96.0	96.7	92.3	90.7	88.7	87.0	89.0	91.2
PALMER SUPREME (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	91.2
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	91.0
JR-123	87.3	90.7	93.3	94.0	94.3	95.3	92.3	91.3	90.0	86.0	86.0	91.0
UMPQUA	82.0	88.3	92.3	94.0	95.7	97.7	94.7	94.0	90.3	88.3	83.7	91.0
CATALYST (023)	81.7	88.7	92.7	93.7	95.7	97.0	92.3	91.7	90.3	89.7	86.7	90.9
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	90.9
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	90.9
ALLSTAR FORE (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	90.8
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	90.6
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	90.5
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	90.1
PL2	83.7	88.7	91.7	92.3	92.3	93.7	92.0	91.3	91.7	86.0	87.7	90.1
SLIDER LS (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	90.1
STARBRIGHT GLX (PST-2BDT)	80.0	88.3	91.0	93.0	95.3	96.3	95.0	94.0	90.3	84.7	82.3	90.0
HELIOS (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	89.9
GATOR CINCO (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	89.9
CPN	83.7	89.7	93.3	94.3	95.3	95.0	92.3	90.0	87.3	85.7	80.0	89.7
PST-2FOXY	80.3	85.7	91.0	92.0	94.0	96.0	93.7	91.7	90.7	86.7	82.3	89.5
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	89.4

TABLE 25. PERCENT RECOVERY RATINGS FROM DIVOTS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) AT LEXINGTON, KY 2/
2017 DATA

NAME	MAY 3	MAY 24	JUNE 14	JUNE 29	JULY 19	AUGUST 2	AUGUST 15	AUGUST 31	SEPT. 20	OCTOBER 15	OCTOBER 31	MEAN
REVENGE 2GLX (JR-197)	82.7	89.0	92.0	94.0	94.7	94.0	90.0	88.7	87.7	84.0	84.7	89.2
APPLE 3GL (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	89.2
SIGNET	83.7	90.3	93.3	95.0	95.3	93.3	90.0	88.7	84.7	84.0	83.3	89.2
02BS1	81.3	88.0	91.7	94.0	95.0	94.3	93.0	89.0	88.7	83.0	82.3	89.1
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	89.1
OVERDRIVE 5G	81.7	89.0	92.0	93.3	96.3	95.0	90.7	89.3	89.0	83.3	80.7	89.1
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	88.8
GREEN SUPREME+ (AMP-R1)	81.7	87.7	92.7	93.3	94.3	93.7	91.3	90.7	89.0	81.3	79.7	88.7
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	88.7
NP-3	85.0	88.3	92.0	93.7	94.3	95.3	90.3	88.7	86.3	82.0	79.7	88.7
MIGHTIER (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	88.6
DERBY XTREME	84.0	89.7	92.7	94.3	93.7	93.7	90.7	88.3	85.7	78.3	81.3	88.4
PHARAOH	82.3	89.0	91.3	92.7	93.0	95.7	93.7	90.3	85.3	81.3	78.0	88.4
APR3060	79.7	86.7	91.3	92.7	94.3	95.0	91.7	91.3	88.7	80.7	79.7	88.3
SLUGGER 3GL (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	88.3
CS-6	80.3	88.7	92.3	92.0	92.0	90.3	89.3	89.3	89.0	82.7	83.7	88.2
MENSA	83.3	89.3	93.0	93.7	96.0	96.3	94.3	89.7	80.7	80.0	74.3	88.2
ASP0116EXT	81.3	87.7	91.7	92.7	92.7	93.7	92.0	90.0	86.0	79.3	81.7	88.1
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	88.1
021	83.0	85.0	86.3	89.3	92.7	94.7	93.7	91.3	87.3	83.3	81.7	88.0
GATOR FORE (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	88.0
INTENSE	81.7	87.7	90.7	92.7	94.3	93.7	92.0	88.0	85.0	81.3	81.3	88.0
NP-2	85.3	91.0	93.3	94.0	94.3	93.3	88.0	87.3	82.7	81.0	78.0	88.0
ALLOY (RRT)	79.3	89.3	92.0	92.7	93.7	93.7	89.7	88.3	86.3	81.0	81.7	88.0
KARMA	83.3	87.0	89.3	91.3	92.0	93.0	91.0	88.3	88.0	84.7	79.0	87.9
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	87.8
APR2616	80.3	86.0	91.3	92.7	93.3	95.0	90.0	90.0	87.3	80.0	78.7	87.7
IVY (PST-2GTD)	78.7	88.0	92.3	93.7	94.0	94.0	92.3	88.7	86.7	77.7	76.0	87.5
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	87.4
PST-2MAY	83.7	90.7	93.0	93.0	93.7	93.0	88.7	87.0	82.7	75.0	79.0	87.2
CAYMAN (GO-143)	81.0	88.3	91.3	93.0	92.7	91.0	89.0	88.7	84.3	80.0	78.7	87.1
SPIKE GLS (UF3)	82.7	86.7	90.0	92.3	93.7	81.3	93.3	90.3	88.7	80.3	78.7	87.1
PST-2EGAD	78.7	83.7	88.3	90.7	92.3	93.7	92.3	89.7	87.0	82.3	78.7	87.0
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	86.9
PST-2PDA	79.7	86.0	89.7	91.7	92.3	92.3	89.3	88.7	87.3	81.7	77.0	86.9
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	86.7
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	86.5
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	86.0
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	85.9
PORTFOLIO (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	85.8
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	85.4
MRSL-PR16	82.3	85.3	86.3	87.7	88.7	90.0	88.0	87.0	85.7	78.7	80.0	85.4
ALLSTAR III	82.7	90.0	93.3	93.3	94.0	93.7	88.7	85.0	77.7	69.7	67.3	85.0
BELIZE 2 (GO-142)	76.3	85.0	88.3	89.3	91.0	90.3	88.3	85.0	83.3	79.7	78.7	85.0
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	84.9
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	84.8
NEXUS GT (SNX)	80.0	86.0	89.0	90.3	92.0	90.7	87.3	83.3	82.7	74.0	73.3	84.4
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	83.8

TABLE 25. (CONT'D)

PERCENT RECOVERY RATINGS FROM DIVOTS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT LEXINGTON, KY 2/
2017 DATA

NAME	MAY 3	MAY 24	JUNE 14	JUNE 29	JULY 19	AUGUST 2	AUGUST 15	AUGUST 31	SEPT. 20	OCTOBER 15	OCTOBER 31	MEAN
SAVANT	88.7	93.7	94.7	96.7	96.7	93.7	87.7	77.0	68.7	61.3	63.0	83.8
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	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	83.5
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	83.5
MRSL-PR15	74.7	83.3	87.3	89.0	91.7	92.3	86.7	83.0	80.3	76.0	74.3	83.5
GO-141	81.0	88.0	93.0	93.3	91.3	88.0	82.3	80.7	76.0	73.3	67.0	83.1
JR-888	82.7	90.3	92.7	94.0	94.3	91.0	86.3	79.7	71.0	66.3	63.7	82.9
EVOLVE	81.0	83.0	87.3	89.3	89.0	90.7	88.3	83.0	79.0	70.3	68.7	82.7
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	82.6
SAGUARO	87.0	91.0	94.7	95.7	94.3	90.7	85.7	77.7	65.7	57.3	61.0	81.9
TEE-ME-UP (BSP-25)	82.3	87.0	90.3	91.7	90.7	89.0	82.3	80.3	71.3	65.3	69.7	81.8
HATRICK (BSP-17)	81.3	82.7	84.0	86.3	86.7	88.0	86.3	81.0	76.0	69.0	75.3	81.5
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	79.9
BRIGHTSTAR SLT	79.0	85.7	90.3	90.3	88.7	89.0	83.3	67.3	59.7	51.7	59.0	76.7
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	76.2
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	74.5
FIREBALL (BWH)	77.3	81.0	81.3	84.3	85.3	84.0	77.3	72.3	62.0	52.3	57.0	74.0
LINN	73.0	78.7	89.0	91.3	78.7	61.0	53.0	36.3	42.0	31.3	42.0	61.5
LSD VALUE	5.7	8.2	10.5	11.6	5.6	7.1	8.7	10.3	12.7	14.2	15.1	6.6
C.V. (%)	3.6	4.1	4.0	3.8	3.3	4.5	5.7	7.2	9.2	10.8	11.2	4.6

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 25. PERCENT RECOVERY RATINGS FROM DIVOTS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN AT LEXINGTON, KY 1/
2020 DATA 2/

NAME	MARCH 20	APRIL 22	MAY 6	MAY 20	JUNE 2	JUNE 17	JUNE 30	JULY 15	AUGUST 4	AUGUST 19	MEAN
DLFPS-236/3556	95.0	89.3	93.3	95.7	90.0	89.3	96.0	94.0	96.0	93.3	93.2
DLFPS-236/3546	93.0	89.0	92.3	94.3	91.0	89.0	95.3	96.0	91.7	90.3	92.2
PST-2FOXY	94.3	86.7	93.3	96.3	91.3	88.0	93.7	92.7	93.3	92.3	92.2
SUPERSTAR GL (PPG-PR 420)	93.3	88.3	93.7	94.7	90.3	88.3	92.7	93.3	93.3	91.7	92.0
ALLSTAR FORE (DLFPS-236/3541)	92.7	89.3	93.3	95.0	89.3	89.3	92.0	93.0	92.0	92.7	91.9
MYSTIQUE (DLFPS-236/3547)	92.3	90.7	92.3	95.3	89.3	87.3	93.3	93.0	92.7	92.3	91.9
PARADOX GLR (PPG-PR 331)	90.7	91.3	91.7	96.7	91.7	87.7	94.7	92.3	91.3	90.0	91.8
CATALYST (023)	93.7	90.3	91.3	95.7	89.7	86.7	91.7	91.7	90.0	95.3	91.6
021	90.3	88.7	89.0	94.0	89.3	89.3	93.7	92.3	95.0	93.7	91.5
GATOR FORE (DLFPS-236/3544)	95.0	89.7	93.7	96.3	89.7	84.7	92.0	94.0	90.0	89.7	91.5
FASTBALL 3GL (PPG-PR 329)	92.7	88.3	90.0	96.0	89.3	90.0	94.7	93.7	91.0	89.3	91.5
GRAY WOLF (PST-2GAL)	93.7	85.0	91.7	95.7	89.7	89.7	95.7	93.3	90.7	90.0	91.5
PALMER SUPREME (PPG-PR 421)	94.0	88.0	91.0	95.0	88.0	88.0	94.7	96.0	91.0	89.7	91.5
ZOOM 2 (DLFPS-236/3545)	92.7	91.0	94.0	94.3	89.0	86.7	91.7	90.3	92.3	92.0	91.4
SLIDER LS (PPG-PR 241)	94.0	87.0	92.0	97.0	86.7	87.7	95.0	92.3	90.0	92.0	91.4
SR 4650	94.3	90.7	93.0	96.7	91.7	89.3	90.3	88.0	90.7	89.3	91.4
DERBY XTREME	93.3	89.7	92.0	95.0	88.0	85.3	92.7	91.7	93.0	92.7	91.3
ASP0117 (A-PR15)	91.7	88.0	90.7	96.3	90.3	88.0	93.0	91.3	90.0	92.3	91.2
BAR LP 6233	92.0	88.3	91.3	95.0	88.0	85.3	93.3	91.7	92.3	94.7	91.2
FIESTA CINCO (DLFPS-236/3554)	93.3	87.3	91.0	94.7	87.7	90.7	92.7	93.0	90.3	91.7	91.2
STELLAR 4GL (PPG-PR 424)	94.0	90.7	91.3	94.0	88.7	86.3	93.0	91.3	91.7	91.0	91.2
JR-888	91.7	87.3	92.7	95.7	90.7	88.3	93.0	89.3	88.7	94.0	91.1
BAR LP 6165	94.7	88.3	92.0	94.7	91.7	90.7	90.7	85.7	86.0	94.3	90.9
MIGHTIER (DLFPS-236/3542)	93.7	88.0	91.3	94.0	86.7	85.3	91.0	92.7	93.0	93.3	90.9
DLFPS-236/3550	94.0	88.7	92.0	96.7	87.0	87.0	94.7	92.7	86.0	90.0	90.9
DLFPS-236/3553	94.0	87.7	93.0	96.7	91.0	89.0	91.7	92.0	85.0	88.7	90.9
HOMERUN LS (PPG-PR 419)	93.0	88.0	91.3	97.7	87.7	88.7	93.7	93.3	87.0	88.3	90.9
DLFPS-236/3552	93.0	91.3	93.7	97.0	87.3	85.7	91.3	89.3	90.3	89.0	90.8
PR-5-16	92.7	87.0	91.7	94.7	86.3	87.7	94.0	92.7	91.0	90.3	90.8
SR 4700 (DLFPS-236/3543)	92.3	90.0	91.7	96.3	87.0	86.0	93.0	91.0	90.7	88.7	90.7
BAR LP 6164	92.7	86.7	90.7	94.0	88.3	87.3	92.0	92.7	89.0	92.7	90.6
REVENGE 2GLX (JR-197)	92.3	87.3	90.7	95.0	86.0	85.7	93.7	92.7	91.0	91.7	90.6
ALLOY (RRT)	92.3	88.3	93.0	95.7	89.0	86.0	91.3	89.3	89.0	90.7	90.5
NP-3	93.0	90.0	92.3	92.3	89.0	89.3	95.0	92.3	84.3	87.3	90.5
SHIELD (02BS4)	93.3	90.7	93.7	96.0	86.7	85.0	93.0	91.3	88.0	87.7	90.5
APR2616	93.3	88.0	90.7	92.3	86.0	86.3	92.7	92.3	92.3	88.7	90.3
ASP0118GL (A-4G)	92.7	87.0	88.3	95.3	85.7	83.0	91.7	93.7	92.7	93.3	90.3
DLFPS-236/3540	92.7	87.7	91.3	95.0	84.0	84.3	93.3	93.3	91.7	90.0	90.3
JR-123	92.0	87.0	92.3	95.0	86.0	84.7	90.7	90.3	91.0	94.0	90.3
PARAGON 2 GLR (FP2)	93.0	86.0	90.7	93.3	88.7	89.3	94.7	93.3	87.3	86.7	90.3
PPG-PR 422	91.3	90.7	90.7	94.7	86.7	85.7	90.7	89.3	90.3	93.0	90.3
TEE-ME-UP (BSP-25)	91.7	87.3	90.3	94.0	88.3	86.7	92.3	90.3	91.3	91.0	90.3
02BS1	92.7	87.7	91.3	96.0	88.0	85.7	95.3	92.7	86.7	86.3	90.2
SUNBURST (02BS2)	93.7	88.7	89.7	92.3	88.3	86.7	92.7	93.7	90.3	85.7	90.2
PR-6-15	94.0	90.7	91.3	97.7	86.3	80.7	91.7	92.3	90.0	87.7	90.2
XCELERATOR	94.0	89.0	91.3	95.0	88.7	84.7	93.0	92.3	90.0	84.0	90.2
EVOLVE	92.7	87.3	90.3	93.0	87.3	88.3	92.7	90.3	90.0	88.7	90.1
PPG-PR 372	93.3	89.0	93.3	94.0	90.3	84.7	92.0	87.7	87.7	89.3	90.1

TABLE 25. PERCENT RECOVERY RATINGS FROM DIVOTS OF PERENNIAL RYEGRASS CULTIVARSS
(CONT'D) GROWN AT LEXINGTON, KY 1/
2020 DATA 2/

NAME	MARCH 20	APRIL 22	MAY 6	MAY 20	JUNE 2	JUNE 17	JUNE 30	JULY 15	AUGUST 4	AUGUST 19	MEAN
NP-2	92.7	89.7	91.0	93.7	89.3	85.0	92.7	88.7	90.3	87.0	90.0
STARBRIGHT GLX (PST-2BDT)	93.7	85.3	91.0	95.7	87.7	87.0	92.0	90.3	88.3	88.7	90.0
IVY (PST-2GTD)	94.3	88.3	92.0	93.7	90.0	88.0	92.0	83.0	89.3	88.0	89.9
SILVER SPORT (PST-2CRP)	92.0	87.3	89.7	92.7	85.3	85.0	91.3	91.0	92.3	92.0	89.9
PL2	92.3	87.3	90.3	96.3	85.3	83.0	90.7	88.0	92.7	92.0	89.8
SEABISCUIT	92.7	85.3	90.0	93.7	89.3	85.7	93.7	89.7	92.0	86.3	89.8
UMPQUA	92.0	87.7	92.3	95.3	86.7	86.0	93.7	91.0	84.7	88.3	89.8
APR3060	93.7	87.3	92.3	94.7	85.3	84.3	90.7	91.3	89.7	87.7	89.7
HELIOS (DLFPS-236/3538)	92.0	87.3	91.0	95.0	85.7	85.0	90.3	90.0	90.7	89.7	89.7
GRAY HAWK (PST-2FIND)	93.3	91.3	95.3	96.3	89.3	83.7	89.3	88.3	88.0	82.0	89.7
RAD-PR 112	94.3	86.3	90.0	95.7	89.0	85.0	91.0	89.0	85.3	90.7	89.6
APR2612	93.0	87.0	89.7	94.7	84.3	86.0	93.0	91.7	87.3	88.7	89.5
OVERDRIVE 5G	92.0	86.0	87.3	94.7	85.0	84.7	95.3	93.3	88.0	89.0	89.5
PPG-PR 360	92.0	86.7	88.7	94.7	85.3	87.3	91.3	90.7	89.3	89.0	89.5
ASP0218 (A-6D)	93.7	90.3	91.0	93.7	83.3	85.0	90.0	91.7	85.3	89.7	89.4
BAR LP 6159	91.0	87.7	89.3	92.3	88.0	87.0	90.0	90.0	85.7	93.0	89.4
SAGUARO	92.0	89.3	92.3	94.3	87.3	85.3	89.3	84.3	89.0	91.0	89.4
SAVANT	92.7	87.3	91.7	95.7	87.3	86.0	88.7	87.0	85.3	92.3	89.4
LPB-SD-103	91.3	86.7	91.3	92.3	90.7	86.7	89.7	87.0	83.7	93.3	89.3
SWIFT (PST-2A2)	93.7	87.3	90.3	94.0	87.0	87.7	90.7	87.0	85.3	89.7	89.3
SLUGGER 3GL (PPG-PR 343)	91.7	89.7	92.3	92.3	88.7	84.0	89.3	91.3	86.0	87.3	89.3
SPIKE GLS (UF3)	92.3	86.3	89.0	94.7	87.3	86.0	93.7	88.7	86.3	88.3	89.3
CS-6	90.7	87.7	91.3	95.0	85.7	85.0	91.3	90.7	85.7	89.3	89.2
LPB-SD-105	91.3	86.7	91.3	93.3	90.7	85.7	87.7	87.3	85.0	93.3	89.2
MRSL-PR16	92.3	87.0	89.0	96.0	85.0	83.3	90.3	85.7	91.3	92.3	89.2
PPG-PR 367	93.0	86.0	90.3	95.3	89.3	83.0	94.0	90.3	85.0	85.7	89.2
PPG-PR 370	95.0	88.0	91.0	97.3	88.3	86.3	89.3	87.0	86.7	83.0	89.2
BAR LP 6117	93.0	88.0	91.0	94.7	87.0	86.3	90.0	90.3	82.0	88.3	89.1
CPN	90.3	87.3	89.3	91.7	88.0	87.7	90.0	88.7	88.7	89.7	89.1
FURLONG (LTP-FCB)	94.7	91.0	93.7	94.7	86.0	86.0	92.0	91.3	79.3	81.7	89.0
INTENSE	93.7	87.7	93.0	94.7	86.0	82.3	89.7	87.7	87.3	87.7	89.0
ALLSTAR III	93.7	86.3	90.7	95.7	88.7	87.3	91.7	87.3	85.3	82.0	88.9
CAYMAN (GO-143)	93.0	86.7	90.3	95.3	89.0	89.3	91.3	88.0	83.0	83.3	88.9
GATOR CINCO (DLFPS-236/3548)	92.7	86.7	90.0	93.0	88.3	83.7	91.0	90.0	85.3	88.3	88.9
APPLE 3GL (PPG-PR 339)	91.7	86.3	89.7	93.3	84.3	83.3	92.0	90.7	87.0	89.7	88.8
SIGNET	91.0	89.0	92.0	96.0	87.7	87.7	88.7	85.7	81.7	88.0	88.7
BAR LP 6158	92.7	87.0	91.3	94.3	84.7	83.7	91.7	90.3	81.0	88.7	88.5
PST-2MAY	92.3	86.3	90.3	94.7	87.0	84.3	91.0	88.0	85.0	85.7	88.5
ASP0116EXT	92.3	86.7	91.7	96.3	85.7	84.3	85.0	85.7	85.7	89.7	88.3
LPB-SD-101	89.0	84.7	89.3	94.3	86.0	82.7	90.0	89.3	84.3	92.0	88.2
PST-2EGAD	92.3	82.0	87.0	91.0	84.0	84.3	90.3	93.7	89.3	88.0	88.2
PHARAOH	90.3	83.0	88.3	95.3	86.3	85.0	90.3	86.3	87.0	88.7	88.1
JR-747	90.7	88.3	93.3	95.0	91.7	88.0	90.7	85.7	69.7	86.7	88.0
MAN O WAR	90.7	84.3	88.0	93.0	88.7	81.7	89.0	90.3	85.7	88.3	88.0
GO-141	93.7	88.0	90.3	94.3	87.7	84.0	89.7	81.3	83.0	87.3	87.9
MRSL-PR15	91.7	85.3	88.0	95.3	85.7	84.7	89.3	84.0	86.7	88.3	87.9
NEXUS GT (SNX)	93.3	87.3	90.7	94.0	85.3	81.7	92.3	88.3	82.7	83.3	87.9
BAR LP 6131	90.3	88.0	91.3	97.3	87.0	85.0	90.0	81.7	78.3	88.3	87.7

TABLE 25. (CONT'D)

PERCENT RECOVERY RATINGS FROM DIVOTS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT LEXINGTON, KY 1/
2020 DATA 2/

NAME	MARCH 20	APRIL 22	MAY 6	MAY 20	JUNE 2	JUNE 17	JUNE 30	JULY 15	AUGUST 4	AUGUST 19	MEAN
BELIZE 2 (GO-142)	90.0	86.3	88.3	93.3	87.7	83.7	89.0	86.0	83.3	89.0	87.7
FIREBALL (BWH)	94.0	88.3	91.0	94.3	81.7	77.7	84.7	87.7	87.3	89.7	87.6
GREEN SUPREME+ (AMP-R1)	92.7	87.0	91.3	93.0	83.7	83.0	89.3	83.7	83.3	88.3	87.5
LPB-SD-104	90.0	85.3	89.3	92.7	85.0	80.0	88.0	86.7	85.3	93.0	87.5
PPG-PR 385	91.3	87.0	88.7	92.3	84.3	81.0	88.3	83.7	89.0	89.7	87.5
PST-2PDA	89.0	83.3	87.7	94.3	84.3	84.7	91.7	85.7	84.3	90.0	87.5
DLFPS-238/3014	93.0	84.3	90.7	94.3	85.7	83.3	89.3	85.7	79.3	88.3	87.4
PEPPER II (RAD-PR 103)	91.7	83.7	88.0	92.7	83.0	84.3	89.0	90.7	83.3	87.3	87.4
ELEKTRA GLR (PPG-PR 371)	93.7	87.0	90.7	92.3	85.0	85.3	91.0	84.3	81.3	83.7	87.4
PORTFOLIO (PPG-PR 423)	88.7	85.3	88.3	92.3	83.3	79.0	86.7	88.0	90.3	92.0	87.4
KARMA	91.0	89.3	90.0	94.0	84.0	84.7	89.0	85.3	79.7	86.0	87.3
BRIGHTSTAR SLT	91.3	83.3	87.0	95.7	85.3	80.7	89.0	87.0	84.7	87.3	87.1
BAR LP 6162	90.0	84.7	86.0	92.7	83.0	78.7	86.0	87.3	88.7	92.3	86.9
MENSA	90.7	81.7	89.7	92.0	85.7	79.7	90.0	84.3	81.7	90.0	86.5
HATRICK (BSP-17)	89.0	84.3	86.0	93.7	82.3	80.0	88.3	84.3	85.3	87.3	86.1
GRAND SLAM GLD	87.7	85.7	88.0	91.7	78.3	79.3	88.7	87.7	78.3	85.7	85.1
LPB-SD-102	89.7	84.0	87.3	93.0	91.7	80.7	85.0	70.3	77.3	90.7	85.0
LINN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD VALUE	4.1	4.2	4.6	3.9	5.7	6.4	5.4	8.4	8.7	6.8	3.2
C.V. (%)	3.1	3.4	3.5	2.9	4.5	5.1	4.1	6.3	6.6	5.2	2.5

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 26. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR SALT TOLERANCE STUDY IN 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 THEN 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
GATOR CINCO (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
BELIZE 2 (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
MIGHTIER (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
MYSTIQUE (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
ELEKTRA GLR (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
CAYMAN (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
CATALYST (023)	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
PARADOX GLR (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
02BS1	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
HELIOS (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
APPLE 3GL (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
PORTFOLIO (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
GREEN SUPREME+ (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
GATOR FORE (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
REVENGE 2GLX (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
SLUGGER 3GL (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
HOMERUN LS (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
ALLOY (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
SLIDER LS (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 26.
CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2017 DATA

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

	QUALITY RATINGS OF THE SALT TREATMENT 3/					QUALITY RATINGS OF THEN CONTROL					PERCENT OF QUALITY (TREATMENT OVER CONTROL)				
NAME	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
SR 4700 (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
FIESTA CINCO (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
SUPERSTAR GL (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
SWIFT (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
FASTBALL 3GL (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
ZOOM 2 (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
FIREBALL (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
SPIKE GLS (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
021	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
SUNBURST (02BS2)	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
PARAGON 2 GLR (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
STELLAR 4GL (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
IVY (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
ALLSTAR FORE (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 26. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR SALT TOLERANCE STUDY IN 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/ 8_DS	12_DS	16_DS	20_DS	24_DS	QUALITY RATINGS OF THEN CONTROL 8_DS	12_DS	16_DS	20_DS	24_DS	PERCENT OF QUALITY (TREATMENT OVER CONTROL) 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
STARBRIGHT GLX (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
PALMER SUPREME (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
ASP0117(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
NEXUS GT (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
HATRICK (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
ASP0116EXT	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
ASP0218 (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 (02BS4)	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.

