

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 2021

State	Location	Code
Connecticut	Storrs	CT1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Massachusetts	Amherst	MA1
Maryland	College Park	MD1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
Oregon	Corvallis	OR1
Oregon	Corvallis (Traffic)	OR2
Utah	Logan	UT1
Utah	Logan (Drought)	UT2
Virginia	Blacksburg	VA1
Wisconsin	Madison (Traffic)	WI1

2016 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

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

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

TABLE A.

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
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
KS1	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MA1	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	2.1-3.0	FULL SUN	1.6-2.0	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
MN1	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	2.1-3.0	FULL SUN	2.1-2.5	NO IRRIGATION
MO1	-	-	-	-	-	-	-	-
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	376-500	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	-	-	-	FULL SUN	2.6-3.0	TO PREVENT STRESS
UT2	SILT LOAM AND SILT	7.1-7.5	-	-	-	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
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 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
CT1				X	X	X	X	X	X	X		
IA1				X	X	X	X	X	X	X		
KS1				X	X	X	X	X	X			
MA1				X	X	X	X	X	X	X	X	
MD1					X	X	X	X	X	X	X	
MN1					X	X	X	X	X			
MO1				X	X	X	X	X	X	X	X	
NE1				X	X	X	X	X	X	X		
NJ2				X	X	X	X	X	X	X		
OR1	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
UT1					X	X	X	X	X	X		
UT2					X	X	X	X	X	X		
VA1				X	X	X	X	X	X	X		
WI1					X	X	X	X	X	X	X	

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2021

LOCATION	GENETIC COLOR	SPRING GREENUP	WEAR TOLERANCE	PERCENT COVER SPRING	PERCENT COVER FALL	RED THREAD	BROWN PATCH WARM TEMP.	CROWN RUST	WEAR TOLERANCE	PERCENT POA ANNUA
CT1	X	X								
IA1	X	X								
KS1		X								
MA1									X	
MD1										
MN1	X							X		
MO1	X			X	X	X	X			
NE1	X	X								
NJ2			X						X	X
OR1	X									
OR2	X									
UT1	X	X								
UT2		X								
VA1				X	X					
WI1										

* MORE TRAFFIC DATA FOR MA1 AND NJ2 IN TABLE 12 AND 24.

TABLE 1. 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
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
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
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 1. 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 1. 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 2.

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
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
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 2.
(CONT'D)

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
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
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 2.
(CONT'D)

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
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 3. 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
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
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 3. 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
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 3. 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
MRSI-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 4.

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	KS1	NE1	NJ2	MEAN
FURLONG (LTP-FCB)	6.7	6.8	6.8	6.8
MYSTIQUE (DLFPS-236/3547)	6.6	6.8	6.7	6.7
DLFPS-236/3546	6.6	6.6	6.9	6.7
STELLAR 4GL (PPG-PR 424)	6.4	7.0	6.6	6.7
JR-197	6.7	6.8	6.4	6.6
SR 4700 (DLFPS-236/3543)	6.6	6.9	6.2	6.6
PALMER SUPREME (PPG-PR 421)	6.5	7.0	6.2	6.6
ALLOY (RRT)	6.7	6.7	6.1	6.5
PPG-PR 372	6.5	7.1	5.8	6.5
SUNBURST (02BS2)	6.7	6.4	6.3	6.5
DLFPS-236/3556	6.6	6.3	6.5	6.5
CATALYST (023)	6.7	6.4	6.3	6.5
DLFPS-236/3552	6.5	7.0	5.8	6.5
PPG-PR 371	6.7	6.9	5.7	6.4
PPG-PR 370	6.6	7.0	5.7	6.4
GATOR CINCO (DLFPS-236/3548)	6.6	6.5	6.1	6.4
SLUGGER 3GL (PPG-PR 343)	6.5	6.4	6.3	6.4
PHARAOH	6.8	6.7	5.7	6.4
ZOOM 2 (DLFPS-236/3545)	6.5	6.6	6.1	6.4
APPLE 3GL (PPG-PR 339)	6.4	6.9	5.8	6.4
HOMERUN LS (PPG-PR 419)	6.7	6.7	5.7	6.3
UMPQUA	6.4	6.2	6.3	6.3
FASTBALL 3GL (PPG-PR 329)	6.6	6.8	5.6	6.3
ALLSTAR FORE (DLFPS-236/3541)	6.5	6.6	5.8	6.3
021	6.2	6.3	6.4	6.3
MAN O WAR	6.4	6.1	6.3	6.3
FIESTA CINCO (DLFPS-236/3554)	6.4	6.3	6.1	6.3
NP-3	6.6	6.5	5.8	6.3
PPG-PR 360	6.6	6.6	5.7	6.3
SHIELD (02BS4)	6.3	6.4	6.1	6.3
CPN	6.6	6.8	5.5	6.3
SUPERSTAR GL (PPG-PR 420)	6.5	6.5	5.8	6.3
XCELERATOR	6.6	6.2	5.9	6.3
PL2	6.1	6.5	6.1	6.2
PR-6-15	6.5	7.0	5.2	6.2
MIGHTIER (DLFPS-236/3542)	6.6	6.5	5.5	6.2
HELIOS (DLFPS-236/3538)	6.2	6.4	6.0	6.2
NP-2	6.5	6.4	5.7	6.2
DLFPS-236/3550	6.7	6.5	5.4	6.2
PPG-PR 423	6.4	6.4	5.8	6.2
SR 4650	6.7	6.2	5.6	6.2
02BS1	6.6	6.8	5.1	6.2
SEABISCUIT	6.4	6.4	5.7	6.2
OVERDRIVE 5G	6.4	6.6	5.5	6.2

TABLE 4.
(CONT'D)

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

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

NAME	KS1	NE1	NJ2	MEAN
DLFPS-236/3553	6.6	6.7	5.2	6.2
PARAGON 2 GLR (FP2)	6.7	6.7	5.1	6.1
SPIKE GLS (UF3)	6.3	6.5	5.6	6.1
GATOR FORE (DLFPS-236/3544)	6.6	6.6	5.2	6.1
SWIFT (PST-2A2)	6.6	6.4	5.3	6.1
PR-5-16	6.5	6.4	5.4	6.1
APR2616	6.1	6.7	5.5	6.1
GRAY WOLF (PST-2GAL)	6.3	6.5	5.5	6.1
SIGNET	6.4	6.8	5.1	6.1
INTENSE	6.7	6.0	5.5	6.1
PST-2EGAD	6.6	6.9	4.8	6.1
GRAND SLAM GLD	6.6	6.1	5.4	6.1
APR2612	6.6	6.4	5.2	6.1
SILVER SPORT (PST-2CRP)	6.7	6.5	5.0	6.1
APR3060	6.6	6.7	4.9	6.0
PPG-PR 422	6.3	6.6	5.2	6.0
IVY (PST-2GTD)	6.6	6.3	5.2	6.0
BAR LP 6117	6.4	7.0	4.6	6.0
PARADOX GLR (PPG-PR 331)	6.3	6.4	5.2	6.0
STARBRIGHT GLX (PST-2BDT)	6.6	6.7	4.6	5.9
BAR LP 6159	6.6	6.7	4.4	5.9
PST-2PDA	6.2	6.5	5.0	5.9
DLFPS-236/3540	6.2	6.8	4.8	5.9
BAR LP 6233	6.1	6.2	5.4	5.9
ASP0117 (A-PR15)	6.6	6.7	4.5	5.9
LPB-SD-102	6.3	6.6	4.8	5.9
MENSA	6.4	6.3	4.9	5.9
ASP0118GL (A-4G)	6.4	6.5	4.7	5.9
PPG-PR 385	6.5	6.0	5.1	5.8
PPG-PR 367	6.7	6.5	4.4	5.8
SAVANT	6.5	6.1	4.9	5.8
JR-123	6.7	6.3	4.5	5.8
BAR LP 6131	6.6	6.2	4.7	5.8
JR-888	6.4	6.1	5.0	5.8
GRAY HAWK (PST-2FIND)	6.3	6.5	4.6	5.8
PST-2FOXY	6.4	6.4	4.6	5.8
MRS-L-PR15	6.1	6.3	4.9	5.8
BAR LP 6158	6.7	6.0	4.7	5.8
SLIDER LS (PPG-PR 241)	6.3	6.6	4.4	5.7
DERBY XTREME	6.5	6.7	4.0	5.7
LPB-SD-103	6.6	6.2	4.4	5.7
PST-2MAY	.	6.5	4.9	5.7
EVOLVE	6.7	6.3	4.0	5.7
ALLSTAR III	6.6	6.2	4.2	5.7
JR-747	6.5	6.4	4.0	5.6

TABLE 4.
(CONT'D)

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	KS1	NE1	NJ2	MEAN
SAGUARO	6.4	6.3	4.1	5.6
TEE-ME-UP (BSP-25)	6.3	6.1	4.4	5.6
RAD-PR 112	6.6	5.7	4.6	5.6
PEPPER II (RAD-PR 103)	6.6	6.2	4.0	5.6
BAR LP 6165	5.9	5.2	5.7	5.6
LPB-SD-104	5.9	6.3	4.6	5.6
MRS�-PR16	6.8	6.2	3.9	5.6
BAR LP 6164	6.4	6.3	4.1	5.6
HATRICK (BSP-17)	6.4	6.3	4.1	5.6
CAYMAN (GO-143)	6.4	7.0	3.2	5.6
KARMA	.	6.4	4.8	5.6
GREEN SUPREME+ (AMP-R1)	6.7	6.2	3.8	5.6
CS-6	6.4	6.3	3.9	5.5
BELIZE 2 (GO-142)	6.7	6.4	3.5	5.5
GO-141	6.6	6.2	3.8	5.5
NEXUS GT (SNX)	6.7	6.0	3.7	5.5
ASP0116EXT	6.4	6.4	3.6	5.5
LPB-SD-101	6.2	6.2	3.9	5.4
LPB-SD-105	6.2	6.2	3.7	5.4
FIREBALL (BWH)	6.8	6.3	3.0	5.4
DLFPS-238/3014	6.5	6.1	3.3	5.3
ASP0218 (A-6D)	6.4	6.1	3.2	5.3
BAR LP 6162	6.6	6.1	3.1	5.3
BRIGHTSTAR SLT	6.4	6.3	3.0	5.3
LINN	3.8	4.9	1.6	3.4
LSD VALUE	0.5	0.5	1.0	0.4
C.V. (%)	4.5	4.6	12.1	7.1

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ SCHEDULE A: (HIGH MAINTENANCE/FAIRWAY) MOWING HEIGHT: 0.5" TO 0.75", NITROGEN RATE (lbs. N/1000 sq.ft./ GROWING MONTH): 0.5-0.75. IRRIGATION TO PREVENT VISUAL DROUGHT STRESS AND DORMANCY. FUNGICIDE USE ONLY IF SEVERE STAND LOSS IS POSSIBLE. WEED AND INSECT CONTROL TO PREVENT STAND LOSS.

TABLE 5.

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

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

NAME	OR1	VA1	MEAN
ALLOY (RRT)	7.1	7.0	7.1
ZOOM 2 (DLFPS-236/3545)	6.7	7.4	7.0
SLUGGER 3GL (PPG-PR 343)	6.9	7.0	7.0
DLFPS-236/3556	7.1	6.9	7.0
SILVER SPORT (PST-2CRP)	6.8	7.2	7.0
FURLONG (LTP-FCB)	7.2	6.7	7.0
MYSTIQUE (DLFPS-236/3547)	7.1	6.7	6.9
STELLAR 4GL (PPG-PR 424)	7.1	6.7	6.9
PL2	6.5	7.3	6.9
PPG-PR 372	7.2	6.6	6.9
PPG-PR 367	7.1	6.6	6.9
GATOR FORE (DLFPS-236/3544)	6.9	6.8	6.8
UMPQUA	6.9	6.8	6.8
PST-2FOXY	7.2	6.5	6.8
APPLE 3GL (PPG-PR 339)	7.2	6.4	6.8
BAR LP 6233	6.1	7.3	6.7
SLIDER LS (PPG-PR 241)	6.6	6.8	6.7
GRAND SLAM GLD	6.7	6.8	6.7
021	6.7	6.7	6.7
APR2616	6.4	7.0	6.7
JR-197	7.1	6.3	6.7
PPG-PR 422	7.1	6.3	6.7
PR-5-16	6.5	6.9	6.7
PPG-PR 371	6.8	6.5	6.7
SR 4700 (DLFPS-236/3543)	6.9	6.4	6.7
HOMERUN LS (PPG-PR 419)	6.9	6.4	6.6
PPG-PR 360	6.8	6.4	6.6
PPG-PR 385	6.6	6.6	6.6
SUPERSTAR GL (PPG-PR 420)	7.0	6.2	6.6
PALMER SUPREME (PPG-PR 421)	6.8	6.5	6.6
PR-6-15	6.9	6.3	6.6
DLFPS-236/3546	7.1	6.1	6.6
ALLSTAR FORE (DLFPS-236/3541)	7.0	6.1	6.6
XCELERATOR	6.7	6.5	6.6
DLFPS-236/3550	6.7	6.4	6.5
APR3060	6.2	6.9	6.5
CS-6	6.7	6.4	6.5
HELIOS (DLFPS-236/3538)	6.4	6.7	6.5
NP-3	6.9	6.2	6.5
KARMA	6.9	6.1	6.5
DLFPS-236/3552	7.0	6.0	6.5
NP-2	6.9	6.0	6.5
PHARAOH	7.1	5.9	6.5
PARAGON 2 GLR (FP2)	7.0	6.0	6.5

TABLE 5.
(CONT'D)

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

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

NAME	OR1	VA1	MEAN
PST-2MAY	6.9	6.0	6.5
SPIKE GLS (UF3)	6.8	6.1	6.5
FASTBALL 3GL (PPG-PR 329)	6.7	6.2	6.5
ASPO218 (A-6D)	6.7	6.2	6.5
BAR LP 6164	6.3	6.6	6.5
GRAY WOLF (PST-2GAL)	6.5	6.4	6.4
CPN	6.7	6.1	6.4
SHIELD (02BS4)	6.5	6.3	6.4
02BS1	6.9	5.9	6.4
DLFPS-236/3553	6.8	6.0	6.4
SUNBURST (02BS2)	6.9	5.9	6.4
SIGNET	6.3	6.4	6.4
CATALYST (023)	6.8	6.0	6.4
TEE-ME-UP (BSP-25)	6.6	6.2	6.4
PARADOX GLR (PPG-PR 331)	6.8	5.9	6.4
FIESTA CINCO (DLFPS-236/3554)	6.4	6.3	6.4
APR2612	6.5	6.2	6.4
BAR LP 6165	6.1	6.6	6.4
PPG-PR 370	6.5	6.2	6.4
OVERDRIVE 5G	6.9	5.8	6.4
PPG-PR 423	6.6	6.0	6.3
IVY (PST-2GTD)	6.5	6.1	6.3
SEABISCUIT	6.8	5.9	6.3
ASPO118GL (A-4G)	6.8	5.9	6.3
SWIFT (PST-2A2)	6.9	5.8	6.3
ASPO117 (A-PR15)	6.6	6.0	6.3
MIGHTIER (DLFPS-236/3542)	6.8	5.9	6.3
BAR LP 6159	6.4	6.2	6.3
BAR LP 6158	6.2	6.4	6.3
NEXUS GT (SNX)	6.6	6.0	6.3
EVOLVE	6.1	6.4	6.2
BAR LP 6117	6.3	6.1	6.2
INTENSE	6.8	5.7	6.2
GO-141	6.4	6.0	6.2
GATOR CINCO (DLFPS-236/3548)	6.9	5.6	6.2
ASPO116EXT	6.5	6.0	6.2
MRS-L-PR16	6.2	6.2	6.2
SR 4650	6.6	5.9	6.2
PEPPER II (RAD-PR 103)	6.7	5.7	6.2
STARBRIGHT GLX (PST-2BDT)	6.5	5.8	6.2
BAR LP 6131	6.2	6.1	6.2
DLFPS-236/3540	6.5	5.9	6.2
JR-747	6.3	6.0	6.2
LPB-SD-102	6.7	5.6	6.1
HATRICK (BSP-17)	6.5	5.8	6.1

TABLE 5.
(CONT'D)

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

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

NAME	OR1	VA1	MEAN
RAD-PR 112	6.8	5.5	6.1
JR-123	6.8	5.5	6.1
GREEN SUPREME+ (AMP-R1)	6.4	5.9	6.1
GRAY HAWK (PST-2FIND)	6.5	5.7	6.1
BAR LP 6162	6.3	5.9	6.1
MRS-L-PR15	6.3	5.8	6.1
PST-2EGAD	6.6	5.4	6.0
DLFPS-238/3014	6.0	6.0	6.0
DERBY XTREME	7.1	4.9	6.0
JR-888	6.1	5.8	6.0
MAN O WAR	6.8	5.1	6.0
FIREBALL (BWH)	6.6	5.3	6.0
PST-2PDA	6.0	5.9	6.0
CAYMAN (GO-143)	6.4	5.4	5.9
BELIZE 2 (GO-142)	6.4	5.4	5.9
LPB-SD-105	6.3	5.6	5.9
LPB-SD-101	6.5	5.2	5.8
LPB-SD-104	6.3	5.3	5.8
LINN	5.6	6.0	5.8
SAVANT	6.3	5.3	5.8
LPB-SD-103	6.3	5.3	5.8
SAGUARO	6.2	5.1	5.7
ALLSTAR III	6.2	5.0	5.6
MENSA	6.2	4.9	5.5
BRIGHTSTAR SLT	6.1	5.0	5.5
LSD VALUE	0.5	1.1	0.6
C.V. (%)	4.6	11.4	8.5

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD): MOWING HEIGHT: 1.0"-2.0". NITROGEN RATE (lbs. N/1000 sq.ft/ GROWING MONTH): 0.5-1.0 (HIGH RATE USED DURING ESTABLISHMENT ONLY) IRRIGATION: TO PREVENT DORMANCY, ONLY DURING SEVERE STRESS OR NONE. FUNGICIDE USE ONLY IF SEVERE STAND LOSS IS POSSIBLE. WEED AND INSECT CONTROL TO PREVENT STAND LOSS.

TABLE 6.

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	CT1	IA1	MD1	MN1	MO1	UT1	MEAN
DLFPS-236/3546	5.8	5.4	6.2	5.2	5.3	6.4	5.7
PL2	6.5	5.5	6.0	5.2	4.8	6.3	5.7
HOMERUN LS (PPG-PR 419)	6.2	5.6	6.1	5.1	4.7	6.5	5.7
APPLE 3GL (PPG-PR 339)	5.4	5.7	6.4	5.1	5.3	6.2	5.7
NP-3	6.1	5.4	5.9	4.9	5.0	6.8	5.7
STELLAR 4GL (PPG-PR 424)	6.3	5.2	6.4	5.1	4.6	6.4	5.7
PALMER SUPREME (PPG-PR 421)	6.3	5.6	6.1	4.7	4.9	6.2	5.6
PPG-PR 372	6.1	5.0	6.2	4.8	5.3	6.4	5.6
GATOR FORE (DLFPS-236/3544)	6.0	4.9	6.4	5.6	4.8	6.2	5.6
SUPERSTAR GL (PPG-PR 420)	5.8	4.9	6.0	5.2	5.4	6.3	5.6
PPG-PR 423	6.1	5.5	6.2	5.0	5.0	5.8	5.6
ZOOM 2 (DLFPS-236/3545)	6.6	5.6	6.2	4.8	4.0	6.2	5.6
SUNBURST (02BS2)	6.3	4.8	6.4	4.9	4.9	6.0	5.6
XCELERATOR	5.6	5.7	5.8	4.9	5.1	6.1	5.6
FIESTA CINCO (DLFPS-236/3554)	5.5	5.2	6.4	4.6	5.5	6.1	5.5
FURLONG (LTP-FCB)	5.6	4.7	6.4	5.1	5.4	6.1	5.5
PPG-PR 422	6.4	4.8	5.9	4.8	4.9	6.3	5.5
DLFPS-236/3552	6.0	4.9	6.2	4.5	4.9	6.6	5.5
SLIDER LS (PPG-PR 241)	5.9	5.1	6.0	5.1	4.8	6.2	5.5
PST-2FOXY	6.1	5.4	6.2	4.1	5.1	6.0	5.5
PPG-PR 367	6.2	5.0	6.3	5.3	4.9	5.3	5.5
NP-2	5.9	5.1	5.8	5.3	4.5	6.3	5.5
SHIELD (02BS4)	6.3	5.0	6.2	4.6	4.9	5.9	5.5
PHARAOH	6.3	5.6	6.4	4.5	4.6	5.6	5.5
FASTBALL 3GL (PPG-PR 329)	5.3	4.9	6.4	5.3	4.7	6.2	5.5
SR 4700 (DLFPS-236/3543)	5.8	5.2	6.3	4.9	4.6	6.0	5.5
PPG-PR 385	5.7	5.4	5.8	4.9	4.8	6.1	5.5
SILVER SPORT (PST-2CRP)	4.9	5.8	6.2	4.9	4.8	6.2	5.5
02BS1	6.0	5.5	6.0	4.8	4.3	6.2	5.5
CATALYST (023)	5.7	5.3	5.8	5.1	4.5	6.3	5.5
HELIOS (DLFPS-236/3538)	5.9	5.6	6.0	4.3	5.4	5.4	5.5
DLFPS-236/3553	5.4	5.1	5.9	4.7	5.3	6.2	5.4
PPG-PR 360	6.1	5.3	5.9	4.6	4.6	6.1	5.4
PPG-PR 370	5.8	4.5	6.0	4.7	5.0	6.7	5.4
SEABISCUIT	5.6	6.5	6.0	4.2	4.8	5.5	5.4
SLUGGER 3GL (PPG-PR 343)	5.6	4.8	6.1	5.0	4.8	6.3	5.4
PPG-PR 371	5.9	4.6	6.1	5.0	5.1	5.9	5.4
PR-5-16	5.5	5.0	5.9	4.9	4.9	6.3	5.4
JR-197	5.9	5.1	6.0	5.0	4.5	5.9	5.4
MYSTIQUE (DLFPS-236/3547)	5.6	5.0	5.8	4.7	5.1	6.2	5.4
GATOR CINCO (DLFPS-236/3548)	5.6	5.2	5.8	4.7	4.8	6.2	5.4
IVY (PST-2GTD)	5.8	5.8	6.0	4.6	4.5	5.6	5.4
UMPQUA	5.3	6.0	6.3	4.9	3.8	5.9	5.4
021	5.4	5.0	6.1	5.0	4.6	6.1	5.4

TABLE 6.
(CONT'D)