TABLE 26. (CONT'D)

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

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

NAME	QUALITY RATINGS OF THE SALT TREATMENT 12_DS	16_DS	20_DS	24_DS	QUALITY RATINGS OF THE CONTROL 12_DS	16_DS	20_DS	24_DS	PERCENT OF QUALITY (TREATMENT OVER CONTROL) 12_DS	16_DS	20_DS	24_DS
021	8.6	7.3	6.6	6.7	8.2	7.8	8.2	8.4	104.6	93.9	81.1	79.4
HATRICK (BSP-17)	8.5	7.2	6.6	6.5	8.1	7.8	8.2	8.3	105.1	93.1	81.1	78.2
TEE-ME-UP (BSP-25)	8.6	7.1	6.6	6.3	8.1	7.7	8.2	8.3	106.4	92.1	80.7	76.1
FIREBALL (BWH)	8.6	7.2	6.3	6.3	8.2	7.8	8.2	8.3	105.9	92.1	77.8	76.1
ALLSTAR FORE (DLFPS-236/3541)	8.3	6.9	6.4	6.3	8.0	7.7	8.2	8.3	104.0	90.1	78.6	75.9
LPB-SD-101	8.7	7.2	6.6	6.3	8.2	7.8	8.2	8.3	106.3	92.7	80.7	76.1
SIGNET	8.2	7.0	6.7	6.3	8.1	7.8	8.2	8.3	102.2	91.4	82.6	76.1
EVOLVE	8.3	6.7	6.4	6.2	8.0	7.6	8.2	8.3	104.3	88.4	78.7	73.9
INTENSE	8.5	7.1	6.5	6.2	8.2	7.7	8.2	8.3	104.6	91.2	79.5	73.9
LPB-SD-103	8.6	7.2	6.4	6.2	8.1	7.8	8.2	8.3	106.4	92.2	78.6	74.0
LPB-SD-104	8.5	7.1	6.3	6.2	8.2	7.7	8.2	8.3	104.5	92.4	77.8	73.9
MENSA	8.4	7.2	6.7	6.2	8.2	7.8	8.2	8.3	102.9	92.7	82.7	73.9
MRSL-PR15	8.3	6.9	6.3	6.2	8.1	7.6	8.2	8.3	102.1	92.0	77.8	74.0
PL2	8.3	6.9	6.4	6.2	8.1	7.7	8.2	8.3	102.1	90.9	78.7	73.9
SR 4650	8.1	6.7	6.0	6.2	8.1	7.9	8.2	8.3	100.1	85.7	73.6	74.0
BAR LP 6117	8.3	6.4	5.9	6.0	7.9	7.8	8.2	8.3	105.5	82.8	72.8	71.8
BAR LP 6165	7.9	6.5	6.1	6.0	7.8	7.4	8.1	8.2	101.4	88.8	75.9	74.0
DLFPS-236/3540	8.4	7.3	6.5	6.0	8.3	7.8	8.2	8.3	101.6	93.3	79.5	72.0
MIGHTIER (DLFPS-236/3542)	8.4	7.3	6.3	6.0	8.3	7.7	8.2	8.3	102.0	94.2	77.8	72.0
SR 4700 (DLFPS-236/3543)	8.3	6.9	6.4	6.0	7.9	7.7	8.2	8.3	105.3	89.3	78.2	72.0
GATOR FORE (DLFPS-236/3544)	8.5	7.2	6.4	6.0	8.2	7.8	8.2	8.3	103.7	92.9	78.6	72.0
ZOOM 2 (DLFPS-236/3545)	8.3	6.7	6.4	6.0	7.6	7.5	8.1	7.8	108.4	90.5	78.8	77.6
DLFPS-236/3553	8.1	6.6	6.2	6.0	8.1	7.8	8.2	8.3	100.1	84.9	75.7	72.2
HOMERUN LS (PPG-PR 419)	8.3	6.7	6.2	6.0	8.1	7.6	8.2	8.3	103.7	89.5	76.5	72.0
JR-888	8.2	6.8	6.4	6.0	7.9	7.6	8.2	8.3	104.1	90.8	78.7	72.0
LPB-SD-102	8.6	7.3	6.5	6.0	8.2	7.8	8.2	8.3	105.0	93.0	79.5	72.0
LPB-SD-105	8.5	7.2	6.4	6.0	8.2	7.7	8.2	8.3	103.3	94.0	78.6	72.0
ELEKTRA GLR (PPG-PR 371)	8.4	6.7	6.0	6.0	8.0	7.8	8.2	8.3	104.6	86.4	73.7	72.1
PPG-PR 372	8.2	6.7	6.1	6.0	8.0	7.7	8.2	8.3	102.8	86.9	74.5	72.1
SUPERSTAR GL (PPG-PR 420)	8.4	6.8	6.2	6.0	8.0	7.7	8.2	8.3	104.5	89.0	76.5	72.0
PR-5-16	8.0	6.6	6.0	6.0	8.0	7.8	8.2	8.3	100.5	85.6	73.2	72.3
SAGUARO	8.5	7.2	6.4	6.0	8.3	7.8	8.2	8.3	102.5	92.6	78.6	72.0
NEXUS GT (SNX)	8.2	6.8	6.5	6.0	8.0	7.7	8.2	8.3	103.0	87.9	79.5	72.0
HELIOS (DLFPS-236/3538)	8.3	6.8	5.9	5.8	8.0	7.7	8.2	8.3	104.1	89.1	72.8	70.0
FIESTA CINCO (DLFPS-236/3554)	8.2	6.6	6.2	5.8	8.1	7.8	8.2	8.3	101.0	85.7	75.7	70.2
GRAND SLAM GLD	8.2	6.6	6.0	5.8	7.9	7.7	8.2	8.3	103.5	86.3	73.6	70.0
MRSL-PR16	8.3	6.9	6.4	5.8	8.0	7.6	8.2	8.3	103.9	91.3	78.6	69.9
STELLAR 4GL (PPG-PR 424)	8.2	6.8	6.1	5.8	8.2	7.8	8.2	8.3	100.9	88.2	74.5	70.0
SWIFT (PST-2A2)	8.2	6.6	6.1	5.8	8.1	7.7	8.2	8.3	100.9	86.0	75.3	70.1
STARBRIGHT GLX (PST-2BDT)	7.7	6.6	6.0	5.8	8.1	7.3	8.1	8.2	95.8	90.9	74.7	71.8
PST-2MAY	8.2	6.7	6.1	5.8	8.2	7.7	8.2	8.3	100.0	87.6	75.3	70.1
SAVANT	8.4	7.2	6.5	5.8	8.1	7.5	8.2	8.3	103.8	95.6	79.8	69.9
SHIELD (02BS4)	8.2	6.9	6.5	5.8	8.1	7.8	8.2	8.3	100.3	89.6	79.5	70.0
ALLOY (RRT)	8.3	6.9	6.0	5.7	7.9	7.7	8.2	8.3	105.2	90.9	73.7	68.0
GREEN SUPREME+ (AMP-R1)	8.2	7.0	6.2	5.7	8.0	7.7	8.2	8.3	102.1	91.9	76.5	68.0
APR2616	8.1	6.8	6.3	5.7	8.0	7.0	7.5	8.3	102.2	98.4	84.3	68.1
APR3060	8.1	6.9	6.3	5.7	8.0	7.6	8.2	8.3	101.6	91.4	77.4	68.0

TABLE 26. (CONT'D)

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

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

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

TABLE 26. (CONT'D)

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

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

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

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

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

TABLE 26. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

NAME	PERCENT LEAF FIRING DURING TREATMENT				LEAF FIRING OF THE CONTROL			
	12DS	16DS	20DS	24DS	12DS	16DS	20DS	24DS
021	0	3.7	10.0	11.7	0	0	0	0
HATRICK (BSP-17)	0	2.7	8.0	12.0	0	0	0	0
TEE-ME-UP (BSP-25)	0	4.7	10.0	12.3	0	0	0	0
FIREBALL (BWH)	0	4.0	10.7	11.7	0	0	0	0
ALLSTAR FORE (DLFPS-236/3541)	0	3.7	7.3	15.7	0	0	0	0
LPB-SD-101	0	3.3	6.7	11.0	0	0	0	0
SIGNET	0	6.3	7.0	13.3	0	0	0	0
EVOLVE	0	7.7	15.0	16.3	0	0	0	0
INTENSE	0	8.7	9.7	13.7	0	0	0	0
LPB-SD-103	0	4.7	8.0	9.0	0	0	0	0
LPB-SD-104	0	6.3	10.3	13.3	0	0	0	0
MENSA	0	3.3	9.0	14.0	0	0	0	0
MRSL-PR15	0	4.3	9.3	12.7	0	0	0	0
PL2	0	3.0	6.3	15.0	0	0	0	0
SR 4650	0	6.0	9.3	12.7	0	0	0	0
BAR LP 6117	0	14.7	16.0	17.7	0	0	0	0
BAR LP 6165	0	10.7	15.0	12.7	0	0	0	0
DLFPS-236/3540	0	3.7	8.7	12.0	0	0	0	0
MIGHTIER (DLFPS-236/3542)	0	3.7	11.3	13.0	0	0	0	0
SR 4700 (DLFPS-236/3543)	0	2.7	7.3	16.3	0	0	0	0
GATOR FORE (DLFPS-236/3544)	0	3.7	8.3	14.0	0	0	0	0
ZOOM 2 (DLFPS-236/3545)	0	3.3	8.3	13.7	0	0	0	0
DLFPS-236/3553	0	12.7	11.3	12.0	0	0	0	0
HOMERUN LS (PPG-PR 419)	0	5.0	6.3	14.7	0	0	0	0
JR-888	0	4.3	8.7	16.7	0	0	0	0
LPB-SD-102	0	3.7	7.0	11.3	0	0	0	0
LPB-SD-105	0	3.7	10.3	14.7	0	0	0	0
ELEKTRA GLR (PPG-PR 371)	0	4.7	9.0	14.0	0	0	0	0
PPG-PR 372	0	5.0	7.7	10.7	0	0	0	0
SUPERSTAR GL (PPG-PR 420)	0	4.7	7.7	14.7	0	0	0	0
PR-5-16	0	8.7	13.3	11.3	0	0	0	0
SAGUARO	0	3.7	9.7	12.7	0	0	0	0
NEXUS GT (SNX)	0	9.0	12.7	19.3	0	0	0	0
HELIOS (DLFPS-236/3538)	0	4.3	8.3	14.7	0	0	0	0
FIESTA CINCO (DLFPS-236/3554)	0	11.3	12.0	10.7	0	0	0	0
GRAND SLAM GLD	0	7.3	12.7	14.7	0	0	0	0
MRSL-PR16	0	5.7	13.3	17.3	0	0	0	0
STELLAR 4GL (PPG-PR 424)	0	4.3	11.0	14.7	0	0	0	0
SWIFT (PST-2A2)	0	9.0	14.7	12.0	0	0	0	0
STARBRIGHT GLX (PST-2BDT)	0	9.3	10.7	16.0	0	0	0	0
PST-2MAY	0	6.3	10.7	12.0	0	0	0	0
SAVANT	0	4.0	9.7	15.0	0	0	0	0
SHIELD (02BS4)	0	8.7	13.7	22.7	0	0	0	0
ALLOY (RRT)	0	5.7	15.7	12.7	0	0	0	0
GREEN SUPREME+ (AMP-R1)	0	4.3	11.3	14.0	0	0	0	0
APR2616	0	8.0	13.3	15.3	0	0	0	0
APR3060	0	7.0	12.7	16.0	0	0	0	0

TABLE 26. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

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

TABLE 26. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR SALT TOLERANCE STUDY IN GREENHOUSE AT FORT COLLINS, CO 1/
2018 DATA

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

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

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

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

TABLE 26. (CONT'D)

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

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

NAME	CLIPPING YIELD (MG) DURING TREATMENT 12_DS	16_DS	20_DS	24_DS	CLIPPING YIELD (MG) CONTROL 12_DS	16_DS	20_DS	24_DS	PERCENT TREATMENT CLIPPING YIELD OVER CONTROL 12_DS	16_DS	20_DS	24_DS
021	105.0	103.0	51.0	22.7	132.7	203.0	176.7	175.7	74.6	65.0	29.7	13.2
HATRICK (BSP-17)	110.7	115.3	46.7	18.3	132.7	187.7	177.7	169.7	94.3	71.6	26.8	10.9
TEE-ME-UP (BSP-25)	78.7	116.7	53.0	34.3	104.3	188.0	166.0	178.0	75.4	74.5	31.6	17.3
FIREBALL (BWH)	71.3	96.7	52.0	23.3	93.3	205.0	175.3	164.7	98.2	61.7	29.8	13.8
ALLSTAR FORE (DLFPS-236/3541)	66.7	103.7	34.7	25.7	114.0	199.5	182.7	259.3	66.9	60.6	18.4	9.5
LPB-SD-101	83.7	102.7	61.0	34.3	92.7	208.0	178.3	185.0	92.0	64.6	35.0	18.9
SIGNET	77.0	115.0	48.0	23.0	136.0	210.3	170.7	167.0	58.1	65.7	28.4	13.8
EVOLVE	84.0	87.7	40.7	22.0	144.7	234.3	165.3	197.3	62.7	43.3	25.4	11.2
INTENSE	117.7	112.7	48.3	30.7	119.7	695.0	178.0	204.0	120.9	27.6	29.3	15.2
LPB-SD-103	70.3	97.3	68.7	36.7	52.0	215.0	178.7	180.0	137.3	48.5	38.2	22.2
LPB-SD-104	78.7	88.7	58.0	24.7	106.0	222.3	189.0	167.3	73.6	41.5	31.3	14.5
MENSA	86.7	124.0	57.0	31.3	95.0	223.3	152.7	151.3	96.7	58.7	36.6	20.3
MRSL-PR15	79.0	107.7	43.7	21.7	134.0	182.0	162.0	154.3	59.0	67.7	26.6	13.9
PL2	85.3	103.3	54.3	25.7	125.3	176.7	169.0	185.3	78.1	70.7	31.7	14.6
SR 4650	100.7	103.3	45.0	41.0	102.7	190.3	187.7	194.3	99.8	59.1	24.3	23.3
BAR LP 6117	76.3	83.7	36.7	37.0	108.0	201.0	174.3	166.3	73.9	43.2	21.2	24.9
BAR LP 6165	61.7	92.7	59.3	22.0	94.0	200.7	230.7	187.7	66.4	50.3	25.8	11.7
DLFPS-236/3540	93.3	106.3	56.3	28.3	140.7	193.3	177.7	194.3	68.0	71.5	32.4	14.1
MIGHTIER (DLFPS-236/3542)	546.7	90.3	64.7	39.3	99.7	202.3	173.3	159.0	198.9	47.8	38.1	24.5
SR 4700 (DLFPS-236/3543)	65.3	102.7	52.0	30.7	122.7	214.0	154.0	203.0	56.8	57.5	33.8	14.9
GATOR FORE (DLFPS-236/3544)	87.7	80.3	50.3	28.0	126.0	212.3	189.3	189.0	70.9	39.5	26.6	14.5
ZOOM 2 (DLFPS-236/3545)	74.7	113.0	48.3	34.7	82.0	217.0	161.3	189.0	113.0	59.8	29.5	18.2
DLFPS-236/3553	102.0	117.3	72.7	32.0	138.3	209.7	187.7	195.0	76.9	59.4	39.6	16.4
HOMERUN LS (PPG-PR 419)	102.3	95.3	50.7	50.7	150.3	270.3	203.7	174.7	71.6	34.4	24.9	28.8
JR-888	59.7	81.0	46.0	28.0	173.7	208.3	160.0	190.3	34.1	42.6	29.3	14.9
LPB-SD-102	73.0	51.0	57.3	35.0	96.0	199.3	187.3	145.0	107.8	28.7	31.6	23.7
LPB-SD-105	68.3	95.7	61.0	37.0	120.3	209.0	187.0	167.7	57.1	46.9	32.5	23.8
ELEKTRA GLR (PPG-PR 371)	96.3	91.7	47.7	47.0	137.0	211.3	188.0	187.7	77.4	44.4	25.8	25.3
PPG-PR 372	103.3	108.7	48.3	36.0	98.3	200.3	194.7	219.0	139.1	58.7	24.8	17.9
SUPERSTAR GL (PPG-PR 420)	101.7	99.7	54.7	49.3	123.0	233.0	183.3	196.3	94.7	46.2	31.1	25.4
PR-5-16	113.3	108.7	69.0	33.3	126.3	222.0	203.3	181.3	94.6	49.8	35.4	17.6
SAGUARO	85.3	96.7	62.3	35.3	113.7	233.7	183.3	175.7	75.3	43.7	34.3	19.5
NEXUS GT (SNX)	72.3	104.7	37.0	22.7	118.7	222.3	160.0	157.7	75.1	48.0	23.0	14.3
HELIOS (DLFPS-236/3538)	72.3	99.7	38.3	51.3	83.0	182.0	181.3	192.0	93.6	60.7	21.7	26.7
FIESTA CINCO (DLFPS-236/3554)	83.7	133.3	70.3	30.3	104.7	199.0	196.7	198.0	90.3	79.9	36.6	14.7
GRAND SLAM GLD	71.7	91.0	40.0	32.0	119.0	223.7	177.7	217.0	60.4	40.1	23.5	20.4
MRSL-PR16	83.3	89.7	44.7	27.0	153.7	201.7	171.7	156.3	56.7	48.1	26.5	16.7
STELLAR 4GL (PPG-PR 424)	86.3	108.0	52.3	42.3	167.3	212.3	200.0	172.0	49.7	57.0	27.9	27.3
SWIFT (PST-2A2)	108.3	105.3	60.3	26.0	107.0	207.3	198.0	188.3	105.0	62.0	32.1	13.8
STARBRIGHT GLX (PST-2BDT)	103.3	97.7	43.7	35.0	136.7	223.7	142.7	161.0	80.8	55.4	31.4	22.9
PST-2MAY	80.3	119.3	81.7	28.0	134.0	255.7	167.3	152.7	69.8	61.0	49.0	18.5
SAVANT	79.7	80.3	57.3	28.3	104.0	237.3	144.7	186.3	73.4	39.9	40.4	15.1
SHIELD (02BS4)	83.0	92.3	45.7	21.0	126.3	265.3	184.7	169.7	66.4	39.2	25.0	12.9
ALLOY (RRT)	86.7	113.0	65.0	42.3	102.7	192.7	151.0	166.7	128.5	67.1	42.5	26.4
GREEN SUPREME+ (AMP-R1)	99.0	100.7	79.3	34.7	107.3	224.7	176.0	205.0	92.8	52.7	45.7	17.1
APR2616	87.0	107.0	62.3	24.0	78.3	206.3	204.0	238.0	124.0	61.0	31.3	9.9
APR3060	83.7	100.0	76.3	29.0	105.3	231.7	179.0	190.7	83.6	45.8	43.1	14.6

TABLE 26. (CONT'D)

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

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

NAME	CLIPPING YIELD (MG) DURING TREATMENT 12_DS	16_DS	20_DS	24_DS	CLIPPING YIELD (MG) CONTROL 12_DS	16_DS	20_DS	24_DS	PERCENT TREATMENT CLIPPING YIELD OVER CONTROL 12_DS	16_DS	20_DS	24_DS
ASP0116EXT	108.3	97.7	48.3	20.0	129.7	235.0	182.3	172.7	83.6	44.3	26.8	12.6
ASP0117 (A-PR15)	89.0	101.3	45.0	19.0	130.3	214.3	181.7	195.7	68.3	61.3	24.5	9.9
ASP0118GL (A-4G)	75.0	105.0	49.3	22.0	97.3	196.7	178.0	199.7	80.6	55.0	28.6	11.8
BAR LP 6131	76.0	95.3	40.0	35.7	114.3	207.7	145.3	189.7	69.9	48.2	27.9	22.0
CS-6	70.0	88.0	50.3	20.7	104.7	229.3	174.0	182.0	64.4	43.4	29.2	12.0
DLFPS-236/3546	75.7	104.3	81.3	43.0	77.3	208.7	186.7	211.3	99.5	58.6	44.1	21.6
PARAGON 2 GLR (FP2)	109.0	106.3	58.0	31.3	112.0	201.3	188.7	224.3	93.0	55.7	31.6	14.2
FURLONG (LTP-FCB)	78.3	94.7	30.7	29.3	81.5	169.3	188.7	193.3	86.1	61.6	16.1	16.4
GRAY WOLF (PST-2GAL)	77.0	115.3	32.5	27.3	124.3	238.7	187.3	157.3	60.2	60.3	16.6	17.7
JR-123	76.7	104.7	44.3	24.3	86.3	236.0	177.0	161.0	145.2	51.4	25.3	14.1
KARMA	101.0	100.0	42.3	41.7	119.0	178.3	170.3	166.0	148.2	61.6	25.0	26.7
PPG-PR 385	96.7	101.0	58.3	58.7	91.3	243.0	200.3	194.0	136.5	44.6	29.5	33.2
PALMER SUPREME (PPG-PR 421)	84.7	107.3	43.0	50.7	140.3	222.3	173.3	200.3	64.9	57.4	27.8	25.5
PORTFOLIO (PPG-PR 423)	83.7	102.3	48.3	49.0	129.7	193.7	180.3	183.7	62.3	55.6	28.0	26.2
PST-2EGAD	84.0	90.7	60.0	33.0	106.0	191.3	174.7	183.0	77.7	48.4	35.4	20.3
IVY (PST-2GTD)	85.0	121.7	58.7	35.3	117.3	203.7	173.7	191.7	72.7	65.3	33.5	24.6
PST-2PDA	96.3	125.0	75.7	39.3	119.0	252.3	198.0	200.0	50.5	52.4	38.6	20.8
SILVER SPORT (PST-2CRP)	84.3	102.3	46.3	25.3	103.7	178.7	138.0	203.3	80.7	58.1	35.8	12.6
SPIKE GLS (UF3)	94.7	112.0	45.0	34.7	102.0	241.3	175.0	191.7	130.1	56.0	26.9	17.8
UMPQUA	75.7	91.3	60.7	32.0	108.7	209.3	187.3	187.0	71.3	44.5	32.3	17.2
CATALYST (023)	99.7	83.3	61.7	45.7	134.0	204.7	198.3	240.7	78.4	49.0	31.4	18.8
02BS1	86.0	118.0	58.3	29.7	100.7	200.0	195.3	196.3	87.3	59.7	30.3	15.4
SUNBURST (02BS2)	91.0	109.0	57.3	31.0	87.7	217.7	166.0	206.0	128.9	58.4	35.3	16.5
ALLSTAR III	387.3	95.0	52.7	43.3	111.3	224.0	166.0	163.3	277.3	47.3	30.8	28.9
APPLE 3GL (PPG-PR 339)	98.7	85.0	50.3	34.3	151.3	228.3	184.0	200.3	62.2	42.5	28.4	18.5
APR2612	71.7	97.0	66.3	36.0	99.7	226.3	187.0	197.7	85.0	45.2	36.2	19.3
BAR LP 6158	97.3	114.0	44.7	32.3	112.3	214.0	193.7	175.0	94.1	58.1	23.5	18.6
BAR LP 6159	79.7	117.0	62.3	33.3	84.7	221.7	169.0	186.3	91.2	54.8	36.5	18.9
BAR LP 6162	113.0	96.0	53.0	26.3	106.3	236.7	214.3	200.7	116.7	44.9	25.5	13.2
BAR LP 6164	88.0	113.3	52.0	40.3	105.0	171.0	189.3	195.0	96.8	76.7	28.8	20.9
BRIGHTSTAR SLT	59.0	105.0	55.3	25.7	108.3	257.7	192.3	208.3	53.7	49.0	30.0	13.7
CPN	81.0	109.3	71.3	32.0	101.0	195.0	179.0	193.7	85.9	59.4	39.9	16.2
DERBY XTREME	86.7	122.0	51.3	28.7	115.0	197.7	174.3	238.0	83.5	68.6	29.9	12.3
MYSTIQUE (DLFPS-236/3547)	80.7	109.0	64.0	31.0	91.3	193.7	183.3	193.3	94.2	67.1	35.7	15.7
GATOR CINCO 9DLFPS-236/35480	88.0	84.3	69.7	52.0	99.3	253.3	175.7	225.3	85.3	39.7	43.3	23.0
DLFPS-236/3550	93.0	100.0	63.7	48.3	125.3	223.7	180.0	186.7	73.6	62.4	36.7	25.5
DLFPS-236/3552	80.0	115.0	59.7	22.0	106.7	209.0	175.0	234.3	82.4	63.7	35.7	9.8
DLFPS-238/3014	101.0	117.7	69.7	46.3	140.3	214.7	197.7	200.7	79.9	53.8	40.8	22.9
BELIZE 2 (GO-142)	84.3	106.0	65.7	40.0	86.0	217.7	184.7	178.0	102.9	55.0	36.3	22.3
CAYMAN (GO-143)	80.7	105.0	61.7	29.0	86.3	240.0	184.0	213.7	98.6	52.1	33.3	13.3
REVENGE 2GLX (JR-197)	69.7	96.7	58.3	40.3	125.0	191.7	186.7	173.0	60.9	55.8	30.8	22.4
JR-747	57.0	105.0	50.3	32.7	104.7	227.7	176.0	166.3	60.3	56.1	29.0	19.3
LINN	82.7	137.3	85.7	31.0	154.3	286.7	243.3	206.3	52.9	54.9	35.1	14.9
MAN O WAR	74.3	110.3	63.0	42.3	110.7	218.0	183.3	185.7	71.2	60.9	34.7	23.6
NP-2	73.7	105.0	47.3	28.7	90.3	181.7	202.7	234.3	79.4	63.3	23.5	11.8
NP-3	81.7	100.3	58.3	15.7	119.7	236.7	163.0	182.0	63.6	47.3	38.3	9.3
OVERDRIVE 5G	91.7	97.0	51.3	20.3	81.3	172.3	189.3	191.3	112.3	59.8	27.1	10.9