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

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

NAME	CT1	IA1	MD1	MN1	MO1	UT1	MEAN
PR-6-15	5.8	4.8	6.1	5.1	4.0	6.3	5.4
BAR LP 6233	5.5	6.4	5.9	3.9	4.9	5.5	5.3
PST-2MAY	5.7	5.3	5.7	4.5	4.9	5.9	5.3
ASP0118GL (A-4G)	5.2	5.5	5.9	4.6	4.8	6.0	5.3
CPN	6.0	5.2	5.8	4.7	4.4	5.8	5.3
OVERDRIVE 5G	5.8	5.4	5.6	5.1	4.3	5.8	5.3
PARADOX GLR (PPG-PR 331)	5.9	4.7	6.0	5.1	4.1	6.1	5.3
ALLOY (RRT)	6.1	4.5	5.8	4.2	4.8	6.4	5.3
PARAGON 2 GLR (FP2)	5.4	5.1	5.6	4.8	4.9	6.0	5.3
GRAY WOLF (PST-2GAL)	5.6	6.0	5.6	3.9	4.5	6.1	5.3
DLFPS-236/3556	5.4	4.6	6.1	5.3	4.4	5.9	5.3
BAR LP 6117	5.6	5.6	5.9	4.2	4.9	5.6	5.3
APR3060	5.1	5.9	5.8	4.4	4.9	5.6	5.3
BAR LP 6164	5.2	5.5	6.0	4.7	4.6	5.7	5.3
SPIKE GLS (UF3)	5.8	5.7	5.3	4.7	4.2	5.8	5.3
MAN O WAR	5.5	5.7	6.2	4.7	3.8	5.5	5.2
JR-123	5.7	4.8	5.7	4.5	4.9	5.6	5.2
SR 4650	5.7	5.5	5.6	4.7	3.4	6.2	5.2
DLFPS-236/3540	5.9	5.0	5.4	4.6	4.1	6.1	5.2
DLFPS-236/3550	5.4	4.3	6.1	4.7	4.6	5.8	5.2
GRAY HAWK (PST-2FIND)	4.9	5.8	6.1	4.6	4.3	5.3	5.2
GRAND SLAM GLD	5.0	5.3	6.3	4.3	4.3	5.7	5.1
PST-2EGAD	4.8	6.1	6.0	4.4	4.6	4.9	5.1
SWIFT (PST-2A2)	5.8	5.1	5.6	4.3	3.9	6.2	5.1
DLFPS-238/3014	5.1	6.6	5.5	3.9	4.8	4.8	5.1
SIGNET	5.8	4.6	5.4	4.6	4.0	6.3	5.1
PST-2PDA	5.6	5.7	5.7	4.2	3.9	5.6	5.1
STARBRIGHT GLX (PST-2BDT)	6.0	5.1	5.3	4.1	4.4	5.5	5.1
BAR LP 6159	5.1	5.6	5.8	4.1	4.3	5.7	5.1
MIGHTIER (DLFPS-236/3542)	5.6	5.2	5.6	3.6	4.1	6.4	5.1
ASP0117 (A-PR15)	5.3	4.9	5.6	4.6	4.1	5.9	5.1
BAR LP 6158	5.1	5.8	5.1	4.2	4.6	5.6	5.1
PEPPER II (RAD-PR 103)	4.7	6.0	5.3	3.7	4.9	5.7	5.0
ALLSTAR FORE (DLFPS-236/3541)	5.1	4.8	6.3	4.5	3.9	5.8	5.0
KARMA	5.6	4.6	5.6	4.5	3.5	6.2	5.0
CS-6	5.0	5.3	5.6	4.5	4.1	5.5	5.0
HATRICK (BSP-17)	4.6	5.4	5.6	3.6	4.8	5.9	5.0
MRSL-PR16	4.7	5.6	5.6	4.0	4.4	5.6	5.0
APR2616	5.3	4.4	5.8	4.3	4.5	5.4	5.0
RAD-PR 112	4.8	6.6	5.5	3.5	4.0	5.3	5.0
DERBY XTREME	5.5	4.8	5.3	4.1	4.1	5.8	4.9
EVOLVE	5.3	5.5	5.3	4.5	4.2	5.0	4.9
BAR LP 6131	5.1	5.1	5.8	4.2	4.4	5.1	4.9
ASP0116EXT	5.0	5.4	4.9	4.1	3.9	6.3	4.9
ASP0218 (A-6D)	5.1	4.5	5.2	3.8	4.9	6.1	4.9

TABLE 6.
(CONT'D)

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	CT1	IA1	MD1	MN1	MO1	UT1	MEAN
BAR LP 6165	5.3	6.7	5.3	3.2	4.0	5.1	4.9
APR2612	5.1	5.0	5.8	3.8	4.3	5.3	4.9
GREEN SUPREME+ (AMP-R1)	4.9	4.9	5.7	4.1	4.0	5.7	4.9
INTENSE	5.4	4.9	5.8	4.1	3.1	5.8	4.9
NEXUS GT (SNX)	4.8	5.6	5.3	3.4	4.1	5.4	4.8
CAYMAN (GO-143)	4.7	4.8	5.4	3.4	4.6	5.6	4.7
JR-888	5.2	4.6	4.1	4.1	4.3	5.9	4.7
TEE-ME-UP (BSP-25)	4.9	5.7	4.6	2.9	4.3	5.8	4.7
BELIZE 2 (GO-142)	5.1	4.7	5.5	3.3	3.8	5.4	4.7
BRIGHTSTAR SLT	5.2	5.1	4.2	3.8	3.8	5.5	4.6
MRSL-PR15	4.7	4.9	5.0	3.7	3.8	5.3	4.6
GO-141	5.2	4.4	4.5	3.9	3.6	5.8	4.6
SAGUARO	4.5	4.6	4.2	4.5	3.7	5.9	4.5
ALLSTAR III	5.4	4.3	4.9	3.6	3.7	5.4	4.5
FIREBALL (BWH)	4.8	5.0	4.6	3.5	4.3	4.9	4.5
LPB-SD-102	5.3	4.3	4.5	3.7	3.7	5.6	4.5
LPB-SD-101	5.3	4.4	4.0	3.8	3.1	5.8	4.4
MENSA	5.2	3.9	3.9	3.6	4.0	5.8	4.4
LPB-SD-103	4.7	4.2	4.0	4.4	2.9	5.8	4.3
SAVANT	4.9	4.0	3.9	3.5	3.9	5.7	4.3
BAR LP 6162	4.3	5.1	5.0	2.2	4.2	4.7	4.3
JR-747	5.1	3.7	3.1	3.3	3.4	6.1	4.1
LPB-SD-105	4.4	4.4	3.2	3.5	3.5	5.6	4.1
LPB-SD-104	4.9	3.9	3.3	3.3	3.3	6.1	4.1
LINN	3.4	3.2	1.0	1.1	2.8	3.0	2.4
LSD VALUE	0.9	1.0	0.9	0.9	0.9	0.7	0.4
C.V. (%)	9.9	12.7	10.2	12.6	12.2	7.8	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.
- 3/ SCHEDULE C (HOME LAWN) MOWING HEIGHT: 1.5" TO 2.5". NITROGEN RATE (lbs. N/1000 sq. ft./ GROWING MONTH): 0.3-0.5. IRRIGATION: NONE, ONLY DURING SEVERE STRESS OR TO PREVENT DORMANCY. NO FUNGICIDES OR INSECTICIDES USED. WEED CONTROL TO PREVENT SIGNIFICANT STAND LOSS.

TABLE 7.

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

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

NAME	CT1	NJ2	MEAN
STELLAR 4GL (PPG-PR 424)	6.3	6.6	6.4
DLFPS-236/3546	5.8	6.9	6.3
ZOOM 2 (DLFPS-236/3545)	6.6	6.1	6.3
PL2	6.5	6.1	6.3
SUNBURST (02BS2)	6.3	6.3	6.3
PALMER SUPREME (PPG-PR 421)	6.3	6.2	6.3
FURLONG (LTP-FCB)	5.6	6.8	6.2
SHIELD (02BS4)	6.3	6.1	6.2
MYSTIQUE (DLFPS-236/3547)	5.6	6.7	6.2
JR-197	5.9	6.4	6.2
ALLOY (RRT)	6.1	6.1	6.1
SR 4700 (DLFPS-236/3543)	5.8	6.2	6.0
DLFPS-236/3556	5.4	6.5	6.0
HELIOS (DLFPS-236/3538)	5.9	6.0	6.0
PHARAOH	6.3	5.7	6.0
CATALYST (023)	5.7	6.3	6.0
HOMERUN LS (PPG-PR 419)	6.2	5.7	6.0
NP-3	6.1	5.8	6.0
MAN O WAR	5.5	6.3	5.9
021	5.4	6.4	5.9
PPG-PR 372	6.1	5.8	5.9
SLUGGER 3GL (PPG-PR 343)	5.6	6.3	5.9
DLFPS-236/3552	6.0	5.8	5.9
PPG-PR 423	6.1	5.8	5.9
PPG-PR 360	6.1	5.7	5.9
GATOR CINCO (DLFPS-236/3548)	5.6	6.1	5.8
PPG-PR 422	6.4	5.2	5.8
UMPQUA	5.3	6.3	5.8
SUPERSTAR GL (PPG-PR 420)	5.8	5.8	5.8
FIESTA CINCO (DLFPS-236/3554)	5.5	6.1	5.8
NP-2	5.9	5.7	5.8
PPG-PR 371	5.9	5.7	5.8
XCELERATOR	5.6	5.9	5.8
CPN	6.0	5.5	5.7
PPG-PR 370	5.8	5.7	5.7
SPIKE GLS (UF3)	5.8	5.6	5.7
SEABISCUIT	5.6	5.7	5.6
SR 4650	5.7	5.6	5.6
OVERDRIVE 5G	5.8	5.5	5.6
GATOR FORE (DLFPS-236/3544)	6.0	5.2	5.6
APPLE 3GL (PPG-PR 339)	5.4	5.8	5.6
SWIFT (PST-2A2)	5.8	5.3	5.6
02BS1	6.0	5.1	5.6
GRAY WOLF (PST-2GAL)	5.6	5.5	5.5
MIGHTIER (DLFPS-236/3542)	5.6	5.5	5.5

TABLE 7.
(CONT'D)

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

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

NAME	CT1	NJ2	MEAN
PARADOX GLR (PPG-PR 331)	5.9	5.2	5.5
IVY (PST-2GTD)	5.8	5.2	5.5
PR-6-15	5.8	5.2	5.5
BAR LP 6165	5.3	5.7	5.5
FASTBALL 3GL (PPG-PR 329)	5.3	5.6	5.5
PR-5-16	5.5	5.4	5.5
SIGNET	5.8	5.1	5.5
INTENSE	5.4	5.5	5.5
BAR LP 6233	5.5	5.4	5.4
ALLSTAR FORE (DLFPS-236/3541)	5.1	5.8	5.4
APR2616	5.3	5.5	5.4
DLFPS-236/3550	5.4	5.4	5.4
PPG-PR 385	5.7	5.1	5.4
PST-2FOXY	6.1	4.6	5.3
DLFPS-236/3540	5.9	4.8	5.3
DLFPS-236/3553	5.4	5.2	5.3
PST-2MAY	5.7	4.9	5.3
PST-2PDA	5.6	5.0	5.3
PPG-PR 367	6.2	4.4	5.3
STARBRIGHT GLX (PST-2BDT)	6.0	4.6	5.3
PARAGON 2 GLR (FP2)	5.4	5.1	5.2
GRAND SLAM GLD	5.0	5.4	5.2
KARMA	5.6	4.8	5.2
APR2612	5.1	5.2	5.2
SLIDER LS (PPG-PR 241)	5.9	4.4	5.1
BAR LP 6117	5.6	4.6	5.1
JR-123	5.7	4.5	5.1
LPB-SD-102	5.3	4.8	5.1
JR-888	5.2	5.0	5.1
MENSA	5.2	4.9	5.0
APR3060	5.1	4.9	5.0
SILVER SPORT (PST-2CRP)	4.9	5.0	4.9
ASP0118GL (A-4G)	5.2	4.7	4.9
SAVANT	4.9	4.9	4.9
ASP0117 (A-PR15)	5.3	4.5	4.9
BAR LP 6131	5.1	4.7	4.9
BAR LP 6158	5.1	4.7	4.9
PST-2EGAD	4.8	4.8	4.8
ALLSTAR III	5.4	4.2	4.8
MRSI-PR15	4.7	4.9	4.8
DERBY XTREME	5.5	4.0	4.8
BAR LP 6159	5.1	4.4	4.8
LPB-SD-104	4.9	4.6	4.7
GRAY HAWK (PST-2FIND)	4.9	4.6	4.7
RAD-PR 112	4.8	4.6	4.7
TEE-ME-UP (BSP-25)	4.9	4.4	4.7

TABLE 7.
(CONT'D)

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	CT1	NJ2	MEAN
EVOLVE	5.3	4.0	4.7
BAR LP 6164	5.2	4.1	4.7
JR-747	5.1	4.0	4.6
LPB-SD-101	5.3	3.9	4.6
LPB-SD-103	4.7	4.4	4.5
GO-141	5.2	3.8	4.5
CS-6	5.0	3.9	4.4
PEPPER II (RAD-PR 103)	4.7	4.0	4.4
GREEN SUPREME+ (AMP-R1)	4.9	3.8	4.3
HATRICK (BSP-17)	4.6	4.1	4.3
BELIZE 2 (GO-142)	5.1	3.5	4.3
SAGUARO	4.5	4.1	4.3
ASP0116EXT	5.0	3.6	4.3
NEXUS GT (SNX)	4.8	3.7	4.3
MRS�-PR16	4.7	3.9	4.3
DLFPS-238/3014	5.1	3.3	4.2
ASP0218 (A-6D)	5.1	3.2	4.2
BRIGHTSTAR SLT	5.2	3.0	4.1
LPB-SD-105	4.4	3.7	4.1
CAYMAN (GO-143)	4.7	3.2	4.0
FIREBALL (BWH)	4.8	3.0	3.9
BAR LP 6162	4.3	3.1	3.7
LINN	3.4	1.6	2.5
LSD VALUE	0.9	1.0	0.7
C.V. (%)	9.9	12.1	11.0

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 8.

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

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

NAME	KS1	MD1	MO1	VA1	MEAN
FURLONG (LTP-FCB)	6.7	6.4	5.4	6.7	6.3
SILVER SPORT (PST-2CRP)	6.7	6.2	4.8	7.2	6.2
FIESTA CINCO (DLFPS-236/3554)	6.4	6.4	5.5	6.3	6.2
PPG-PR 372	6.5	6.2	5.3	6.6	6.2
GATOR FORE (DLFPS-236/3544)	6.6	6.4	4.8	6.8	6.1
APPLE 3GL (PPG-PR 339)	6.4	6.4	5.3	6.4	6.1
PPG-PR 367	6.7	6.3	4.9	6.6	6.1
SLUGGER 3GL (PPG-PR 343)	6.5	6.1	4.8	7.0	6.1
ALLOY (RRT)	6.7	5.8	4.8	7.0	6.1
PPG-PR 371	6.7	6.1	5.1	6.5	6.1
HELIOS (DLFPS-236/3538)	6.2	6.0	5.4	6.7	6.1
BAR LP 6233	6.1	5.9	4.9	7.3	6.1
PR-5-16	6.5	5.9	4.9	6.9	6.1
DLFPS-236/3546	6.6	6.2	5.3	6.1	6.1
MYSTIQUE (DLFPS-236/3547)	6.6	5.8	5.1	6.7	6.1
PST-2FOXY	6.4	6.2	5.1	6.5	6.0
STELLAR 4GL (PPG-PR 424)	6.4	6.4	4.6	6.7	6.0
APR3060	6.6	5.8	4.9	6.9	6.0
PL2	6.1	6.0	4.8	7.3	6.0
ZOOM 2 (DLFPS-236/3545)	6.5	6.2	4.0	7.4	6.0
SUPERSTAR GL (PPG-PR 420)	6.5	6.0	5.4	6.2	6.0
XCELERATOR	6.6	5.8	5.1	6.5	6.0
PALMER SUPREME (PPG-PR 421)	6.5	6.1	4.9	6.5	6.0
SR 4700 (DLFPS-236/3543)	6.6	6.3	4.6	6.4	6.0
GRAND SLAM GLD	6.6	6.3	4.3	6.8	6.0
DLFPS-236/3556	6.6	6.1	4.4	6.9	6.0
SLIDER LS (PPG-PR 241)	6.3	6.0	4.8	6.8	6.0
SUNBURST (02BS2)	6.7	6.4	4.9	5.9	6.0
FASTBALL 3GL (PPG-PR 329)	6.6	6.4	4.7	6.2	6.0
HOMERUN LS (PPG-PR 419)	6.7	6.1	4.7	6.4	6.0
DLFPS-236/3550	6.7	6.1	4.6	6.4	6.0
PPG-PR 370	6.6	6.0	5.0	6.2	6.0
SHIELD (02BS4)	6.3	6.2	4.9	6.3	5.9
DLFPS-236/3553	6.6	5.9	5.3	6.0	5.9
PPG-PR 385	6.5	5.8	4.8	6.6	5.9
PHARAOH	6.8	6.4	4.6	5.9	5.9
DLFPS-236/3552	6.5	6.2	4.9	6.0	5.9
NP-3	6.6	5.9	5.0	6.2	5.9
021	6.2	6.1	4.6	6.7	5.9
PPG-PR 360	6.6	5.9	4.6	6.4	5.9
BAR LP 6164	6.4	6.0	4.6	6.6	5.9
PPG-PR 423	6.4	6.2	5.0	6.0	5.9
JR-197	6.7	6.0	4.5	6.3	5.9
PPG-PR 422	6.3	5.9	4.9	6.3	5.9
APR2616	6.1	5.8	4.5	7.0	5.9

TABLE 8.
(CONT'D)

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	KS1	MD1	MO1	VA1	MEAN
BAR LP 6117	6.4	5.9	4.9	6.1	5.8
UMPQUA	6.4	6.3	3.8	6.8	5.8
IVY (PST-2GTD)	6.6	6.0	4.5	6.1	5.8
PARAGON 2 GLR (FP2)	6.7	5.6	4.9	6.0	5.8
ASP0118GL (A-4G)	6.4	5.9	4.8	5.9	5.8
SEABISCUIT	6.4	6.0	4.8	5.9	5.8
CATALYST (023)	6.7	5.8	4.5	6.0	5.7
PR-6-15	6.5	6.1	4.0	6.3	5.7
MRSL-PR16	6.8	5.6	4.4	6.2	5.7
BAR LP 6131	6.6	5.8	4.4	6.1	5.7
CPN	6.6	5.8	4.4	6.1	5.7
NP-2	6.5	5.8	4.5	6.0	5.7
BAR LP 6159	6.6	5.8	4.3	6.2	5.7
GRAY WOLF (PST-2GAL)	6.3	5.6	4.5	6.4	5.7
APR2612	6.6	5.8	4.3	6.2	5.7
BAR LP 6158	6.7	5.1	4.6	6.4	5.7
DLFPS-238/3014	6.5	5.5	4.8	6.0	5.7
ALLSTAR FORE (DLFPS-236/3541)	6.5	6.3	3.9	6.1	5.7
02BS1	6.6	6.0	4.3	5.9	5.7
ASP0218 (A-6D)	6.4	5.2	4.9	6.2	5.7
GATOR CINCO (DLFPS-236/3548)	6.6	5.8	4.8	5.6	5.7
JR-123	6.7	5.7	4.9	5.5	5.7
EVOLVE	6.7	5.3	4.2	6.4	5.7
HATRICK (BSP-17)	6.4	5.6	4.8	5.8	5.6
CS-6	6.4	5.6	4.1	6.4	5.6
PST-2EGAD	6.6	6.0	4.6	5.4	5.6
PEPPER II (RAD-PR 103)	6.6	5.3	4.9	5.7	5.6
GRAY HAWK (PST-2FIND)	6.3	6.1	4.3	5.7	5.6
PARADOX GLR (PPG-PR 331)	6.3	6.0	4.1	5.9	5.6
ASP0117 (A-PR15)	6.6	5.6	4.1	6.0	5.6
SIGNET	6.4	5.4	4.0	6.4	5.6
PST-2MAY	.	5.7	4.9	6.0	5.6
GREEN SUPREME+ (AMP-R1)	6.7	5.7	4.0	5.9	5.5
NEXUS GT (SNX)	6.7	5.3	4.1	6.0	5.5
MIGHTIER (DLFPS-236/3542)	6.6	5.6	4.1	5.9	5.5
STARBRIGHT GLX (PST-2BDT)	6.6	5.3	4.4	5.8	5.5
OVERDRIVE 5G	6.4	5.6	4.3	5.8	5.5
SPIKE GLS (UF3)	6.3	5.3	4.2	6.1	5.5
CAYMAN (GO-143)	6.4	5.4	4.6	5.4	5.5
SWIFT (PST-2A2)	6.6	5.6	3.9	5.8	5.5
BAR LP 6165	5.9	5.3	4.0	6.6	5.5
PST-2PDA	6.2	5.7	3.9	5.9	5.4
RAD-PR 112	6.6	5.5	4.0	5.5	5.4
BAR LP 6162	6.6	5.0	4.2	5.9	5.4
MAN O WAR	6.4	6.2	3.8	5.1	5.4
SR 4650	6.7	5.6	3.4	5.9	5.4

TABLE 8.
(CONT'D)

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

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				MEAN
	KS1	MD1	MO1	VA1	
BELIZE 2 (GO-142)	6.7	5.5	3.8	5.4	5.4
DLFPS-236/3540	6.2	5.4	4.1	5.9	5.4
INTENSE	6.7	5.8	3.1	5.7	5.3
TEE-ME-UP (BSP-25)	6.3	4.6	4.3	6.2	5.3
ASP0116EXT	6.4	4.9	3.9	6.0	5.3
FIREBALL (BWH)	6.8	4.6	4.3	5.3	5.3
MRSI-PR15	6.1	5.0	3.8	5.8	5.2
DERBY XTREME	6.5	5.3	4.1	4.9	5.2
GO-141	6.6	4.5	3.6	6.0	5.2
JR-888	6.4	4.1	4.3	5.8	5.1
KARMA	.	5.6	3.5	6.1	5.1
ALLSTAR III	6.6	4.9	3.7	5.0	5.0
LPB-SD-102	6.3	4.5	3.7	5.6	5.0
SAVANT	6.5	3.9	3.9	5.3	4.9
SAGUARO	6.4	4.2	3.7	5.1	4.9
BRIGHTSTAR SLT	6.4	4.2	3.8	5.0	4.8
MENSA	6.4	3.9	4.0	4.9	4.8
JR-747	6.5	3.1	3.4	6.0	4.8
LPB-SD-103	6.6	4.0	2.9	5.3	4.7
LPB-SD-105	6.2	3.2	3.5	5.6	4.6
LPB-SD-101	6.2	4.0	3.1	5.2	4.6
LPB-SD-104	5.9	3.3	3.3	5.3	4.5
LINN	3.8	1.0	2.8	6.0	3.4
LSD VALUE	0.5	0.9	0.9	1.1	0.4
C.V. (%)	4.5	10.2	12.2	11.4	9.6

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 9.

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	IA1	MN1	NE1	MEAN
APPLE 3GL (PPG-PR 339)	5.7	5.1	6.9	5.9
PST-2EGAD	6.1	4.4	6.9	5.8
HOMERUN LS (PPG-PR 419)	5.6	5.1	6.7	5.8
PALMER SUPREME (PPG-PR 421)	5.6	4.7	7.0	5.8
STELLAR 4GL (PPG-PR 424)	5.2	5.1	7.0	5.8
DLFPS-236/3546	5.4	5.2	6.6	5.7
PL2	5.5	5.2	6.5	5.7
SILVER SPORT (PST-2CRP)	5.8	4.9	6.5	5.7
UMPQUA	6.0	4.9	6.2	5.7
02BS1	5.5	4.8	6.8	5.7
OVERDRIVE 5G	5.4	5.1	6.6	5.7
GATOR FORE (DLFPS-236/3544)	4.9	5.6	6.6	5.7
SEABISCUIT	6.5	4.2	6.4	5.7
APR3060	5.9	4.4	6.7	5.7
PPG-PR 372	5.0	4.8	7.1	5.7
SPIKE GLS (UF3)	5.7	4.7	6.5	5.7
SR 4700 (DLFPS-236/3543)	5.2	4.9	6.9	5.7
ZOOM 2 (DLFPS-236/3545)	5.6	4.8	6.6	5.6
FASTBALL 3GL (PPG-PR 329)	4.9	5.3	6.8	5.6
GRAY HAWK (PST-2FIND)	5.8	4.6	6.5	5.6
JR-197	5.1	5.0	6.8	5.6
PPG-PR 423	5.5	5.0	6.4	5.6
XCELERATOR	5.7	4.9	6.2	5.6
PR-6-15	4.8	5.1	7.0	5.6
CATALYST (023)	5.3	5.1	6.4	5.6
NP-2	5.1	5.3	6.4	5.6
BAR LP 6117	5.6	4.2	7.0	5.6
PHARAOH	5.6	4.5	6.7	5.6
SLIDER LS (PPG-PR 241)	5.1	5.1	6.6	5.6
NP-3	5.4	4.9	6.5	5.6
IVY (PST-2GTD)	5.8	4.6	6.3	5.6
PPG-PR 367	5.0	5.3	6.5	5.6
CPN	5.2	4.7	6.8	5.6
DLFPS-238/3014	6.6	3.9	6.1	5.5
SUPERSTAR GL (PPG-PR 420)	4.9	5.2	6.5	5.5
FURLONG (LTP-FCB)	4.7	5.1	6.8	5.5
MAN O WAR	5.7	4.7	6.1	5.5
PARAGON 2 GLR (FP2)	5.1	4.8	6.7	5.5
ASP0118GL (A-4G)	5.5	4.6	6.5	5.5
DLFPS-236/3553	5.1	4.7	6.7	5.5
GATOR CINCO (DLFPS-236/3548)	5.2	4.7	6.5	5.5
BAR LP 6233	6.4	3.9	6.2	5.5
BAR LP 6164	5.5	4.7	6.3	5.5
MYSTIQUE (DLFPS-236/3547)	5.0	4.7	6.8	5.5
PPG-PR 371	4.6	5.0	6.9	5.5

TABLE 9.
(CONT'D)

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

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

NAME	IA1	MN1	NE1	MEAN
PPG-PR 360	5.3	4.6	6.6	5.5
GRAY WOLF (PST-2GAL)	6.0	3.9	6.5	5.5
SR 4650	5.5	4.7	6.2	5.5
PST-2PDA	5.7	4.2	6.5	5.5
PR-5-16	5.0	4.9	6.4	5.5
DLFPS-236/3552	4.9	4.5	7.0	5.5
DLFPS-236/3540	5.0	4.6	6.8	5.5
BAR LP 6159	5.6	4.1	6.7	5.5
021	5.0	5.0	6.3	5.4
HELIOS (DLFPS-236/3538)	5.6	4.3	6.4	5.4
PST-2MAY	5.3	4.5	6.5	5.4
PPG-PR 385	5.4	4.9	6.0	5.4
DLFPS-236/3556	4.6	5.3	6.3	5.4
SLUGGER 3GL (PPG-PR 343)	4.8	5.0	6.4	5.4
EVOLVE	5.5	4.5	6.3	5.4
PARADOX GLR (PPG-PR 331)	4.7	5.1	6.4	5.4
PPG-PR 422	4.8	4.8	6.6	5.4
ASP0117 (A-PR15)	4.9	4.6	6.7	5.4
SUNBURST (02BS2)	4.8	4.9	6.4	5.4
CS-6	5.3	4.5	6.3	5.4
FIESTA CINCO (DLFPS-236/3554)	5.2	4.6	6.3	5.4
PPG-PR 370	4.5	4.7	7.0	5.4
SHIELD (02BS4)	5.0	4.6	6.4	5.3
BAR LP 6158	5.8	4.2	6.0	5.3
STARBRIGHT GLX (PST-2BDT)	5.1	4.1	6.7	5.3
PST-2FOXY	5.4	4.1	6.4	5.3
PEPPER II (RAD-PR 103)	6.0	3.7	6.2	5.3
ASP0116EXT	5.4	4.1	6.4	5.3
SIGNET	4.6	4.6	6.8	5.3
ALLSTAR FORE (DLFPS-236/3541)	4.8	4.5	6.6	5.3
MRSL-PR16	5.6	4.0	6.2	5.3
SWIFT (PST-2A2)	5.1	4.3	6.4	5.3
RAD-PR 112	6.6	3.5	5.7	5.3
GRAND SLAM GLD	5.3	4.3	6.1	5.2
DERBY XTREME	4.8	4.1	6.7	5.2
JR-123	4.8	4.5	6.3	5.2
DLFPS-236/3550	4.3	4.7	6.5	5.2
KARMA	4.6	4.5	6.4	5.2
BAR LP 6131	5.1	4.2	6.2	5.2
ALLOY (RRT)	4.5	4.2	6.7	5.1
SAGUARO	4.6	4.5	6.3	5.1
APR2616	4.4	4.3	6.7	5.1
HATRICK (BSP-17)	5.4	3.6	6.3	5.1
MIGHTIER (DLFPS-236/3542)	5.2	3.6	6.5	5.1
CAYMAN (GO-143)	4.8	3.4	7.0	5.1
BRIGHTSTAR SLT	5.1	3.8	6.3	5.1

TABLE 9.
(CONT'D)

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

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

NAME	IA1	MN1	NE1	MEAN
GREEN SUPREME+ (AMP-R1)	4.9	4.1	6.2	5.1
APR2612	5.0	3.8	6.4	5.1
BAR LP 6165	6.7	3.2	5.2	5.0
INTENSE	4.9	4.1	6.0	5.0
NEXUS GT (SNX)	5.6	3.4	6.0	5.0
MRS�-PR15	4.9	3.7	6.3	5.0
JR-888	4.6	4.1	6.1	4.9
LPB-SD-103	4.2	4.4	6.2	4.9
TEE-ME-UP (BSP-25)	5.7	2.9	6.1	4.9
FIREBALL (BWH)	5.0	3.5	6.3	4.9
LPB-SD-102	4.3	3.7	6.6	4.8
GO-141	4.4	3.9	6.2	4.8
ASP0218 (A-6D)	4.5	3.8	6.1	4.8
LPB-SD-101	4.4	3.8	6.2	4.8
BELIZE 2 (GO-142)	4.7	3.3	6.4	4.8
LPB-SD-105	4.4	3.5	6.2	4.7
ALLSTAR III	4.3	3.6	6.2	4.7
MENSA	3.9	3.6	6.3	4.6
SAVANT	4.0	3.5	6.1	4.5
BAR LP 6162	5.1	2.2	6.1	4.5
JR-747	3.7	3.3	6.4	4.5
LPB-SD-104	3.9	3.3	6.3	4.5
LINN	3.2	1.1	4.9	3.1
LSD VALUE	1.0	0.9	0.5	0.5
C.V. (%)	12.7	12.6	4.6	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 10.

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/
2021 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS						MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	
NP-3	5.7	7.0	6.7	6.7	7.7	7.0	6.8
PPG-PR 370	5.7	6.7	6.3	7.7	7.7	6.0	6.7
DLFPS-236/3552	5.7	6.7	6.0	6.7	8.0	6.7	6.6
HOMERUN LS (PPG-PR 419)	5.0	7.0	6.3	7.0	7.3	6.3	6.5
MIGHTIER (DLFPS-236/3542)	5.3	6.3	6.3	6.3	7.7	6.7	6.4
ALLOY (RRT)	5.3	6.7	6.0	7.7	7.0	6.0	6.4
STELLAR 4GL (PPG-PR 424)	6.0	6.7	5.3	6.3	7.3	6.7	6.4
DLFPS-236/3546	5.3	6.7	6.0	6.3	7.7	6.3	6.4
PPG-PR 372	5.3	6.0	6.3	6.3	7.7	6.7	6.4
ASP0116EXT	6.0	6.7	5.7	6.7	7.0	6.0	6.3
PR-6-15	4.7	6.3	6.7	7.0	7.0	6.3	6.3
CATALYST (023)	5.3	6.0	6.0	6.3	7.7	6.3	6.3
NP-2	5.7	6.0	5.7	6.0	7.7	6.7	6.3
SUPERSTAR GL (PPG-PR 420)	5.7	6.3	5.7	6.7	7.0	6.3	6.3
PL2	6.0	6.7	6.0	5.7	7.3	6.0	6.3
PPG-PR 422	4.7	6.7	6.0	6.7	7.3	6.3	6.3
PR-5-16	6.3	5.3	5.3	6.3	7.7	6.7	6.3
SIGNET	5.0	6.7	6.3	7.0	6.7	6.0	6.3
SLUGGER 3GL (PPG-PR 343)	5.3	7.0	6.0	6.3	7.3	5.7	6.3
FASTBALL 3GL (PPG-PR 329)	6.0	6.3	5.7	6.3	7.0	6.0	6.2
SWIFT (PST-2A2)	5.0	6.3	6.0	6.3	7.3	6.3	6.2
ZOOM 2 (DLFPS-236/3545)	5.3	6.3	5.7	7.0	7.3	5.7	6.2
02BS1	5.3	6.0	6.0	6.7	6.7	6.3	6.2
APPLE 3GL (PPG-PR 339)	5.7	5.7	6.0	6.0	7.3	6.3	6.2
DLFPS-236/3553	5.3	6.0	6.3	6.3	7.0	6.0	6.2
GATOR CINCO (DLFPS-236/3548)	5.0	6.7	6.3	6.0	7.0	6.0	6.2
GATOR FORE (DLFPS-236/3544)	5.3	6.0	5.7	7.0	7.0	6.0	6.2
KARMA	5.3	6.7	5.7	6.0	7.3	6.0	6.2
MYSTIQUE (DLFPS-236/3547)	5.0	6.3	6.0	6.0	7.7	6.0	6.2
PALMER SUPREME (PPG-PR 421)	5.3	6.7	5.7	6.7	7.0	5.7	6.2
SILVER SPORT (PST-2CRP)	5.0	6.3	6.0	6.0	7.3	6.3	6.2
SLIDER LS (PPG-PR 241)	4.7	6.0	5.7	6.3	8.0	6.3	6.2
SR 4650	5.3	6.7	6.0	6.7	6.7	5.7	6.2
ASP0218 (A-6D)	5.3	6.3	5.7	6.7	7.3	5.3	6.1
DLFPS-236/3540	5.0	6.3	5.3	6.0	7.7	6.3	6.1
FIESTA CINCO (DLFPS-236/3554)	5.7	6.3	5.3	6.0	7.3	6.0	6.1
GRAY WOLF (PST-2GAL)	5.7	6.0	6.0	6.7	6.7	5.7	6.1
PARADOX GLR (PPG-PR 331)	5.3	6.0	6.0	6.7	6.7	6.0	6.1
PPG-PR 385	5.3	6.0	5.7	6.3	7.3	6.0	6.1
XCELERATOR	5.3	6.0	6.0	6.7	6.7	6.0	6.1
FURLONG (LTP-FCB)	4.7	6.3	6.0	6.7	6.7	6.0	6.1
LPB-SD-104	3.7	6.0	6.0	7.0	7.7	6.0	6.1
PPG-PR 360	5.3	6.0	6.0	5.7	7.3	6.0	6.1
021	5.7	5.7	5.3	6.0	7.3	6.3	6.1
JR-747	3.3	6.3	6.0	6.7	7.7	6.3	6.1

TABLE 10.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/
2021 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS						MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	
ASP0118GL (A-4G)	4.7	6.0	6.3	6.0	7.3	5.7	6.0
PARAGON 2 GLR (FP2)	5.3	5.7	5.7	6.0	7.3	6.0	6.0
PST-2FOXY	4.0	6.3	6.0	6.7	7.3	5.7	6.0
SR 4700 (DLFPS-236/3543)	5.0	5.3	6.7	6.0	6.7	6.3	6.0
SUNBURST (02BS2)	5.0	6.0	5.7	6.0	7.3	6.0	6.0
DLFPS-236/3556	5.7	5.3	5.3	6.3	7.0	6.0	5.9
JR-197	4.7	6.0	5.7	6.3	7.0	6.0	5.9
JR-888	4.0	6.7	6.0	6.0	7.0	6.0	5.9
UMPQUA	5.0	5.3	6.0	6.3	7.0	6.0	5.9
ASP0117 (A-PR15)	6.0	6.0	4.7	6.0	7.0	5.7	5.9
HATRICK (BSP-17)	4.7	6.3	6.0	6.3	7.0	5.0	5.9
PPG-PR 371	5.0	6.0	5.7	6.3	6.3	6.0	5.9
PST-2MAY	5.0	6.0	5.7	6.0	6.7	6.0	5.9
SAGUARO	4.7	6.0	6.0	6.3	7.0	5.3	5.9
SHIELD (02BS4)	5.0	6.0	5.7	5.7	7.3	5.7	5.9
ALLSTAR FORE (DLFPS-236/3541)	5.0	6.0	5.7	5.3	6.7	6.3	5.8
CPN	4.7	6.0	5.3	6.0	7.0	6.0	5.8
DERBY XTREME	4.7	5.7	5.7	6.0	7.3	5.7	5.8
INTENSE	5.3	5.3	5.7	5.7	7.0	6.0	5.8
LPB-SD-103	4.0	6.0	6.0	6.3	7.3	5.3	5.8
MENSA	3.3	5.7	5.3	7.0	7.7	6.0	5.8
PPG-PR 423	5.0	6.0	5.7	5.7	6.7	6.0	5.8
SPIKE GLS (UF3)	5.0	5.7	5.7	6.3	6.7	5.7	5.8
TEE-ME-UP (BSP-25)	4.3	6.0	5.7	6.7	7.0	5.3	5.8
GO-141	5.0	6.0	5.3	6.0	7.0	5.3	5.8
OVERDRIVE 5G	4.7	5.7	5.3	5.7	7.3	6.0	5.8
DLFPS-236/3550	4.7	5.7	5.7	6.0	6.7	6.0	5.8
LPB-SD-101	4.0	6.0	5.7	6.3	6.7	6.0	5.8
BAR LP 6159	5.3	6.0	5.0	6.0	6.3	5.7	5.7
GRAND SLAM GLD	5.0	6.0	5.3	5.7	6.7	5.7	5.7
SAVANT	3.7	6.3	5.3	5.7	7.3	6.0	5.7
BAR LP 6164	4.3	5.0	5.7	6.3	6.7	6.0	5.7
GREEN SUPREME+ (AMP-R1)	4.0	6.0	5.7	5.7	7.0	5.7	5.7
PEPPER II (RAD-PR 103)	4.7	5.7	5.3	6.0	7.0	5.3	5.7
BAR LP 6158	5.7	5.3	5.0	5.3	6.7	5.7	5.6
CAYMAN (GO-143)	4.7	5.3	5.7	5.7	6.7	5.7	5.6
LPB-SD-105	3.0	5.3	5.7	6.7	7.3	5.7	5.6
APR3060	4.7	5.7	5.3	5.7	7.0	5.0	5.6
BAR LP 6117	5.0	5.0	5.3	6.0	6.3	5.7	5.6
LPB-SD-102	3.3	5.7	5.0	6.7	7.0	5.7	5.6
MRSL-PR16	4.3	5.3	5.0	5.7	7.3	5.7	5.6
IVY (PST-2GTD)	5.7	5.3	4.3	5.7	6.7	5.7	5.6
JR-123	3.7	6.0	5.3	6.0	7.0	5.3	5.6
PHARAOH	5.3	5.3	5.0	5.3	6.3	6.0	5.6
PST-2PDA	5.0	5.0	5.0	6.0	6.3	6.0	5.6
BAR LP 6233	4.3	5.3	5.3	6.3	6.3	5.3	5.5

TABLE 10. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT LOGAN, UT (IN THE UPPER WEST/MOUNTAIN REGION) 1/ 2021 DATA

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

NAME	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
BRIGHTSTAR SLT	5.3	5.0	4.7	5.3	6.7	6.0	5.5
CS-6	4.3	6.3	5.3	5.3	6.3	5.3	5.5
MAN O WAR	5.3	5.0	5.0	5.3	6.3	6.0	5.5
SEABISCUIT	5.0	5.3	5.0	5.0	7.0	5.7	5.5
STARBRIGHT GLX (PST-2BDT)	5.3	5.7	5.0	5.3	6.3	5.3	5.5
APR2616	4.3	5.7	4.7	5.7	6.7	5.7	5.4
HELIOS (DLFPS-236/3538)	4.3	5.7	5.0	5.7	6.7	5.3	5.4
NEXUS GT (SNX)	4.3	5.3	5.3	5.3	6.7	5.7	5.4
BELIZE 2 (GO-142)	4.3	5.7	5.0	5.0	6.7	5.7	5.4
ALLSTAR III	4.0	5.7	5.0	5.3	6.7	5.7	5.4
APR2612	4.3	5.0	5.0	6.0	6.3	5.3	5.3
GRAY HAWK (PST-2FIND)	4.7	5.3	4.7	5.0	7.0	5.3	5.3
MRSI-PR15	4.0	5.7	5.0	5.7	6.3	5.0	5.3
PPG-PR 367	4.0	5.3	4.7	5.7	7.0	5.0	5.3
RAD-PR 112	4.3	5.3	5.0	5.3	6.3	5.3	5.3
BAR LP 6131	4.3	4.7	5.0	4.7	6.3	5.7	5.1
BAR LP 6165	4.0	5.0	5.0	5.0	6.3	5.3	5.1
EVOLVE	4.0	4.3	4.7	6.0	6.0	5.0	5.0
FIREBALL (BWH)	3.3	5.0	5.0	5.3	6.3	4.7	4.9
PST-2EGAD	4.0	4.7	4.7	4.7	6.7	5.0	4.9
DLFPS-238/3014	4.3	5.0	4.0	4.3	6.0	5.0	4.8
BAR LP 6162	4.0	4.3	4.3	4.3	6.0	5.3	4.7
LINN	2.0	2.3	2.3	2.3	5.0	4.0	3.0
LSD VALUE	1.4	1.2	1.2	1.3	1.3	1.0	0.7
C.V. (%)	17.7	12.4	13.5	12.9	11.3	10.8	7.8

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 11.

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

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
FURLONG (LTP-FCB)	6.0	6.3	7.0	7.0	6.3	7.0	8.0	8.0	8.0	8.0	7.7	7.0	7.2
PST-2FOXY	6.7	7.0	7.0	7.0	6.0	6.7	7.3	8.0	8.0	8.0	7.7	7.0	7.2
APPLE 3GL (PPG-PR 339)	6.0	7.0	7.0	7.0	6.3	7.0	7.7	8.0	7.7	7.7	7.7	7.0	7.2
PPG-PR 372	6.0	6.7	7.0	7.0	6.3	7.0	7.7	8.0	8.0	8.0	7.7	6.7	7.2
MYSTIQUE (DLFPS-236/3547)	6.3	6.7	7.0	7.0	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.0	7.1
DERBY XTREME	6.0	6.3	7.0	7.0	6.0	6.7	7.3	8.0	8.0	8.0	7.7	7.3	7.1
STELLAR 4GL (PPG-PR 424)	6.0	6.7	7.0	7.0	6.0	6.7	8.0	8.0	8.0	8.0	7.0	7.0	7.1
JR-197	5.7	7.0	7.0	6.7	6.3	6.7	8.0	8.0	7.7	7.7	7.3	7.3	7.1
ALLOY (RRT)	6.0	6.7	7.0	7.0	6.3	6.7	7.3	7.7	7.7	7.7	7.7	7.3	7.1
DLFPS-236/3546	6.0	6.3	7.0	7.0	6.3	6.7	7.7	8.0	8.0	8.0	7.3	6.7	7.1
PHARAOH	6.7	6.7	7.0	6.7	6.0	6.3	7.7	8.0	8.0	8.0	7.3	6.7	7.1
PPG-PR 367	6.3	6.7	7.0	7.0	6.0	7.0	7.7	8.0	8.0	8.0	7.0	6.3	7.1
DLFPS-236/3556	6.0	6.3	7.0	7.0	6.0	6.7	7.7	8.0	8.0	8.0	7.0	7.0	7.1
PPG-PR 422	6.0	6.7	7.0	7.0	6.0	6.7	8.0	8.0	7.7	7.7	7.3	6.7	7.1
ALLSTAR FORE (DLFPS-236/3541)	6.3	6.3	7.0	7.0	7.0	6.7	7.3	7.7	7.7	7.7	7.0	6.7	7.0
DLFPS-236/3552	5.7	6.7	7.0	7.0	6.3	7.0	7.7	8.0	7.3	7.3	7.0	7.0	7.0
SUPERSTAR GL (PPG-PR 420)	5.7	6.3	6.7	7.0	6.0	7.0	7.7	8.0	7.7	7.7	7.3	7.0	7.0
PARAGON 2 GIR (FP2)	6.0	6.7	7.0	7.0	6.0	7.0	7.3	7.7	7.7	7.7	7.0	6.7	7.0
NP-2	5.7	6.3	7.0	6.7	6.3	7.0	7.7	7.7	7.7	7.7	7.0	6.7	6.9
OVERDRIVE 5G	5.7	6.7	7.0	6.7	6.0	6.3	7.3	8.0	8.0	8.0	7.0	6.7	6.9
02BS1	6.0	6.3	7.0	6.7	6.0	6.7	8.0	8.0	7.7	7.7	6.7	6.3	6.9
HOMERUN LS (PPG-PR 419)	5.7	6.3	7.0	7.0	6.3	7.0	7.3	7.3	7.3	7.3	7.3	7.0	6.9
KARMA	5.3	6.3	7.0	7.0	6.0	7.0	7.7	8.0	7.7	7.7	6.7	6.7	6.9
PST-2MAY	5.7	6.7	7.0	7.0	6.0	6.3	8.0	8.0	7.7	7.7	6.7	6.3	6.9
SLUGGER 3GL (PPG-PR 343)	5.7	6.3	7.0	7.0	6.3	7.0	7.7	7.7	7.3	7.3	6.7	7.0	6.9
GATOR FORE (DLFPS-236/3544)	5.7	6.7	7.0	7.0	6.3	7.0	7.0	7.7	7.3	7.3	7.0	6.7	6.9
PR-6-15	5.7	6.7	7.0	7.0	6.3	6.3	7.0	7.7	7.3	7.7	7.3	6.7	6.9
SR 4700 (DLFPS-236/3543)	5.7	6.3	7.0	7.0	6.0	6.3	7.3	7.7	7.7	7.7	7.3	6.7	6.9
SWIFT (PST-2A2)	6.0	6.7	7.0	7.0	6.0	7.0	7.3	7.7	7.3	7.3	7.0	6.3	6.9
GATOR CINCO (DLFPS-236/3548)	5.0	6.0	7.0	7.0	6.7	7.0	7.7	7.7	7.3	7.3	7.0	6.7	6.9
NP-3	5.7	6.7	7.0	6.7	6.0	6.7	7.0	7.7	7.7	7.7	7.0	6.7	6.9
SUNBURST (02BS2)	6.0	6.7	7.0	6.7	6.0	6.7	7.3	7.7	7.7	7.7	6.7	6.3	6.9
UMPQUA	5.0	6.0	7.0	7.0	6.0	7.0	7.3	8.0	7.7	7.7	7.0	6.7	6.9
DLFPS-236/3553	5.7	6.7	7.0	7.0	6.0	6.3	7.3	7.7	7.7	7.7	7.0	6.0	6.8
PARADOX GLR (PPG-PR 331)	5.3	6.0	7.0	6.7	6.0	6.7	7.7	7.7	7.7	7.7	7.3	6.3	6.8
PPG-PR 360	5.0	6.7	7.0	7.0	6.7	7.0	7.0	7.7	7.7	7.7	6.7	6.0	6.8
PPG-PR 371	5.3	6.7	6.7	7.0	6.7	6.7	7.7	7.7	7.7	7.3	6.3	6.3	6.8
CATALYST (023)	5.0	6.3	6.7	7.0	6.3	7.0	7.3	7.7	7.7	7.7	6.7	6.3	6.8
SEABISCUIT	5.3	6.3	7.0	6.3	6.0	6.3	7.7	7.7	7.7	7.7	7.0	6.7	6.8
MAN O WAR	5.3	6.3	7.0	7.0	6.0	6.7	7.0	7.7	7.7	7.7	7.0	6.3	6.8
SPIKE GLS (UF3)	5.7	6.3	6.7	6.7	6.0	6.7	7.3	7.7	7.3	7.7	7.0	6.7	6.8
ASP0118GL (A-4G)	5.3	6.3	6.7	7.0	6.7	6.7	7.0	7.7	7.7	7.3	6.3	6.3	6.8
INTENSE	5.0	6.3	7.0	6.7	6.0	7.0	7.3	7.3	7.3	7.3	7.0	6.7	6.8
JR-123	5.0	6.0	7.0	7.0	6.3	6.7	7.7	7.7	7.3	7.3	6.7	6.3	6.8
MIGHTIER (DLFPS-236/3542)	5.3	6.3	7.0	7.0	6.3	6.7	7.3	7.7	7.7	7.3	6.3	6.0	6.8
PALMER SUPREME (PPG-PR 421)	5.7	6.7	7.0	6.7	6.3	6.7	7.3	7.3	7.0	7.0	7.0	6.3	6.8