TABLE 26. (CONT'D)

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

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

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

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

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

TABLE 27. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CA7	CT1	IA1	IL1	KS1	MI1	MN1	MO1	NE1	NJ2	OR1	UT1	MEAN
HATRICK (BSP-17)	6.8	8.7	6.7	7.7	7.0	7.7	5.8	6.8	6.7	8.2	7.7	8.3	7.4
FIREBALL (BWH)	7.7	8.5	6.1	8.2	7.0	7.8	6.8	6.2	6.7	8.1	7.7	8.2	7.4
ASP0116EXT	7.2	8.5	5.9	7.8	6.7	7.8	6.1	6.0	6.5	8.9	7.4	8.0	7.2
TEE-ME-UP (BSP-25)	6.2	8.5	6.3	8.1	7.0	7.3	5.0	6.8	6.5	7.8	7.4	7.9	7.1
RAD-PR 112	5.3	7.8	6.7	7.4	7.0	7.3	6.2	6.6	6.1	7.4	7.4	8.2	7.1
PEPPER II (RAD-PR 103)	5.5	7.7	6.5	7.3	6.7	7.8	5.7	6.4	6.6	6.8	7.3	7.7	6.9
NEXUS GT (SNX)	7.2	7.9	5.9	7.2	7.0	7.5	5.8	6.7	6.3	7.4	7.4	7.0	6.9
DLFPS-236/3546	7.3	7.1	6.4	7.7	7.0	7.3	6.3	6.3	5.8	7.6	7.3	7.1	6.9
FURLONG (LTP-FCB)	6.8	7.3	7.2	6.6	7.0	7.2	6.5	6.7	5.4	7.6	7.4	6.7	6.9
PR-6-15	6.3	6.9	6.8	7.4	7.0	7.0	6.5	6.2	6.1	7.6	7.3	6.8	6.9
ASP0118GL (A-4G)	6.7	7.5	6.2	7.9	7.0	7.5	5.3	6.2	6.1	7.4	7.5	7.1	6.8
PST-2FOXY	6.2	7.1	6.7	6.8	7.0	7.2	5.4	6.4	6.3	7.4	7.5	7.0	6.8
ASP0218 (A-6D)	6.8	7.7	5.8	7.2	7.0	7.3	5.4	6.3	6.3	7.4	7.3	7.3	6.8
MIGHTIER (DLFPS-236/3542)	7.0	7.3	6.3	6.8	7.0	7.2	5.9	6.3	6.1	7.3	7.4	7.1	6.8
PORTFOLIO (PPG-PR 423)	6.3	7.1	6.5	8.0	7.0	7.0	5.6	5.8	6.1	7.9	7.2	7.1	6.8
MRSL-PR16	8.2	6.9	6.1	7.1	7.0	7.3	5.7	6.1	6.4	7.6	7.3	7.2	6.8
MYSTIQUE (DLFPS-236/3547)	6.0	6.4	7.4	7.7	7.0	6.8	6.0	6.1	5.9	7.8	7.3	6.5	6.8
SLUGGER 3GL (PPG-PR 343)	6.3	6.7	6.6	7.9	7.0	7.0	5.8	6.4	5.9	7.6	7.3	7.0	6.8
GREEN SUPREME+ (AMP-R1)	5.8	7.5	5.9	7.0	7.0	7.5	5.7	6.0	6.5	7.3	7.5	7.2	6.8
PPG-PR 422	6.3	7.3	6.7	7.9	7.0	7.0	5.7	5.9	5.9	7.5	7.3	6.7	6.8
NP-2	7.3	7.1	6.5	8.1	7.0	7.2	6.0	6.2	6.0	6.9	7.1	6.6	6.8
PALMER SUPREME (PPG-PR 421)	6.5	7.3	6.9	7.4	7.0	7.0	5.5	6.0	6.3	6.7	7.1	7.1	6.8
SILVER SPORT (PST-2CRP)	6.3	6.9	6.6	7.0	7.0	7.0	5.8	6.6	6.3	7.4	7.2	7.1	6.8
GATOR FORE (DLFPS-236/3544)	5.7	6.4	6.7	7.8	7.0	7.0	6.7	6.0	5.9	7.8	7.3	6.8	6.8
PL2	6.2	7.7	6.6	7.8	6.7	7.0	6.5	6.0	5.7	6.9	7.1	6.7	6.7
PARAGON 2 GLR (FP2)	7.0	6.6	6.1	6.8	6.7	7.0	6.6	6.3	6.1	8.0	7.2	6.9	6.7
PPG-PR 372	5.8	7.1	6.6	7.4	7.0	7.0	5.4	6.3	6.1	7.4	7.4	6.7	6.7
STARBRIGHT GLX (PST-2BDT)	6.0	7.1	6.1	7.3	6.7	7.0	6.0	6.4	6.3	7.2	7.2	7.1	6.7
PPG-PR 360	5.8	7.2	6.5	7.4	7.0	7.0	5.5	6.2	6.0	7.5	7.3	7.0	6.7
CS-6	6.5	7.1	5.5	7.7	7.0	7.2	5.8	6.1	6.3	7.8	7.3	7.1	6.7
DLFPS-236/3552	6.7	7.3	6.7	7.0	7.0	6.8	4.9	6.8	6.3	6.8	7.4	6.7	6.7
ZOOM 2 (DLFPS-236/3545)	7.7	6.7	6.1	6.8	7.0	7.0	6.0	6.0	6.1	7.8	7.3	6.7	6.7
FIESTA CINCO (DLFPS-236/3554)	6.0	6.6	6.8	7.7	7.0	7.0	4.9	6.2	6.3	6.8	7.2	7.3	6.7
ELEKTRA GLR (PPG-PR 371)	5.5	6.9	6.7	7.4	7.0	7.0	5.9	6.4	6.0	7.1	7.4	6.3	6.7
GRAY WOLF (PST-2GAL)	6.7	6.8	6.9	8.1	7.0	7.2	4.9	6.2	6.0	7.3	7.0	6.7	6.7
ALLOY (RRT)	5.2	7.1	6.8	6.2	7.0	7.2	5.6	6.2	6.1	7.8	7.1	6.6	6.7
REVENGE 2GLX (JR-197)	6.7	7.0	6.1	7.3	7.0	6.7	6.0	6.1	6.1	7.3	7.5	6.5	6.6
FASTBALL 3GL (PPG-PR 329)	4.0	6.5	6.6	7.6	7.0	7.0	6.3	6.4	6.0	7.6	7.2	6.6	6.6
02BS1	6.0	6.5	6.1	6.8	7.0	7.0	6.3	5.9	6.4	7.2	7.5	6.6	6.6
ASP0117 (A-PR15)	7.0	7.5	5.7	6.8	7.0	7.2	5.3	5.7	6.1	7.3	7.1	7.1	6.6
MRSL-PR15	6.3	7.8	6.4	6.4	6.7	7.2	4.9	5.9	6.3	7.2	7.1	6.8	6.6
PPG-PR 370	6.3	7.2	6.4	6.9	7.0	6.8	4.9	5.8	6.3	7.4	7.1	6.9	6.6
SUPERSTAR GL (PPG-PR 420)	6.2	7.1	6.7	6.6	7.0	7.0	5.4	6.7	6.0	6.5	7.3	6.6	6.6
DERBY XTREME	5.5	7.0	6.0	7.9	6.7	7.2	5.1	6.3	6.1	6.8	7.4	7.0	6.6
PHARAOH	6.5	6.8	6.3	6.8	6.7	7.0	6.1	5.9	5.9	7.6	7.3	6.3	6.6

TABLE 27. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-21 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CA7	CT1	IA1	IL1	KS1	MI1	MN1	MO1	NE1	NJ2	OR1	UT1	MEAN
PPG-PR 367	6.8	6.9	5.7	7.1	7.0	7.0	6.2	5.9	5.8	7.6	7.4	6.3	6.6
NP-3	6.5	7.0	6.3	7.8	7.0	6.7	5.4	6.2	5.7	7.4	7.1	6.6	6.6
SR 4700 (DLFPS-236/3543)	5.8	7.2	7.1	6.8	7.0	7.0	5.0	6.1	5.9	6.4	7.2	7.0	6.6
APPLE 3GL (PPG-PR 339)	5.8	6.9	6.1	7.9	7.0	7.0	5.1	5.8	6.1	7.2	7.3	6.8	6.6
APR2616	6.3	6.8	6.6	8.0	7.0	7.3	4.9	6.2	6.1	6.8	6.9	6.7	6.6
INTENSE	6.0	7.0	5.9	7.8	7.0	7.0	5.8	5.9	6.2	7.3	7.1	6.4	6.6
GATOR CINCO (DLFPS-236/3548)	6.0	6.9	6.7	7.1	7.0	7.0	5.1	6.2	5.8	6.7	7.3	6.6	6.6
APR2612	6.3	6.8	6.5	6.9	7.0	7.3	5.7	5.8	6.2	6.8	7.1	6.6	6.6
DLFPS-236/3540	6.0	6.9	6.1	7.8	7.0	6.8	5.3	6.0	5.9	7.1	7.1	6.9	6.6
STELLAR 4GL (PPG-PR 424)	6.2	6.5	6.8	6.9	7.0	7.0	5.8	6.1	5.9	6.8	7.2	6.5	6.5
ALLSTAR FORE (DLFPS-236/3541)	4.8	7.0	7.0	6.3	7.0	7.0	4.8	6.1	6.1	7.1	7.3	6.7	6.5
DLFPS-236/3550	6.5	6.6	6.5	7.6	7.0	7.0	4.8	6.0	5.9	6.8	7.2	7.0	6.5
PST-2MAY	6.2	6.9	6.7	6.6	.	6.8	5.5	6.0	6.2	6.6	7.1	6.5	6.5
SWIFT (PST-2A2)	5.7	6.4	6.1	8.1	7.0	7.0	5.2	5.9	5.9	7.3	7.4	6.7	6.5
SLIDER LS (PPG-PR 241)	5.8	7.2	6.3	6.0	7.0	7.0	5.6	6.1	6.1	6.8	7.2	6.5	6.5
UMPQUA	5.8	6.2	7.3	7.1	7.0	7.0	5.5	5.9	5.8	6.7	7.2	6.3	6.5
XCELERATOR	5.3	6.7	6.5	8.0	7.0	7.0	5.2	6.1	5.8	7.1	7.1	6.5	6.5
LPB-SD-102	5.5	7.1	6.2	7.9	6.7	6.8	5.0	5.8	6.1	6.5	6.9	7.1	6.5
SPIKE GLS (UF3)	5.8	6.7	6.3	6.9	6.7	7.2	5.7	5.6	6.0	7.3	7.2	6.2	6.5
HOMERUN LS (PPG-PR 419)	7.2	6.6	6.3	7.4	7.0	7.0	5.3	5.8	6.1	7.0	7.0	6.2	6.5
CAYMAN (GO-143)	6.0	7.1	5.9	7.1	7.0	7.2	4.9	6.3	6.3	6.6	7.0	6.8	6.5
OVERDRIVE 5G	6.5	6.4	6.3	7.7	7.0	7.0	5.3	6.2	5.9	7.1	7.3	6.1	6.5
DLFPS-236/3553	6.2	6.5	6.3	7.0	6.7	6.8	5.7	6.3	5.8	7.0	7.2	6.3	6.5
PARADOX GLR (PPG-PR 331)	5.0	6.9	6.4	7.7	7.0	7.0	4.8	6.0	6.0	6.4	7.1	6.8	6.5
SHIELD (02BS4)	5.8	6.7	6.6	7.7	6.7	7.2	5.3	5.8	5.9	6.8	7.0	6.1	6.4
SR 4650	6.2	6.3	5.9	7.8	7.0	7.0	5.8	6.1	5.9	6.6	7.1	6.4	6.4
MAN O WAR	6.8	6.6	6.3	5.2	7.0	7.2	6.6	5.6	5.7	7.2	7.1	6.3	6.4
DLFPS-236/3556	6.0	6.8	6.1	8.3	7.0	7.0	5.6	5.8	5.4	6.5	7.2	6.1	6.4
GRAND SLAM GLD	6.8	6.4	6.9	5.4	7.0	7.0	4.9	5.8	5.9	7.3	7.1	6.6	6.4
GO-141	5.8	6.9	6.1	6.9	7.0	7.2	4.4	6.4	6.1	6.9	7.0	6.7	6.4
CPN	5.7	6.6	6.1	7.0	7.0	7.2	5.2	6.1	5.8	7.3	7.1	6.3	6.4
LPB-SD-103	5.7	6.7	6.1	8.4	6.3	6.8	4.7	5.9	6.0	6.7	6.7	6.9	6.4
IVY (PST-2GTD)	6.0	6.9	6.7	5.4	7.0	7.0	5.2	6.1	5.8	6.8	7.0	6.6	6.4
SUNBURST (02BS2)	5.8	6.3	6.1	6.1	7.0	7.0	6.3	6.1	5.8	6.8	7.1	6.1	6.4
GRAY HAWK (PST-2FIND)	6.2	6.8	6.3	6.9	7.0	6.8	5.0	5.9	5.8	6.6	7.0	6.7	6.4
LPB-SD-104	5.7	7.3	5.8	7.4	6.3	7.0	4.7	6.2	5.9	6.1	7.1	7.1	6.4
JR-123	5.5	6.4	5.5	6.8	7.0	7.0	5.5	6.3	6.1	6.8	7.1	6.4	6.3
APR3060	5.7	7.0	6.6	7.1	7.0	7.3	4.8	5.9	6.1	5.7	6.9	6.4	6.3
PST-2EGAD	5.7	6.7	6.5	7.2	6.7	7.0	4.8	5.8	6.1	6.3	7.1	6.3	6.3
SIGNET	5.2	6.6	6.5	6.2	6.7	7.0	4.8	6.0	5.8	6.8	7.1	6.5	6.3
ALLSTAR III	6.3	6.2	5.5	7.3	7.0	7.0	5.0	6.0	6.0	7.1	6.9	6.3	6.3
MENSA	5.7	6.5	5.7	8.2	6.3	6.8	4.7	5.8	5.7	6.9	6.8	6.7	6.3
CATALYST (023)	6.2	6.4	6.6	6.2	6.7	6.8	5.0	5.8	5.4	6.8	7.1	6.3	6.3
HELIOS (DLFPS-236/3538)	5.7	6.7	6.6	6.8	7.0	7.0	4.7	6.0	5.7	5.8	6.9	6.2	6.2
SEABISCUIT	5.7	6.1	6.2	6.4	7.0	7.0	5.2	5.4	6.0	6.7	7.1	6.1	6.2
KARMA	6.2	6.4	5.7	7.7	.	6.8	5.2	5.8	5.8	6.0	7.1	6.0	6.2

TABLE 27. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-21 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CA7	CT1	IA1	IL1	KS1	MI1	MN1	MO1	NE1	NJ2	OR1	UT1	MEAN
BAR LP 6117	5.7	6.4	5.9	7.7	6.7	7.0	4.2	6.1	5.9	5.6	7.1	6.4	6.2
021	5.7	6.4	6.1	6.1	6.7	7.2	5.6	5.6	5.7	6.2	6.9	6.1	6.2
BELIZE 2 (GO-142)	5.5	6.9	5.6	6.2	7.0	7.3	4.3	5.9	5.9	6.0	7.1	6.5	6.2
PR-5-16	6.2	6.3	6.3	6.3	7.0	6.7	4.6	5.6	5.8	6.0	7.0	6.4	6.2
LPB-SD-105	5.7	6.5	6.3	7.3	6.3	6.3	4.4	5.8	5.7	5.8	6.9	6.7	6.1
SAGUARO	6.0	6.1	5.7	7.7	6.3	7.0	4.7	5.6	5.7	6.3	6.9	6.7	6.1
PPG-PR 385	6.5	6.2	6.7	6.7	6.7	7.0	4.4	5.7	5.4	6.3	7.0	5.8	6.1
PST-2PDA	6.0	5.9	6.1	8.3	7.0	6.7	4.4	5.6	5.5	6.1	7.0	5.9	6.1
BAR LP 6164	5.7	6.1	6.7	7.1	6.7	6.7	4.0	5.9	6.1	5.2	6.9	5.9	6.0
JR-747	5.0	6.5	5.0	7.6	6.0	6.8	4.0	6.1	5.7	6.1	6.9	6.5	6.0
BAR LP 6159	5.7	6.1	6.6	6.9	6.3	6.7	4.0	6.0	5.7	5.1	6.9	6.1	6.0
EVOLVE	5.5	6.5	5.6	6.7	6.3	6.8	5.0	5.9	5.6	5.6	6.9	5.6	6.0
BAR LP 6162	5.5	5.8	6.2	7.7	6.7	6.8	2.8	5.4	6.2	6.8	6.7	5.5	5.9
BAR LP 6158	5.2	6.2	6.5	7.8	6.3	6.8	3.8	5.7	5.7	4.7	6.9	5.7	5.9
LPB-SD-101	5.8	6.1	5.9	7.8	6.3	6.8	3.3	5.7	5.4	4.6	6.7	6.3	5.8
DLFPS-238/3014	6.0	6.1	7.0	6.6	6.3	6.7	3.8	5.8	5.5	5.3	6.6	5.1	5.8
BRIGHTSTAR SLT	5.3	5.7	6.0	6.6	6.7	6.5	3.9	6.1	5.9	5.1	6.9	5.6	5.8
BAR LP 6131	5.5	5.8	6.1	7.2	6.3	6.8	3.8	5.9	5.4	5.2	6.8	5.5	5.8
SAVANT	4.5	6.0	5.9	7.4	6.3	6.3	4.3	5.3	5.0	4.6	6.7	6.2	5.7
BAR LP 6233	4.8	5.7	6.9	6.6	6.3	6.3	3.9	5.6	5.0	4.7	6.8	4.8	5.6
JR-888	3.2	5.9	5.7	5.9	6.3	6.7	3.9	5.7	4.8	4.3	6.9	5.5	5.4
BAR LP 6165	4.0	4.5	7.2	6.4	6.0	6.5	2.5	4.8	4.3	2.2	6.5	4.5	4.9
LINN	4.5	2.9	5.4	3.9	6.0	5.2	2.2	3.6	4.5	1.4	5.7	2.5	3.8
LSD VALUE	1.4	1.3	1.2	2.3	0.5	0.6	1.3	1.4	0.8	1.1	0.6	1.1	0.4
C.V. (%)	14.4	12.1	12.0	21.7	4.7	5.6	16.1	15.1	8.3	10.6	5.5	10.8	12.1

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

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

TABLE 28. SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	CA7	CT1	IA1	IL1	KS1	MI1	NE1	UT1	MEAN
NP-2	7.0	6.4	7.0	8.1	7.0	5.7	5.1	6.5	6.6
PPG-PR 367	7.0	7.3	6.7	7.9	7.0	5.7	4.5	5.9	6.4
GATOR FORE (DLFPS-236/3544)	5.0	6.8	7.7	8.1	7.0	5.3	4.8	5.9	6.4
PHARAOH	7.0	7.6	7.3	7.0	6.7	5.3	4.7	5.7	6.3
INTENSE	6.0	6.8	6.8	7.8	7.0	5.0	4.6	6.2	6.3
PALMER SUPREME (PPG-PR 421)	6.3	6.4	7.0	7.8	7.0	5.0	5.1	5.8	6.3
REVENGE 2GLX (JR-197)	6.3	6.7	7.2	7.1	7.0	5.7	4.9	5.9	6.3
OVERDRIVE 5G	6.3	6.3	7.0	7.9	6.7	6.0	5.0	5.7	6.3
PL2	5.7	6.6	6.5	8.0	7.0	5.0	4.7	6.2	6.3
PARAGON 2 GLR (FP2)	6.3	6.7	6.8	7.1	6.7	6.3	4.9	6.0	6.2
PORTFOLIO (PPG-PR 423)	6.3	6.4	6.7	8.4	7.0	5.3	4.8	5.6	6.2
PPG-PR 422	5.3	6.6	6.8	7.7	7.0	5.3	5.1	5.8	6.2
FASTBALL 3GL (PPG-PR 329)	2.0	6.5	6.8	7.9	7.0	6.0	5.3	6.1	6.2
ZOOM 2 (DLFPS-236/3545)	8.7	6.6	6.7	6.8	7.0	5.3	5.1	5.8	6.2
ASP0218 (A-6D)	7.3	6.0	6.8	8.1	7.0	5.7	4.6	6.0	6.2
NP-3	6.7	6.8	7.2	7.4	7.0	5.0	4.5	5.8	6.2
DLFPS-236/3540	7.3	6.5	6.7	7.7	7.0	5.3	5.3	5.3	6.2
STELLAR 4GL (PPG-PR 424)	5.7	7.2	6.7	7.0	7.0	5.0	4.9	5.8	6.2
DLFPS-236/3556	7.0	6.4	7.0	7.9	6.7	5.7	4.7	5.6	6.2
PARADOX GLR (PPG-PR 331)	4.3	6.6	7.0	7.8	7.0	5.0	4.6	6.0	6.2
DLFPS-236/3552	6.3	6.5	6.5	7.1	7.0	6.0	4.9	6.0	6.2
PR-6-15	7.0	5.8	6.3	8.0	6.7	5.3	5.1	5.8	6.2
SEABISCUIT	6.0	7.3	7.2	6.3	6.7	4.7	4.4	6.1	6.2
XCELERATOR	3.7	6.4	5.5	8.6	6.7	5.3	4.9	6.0	6.2
PPG-PR 360	5.3	6.2	7.3	7.1	7.0	5.3	4.6	6.3	6.1
FIREBALL (BWH)	6.3	5.9	7.0	8.3	7.0	6.0	4.4	5.5	6.1
GRAY WOLF (PST-2GAL)	5.3	6.4	6.5	7.4	7.0	5.3	4.8	6.0	6.1
FURLONG (LTP-FCB)	5.7	6.7	7.2	7.0	7.0	5.7	4.5	5.9	6.1
HOMERUN LS (PPG-PR 419)	7.0	6.5	6.2	7.6	7.0	5.0	4.8	5.7	6.1
ASP0116EXT	6.3	5.6	7.2	7.6	7.0	5.7	4.7	6.2	6.1
MYSTIQUE (DLFPS-236/3547)	5.3	6.6	6.7	7.9	6.7	5.3	4.8	5.4	6.1
CPN	6.7	6.4	7.0	7.1	6.7	5.7	4.9	5.4	6.1
SLUGGER 3GL (PPG-PR 343)	5.3	6.3	6.8	7.9	7.0	5.0	4.3	5.8	6.1
BAR LP 6164	5.7	6.7	6.5	7.8	6.3	4.7	4.8	5.5	6.1
DLFPS-236/3546	5.7	6.3	6.7	7.6	7.0	5.3	4.6	5.8	6.1
ASP0117 (A-PR15)	7.3	6.0	6.5	6.8	7.0	5.7	4.7	6.3	6.1
SIGNET	5.7	7.0	5.8	6.8	7.0	5.0	4.8	5.9	6.1
APPLE 3GL (PPG-PR 339)	5.3	6.6	6.7	7.6	7.0	5.7	4.6	5.5	6.0
APR2616	6.3	5.8	6.7	8.0	6.7	5.3	5.0	5.3	6.0
PST-2PDA	6.3	6.8	6.3	7.4	7.0	5.3	4.6	5.5	6.0
SHIELD (02BS4)	6.0	6.3	5.8	7.7	6.7	5.7	4.8	5.8	6.0
SUPERSTAR GL (PPG-PR 420)	6.3	6.3	6.7	6.9	7.0	6.0	4.7	5.8	6.0
PPG-PR 370	5.7	5.8	6.8	7.0	7.0	5.7	4.7	6.2	6.0
SR 4650	6.3	6.0	6.3	8.0	6.7	5.3	4.4	5.8	6.0
02BS1	5.3	6.6	6.2	6.8	7.0	5.7	4.8	5.8	6.0