TABLE 11.
(CONT'D)

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

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
RAD-PR 112	5.3	6.7	7.0	7.0	6.0	6.7	7.0	7.7	7.7	7.3	6.3	6.3	6.8
SILVER SPORT (PST-2CRP)	6.0	7.0	7.0	6.3	5.7	6.3	7.0	7.3	7.3	7.3	7.0	6.7	6.8
LPB-SD-102	5.3	6.3	6.7	7.0	6.3	6.7	7.7	7.7	7.0	7.0	6.3	6.7	6.7
FASTBALL 3GL (PPG-PR 329)	5.7	6.0	7.0	7.0	6.0	6.3	7.3	7.3	7.3	7.3	7.0	6.3	6.7
CS-6	5.3	7.0	7.0	6.3	6.0	6.3	7.0	7.3	7.3	7.3	6.7	6.7	6.7
PEPPER II (RAD-PR 103)	5.0	6.7	7.0	7.0	6.0	6.0	7.0	7.7	7.7	7.3	6.7	6.3	6.7
021	5.3	6.7	7.0	7.0	6.3	7.0	7.3	7.3	6.7	6.7	6.3	6.7	6.7
CPN	5.7	6.3	7.0	7.0	6.0	6.3	7.7	7.7	7.3	7.3	6.3	5.7	6.7
XCELERATOR	5.0	6.3	7.0	6.7	6.0	6.7	7.3	7.7	7.7	7.3	6.7	6.0	6.7
ZOOM 2 (DLFPS-236/3545)	5.3	6.3	6.3	7.0	6.0	6.3	7.7	7.7	7.7	7.3	6.7	6.0	6.7
ASP0218 (A-6D)	5.3	6.3	7.0	6.7	6.0	6.7	7.3	7.7	7.3	7.0	6.3	6.3	6.7
DLFPS-236/3550	5.0	6.0	7.0	6.7	6.3	7.0	7.3	7.3	7.0	7.0	6.7	6.7	6.7
GRAND SLAM GLD	5.3	6.0	6.7	7.0	6.0	6.3	7.0	7.3	7.3	7.3	7.0	6.7	6.7
PPG-PR 385	5.3	6.3	6.7	6.7	6.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.6
PPG-PR 423	5.0	6.3	7.0	7.0	6.0	6.3	7.0	7.7	7.7	7.3	6.3	6.0	6.6
SLIDER LS (PPG-PR 241)	5.3	6.0	7.0	7.0	6.3	6.7	7.7	7.7	7.0	6.7	6.3	6.0	6.6
ASP0117 (A-PR15)	5.3	6.3	7.0	6.7	6.3	6.7	7.7	7.3	6.7	6.7	6.3	6.3	6.6
PST-2EGAD	5.3	6.3	7.0	6.0	6.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.6
FIREBALL (BWH)	5.0	6.3	7.0	7.0	6.0	6.3	7.3	7.7	7.3	7.0	6.0	6.0	6.6
NEXUS GT (SNX)	5.0	6.0	7.0	6.3	6.0	6.7	7.0	7.3	7.3	7.3	6.3	6.3	6.6
TEE-ME-UP (BSP-25)	5.3	6.3	7.0	6.7	6.0	6.3	7.3	7.3	6.7	6.7	6.3	6.7	6.6
SR 4650	5.0	6.3	6.7	6.3	6.0	6.7	7.7	7.7	7.3	7.0	6.0	6.0	6.6
HATRICK (BSP-17)	5.3	6.7	7.0	6.0	6.0	6.7	7.3	7.3	7.0	7.0	6.3	5.7	6.5
APR2612	5.3	6.0	6.3	6.7	6.0	6.3	7.3	7.7	7.3	7.0	6.0	6.3	6.5
GRAY HAWK (PST-2FIND)	5.3	6.0	7.0	6.7	6.0	6.3	7.0	7.3	7.3	7.0	6.3	6.0	6.5
IVY (PST-2GTD)	6.0	6.7	7.0	6.7	6.0	6.0	7.0	7.0	7.0	7.0	6.3	5.7	6.5
STARBRIGHT GLX (PST-2BDT)	5.0	6.3	7.0	7.0	6.0	6.3	7.3	7.7	7.3	6.7	5.7	6.0	6.5
GRAY WOLF (PST-2GAL)	5.0	6.0	6.7	7.0	6.3	6.3	7.3	7.3	7.3	7.0	6.0	5.7	6.5
LPB-SD-101	5.0	6.0	6.7	7.0	6.0	6.7	7.3	7.3	7.0	7.0	6.0	6.0	6.5
SHIELD (02BS4)	5.3	6.7	7.0	6.3	6.0	6.0	7.3	7.3	7.0	7.0	6.3	5.7	6.5
PL2	5.3	6.0	6.7	6.7	6.0	6.0	7.3	7.3	7.0	7.0	6.3	6.0	6.5
PPG-PR 370	5.0	6.7	7.0	7.0	6.0	6.3	7.3	7.7	7.0	6.7	5.7	5.3	6.5
PR-5-16	5.0	6.0	7.0	6.7	6.0	6.7	7.3	7.3	6.7	6.7	6.0	6.3	6.5
ASP0116EXT	5.3	6.3	7.0	6.3	5.7	6.7	7.3	7.3	7.0	6.7	5.7	6.3	6.5
DLFPS-236/3540	5.0	6.0	6.7	7.0	6.3	6.3	7.0	7.3	7.0	6.7	6.0	6.3	6.5
FIESTA CINCO (DLFPS-236/3554)	5.0	6.0	7.0	7.0	6.0	6.3	7.0	7.0	7.0	7.0	6.0	6.0	6.4
APR2616	5.3	6.3	7.0	6.7	6.0	6.7	7.0	7.0	6.7	6.7	6.0	6.0	6.4
CAYMAN (GO-143)	5.3	6.3	6.7	6.7	6.0	6.0	6.7	7.0	7.3	7.0	6.0	6.3	6.4
BELIZE 2 (GO-142)	5.0	6.3	7.0	7.0	6.0	6.0	7.0	7.3	7.0	6.7	5.7	6.0	6.4
GO-141	5.0	6.3	6.7	7.0	6.0	6.0	7.0	7.0	7.0	6.7	5.7	6.3	6.4
BAR LP 6159	5.0	6.0	7.0	7.0	6.0	6.0	7.0	7.0	6.7	6.7	6.0	6.0	6.4
HELIOS (DLFPS-236/3538)	5.0	6.0	7.0	7.0	6.0	6.3	7.0	7.0	6.7	6.7	5.7	6.0	6.4
GREEN SUPREME+ (AMP-R1)	5.0	6.0	7.0	6.7	6.0	6.3	7.3	7.3	7.0	6.7	5.7	5.3	6.4
BAR LP 6117	5.0	5.7	6.7	7.0	6.0	6.3	7.0	7.0	7.0	6.3	5.7	6.3	6.3
BAR LP 6164	5.0	6.0	6.7	6.3	5.7	6.3	7.0	7.0	7.0	6.7	5.7	6.7	6.3
LPB-SD-104	5.0	5.7	6.0	7.0	6.7	6.3	7.3	7.3	6.7	6.7	6.0	5.3	6.3

TABLE 11.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
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
MRSI-PR15	5.3	6.7	7.0	6.0	6.0	6.3	7.0	7.0	6.7	6.7	6.0	5.3	6.3
SIGNET	5.0	6.0	6.7	7.0	6.0	6.3	7.3	7.3	6.7	6.3	5.7	5.7	6.3
SAVANT	5.0	5.7	6.3	6.7	6.0	6.0	7.3	7.3	7.0	6.7	5.7	6.0	6.3
JR-747	5.0	6.0	6.7	7.0	6.0	6.0	7.0	7.0	7.0	6.7	5.7	5.3	6.3
BAR LP 6162	5.0	6.0	7.0	6.0	5.7	6.0	7.0	7.0	7.0	6.7	6.0	5.7	6.3
LPB-SD-103	5.0	5.7	6.7	7.0	6.0	6.0	7.0	7.0	6.7	6.7	5.7	5.7	6.3
LPB-SD-105	5.0	6.0	6.7	7.0	6.0	6.0	7.0	7.0	7.0	6.3	5.3	5.7	6.3
APR3060	5.0	5.7	6.3	6.3	6.0	6.3	7.0	7.0	6.7	6.7	6.0	5.7	6.2
MRSI-PR16	5.3	6.3	6.3	6.3	6.0	6.0	7.0	7.0	7.0	6.3	5.3	5.7	6.2
SAGUARO	5.0	6.0	6.7	6.7	6.0	6.0	7.0	7.0	6.7	6.3	5.3	5.7	6.2
BAR LP 6131	4.7	6.0	6.3	6.7	6.0	6.0	7.0	7.0	6.7	6.3	5.7	6.0	6.2
MENSA	5.0	6.0	6.7	7.0	6.0	6.3	7.0	7.0	7.0	6.0	5.0	5.3	6.2
ALLSTAR III	5.3	6.0	6.3	6.3	5.7	6.0	7.3	7.0	6.3	6.3	5.7	5.7	6.2
BAR LP 6158	5.0	6.3	6.7	6.3	6.0	6.0	7.0	7.0	6.7	6.3	5.3	5.3	6.2
BAR LP 6165	5.0	6.0	6.7	6.7	6.0	6.0	7.0	7.0	6.0	6.0	5.3	6.0	6.1
BRIGHTSTAR SLT	5.0	6.0	6.7	6.3	6.0	6.0	6.7	6.7	6.3	6.3	6.0	5.7	6.1
BAR LP 6233	5.0	5.7	6.7	6.0	5.7	6.0	7.0	7.0	6.7	6.3	5.7	6.0	6.1
JR-888	5.0	5.7	6.0	7.0	6.0	5.7	6.7	7.0	6.7	6.7	5.7	5.7	6.1
EVOLVE	5.0	6.0	6.7	6.0	6.0	6.3	7.0	7.0	6.0	6.0	5.3	5.3	6.1
PST-2PDA	5.0	5.7	6.3	6.0	6.0	6.3	7.3	7.0	6.3	6.0	5.0	5.0	6.0
DLFPS-238/3014	5.0	6.3	6.7	6.0	6.0	6.0	6.7	6.7	6.3	6.0	5.0	5.0	6.0
LINN	4.7	5.3	5.7	5.3	5.0	6.0	6.0	6.7	6.7	6.0	5.0	5.0	5.6
LSD VALUE	0.8	0.8	0.7	0.6	0.5	0.7	0.8	0.7	0.9	1.0	1.1	1.2	0.5
C.V. (%)	9.5	8.2	5.9	5.2	5.3	7.0	6.5	6.1	7.8	8.4	10.4	12.4	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 12.

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

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS								
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
FURLONG (LTP-FCB)	6.7	5.3	6.3	7.0	6.3	7.0	6.3	6.7	6.7	6.7	6.0	6.6
02BS2	5.7	5.7	6.3	6.0	6.3	6.7	6.3	6.3	6.3	6.3	6.3	6.3
FASTBALL 3GL (PPG-PR 329)	5.7	5.0	6.0	6.3	5.7	6.3	6.3	6.3	6.7	6.3	6.0	6.3
SR 4700 (DLFPS-236/3543)	5.0	5.0	5.3	6.0	6.7	6.7	6.3	6.0	6.7	6.0	5.7	6.3
APPLE 3GL (PPG-PR 339)	6.0	6.7	6.3	6.3	5.7	6.3	6.3	6.3	6.3	6.3	5.7	6.2
IVY (PST-2GTD)	6.7	6.0	6.3	5.7	5.7	6.7	6.0	6.7	6.7	6.3	5.7	6.2
PPG-PR 370	6.0	5.7	5.7	6.7	6.0	6.0	6.3	6.7	6.3	6.3	5.3	6.2
SLUGGER 3GL (PPG-PR 343)	5.3	4.3	5.0	6.0	6.3	6.0	6.3	6.3	6.3	6.3	5.7	6.2
STELLAR 4GL (PPG-PR 424)	5.0	5.3	6.0	6.0	6.0	6.0	6.3	6.0	6.7	6.3	6.3	6.2
ALLSTAR FORE (DLFPS-236/3541)	5.3	6.3	6.3	5.7	6.0	5.7	6.0	5.7	7.0	6.3	6.0	6.0
JR-123	6.3	6.0	7.0	6.0	5.7	6.0	5.7	6.7	6.0	6.3	5.7	6.0
JR-197	6.0	5.7	6.7	6.3	5.7	6.3	6.3	5.7	5.7	6.0	6.3	6.0
NP-3	5.3	5.7	6.7	5.7	6.0	6.0	6.3	5.7	6.0	6.0	6.0	6.0
PPG-PR 360	5.3	5.3	5.0	5.7	6.3	6.3	5.3	6.3	6.3	5.7	6.0	6.0
PPG-PR 367	6.7	6.0	6.3	6.0	5.7	6.3	6.3	6.3	6.0	5.7	6.0	6.0
PPG-PR 371	6.0	5.3	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	5.7	6.0
PPG-PR 372	5.0	5.0	6.0	6.0	6.0	5.7	5.7	6.0	6.0	6.3	6.0	6.0
PPG-PR 421	5.7	5.3	6.0	5.7	6.7	6.3	5.7	6.0	6.0	5.7	6.0	6.0
PST-2A2	4.3	5.3	5.3	5.7	5.3	6.3	6.7	5.7	6.0	6.0	6.0	6.0
SPIKE GLS (UF3)	6.0	4.7	6.3	6.0	5.7	6.3	6.7	5.7	5.7	6.0	5.7	6.0
023	5.0	5.0	5.7	5.7	5.7	6.0	6.0	6.7	6.0	5.7	5.7	5.9
ALLOY (RRT)	5.7	5.3	6.7	6.0	5.7	6.0	6.0	6.0	5.7	6.3	5.3	5.9
DLFPS-236/3550	5.3	5.7	5.7	5.7	6.3	6.0	6.0	6.0	6.3	5.7	5.3	5.9
DLFPS-236/3552	5.7	5.7	6.0	6.0	6.3	6.3	5.7	6.0	6.0	6.0	5.0	5.9
GATOR FORE (DLFPS-236/3544)	7.0	6.0	6.0	6.3	6.0	6.0	6.3	5.7	5.7	5.3	5.7	5.9
MYSTIQUE (DLFPS-236/3547)	4.0	4.0	4.7	5.7	6.0	5.7	5.7	6.0	7.0	6.0	5.3	5.9
PARADOX GLR (PPG-PR 331)	5.3	5.0	6.3	5.7	6.0	5.7	6.0	5.7	6.3	5.7	6.0	5.9
SUPERSTAR GL (PPG-PR 420)	5.0	4.7	5.3	5.3	6.3	5.7	6.0	6.0	6.0	6.3	5.3	5.9
BAR LP 6165	5.3	5.7	6.3	5.3	5.0	6.3	6.3	6.0	6.0	6.3	5.0	5.8
CPN	5.3	4.7	5.7	5.7	5.3	6.0	6.3	5.7	5.7	6.0	5.7	5.8
DLFPS-236/3548	5.3	5.3	6.0	5.7	5.0	6.0	6.0	6.0	6.3	5.7	6.0	5.8
FIESTA CINCO (DLFPS-236/3554)	5.3	5.7	5.3	5.0	5.7	6.0	6.3	5.7	6.7	5.7	5.0	5.8
PR-5-16	4.7	4.3	5.0	6.0	5.3	6.0	6.3	6.0	5.7	6.0	5.3	5.8
PST-2FOXY	4.7	5.0	5.3	5.3	5.7	6.3	5.7	6.0	6.0	6.0	5.7	5.8
SLIDER LS (PPG-PR 241)	5.0	4.7	5.0	5.7	6.3	6.0	5.7	5.3	5.7	5.7	5.7	5.8
XCELERATOR	6.0	5.7	6.0	6.0	5.3	6.0	6.0	5.7	6.0	5.7	5.3	5.8
ZOOM 2 (DLFPS-236/3545)	5.3	4.7	5.7	6.0	5.3	6.0	5.7	5.7	6.0	6.0	5.3	5.8
DLFPS-236/3546	5.0	5.0	6.0	5.3	6.0	5.7	6.0	5.7	5.7	5.7	5.3	5.7
DLFPS-236/3553	5.0	5.0	5.7	5.7	5.7	5.7	5.7	5.7	6.0	5.7	5.7	5.7
PR-6-15	5.0	5.0	6.0	5.3	6.0	6.3	5.3	5.3	6.0	6.0	5.3	5.7
UMPQUA	5.3	4.0	5.7	6.0	5.7	6.0	5.3	5.7	6.0	5.7	5.3	5.7
02BS1	5.3	5.3	6.0	5.7	5.7	5.3	5.7	5.7	6.0	5.7	5.3	5.6
HELIOS (DLFPS-236/3538)	5.3	5.3	5.3	5.3	5.3	6.0	5.3	5.7	6.0	5.7	5.3	5.6
MAN O WAR	5.3	4.7	6.3	6.0	5.7	5.3	5.0	6.0	6.0	5.3	5.7	5.6
NP-2	5.3	5.0	6.0	5.7	5.3	6.0	5.7	5.3	5.3	6.0	5.7	5.6
PARAGON 2 GLR (FP2)	5.7	5.0	5.7	5.7	6.0	6.3	5.3	5.3	5.3	5.3	5.7	5.6
PPG-PR 385	6.0	5.3	5.7	5.7	5.3	5.3	5.7	6.0	6.0	5.3	5.7	5.6

TABLE 12.
(CONT'D)

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

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

NAME	WEAR TOLERANCE RATINGS				QUALITY RATINGS							MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PPG-PR 422	5.0	4.3	5.3	6.0	6.0	5.7	5.7	5.3	5.3	5.7	5.3	5.6
PST-2PDA	7.3	5.3	6.7	5.3	5.0	5.7	5.7	6.0	6.0	5.7	5.7	5.6
SEABISCUIT	5.3	5.3	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.3	5.3	5.6
SIGNET	3.7	4.0	5.0	5.7	5.7	5.3	5.7	5.3	6.3	5.3	5.3	5.6
SR 4650	6.0	5.3	6.3	5.3	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6
021	5.3	5.0	5.7	5.7	5.3	5.7	5.7	5.7	5.7	5.0	5.3	5.5
BAR LP 6117	5.7	5.3	5.7	5.3	5.3	6.0	5.7	5.3	6.0	5.3	5.3	5.5
BAR LP 6131	5.7	6.0	6.0	5.0	5.0	6.3	6.3	5.7	5.7	5.7	4.7	5.5
BAR LP 6159	5.3	5.7	5.7	5.3	5.3	5.7	6.0	5.7	5.3	5.7	5.3	5.5
BAR LP 6233	5.3	5.3	6.0	5.3	5.3	6.0	5.7	5.7	5.3	6.0	5.0	5.5
BRIGHTSTAR SLT	5.7	5.3	6.3	5.7	5.3	5.7	5.7	6.0	5.3	5.3	5.0	5.5
DERBY XTREME	4.3	4.0	4.3	5.3	5.7	5.7	5.7	5.3	5.7	5.3	5.0	5.5
MIGHTIER (DLFPS-236/3542)	5.3	5.7	6.0	5.3	5.3	6.0	6.0	5.3	5.3	5.3	5.3	5.5
OVERDRIVE 5G	5.7	4.7	5.3	5.7	5.3	5.3	5.3	5.0	6.0	5.3	5.7	5.5
PHARAOH	4.7	4.7	5.7	5.3	5.7	5.7	5.7	5.0	5.3	5.3	5.7	5.5
PL2	5.3	5.0	5.3	5.3	5.3	5.7	5.3	5.3	5.7	5.3	5.7	5.5
PPG-PR 423	5.0	4.7	6.0	5.0	5.3	5.7	6.0	5.3	5.7	5.7	5.7	5.5
PST-2MAY	6.3	5.3	5.7	5.3	5.3	6.0	5.3	5.7	5.3	5.7	5.3	5.5
ASP0117 (A-PR15)	5.7	5.0	6.0	5.0	5.0	5.3	6.0	5.3	5.7	5.3	5.3	5.4
BAR LP 6158	5.7	5.0	6.3	5.3	5.3	5.7	5.3	5.3	5.3	5.7	5.3	5.4
BAR LP 6164	5.7	5.0	6.0	5.3	5.3	6.0	5.7	5.0	5.3	5.0	5.7	5.4
BELIZE 2 (GO-142)	5.0	5.3	5.7	5.0	6.0	5.3	5.3	5.3	5.3	5.3	5.3	5.4
EVOLVE	5.3	5.7	6.0	5.0	5.7	6.0	5.7	5.3	5.0	5.3	5.3	5.4
INTENSE	5.0	4.7	5.3	5.7	5.3	5.3	5.3	5.3	5.7	5.3	5.3	5.4
KARMA	5.3	4.7	6.0	5.3	5.3	5.3	5.3	5.7	5.7	5.3	5.3	5.4
MRSL-PR15	5.3	5.3	5.7	5.3	5.3	5.0	5.3	5.7	5.7	5.3	5.3	5.4
SILVER SPORT (PST-2CRP)	4.0	4.0	4.7	5.7	5.0	5.3	5.3	5.3	5.3	5.3	5.7	5.4
ALLSTAR III	5.0	4.7	5.0	5.0	5.3	5.3	5.3	5.3	5.7	5.0	5.7	5.3
APR2612	5.7	5.0	5.7	4.7	5.0	5.3	5.7	5.3	5.7	5.3	5.3	5.3
APR2616	5.7	5.3	5.7	5.0	5.3	5.7	5.3	5.3	5.3	5.0	5.3	5.3
APR3060	5.3	5.3	6.0	5.0	4.7	5.7	5.3	5.7	5.0	5.7	5.3	5.3
ASP0118GL (A-4G)	5.7	5.0	6.0	5.7	5.3	5.3	5.0	5.7	5.3	5.3	5.0	5.3
ASP0218 (A-6D)	5.7	5.0	6.0	5.3	5.0	5.3	5.3	5.3	5.3	5.3	5.0	5.3
BAR LP 6162	4.7	4.7	5.0	5.3	5.7	5.3	5.7	5.0	5.0	5.0	5.0	5.3
DLFPS-236/3540	5.3	5.3	6.0	4.7	5.0	5.7	5.3	5.3	5.7	5.3	5.0	5.3
GRAND SLAM GLD	5.3	5.0	5.7	5.3	4.7	5.0	5.0	5.7	5.7	5.3	5.7	5.3
GRAY WOLF (PST-2GAL)	6.0	5.0	6.0	5.7	5.0	5.3	5.0	5.3	5.7	5.7	5.0	5.3
HOMERUN LS (PPG-PR 419)	6.0	4.7	5.7	5.3	5.3	5.0	5.3	5.3	5.7	5.0	5.3	5.3
SAGUARO	5.0	4.3	6.0	5.3	4.7	5.7	5.7	5.0	5.7	5.7	4.7	5.3
PST-2BDT	4.7	4.3	5.0	5.3	5.0	5.0	5.0	5.7	5.3	5.3	5.0	5.2
SHIELD (02BS4)	5.3	5.0	5.7	5.0	5.3	5.7	5.3	5.0	5.0	5.0	5.3	5.2
CAYMAN (GO-143)	6.0	6.0	6.3	5.0	4.7	5.3	5.3	5.3	5.0	5.3	5.0	5.1
GO-141	4.7	4.7	6.0	5.0	5.0	5.0	5.3	5.3	5.3	5.0	4.7	5.1
GREEN SUPREME+ (AMP-R1)	4.7	5.0	5.7	5.3	5.3	5.0	5.0	5.0	5.3	5.0	4.7	5.1
MRSL-PR16	5.0	5.0	5.7	5.0	5.0	5.0	5.3	5.0	5.3	5.0	5.0	5.1
NEXUS GT (SNX)	5.0	5.0	5.3	5.0	4.7	5.0	5.0	5.3	5.3	5.3	5.0	5.1
SAVANT	3.7	3.3	3.7	5.3	5.3	5.0	5.0	5.3	5.3	5.0	4.3	5.1

TABLE 12.
(CONT'D)

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

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS							OCT	NOV	MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP				
DLFPS-236/3556	5.3	5.0	6.0	5.0	5.0	5.3	5.0	4.7	5.3	5.0	5.0	5.0	
DLFPS-238/3014	6.0	5.0	5.7	4.3	5.0	5.7	5.3	5.0	5.0	5.0	5.0	5.0	
FIREBALL (BWH)	4.7	4.7	5.7	5.0	4.7	5.3	5.0	5.0	5.0	5.0	5.0	5.0	
GRAY HAWK (PST-2FIND)	5.0	4.3	5.0	4.7	5.0	5.0	5.0	5.0	5.3	5.0	5.3	5.0	
HATRICK (BSP-17)	5.3	5.0	5.3	5.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
JR-747	3.7	3.3	4.3	5.0	4.7	5.0	5.3	5.0	5.3	5.0	4.3	5.0	
LPB-SD-101	3.3	3.7	4.3	5.7	4.3	5.3	5.3	4.7	5.3	5.0	4.3	5.0	
LPB-SD-102	4.0	4.0	4.7	5.0	5.0	5.3	5.0	5.0	5.0	5.0	4.3	5.0	
LPB-SD-103	5.0	4.3	5.0	5.0	4.3	5.0	5.3	5.3	5.3	5.3	4.3	5.0	
LPB-SD-104	3.7	4.0	4.7	5.3	5.0	5.0	5.0	5.0	5.3	5.0	4.3	5.0	
PST-2EGAD	4.7	5.0	5.3	4.7	4.7	5.3	5.3	4.7	5.3	5.0	5.0	5.0	
RAD-PR 112	5.3	5.3	6.3	5.0	5.0	5.3	5.0	5.0	5.0	5.0	5.0	5.0	
CS-6	4.7	5.3	5.0	4.7	4.3	5.0	5.0	5.0	5.0	5.0	5.0	4.9	
MENSA	4.7	4.3	5.0	4.7	4.3	5.0	5.0	4.7	5.7	5.0	4.7	4.9	
TEE-ME-UP (BSP-25)	6.3	5.3	6.0	4.7	4.7	5.0	5.0	5.0	5.3	5.0	4.7	4.9	
ASP0116EXT	4.7	4.3	5.3	4.3	4.3	4.7	5.0	4.3	4.7	4.3	5.0	4.6	
JR-888	4.0	4.3	4.7	4.7	4.3	4.7	5.0	4.3	5.3	4.3	4.0	4.6	
LPB-SD-105	3.7	4.0	4.7	4.3	4.3	4.7	5.0	4.7	5.3	4.7	4.0	4.6	
PEPPER II (RAD-PR 103)	5.7	5.0	5.7	4.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
LINN	3.3	3.7	4.0	2.0	2.0	3.7	3.0	3.3	3.3	3.0	3.0	2.9	
LSD VALUE	1.0	1.0	1.1	0.8	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.5	
C.V. (%)	11.6	12.0	10.8	9.2	8.2	9.3	8.6	9.0	8.8	9.1	9.0	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 13.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT CORVALLIS, OR 1/
2021 DATA

NAME	GENETIC COLOR	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/												MEAN	
		JAN	FEB	MAR	APR	QUALITY RATINGS		JUL	AUG	SEP	OCT	NOV	DEC		
						MAY	JUN								
ALLOY (RRT)	7.7	5.7	6.3	7.0	7.0	6.3	7.0	7.3	8.0	8.0	8.0	7.7	7.7	7.0	7.1
PPG-PR 372	8.0	6.0	6.7	7.0	7.0	6.7	7.0	7.7	8.0	8.0	7.7	6.7	6.7	6.7	7.1
PST-2FOXY	8.0	6.0	7.0	7.0	7.0	6.7	6.3	7.7	8.0	8.0	8.0	7.3	6.7	6.7	7.1
JR-197	8.0	6.0	6.3	7.0	7.0	6.0	7.0	8.0	8.0	8.0	7.3	6.3	6.7	6.7	7.0
MYSTIQUE (DLFPS-236/3547)	7.0	5.7	6.7	6.7	7.0	6.7	7.0	7.7	8.0	7.7	7.3	6.3	7.3	7.0	7.0
PARAGON 2 GLR (FP2)	7.7	5.7	6.3	7.0	7.0	6.3	7.0	7.7	7.7	7.7	7.7	7.0	6.7	6.7	7.0
PR-6-15	7.7	5.7	6.7	7.0	7.0	7.0	6.7	7.3	7.7	7.7	7.7	6.7	6.7	6.7	7.0
02BS1	7.7	5.3	6.3	7.0	7.0	6.0	7.0	7.7	7.7	7.7	7.7	7.0	6.0	6.0	6.9
ALLSTAR FORE (DLFPS-236/3541)	8.0	5.3	6.3	7.0	7.0	6.3	6.3	7.7	8.0	8.0	7.3	6.3	7.3	6.9	6.9
APPLE 3GL (PPG-PR 339)	7.7	5.3	6.3	7.0	7.0	6.7	7.0	7.3	7.7	7.7	7.3	6.7	7.0	6.9	6.9
DLFPS-236/3546	8.0	5.7	6.3	7.0	7.0	7.0	7.0	7.3	8.0	8.0	7.0	5.7	6.3	6.9	6.9
FASTBALL 3GL (PPG-PR 329)	7.7	5.0	6.0	7.0	7.0	6.0	6.7	8.0	8.0	8.0	8.0	7.0	6.3	6.9	6.9
FURLONG (LTP-FCB)	8.0	5.3	6.3	7.0	7.0	6.3	7.0	7.7	8.0	8.0	7.0	6.0	7.0	6.9	6.9
INTENSE	8.0	5.0	6.3	7.0	7.0	6.0	6.7	7.7	8.0	8.0	8.0	7.3	6.0	6.9	6.9
PPG-PR 367	8.0	5.7	6.7	7.0	7.0	6.3	7.0	7.7	8.0	8.0	7.3	6.3	6.3	6.9	6.9
PST-2A2	7.3	5.7	6.7	7.0	7.0	6.7	7.0	7.0	7.7	7.7	7.7	7.0	6.0	6.9	6.9
STELLAR 4GL (PPG-PR 424)	7.7	5.0	6.3	7.0	7.0	6.0	7.0	8.0	8.0	8.0	7.3	6.3	6.3	6.9	6.9
SUPERSTAR GL (PPG-PR 420)	7.7	5.3	6.3	7.0	7.0	6.0	7.0	8.0	8.0	7.7	7.3	6.7	6.0	6.9	6.9
ZOOM 2 (DLFPS-236/3545)	7.7	5.3	6.3	6.7	7.0	6.0	6.3	7.3	8.0	8.0	8.0	7.3	6.3	6.9	6.9
02BS2	7.3	5.3	6.3	7.0	7.0	6.0	6.7	7.7	7.7	7.7	7.7	7.0	6.0	6.8	6.8
ASP0117 (A-PR15)	7.3	5.3	6.3	7.0	7.0	6.7	6.7	8.0	8.0	7.0	7.0	6.3	6.3	6.8	6.8
ASP0218 (A-6D)	7.7	5.3	6.3	6.7	7.0	6.3	6.7	7.3	7.7	7.7	7.7	7.0	6.3	6.8	6.8
DERBY XTREME	7.7	5.3	6.3	7.0	7.0	6.0	6.3	7.7	7.7	7.7	7.7	6.7	6.7	6.8	6.8
DLFPS-236/3552	8.0	5.7	6.0	7.0	7.0	6.3	7.0	8.0	8.0	8.0	7.0	5.3	6.7	6.8	6.8
DLFPS-236/3556	8.0	5.7	6.3	6.7	7.0	6.3	6.7	7.3	8.0	8.0	7.0	5.7	6.7	6.8	6.8
KARMA	7.7	5.3	6.3	7.0	7.0	6.3	7.0	7.0	7.7	7.7	7.3	6.7	6.0	6.8	6.8
MAN O WAR	7.7	5.7	6.0	7.0	7.0	6.0	6.7	7.7	7.7	7.7	7.3	6.3	6.3	6.8	6.8
NP-2	7.7	6.0	6.3	7.0	7.0	6.0	7.0	7.3	7.3	7.3	7.3	6.3	6.0	6.8	6.8
OVERDRIVE 5G	7.7	6.0	6.3	7.0	7.0	6.0	6.3	7.3	8.0	8.0	7.3	6.3	6.0	6.8	6.8
PPG-PR 371	7.7	5.0	6.3	7.0	7.0	6.7	7.0	7.7	7.7	7.7	7.0	5.7	6.7	6.8	6.8
PPG-PR 422	7.7	6.0	6.3	7.0	7.0	6.3	7.0	7.3	7.7	7.7	7.3	6.3	6.0	6.8	6.8
PST-2MAY	7.7	5.3	6.0	7.0	7.0	6.3	6.3	7.3	8.0	8.0	7.3	6.3	6.0	6.8	6.8
SILVER SPORT (PST-2CRP)	7.7	6.0	6.3	7.0	7.0	6.3	6.3	7.3	7.7	7.7	7.3	6.7	5.7	6.8	6.8
SLUGGER 3GL (PPG-PR 343)	7.7	5.7	6.3	7.0	7.0	6.0	7.0	7.7	7.7	7.3	7.0	6.0	6.7	6.8	6.8
SPIKE GLS (UF3)	7.7	5.3	6.0	6.3	7.0	6.0	6.7	7.7	7.7	7.7	7.7	7.0	6.3	6.8	6.8
021	7.3	5.7	6.3	7.0	7.0	6.0	7.0	7.0	7.3	7.3	7.0	6.0	6.7	6.7	6.7
023	7.7	4.7	6.0	7.0	7.0	6.3	6.7	7.7	8.0	8.0	7.0	5.7	6.3	6.7	6.7
ASP0118GL (A-4G)	7.7	5.3	6.3	6.7	7.0	6.3	6.3	7.0	7.7	7.7	7.3	6.3	6.3	6.7	6.7
DLFPS-236/3548	7.3	5.0	6.0	7.0	7.0	6.3	6.3	7.3	7.7	7.3	7.3	6.3	6.3	6.7	6.7
FIESTA CINCO (DLFPS-236/3554)	7.3	5.0	6.0	6.7	7.0	6.3	6.7	7.0	7.7	7.7	7.7	7.0	5.3	6.7	6.7
GATOR FORE (DLFPS-236/3544)	7.3	5.7	6.3	7.0	7.0	6.3	7.0	7.0	7.7	7.3	6.7	6.0	6.7	6.7	6.7
GRAND SLAM GLD	8.0	5.3	6.3	7.0	7.0	6.3	6.3	7.0	8.0	8.0	7.0	6.0	6.3	6.7	6.7
GRAY WOLF (PST-2GAL)	8.0	5.0	6.0	7.0	6.7	6.3	6.7	7.3	8.0	8.0	7.3	6.3	5.7	6.7	6.7
JR-123	7.7	5.0	6.0	6.7	7.0	6.0	6.7	7.7	8.0	8.0	7.3	6.3	6.0	6.7	6.7
PARADOX GLR (PPG-PR 331)	7.7	5.0	5.7	6.7	7.0	6.0	6.7	7.7	7.7	7.7	7.7	7.0	5.7	6.7	6.7
PL2	7.7	5.3	6.0	6.7	6.7	6.0	6.7	7.3	7.7	7.7	7.3	6.7	6.0	6.7	6.7
PPG-PR 360	7.7	5.0	6.0	7.0	7.0	6.0	7.0	7.0	7.7	7.7	7.7	6.7	6.0	6.7	6.7

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
GROWN UNDER TRAFFIC STRESS AT CORVALLIS, OR 1/
2021 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPG-PR 385	7.3	5.3	6.3	7.0	7.0	6.0	7.0	7.0	7.3	7.3	7.3	6.7	6.3	6.7
PPG-PR 423	7.7	5.0	6.0	7.0	7.0	6.7	6.3	7.0	7.7	7.7	7.3	6.7	6.0	6.7
PST-2BDT	7.3	5.0	6.0	7.0	7.0	6.0	6.3	7.3	7.3	7.3	7.3	6.7	6.7	6.7
SEABISCUIT	7.7	5.3	6.0	6.7	6.7	6.0	7.0	7.7	8.0	7.7	7.3	6.3	6.0	6.7
SLIDER LS (PPG-PR 241)	8.0	5.0	5.7	6.7	6.7	6.7	6.7	7.3	7.7	7.7	7.7	7.0	6.0	6.7
SR 4700 (DLFPS-236/3543)	7.7	5.0	6.0	7.0	7.0	6.3	6.3	7.3	8.0	8.0	7.3	5.7	6.3	6.7
UMPQUA	7.3	5.3	6.3	7.0	7.0	6.0	7.0	7.3	7.7	7.3	7.0	6.3	6.3	6.7
XCELERATOR	7.0	5.0	6.0	7.0	7.0	6.3	6.7	7.3	7.3	7.3	7.3	6.7	6.0	6.7
ASP0116EXT	7.0	5.3	6.3	7.0	7.0	6.3	6.7	7.0	7.0	7.0	7.0	6.7	5.7	6.6
CPN	7.3	5.3	6.3	7.0	7.0	6.0	6.3	7.7	7.7	7.3	7.0	6.3	5.7	6.6
CS-6	7.0	5.0	6.7	7.0	7.0	6.0	6.3	7.3	7.7	7.3	6.7	5.7	6.0	6.6
DLFPS-236/3550	7.0	5.0	6.0	7.0	7.0	6.0	6.3	7.0	7.0	7.0	7.0	7.0	6.3	6.6
DLFPS-236/3553	7.3	5.0	6.3	7.0	7.0	6.0	6.0	7.3	7.3	7.3	7.3	7.0	6.0	6.6
HOMERUN LS (PPG-PR 419)	7.3	5.3	6.3	6.7	7.0	6.3	6.3	7.3	7.3	7.0	7.0	6.3	5.7	6.6
IVY (PST-2GTD)	7.3	5.3	6.3	6.7	7.0	6.3	6.7	7.0	7.3	7.3	7.3	6.3	5.7	6.6
JR-888	7.0	5.0	6.0	6.7	7.0	6.0	6.0	7.3	7.3	7.0	7.3	7.3	5.7	6.6
LPB-SD-102	7.3	5.0	6.0	6.3	7.0	6.7	6.7	7.0	7.3	7.0	7.3	6.7	6.3	6.6
NEXUS GT (SNX)	7.7	5.0	6.0	7.0	6.3	6.0	6.7	6.7	7.3	7.7	7.3	6.3	6.3	6.6
PEPPER II (RAD-PR 103)	7.3	5.0	6.3	6.7	7.0	6.0	6.0	7.0	7.3	7.3	7.3	7.0	6.0	6.6
PHARAOH	7.3	5.3	6.0	7.0	7.0	6.0	6.7	7.0	7.3	7.3	7.0	6.0	6.3	6.6
PPG-PR 370	7.3	5.0	5.7	6.7	7.0	6.3	6.7	7.7	7.7	7.3	7.0	6.0	6.0	6.6
PPG-PR 421	7.7	5.0	6.3	7.0	7.0	6.3	6.7	7.0	7.7	7.7	7.0	5.7	6.0	6.6
PR-5-16	7.0	5.0	6.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	7.0	7.0	6.0	6.6
RAD-PR 112	7.7	5.0	6.3	7.0	7.0	6.0	6.3	7.0	7.7	7.7	7.3	6.0	5.7	6.6
SAGUARO	7.0	5.3	6.0	6.7	7.0	6.0	6.0	7.0	7.3	7.3	7.3	6.7	6.0	6.6
APR2612	7.7	5.0	6.0	6.7	7.0	6.0	6.3	7.0	7.3	7.3	7.0	6.3	5.7	6.5
CAYMAN (GO-143)	7.7	5.0	6.0	6.7	7.0	6.3	6.3	7.0	7.3	7.3	7.0	6.0	6.0	6.5
GRAY HAWK (PST-2FIND)	7.7	5.0	5.7	6.7	7.0	6.0	6.3	7.0	7.3	7.3	7.3	6.3	5.7	6.5
HATRICK (BSP-17)	8.0	5.3	6.7	7.0	6.7	6.0	7.0	7.0	7.0	7.0	6.7	6.0	6.0	6.5
JR-747	7.0	5.0	6.0	6.7	7.0	6.3	6.3	7.3	7.3	6.7	7.3	7.0	5.3	6.5
LPB-SD-101	7.3	5.0	5.7	6.3	6.7	6.0	6.7	7.7	7.7	7.3	7.0	6.0	6.0	6.5
LPB-SD-105	7.3	5.0	6.0	7.0	7.0	6.0	6.0	7.0	7.3	7.3	7.3	7.0	5.3	6.5
MIGHTIER (DLFPS-236/3542)	7.3	5.3	6.0	7.0	7.0	6.7	6.3	7.0	7.3	7.3	7.0	6.0	5.3	6.5
MRSI-PR16	7.3	5.3	6.3	6.7	6.7	6.0	6.0	7.0	7.3	7.3	7.0	6.3	5.7	6.5
NP-3	7.7	5.3	6.0	7.0	7.0	6.0	6.7	7.0	7.7	7.7	6.7	5.0	6.0	6.5
PST-2EGAD	7.3	5.3	6.0	7.0	6.0	6.0	6.3	7.0	7.3	7.3	7.3	6.3	6.3	6.5
BAR LP 6117	7.0	5.0	5.7	7.0	7.0	6.0	6.0	7.0	7.0	7.0	7.0	6.7	5.7	6.4
BAR LP 6158	7.0	5.0	6.0	7.0	6.7	6.0	6.3	7.0	7.0	7.0	7.0	6.7	5.3	6.4
BAR LP 6159	7.3	5.0	5.7	7.0	6.7	6.0	6.0	6.7	7.3	7.3	7.3	6.7	5.3	6.4
BAR LP 6164	7.0	5.0	6.0	7.0	6.7	6.0	6.3	7.0	7.0	7.0	7.0	6.3	5.3	6.4
BAR LP 6165	7.0	5.0	6.0	6.7	7.0	6.0	6.0	7.0	7.0	7.0	7.0	6.7	5.7	6.4
BELIZE 2 (GO-142)	7.0	5.0	6.3	7.0	7.0	6.0	6.3	7.0	7.3	7.3	6.7	5.3	6.0	6.4
BRIGHTSTAR SLT	7.0	4.3	5.7	6.7	6.3	6.0	6.0	7.0	7.0	7.0	7.3	7.3	5.7	6.4
DLFPS-236/3540	7.0	5.0	6.0	6.7	7.0	6.3	6.3	7.0	7.3	6.7	7.0	6.7	5.3	6.4
DLFPS-238/3014	6.7	5.0	6.3	7.0	6.7	6.0	6.0	6.7	6.7	6.7	7.0	6.7	5.7	6.4
GREEN SUPREME+ (AMP-R1)	7.0	5.0	5.7	6.7	7.0	6.0	6.3	7.0	7.0	7.0	7.0	6.7	5.7	6.4
HELIOS (DLFPS-236/3538)	7.0	5.0	5.7	7.0	7.0	6.0	6.3	7.0	7.0	6.7	6.7	6.3	6.0	6.4

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
GROWN UNDER TRAFFIC STRESS AT CORVALLIS, OR 1/
2021 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
LPB-SD-104	7.0	4.7	5.0	6.3	7.0	6.0	6.0	7.7	7.7	6.7	7.3	7.3	5.0	6.4
SHIELD (02BS4)	7.0	5.3	6.3	7.0	6.3	6.0	6.0	6.7	7.0	7.0	6.7	6.3	6.0	6.4
SIGNET	7.3	5.0	5.7	6.7	7.0	6.0	6.3	7.0	7.0	7.0	7.0	6.7	6.0	6.4
SR 4650	7.3	4.7	6.0	6.7	6.3	6.0	6.7	7.3	7.7	7.0	6.7	6.0	6.0	6.4
APR2616	7.0	5.0	6.0	7.0	7.0	6.0	6.0	7.0	7.3	7.3	6.7	5.3	5.3	6.3
BAR LP 6131	7.0	4.7	5.7	6.7	7.0	6.0	6.3	6.7	7.0	6.7	7.0	6.7	5.0	6.3
BAR LP 6162	7.0	5.0	6.0	7.0	6.0	5.7	5.3	7.0	7.0	7.0	7.0	6.7	5.7	6.3
FIREBALL (BWH)	8.0	5.0	6.0	7.0	7.0	6.0	6.0	7.0	7.0	7.0	6.3	5.7	5.7	6.3
GO-141	7.0	5.0	6.0	6.7	7.0	6.0	6.0	7.0	7.0	7.0	6.3	5.3	6.0	6.3
LPB-SD-103	7.0	5.0	5.7	6.3	7.0	6.0	6.3	7.0	7.0	6.7	6.7	6.7	5.0	6.3
MENSA	7.0	5.0	5.7	6.3	6.7	6.3	6.3	7.0	7.0	6.7	6.7	6.3	5.3	6.3
MRSI-PR15	7.0	5.0	6.0	7.0	7.0	6.0	6.3	7.3	7.0	6.7	6.3	5.7	5.3	6.3
PST-2PDA	7.0	5.0	6.0	7.0	6.3	6.0	6.0	6.7	7.0	6.7	7.0	7.0	5.0	6.3
SAVANT	7.3	5.0	5.7	6.7	7.0	6.0	5.7	7.0	7.3	7.0	6.7	6.3	5.7	6.3
TEE-ME-UP (BSP-25)	7.0	5.3	6.3	7.0	6.7	6.0	6.3	6.7	6.7	6.7	6.3	6.0	6.0	6.3
APR3060	7.3	5.0	6.0	6.3	6.3	6.0	6.0	7.0	7.0	6.7	6.3	6.0	5.7	6.2
BAR LP 6233	7.0	5.0	5.7	6.0	6.3	6.0	6.0	7.0	7.0	7.0	7.0	6.0	5.7	6.2
ALLSTAR III	7.0	5.0	5.3	6.3	6.7	6.0	6.0	7.0	7.0	6.7	6.7	6.0	5.0	6.1
EVOLVE	7.0	5.0	5.7	6.3	6.0	6.0	6.0	7.0	7.0	6.3	6.7	6.7	5.0	6.1
LINN	6.3	4.7	5.3	6.3	5.3	5.3	5.7	6.0	6.7	6.7	6.3	5.7	5.7	5.8
LSD VALUE	0.9	0.8	1.9	1.8	0.4	0.8	0.8	0.8	0.8	0.9	1.1	1.6	1.7	0.4
C.V. (%)	5.9	7.4	8.4	5.9	3.7	5.7	6.7	5.7	5.7	6.6	6.9	10.7	11.5	3.6

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

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

TABLE 14.