TABLE 28. (CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	CA7	CT1	IA1	IL1	KS1	MI1	NE1	UT1	MEAN
LPB-SD-103	6.0	5.6	6.0	7.4	6.3	5.7	4.9	6.1	6.0
MIGHTIER (DLFPS-236/3542)	7.7	5.8	6.3	7.0	7.0	5.7	4.9	5.7	6.0
PPG-PR 372	6.3	6.6	6.7	7.3	6.7	5.7	4.8	5.2	6.0
JR-123	5.3	6.6	5.5	7.2	7.0	5.0	4.5	5.8	6.0
SUNBURST (02BS2)	5.3	6.6	6.3	6.1	7.0	5.0	4.7	6.3	6.0
SWIFT (PST-2A2)	6.0	6.1	6.3	8.0	6.7	5.3	4.3	5.6	6.0
ELEKTRA GLR (PPG-PR 371)	5.0	5.9	6.5	7.4	7.0	5.3	4.8	5.7	6.0
PST-2FOXY	5.7	6.1	7.0	7.3	6.7	5.7	4.5	5.4	6.0
PST-2EGAD	5.7	5.9	7.2	6.7	7.0	5.3	4.7	5.8	6.0
DLFPS-236/3553	7.3	5.9	6.3	7.2	7.0	5.0	4.5	5.8	5.9
STARBRIGHT GLX (PST-2BDT)	7.3	6.0	6.2	6.9	7.0	5.7	5.0	5.5	5.9
TEE-ME-UP (BSP-25)	7.0	4.9	6.5	8.2	6.7	5.7	4.2	6.1	5.9
SLIDER LS (PPG-PR 241)	5.7	6.3	7.0	6.0	7.0	5.3	5.2	5.5	5.9
MRSL-PR15	8.0	5.8	7.2	6.9	7.0	5.3	4.4	5.5	5.9
SR 4700 (DLFPS-236/3543)	5.7	6.3	6.5	6.7	7.0	5.7	4.8	5.5	5.9
PST-2MAY	5.7	6.5	6.3	7.3	.	5.3	4.3	5.8	5.9
SILVER SPORT (PST-2CRP)	6.7	5.9	6.2	6.8	7.0	5.7	4.7	5.8	5.9
ASP0118GL (A-4G)	5.7	5.4	7.0	7.4	7.0	4.7	4.6	5.9	5.9
ALLOY (RRT)	3.3	6.8	6.2	6.4	7.0	4.7	4.8	5.9	5.9
GATOR CINCO (DLFPS-236/3548)	6.0	5.4	6.2	8.1	7.0	6.0	4.3	5.8	5.9
GO-141	6.7	5.9	6.0	7.0	6.3	5.3	4.7	5.8	5.9
DLFPS-236/3550	6.0	6.0	6.3	7.4	7.0	5.0	4.5	5.6	5.9
CAYMAN (GO-143)	6.3	5.3	6.2	7.1	7.0	5.7	4.8	5.8	5.9
DERBY XTREME	5.7	5.8	7.2	7.7	6.7	5.7	4.5	5.1	5.9
CATALYST (023)	6.3	6.6	6.2	5.9	6.7	6.0	4.7	5.8	5.9
PEPPER II (RAD-PR 103)	5.7	6.1	6.0	7.8	7.0	5.0	4.5	5.3	5.9
NEXUS GT (SNX)	6.7	5.8	6.7	6.9	6.7	5.0	4.4	5.8	5.9
FIESTA CINCO (DLFPS-236/3554)	6.7	5.5	5.7	7.7	7.0	5.3	4.8	5.7	5.9
RAD-PR 112	4.3	5.3	6.2	7.7	7.0	5.3	4.3	6.3	5.9
HATRICK (BSP-17)	5.0	5.8	6.5	7.1	7.0	5.0	4.5	5.8	5.9
UMPQUA	5.3	6.1	6.8	6.9	6.0	4.7	4.6	5.8	5.9
IVY (PST-2GTD)	6.0	6.2	7.3	6.0	7.0	5.3	4.8	5.3	5.8
SPIKE GLS (UF3)	6.0	5.9	6.0	7.0	7.0	5.3	4.5	5.8	5.8
SAGUARO	7.7	5.2	5.8	7.7	6.7	5.0	5.0	5.4	5.8
HELIOS (DLFPS-236/3538)	6.3	6.1	6.8	6.6	6.7	5.7	4.4	5.4	5.8
KARMA	6.0	5.4	6.7	7.9	.	5.3	4.5	5.5	5.8
PR-5-16	6.0	6.0	5.8	7.0	7.0	5.0	4.4	5.8	5.8
BAR LP 6158	6.3	5.5	5.8	7.8	7.0	5.7	4.3	5.6	5.8
GRAY HAWK (PST-2FIND)	5.7	6.0	6.8	6.3	6.3	5.7	4.8	5.6	5.8
ALLSTAR FORE (DLFPS-236/3541)	4.3	5.8	6.7	6.2	7.0	5.3	4.8	5.9	5.8
BAR LP 6233	5.7	5.8	6.7	6.3	7.0	6.0	4.8	5.5	5.8
CS-6	5.7	5.4	6.7	7.0	7.0	5.3	4.2	5.9	5.8
MRSL-PR16	8.0	5.7	5.5	7.1	6.3	4.7	4.6	5.6	5.8
BAR LP 6159	5.3	5.8	6.5	6.6	6.7	5.0	4.3	6.0	5.8
EVOLVE	7.3	6.1	5.7	6.3	6.3	5.3	4.9	5.4	5.8
GRAND SLAM GLD	6.7	6.2	6.8	5.3	6.7	5.3	4.7	5.7	5.8

TABLE 28. (CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	CA7	CT1	IA1	IL1	KS1	MI1	NE1	UT1	MEAN
BAR LP 6117	5.7	5.3	6.2	8.0	7.0	5.3	4.3	5.4	5.8
GREEN SUPREME+ (AMP-R1)	4.7	6.0	6.7	6.8	6.7	5.7	4.3	5.5	5.7
MAN O WAR	7.3	6.3	7.5	5.7	6.7	5.7	4.3	5.1	5.7
BRIGHTSTAR SLT	5.7	5.3	6.5	6.8	7.0	5.3	4.8	5.7	5.7
APR3060	5.0	5.6	6.8	6.9	7.0	5.0	4.7	5.3	5.7
PPG-PR 385	8.0	5.8	6.3	6.6	6.7	5.0	4.3	5.3	5.7
ALLSTAR III	6.3	6.0	5.0	6.9	7.0	5.3	4.5	5.7	5.7
MENSA	7.7	5.3	6.0	7.4	7.0	5.0	4.7	4.8	5.7
021	5.0	6.2	5.3	5.9	7.0	5.0	4.5	5.8	5.6
APR2612	4.7	5.3	6.5	7.2	7.0	5.7	4.3	5.0	5.6
DLFPS-238/3014	6.3	5.4	6.5	6.7	6.7	5.0	4.0	5.5	5.6
LPB-SD-102	6.0	4.7	5.5	7.7	6.3	5.0	5.4	4.6	5.5
BAR LP 6165	5.7	5.8	7.2	6.8	5.0	5.7	4.3	4.5	5.5
LPB-SD-101	7.3	4.8	5.5	7.4	6.7	5.0	4.8	4.9	5.5
BELIZE 2 (GO-142)	6.7	5.3	6.5	6.1	7.0	5.0	4.5	5.1	5.5
BAR LP 6131	6.0	5.0	6.0	7.0	6.7	5.0	4.6	4.9	5.4
BAR LP 6162	7.7	4.6	5.3	7.6	7.0	5.3	4.3	5.1	5.4
JR-888	2.3	5.8	6.0	5.9	6.7	5.0	4.9	5.2	5.4
SAVANT	5.3	5.1	4.7	7.3	6.3	5.3	4.8	4.8	5.4
LPB-SD-105	7.3	4.5	5.2	6.8	6.3	5.3	4.9	4.5	5.3
LPB-SD-104	5.7	4.4	5.2	7.0	6.7	5.3	4.9	4.8	5.3
JR-747	5.0	4.3	5.2	7.3	7.0	5.3	4.8	4.6	5.3
LINN	4.7	5.2	5.2	5.0	5.0	4.7	3.8	4.8	4.8
LSD VALUE	1.7	1.3	1.1	2.1	0.6	1.0	0.9	1.3	0.7
C.V. (%)	17.1	13.2	10.8	19.9	5.8	11.8	12.1	15.7	14.8

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

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

TABLE 29. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017 DATA

	SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/					
NAME	CA7	IA1	KS1	KY1	MO1	MEAN
CPN	6.7	7.7	7.0	6.0	6.0	6.7
GRAY HAWK (PST-2FIND)	7.0	7.3	7.0	5.7	6.3	6.7
UMPQUA	7.3	5.3	8.0	6.3	6.3	6.7
SEABISCUIT	6.0	7.7	6.3	6.7	6.3	6.6
SIGNET	6.3	8.0	7.0	5.7	6.0	6.6
EVOLVE	6.7	7.0	6.7	6.3	6.0	6.5
PALMER SUPREME (PPG-PR 421)	6.3	7.0	7.7	5.7	6.0	6.5
SAVANT	6.0	7.0	6.7	6.3	6.7	6.5
DLFPS-236/3556	6.7	7.3	6.7	5.3	6.0	6.4
JR-888	7.3	6.3	6.7	6.0	5.7	6.4
OVERDRIVE 5G	6.7	6.3	7.3	5.7	6.0	6.4
PL2	6.0	7.0	6.7	5.7	6.7	6.4
HOMERUN LS (PPG-PR 419)	7.0	7.3	6.7	5.3	5.7	6.4
STELLAR 4GL (PPG-PR 424)	6.0	7.3	7.0	5.3	6.3	6.4
ASP0117 (A-PR15)	5.7	7.0	7.3	5.7	6.0	6.3
GRAND SLAM GLD	5.7	7.0	7.7	6.0	5.3	6.3
PARADOX GLR (PPG-PR 331)	6.7	5.7	7.7	6.0	5.7	6.3
SHIELD (02BS4)	6.3	7.3	6.7	6.0	5.3	6.3
BRIGHTSTAR SLT	5.7	7.7	6.7	5.7	5.7	6.3
APPLE 3GL (PPG-PR 339)	7.7	4.7	7.0	6.0	6.0	6.3
PPG-PR 422	7.3	5.7	6.7	5.7	6.0	6.3
ASP0116EXT	6.3	7.3	6.3	5.3	6.0	6.3
BAR LP 6117	7.7	5.3	6.7	6.3	5.3	6.3
PHARAOH	6.0	6.3	7.0	6.0	6.0	6.3
PST-2PDA	6.0	7.0	6.7	6.3	5.3	6.3
CATALYST (023)	5.7	6.7	7.0	6.0	5.7	6.2
REVENGE 2GLX (JR-197)	6.7	6.7	6.3	5.7	5.7	6.2
NEXUS GT (SNX)	6.3	7.0	6.7	5.7	5.3	6.2
JR-747	7.0	5.7	7.3	5.0	5.7	6.1
LPB-SD-101	7.0	5.0	7.7	5.7	5.3	6.1
MAN O WAR	7.3	5.0	6.3	6.0	6.0	6.1
NP-2	5.0	6.3	7.0	6.0	6.3	6.1
SUNBURST (02BS2)	6.0	5.7	7.0	6.0	5.7	6.1
BAR LP 6159	5.3	5.7	7.3	6.3	5.7	6.1
BAR LP 6233	7.0	6.3	6.3	5.7	5.0	6.1
PORTFOLIO (PPG-PR 423)	4.0	6.3	7.3	7.0	5.7	6.1
HATRICK (BSP-17)	6.7	5.7	6.0	6.0	5.7	6.0
ASP0118GL (A-4G)	7.0	6.0	6.3	5.7	5.0	6.0
FIESTA CINCO (DLFPS-236/3554)	7.3	4.7	6.3	6.0	5.7	6.0
MRSL-PR16	6.7	6.3	6.3	5.7	5.0	6.0
PPG-PR 370	6.0	4.3	7.7	6.0	6.0	6.0
PPG-PR 385	5.3	5.7	7.7	5.3	6.0	6.0
SWIFT (PST-2A2)	8.0	6.3	5.0	5.3	5.3	6.0
XCELERATOR	6.7	6.3	6.3	5.3	5.3	6.0
ALLSTAR III	5.7	6.3	6.7	5.7	5.3	5.9

TABLE 29. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017 DATA

	SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/					
NAME	CA7	IA1	KS1	KY1	MO1	MEAN
FIREBALL (BWH)	4.7	6.7	7.0	5.3	6.0	5.9
GO-141	7.0	4.3	7.0	5.7	5.7	5.9
BELIZE 2 (GO-142)	7.0	4.7	7.0	5.7	5.3	5.9
FURLONG (LTP-FCB)	5.7	7.0	6.0	5.7	5.3	5.9
PPG-PR 372	6.0	5.3	7.0	5.7	5.7	5.9
SR 4650	4.7	7.7	6.3	5.0	6.0	5.9
INTENSE	6.3	6.0	6.3	5.7	5.3	5.9
LPB-SD-102	7.0	5.0	6.3	6.0	5.3	5.9
ASP0218 (A-6D)	7.0	5.7	5.7	6.0	5.0	5.9
NP-3	5.0	6.0	7.0	5.7	5.7	5.9
SPIKE GLS (UF3)	6.0	5.7	6.0	6.0	5.7	5.9
021	6.3	6.0	6.0	5.0	6.0	5.9
FASTBALL 3GL (PPG-PR 329)	6.0	5.0	7.3	5.7	5.3	5.9
ELEKTRA GLR (PPG-PR 371)	6.3	4.3	7.0	5.7	6.0	5.9
APR2616	6.3	5.0	6.7	5.3	5.7	5.8
MYSTIQUE (DLFPS-236/3547)	6.3	5.0	7.0	5.7	5.0	5.8
PARAGON 2 GLR (FP2)	6.0	5.3	6.7	5.7	5.3	5.8
BAR LP 6158	6.0	5.3	6.3	6.3	5.0	5.8
DERBY XTREME	4.3	6.3	6.3	6.0	5.7	5.7
DLFPS-236/3540	6.0	4.7	7.3	4.7	6.0	5.7
ZOOM 2 (DLFPS-236/3545)	6.3	4.7	7.0	5.7	5.0	5.7
CAYMAN (GO-143)	7.0	4.3	6.0	5.7	5.7	5.7
MRSL-PR15	5.3	6.3	5.7	5.7	5.7	5.7
BAR LP 6131	6.3	5.0	6.7	5.3	5.3	5.7
BAR LP 6164	6.7	4.3	6.3	5.3	6.0	5.7
ALLSTAR FORE (DLFPS-236/3541)	6.3	4.3	6.7	6.3	5.0	5.7
DLFPS-236/3553	5.7	5.3	6.3	5.3	6.0	5.7
MIGHTIER (DLFPS-236/3542)	6.0	5.3	6.7	4.7	5.7	5.7
PPG-PR 360	5.0	4.0	7.7	5.7	6.0	5.7
GREEN SUPREME+ (AMP-R1)	6.3	4.3	6.7	6.0	5.0	5.7
TEE-ME-UP (BSP-25)	6.3	4.7	6.3	5.7	5.3	5.7
SLUGGER 3GL (PPG-PR 343)	5.7	4.7	7.3	5.3	5.3	5.7
PPG-PR 367	6.3	4.0	7.0	5.3	5.7	5.7
PR-5-16	5.7	4.3	6.3	6.0	6.0	5.7
ALLOY (RRT)	6.0	5.3	7.0	5.3	4.7	5.7
CS-6	5.7	5.0	6.7	6.0	4.7	5.6
GATOR FORE (DLFPS-236/3544)	5.7	5.3	6.7	5.3	5.0	5.6
GRAY WOLF (PST-2GAL)	6.0	5.3	5.7	5.3	5.7	5.6
JR-123	6.3	4.0	7.0	5.3	5.3	5.6
MENSA	5.3	5.0	6.7	6.0	5.0	5.6
SLIDER LS (PPG-PR 241)	4.7	5.3	7.0	5.7	5.3	5.6
PST-2EGAD	5.7	5.3	6.3	5.3	5.3	5.6
LPB-SD-103	6.0	4.7	6.7	5.3	5.0	5.5
SUPERSTAR GL (PPG-PR 420)	6.7	5.3	6.0	5.3	4.3	5.5
PR-6-15	6.7	5.0	6.7	4.3	5.0	5.5
APR3060	6.0	4.7	7.0	5.0	4.7	5.5

TABLE 29. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017 DATA

NAME	CA7	IA1	KS1	KY1	MO1	MEAN
	SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/					
SR 4700 (DLFPS-236/3543)	5.7	4.0	6.7	5.7	5.3	5.5
PST-2MAY	7.0	4.3	.	5.3	5.0	5.4
HELIOS (DLFPS-236/3538)	5.0	5.0	5.7	5.7	5.7	5.4
SAGUARO	5.0	4.7	6.0	6.0	5.3	5.4
02BS1	6.3	6.0	5.0	5.3	4.3	5.4
GATOR CINCO (DLFPS-236/3548)	6.3	4.0	6.3	6.0	4.3	5.4
DLFPS-236/3550	6.3	3.3	6.7	6.3	4.3	5.4
DLFPS-236/3552	6.7	3.7	5.7	5.7	5.0	5.3
STARBRIGHT GLX (PST-2BDT)	5.0	5.7	6.3	5.0	4.7	5.3
IVY (PST-2GTD)	5.7	4.0	6.7	5.3	4.7	5.3
BAR LP 6165	6.7	3.7	6.0	5.0	4.3	5.1
APR2612	5.7	3.7	6.3	4.7	5.0	5.1
BAR LP 6162	6.7	3.0	5.7	5.7	4.3	5.1
LPB-SD-104	4.7	4.3	6.0	5.3	5.0	5.1
LPB-SD-105	4.7	5.3	6.3	5.0	4.0	5.1
RAD-PR 112	6.7	3.3	5.7	4.7	4.7	5.0
PST-2FOXY	5.3	3.3	6.0	5.3	5.0	5.0
SILVER SPORT (PST-2CRP)	5.3	3.7	6.7	5.0	4.0	4.9
DLFPS-238/3014	5.0	4.0	6.3	5.0	4.3	4.9
DLFPS-236/3546	4.3	3.3	7.0	5.0	4.7	4.9
KARMA	5.0	4.3	.	5.3	4.3	4.8
LINN	6.3	3.7	4.7	4.3	4.0	4.6
PEPPER 11 (RAD-PR 103)	4.0	3.0	5.7	5.0	5.0	4.5
LSD VALUE	2.1	1.8	1.2	1.4	1.4	0.7
C.V. (%)	21.1	20.5	11.2	15.5	16.2	17.1

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

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

TABLE 30. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MO1	ND1	VA1	MEAN
ELEKTRA GLR (PPG-PR 371)	85.1	43.3	99.0	89.4
HELIOS (DLFPS-236/3538)	81.1	40.0	98.4	86.9
SEABISCUIT	77.3	43.3	98.4	85.9
PPG-PR 370	79.1	25.0	99.0	85.9
BAR LP 6233	78.5	31.7	99.0	85.8
SUNBURST (02BS2)	79.5	35.0	97.5	85.8
PPG-PR 422	76.7	40.0	99.0	85.5
PR-5-16	78.9	21.7	99.0	85.4
PST-2FOXY	76.4	40.0	99.0	85.3
DLFPS-236/3553	78.5	35.0	98.1	85.3
PST-2MAY	78.2	25.0	98.4	85.1
PARAGON 2 GLR (FP2)	78.5	26.7	98.4	85.0
FIESTA CINCO (DLFPS-236/3554)	76.7	30.0	99.0	84.9
APR3060	75.7	35.0	99.0	84.8
NP-3	77.3	18.3	99.0	84.8
PALMER SUPREME (PPG-PR 421)	77.7	26.7	97.7	84.8
PPG-PR 372	75.1	31.7	99.0	84.8
FASTBALL 3GL (PPG-PR 329)	79.6	11.7	98.4	84.8
FURLONG (LTP-FCB)	79.9	1.7	99.0	84.7
SILVER SPORT (PST-2CRP)	75.9	30.0	99.0	84.6
DLFPS-236/3552	76.7	25.0	98.1	84.5
BAR LP 6164	75.1	33.3	99.0	84.5
JR-123	78.9	23.3	97.8	84.5
APPLE 3GL (PPG-PR 339)	78.3	18.3	97.8	84.4
GATOR FORE (DLFPS-236/3544)	76.8	25.0	99.0	84.4
SHIELD (02BS4)	77.7	23.3	97.8	84.4
GATOR CINCO (DLFPS-236/3548)	78.2	18.3	97.5	84.3
PL2	77.6	13.3	99.0	84.3
DLFPS-236/3546	78.1	21.7	97.2	84.3
SUPERSTAR GL (PPG-PR 420)	77.3	26.7	97.4	84.2
CAYMAN (GO-143)	73.1	48.3	97.8	84.2
PORTFOLIO (PPG-PR 423)	73.1	53.3	97.2	84.1
PEPPER II (RAD-PR 103)	77.0	11.7	99.0	84.1
NP-2	74.6	31.7	99.0	84.1
HOMERUN LS (PPG-PR 419)	76.1	28.3	98.4	84.0
IVY (PST-2GTD)	71.9	50.0	99.0	84.0
SLIDER LS (PPG-PR 241)	73.8	36.7	98.1	84.0
DLFPS-238/3014	76.8	10.0	99.0	83.8
GRAY WOLF (PST-2GAL)	75.8	18.3	99.0	83.8
SLUGGER 3GL (PPG-PR 343)	76.1	15.0	99.0	83.8
ASP0218 (A-6D)	75.3	23.3	98.4	83.6
PPG-PR 385	76.3	18.3	98.4	83.6
NEXUS GT (SNX)	73.3	41.7	97.8	83.5
BAR LP 6117	78.4	0.0	98.1	83.5
EVOLVE	73.3	33.3	99.0	83.4
BAR LP 6158	74.7	16.7	99.0	83.3

TABLE 30. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-21 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MO1	ND1	VA1	MEAN
SPIKE GLS (UF3)	73.8	30.0	98.1	83.2
021	73.4	26.7	99.0	83.2
STARBRIGHT GLX (PST-2BDT)	74.0	28.3	97.8	83.2
XCELERATOR	73.1	30.0	98.4	83.2
MYSTIQUE (DLFPS-236/3547)	74.2	21.7	99.0	83.1
GREEN SUPREME+ (AMP-R1)	69.5	48.3	99.0	83.0
DLFPS-236/3556	73.6	21.7	98.4	82.9
BAR LP 6162	73.1	18.3	99.0	82.9
BAR LP 6165	70.1	43.3	99.0	82.8
ALLOY (RRT)	74.4	21.7	97.7	82.8
PARADOX GLR (PPG-PR 331)	73.5	40.0	96.8	82.7
ASP0117 (A-PR15)	72.3	23.3	99.0	82.5
PHARAOH	69.8	38.3	99.0	82.4
JR-888	73.7	10.0	99.0	82.3
DLFPS-236/3550	71.6	23.3	99.0	82.2
ASP0118GL (A-4G)	71.8	18.3	99.0	82.2
PPG-PR 367	67.7	53.3	99.0	82.1
RAD-PR 112	69.0	45.0	98.4	82.1
CATALYST (023)	73.0	11.7	99.0	82.1
PPG-PR 360	73.6	23.3	96.8	81.9
BAR LP 6131	73.3	10.0	98.4	81.9
ZOOM 2 (DLFPS-236/3545)	72.8	10.0	99.0	81.8
STELLAR 4GL (PPG-PR 424)	74.1	6.7	98.4	81.8
CPN	72.1	11.7	99.0	81.8
BAR LP 6159	73.5	11.7	97.7	81.6
REVENGE 2GLX (JR-197)	71.9	20.0	98.1	81.5
SIGNET	71.3	10.0	99.0	81.2
PST-2EGAD	70.5	21.7	98.4	81.0
APR2616	69.6	18.3	99.0	81.0
GRAND SLAM GLD	71.3	8.3	99.0	80.8
02BS1	69.7	13.3	99.0	80.6
TEE-ME-UP (BSP-25)	66.5	31.7	98.7	80.4
GRAY HAWK (PST-2FIND)	69.7	20.0	98.1	80.3
MRSL-PR16	70.3	0.0	98.4	80.1
FIREBALL (BWH)	68.7	21.7	96.5	79.8
ALLSTAR FORE (DLFPS-236/3541)	66.9	33.3	97.1	79.7
UMPQUA	64.1	40.0	99.0	79.7
APR2612	67.1	26.7	97.5	79.7
DLFPS-236/3540	70.0	8.3	97.1	79.6
HATRICK (BSP-17)	73.5	16.7	91.9	79.5
CS-6	64.8	30.0	98.1	79.1
PR-6-15	64.8	20.0	99.0	79.0
SR 4700 (DLFPS-236/3543)	68.6	10.0	97.1	78.8
PST-2PDA	65.3	26.7	98.4	78.8
KARMA	67.5	5.0	98.1	78.5
DERBY XTREME	67.7	15.0	96.2	78.4

TABLE 30. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-21 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MO1	ND1	VA1	MEAN
BRIGHTSTAR SLT	71.5	15.0	92.6	78.3
OVERDRIVE 5G	67.3	11.7	96.8	78.2
MIGHTIER (DLFPS-236/3542)	68.9	5.0	96.2	78.2
ALLSTAR III	63.0	30.0	97.5	77.7
SR 4650	64.3	6.7	99.0	77.6
MRSL-PR15	65.8	11.7	96.8	77.6
SAGUARO	65.0	5.0	98.4	77.5
ASP0116EXT	62.8	10.0	98.1	76.9
GO-141	59.5	28.3	99.0	76.7
MENSA	62.7	5.0	97.8	76.2
SWIFT (PST-2A2)	58.0	33.3	98.1	75.8
INTENSE	60.3	3.3	98.7	75.2
LPB-SD-105	60.0	33.3	94.0	75.0
BELIZE 2 (GO-142)	58.9	16.7	96.5	74.4
SAVANT	63.8	1.7	93.4	74.3
JR-747	58.0	5.0	97.1	73.9
MAN O WAR	56.3	6.7	98.1	73.3
LPB-SD-102	53.3	13.3	98.1	72.4
LPB-SD-101	52.9	1.7	97.7	71.3
LPB-SD-103	45.3	23.3	96.6	68.6
LPB-SD-104	47.7	5.0	95.2	67.6
LINN	61.3	3.3	76.5	64.6
LSD VALUE	17.3	5.8	6.0	8.7
C.V. (%)	17.4	16.0	3.8	10.2