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

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/							MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
02BS2	6.0	6.3	4.7	6.0	6.3	6.0	6.3	6.0
DLFPS-236/3556	6.3	6.0	5.0	5.7	6.0	6.7	6.0	6.0
MYSTIQUE (DLFPS-236/3547)	5.3	5.7	5.0	6.3	6.0	6.0	6.3	5.8
STELLAR 4GL (PPG-PR 424)	5.7	6.7	4.7	5.7	6.3	5.7	6.0	5.8
JR-197	5.7	6.3	4.7	5.3	6.3	5.7	6.0	5.7
PPG-PR 367	5.3	5.7	5.0	6.3	5.7	5.7	6.0	5.7
PPG-PR 423	5.7	6.7	4.7	5.7	5.7	5.7	6.0	5.7
SUPERSTAR GL (PPG-PR 420)	5.7	6.7	5.0	5.7	5.3	5.7	5.7	5.7
BAR LP 6233	6.0	6.7	4.7	5.7	5.0	5.7	5.3	5.6
DLFPS-236/3553	5.3	6.0	4.7	5.3	5.7	6.3	5.7	5.6
NP-3	5.7	6.3	4.3	5.0	6.0	6.0	5.7	5.6
OVERDRIVE 5G	5.7	6.7	4.7	5.0	5.7	5.3	6.0	5.6
SLIDER LS (PPG-PR 241)	4.7	6.3	4.7	5.7	5.7	6.0	6.0	5.6
021	5.0	5.7	5.0	5.3	5.3	5.7	6.3	5.5
ASP0117 (A-PR15)	5.3	5.0	5.0	5.7	5.3	6.0	6.0	5.5
DLFPS-238/3014	6.0	6.3	4.7	5.3	5.7	5.0	5.3	5.5
INTENSE	4.3	6.0	4.7	6.0	5.7	5.7	6.0	5.5
PPG-PR 422	5.0	5.7	5.0	5.7	5.7	5.7	6.0	5.5
023	4.7	6.0	4.7	5.0	6.0	5.7	6.0	5.4
DLFPS-236/3548	5.3	6.0	5.0	5.3	5.0	5.7	5.7	5.4
FIESTA CINCO (DLFPS-236/3554)	5.3	5.7	4.7	5.0	5.7	5.7	5.7	5.4
PST-2A2	5.0	6.7	4.7	5.0	5.3	5.3	5.7	5.4
02BS1	5.0	6.3	4.7	5.0	5.0	5.3	6.0	5.3
HOMERUN LS (PPG-PR 419)	5.0	6.0	4.7	5.7	5.0	5.0	5.7	5.3
LPB-SD-103	5.3	5.7	4.7	5.3	5.0	5.7	5.7	5.3
MAN O WAR	4.7	6.7	4.7	5.0	5.3	5.3	5.7	5.3
NP-2	4.3	5.3	5.0	5.3	5.7	5.7	6.0	5.3
PARADOX GLR (PPG-PR 331)	5.0	6.3	5.0	4.7	5.0	5.7	5.3	5.3
PARAGON 2 GLR (FP2)	4.7	5.7	5.0	5.3	5.0	5.7	5.7	5.3
PL2	5.3	5.7	4.7	4.7	5.0	6.0	6.0	5.3
PR-6-15	5.0	6.7	4.7	4.7	5.0	5.7	5.3	5.3
PST-2BDT	4.3	5.7	4.3	5.0	5.7	5.7	6.3	5.3
PST-2PDA	5.3	6.3	4.7	5.0	5.0	5.7	5.3	5.3
SR 4700 (DLFPS-236/3543)	4.3	5.7	5.0	5.3	5.0	5.7	6.0	5.3
ZOOM 2 (DLFPS-236/3545)	5.3	5.7	4.7	5.0	5.3	5.3	6.0	5.3
CPN	5.0	6.3	4.7	4.7	4.7	5.3	5.7	5.2
DLFPS-236/3546	4.7	6.0	4.3	5.3	5.0	5.7	5.3	5.2
GATOR FORE (DLFPS-236/3544)	4.3	6.0	5.0	5.0	4.7	6.0	5.3	5.2
HELIOS (DLFPS-236/3538)	5.3	6.0	4.7	4.7	4.7	5.3	5.7	5.2
IVY (PST-2GTD)	4.7	6.3	4.7	5.0	5.0	5.3	5.3	5.2
KARMA	4.3	5.7	5.0	5.0	5.0	5.7	5.7	5.2
PPG-PR 370	5.3	5.7	4.7	4.7	4.7	5.7	5.7	5.2
PPG-PR 421	5.7	6.0	4.7	5.0	5.0	5.3	5.0	5.2
SAGUARO	5.3	5.3	4.7	4.7	5.3	5.7	5.3	5.2
XCELERATOR	5.0	6.3	4.7	5.0	5.0	5.0	5.7	5.2
ALLOY (RRT)	5.0	5.7	4.7	5.0	4.7	5.0	5.7	5.1
APR3060	5.0	6.0	4.7	4.7	5.3	5.0	5.3	5.1

TABLE 14. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2021 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/							MEAN
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BAR LP 6165	5.3	5.7	4.3	5.0	4.3	5.0	6.0	5.1
FURLONG (LTP-FCB)	4.7	5.3	4.3	5.3	4.7	5.7	5.7	5.1
PPG-PR 360	5.0	5.0	4.7	4.3	5.7	5.3	6.0	5.1
SAVANT	5.7	6.0	4.3	4.0	4.3	5.7	5.7	5.1
SILVER SPORT (PST-2CRP)	4.7	5.7	4.3	5.3	5.3	5.0	5.7	5.1
SPIKE GLS (UF3)	4.7	5.3	4.3	5.0	4.7	6.0	6.0	5.1
APR2612	4.0	5.7	4.7	5.0	5.0	5.0	5.7	5.0
ASP0218 (A-6D)	5.3	6.3	4.3	4.3	4.7	5.0	5.0	5.0
FASTBALL 3GL (PPG-PR 329)	5.7	5.3	4.3	4.7	4.7	5.0	5.7	5.0
PST-2EGAD	5.7	5.3	4.0	4.3	4.7	5.0	6.0	5.0
SIGNET	4.0	6.3	4.7	4.7	5.0	5.0	5.7	5.0
UMPQUA	4.0	4.0	4.7	6.0	5.3	5.7	5.7	5.0
BAR LP 6131	5.3	5.7	4.0	4.3	4.3	5.3	5.3	4.9
BELIZE 2 (GO-142)	4.7	6.0	4.3	4.3	4.3	5.0	5.7	4.9
DLFPS-236/3540	4.0	6.3	4.3	4.3	4.7	5.0	5.3	4.9
DLFPS-236/3552	4.0	5.7	4.3	5.3	4.7	5.0	5.3	4.9
EVOLVE	4.3	6.0	4.7	4.3	5.0	5.0	5.0	4.9
GO-141	5.0	5.7	4.7	4.7	4.3	4.7	5.0	4.9
JR-888	4.0	5.7	4.3	5.0	4.7	5.3	5.3	4.9
PHARAOH	4.7	5.3	4.7	4.7	4.7	5.0	5.3	4.9
PPG-PR 371	4.7	5.3	4.7	5.3	4.7	4.3	5.3	4.9
PPG-PR 385	5.3	5.3	4.7	4.3	5.0	4.3	5.0	4.9
PR-5-16	5.0	4.7	4.3	4.7	4.7	5.3	5.7	4.9
SEABISCUIT	4.7	5.3	4.3	4.0	5.0	5.3	5.3	4.9
APPLE 3GL (PPG-PR 339)	4.0	5.3	4.3	4.3	5.0	5.3	5.0	4.8
BAR LP 6158	4.7	5.7	4.3	4.3	4.7	5.0	4.7	4.8
BAR LP 6164	4.3	5.3	4.7	4.3	4.7	5.0	5.3	4.8
CS-6	4.7	5.7	4.0	5.0	3.7	5.0	5.3	4.8
DERBY XTREME	4.0	5.7	4.3	4.7	4.3	5.0	5.3	4.8
TEE-ME-UP (BSP-25)	4.3	5.3	4.3	4.3	4.7	4.7	5.7	4.8
ALLSTAR FORE (DLFPS-236/3541)	4.3	5.3	4.7	4.3	4.7	4.7	5.0	4.7
ALLSTAR III	4.7	5.3	4.3	3.7	4.3	5.0	5.7	4.7
APR2616	5.0	5.3	4.7	4.7	4.0	4.0	5.0	4.7
GRAY HAWK (PST-2FIND)	4.0	5.3	4.3	4.3	4.7	5.0	5.0	4.7
GRAY WOLF (PST-2GAL)	4.3	5.3	4.0	4.0	4.7	4.7	5.7	4.7
LPB-SD-101	4.7	4.3	4.0	5.0	4.3	5.0	5.3	4.7
MENSA	4.3	5.3	4.3	4.3	4.7	5.0	5.0	4.7
MIGHTIER (DLFPS-236/3542)	4.0	5.0	4.7	4.3	5.0	4.7	5.3	4.7
SR 4650	4.0	5.3	4.3	4.7	4.3	5.0	5.3	4.7
BRIGHTSTAR SLT	4.0	5.3	4.0	4.0	4.0	5.7	5.3	4.6
GREEN SUPREME+ (AMP-R1)	3.7	5.0	4.3	4.3	5.0	5.0	5.0	4.6
MRS-L-PR16	4.0	5.0	4.3	4.0	5.0	4.7	5.3	4.6
PPG-PR 372	4.0	4.0	4.7	4.7	5.0	4.7	5.3	4.6
PST-2MAY	3.7	5.3	4.0	4.7	5.0	4.7	4.7	4.6
ASP0118GL (A-4G)	3.7	4.7	4.3	4.7	4.3	4.3	5.3	4.5
FIREBALL (BWH)	3.7	4.7	4.3	4.3	4.3	5.0	5.0	4.5
JR-123	3.7	4.0	4.3	4.0	4.3	5.3	6.0	4.5

TABLE 14. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2021 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/								
NAME	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
MRSI-PR15	4.3	5.3	4.3	4.0	4.3	4.3	4.7	4.5
SHIELD (02BS4)	4.7	5.0	3.7	4.3	4.3	4.7	5.0	4.5
DLFFS-236/3550	4.3	4.7	3.7	4.3	4.0	5.0	5.0	4.4
HATRICK (BSP-17)	4.0	5.3	4.0	4.0	4.0	4.3	5.0	4.4
PEPPER II (RAD-PR 103)	4.0	5.0	4.0	4.3	4.0	4.7	5.0	4.4
BAR LP 6117	4.7	5.0	4.0	3.7	4.0	4.3	4.7	4.3
BAR LP 6159	4.3	5.0	3.7	4.3	3.7	5.0	4.0	4.3
GRAND SLAM GLD	4.0	4.7	4.0	3.7	4.0	4.3	5.3	4.3
PST-2FOXY	4.0	4.7	4.3	4.3	4.0	4.3	4.7	4.3
ASP0116EXT	3.3	5.0	4.0	4.7	4.0	4.0	4.7	4.2
LPB-SD-105	3.7	3.7	4.3	4.3	4.0	4.0	5.0	4.1
NEXUS GT (SNX)	3.7	4.0	3.7	4.0	3.7	4.7	5.3	4.1
SLUGGER 3GL (PPG-PR 343)	3.3	4.7	4.0	3.7	4.0	4.0	5.0	4.1
BAR LP 6162	3.3	4.7	3.0	4.3	4.0	4.0	4.3	4.0
CAYMAN (GO-143)	3.3	4.7	3.7	3.7	3.3	4.3	5.3	4.0
LPB-SD-102	3.3	4.3	4.0	4.3	3.3	4.0	5.0	4.0
LPB-SD-104	3.7	4.3	3.7	4.0	3.7	4.3	4.0	4.0
JR-747	3.3	4.0	3.3	3.3	4.0	4.3	4.7	3.9
RAD-PR 112	3.0	4.0	3.3	3.7	3.7	3.7	4.3	3.7
LINN	2.7	2.7	3.0	2.7	3.3	3.7	3.7	3.1
LSD VALUE	2.2	1.9	1.7	1.8	1.4	1.4	1.4	1.0
C.V. (%)	21.2	16.9	13.9	17.7	15.8	13.8	12.0	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 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDERT DROUGHT AT LOGAN, UT 1/
2021 DATA

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

NAME	QUALITY RATINGS							MEAN
	SPRING GREENUP	MAY	JUN	JUL	AUG	SEP	OCT	
SLUGGER 3GL (PPG-PR 343)	4.7	6.0	7.0	6.3	7.0	8.0	6.7	6.8
MYSTIQUE (DLFPS-236/3547)	4.7	6.3	6.3	6.7	6.3	7.7	6.7	6.7
PARADOX GLR (PPG-PR 331)	4.7	6.3	7.0	6.0	6.3	7.7	6.7	6.7
SLIDER LS (PPG-PR 241)	5.3	6.7	6.3	6.3	6.3	7.7	6.7	6.7
FIREBALL (BWH)	5.7	7.3	6.0	5.3	7.0	7.7	6.0	6.6
GATOR FORE (DLFPS-236/3544)	5.7	6.0	5.7	6.3	6.3	8.3	6.7	6.6
HATRICK (BSP-17)	5.7	6.7	6.7	6.7	6.0	7.3	6.3	6.6
PARAGON 2 GLR (FP2)	4.7	7.0	6.3	5.0	6.3	8.3	6.7	6.6
PPG-PR 423	5.7	7.3	6.3	5.3	6.7	7.7	6.3	6.6
PST-2MAY	5.7	7.3	6.0	5.7	6.7	7.3	6.7	6.6
FIESTA CINCO (DLFPS-236/3554)	5.3	7.3	7.0	5.7	5.7	7.3	6.0	6.5
FURLONG (LTP-FCB)	5.3	6.0	6.0	5.7	6.0	8.3	7.0	6.5
NP-2	5.3	6.7	6.3	6.7	5.7	7.3	6.3	6.5
SILVER SPORT (PST-2CRP)	5.3	6.0	6.3	6.7	6.0	7.7	6.3	6.5
ASP0117 (A-PR15)	5.7	6.7	6.3	6.0	6.0	7.3	6.0	6.4
DLFPS-236/3553	4.3	7.0	6.0	5.7	5.7	8.0	6.3	6.4
GREEN SUPREME+ (AMP-R1)	5.3	7.3	6.0	5.0	6.0	8.0	6.0	6.4
MIGHTIER (DLFPS-236/3542)	5.0	7.0	6.0	5.7	7.0	7.0	6.0	6.4
PPG-PR 370	4.3	7.3	6.7	5.3	6.0	7.0	6.0	6.4
PST-2A2	5.3	6.7	5.7	5.3	6.7	7.7	6.3	6.4
ALLSTAR FORE (DLFPS-236/3541)	5.3	6.3	6.0	6.3	5.0	8.0	6.3	6.3
APR2616	4.7	6.7	6.0	6.3	5.3	7.3	6.0	6.3
ASP0116EXT	5.3	6.7	5.7	5.3	6.3	7.7	6.3	6.3
CS-6	5.0	6.0	6.7	6.3	5.7	7.3	6.0	6.3
DLFPS-236/3540	5.0	6.3	7.0	6.3	5.0	7.0	6.0	6.3
DLFPS-236/3550	5.0	7.0	6.0	5.3	6.3	7.0	6.0	6.3
DLFPS-236/3552	4.7	7.0	6.0	5.0	6.0	8.0	5.7	6.3
INTENSE	5.7	6.3	6.3	6.0	5.3	7.7	6.0	6.3
LPB-SD-103	5.0	6.7	6.3	5.7	6.3	7.0	6.0	6.3
MRS�-PR16	5.7	6.3	6.7	6.0	5.0	7.3	6.3	6.3
NEXUS GT (SNX)	5.3	6.3	6.3	6.0	6.3	7.0	6.0	6.3
PPG-PR 371	4.3	5.7	6.3	6.0	6.3	7.7	6.0	6.3
PPG-PR 422	5.0	6.7	5.7	5.3	7.0	7.0	6.3	6.3
PST-2FOXY	4.3	6.7	6.3	5.7	5.7	7.7	6.0	6.3
SPIKE GLS (UF3)	5.0	6.3	6.7	5.7	6.0	7.3	6.0	6.3
SR 4650	5.3	6.3	6.3	5.7	5.7	7.7	6.0	6.3
APR3060	4.3	6.7	6.0	5.7	6.3	7.0	5.7	6.2
BAR LP 6164	4.3	6.7	5.7	6.0	5.0	7.7	6.0	6.2
DLFPS-236/3548	5.0	6.0	6.3	5.7	5.7	7.3	6.0	6.2
FASTBALL 3GL (PPG-PR 329)	5.7	6.3	6.0	5.3	6.3	7.3	6.0	6.2
GRAND SLAM GLD	4.7	6.3	6.3	5.7	5.7	7.0	6.3	6.2
GRAY HAWK (PST-2FIND)	4.3	6.3	6.0	5.3	6.3	7.3	6.0	6.2
HELIOS (DLFPS-236/3538)	4.0	6.3	6.0	6.0	5.3	7.3	6.0	6.2
HOMERUN LS (PPG-PR 419)	5.7	7.0	5.7	5.0	6.3	7.0	6.0	6.2
OVERDRIVE 5G	5.0	6.3	5.7	5.7	5.7	7.7	6.0	6.2
PPG-PR 360	5.3	6.3	5.7	5.3	6.7	7.3	6.0	6.2
PPG-PR 367	4.7	6.0	6.7	5.7	5.7	7.0	6.3	6.2

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDERT DROUGHT AT LOGAN, UT 1/
2021 DATA

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

NAME	SPRING GREENUP	MAY	JUN	QUALITY RATINGS			OCT	MEAN
				JUL	AUG	SEP		
SR 4700 (DLFPS-236/3543)	4.3	6.3	6.0	5.0	6.3	7.0	6.3	6.2
STELLAR 4GL (PPG-PR 424)	4.7	6.3	6.0	5.7	6.0	7.0	6.3	6.2
02BS2	5.3	6.0	5.7	5.3	6.3	7.0	6.0	6.1
BRIGHTSTAR SLT	4.7	6.3	5.3	6.0	5.7	7.3	6.0	6.1
CPN	5.0	5.7	6.0	5.7	6.0	7.0	6.0	6.1
GRAY WOLF (PST-2GAL)	5.0	6.0	5.7	5.0	6.7	7.0	6.3	6.1
LPB-SD-102	4.0	5.0	6.7	6.3	5.3	7.3	6.0	6.1
PPG-PR 372	4.0	6.0	5.3	5.0	6.7	7.3	6.3	6.1
PPG-PR 385	5.0	6.3	5.7	5.3	5.7	7.3	6.0	6.1
UMPQUA	4.7	6.0	6.3	6.3	5.3	7.3	6.0	6.1
APPLE 3GL (PPG-PR 339)	4.7	6.0	5.7	5.0	6.3	7.0	6.0	6.0
APR2612	5.0	6.3	5.3	5.0	6.3	7.0	6.0	6.0
PL2	4.7	5.7	6.0	6.0	5.3	7.0	6.0	6.0
RAD-PR 112	5.3	6.3	6.0	5.0	5.3	7.3	6.0	6.0
SAVANT	4.0	5.3	5.7	6.0	6.0	6.7	6.3	6.0
TEE-ME-UP (BSP-25)	5.0	5.7	6.3	5.0	6.0	6.7	6.3	6.0
021	5.0	5.3	5.7	5.0	5.7	7.7	6.0	5.9
023	4.7	5.3	6.0	5.3	5.7	7.3	6.0	5.9
ALLOY (RRT)	5.0	6.3	5.7	5.0	5.7	7.0	6.0	5.9
DERBY XTREME	5.0	6.0	5.7	4.7	5.7	7.7	6.0	5.9
DLFPS-236/3546	5.3	5.7	5.7	5.0	5.7	7.0	6.3	5.9
GO-141	5.0	6.3	6.0	5.7	4.7	7.3	5.7	5.9
IVY (PST-2GTD)	4.7	6.0	6.0	5.3	5.3	7.0	6.0	5.9
MAN O WAR	4.7	5.3	5.7	6.0	5.3	7.0	6.3	5.9
MENSA	4.0	5.3	5.7	5.3	5.7	7.3	6.0	5.9
MRSL-PR15	5.7	6.0	6.0	5.7	5.0	6.7	6.0	5.9
PPG-PR 421	5.0	6.3	6.7	4.7	5.0	7.3	5.7	5.9
PR-5-16	5.3	6.0	6.0	5.3	5.0	7.3	6.0	5.9
PR-6-15	4.7	6.0	5.0	5.3	6.0	7.0	6.0	5.9
PST-2BDT	5.0	6.3	5.3	5.3	5.0	7.0	6.3	5.9
SUPERSTAR GL (PPG-PR 420)	5.0	7.0	6.3	4.7	5.0	6.7	6.0	5.9
ZOOM 2 (DLFPS-236/3545)	4.0	5.3	6.0	5.3	5.7	7.0	6.0	5.9
02BS1	4.7	5.3	5.3	5.3	6.3	6.7	6.0	5.8
ASPO218 (A-6D)	5.3	6.0	5.3	4.7	6.0	7.0	5.7	5.8
BAR LP 6131	4.3	5.7	5.7	5.7	5.0	7.0	5.7	5.8
JR-123	4.7	5.7	5.7	5.7	5.0	7.0	6.0	5.8
JR-197	5.0	5.7	5.0	5.3	5.7	7.0	6.0	5.8
PEPPER II (RAD-PR 103)	4.7	6.0	5.0	5.3	6.0	6.7	5.7	5.8
PST-2EGAD	4.3	5.7	5.3	5.3	5.7	7.0	6.0	5.8
PST-2PDA	4.3	5.3	5.7	5.7	5.3	7.0	6.0	5.8
SEABISCUIT	5.3	4.7	5.7	5.3	6.0	7.0	6.0	5.8
SIGNET	4.7	5.3	5.7	5.7	5.0	7.3	6.0	5.8
XCELERATOR	4.7	5.0	5.3	5.3	6.0	7.0	6.0	5.8
DLFPS-236/3556	5.0	6.0	6.0	4.3	5.7	6.7	5.7	5.7
JR-888	4.0	4.7	5.7	5.7	5.0	7.3	6.0	5.7
KARMA	5.0	6.0	5.7	5.0	5.0	7.0	5.7	5.7
NP-3	5.7	6.7	5.7	4.3	5.0	6.3	6.0	5.7

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDERT DROUGHT AT LOGAN, UT 1/
2021 DATA

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

NAME	TURFGRASS QUALITY				QUALITY RATINGS			MEAN
	SPRING GREENUP	MAY	JUN	JUL	AUG	SEP	OCT	
PHARAOH	4.7	4.7	5.3	5.0	6.0	7.0	6.0	5.7
ALLSTAR III	4.7	5.7	5.3	5.0	5.0	7.0	5.7	5.6
ASP0118GL (A-4G)	4.7	4.7	6.3	4.7	5.7	6.7	5.7	5.6
BELIZE 2 (GO-142)	4.7	6.3	5.7	4.7	4.3	6.7	5.7	5.6
DLFPS-238/3014	5.0	5.3	5.3	5.7	5.0	7.0	5.0	5.6
JR-747	3.0	4.3	5.0	5.0	6.0	7.0	6.0	5.6
BAR LP 6117	4.7	6.0	5.0	5.0	5.0	6.7	5.3	5.5
LPB-SD-105	3.7	4.7	4.7	4.3	6.0	7.3	6.0	5.5
BAR LP 6233	5.0	5.3	5.3	5.7	4.7	6.3	5.3	5.4
LPB-SD-101	3.7	4.7	5.0	5.0	5.0	7.0	5.7	5.4
LPB-SD-104	3.0	4.3	5.3	5.3	5.3	6.7	5.7	5.4
SAGUARO	4.7	4.7	4.7	5.3	5.0	7.0	5.7	5.4
BAR LP 6158	4.3	5.3	5.0	5.3	4.0	6.7	5.7	5.3
SHIELD (02BS4)	4.7	4.3	5.0	4.7	5.0	7.3	5.7	5.3
BAR LP 6159	3.3	5.3	4.7	4.3	5.0	6.3	5.0	5.1
EVOLVE	5.0	6.0	4.3	3.7	4.7	6.7	5.0	5.1
BAR LP 6162	3.7	5.7	5.3	4.0	3.7	6.0	5.3	5.0
BAR LP 6165	3.0	4.3	3.3	3.3	4.3	6.3	5.0	4.4
CAYMAN (GO-143)	4.7	6.5	6.0	4.5	3.3	4.3	3.7	3.8
LINN	2.7	2.0	2.7	4.3	2.3	4.7	4.3	3.4
LSD VALUE	1.1	1.6	2.4	5.6	1.7	1.8	1.0	1.1
C.V. (%)	13.1	14.5	16.0	20.5	15.8	10.7	8.6	9.9

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

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

TABLE 16. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

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

NAME	CT1	IA1	MN1	MO1	NE1	OR1	UT1	MEAN
FIREBALL (BWH)	8.3	6.3	5.3	7.3	7.7	7.3	8.7	7.3
FURLONG (LTP-FCB)	7.7	7.7	8.0	7.0	6.3	8.0	6.0	7.2
HATRICK (BSP-17)	8.7	7.3	4.3	7.0	7.3	7.7	8.3	7.2
RAD-PR 112	8.3	7.0	5.7	7.0	7.3	7.3	7.7	7.2
DLFPS-236/3546	7.0	7.3	7.3	6.7	6.3	8.0	7.3	7.1
MYSTIQUE (DLFPS-236/3547)	6.3	8.3	7.0	6.7	7.3	7.7	6.7	7.1
PEPPER II (RAD-PR 103)	7.7	7.0	5.7	6.7	7.7	7.7	7.7	7.1
PST-2FOXY	7.7	7.0	5.3	7.3	7.3	8.0	7.3	7.1
TEE-ME-UP (BSP-25)	9.0	6.7	4.0	7.7	7.3	7.0	7.7	7.0
PL2	8.0	7.0	7.0	7.0	6.7	7.3	6.0	7.0
PALMER SUPREME (PPG-PR 421)	7.3	8.0	5.3	7.0	7.3	7.3	6.7	7.0
PR-6-15	6.7	7.3	7.0	6.7	7.0	7.7	6.7	7.0
ASP0116EXT	8.3	6.7	4.3	7.0	7.0	7.3	8.0	7.0
FASTBALL 3GL (PPG-PR 329)	6.3	7.0	7.3	7.0	7.0	7.7	6.3	7.0
STARBRIGHT GLX (PST-2BDT)	7.0	7.0	5.7	7.0	7.3	7.7	7.0	7.0
PPG-PR 422	7.7	6.7	5.7	7.0	7.0	8.0	6.3	6.9
DLFPS-236/3552	7.3	6.7	4.7	7.3	7.7	7.7	7.0	6.9
NP-2	7.3	6.7	6.3	7.0	7.3	7.7	6.0	6.9
GREEN SUPREME+ (AMP-R1)	7.3	7.0	4.3	6.7	7.7	7.7	7.3	6.9
PPG-PR 372	6.7	7.3	5.0	7.0	7.0	8.0	7.0	6.9
SILVER SPORT (PST-2CRP)	7.0	6.7	5.7	7.3	7.0	7.3	6.7	6.8
SLIDER LS (PPG-PR 241)	7.7	7.0	5.0	7.3	7.0	7.3	6.3	6.8
ALLOY (RRT)	7.3	7.3	5.7	7.0	6.7	7.7	6.0	6.8
GATOR FORE (DLFPS-236/3544)	6.3	6.7	7.0	6.7	6.7	7.7	6.7	6.8
SUPERSTAR GL (PPG-PR 420)	7.7	6.7	5.0	7.3	7.3	7.7	6.0	6.8
ZOOM 2 (DLFPS-236/3545)	7.3	6.0	6.0	6.7	7.7	8.0	6.0	6.8
ASP0117 (A-PR15)	7.7	6.0	4.7	7.3	7.3	7.3	7.0	6.8
NEXUS GT (SNX)	7.7	6.3	5.3	6.7	7.0	7.3	7.0	6.8
SLUGGER 3GL (PPG-PR 343)	6.7	7.3	5.7	7.3	6.7	7.3	6.3	6.8
PPG-PR 371	7.0	7.3	5.3	7.0	7.0	7.7	6.0	6.8
UMPQUA	6.7	8.0	5.0	7.0	7.3	7.7	5.7	6.8
DERBY XTREME	7.7	6.7	4.3	6.7	7.0	8.0	6.7	6.7
DLFPS-236/3556	7.0	6.0	6.3	6.7	6.7	8.0	6.3	6.7
STELLAR 4GL (PPG-PR 424)	6.7	7.0	5.7	6.7	7.0	7.7	6.3	6.7
PARAGON 2 GLR (FP2)	7.0	6.0	6.3	6.7	6.7	7.7	6.7	6.7
PST-2MAY	6.3	6.7	5.3	7.0	7.3	7.7	6.7	6.7
DLFPS-236/3540	7.3	7.3	4.7	6.7	7.0	7.3	6.3	6.7
02BS1	7.0	6.7	5.3	6.3	7.3	8.0	6.0	6.7
FIESTA CINCO (DLFPS-236/3554)	6.3	7.7	4.3	7.3	7.0	7.3	6.7	6.7
GATOR CINCO (DLFPS-236/3548)	6.0	7.3	5.0	7.0	6.7	7.7	7.0	6.7
MAN O WAR	7.0	6.7	6.0	6.3	6.7	7.7	6.3	6.7
PPG-PR 367	7.3	6.0	6.3	7.0	6.3	8.0	5.7	6.7
PPG-PR 423	7.0	6.7	5.0	6.7	7.0	7.7	6.7	6.7
GRAY WOLF (PST-2GAL)	6.0	7.3	5.3	7.3	7.0	7.3	6.0	6.6
MRSL-PR15	7.7	7.0	4.0	6.7	7.0	7.0	7.0	6.6

TABLE 16.
(CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

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

NAME	CT1	IA1	MN1	MO1	NE1	OR1	UT1	MEAN
ALLSTAR FORE (DLFPS-236/3541)	7.0	7.7	4.3	6.3	7.3	7.7	6.0	6.6
ASP0118GL (A-4G)	7.0	6.3	4.7	7.0	7.0	7.7	6.7	6.6
APR2612	7.3	6.7	4.7	6.7	7.0	7.3	6.3	6.6
JR-123	6.3	6.3	5.3	7.0	7.3	7.3	6.3	6.6
PARADOX GLR (PPG-PR 331)	7.3	6.3	4.3	6.7	7.0	7.7	6.7	6.6
PHARAOH	6.3	6.3	5.7	7.0	6.7	7.7	6.3	6.6
SUNBURST (02BS2)	6.7	6.3	6.0	7.0	7.0	7.7	5.3	6.6
DLFPS-236/3553	6.3	7.0	5.3	7.0	7.0	7.7	5.7	6.6
SPIKE GLS (UF3)	7.0	6.3	6.0	6.3	7.0	7.7	5.7	6.6
SR 4700 (DLFPS-236/3543)	7.0	7.3	4.7	6.3	7.0	7.7	6.0	6.6
MRSL-PR16	6.7	6.0	4.7	7.0	7.0	7.3	7.0	6.5
ASP0218 (A-6D)	7.3	6.0	4.3	7.0	6.7	7.3	7.0	6.5
CPN	7.0	6.3	5.0	7.0	7.3	7.3	5.7	6.5
PPG-PR 360	6.7	6.3	5.3	6.3	7.0	7.7	6.3	6.5
CS-6	7.0	6.0	4.7	6.3	7.0	7.3	7.0	6.5
MIGHTIER (DLFPS-236/3542)	6.3	7.3	4.3	6.7	6.7	7.3	6.7	6.5
NP-3	6.7	6.3	5.3	6.7	7.0	7.3	6.0	6.5
PPG-PR 370	6.0	6.3	4.7	7.0	7.3	7.3	6.7	6.5
APPLE 3GL (PPG-PR 339)	6.3	6.0	4.7	6.7	7.3	7.7	6.3	6.4
APR2616	6.7	6.7	4.3	7.0	6.7	7.0	6.7	6.4
GRAND SLAM GLD	5.7	7.3	4.3	6.7	7.0	7.3	6.7	6.4
JR-197	6.3	6.0	5.3	6.7	7.0	7.7	6.0	6.4
SHIELD (02BS4)	6.0	6.7	6.0	6.7	6.7	7.0	6.0	6.4
DLFPS-236/3550	6.0	7.3	3.7	6.7	7.0	7.0	7.0	6.4
IVY (PST-2GTD)	6.7	6.3	4.7	7.0	6.7	7.0	6.3	6.4
SR 4650	6.0	6.7	5.0	6.3	6.7	7.7	6.3	6.4
INTENSE	7.0	5.7	5.3	6.3	7.0	7.3	6.0	6.4
021	6.7	6.7	5.0	7.3	6.7	6.7	5.3	6.3
SWIFT (PST-2A2)	5.7	6.7	5.0	6.0	7.0	7.3	6.7	6.3
CAYMAN (GO-143)	7.0	6.3	3.3	6.7	7.0	7.3	6.7	6.3
SIGNET	6.0	7.0	4.3	6.3	7.0	7.0	6.7	6.3
XCELERATOR	6.0	7.0	4.3	7.0	7.0	7.3	5.7	6.3
GRAY HAWK (PST-2FIND)	6.7	6.0	5.0	6.7	6.3	7.0	6.3	6.3
SEABISCUIT	6.3	6.0	5.0	6.7	6.3	7.7	6.0	6.3
APR3060	6.3	7.0	3.3	6.7	7.0	7.0	6.7	6.3
LPB-SD-102	6.3	6.7	4.0	5.7	7.0	7.0	7.0	6.2
BAR LP 6117	7.0	6.0	3.0	6.7	7.0	7.3	6.7	6.2
HOMERUN LS (PPG-PR 419)	5.7	6.3	5.0	7.0	7.0	7.0	5.7	6.2
KARMA	6.7	6.0	4.3	6.3	7.0	7.3	6.0	6.2
BELIZE 2 (GO-142)	6.7	6.7	3.0	6.3	7.0	7.0	6.7	6.2
GO-141	7.3	7.0	3.0	6.0	6.7	7.0	6.3	6.2
LPB-SD-103	6.0	6.7	3.7	6.0	7.0	6.7	7.3	6.2
OVERDRIVE 5G	5.0	6.7	4.7	6.7	7.0	7.7	5.7	6.2
CATALYST (023)	5.0	6.7	5.3	6.7	6.3	7.7	5.7	6.2
LPB-SD-104	6.7	6.7	3.7	6.0	6.3	7.0	7.0	6.2
BAR LP 6164	6.0	7.0	3.7	6.7	7.3	7.0	5.3	6.1

TABLE 16.
(CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

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

NAME	CT1	IA1	MN1	MO1	NE1	OR1	UT1	MEAN
PR-5-16	5.3	6.7	4.3	7.0	6.7	7.0	6.0	6.1
PST-2EGAD	5.7	6.7	4.7	6.3	7.0	7.0	5.7	6.1
EVOLVE	6.0	6.3	4.3	6.7	6.7	7.0	5.3	6.0
HELIOS (DLFPS-236/3538)	5.7	6.7	3.7	6.7	6.7	7.0	6.0	6.0
ALLSTAR III	6.0	5.7	3.7	6.7	7.0	7.0	6.0	6.0
BAR LP 6158	6.0	7.3	3.0	6.7	6.3	6.7	6.0	6.0
DLFPS-238/3014	5.7	7.3	3.7	7.0	6.3	6.7	5.3	6.0
PPG-PR 385	5.7	6.7	3.7	6.3	6.7	7.0	6.0	6.0
BAR LP 6131	6.0	6.0	3.3	7.0	7.0	7.0	5.3	6.0
BAR LP 6159	5.7	6.3	3.0	7.0	6.3	7.0	6.3	6.0
BAR LP 6233	5.7	7.0	3.7	7.0	6.0	7.0	5.0	5.9
BRIGHTSTAR SLT	5.3	6.7	3.0	7.0	7.3	6.7	5.3	5.9
LPB-SD-105	5.0	7.0	3.3	6.0	7.0	7.0	6.0	5.9
MENSA	5.3	6.0	3.3	6.3	6.3	7.0	6.7	5.9
SAGUARO	5.3	6.3	3.3	6.0	6.7	7.0	6.0	5.8
BAR LP 6162	5.7	6.3	2.3	6.7	7.0	7.0	5.7	5.8
JR-747	5.7	5.3	3.0	6.3	6.7	7.0	6.3	5.8
LPB-SD-101	4.3	7.0	3.0	6.0	6.7	7.0	6.3	5.8
SAVANT	5.0	6.3	3.3	6.3	6.0	6.7	6.7	5.8
JR-888	5.7	6.7	2.3	6.3	6.0	7.0	6.0	5.7
PST-2PDA	5.0	6.0	3.7	6.3	6.3	7.0	5.0	5.6
BAR LP 6165	4.0	6.3	1.0	5.7	5.0	6.7	5.0	4.8
LINN	3.0	4.7	1.7	4.3	6.0	6.0	2.7	4.0
LSD VALUE	1.4	1.2	1.1	0.9	0.9	0.8	1.0	0.4
C.V. (%)	13.1	11.2	14.6	8.0	8.0	6.7	9.3	10.0

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

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

TABLE 17.

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 2021 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/						
NAME	CT1	IA1	KS1	NE1	UT1	MEAN
GATOR FORE (DLFPS-236/3544)	7.0	7.7	7.0	7.0	4.3	6.6
PHARAOH	7.3	7.3	6.7	6.7	5.0	6.6
DLFPS-236/3552	6.3	6.7	7.0	7.3	5.3	6.5
FURLONG (LTP-FCB)	7.0	7.3	7.0	6.3	5.0	6.5
APPLE 3GL (PPG-PR 339)	6.3	6.7	7.0	7.0	5.3	6.5
FASTBALL 3GL (PPG-PR 329)	6.7	7.0	7.0	7.0	4.7	6.5
JR-197	6.7	7.3	7.0	7.0	4.3	6.5
NP-3	6.3	7.0	7.0	6.7	5.3	6.5
ASP0116EXT	6.7	7.3	7.0	6.3	4.7	6.4
DLFPS-236/3540	6.7	7.0	7.0	7.0	4.3	6.4
ZOOM 2 (DLFPS-236/3545)	6.7	6.7	7.0	6.7	5.0	6.4
INTENSE	6.3	6.7	7.0	7.0	4.7	6.3
NP-2	6.0	6.7	7.0	6.7	5.3	6.3
PL2	6.0	6.7	7.0	6.7	5.3	6.3
PPG-PR 422	6.7	7.0	7.0	6.7	4.3	6.3
PPG-PR 360	5.3	7.7	7.0	6.3	5.3	6.3
IVY (PST-2GTD)	5.7	7.3	7.0	6.7	4.7	6.3
PARAGON 2 GLR (FP2)	6.3	6.7	6.7	7.0	4.7	6.3
PPG-PR 423	6.3	6.7	7.0	6.7	4.7	6.3
SEABISCUIT	6.7	7.3	6.7	6.0	4.7	6.3
STELLAR 4GL (PPG-PR 424)	6.3	6.7	7.0	6.7	4.7	6.3
SUPERSTAR GL (PPG-PR 420)	6.0	6.7	7.0	6.7	5.0	6.3
02BS1	6.7	6.3	7.0	7.0	4.3	6.3
SPIKE GLS (UF3)	6.3	6.0	7.0	6.7	5.3	6.3
ALLOY (RRT)	7.0	5.7	7.0	6.7	4.7	6.2
PPG-PR 372	6.0	6.7	6.7	7.0	4.7	6.2
ASP0218 (A-6D)	5.7	7.0	7.0	6.3	5.0	6.2
CPN	6.3	7.3	6.7	7.0	3.7	6.2
DLFPS-236/3556	6.3	7.0	6.7	6.3	4.7	6.2
MYSTIQUE (DLFPS-236/3547)	6.3	7.0	6.7	6.7	4.3	6.2
PARADOX GLR (PPG-PR 331)	6.0	7.0	7.0	6.3	4.7	6.2
PPG-PR 367	7.0	6.7	7.0	6.3	4.0	6.2
PALMER SUPREME (PPG-PR 421)	5.0	7.0	7.0	7.0	5.0	6.2
SLIDER LS (PPG-PR 241)	6.0	7.0	7.0	6.7	4.3	6.2
ASP0117 (A-PR15)	5.3	6.3	7.0	6.3	6.0	6.2
BAR LP 6164	6.7	6.7	6.3	7.0	4.0	6.1
GRAY WOLF (PST-2GAL)	6.0	6.7	7.0	6.7	4.3	6.1
MRS1-PR15	5.7	7.3	7.0	6.7	4.0	6.1
OVERDRIVE 5G	6.0	7.0	6.7	6.7	4.3	6.1
PPG-PR 370	5.3	7.0	7.0	6.7	4.7	6.1
PST-2PDA	6.7	6.3	7.0	6.7	4.0	6.1
ASP0118GL (A-4G)	5.3	7.0	7.0	7.0	4.3	6.1
HOMERUN LS (PPG-PR 419)	6.3	6.3	7.0	6.7	4.3	6.1
SILVER SPORT (PST-2CRP)	6.3	6.3	7.0	6.7	4.3	6.1
ALLSTAR FORE (DLFPS-236/3541)	5.3	6.7	7.0	6.7	4.7	6.1

TABLE 17.
(CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

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

NAME	CT1	IA1	KS1	NE1	UT1	MEAN
MAN O WAR	6.0	7.7	6.7	6.3	3.7	6.1
PPG-PR 371	5.3	6.7	7.0	6.7	4.7	6.1
SIGNET	7.0	5.7	7.0	6.7	4.0	6.1
SLUGGER 3GL (PPG-PR 343)	5.3	6.7	7.0	6.0	5.3	6.1
SR 4650	6.3	6.3	6.7	6.3	4.7	6.1
DLFPS-236/3553	6.3	6.3	7.0	6.3	4.3	6.1
PST-2EGAD	5.7	7.0	7.0	6.7	3.7	6.0
SR 4700 (DLFPS-236/3543)	5.7	6.0	7.0	6.7	4.7	6.0
BAR LP 6233	5.3	6.7	7.0	7.0	4.0	6.0
BRIGHTSTAR SLT	5.3	6.7	7.0	7.0	4.0	6.0
DLFPS-236/3546	5.7	6.7	7.0	6.3	4.3	6.0
MIGHTIER (DLFPS-236/3542)	5.0	6.3	7.0	6.7	5.0	6.0
PR-5-16	5.7	5.7	7.0	6.3	5.3	6.0
SUNBURST (02BS2)	5.7	6.3	7.0	6.3	4.7	6.0
XCELERATOR	5.3	5.3	6.7	7.0	5.7	6.0
STARBRIGHT GLX (PST-2BDT)	5.3	6.3	7.0	7.3	4.0	6.0
021	5.7	5.3	7.0	6.7	5.0	5.9
APR2616	5.7	6.7	6.7	6.7	4.0	5.9
APR3060	5.0	6.7	7.0	6.7	4.3	5.9
DLFPS-236/3550	5.7	6.0	7.0	6.3	4.7	5.9
GRAND SLAM GLD	5.7	7.0	6.7	6.3	4.0	5.9
HATRICK (BSP-17)	5.7	6.0	7.0	6.7	4.3	5.9
PST-2FOXY	6.0	7.0	6.7	6.3	3.7	5.9
SHIELD (02BS4)	6.0	6.0	6.7	6.7	4.3	5.9
BAR LP 6159	6.0	6.3	6.7	6.3	4.3	5.9
GRAY HAWK (PST-2FIND)	5.7	7.0	6.3	6.3	4.3	5.9
CATALYST (023)	6.0	6.0	6.7	6.3	4.3	5.9
FIREBALL (BWH)	5.3	7.0	7.0	6.7	3.3	5.9
GREEN SUPREME+ (AMP-R1)	5.7	6.7	6.7	6.0	4.3	5.9
RAD-PR 112	6.3	6.3	7.0	6.0	3.7	5.9
BAR LP 6117	5.7	6.3	7.0	6.3	3.7	5.8
BAR LP 6158	5.3	6.0	7.0	6.0	4.7	5.8
CS-6	5.3	6.7	7.0	5.7	4.3	5.8
DERBY XTREME	5.3	7.0	6.7	6.3	3.7	5.8
NEXUS GT (SNX)	5.7	6.7	6.7	6.3	3.7	5.8
PR-6-15	5.3	6.3	6.7	6.3	4.3	5.8
KARMA	5.3	7.0	.	6.3	4.3	5.8
PST-2MAY	6.0	6.3	.	6.3	4.3	5.8
ALLSTAR III	5.7	4.7	7.0	6.7	4.7	5.7
APR2612	4.7	6.7	7.0	6.3	4.0	5.7
BAR LP 6131	5.0	6.0	6.7	7.0	4.0	5.7
BELIZE 2 (GO-142)	5.3	6.7	7.0	6.7	3.0	5.7
GO-141	5.7	6.0	6.3	6.7	4.0	5.7
PEPPER II (RAD-PR 103)	5.7	6.0	7.0	6.3	3.7	5.7
PPG-PR 385	5.7	6.7	6.7	6.0	3.7	5.7
SWIFT (PST-2A2)	5.7	6.3	6.7	5.7	4.3	5.7

TABLE 17.
(CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

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

NAME	CT1	IA1	KS1	NE1	UT1	MEAN
DLFPS-238/3014	5.3	6.3	6.7	6.0	4.3	5.7
HELIOS (DLFPS-236/3538)	5.3	7.0	6.7	6.3	3.3	5.7
TEE-ME-UP (BSP-25)	5.3	6.3	6.7	6.3	4.0	5.7
UMPQUA	5.0	7.0	6.0	6.3	4.3	5.7
BAR LP 6162	4.7	5.3	7.0	6.7	4.7	5.7
FIESTA CINCO (DLFPS-236/3554)	5.0	5.3	7.0	6.7	4.3	5.7
GATOR CINCO (DLFPS-236/3548)	4.7	6.3	7.0	6.0	4.3	5.7
JR-123	6.0	5.3	7.0	6.7	3.3	5.7
MRS�-PR16	6.0	5.3	6.3	6.7	4.0	5.7
CAYMAN (GO-143)	4.7	5.7	7.0	6.7	4.0	5.6
EVOLVE	5.7	5.7	6.3	6.7	3.7	5.6
LPB-SD-103	5.0	6.0	6.3	6.7	4.0	5.6
JR-888	5.0	6.0	6.7	6.7	3.3	5.5
MENSA	5.3	6.0	7.0	6.3	3.0	5.5
SAGUARO	4.3	6.0	6.7	6.7	3.7	5.5
LPB-SD-101	4.7	5.7	6.7	6.7	3.3	5.4
BAR LP 6165	6.0	7.0	5.0	5.7	3.0	5.3
LPB-SD-102	5.0	5.7	6.3	6.3	2.7	5.2
LPB-SD-104	4.7	5.0	6.7	6.3	3.3	5.2
JR-747	4.0	5.3	7.0	6.3	3.0	5.1
SAVANT	4.7	4.7	6.3	6.3	3.3	5.1
LPB-SD-105	4.0	5.3	6.3	6.3	2.7	4.9
LINN	5.3	5.0	5.0	5.7	2.7	4.7
LSD VALUE	1.3	1.2	0.6	0.9	1.4	0.5
C.V. (%)	13.5	12.0	5.8	8.3	20.5	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 18.