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 31. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	ND1	NAME	ND1	NAME	ND1
LPB-SD-105	60.0	DLFPS-236/3552	30.0	SLUGGER 3GL (PPG-PR 343)	16.7
CAYMAN (GO-143)	55.0	FIESTA CINCO (DLFPS-236/3554)	30.0	BRIGHTSTAR SLT	15.0
PPG-PR 367	55.0	GATOR FORE (DLFPS-236/3544)	30.0	02BS1	13.3
PORTFOLIO (PPG-PR 423)	53.3	JR-123	30.0	PEPPER II (RAD-PR 103)	13.3
GREEN SUPREME+ (AMP-R1)	51.7	SILVER SPORT (PST-2CRP)	30.0	PL2	13.3
IVY (PST-2GTD)	51.7	ASP0117 (A-PR15)	28.3	SR 4700 (DLFPS-236/3543)	13.3
ELEKTRA GLR (PPG-PR 371)	48.3	HATRICK (BSP-17)	28.3	ZOOM 2 (DLFPS-236/3545)	13.3
RAD-PR 112	45.0	STARBRIGHT GLX (PST-2BDT)	28.3	BAR LP 6159	11.7
TEE-ME-UP (BSP-25)	45.0	ASP0218 (A-6D)	26.7	CATALYST (023)	11.7
021	43.3	DLFPS-236/3546	26.7	CPN	11.7
BAR LP 6165	43.3	DLFPS-236/3556	26.7	FASTBALL 3GL (PPG-PR 329)	11.7
HELIOS (DLFPS-236/3538)	43.3	PPG-PR 360	26.7	JR-888	11.7
NEXUS GT (SNX)	43.3	PALMER SUPREME (PPG-PR 421)	26.7	MRSL-PR15	11.7
PARADOX GLR (PPG-PR 331)	43.3	PST-2PDA	26.7	OVERDRIVE 5G	11.7
SEABISCUIT	43.3	SHIELD (02BS4)	26.7	ASP0116EXT	10.0
APR3060	41.7	SUPERSTAR GL (PPG-PR 420)	26.7	BAR LP 6131	10.0
PPG-PR 422	40.0	MYSTIQUE (DLFPS-236/3547)	25.0	DLFPS-236/3540	10.0
PST-2FOXY	40.0	PPG-PR 370	25.0	DLFPS-238/3014	10.0
SLIDER LS (PPG-PR 241)	40.0	PR-6-15	25.0	SIGNET	10.0
UMPQUA	40.0	PST-2MAY	25.0	GRAND SLAM GLD	8.3
EVOLVE	38.3	ALLOY (RRT)	23.3	MAN O WAR	6.7
PHARAOH	38.3	ASP0118GL (A-4G)	23.3	MENSA	6.7
ALLSTAR FORE (DLFPS-236/3541)	36.7	BELIZE 2 (GO-142)	23.3	SAGUARO	6.7
PPG-PR 372	36.7	FIREBALL (BWH)	23.3	SR 4650	6.7
SUNBURST (02BS2)	36.7	BAR LP 6233	21.7	STELLAR 4GL (PPG-PR 424)	6.7
CS-6	35.0	GATOR CINCO (DLFPS-236/3548)	21.7	JR-747	5.0
DLFPS-236/3553	35.0	NP-3	21.7	KARMA	5.0
NP-2	35.0	PPG-PR 385	21.7	LPB-SD-104	5.0
SPIKE GLS (UF3)	35.0	PR-5-16	21.7	MIGHTIER (DLFPS-236/3542)	5.0
SWIFT (PST-2A2)	35.0	PST-2EGAD	21.7	INTENSE	3.3
XCELERATOR	35.0	APPLE 3GL (PPG-PR 339)	20.0	LINN	3.3
BAR LP 6164	33.3	APR2616	20.0	FURLONG (LTP-FCB)	1.7
GO-141	33.3	DERBY XTREME	20.0	LPB-SD-101	1.7
LPB-SD-103	33.3	GRAY HAWK (PST-2FIND)	20.0	SAVANT	1.7
ALLSTAR III	31.7	REVENGE 2GLX (JR-197)	20.0	BAR LP 6117	0.0
APR2612	31.7	BAR LP 6162	18.3	MRSL-PR16	0.0
HOMERUN LS (PPG-PR 419)	31.7	GRAY WOLF (PST-2GAL)	18.3		
PARAGON 2 GLR (FP2)	31.7	BAR LP 6158	16.7	LSD VALUE	6.9
DLFPS-236/3550	30.0	LPB-SD-102	16.7	C.V. (%)	17.2

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 32. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-21 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MO1	ND1	VA1	MEAN
HELIOS (DLFPS-236/3538)	90.7	45.0	99.0	91.2
PPG-PR 422	89.0	45.0	99.0	91.0
XCELERATOR	94.0	41.7	98.7	90.9
PPG-PR 367	86.7	60.0	96.6	90.2
PORTFOLIO (PPG-PR 423)	87.3	55.0	96.6	89.6
HOMERUN LS (PPG-PR 419)	88.3	35.0	98.7	89.3
ASP0218 (A-6D)	88.0	31.7	99.0	89.2
021	81.7	56.7	96.6	89.1
APR3060	90.0	48.3	96.6	89.1
ELEKTRA GLR (PPG-PR 371)	86.7	51.7	96.6	89.1
BAR LP 6165	75.0	45.0	98.7	88.9
IVY (PST-2GTD)	83.3	51.7	96.6	88.7
PPG-PR 372	91.3	43.3	96.6	88.7
SUPERSTAR GL (PPG-PR 420)	88.3	30.0	98.3	88.4
PR-6-15	76.7	31.7	99.0	87.8
MYSTIQUE (DLFPS-236/3547)	87.3	31.7	97.4	87.5
NEXUS GT (SNX)	75.0	46.7	96.6	87.0
SLUGGER 3GL (PPG-PR 343)	82.3	20.0	99.0	87.0
BAR LP 6164	86.3	35.0	96.6	87.0
PPG-PR 370	89.0	30.0	96.6	86.7
REVENGE 2GLX (JR-197)	80.0	21.7	98.7	86.6
TEE-ME-UP (BSP-25)	76.7	61.7	93.8	86.5
PPG-PR 385	87.3	23.3	97.4	86.5
CAYMAN (GO-143)	77.3	58.3	94.2	86.4
APPLE 3GL (PPG-PR 339)	90.7	25.0	96.6	86.3
PALMER SUPREME (PPG-PR 421)	86.3	28.3	96.6	86.2
STELLAR 4GL (PPG-PR 424)	90.7	6.7	98.7	86.1
BAR LP 6233	90.0	36.7	95.0	86.1
GO-141	60.0	36.7	98.7	86.0
CPN	81.7	11.7	99.0	85.9
GREEN SUPREME+ (AMP-R1)	78.3	53.3	94.2	85.9
FIREBALL (BWH)	80.0	40.0	94.7	85.7
PR-5-16	89.0	21.7	96.6	85.7
SPIKE GLS (UF3)	73.3	43.3	95.8	85.6
ALLSTAR FORE (DLFPS-236/3541)	72.3	41.7	95.4	85.5
DLFPS-236/3556	78.3	36.7	95.8	85.4
DLFPS-236/3550	76.7	33.3	96.3	85.3
EVOLVE	73.3	46.7	95.0	85.3
APR2616	81.7	25.0	96.6	85.2
OVERDRIVE 5G	78.3	11.7	98.7	85.2
GRAY WOLF (PST-2GAL)	88.0	18.3	96.6	85.1
PHARAOH	87.3	38.3	94.2	85.1
GATOR FORE (DLFPS-236/3544)	90.0	35.0	94.2	85.0
BELIZE 2 (GO-142)	68.3	30.0	97.4	85.0
CS-6	71.7	40.0	95.8	85.0
RAD-PR 112	76.7	46.7	94.2	84.8

TABLE 32. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-21 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MO1	ND1	VA1	MEAN
FIESTA CINCO (DLFPS-236/3554)	90.7	31.7	94.2	84.7
PST-2FOXY	88.3	43.3	93.0	84.7
GATOR CINCO (DLFPS-236/3548)	91.7	23.3	95.0	84.6
SLIDER LS (PPG-PR 241)	86.7	41.7	93.3	84.6
UMPQUA	71.7	41.7	95.0	84.4
DLFPS-236/3552	93.0	33.3	93.3	84.4
02BS1	81.7	15.0	96.7	84.0
NP-2	75.7	40.0	94.2	83.9
PST-2MAY	89.7	25.0	94.2	83.8
GRAY HAWK (PST-2FIND)	85.0	21.7	95.0	83.6
STARBRIGHT GLX (PST-2BDT)	75.0	31.7	95.0	83.6
DLFPS-236/3553	91.7	40.0	91.8	83.5
FURLONG (LTP-FCB)	84.7	1.7	97.4	83.5
PL2	86.3	13.3	95.8	83.5
PARADOX GLR (PPG-PR 331)	71.7	46.7	93.3	83.4
PEPPER II (RAD-PR 103)	85.7	15.0	95.4	83.3
SR 4700 (DLFPS-236/3543)	81.7	13.3	95.4	83.1
BAR LP 6162	71.7	18.3	96.6	83.1
ALLOY (RRT)	81.7	26.7	94.2	83.0
ASP0118GL (A-4G)	86.3	28.3	93.3	82.9
SEABISCUIT	90.0	43.3	90.9	82.8
BAR LP 6131	80.0	10.0	96.3	82.8
PST-2EGAD	83.3	23.3	94.2	82.8
ASP0116EXT	75.0	11.7	96.6	82.7
BAR LP 6117	86.7	0.0	96.6	82.7
CATALYST (023)	85.0	13.3	95.0	82.5
PST-2PDA	80.0	31.7	93.3	82.5
APR2612	77.3	38.3	92.2	82.5
SUNBURST (02BS2)	88.0	41.7	90.9	82.4
SWIFT (PST-2A2)	68.3	35.0	94.2	82.3
LPB-SD-105	51.7	75.0	89.5	82.3
JR-123	87.3	33.3	91.8	82.1
MIGHTIER (DLFPS-236/3542)	80.0	8.3	95.8	82.0
FASTBALL 3GL (PPG-PR 329)	79.0	15.0	95.0	82.0
PPG-PR 360	80.0	31.7	92.2	82.0
GRAND SLAM GLD	75.0	8.3	96.3	81.9
SHIELD (02BS4)	85.0	33.3	91.8	81.8
BAR LP 6158	87.3	18.3	93.0	81.5
SILVER SPORT (PST-2CRP)	84.0	31.7	91.8	81.5
DLFPS-238/3014	86.7	11.7	93.8	81.4
PARAGON 2 GLR (FP2)	86.7	35.0	90.9	81.4
DLFPS-236/3546	94.0	26.7	90.9	81.3
MRSL-PR16	75.0	0.0	96.6	81.2
ASP0117 (A-PR15)	82.3	30.0	91.8	81.0
NP-3	80.7	28.3	91.8	80.6
MRSL-PR15	84.0	15.0	92.2	80.4

TABLE 32. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-21 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MO1	ND1	VA1	MEAN
SIGNET	81.7	11.7	93.3	80.3
ZOOM 2 (DLFPS-236/3545)	73.3	13.3	94.2	80.3
ALLSTAR III	66.7	31.7	92.5	80.0
BAR LP 6159	81.7	11.7	93.0	79.9
INTENSE	51.7	5.0	97.4	79.8
DLFPS-236/3540	71.7	15.0	93.3	79.4
JR-888	81.7	15.0	91.8	79.1
HATRICK (BSP-17)	86.7	40.0	86.1	78.6
LPB-SD-103	50.0	36.7	91.4	78.1
SAGUARO	66.7	8.3	93.3	78.0
DERBY XTREME	76.7	23.3	90.1	77.8
SR 4650	66.7	6.7	93.0	77.4
LPB-SD-102	63.3	30.0	89.8	77.3
MENSA	75.0	6.7	91.8	77.2
KARMA	70.0	5.0	91.8	77.0
LPB-SD-104	61.7	6.7	91.0	76.4
MAN O WAR	65.7	6.7	91.8	76.0
JR-747	51.7	5.0	93.0	75.9
LPB-SD-101	55.0	1.7	93.4	75.8
SAVANT	70.0	1.7	88.3	74.2
BRIGHTSTAR SLT	68.3	16.7	85.3	73.5
LINN	45.0	3.3	62.8	55.9
LSD VALUE	17.2	6.7	10.2	10.2
C.V. (%)	13.5	14.8	7.2	8.9

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 33. STEM RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

STEM RUST RATINGS 1-9; 9=NO DISEASE 2/

NAME	MO1	NAME	MO1	NAME	MO1
DLFPS-236/3546	9.0	SR 4700 (DLFPS-236/3543)	7.7	PR-5-16	5.7
FURLONG (LTP-FCB)	9.0	UMPQUA	7.7	RAD-PR 112	5.7
HOMERUN LS (PPG-PR 419)	9.0	APR2612	7.3	APR2616	5.3
MAN O WAR	9.0	ASP0117 (A-PR15)	7.3	APR3060	5.3
PST-2MAY	9.0	GRAY HAWK (PST-2FIND)	7.3	BAR LP 6165	5.3
SILVER SPORT (PST-2CRP)	9.0	GRAY WOLF (PST-2GAL)	7.3	INTENSE	5.3
SPIKE GLS (UF3)	9.0	PARADOX GLR (PPG-PR 331)	7.3	JR-888	5.3
SUNBURST (02BS2)	9.0	SWIFT (PST-2A2)	7.3	KARMA	5.3
ZOOM 2 (DLFPS-236/3545)	9.0	021	7.0	SIGNET	5.3
DLFPS-236/3553	8.7	ALLSTAR FORE (DLFPS-236/3541)	7.0	JR-747	5.0
FASTBALL 3GL (PPG-PR 329)	8.7	ASP0218 (A-6D)	7.0	LINN	5.0
GATOR FORE (DLFPS-236/3544)	8.7	CATALYST (023)	7.0	ASP0116EXT	4.7
MYSTIQUE (DLFPS-236/3547)	8.7	DLFPS-238/3014	7.0	EVOLVE	4.7
PARAGON 2 GLR (FP2)	8.7	REVENGE 2GLX (JR-197)	7.0	BAR LP 6164	4.3
PL2	8.7	PPG-PR 372	7.0	DLFPS-236/3540	4.3
PPG-PR 367	8.7	PPG-PR 385	7.0	FIREBALL (BWH)	4.3
PALMER SUPREME (PPG-PR 421)	8.7	SAVANT	7.0	GREEN SUPREME+ (AMP-R1)	4.3
PPG-PR 422	8.7	SHIELD (02BS4)	7.0	PEPPER II (RAD-PR 103)	4.3
PR-6-15	8.7	02BS1	6.7	BAR LP 6117	4.0
PST-2EGAD	8.7	APPLE 3GL (PPG-PR 339)	6.7	DLFPS-236/3550	4.0
SLIDER LS (PPG-PR 241)	8.7	FIESTA CINCO (DLFPS-236/3554)	6.7	NEXUS GT (SNX)	4.0
ALLOY (RRT)	8.3	GATOR CINCO (DLFPS-236/3548)	6.7	TEE-ME-UP (BSP-25)	4.0
DLFPS-236/3556	8.3	HATRICK (BSP-17)	6.7	BAR LP 6233	3.7
GRAND SLAM GLD	8.3	HELIOS (DLFPS-236/3538)	6.7	BAR LP 6159	3.3
PPG-PR 370	8.3	LPB-SD-102	6.7	ALLSTAR III	3.0
CPN	8.0	LPB-SD-104	6.7	BELIZE 2 (GO-142)	3.0
IVY (PST-2GTD)	8.0	OVERDRIVE 5G	6.7	BRIGHTSTAR SLT	3.0
MIGHTIER (DLFPS-236/3542)	8.0	PHARAOH	6.7	DERBY XTREME	3.0
PORTFOLIO (PPG-PR 423)	8.0	SR 4650	6.7	LPB-SD-101	3.0
STARBRIGHT GLX (PST-2BDT)	8.0	LPB-SD-105	6.3	SAGUARO	3.0
SUPERSTAR GL (PPG-PR 420)	8.0	MRSL-PR16	6.3	BAR LP 6131	2.7
XCELERATOR	8.0	SEABISCUIT	6.3	BAR LP 6158	2.7
DLFPS-236/3552	7.7	STELLAR 4GL (PPG-PR 424)	6.0	BAR LP 6162	2.7
JR-123	7.7	ASP0118GL (A-4G)	5.7	GO-141	2.7
NP-2	7.7	CS-6	5.7	PST-2PDA	2.7
NP-3	7.7	LPB-SD-103	5.7	CAYMAN (GO-143)	2.3
ELEKTRA GLR (PPG-PR 371)	7.7	MENSA	5.7		
PST-2FOXY	7.7	MRSL-PR15	5.7	LSD VALUE	3.0
SLUGGER 3GL (PPG-PR 343)	7.7	PPG-PR 360	5.7	C.V. (%)	29.1

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 34. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2018-2019 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	MD1	MO1	MEAN	NAME	MD1	MO1	MEAN
MENSA	7.8	8.5	8.2	BRIGHTSTAR SLT	6.5	8.3	7.3
ALLSTAR FORE (DLFPS-236/3541)	6.8	9.0	7.9	DERBY XTREME	6.5	8.2	7.3
FURLONG (LTP-FCB)	6.8	8.8	7.9	DLFPS-236/3546	6.5	7.7	7.3
BAR LP 6162	7.2	8.7	7.8	DLFPS-238/3014	5.8	8.8	7.3
TEE-ME-UP (BSP-25)	7.0	8.8	7.8	REVENGE 2GLX (JR-197)	6.5	7.8	7.3
GO-141	6.8	8.8	7.8	LINN	5.7	8.2	7.3
SR 4700 (DLFPS-236/3543)	6.8	8.8	7.8	LPB-SD-103	5.8	8.7	7.3
LPB-SD-101	6.8	8.7	7.7	MIGHTIER (DLFPS-236/3542)	6.3	8.5	7.3
PR-6-15	6.8	8.7	7.7	PPG-PR 422	6.2	8.7	7.3
APR2616	6.2	9.0	7.7	PORTFOLIO (PPG-PR 423)	6.0	8.8	7.3
GRAND SLAM GLD	6.7	8.8	7.7	BELIZE 2 (GO-142)	6.0	8.7	7.3
PL2	7.2	8.7	7.7	CS-6	5.5	8.8	7.3
SAVANT	6.7	8.7	7.7	DLFPS-236/3552	5.8	8.7	7.3
SLUGGER 3GL (PPG-PR 343)	6.2	9.0	7.7	INTENSE	6.3	8.5	7.3
XCELERATOR	6.5	8.8	7.7	NP-2	6.3	8.2	7.3
DLFPS-236/3556	6.8	8.7	7.6	SEABISCUIT	6.2	8.2	7.3
GATOR CINCO (DLFPS-236/3548)	6.5	8.7	7.6	SUPERSTAR GL (PPG-PR 420)	6.7	7.2	7.3
JR-123	7.0	8.3	7.6	SWIFT (PST-2A2)	5.5	8.8	7.3
PPG-PR 367	6.7	8.7	7.6	ASP0117 (A-PR15)	6.2	8.7	7.3
PALMER SUPREME (PPG-PR 421)	7.0	8.0	7.6	02BS1	5.8	8.7	7.2
SILVER SPORT (PST-2CRP)	6.3	8.7	7.6	GRAY WOLF (PST-2GAL)	5.8	8.3	7.2
JR-747	6.5	8.5	7.6	HELIOS (DLFPS-236/3538)	6.3	7.3	7.2
PPG-PR 372	5.8	9.0	7.6	STELLAR 4GL (PPG-PR 424)	6.2	8.3	7.2
021	6.7	8.7	7.6	FIESTA CINCO (DLFPS-236/3554)	6.3	7.5	7.2
FASTBALL 3GL (PPG-PR 329)	6.5	8.5	7.6	PR-5-16	5.7	8.3	7.2
LPB-SD-104	6.5	8.7	7.6	SUNBURST (02BS2)	6.5	7.7	7.2
SHIELD (02BS4)	6.3	8.8	7.6	ASP0118GL (A-4G)	5.5	8.8	7.2
ALLOY (RRT)	6.5	8.2	7.5	FIREBALL (BWH)	6.2	7.8	7.2
DLFPS-236/3550	6.2	8.8	7.5	MAN O WAR	5.3	8.8	7.2
LPB-SD-102	6.5	8.5	7.5	PEPPER II (RAD-PR 103)	6.3	7.3	7.2
PPG-PR 360	6.2	8.3	7.4	RAD-PR 112	5.5	8.7	7.2
SIGNET	6.3	8.5	7.4	APPLE 3GL (PPG-PR 339)	5.3	9.0	7.1
SPIKE GLS (UF3)	6.8	8.0	7.4	HATRICK (BSP-17)	6.0	8.3	7.1
MYSTIQUE (DLFPS-236/3547)	6.7	7.8	7.4	DLFPS-236/3540	6.2	8.2	7.1
ZOOM 2 (DLFPS-236/3545)	6.7	8.5	7.4	MRSL-PR15	5.8	8.5	7.1
BAR LP 6164	5.8	9.0	7.4	PST-2MAY	5.3	8.3	7.1
JR-888	6.8	8.0	7.4	SR 4650	5.8	8.2	7.1
LPB-SD-105	6.8	7.5	7.4	APR2612	5.3	8.8	7.1
MRSL-PR16	6.3	8.7	7.4	CAYMAN (GO-143)	5.5	8.7	7.1
BAR LP 6117	5.8	8.8	7.4	GREEN SUPREME+ (AMP-R1)	4.8	8.8	7.1
SLIDER LS (PPG-PR 241)	6.0	8.7	7.4	IVY (PST-2GTD)	5.5	8.7	7.1
ASP0116EXT	6.3	8.7	7.3	PARAGON 2 GLR (FP2)	5.7	7.8	7.1
ASP0218 (A-6D)	5.3	8.8	7.3	EVOLVE	5.7	8.5	7.0
BAR LP 6131	5.8	8.8	7.3	GATOR FORE (DLFPS-236/3544)	6.2	8.0	7.0
BAR LP 6233	5.8	8.5	7.3	KARMA	5.3	8.5	7.0

TABLE 34. (CONT'D) RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2018-2019 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	MD1	MO1	MEAN
NP-3	5.3	8.7	7.0
ELEKTRA GLR (PPG-PR 371)	6.2	7.2	7.0
PST-2FOXY	5.3	8.0	7.0
SAGUARO	5.8	7.8	7.0
STARBRIGHT GLX (PST-2BDT)	5.2	8.5	7.0
UMPQUA	5.2	8.7	7.0
CPN	5.2	8.7	6.9
DLFPS-236/3553	5.5	7.7	6.9
OVERDRIVE 5G	5.5	8.7	6.9
PPG-PR 370	6.0	7.3	6.9
APR3060	5.2	8.7	6.9
PPG-PR 385	5.5	7.8	6.8
ALLSTAR III	5.3	7.8	6.8
NEXUS GT (SNX)	5.3	8.5	6.8
BAR LP 6158	4.7	8.5	6.8
CATALYST (023)	5.7	8.2	6.8
HOMERUN LS (PPG-PR 419)	5.2	8.3	6.7
PHARAOH	5.2	8.3	6.7
BAR LP 6159	4.5	8.7	6.6
PST-2EGAD	4.7	8.5	6.6
PARADOX GLR (PPG-PR 331)	4.8	8.2	6.6
PST-2PDA	4.7	8.5	6.6
GRAY HAWK (PST-2FIND)	4.0	8.8	6.4
BAR LP 6165	3.7	8.5	6.2
LSD VALUE	1.8	1.6	1.4
C.V. (%)	19.3	11.6	13.8

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 35. BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	MO1	MEAN	NAME	MN1	MO1	MEAN
PR-6-15	7.3	8.3	7.8	021	5.7	7.3	6.5
SPIKE GLS (UF3)	7.0	8.7	7.8	ALLOY (RRT)	5.0	8.0	6.5
FURLONG (LTP-FCB)	6.3	9.0	7.7	BAR LP 6165	5.3	7.7	6.5
DLFPS-236/3546	6.7	8.3	7.5	FIESTA CINCO (DLFPS-236/3554)	5.0	8.0	6.5
PPG-PR 422	6.7	8.3	7.5	HOMERUN LS (PPG-PR 419)	6.0	7.0	6.5
DLFPS-236/3553	6.7	8.0	7.3	LPB-SD-103	5.0	8.0	6.5
PARAGON 2 GLR (FP2)	6.7	8.0	7.3	MRSL-PR15	5.3	7.7	6.5
PPG-PR 367	6.7	8.0	7.3	MRSL-PR16	5.3	7.7	6.5
OVERDRIVE 5G	6.0	8.3	7.2	SLIDER LS (PPG-PR 241)	5.0	8.0	6.5
PL2	6.7	7.7	7.2	SWIFT (PST-2A2)	5.0	8.0	6.5
SUNBURST (02BS2)	6.7	7.7	7.2	CS-6	4.7	8.0	6.3
PORTFOLIO (PPG-PR 423)	6.3	8.0	7.2	IVY (PST-2GTD)	4.7	8.0	6.3
ALLSTAR FORE (DLFPS-236/3541)	5.3	8.7	7.0	JR-123	5.0	7.7	6.3
ASP0117 (A-PR15)	5.7	8.3	7.0	PHARAOH	5.0	7.7	6.3
ASP0118GL (A-4G)	6.3	7.7	7.0	PALMER SUPREME (PPG-PR 421)	4.7	8.0	6.3
GATOR FORE (DLFPS-236/3544)	6.3	7.7	7.0	PR-5-16	4.7	8.0	6.3
GRAY WOLF (PST-2GAL)	6.3	7.7	7.0	SIGNET	5.7	7.0	6.3
LPB-SD-105	6.0	8.0	7.0	SR 4650	5.7	7.0	6.3
MYSTIQUE (DLFPS-236/3547)	5.3	8.7	7.0	STARBRIGHT GLX (PST-2BDT)	4.7	8.0	6.3
NP-2	6.0	8.0	7.0	02BS1	5.3	7.3	6.3
PST-2MAY	5.7	8.3	7.0	APR2612	5.3	7.3	6.3
UMPQUA	6.7	7.3	7.0	BAR LP 6162	5.3	7.3	6.3
XCELERATOR	6.3	7.7	7.0	CPN	5.3	7.3	6.3
ZOOM 2 (DLFPS-236/3545)	6.7	7.3	7.0	DLFPS-236/3550	5.3	7.3	6.3
APR2616	5.7	8.0	6.8	SAVANT	5.3	7.3	6.3
APR3060	6.0	7.7	6.8	ASP0116EXT	4.7	7.7	6.2
CAYMAN (GO-143)	5.7	8.0	6.8	GATOR CINCO (DLFPS-236/3548)	4.7	7.7	6.2
DLFPS-236/3552	5.7	8.0	6.8	HELIOS (DLFPS-236/3538)	4.7	7.7	6.2
REVENGE 2GLX (JR-197)	6.0	7.7	6.8	PPG-PR 360	4.7	7.7	6.2
MIGHTIER (DLFPS-236/3542)	6.0	7.7	6.8	BRIGHTSTAR SLT	5.0	7.3	6.2
NP-3	5.7	8.0	6.8	DERBY XTREME	4.3	8.0	6.2
PPG-PR 372	5.7	8.0	6.8	GRAND SLAM GLD	4.3	8.0	6.2
DLFPS-236/3556	6.3	7.3	6.8	HATRICK (BSP-17)	4.3	8.0	6.2
PARADOX GLR (PPG-PR 331)	5.0	8.3	6.7	JR-888	5.3	7.0	6.2
ELEKTRA GLR (PPG-PR 371)	5.0	8.3	6.7	KARMA	5.0	7.3	6.2
SILVER SPORT (PST-2CRP)	5.7	7.7	6.7	APPLE 3GL (PPG-PR 339)	4.0	8.0	6.0
CATALYST (023)	6.3	7.0	6.7	ASP0218 (A-6D)	4.3	7.7	6.0
FASTBALL 3GL (PPG-PR 329)	5.3	8.0	6.7	DLFPS-236/3540	5.0	7.0	6.0
MAN O WAR	5.3	8.0	6.7	GO-141	4.3	7.7	6.0
PPG-PR 370	5.3	8.0	6.7	GRAY HAWK (PST-2FIND)	4.0	8.0	6.0
SHIELD (02BS4)	5.3	8.0	6.7	INTENSE	4.7	7.3	6.0
SLUGGER 3GL (PPG-PR 343)	5.3	8.0	6.7	LPB-SD-101	4.3	7.7	6.0
SR 4700 (DLFPS-236/3543)	5.3	8.0	6.7	LPB-SD-104	4.0	8.0	6.0
STELLAR 4GL (PPG-PR 424)	6.0	7.3	6.7	MENSA	5.3	6.7	6.0
SUPERSTAR GL (PPG-PR 420)	5.3	8.0	6.7	PST-2EGAD	5.3	6.7	6.0

TABLE 35. BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-2021 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	MO1	MEAN
SEABISCUIT	4.7	7.3	6.0
BAR LP 6233	4.7	7.0	5.8
LPB-SD-102	4.0	7.7	5.8
PPG-PR 385	4.7	7.0	5.8
PST-2FOXY	3.3	8.3	5.8
RAD-PR 112	4.0	7.7	5.8
BAR LP 6117	4.3	7.3	5.8
PEPPER II (RAD-PR 103)	3.7	8.0	5.8
BELIZE 2 (GO-142)	4.7	6.7	5.7
DLFPS-238/3014	3.7	7.7	5.7
NEXUS GT (SNX)	3.7	7.7	5.7
TEE-ME-UP (BSP-25)	3.7	7.7	5.7
EVOLVE	5.0	6.3	5.7
FIREBALL (BWH)	4.0	7.3	5.7
ALLSTAR III	3.7	7.3	5.5
BAR LP 6164	3.7	7.3	5.5
GREEN SUPREME+ (AMP-R1)	4.0	7.0	5.5
PST-2PDA	4.7	6.3	5.5
BAR LP 6131	4.0	6.7	5.3
JR-747	4.0	6.7	5.3
BAR LP 6158	3.0	7.0	5.0
SAGUARO	3.7	6.3	5.0
BAR LP 6159	3.3	6.3	4.8
LINN	2.7	5.7	4.2
LSD VALUE	1.8	1.0	1.4
C.V. (%)	21.8	8.3	15.0

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 36. CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	NJ2	MEAN	NAME	MN1	NJ2	MEAN
FURLONG (LTP-FCB)	7.8	8.3	8.0	PARADOX GLR (PPG-PR 331)	6.0	4.3	5.4
STELLAR 4GL (PPG-PR 424)	7.5	7.7	7.6	SR 4650	5.0	6.3	5.4
MYSTIQUE (DLFPS-236/3547)	7.3	8.0	7.6	GRAND SLAM GLD	6.1	4.0	5.4
DLFPS-236/3546	7.7	7.0	7.4	GRAY HAWK (PST-2FIND)	6.2	3.7	5.3
GATOR FORE (DLFPS-236/3544)	7.7	6.7	7.3	SIGNET	5.5	5.0	5.3
NP-2	7.7	6.7	7.3	SUPERSTAR GL (PPG-PR 420)	5.7	4.7	5.3
PARAGON 2 GLR (FP2)	7.8	6.3	7.3	APPLE 3GL (PPG-PR 339)	5.7	4.3	5.2
SPIKE GLS (UF3)	7.5	7.0	7.3	BAR LP 6233	4.7	6.3	5.2
ZOOM 2 (DLFPS-236/3545)	7.3	7.3	7.3	IVY (PST-2GTD)	6.0	3.7	5.2
DLFPS-236/3553	7.3	7.0	7.2	PPG-PR 370	5.5	4.7	5.2
FASTBALL 3GL (PPG-PR 329)	7.2	7.3	7.2	STARBRIGHT GLX (PST-2BDT)	6.0	3.7	5.2
PPG-PR 367	7.3	7.0	7.2	PPG-PR 372	5.3	4.7	5.1
PL2	7.2	7.0	7.1	PST-2FOXY	5.3	4.7	5.1
HOMERUN LS (PPG-PR 419)	6.7	7.7	7.0	GATOR CINCO (DLFPS-236/3548)	5.3	4.3	5.0
SILVER SPORT (PST-2CRP)	6.7	7.7	7.0	KARMA	5.0	5.0	5.0
CPN	6.5	7.7	6.9	MIGHTIER (DLFPS-236/3542)	5.3	4.3	5.0
MAN O WAR	7.0	6.7	6.9	ALLSTAR FORE (DLFPS-236/3541)	4.8	5.0	4.9
SHIELD (02BS4)	6.7	7.0	6.8	DLFPS-238/3014	4.8	5.0	4.9
DLFPS-236/3556	7.2	5.7	6.7	APR2612	4.8	4.7	4.8
REVENGE 2GLX (JR-197)	6.8	6.3	6.7	ASP0117 (A-PR15)	5.2	3.7	4.7
UMPQUA	6.2	7.7	6.7	FIESTA CINCO (DLFPS-236/3554)	5.2	3.7	4.7
SLUGGER 3GL (PPG-PR 343)	6.7	6.3	6.6	SR 4700 (DLFPS-236/3543)	5.2	3.7	4.7
SUNBURST (02BS2)	6.7	6.0	6.4	LPB-SD-103	5.3	3.0	4.6
NP-3	6.5	6.0	6.3	MENSA	4.3	5.0	4.6
PPG-PR 422	6.7	5.7	6.3	LPB-SD-102	5.3	3.0	4.6
PR-6-15	6.5	5.7	6.2	PST-2PDA	5.3	2.7	4.4
XCELERATOR	6.0	6.7	6.2	APR2616	4.5	4.0	4.3
PHARAOH	6.3	5.7	6.1	GREEN SUPREME+ (AMP-R1)	5.0	3.0	4.3
JR-123	6.7	5.0	6.1	LPB-SD-105	4.7	3.7	4.3
PPG-PR 360	6.5	5.3	6.1	ASP0118GL (A-4G)	5.0	2.7	4.2
021	5.8	6.3	6.0	DLFPS-236/3540	4.2	4.3	4.2
02BS1	6.3	5.3	6.0	PST-2EGAD	5.0	2.7	4.2
CATALYST (023)	5.5	7.0	6.0	APR3060	4.2	4.0	4.1
GRAY WOLF (PST-2GAL)	6.3	5.3	6.0	MRSL-PR16	4.7	3.0	4.1
ELEKTRA GLR (PPG-PR 371)	6.0	6.0	6.0	PR-5-16	4.3	3.7	4.1
OVERDRIVE 5G	6.0	5.7	5.9	SAVANT	4.3	3.7	4.1
SWIFT (PST-2A2)	6.0	5.7	5.9	DLFPS-236/3552	4.7	2.7	4.0
PALMER SUPREME (PPG-PR 421)	6.3	4.7	5.8	BAR LP 6164	4.0	3.7	3.9
SEABISCUIT	5.8	5.7	5.8	DERBY XTREME	4.7	2.3	3.9
INTENSE	6.3	4.7	5.8	DLFPS-236/3550	4.0	3.7	3.9
PORTFOLIO (PPG-PR 423)	5.7	6.0	5.8	RAD-PR 112	4.5	2.7	3.9
PPG-PR 385	5.5	6.0	5.7	FIREBALL (BWH)	4.5	2.3	3.8
PST-2MAY	6.2	4.3	5.6	NEXUS GT (SNX)	4.7	2.0	3.8
SLIDER LS (PPG-PR 241)	6.0	4.7	5.6	ASP0218 (A-6D)	4.3	2.7	3.8
ALLOY (RRT)	6.2	4.3	5.6	BAR LP 6165	2.5	6.3	3.8

TABLE 36. CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-2021 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	NJ2	MEAN
CS-6	4.5	2.3	3.8
EVOLVE	4.5	2.3	3.8
HATRICK (BSP-17)	4.2	3.0	3.8
HELIOS (DLFPS-236/3538)	4.0	3.3	3.8
JR-888	3.7	4.0	3.8
ALLSTAR III	4.3	2.3	3.7
ASP0116EXT	4.5	2.0	3.7
LPB-SD-104	3.7	3.7	3.7
BAR LP 6158	3.8	3.0	3.6
SAGUARO	3.8	3.0	3.6
MRSL-PR15	4.0	2.3	3.4
LINN	3.2	3.7	3.3
BAR LP 6131	3.0	3.3	3.1
JR-747	3.7	2.0	3.1
BAR LP 6159	3.3	2.7	3.1
PEPPER II (RAD-PR 103)	3.3	2.3	3.0
LPB-SD-101	3.0	2.7	2.9
BELIZE 2 (GO-142)	3.0	2.3	2.8
BAR LP 6162	2.2	4.0	2.8
BRIGHTSTAR SLT	2.8	2.7	2.8
TEE-ME-UP (BSP-25)	3.2	2.0	2.8
GO-141	2.8	1.7	2.4
CAYMAN (GO-143)	2.7	2.0	2.4
BAR LP 6117	2.8	1.3	2.3
LSD VALUE	1.6	1.9	1.7
C.V. (%)	19.4	26.2	21.7

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 37. GRAY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ2	NAME	NJ2	NAME	NJ2
KARMA	9.0	SWIFT (PST-2A2)	7.7	BAR LP 6164	4.7
02BS1	8.7	XCELERATOR	7.7	CS-6	4.7
DLFPS-236/3553	8.7	ALLOY (RRT)	7.3	EVOLVE	4.7
REVENGE 2GLX (JR-197)	8.7	ALLSTAR FORE (DLFPS-236/3541)	7.3	GRAND SLAM GLD	4.7
NP-3	8.7	APR2612	7.3	MRSL-PR15	4.7
PORTFOLIO (PPG-PR 423)	8.7	CPN	7.3	PEPPER II (RAD-PR 103)	4.7
SLUGGER 3GL (PPG-PR 343)	8.7	IVY (PST-2GTD)	7.3	ALLSTAR III	4.3
GRAY WOLF (PST-2GAL)	8.3	PARADOX GLR (PPG-PR 331)	7.3	NEXUS GT (SNX)	4.3
MIGHTIER (DLFPS-236/3542)	8.3	ELEKTRA GLR (PPG-PR 371)	7.3	APR3060	4.0
NP-2	8.3	PR-5-16	7.3	BAR LP 6233	4.0
PARAGON 2 GLR (FP2)	8.3	SPIKE GLS (UF3)	7.3	GREEN SUPREME+ (AMP-R1)	4.0
PPG-PR 367	8.3	APR2616	7.0	MRSL-PR16	4.0
PALMER SUPREME (PPG-PR 421)	8.3	INTENSE	7.0	BAR LP 6117	3.7
PPG-PR 422	8.3	PST-2EGAD	7.0	BAR LP 6159	3.7
PR-6-15	8.3	SLIDER LS (PPG-PR 241)	7.0	CAYMAN (GO-143)	3.7
SIGNET	8.3	SR 4650	7.0	LPB-SD-103	3.7
ZOOM 2 (DLFPS-236/3545)	8.3	SR 4700 (DLFPS-236/3543)	7.0	GO-141	3.3
021	8.0	DLFPS-236/3552	6.7	LPB-SD-104	3.3
APPLE 3GL (PPG-PR 339)	8.0	HOMERUN LS (PPG-PR 419)	6.7	TEE-ME-UP (BSP-25)	3.3
DLFPS-236/3546	8.0	MAN O WAR	6.7	ASP0116EXT	2.7
DLFPS-236/3556	8.0	SEABISCUIT	6.7	HATRICK (BSP-17)	2.7
FASTBALL 3GL (PPG-PR 329)	8.0	DLFPS-236/3550	6.3	JR-747	2.7
GATOR FORE (DLFPS-236/3544)	8.0	PPG-PR 385	6.3	LPB-SD-102	2.7
JR-123	8.0	PST-2FOXY	6.3	MENSA	2.7
SILVER SPORT (PST-2CRP)	8.0	UMPQUA	6.3	BAR LP 6162	2.3
SUNBURST (02BS2)	8.0	DERBY XTREME	6.0	BAR LP 6165	2.3
CATALYST (023)	7.7	GATOR CINCO (DLFPS-236/3548)	6.0	DLFPS-238/3014	2.3
FURLONG (LTP-FCB)	7.7	PST-2MAY	6.0	SAGUARO	2.3
HELIOS (DLFPS-236/3538)	7.7	STARBRIGHT GLX (PST-2BDT)	6.0	JR-888	2.0
MYSTIQUE (DLFPS-236/3547)	7.7	DLFPS-236/3540	5.7	BAR LP 6131	1.7
OVERDRIVE 5G	7.7	FIESTA CINCO (DLFPS-236/3554)	5.7	BRIGHTSTAR SLT	1.7
PHARAOH	7.7	RAD-PR 112	5.7	FIREBALL (BWH)	1.7
PL2	7.7	SHIELD (02BS4)	5.7	LPB-SD-101	1.7
PPG-PR 360	7.7	BELIZE 2 (GO-142)	5.3	LPB-SD-105	1.3
PPG-PR 370	7.7	GRAY HAWK (PST-2FIND)	5.3	SAVANT	1.3
PPG-PR 372	7.7	ASP0118GL (A-4G)	5.0	LINN	1.0
PST-2PDA	7.7	BAR LP 6158	5.0		
STELLAR 4GL (PPG-PR 424)	7.7	ASP0117 (A-PR15)	4.7	LSD VALUE	1.5
SUPERSTAR GL (PPG-PR 420)	7.7	ASP0218 (A-6D)	4.7	C.V. (%)	16.1

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 38. PINK SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	UT1	MEAN	NAME	MN1	UT1	MEAN
PHARAOH	5.7	6.0	5.8	UMPQUA	4.7	5.7	5.0
HATRICK (BSP-17)	5.2	7.0	5.8	DLFPS-236/3553	4.3	6.0	4.9
021	6.0	5.0	5.7	FIESTA CINCO (DLFPS-236/3554)	4.3	6.0	4.9
02BS1	4.8	7.3	5.7	REVENGE 2GLX (JR-197)	4.5	5.7	4.9
SR 4700 (DLFPS-236/3543)	5.2	6.7	5.7	APPLE 3GL (PPG-PR 339)	4.7	5.3	4.9
SUNBURST (02BS2)	5.3	6.3	5.7	FIREBALL (BWH)	4.8	5.0	4.9
SHIELD (02BS4)	5.5	5.7	5.6	HELIOS (DLFPS-236/3538)	4.3	6.0	4.9
SPIKE GLS (UF3)	5.3	6.0	5.6	KARMA	4.7	5.3	4.9
NP-2	5.3	5.7	5.4	SEABISCUIT	5.2	4.3	4.9
PPG-PR 367	4.8	6.7	5.4	PST-2EGAD	4.3	5.7	4.8
APR3060	5.3	5.7	5.4	ASP0117 (A-PR15)	4.8	4.7	4.8
ASP0118GL (A-4G)	5.0	6.3	5.4	BAR LP 6164	4.8	4.7	4.8
DLFPS-236/3550	5.2	6.0	5.4	BRIGHTSTAR SLT	5.0	4.3	4.8
PPG-PR 385	5.2	6.0	5.4	CAYMAN (GO-143)	4.3	5.7	4.8
SILVER SPORT (PST-2CRP)	5.2	6.0	5.4	CPN	4.5	5.3	4.8
STELLAR 4GL (PPG-PR 424)	4.3	7.7	5.4	GATOR CINCO (DLFPS-236/3548)	4.5	5.3	4.8
BAR LP 6162	4.2	7.7	5.3	GRAY WOLF (PST-2GAL)	5.0	4.3	4.8
DLFPS-238/3014	4.3	7.3	5.3	HOMERUN LS (PPG-PR 419)	4.2	6.0	4.8
GATOR FORE (DLFPS-236/3544)	5.0	6.0	5.3	IVY (PST-2GTD)	4.2	6.0	4.8
PARADOX GLR (PPG-PR 331)	5.0	6.0	5.3	MYSTIQUE (DLFPS-236/3547)	4.5	5.3	4.8
PORTFOLIO (PPG-PR 423)	5.5	5.0	5.3	NP-3	4.3	5.7	4.8
ALLSTAR FORE (DLFPS-236/3541)	4.7	6.3	5.2	PL2	4.7	5.0	4.8
BELIZE 2 (GO-142)	4.5	6.7	5.2	PPG-PR 370	4.2	6.0	4.8
DLFPS-236/3540	4.8	6.0	5.2	PST-2FOXY	4.8	4.7	4.8
EVOLVE	4.8	6.0	5.2	RAD-PR 112	4.2	6.0	4.8
FURLONG (LTP-FCB)	4.5	6.7	5.2	SLIDER LS (PPG-PR 241)	4.7	5.0	4.8
MRSL-PR15	4.8	6.0	5.2	SWIFT (PST-2A2)	4.3	5.7	4.8
OVERDRIVE 5G	5.0	5.7	5.2	GREEN SUPREME+ (AMP-R1)	4.8	4.3	4.7
PST-2MAY	5.2	5.3	5.2	INTENSE	4.3	5.3	4.7
PEPPER II (RAD-PR 103)	4.3	6.7	5.1	NEXUS GT (SNX)	4.2	5.7	4.7
PR-6-15	4.8	5.7	5.1	TEE-ME-UP (BSP-25)	3.8	6.3	4.7
BAR LP 6165	4.5	6.3	5.1	ASP0218 (A-6D)	4.8	4.0	4.6
SR 4650	4.7	6.0	5.1	BAR LP 6117	4.8	4.0	4.6
APR2616	5.2	4.7	5.0	BAR LP 6158	4.7	4.3	4.6
ASP0116EXT	5.5	4.0	5.0	LPB-SD-103	4.0	5.7	4.6
BAR LP 6159	4.5	6.0	5.0	PALMER SUPREME (PPG-PR 421)	3.8	6.0	4.6
CS-6	4.7	5.7	5.0	XCELERATOR	4.2	5.3	4.6
FASTBALL 3GL (PPG-PR 329)	4.8	5.3	5.0	APR2612	4.2	5.3	4.6
GO-141	4.8	5.3	5.0	PARAGON 2 GLR (FP2)	4.7	4.3	4.6
JR-123	4.7	5.7	5.0	ZOOM 2 (DLFPS-236/3545)	3.7	6.0	4.4
PPG-PR 360	5.0	5.0	5.0	DLFPS-236/3546	4.5	4.3	4.4
ELEKTRA GLR (PPG-PR 371)	4.8	5.3	5.0	DLFPS-236/3552	4.8	3.7	4.4
PPG-PR 372	4.5	6.0	5.0	DLFPS-236/3556	4.5	4.3	4.4
PPG-PR 422	5.3	4.3	5.0	MRSL-PR16	5.3	2.7	4.4
SLUGGER 3GL (PPG-PR 343)	4.8	5.3	5.0	PR-5-16	4.3	4.7	4.4

TABLE 38. PINK SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2017-2021 DATA

PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	UT1	MEAN
SIGNET	4.5	4.3	4.4
ALLSTAR III	4.0	5.0	4.3
SAGUARO	4.0	5.0	4.3
GRAND SLAM GLD	3.7	5.3	4.2
MAN O WAR	3.8	5.0	4.2
BAR LP 6131	3.8	4.7	4.1
CATALYST (023)	4.7	3.0	4.1
MIGHTIER (DLFPS-236/3542)	3.7	5.0	4.1
ALLOY (RRT)	4.0	4.0	4.0
GRAY HAWK (PST-2FIND)	3.3	5.0	3.9
LPB-SD-101	3.7	4.3	3.9
PST-2PDA	4.0	3.7	3.9
SUPERSTAR GL (PPG-PR 420)	3.5	4.7	3.9
DERBY XTREME	4.0	3.7	3.9
SAVANT	3.7	4.3	3.9
JR-888	4.0	3.3	3.8
STARBRIGHT GLX (PST-2BDT)	3.5	4.3	3.8
BAR LP 6233	3.8	3.3	3.7
LPB-SD-102	2.8	4.7	3.4
MENSA	3.0	4.0	3.3
LPB-SD-104	2.2	3.0	2.4
LPB-SD-105	2.5	2.3	2.4
LINN	1.8	3.0	2.2
JR-747	2.2	1.3	1.9
LSD VALUE	1.9	2.6	2.1
C.V. (%)	28.5	30.9	29.3

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 39. FALL COLOR (NOVEMBER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	IL1	NAME	IL1	NAME	IL1
FURLONG (LTP-FCB)	7.0	FIESTA CINCO (DLFPS-236/3554)	6.4	BAR LP 6159	6.1
PST-2PDA	7.0	IVY (PST-2GTD)	6.4	BELIZE 2 (GO-142)	6.1
FIREBALL (BWH)	6.9	PHARAOH	6.4	DLFPS-236/3540	6.1
PARAGON 2 GLR (FP2)	6.9	PPG-PR 367	6.4	DLFPS-236/3550	6.1
PEPPER II (RAD-PR 103)	6.9	ELEKTRA GLR (PPG-PR 371)	6.4	GO-141	6.1
PR-6-15	6.9	PORTFOLIO (PPG-PR 423)	6.4	GRAY WOLF (PST-2GAL)	6.1
021	6.8	PR-5-16	6.4	INTENSE	6.1
02BS1	6.8	SLIDER LS (PPG-PR 241)	6.4	MENSA	6.1
CPN	6.8	STARBRIGHT GLX (PST-2BDT)	6.4	MIGHTIER (DLFPS-236/3542)	6.1
NP-3	6.8	ALLSTAR FORE (DLFPS-236/3541)	6.3	PPG-PR 422	6.1
PST-2FOXY	6.8	ASP0116EXT	6.3	ASP0117 (A-PR15)	6.0
SLUGGER 3GL (PPG-PR 343)	6.8	ASP0118GL (A-4G)	6.3	EVOLVE	6.0
DERBY XTREME	6.8	BRIGHTSTAR SLT	6.3	GATOR FORE (DLFPS-236/3544)	6.0
GRAY HAWK (PST-2FIND)	6.8	GATOR CINCO (DLFPS-236/3548)	6.3	HOMERUN LS (PPG-PR 419)	6.0
LPB-SD-103	6.8	HELIOS (DLFPS-236/3538)	6.3	KARMA	6.0
SIGNET	6.8	LPB-SD-101	6.3	PPG-PR 360	6.0
APPLE 3GL (PPG-PR 339)	6.7	NP-2	6.3	PALMER SUPREME (PPG-PR 421)	6.0
BAR LP 6117	6.7	PPG-PR 372	6.3	RAD-PR 112	6.0
CS-6	6.7	PST-2MAY	6.3	SUPERSTAR GL (PPG-PR 420)	6.0
GREEN SUPREME+ (AMP-R1)	6.7	SAGUARO	6.3	APR2612	5.9
LPB-SD-102	6.7	SILVER SPORT (PST-2CRP)	6.3	CATALYST (023)	5.9
MAN O WAR	6.7	STELLAR 4GL (PPG-PR 424)	6.3	GRAND SLAM GLD	5.9
MRSL-PR15	6.7	UMPQUA	6.3	JR-123	5.9
NEXUS GT (SNX)	6.7	XCELERATOR	6.3	PL2	5.9
PPG-PR 385	6.7	ALLOY (RRT)	6.2	BAR LP 6165	5.8
SAVANT	6.7	MYSTIQUE (DLFPS-236/3547)	6.2	DLFPS-236/3552	5.8
BAR LP 6233	6.6	OVERDRIVE 5G	6.2	DLFPS-236/3553	5.8
HATRICK (BSP-17)	6.6	PST-2EGAD	6.2	APR3060	5.7
LPB-SD-105	6.6	SPIKE GLS (UF3)	6.2	BAR LP 6164	5.7
PPG-PR 370	6.6	TEE-ME-UP (BSP-25)	6.2	DLFPS-236/3546	5.7
SEABISCUIT	6.6	REVENGE 2GLX (JR-197)	6.2	DLFPS-236/3556	5.7
BAR LP 6162	6.6	LPB-SD-104	6.2	ZOOM 2 (DLFPS-236/3545)	5.7
CAYMAN (GO-143)	6.6	MRSL-PR16	6.2	SUNBURST (02BS2)	5.6
SWIFT (PST-2A2)	6.6	SHIELD (02BS4)	6.2	JR-888	5.3
PARADOX GLR (PPG-PR 331)	6.4	SR 4700 (DLFPS-236/3543)	6.2	JR-747	5.2
SR 4650	6.4	APR2616	6.1	LINN	3.7
ALLSTAR III	6.4	ASP0218 (A-6D)	6.1		
DLFPS-238/3014	6.4	BAR LP 6131	6.1	LSD VALUE	1.2
FASTBALL 3GL (PPG-PR 329)	6.4	BAR LP 6158	6.1	C.V. (%)	12.1

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 40. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2016 DATA 2/

NAME	CT1	MI1	MO1	NE1	WI1	MEAN
CATALYST (023)	80.0	65.0	98.0	60.0	66.7	73.9
SUNBURST (02BS2)	75.0	76.7	94.0	56.7	63.3	73.1
SAVANT	71.7	70.0	91.7	63.3	68.3	73.0
GRAY HAWK (PST-2FIND)	73.3	71.7	95.7	60.0	63.3	72.8
LPB-SD-102	75.0	70.0	93.3	63.3	61.7	72.7
PR-6-15	68.3	76.7	97.3	63.3	56.7	72.5
PARADOX GLR (PPG-PR 331)	75.0	71.7	91.7	56.7	66.7	72.3
BAR LP 6233	75.0	71.7	94.0	63.3	56.7	72.1
ZOOM 2 (DLFPS-236/3545)	73.3	71.7	92.3	63.3	60.0	72.1
021	70.0	73.3	94.0	56.7	65.0	71.8
DLFPS-236/3556	70.0	71.7	96.7	60.0	60.0	71.7
ALLOY (RRT)	76.7	71.7	91.7	56.7	61.7	71.7
NP-2	66.7	76.7	93.0	56.7	63.3	71.3
ELEKTRA GLR (PPG-PR 371)	66.7	68.3	92.7	60.0	68.3	71.2
HELIOS (DLFPS-236/3538)	66.7	75.0	90.7	60.0	63.3	71.1
XCELERATOR	66.7	70.0	95.7	60.0	63.3	71.1
STELLAR 4GL (PPG-PR 424)	66.7	71.7	97.0	60.0	60.0	71.1
JR-888	63.3	73.3	91.7	63.3	63.3	71.0
CPN	63.3	75.0	96.0	60.0	60.0	70.9
ASP0117 (A-PR15)	65.0	71.7	94.0	56.7	66.7	70.8
EVOLVE	80.0	71.7	95.0	56.7	50.0	70.7
DLFPS-236/3546	65.0	70.0	95.7	56.7	65.0	70.5
GRAND SLAM GLD	76.7	68.3	89.0	60.0	58.3	70.5
BAR LP 6159	65.0	75.0	91.7	56.7	63.3	70.3
CS-6	73.3	73.3	93.3	50.0	61.7	70.3
PHARAOH	70.0	66.7	91.7	56.7	66.7	70.3
ASP0116EXT	70.0	73.3	90.0	60.0	58.3	70.3
PORTFOLIO (PPG-PR 423)	65.0	70.0	94.7	60.0	61.7	70.3
SWIFT (PST-2A2)	70.0	70.0	91.0	60.0	60.0	70.2
SR 4650	76.7	70.0	94.3	60.0	50.0	70.2
GO-141	66.7	63.3	97.3	56.7	66.7	70.1
PPG-PR 360	68.3	71.7	92.3	56.7	61.7	70.1
DLFPS-236/3552	68.3	73.3	96.3	56.7	55.0	69.9
SLUGGER 3GL (PPG-PR 343)	71.7	75.0	94.0	56.7	51.7	69.8
SLIDER LS (PPG-PR 241)	71.7	68.3	92.3	56.7	60.0	69.8
PPG-PR 372	73.3	68.3	94.0	56.7	56.7	69.8
SEABISCUIT	68.3	73.3	95.7	56.7	55.0	69.8
INTENSE	80.0	65.0	93.7	56.7	53.3	69.7
MAN O WAR	70.0	68.3	93.3	60.0	56.7	69.7
APPLE 3GL (PPG-PR 339)	66.7	75.0	90.0	53.3	63.3	69.7
PST-2PDA	71.7	71.7	93.3	53.3	58.3	69.7
DLFPS-236/3550	65.0	66.7	96.0	60.0	60.0	69.5
JR-747	63.3	73.3	94.3	56.7	60.0	69.5
PL2	66.7	68.3	92.7	63.3	56.7	69.5
FURLONG (LTP-FCB)	61.7	73.3	94.0	56.7	61.7	69.5
HOMERUN LS (PPG-PR 419)	68.3	66.7	95.7	60.0	56.7	69.5
LPB-SD-101	58.3	73.3	93.3	60.0	61.7	69.3
PALMER SUPREME (PPG-PR 421)	61.7	70.0	93.3	63.3	58.3	69.3

TABLE 40. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2016 DATA 2/

NAME	CT1	MI1	MO1	NE1	WI1	MEAN
BAR LP 6131	61.7	68.3	90.7	60.0	65.0	69.1
BELIZE 2 (GO-142)	65.0	65.0	95.7	56.7	63.3	69.1
SUPERSTAR GL (PPG-PR 420)	70.0	66.7	94.0	60.0	55.0	69.1
PR-5-16	63.3	71.7	94.0	60.0	56.7	69.1
SAGUARO	65.0	73.3	94.0	56.7	56.7	69.1
SIGNET	60.0	73.3	92.3	60.0	60.0	69.1
NEXUS GT (SNX)	71.7	63.3	93.7	56.7	60.0	69.1
FIREBALL (BWH)	66.7	68.3	90.0	53.3	66.7	69.0
MENSA	66.7	73.3	91.7	50.0	63.3	69.0
PPG-PR 422	63.3	68.3	96.3	53.3	63.3	68.9
PPG-PR 370	68.3	68.3	91.0	60.0	56.7	68.9
SHIELD (02BS4)	66.7	70.0	94.0	56.7	56.7	68.8
BAR LP 6117	68.3	68.3	90.0	60.0	56.7	68.7
BAR LP 6164	63.3	68.3	95.0	56.7	60.0	68.7
SR 4700 (DLFPS-236/3543)	65.0	66.7	94.0	56.7	60.0	68.5
MYSTIQUE (DLFPS-236/3547)	63.3	68.3	95.7	63.3	51.7	68.5
LPB-SD-105	51.7	73.3	93.3	66.7	56.7	68.3
SPIKE GLS (UF3)	68.3	68.3	91.7	56.7	56.7	68.3
DLFPS-236/3540	61.7	66.7	95.7	60.0	56.7	68.1
PARAGON 2 GLR (FP2)	66.7	61.7	94.0	63.3	55.0	68.1
LPB-SD-103	63.3	68.3	92.3	60.0	56.7	68.1
FASTBALL 3GL (PPG-PR 329)	63.3	70.0	90.7	60.0	56.7	68.1
NP-3	60.0	73.3	94.0	50.0	63.3	68.1
OVERDRIVE 5G	58.3	65.0	97.0	56.7	63.3	68.1
HATRICK (BSP-17)	66.7	70.0	90.0	50.0	63.3	68.0
UMPQUA	68.3	68.3	90.0	56.7	56.7	68.0
PPG-PR 367	61.7	71.7	96.3	56.7	53.3	67.9
BRIGHTSTAR SLT	65.0	68.3	92.3	56.7	56.7	67.8
GRAY WOLF (PST-2GAL)	63.3	66.7	94.0	60.0	55.0	67.8
PPG-PR 385	63.3	65.0	95.7	53.3	61.7	67.8
ALLSTAR III	70.0	61.7	91.7	60.0	55.0	67.7
LPB-SD-104	60.0	70.0	94.7	50.0	63.3	67.6
DLFPS-236/3553	66.7	66.7	92.3	60.0	51.7	67.5
APR2616	66.7	70.0	90.0	53.3	56.7	67.3
MIGHTIER (DLFPS-236/3542)	63.3	63.3	94.0	56.7	58.3	67.1
GREEN SUPREME+ (AMP-R1)	58.3	68.3	91.7	50.0	66.7	67.0
ALLSTAR FORE (DLFPS-236/3541)	60.0	66.7	93.3	60.0	55.0	67.0
MRSL-PR16	58.3	71.7	90.0	56.7	58.3	67.0
MRSL-PR15	56.7	71.7	91.7	50.0	63.3	66.7
DERBY XTREME	65.0	68.3	92.7	56.7	50.0	66.5
REVENGE 2GLX (JR-197)	58.3	70.0	92.3	56.7	55.0	66.5
ASP0118GL (A-4G)	58.3	71.7	90.0	50.0	61.7	66.3
APR3060	66.7	70.0	91.7	50.0	53.3	66.3
CAYMAN (GO-143)	63.3	66.7	91.0	53.3	56.7	66.2
TEE-ME-UP (BSP-25)	58.3	70.0	94.0	46.7	60.0	65.8
STARBRIGHT GLX (PST-2BDT)	70.0	66.7	92.3	60.0	40.0	65.8
PST-2EGAD	65.0	60.0	89.0	60.0	55.0	65.8
GATOR CINCO (DLFPS-236/3548)	65.0	66.7	96.7	53.3	46.7	65.7

TABLE 40. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2016 DATA 2/

NAME	CT1	MI1	MO1	NE1	WI1	MEAN
ASP0218 (A-6D)	60.0	68.3	91.3	50.0	56.7	65.3
IVY (PST-2GTD)	61.7	66.7	95.7	50.0	51.7	65.1
JR-123	63.3	70.0	90.0	53.3	48.3	65.0
LINN	75.0	58.3	90.0	56.7	45.0	65.0
GATOR FORE (DLFPS-236/3544)	60.0	65.0	92.3	56.7	50.0	64.8
BAR LP 6158	66.7	66.7	90.0	53.3	46.7	64.7
SILVER SPORT (PST-2CRP)	53.3	60.0	93.3	56.7	60.0	64.7
KARMA	66.7	65.0	95.0	53.3	43.3	64.7
PST-2MAY	61.7	61.7	90.0	53.3	56.7	64.7
APR2612	53.3	68.3	92.3	46.7	61.7	64.5
RAD-PR 112	63.3	55.0	93.3	56.7	51.7	64.0
PST-2FOXY	56.7	68.3	85.0	56.7	53.3	64.0
FIESTA CINCO (DLFPS-236/3554)	58.3	60.0	90.7	53.3	56.7	63.8
PEPPER II (RAD-PR 103)	53.3	61.7	90.0	53.3	60.0	63.7
DLFPS-238/3014	63.3	58.3	95.7	46.7	50.0	62.8
02BS1	63.3	60.0	91.7	56.7	40.0	62.3
BAR LP 6162	60.0	55.0	90.7	53.3	48.3	61.5
BAR LP 6165	50.0	60.0	89.0	60.0	46.7	61.1
LSD VALUE	13.9	10.6	6.6	10.4	15.0	5.2
C.V. (%)	13.2	9.6	4.4	11.3	16.1	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 41. QUALITY (DECEMBER 2016) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2016 DATA

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

NAME	CA7	NAME	CA7	NAME	CA7
HATRICK (BSP-17)	8.7	SEABISCUIT	7.7	TEE-ME-UP (BSP-25)	6.7
BAR LP 6117	8.3	SIGNET	7.7	MYSTIQUE (DLFPS-236/3547)	6.7
GO-141	8.3	021	7.3	GATOR CINCO (DLFPS-236/3548)	6.7
CAYMAN (GO-143)	8.3	BAR LP 6164	7.3	KARMA	6.7
LPB-SD-101	8.3	ZOOM 2 (DLFPS-236/3545)	7.3	FURLONG (LTP-FCB)	6.7
PARADOX GLR (PPG-PR 331)	8.3	DLFPS-236/3556	7.3	PL2	6.7
APPLE 3GL (PPG-PR 339)	8.3	PARAGON 2 GLR (FP2)	7.3	PPG-PR 385	6.7
PR-6-15	8.3	JR-747	7.3	PST-2EGAD	6.7
UMPQUA	8.3	LPB-SD-102	7.3	RAD-PR 112	6.7
ASP0218 (A-6D)	8.0	NP-3	7.3	SPIKE GLS (UF3)	6.7
APR3060	8.0	OVERDRIVE 5G	7.3	XCELERATOR	6.7
ASP0116EXT	8.0	PHARAOH	7.3	APR2612	6.3
BAR LP 6165	8.0	FASTBALL 3GL (PPG-PR 329)	7.3	BRIGHTSTAR SLT	6.3
CPN	8.0	PPG-PR 370	7.3	DLFPS-236/3540	6.3
FIESTA CINCO (DLFPS-236/3554)	8.0	STELLAR 4GL (PPG-PR 424)	7.3	DLFPS-238/3014	6.3
BELIZE 2 (GO-142)	8.0	STARBRIGHT GLX (PST-2BDT)	7.3	LPB-SD-103	6.3
REVENGE 2GLX (JR-197)	8.0	PST-2FOXY	7.3	MENSA	6.3
LINN	8.0	NEXUS GT (SNX)	7.3	MRSL-PR15	6.3
MAN O WAR	8.0	CATALYST (023)	7.0	NP-2	6.3
MRSL-PR16	8.0	02BS1	7.0	SLIDER LS (PPG-PR 241)	6.3
PPG-PR 367	8.0	SUNBURST (02BS2)	7.0	PPG-PR 372	6.3
HOMERUN LS (PPG-PR 419)	8.0	ASP0117 (A-PR15)	7.0	PR-5-16	6.3
SUPERSTAR GL (PPG-PR 420)	8.0	APR2616	7.0	IVY (PST-2GTD)	6.3
PST-2MAY	8.0	BAR LP 6131	7.0	ALLOY (RRT)	6.3
SHIELD (02BS4)	7.7	BAR LP 6158	7.0	HELIOS (DLFPS-236/3538)	6.0
ASP0118GL (A-4G)	7.7	BAR LP 6159	7.0	DLFPS-236/3546	6.0
ALLSTAR III	7.7	ALLSTAR FORE (DLFPS-236/3541)	7.0	DLFPS-236/3553	6.0
GREEN SUPREME+ (AMP-R1)	7.7	MIGHTIER (DLFPS-236/3542)	7.0	LPB-SD-105	6.0
BAR LP 6162	7.7	SR 4700 (DLFPS-236/3543)	7.0	PPG-PR 360	6.0
BAR LP 6233	7.7	DLFPS-236/3552	7.0	SAGUARO	6.0
CS-6	7.7	GRAND SLAM GLD	7.0	SILVER SPORT (PST-2CRP)	6.0
DLFPS-236/3550	7.7	GRAY WOLF (PST-2GAL)	7.0	DERBY XTREME	5.7
EVOLVE	7.7	INTENSE	7.0	LPB-SD-104	5.7
GRAY HAWK (PST-2FIND)	7.7	JR-123	7.0	PPG-PR 422	5.7
JR-888	7.7	PALMER SUPREME (PPG-PR 421)	7.0	FIREBALL (BWH)	5.3
SLUGGER 3GL (PPG-PR 343)	7.7	PST-2PDA	7.0	PORTFOLIO (PPG-PR 423)	5.3
ELEKTRA GLR (PPG-PR 371)	7.7	SAVANT	7.0	PEPPER II (RAD-PR 103)	5.3
SWIFT (PST-2A2)	7.7	SR 4650	7.0		
				LSD VALUE	1.9
				C.V. (%)	16.9

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 42. WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

WINTER KILL RATINGS 1-9; 9=NONE 2/

NAME	IL1	MN1	MEAN	NAME	IL1	MN1	MEAN
FIESTA CINCO (DLFPS-236/3554)	8.7	7.3	8.0	PALMER SUPREME (PPG-PR 421)	6.3	6.0	6.2
INTENSE	9.0	6.7	7.8	PR-5-16	6.3	6.0	6.2
LPB-SD-101	9.0	6.7	7.8	ASP0117 (A-PR15)	5.7	6.3	6.0
RAD-PR 112	9.0	6.7	7.8	BAR LP 6233	5.0	7.0	6.0
APPLE 3GL (PPG-PR 339)	8.7	7.0	7.8	DLFPS-236/3556	5.3	6.7	6.0
SHIELD (02BS4)	8.3	7.0	7.7	MRSL-PR16	6.0	6.0	6.0
SWIFT (PST-2A2)	9.0	6.3	7.7	PPG-PR 360	6.3	5.7	6.0
BAR LP 6131	9.0	6.0	7.5	SIGNET	6.3	5.7	6.0
HOMERUN LS (PPG-PR 419)	8.0	7.0	7.5	SR 4650	5.0	7.0	6.0
PARADOX GLR (PPG-PR 331)	7.7	7.0	7.3	SUPERSTAR GL (PPG-PR 420)	6.3	5.7	6.0
XCELERATOR	9.0	5.7	7.3	DLFPS-236/3550	7.0	4.7	5.8
NP-3	8.3	6.0	7.2	DLFPS-236/3553	5.7	6.0	5.8
PPG-PR 422	8.3	6.0	7.2	GRAY WOLF (PST-2GAL)	7.0	4.7	5.8
DERBY XTREME	9.0	5.3	7.2	PPG-PR 372	4.7	6.7	5.7
MENSA	9.0	5.3	7.2	BAR LP 6159	5.3	6.0	5.7
MYSTIQUE (DLFPS-236/3547)	8.7	5.7	7.2	SAVANT	7.3	4.0	5.7
SAGUARO	8.0	6.3	7.2	ASP0116EXT	5.3	5.7	5.5
LPB-SD-102	6.3	7.7	7.0	BAR LP 6162	8.7	2.3	5.5
NP-2	7.7	6.3	7.0	DLFPS-236/3540	4.7	6.3	5.5
BAR LP 6117	9.0	4.7	6.8	GATOR FORE (DLFPS-236/3544)	6.0	5.0	5.5
CS-6	8.0	5.7	6.8	GO-141	5.3	5.7	5.5
GATOR CINCO (DLFPS-236/3548)	9.0	4.7	6.8	HATRICK (BSP-17)	4.3	6.7	5.5
PORTFOLIO (PPG-PR 423)	8.3	5.3	6.8	PARAGON 2 GLR (FP2)	5.0	6.0	5.5
SLUGGER 3GL (PPG-PR 343)	8.3	5.3	6.8	PPG-PR 370	6.0	5.0	5.5
APR2616	8.7	5.0	6.8	ELEKTRA GLR (PPG-PR 371)	6.3	4.7	5.5
BAR LP 6164	6.3	7.3	6.8	PPG-PR 385	5.7	5.3	5.5
ASP0218 (A-6D)	8.7	4.7	6.7	SPIKE GLS (UF3)	4.0	7.0	5.5
CPN	6.3	7.0	6.7	SR 4700 (DLFPS-236/3543)	5.0	6.0	5.5
LPB-SD-103	8.0	5.3	6.7	UMPQUA	5.0	6.0	5.5
PST-2PDA	7.3	6.0	6.7	FASTBALL 3GL (PPG-PR 329)	5.0	5.7	5.3
OVERDRIVE 5G	5.7	7.3	6.5	FURLONG (LTP-FCB)	5.0	5.7	5.3
PR-6-15	6.7	6.3	6.5	JR-123	4.0	6.7	5.3
DLFPS-236/3546	7.0	5.7	6.3	MRSL-PR15	5.7	5.0	5.3
KARMA	8.3	4.3	6.3	PHARAOH	6.0	4.7	5.3
PL2	6.0	6.7	6.3	BRIGHTSTAR SLT	4.3	6.3	5.3
PPG-PR 367	6.7	6.0	6.3	CAYMAN (GO-143)	6.3	4.3	5.3
STELLAR 4GL (PPG-PR 424)	6.3	6.3	6.3	EVOLVE	4.3	6.3	5.3
BAR LP 6158	6.7	5.7	6.2	NEXUS GT (SNX)	6.3	4.3	5.3
ASP0118GL (A-4G)	8.0	4.3	6.2	PST-2EGAD	5.3	5.3	5.3

TABLE 42. (CONT'D) WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2017-2021 DATA

NAME	WINTER KILL RATINGS 1-9; 9=NONE 2/ IL1	MN1	MEAN
JR-888	3.3	7.0	5.2
LPB-SD-104	5.7	4.7	5.2
02BS1	5.3	4.7	5.0
DLFPS-238/3014	6.3	3.7	5.0
LPB-SD-105	5.3	4.7	5.0
PST-2FOXY	4.7	5.3	5.0
GRAY HAWK (PST-2FIND)	3.0	6.7	4.8
STARBRIGHT GLX (PST-2BDT)	4.7	5.0	4.8
APR2612	6.3	3.3	4.8
CATALYST (023)	3.7	6.0	4.8
REVENGE 2GLX (JR-197)	4.3	5.3	4.8
PEPPER II (RAD-PR 103)	6.0	3.7	4.8
ALLSTAR FORE (DLFPS-236/3541)	3.3	6.0	4.7
HELIOS (DLFPS-236/3538)	3.7	5.7	4.7
ALLSTAR III	4.3	5.0	4.7
SILVER SPORT (PST-2CRP)	4.0	5.3	4.7
ZOOM 2 (DLFPS-236/3545)	4.3	5.0	4.7
APR3060	4.0	5.0	4.5
PST-2MAY	4.7	4.3	4.5
SLIDER LS (PPG-PR 241)	3.3	5.7	4.5
FIREBALL (BWH)	4.7	4.0	4.3
JR-747	3.0	5.7	4.3
BAR LP 6165	4.3	4.3	4.3
BELIZE 2 (GO-142)	3.7	5.0	4.3
SEABISCUIT	3.7	5.0	4.3
GREEN SUPREME+ (AMP-R1)	3.3	5.0	4.2
IVY (PST-2GTD)	3.7	4.7	4.2
TEE-ME-UP (BSP-25)	4.7	3.7	4.2
ALLOY (RRT)	3.0	5.3	4.2
021	3.0	5.0	4.0
DLFPS-236/3552	3.0	4.7	3.8
MIGHTIER (DLFPS-236/3542)	3.0	4.7	3.8
GRAND SLAM GLD	1.0	6.3	3.7
MAN O WAR	1.0	6.0	3.5
LINN	3.7	2.7	3.2
SUNBURST (02BS2)	1.3	5.0	3.2
LSD VALUE	5.3	2.7	4.0
C.V. (%)	55.8	30.5	43.2

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 43. PERCENT POA ANNUA RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA 2/

NAME	NJ2	NAME	NJ2	NAME	NJ2
LINN	60.0	BAR LP 6164	11.7	SLIDER LS (PPG-PR 241)	5.0
BRIGHTSTAR SLT	36.7	PEPPER II (RAD-PR 103)	11.7	XCELERATOR	5.0
BAR LP 6162	33.3	PPG-PR 367	11.7	CATALYST (023)	3.3
CAYMAN (GO-143)	30.0	PST-2MAY	11.7	DLFPS-236/3553	3.3
EVOLVE	28.3	APR2612	10.0	DLFPS-236/3556	3.3
LPB-SD-101	28.3	BAR LP 6159	10.0	GATOR CINCO (DLFPS-236/3548)	3.3
LPB-SD-103	26.7	BAR LP 6233	10.0	GRAND SLAM GLD	3.3
ASP0218 (A-6D)	25.0	PR-5-16	10.0	HOMERUN LS (PPG-PR 419)	3.3
BELIZE 2 (GO-142)	25.0	PST-2FOXY	10.0	MIGHTIER (DLFPS-236/3542)	3.3
DLFPS-238/3014	25.0	SWIFT (PST-2A2)	10.0	NP-3	3.3
FIREBALL (BWH)	25.0	APR2616	8.3	PPG-PR 422	3.3
LPB-SD-105	25.0	DLFPS-236/3540	8.3	PORTFOLIO (PPG-PR 423)	3.3
ALLSTAR III	23.3	GRAY HAWK (PST-2FIND)	8.3	PR-6-15	3.3
GO-141	23.3	INTENSE	8.3	SPIKE GLS (UF3)	3.3
SAVANT	23.3	MAN O WAR	8.3	SUPERSTAR GL (PPG-PR 420)	3.3
NEXUS GT (SNX)	21.7	MRSL-PR15	8.3	ZOOM 2 (DLFPS-236/3545)	3.3
GREEN SUPREME+ (AMP-R1)	20.0	PST-2PDA	8.3	ALLOY (RRT)	1.7
JR-747	20.0	TEE-ME-UP (BSP-25)	8.3	ALLSTAR FORE (DLFPS-236/3541)	1.7
JR-888	20.0	CPN	6.7	DLFPS-236/3552	1.7
LPB-SD-104	20.0	DLFPS-236/3550	6.7	FASTBALL 3GL (PPG-PR 329)	1.7
BAR LP 6158	18.3	GATOR FORE (DLFPS-236/3544)	6.7	FIESTA CINCO (DLFPS-236/3554)	1.7
MRSL-PR16	18.3	HELIOS (DLFPS-236/3538)	6.7	IVY (PST-2GTD)	1.7
CS-6	16.7	PARAGON 2 GLR (FP2)	6.7	REVENGE 2GLX (JR-197)	1.7
DERBY XTREME	16.7	PHARAOH	6.7	NP-2	1.7
HATRICK (BSP-17)	16.7	PPG-PR 370	6.7	ELEKTRA GLR (PPG-PR 371)	1.7
JR-123	16.7	PPG-PR 372	6.7	SHIELD (02BS4)	1.7
KARMA	16.7	PPG-PR 385	6.7	SLUGGER 3GL (PPG-PR 343)	1.7
SAGUARO	16.7	RAD-PR 112	6.7	SR 4700 (DLFPS-236/3543)	1.7
APR3060	15.0	SILVER SPORT (PST-2CRP)	6.7	SUNBURST (02BS2)	1.7
ASP0118GL (A-4G)	15.0	SR 4650	6.7	DLFPS-236/3546	0.0
BAR LP 6117	15.0	UMPQUA	6.7	FURLONG (LTP-FCB)	0.0
BAR LP 6165	15.0	021	5.0	MYSTIQUE (DLFPS-236/3547)	0.0
LPB-SD-102	15.0	02BS1	5.0	PL2	0.0
MENSA	15.0	APPLE 3GL (PPG-PR 339)	5.0	PPG-PR 360	0.0
ASP0116EXT	13.3	GRAY WOLF (PST-2GAL)	5.0	PALMER SUPREME (PPG-PR 421)	0.0
BAR LP 6131	13.3	PARADOX GLR (PPG-PR 331)	5.0	STELLAR 4GL (PPG-PR 424)	0.0
OVERDRIVE 5G	13.3	PST-2EGAD	5.0		
STARBRIGHT GLX (PST-2BDT)	13.3	SEABISCUIT	5.0	LSD VALUE	9.1
ASP0117 (A-PR15)	11.7	SIGNET	5.0	C.V. (%)	53.2

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 44. WEAR TOLERANCE AND PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT ADELPHIA, NJ 1/
2021 DATA

WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/

NAME	PERCENT GROUND COVER TRAFFIC	WEAR TOLERANCE	NAME	PERCENT GROUND COVER TRAFFIC	WEAR TOLERANCE	NAME	PERCENT GROUND COVER TRAFFIC	WEAR TOLERANCE
SR 4700 (DLFPS-236/3543)	38.3	4.3	PORTFOLIO (PPG-PR 423)	31.7	2.3	UMPQUA	25.0	2.0
MYSTIQUE (DLFPS-236/3547)	35.0	3.7	PR-5-16	31.7	2.3	APPLE 3GL (PPG-PR 339)	26.7	1.7
ALLSTAR FORE (DLFPS-236/3541)	40.0	3.3	PR-6-15	30.0	2.3	ASP0117 (A-PR15)	21.7	1.7
BAR LP 6165	60.0	3.3	SEABISCUIT	30.0	2.3	ASP0118GL (A-4G)	23.3	1.7
DLFPS-236/3546	41.7	3.3	SLUGGER 3GL (PPG-PR 343)	36.7	2.3	BAR LP 6158	30.0	1.7
DLFPS-236/3556	46.7	3.3	SPIKE GLS (UF3)	28.3	2.3	BAR LP 6164	26.7	1.7
FURLONG (LTP-FCB)	40.0	3.3	SR 4650	33.3	2.3	DERBY XTREME	35.0	1.7
021	38.3	3.0	SUNBURST (02BS2)	35.0	2.3	DLFPS-238/3014	25.0	1.7
FIESTA CINCO (DLFPS-236/3554)	40.0	3.0	SWIFT (PST-2A2)	36.7	2.3	GRAY HAWK (PST-2FIND)	25.0	1.7
HELIOS (DLFPS-236/3538)	51.7	3.0	XCELERATOR	43.3	2.3	LPB-SD-101	31.7	1.7
JR-888	46.7	3.0	APR2616	26.7	2.0	PPG-PR 360	35.0	1.7
LPB-SD-102	40.0	3.0	APR3060	26.7	2.0	PST-2EGAD	21.7	1.7
MENSA	36.7	3.0	ASP0116EXT	20.0	2.0	PST-2FOXY	28.3	1.7
MIGHTIER (DLFPS-236/3542)	41.7	3.0	BAR LP 6131	28.3	2.0	PST-2MAY	25.0	1.7
NP-3	40.0	3.0	BAR LP 6159	26.7	2.0	RAD-PR 112	21.7	1.7
SAVANT	56.7	3.0	DLFPS-236/3540	33.3	2.0	STARBRIGHT GLX (PST-2BDT)	26.7	1.7
ZOOM 2 (DLFPS-236/3545)	36.7	3.0	DLFPS-236/3550	36.7	2.0	TEE-ME-UP (BSP-25)	23.3	1.7
ALLOY (RRT)	33.3	2.7	DLFPS-236/3552	33.3	2.0	ALLSTAR III	23.3	1.3
CATALYST (023)	40.0	2.7	DLFPS-236/3553	26.7	2.0	BAR LP 6117	30.0	1.3
GATOR CINCO (DLFPS-236/3548)	48.3	2.7	EVOLVE	28.3	2.0	CS-6	21.7	1.3
REVENGE 2GLX (JR-197)	38.3	2.7	GRAY WOLF (PST-2GAL)	23.3	2.0	GO-141	21.7	1.3
MAN O WAR	30.0	2.7	GREEN SUPREME+ (AMP-R1)	23.3	2.0	JR-123	26.7	1.3
NP-2	38.3	2.7	HATRICK (BSP-17)	23.3	2.0	LINN	28.3	1.3
OVERDRIVE 5G	41.7	2.7	HOMERUN LS (PPG-PR 419)	31.7	2.0	LPB-SD-103	38.3	1.3
PHARAOH	31.7	2.7	IVY (PST-2GTD)	31.7	2.0	LPB-SD-105	33.3	1.3
PPG-PR 372	33.3	2.7	JR-747	38.3	2.0	MRSL-PR16	15.0	1.3
STELLAR 4GL (PPG-PR 424)	36.7	2.7	KARMA	23.3	2.0	PARAGON 2 GLR (FP2)	25.0	1.3
02BS1	26.7	2.3	MRSL-PR15	28.3	2.0	PEPPER II (RAD-PR 103)	25.0	1.3
APR2612	26.7	2.3	PPG-PR 370	33.3	2.0	ASP0218 (A-6D)	16.7	1.0
BAR LP 6233	38.3	2.3	ELEKTRA GLR (PPG-PR 371)	28.3	2.0	BAR LP 6162	30.0	1.0
CPN	36.7	2.3	PALMER SUPREME (PPG-PR 421)	30.0	2.0	BELIZE 2 (GO-142)	28.3	1.0
FASTBALL 3GL (PPG-PR 329)	30.0	2.3	PPG-PR 422	23.3	2.0	BRIGHTSTAR SLT	13.3	1.0
GATOR FORE (DLFPS-236/3544)	21.7	2.3	PST-2PDA	31.7	2.0	CAYMAN (GO-143)	15.0	1.0
GRAND SLAM GLD	33.3	2.3	SAGUARO	33.3	2.0	FIREBALL (BWH)	33.3	1.0
INTENSE	28.3	2.3	SHIELD (02BS4)	30.0	2.0	NEXUS GT (SNX)	18.3	1.0
LPB-SD-104	41.7	2.3	SIGNET	26.7	2.0	PPG-PR 367	20.0	1.0
PARADOX GLR (PPG-PR 331)	25.0	2.3	SILVER SPORT (PST-2CRP)	25.0	2.0			
PL2	33.3	2.3	SLIDER LS (PPG-PR 241)	23.3	2.0	LSD VALUE	16.0	1.0
PPG-PR 385	26.7	2.3	SUPERSTAR GL (PPG-PR 420)	30.0	2.0	C.V. (%)	28.3	27.7

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 45. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT FARGO, ND 2/
2017 DATA

NAME	SUMMER	FALL	MEAN	NAME	SUMMER	FALL	MEAN
CAYMAN (GO-143)	73.3	85.0	79.2	PST-2EGAD	45.0	60.0	52.5
EVOLVE	71.7	85.0	78.3	APR2612	46.7	56.7	51.7
BAR LP 6165	73.3	81.7	77.5	GATOR FORE (DLFPS-236/3544)	36.7	65.0	50.8
IVY (PST-2GTD)	71.7	80.0	75.8	STARBRIGHT GLX (PST-2BDT)	46.7	55.0	50.8
RAD-PR 112	68.3	81.7	75.0	021	43.3	56.7	50.0
ALLSTAR FORE (DLFPS-236/3541)	66.7	76.7	71.7	DLFPS-236/3552	43.3	55.0	49.2
SEABISCUIT	63.3	75.0	69.2	MYSTIQUE (DLFPS-236/3547)	40.0	56.7	48.3
LPB-SD-105	60.0	75.0	67.5	BRIGHTSTAR SLT	41.7	53.3	47.5
APR3060	61.7	71.7	66.7	BELIZE 2 (GO-142)	41.7	51.7	46.7
PST-2FOXY	58.3	75.0	66.7	ZOOM 2 (DLFPS-236/3545)	38.3	53.3	45.8
HELIOS (DLFPS-236/3538)	58.3	73.3	65.8	GRAY HAWK (PST-2FIND)	41.7	50.0	45.8
ALLSTAR III	56.7	73.3	65.0	PALMER SUPREME (PPG-PR 421)	38.3	53.3	45.8
GREEN SUPREME+ (AMP-R1)	56.7	73.3	65.0	DLFPS-236/3546	38.3	48.3	43.3
XCELERATOR	51.7	78.3	65.0	BAR LP 6131	36.7	48.3	42.5
PARADOX GLR (PPG-PR 331)	55.0	73.3	64.2	BAR LP 6158	35.0	50.0	42.5
PPG-PR 367	50.0	78.3	64.2	PST-2MAY	36.7	46.7	41.7
PORTFOLIO (PPG-PR 423)	55.0	73.3	64.2	LPB-SD-102	31.7	50.0	40.8
NEXUS GT (SNX)	53.3	75.0	64.2	MRSL-PR15	35.0	46.7	40.8
SPIKE GLS (UF3)	56.7	71.7	64.2	ASP0118GL (A-4G)	35.0	45.0	40.0
CS-6	55.0	71.7	63.3	CPN	33.3	45.0	39.2
DLFPS-236/3553	55.0	71.7	63.3	ALLOY (RRT)	33.3	45.0	39.2
ELEKTRA GLR (PPG-PR 371)	51.7	75.0	63.3	JR-888	28.3	48.3	38.3
PPG-PR 372	51.7	75.0	63.3	PL2	31.7	45.0	38.3
BAR LP 6164	58.3	66.7	62.5	PPG-PR 360	26.7	50.0	38.3
PARAGON 2 GLR (FP2)	56.7	68.3	62.5	SUPERSTAR GL (PPG-PR 420)	33.3	43.3	38.3
PHARAOH	53.3	71.7	62.5	APPLE 3GL (PPG-PR 339)	33.3	41.7	37.5
PST-2PDA	53.3	71.7	62.5	BAR LP 6162	33.3	40.0	36.7
NP-2	48.3	75.0	61.7	PPG-PR 370	28.3	45.0	36.7
PPG-PR 422	55.0	68.3	61.7	SLUGGER 3GL (PPG-PR 343)	30.0	43.3	36.7
SILVER SPORT (PST-2CRP)	56.7	66.7	61.7	DLFPS-236/3540	28.3	43.3	35.8
UMPQUA	56.7	66.7	61.7	GATOR CINCO (DLFPS-236/3548)	30.0	41.7	35.8
SUNBURST (02BS2)	50.0	71.7	60.8	DERBY XTREME	30.0	40.0	35.0
SLIDER LS (PPG-PR 241)	51.7	68.3	60.0	SR 4700 (DLFPS-236/3543)	28.3	41.7	35.0
SWIFT (PST-2A2)	51.7	66.7	59.2	NP-3	26.7	43.3	35.0
SHIELD (02BS4)	50.0	68.3	59.2	02BS1	31.7	36.7	34.2
DLFPS-236/3550	48.3	68.3	58.3	HATRICK (BSP-17)	28.3	40.0	34.2
BAR LP 6233	51.7	63.3	57.5	PR-5-16	30.0	38.3	34.2
ASP0218 (A-6D)	48.3	65.0	56.7	PR-6-15	30.0	38.3	34.2
FIESTA CINCO (DLFPS-236/3554)	51.7	60.0	55.8	DLFPS-238/3014	28.3	38.3	33.3
GO-141	48.3	63.3	55.8	FASTBALL 3GL (PPG-PR 329)	23.3	43.3	33.3
HOMERUN LS (PPG-PR 419)	46.7	65.0	55.8	OVERDRIVE 5G	26.7	38.3	32.5
LPB-SD-103	48.3	63.3	55.8	SR 4650	28.3	36.7	32.5
JR-123	45.0	65.0	55.0	FIREBALL (BWH)	23.3	40.0	31.7
ASP0117 (A-PR15)	45.0	61.7	53.3	PEPPER II (RAD-PR 103)	26.7	36.7	31.7
TEE-ME-UP (BSP-25)	45.0	61.7	53.3	APR2616	25.0	36.7	30.8
DLFPS-236/3556	43.3	63.3	53.3	PPG-PR 385	21.7	38.3	30.0
GRAY WOLF (PST-2GAL)	48.3	56.7	52.5	SIGNET	21.7	35.0	28.3
REVENGE 2GLX (JR-197)	48.3	56.7	52.5	CATALYST (023)	23.3	30.0	26.7

TABLE 45. CONT'D)

PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT FARGO, ND 2/
2017 DATA

NAME	SUMMER	FALL	MEAN
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
ASP0116EXT	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
MIGHTIER (DLFPS-236/3542)	10.0	18.3	14.2
KARMA	11.7	16.7	14.2
STELLAR 4GL (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
C.V. (%)	16.7	12.3	13.4
LSD VALUE	9.4	9.2	8.8

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 46. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT LOGAN, UT 2/
2016 DATA

NAME	SEPTEMBER	OCTOBER	MEAN	NAME	SEPTEMBER	OCTOBER	MEAN
SIGNET	46.7	80.0	63.3	GRAY HAWK (PST-2FIND)	36.7	63.3	50.0
PHARAOH	50.0	73.3	61.7	INTENSE	36.7	63.3	50.0
NP-2	46.7	73.3	60.0	LPB-SD-102	36.7	63.3	50.0
SR 4650	53.3	66.7	60.0	PPG-PR 367	33.3	66.7	50.0
SPIKE GLS (UF3)	46.7	70.0	58.3	PR-6-15	43.3	56.7	50.0
CATALYST (023)	40.0	73.3	56.7	UMPQUA	36.7	63.3	50.0
BAR LP 6233	40.0	73.3	56.7	021	33.3	63.3	48.3
CPN	46.7	66.7	56.7	SUNBURST (02BS2)	33.3	63.3	48.3
JR-747	43.3	70.0	56.7	CS-6	36.7	60.0	48.3
OVERDRIVE 5G	36.7	76.7	56.7	ZOOM 2 (DLFPS-236/3545)	33.3	63.3	48.3
ELEKTRA GLR (PPG-PR 371)	43.3	70.0	56.7	FASTBALL 3GL (PPG-PR 329)	36.7	60.0	48.3
ASP0116EXT	43.3	66.7	55.0	JR-888	36.7	60.0	48.3
ASP0118GL (A-4G)	40.0	70.0	55.0	PST-2PDA	33.3	63.3	48.3
BAR LP 6158	40.0	70.0	55.0	SLIDER LS (PPG-PR 241)	36.7	60.0	48.3
BAR LP 6159	40.0	70.0	55.0	ASP0218 (A-6D)	33.3	60.0	46.7
HATRICK (BSP-17)	43.3	66.7	55.0	BAR LP 6131	33.3	60.0	46.7
FIREBALL (BWH)	43.3	66.7	55.0	BAR LP 6165	30.0	63.3	46.7
DLFPS-236/3550	36.7	73.3	55.0	TEE-ME-UP (BSP-25)	36.7	56.7	46.7
EVOLVE	46.7	63.3	55.0	DERBY XTREME	33.3	60.0	46.7
PPG-PR 370	40.0	70.0	55.0	HELIOS (DLFPS-236/3538)	33.3	60.0	46.7
SAVANT	36.7	73.3	55.0	GATOR CINCO (DLFPS-236/3548)	33.3	60.0	46.7
NEXUS GT (SNX)	40.0	70.0	55.0	DLFPS-236/3553	33.3	60.0	46.7
APR2616	40.0	66.7	53.3	FIESTA CINCO (DLFPS-236/3554)	33.3	60.0	46.7
BAR LP 6117	40.0	66.7	53.3	GRAY WOLF (PST-2GAL)	30.0	63.3	46.7
ALLSTAR FORE (DLFPS-236/3541)	36.7	70.0	53.3	LINN	26.7	66.7	46.7
DLFPS-236/3556	40.0	66.7	53.3	MRSL-PR16	30.0	63.3	46.7
PARAGON 2 GLR (FP2)	40.0	66.7	53.3	PEPPER II (RAD-PR 103)	33.3	60.0	46.7
HOMERUN LS (PPG-PR 419)	43.3	63.3	53.3	PPG-PR 360	30.0	63.3	46.7
NP-3	40.0	66.7	53.3	SUPERSTAR GL (PPG-PR 420)	33.3	60.0	46.7
PORTFOLIO (PPG-PR 423)	36.7	70.0	53.3	PPG-PR 422	36.7	56.7	46.7
APPLE 3GL (PPG-PR 339)	36.7	66.7	51.7	SWIFT (PST-2A2)	33.3	60.0	46.7
BRIGHTSTAR SLT	36.7	66.7	51.7	STARBRIGHT GLX (PST-2BDT)	36.7	56.7	46.7
MIGHTIER (DLFPS-236/3542)	36.7	66.7	51.7	RAD-PR 112	30.0	63.3	46.7
SR 4700 (DLFPS-236/3543)	40.0	63.3	51.7	ASP0117 (A-PR15)	30.0	60.0	45.0
GRAND SLAM GLD	33.3	70.0	51.7	BAR LP 6162	30.0	60.0	45.0
JR-123	33.3	70.0	51.7	BAR LP 6164	33.3	56.7	45.0
REVENGE 2GLX (JR-197)	43.3	60.0	51.7	MYSTIQUE (DLFPS-236/3547)	33.3	56.7	45.0
LPB-SD-101	36.7	66.7	51.7	BELIZE 2 (GO-142)	33.3	56.7	45.0
LPB-SD-103	33.3	70.0	51.7	MENSA	30.0	60.0	45.0
PPG-PR 385	36.7	66.7	51.7	PL2	26.7	63.3	45.0
STELLAR 4GL (PPG-PR 424)	40.0	63.3	51.7	PARADOX GLR (PPG-PR 331)	33.3	56.7	45.0
PST-2EGAD	36.7	66.7	51.7	PR-5-16	30.0	60.0	45.0
PST-2MAY	36.7	66.7	51.7	IVY (PST-2GTD)	36.7	53.3	45.0
SHIELD (02BS4)	43.3	60.0	51.7	GREEN SUPREME+ (AMP-R1)	26.7	60.0	43.3
XCELERATOR	36.7	66.7	51.7	APR2612	30.0	56.7	43.3
ALLSTAR III	33.3	66.7	50.0	DLFPS-236/3552	33.3	53.3	43.3
DLFPS-236/3540	40.0	60.0	50.0	FURLONG (LTP-FCB)	30.0	56.7	43.3
CAYMAN (GO-143)	43.3	56.7	50.0	LPB-SD-104	30.0	56.7	43.3

TABLE 46. (CONT'D) PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/ AT LOGAN, UT 2/ 2016 DATA

NAME	SEPTEMBER	OCTOBER	MEAN
MAN O WAR	30.0	56.7	43.3
MRSL-PR15	33.3	53.3	43.3
PPG-PR 372	30.0	56.7	43.3
PALMER SUPREME (PPG-PR 421)	30.0	56.7	43.3
SAGUARO	30.0	56.7	43.3
SEABISCUIT	30.0	56.7	43.3
02BS1	30.0	53.3	41.7
GO-141	23.3	56.7	40.0
LPB-SD-105	23.3	56.7	40.0
ALLOY (RRT)	23.3	56.7	40.0
SILVER SPORT (PST-2CRP)	30.0	50.0	40.0
GATOR FORE (DLFPS-236/3544)	26.7	50.0	38.3
DLFPS-238/3014	26.7	50.0	38.3
KARMA	26.7	50.0	38.3
APR3060	23.3	50.0	36.7
SLUGGER 3GL (PPG-PR 343)	20.0	53.3	36.7
DLFPS-236/3546	23.3	43.3	33.3
PST-2FOXY	20.0	43.3	31.7
C.V. (%)	25.6	14.6	16.1
LSD VALUE	23.5	21.2	18.0

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

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

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS */
2017-2021 DATA

TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/	NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
021	5.8	26.1	GRAY WOLF (PST-2GAL)	5.8	34.8
02BS1	5.7	17.4	GREEN SUPREME+ (AMP-R1)	5.3	0.0
ALLOY (RRT)	5.9	43.5	HATRICK (BSP-17)	5.4	8.7
ALLSTAR FORE (DLFPS-236/3541)	5.8	34.8	HELIOS (DLFPS-236/3538)	5.8	34.8
ALLSTAR III	5.2	4.3	HOMERUN LS (PPG-PR 419)	6.0	34.8
APPLE 3GL (PPG-PR 339)	5.9	34.8	INTENSE	5.7	26.1
APR2612	5.4	0.0	IVY (PST-2GTD)	5.8	26.1
APR2616	5.7	17.4	JR-123	5.6	17.4
APR3060	5.6	17.4	REVENGE 2GLX (JR-197)	6.0	43.5
ASP0116EXT	5.5	13.0	JR-747	5.1	8.7
ASP0117 (A-PR15)	5.7	8.7	JR-888	5.3	4.3
ASP0118GL (A-4G)	5.6	0.0	KARMA	5.5	4.3
ASP0218 (A-6D)	5.6	17.4	LINN	3.3	0.0
BAR LP 6117	5.5	8.7	LPB-SD-101	5.2	4.3
BAR LP 6131	5.4	8.7	LPB-SD-102	5.3	8.7
BAR LP 6158	5.4	8.7	LPB-SD-103	5.2	4.3
BAR LP 6159	5.4	4.3	LPB-SD-104	4.9	0.0
BAR LP 6162	5.0	4.3	LPB-SD-105	5.0	4.3
BAR LP 6164	5.7	13.0	MAN O WAR	5.6	17.4
BAR LP 6165	5.4	17.4	MENSA	5.2	0.0
BAR LP 6233	5.6	21.7	MIGHTIER (DLFPS-236/3542)	5.8	34.8
BELIZE 2 (GO-142)	5.3	8.7	MRSL-PR15	5.4	0.0
BRIGHTSTAR SLT	5.1	4.3	MRSL-PR16	5.5	8.7
CATALYST (023)	5.8	26.1	MYSTIQUE (DLFPS-236/3547)	6.0	56.5
CAYMAN (GO-143)	5.2	4.3	NEXUS GT (SNX)	5.4	0.0
CPN	5.8	21.7	NP-2	6.0	47.8
CS-6	5.5	4.3	NP-3	6.0	39.1
DERBY XTREME	5.5	8.7	OVERDRIVE 5G	5.8	30.4
DLFPS-236/3540	5.8	21.7	PARADOX GLR (PPG-PR 331)	5.9	39.1
DLFPS-236/3546	6.0	34.8	PARAGON 2 GLR (FP2)	5.9	26.1
DLFPS-236/3550	5.8	21.7	PEPPER II (RAD-PR 103)	5.4	8.7
DLFPS-236/3552	5.9	52.2	PHARAOH	5.8	26.1
DLFPS-236/3553	5.8	26.1	PL2	6.0	43.5
DLFPS-236/3556	5.9	43.5	PPG-PR 360	5.9	26.1
DLFPS-238/3014	5.3	17.4	PPG-PR 367	5.9	39.1
EVOLVE	5.4	4.3	PPG-PR 370	5.9	30.4
FASTBALL 3GL (PPG-PR 329)	5.9	30.4	ELEKTRA GLR (PPG-PR 371)	5.9	39.1
FIESTA CINCO (DLFPS-236/3554)	6.1	65.2	PPG-PR 372	6.0	60.9
FIREBALL (BWH)	5.2	4.3	PPG-PR 385	5.7	8.7
FURLONG (LTP-FCB)	6.1	56.5	PALMER SUPREME (PPG-PR 421)	6.1	69.6
GATOR CINCO (DLFPS-236/3548)	5.9	43.5	PPG-PR 422	6.0	39.1
GATOR FORE (DLFPS-236/3544)	6.0	52.2	PORTFOLIO (PPG-PR 423)	6.0	47.8
GO-141	5.3	0.0	PR-5-16	5.9	17.4
GRAND SLAM GLD	5.7	13.0	PR-6-15	5.9	30.4
GRAY HAWK (PST-2FIND)	5.6	8.7	PST-2EGAD	5.6	8.7

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS */
(CONT'D) 2017-2021 DATA

TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
PST-2FOXY	5.8	26.1
PST-2MAY	5.7	17.4
PST-2PDA	5.5	4.3
RAD-PR 112	5.4	17.4
SAGUARO	5.4	4.3
SAVANT	5.2	13.0
SEABISCUIT	5.7	17.4
SHIELD (02BS4)	5.8	17.4
SIGNET	5.7	8.7
SILVER SPORT (PST-2CRP)	5.9	43.5
SLIDER LS (PPG-PR 241)	5.8	21.7
SLUGGER 3GL (PPG-PR 343)	6.0	60.9
SPIKE GLS (UF3)	5.8	17.4
SR 4650	5.6	0.0
SR 4700 (DLFPS-236/3543)	6.0	52.2
STARBRIGHT GLX (PST-2BDT)	5.6	4.3
STELLAR 4GL (PPG-PR 424)	6.1	56.5
SUNBURST (02BS2)	5.9	39.1
SUPERSTAR GL (PPG-PR 420)	6.0	34.8
SWIFT (PST-2A2)	5.8	30.4
TEE-ME-UP (BSP-25)	5.4	4.3
UMPQUA	5.9	26.1
XCELERATOR	5.9	26.1
ZOOM 2 (DLFPS-236/3545)	5.9	47.8
LSD VALUE	0.3	
C.V. (%)	11.1	

*/ 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).

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

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ MAXIMUM IN TOP 25% THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.