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/			
NAME	MO1	VA1	MEAN
PPG-PR 371	97.0	99.0	98.0
PST-2FOXY	97.0	99.0	98.0
PPG-PR 372	96.3	99.0	97.7
PALMER SUPREME (PPG-PR 421)	96.0	99.0	97.5
PPG-PR 370	95.7	99.0	97.3
ALLOY (RRT)	95.3	99.0	97.2
BAR LP 6117	95.3	99.0	97.2
PEPPER II (RAD-PR 103)	95.0	99.0	97.0
ASP0218 (A-6D)	94.7	99.0	96.8
FURLONG (LTP-FCB)	94.7	99.0	96.8
PST-2MAY	94.3	99.0	96.7
CATALYST (023)	94.0	99.0	96.5
DLFPS-236/3552	94.0	99.0	96.5
FIESTA CINCO (DLFPS-236/3554)	94.0	99.0	96.5
021	93.7	99.0	96.3
CPN	93.7	99.0	96.3
SHIELD (02BS4)	93.7	99.0	96.3
SLUGGER 3GL (PPG-PR 343)	93.7	99.0	96.3
XCELERATOR	93.7	99.0	96.3
BAR LP 6158	93.3	99.0	96.2
DLFPS-236/3546	96.3	96.0	96.2
PARAGON 2 GLR (FP2)	93.3	99.0	96.2
APR2616	93.0	99.0	96.0
HELIOS (DLFPS-236/3538)	93.0	99.0	96.0
PL2	93.0	99.0	96.0
PPG-PR 385	93.0	99.0	96.0
SILVER SPORT (PST-2CRP)	93.0	99.0	96.0
SLIDER LS (PPG-PR 241)	93.0	99.0	96.0
ASP0118GL (A-4G)	92.3	99.0	95.7
BAR LP 6164	92.3	99.0	95.7
BAR LP 6233	92.3	99.0	95.7
DLFPS-238/3014	92.3	99.0	95.7
HOMERUN LS (PPG-PR 419)	92.3	99.0	95.7
MYSTIQUE (DLFPS-236/3547)	92.3	99.0	95.7
PPG-PR 422	92.3	99.0	95.7
APR3060	92.0	99.0	95.5
NP-2	92.0	99.0	95.5
PR-5-16	92.0	99.0	95.5
DLFPS-236/3553	91.7	99.0	95.3
FASTBALL 3GL (PPG-PR 329)	94.7	96.0	95.3
JR-888	91.7	99.0	95.3
RAD-PR 112	91.7	99.0	95.3
SEABISCUIT	94.7	96.0	95.3
BAR LP 6131	91.3	99.0	95.2
GRAND SLAM GLD	91.3	99.0	95.2
GRAY WOLF (PST-2GAL)	91.3	99.0	95.2

TABLE 18.
(CONT'D)

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MO1	VA1	MEAN
HATRICK (BSP-17)	91.3	99.0	95.2
JR-197	91.3	99.0	95.2
NP-3	91.3	99.0	95.2
APPLE 3GL (PPG-PR 339)	94.0	96.0	95.0
BAR LP 6162	90.7	99.0	94.8
GATOR FORE (DLFPS-236/3544)	90.7	99.0	94.8
PHARAOH	90.7	99.0	94.8
PST-2EGAD	90.7	99.0	94.8
STELLAR 4GL (PPG-PR 424)	90.7	99.0	94.8
ZOOM 2 (DLFPS-236/3545)	90.7	99.0	94.8
GATOR CINCO (DLFPS-236/3548)	93.3	96.0	94.7
ASP0117 (A-PR15)	90.0	99.0	94.5
DLFPS-236/3550	89.7	99.0	94.3
DLFPS-236/3556	89.7	99.0	94.3
EVOLVE	89.7	99.0	94.3
PPG-PR 360	89.7	99.0	94.3
SUNBURST (02BS2)	92.3	96.0	94.2
BAR LP 6159	89.0	99.0	94.0
PPG-PR 423	92.0	96.0	94.0
DLFPS-236/3540	88.3	99.0	93.7
JR-123	91.3	96.0	93.7
MRSL-PR16	88.3	99.0	93.7
NEXUS GT (SNX)	88.3	99.0	93.7
IVY (PST-2GTD)	87.7	99.0	93.3
GREEN SUPREME+ (AMP-R1)	87.3	99.0	93.2
SPIKE GLS (UF3)	87.3	99.0	93.2
STARBRIGHT GLX (PST-2BDT)	90.0	96.0	93.0
02BS1	86.7	99.0	92.8
CAYMAN (GO-143)	89.7	96.0	92.8
DERBY XTREME	86.7	99.0	92.8
SIGNET	86.7	99.0	92.8
BAR LP 6165	85.7	99.0	92.3
MRSL-PR15	85.7	99.0	92.3
PARADOX GLR (PPG-PR 331)	85.7	99.0	92.3
TEE-ME-UP (BSP-25)	85.7	99.0	92.3
GRAY HAWK (PST-2FIND)	86.7	97.7	92.2
MIGHTIER (DLFPS-236/3542)	89.7	94.3	92.0
SAGUARO	85.0	99.0	92.0
SUPERSTAR GL (PPG-PR 420)	93.0	91.0	92.0
ASP0116EXT	85.7	97.7	91.7
PR-6-15	84.0	99.0	91.5
PST-2PDA	83.3	99.0	91.2
SAVANT	85.7	96.0	90.8
FIREBALL (BWH)	88.3	93.0	90.7
SR 4650	81.7	99.0	90.3
SR 4700 (DLFPS-236/3543)	86.3	94.3	90.3

TABLE 18.
(CONT'D)

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/			
NAME	MO1	VA1	MEAN
ALLSTAR FORE (DLFPS-236/3541)	81.3	99.0	90.2
CS-6	80.7	99.0	89.8
KARMA	80.7	99.0	89.8
JR-747	80.0	99.0	89.5
APR2612	82.3	96.0	89.2
OVERDRIVE 5G	85.0	92.7	88.8
MENSA	83.3	93.0	88.2
ALLSTAR III	76.7	99.0	87.8
UMPQUA	75.7	99.0	87.3
SWIFT (PST-2A2)	75.0	99.0	87.0
LPB-SD-105	79.0	92.7	85.8
GO-141	71.7	99.0	85.3
BRIGHTSTAR SLT	90.7	79.7	85.2
BELIZE 2 (GO-142)	79.7	89.3	84.5
LPB-SD-102	70.0	99.0	84.5
LPB-SD-101	75.0	92.7	83.8
MAN O WAR	68.3	97.7	83.0
INTENSE	66.7	97.7	82.2
PPG-PR 367	62.0	99.0	80.5
LPB-SD-104	63.3	92.7	78.0
LPB-SD-103	53.3	94.7	74.0
LINN	66.7	40.0	53.3
LSD VALUE	15.5	9.1	9.0
C.V. (%)	10.9	5.8	8.5

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

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

TABLE 19.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/			
NAME	MO1	VA1	MEAN
DLFPS-236/3546	94.0	99.0	96.5
XCELERATOR	94.0	99.0	96.5
DLFPS-236/3552	93.0	99.0	96.0
DLFPS-236/3553	91.7	99.0	95.3
GATOR CINCO (DLFPS-236/3548)	91.7	99.0	95.3
PPG-PR 372	91.3	99.0	95.2
APPLE 3GL (PPG-PR 339)	90.7	99.0	94.8
FIESTA CINCO (DLFPS-236/3554)	90.7	99.0	94.8
HELIOS (DLFPS-236/3538)	90.7	99.0	94.8
STELLAR 4GL (PPG-PR 424)	90.7	99.0	94.8
APR3060	90.0	99.0	94.5
BAR LP 6233	90.0	99.0	94.5
GATOR FORE (DLFPS-236/3544)	90.0	99.0	94.5
SEABISCUIT	90.0	99.0	94.5
PST-2MAY	89.7	99.0	94.3
PPG-PR 370	89.0	99.0	94.0
PPG-PR 422	89.0	99.0	94.0
PR-5-16	89.0	99.0	94.0
HOMERUN LS (PPG-PR 419)	88.3	99.0	93.7
PST-2FOXY	88.3	99.0	93.7
SUPERSTAR GL (PPG-PR 420)	88.3	99.0	93.7
ASPO218 (A-6D)	88.0	99.0	93.5
GRAY WOLF (PST-2GAL)	88.0	99.0	93.5
SUNBURST (02BS2)	88.0	99.0	93.5
BAR LP 6158	87.3	99.0	93.2
JR-123	87.3	99.0	93.2
MYSTIQUE (DLFPS-236/3547)	87.3	99.0	93.2
PHARAOH	87.3	99.0	93.2
PPG-PR 385	87.3	99.0	93.2
PPG-PR 423	87.3	99.0	93.2
BAR LP 6117	86.7	99.0	92.8
DLFPS-238/3014	86.7	99.0	92.8
HATRICK (BSP-17)	86.7	99.0	92.8
PARAGON 2 GLR (FP2)	86.7	99.0	92.8
PPG-PR 367	86.7	99.0	92.8
PPG-PR 371	86.7	99.0	92.8
SLIDER LS (PPG-PR 241)	86.7	99.0	92.8
ASPO118GL (A-4G)	86.3	99.0	92.7
BAR LP 6164	86.3	99.0	92.7
PL2	86.3	99.0	92.7
PALMER SUPREME (PPG-PR 421)	86.3	99.0	92.7
PEPPER II (RAD-PR 103)	85.7	99.0	92.3
CATALYST (023)	85.0	99.0	92.0
GRAY HAWK (PST-2FIND)	85.0	99.0	92.0
SHIELD (02BS4)	85.0	99.0	92.0
FURLONG (LTP-FCB)	84.7	99.0	91.8

TABLE 19.
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MO1	VA1	MEAN
MRS�-PR15	84.0	99.0	91.5
SILVER SPORT (PST-2CRP)	84.0	99.0	91.5
IVY (PST-2GTD)	83.3	99.0	91.2
PST-2EGAD	83.3	99.0	91.2
ASP0117 (A-PR15)	82.3	99.0	90.7
SLUGGER 3GL (PPG-PR 343)	82.3	99.0	90.7
021	81.7	99.0	90.3
02BS1	81.7	99.0	90.3
ALLOY (RRT)	81.7	99.0	90.3
APR2616	81.7	99.0	90.3
BAR LP 6159	81.7	99.0	90.3
CPN	81.7	99.0	90.3
JR-888	81.7	99.0	90.3
SIGNET	81.7	99.0	90.3
SR 4700 (DLFPS-236/3543)	81.7	99.0	90.3
NP-3	80.7	99.0	89.8
BAR LP 6131	80.0	99.0	89.5
FIREBALL (BWH)	80.0	99.0	89.5
JR-197	80.0	99.0	89.5
MIGHTIER (DLFPS-236/3542)	80.0	99.0	89.5
PPG-PR 360	80.0	99.0	89.5
PST-2PDA	80.0	99.0	89.5
FASTBALL 3GL (PPG-PR 329)	79.0	99.0	89.0
DLFPS-236/3556	78.3	99.0	88.7
GREEN SUPREME+ (AMP-R1)	78.3	99.0	88.7
OVERDRIVE 5G	78.3	99.0	88.7
APR2612	77.3	99.0	88.2
CAYMAN (GO-143)	77.3	99.0	88.2
DERBY XTREME	76.7	99.0	87.8
DLFPS-236/3550	76.7	99.0	87.8
PR-6-15	76.7	99.0	87.8
RAD-PR 112	76.7	99.0	87.8
TEE-ME-UP (BSP-25)	76.7	99.0	87.8
NP-2	75.7	99.0	87.3
ASP0116EXT	75.0	99.0	87.0
BAR LP 6165	75.0	99.0	87.0
GRAND SLAM GLD	75.0	99.0	87.0
MENSA	75.0	99.0	87.0
MRS�-PR16	75.0	99.0	87.0
NEXUS GT (SNX)	75.0	99.0	87.0
STARBRIGHT GLX (PST-2BDT)	75.0	99.0	87.0
EVOLVE	73.3	99.0	86.2
SPIKE GLS (UF3)	73.3	99.0	86.2
ZOOM 2 (DLFPS-236/3545)	73.3	99.0	86.2
ALLSTAR FORE (DLFPS-236/3541)	72.3	99.0	85.7
BAR LP 6162	71.7	99.0	85.3

TABLE 19.
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MO1	VA1	MEAN
CS-6	71.7	99.0	85.3
DLFPS-236/3540	71.7	99.0	85.3
PARADOX GLR (PPG-PR 331)	71.7	99.0	85.3
UMPQUA	71.7	99.0	85.3
KARMA	70.0	99.0	84.5
SAVANT	70.0	99.0	84.5
BELIZE 2 (GO-142)	68.3	99.0	83.7
SWIFT (PST-2A2)	68.3	99.0	83.7
ALLSTAR III	66.7	99.0	82.8
SAGUARO	66.7	99.0	82.8
SR 4650	66.7	99.0	82.8
MAN O WAR	65.7	99.0	82.3
LPB-SD-102	63.3	99.0	81.2
LPB-SD-104	61.7	99.0	80.3
GO-141	60.0	99.0	79.5
LPB-SD-101	55.0	99.0	77.0
INTENSE	51.7	99.0	75.3
JR-747	51.7	99.0	75.3
LPB-SD-105	51.7	99.0	75.3
LPB-SD-103	50.0	99.0	74.5
BRIGHTSTAR SLT	68.3	79.7	74.0
LINN	45.0	33.3	39.2
LSD VALUE	17.2	7.8	9.5
C.V. (%)	13.5	4.9	9.3

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 20.

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

		RED THREAD RATINGS 1-9; 9=NO DISEASE 2/			
NAME	MO1	NAME	MO1	NAME	MO1
ALLSTAR FORE (DLFPS-236/3541)	9.0	TEE-ME-UP (BSP-25)	8.7	SPIKE GLS (UF3)	8.3
APPLE 3GL (PPG-PR 339)	9.0	XCELERATOR	8.7	SUNBURST (02BS2)	8.3
APR2616	9.0	021	8.3	SUPERSTAR GL (PPG-PR 420)	8.3
BAR LP 6164	9.0	02BS1	8.3	UMPQUA	8.3
FURLONG (LTP-FCB)	9.0	ALLSTAR III	8.3	BAR LP 6158	8.0
HELIOS (DLFPS-236/3538)	9.0	APR3060	8.3	BAR LP 6165	8.0
PPG-PR 372	9.0	ASP0116EXT	8.3	BAR LP 6233	8.0
PST-2FOXY	9.0	BAR LP 6159	8.3	DERBY XTREME	8.0
SLUGGER 3GL (PPG-PR 343)	9.0	BAR LP 6162	8.3	GATOR FORE (DLFPS-236/3544)	8.0
ALLOY (RRT)	8.7	BELIZE 2 (GO-142)	8.3	INTENSE	8.0
APR2612	8.7	CPN	8.3	JR-747	8.0
ASP0117 (A-PR15)	8.7	DLFPS-236/3552	8.3	KARMA	8.0
ASP0118GL (A-4G)	8.7	DLFPS-236/3556	8.3	LPB-SD-102	8.0
ASP0218 (A-6D)	8.7	EVOLVE	8.3	LPB-SD-105	8.0
BAR LP 6117	8.7	FASTBALL 3GL (PPG-PR 329)	8.3	MENSA	8.0
BAR LP 6131	8.7	FIREBALL (BWH)	8.3	MIGHTIER (DLFPS-236/3542)	8.0
CAYMAN (GO-143)	8.7	GATOR CINCO (DLFPS-236/3548)	8.3	MRSI-PR15	8.0
CS-6	8.7	GRAY WOLF (PST-2GAL)	8.3	NEXUS GT (SNX)	8.0
DLFPS-236/3546	8.7	IVY (PST-2GTD)	8.3	PR-5-16	8.0
DLFPS-236/3550	8.7	JR-197	8.3	PST-2EGAD	8.0
DLFPS-236/3553	8.7	LPB-SD-101	8.3	PST-2PDA	8.0
DLFPS-238/3014	8.7	LPB-SD-103	8.3	SAGUARO	8.0
FIESTA CINCO (DLFPS-236/3554)	8.7	LPB-SD-104	8.3	SIGNET	8.0
GO-141	8.7	MRSI-PR16	8.3	STARBRIGHT GLX (PST-2BDT)	8.0
GRAND SLAM GLD	8.7	NP-2	8.3	ZOOM 2 (DLFPS-236/3545)	8.0
GRAY HAWK (PST-2FIND)	8.7	NP-3	8.3	BRIGHTSTAR SLT	7.7
GREEN SUPREME+ (AMP-R1)	8.7	OVERDRIVE 5G	8.3	HOMERUN LS (PPG-PR 419)	7.7
HATRICK (BSP-17)	8.7	PL2	8.3	JR-888	7.7
JR-123	8.7	PPG-PR 360	8.3	PHARAOH	7.7
MAN O WAR	8.7	PPG-PR 367	8.3	STELLAR 4GL (PPG-PR 424)	7.7
MYSTIQUE (DLFPS-236/3547)	8.7	PPG-PR 385	8.3	CATALYST (023)	7.3
PARADOX GLR (PPG-PR 331)	8.7	PALMER SUPREME (PPG-PR 421)	8.3	DLFPS-236/3540	7.3
PARAGON 2 GLR (FP2)	8.7	PPG-PR 422	8.3	LINN	7.3
PEPPER II (RAD-PR 103)	8.7	PR-6-15	8.3	SR 4650	7.3
PPG-PR 370	8.7	PST-2MAY	8.3		
PPG-PR 371	8.7	RAD-PR 112	8.3	LSD VALUE	1.1
PPG-PR 423	8.7	SAVANT	8.3	C.V. (%)	7.9
SHIELD (02BS4)	8.7	SEABISCUIT	8.3		
SR 4700 (DLFPS-236/3543)	8.7	SILVER SPORT (PST-2CRP)	8.3		
SWIFT (PST-2A2)	8.7	SLIDER LS (PPG-PR 241)	8.3		

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

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

TABLE 21.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

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

NAME	MO1	NAME	MO1	NAME	MO1
FURLONG (LTP-FCB)	9.0	PPG-PR 423	8.0	APR2612	7.3
ALLSTAR FORE (DLFPS-236/3541)	8.7	PR-5-16	8.0	BAR LP 6117	7.3
MYSTIQUE (DLFPS-236/3547)	8.7	SHIELD (02BS4)	8.0	BAR LP 6162	7.3
SPIKE GLS (UF3)	8.7	SLIDER LS (PPG-PR 241)	8.0	BAR LP 6164	7.3
ASP0117 (A-PR15)	8.3	SLUGGER 3GL (PPG-PR 343)	8.0	BRIGHTSTAR SLT	7.3
DLFPS-236/3546	8.3	SR 4700 (DLFPS-236/3543)	8.0	CPN	7.3
OVERDRIVE 5G	8.3	STARBRIGHT GLX (PST-2BDT)	8.0	DLFPS-236/3550	7.3
PARADOX GLR (PPG-PR 331)	8.3	SUPERSTAR GL (PPG-PR 420)	8.0	DLFPS-236/3556	7.3
PPG-PR 371	8.3	SWIFT (PST-2A2)	8.0	FIREBALL (BWH)	7.3
PPG-PR 422	8.3	APR3060	7.7	INTENSE	7.3
PR-6-15	8.3	ASP0116EXT	7.7	KARMA	7.3
PST-2FOXY	8.3	ASP0118GL (A-4G)	7.7	SAVANT	7.3
PST-2MAY	8.3	ASPO218 (A-6D)	7.7	SEABISCUIT	7.3
ALLOY (RRT)	8.0	BAR LP 6165	7.7	STELLAR 4GL (PPG-PR 424)	7.3
APPLE 3GL (PPG-PR 339)	8.0	DLFPS-238/3014	7.7	UMPQUA	7.3
APR2616	8.0	GATOR CINCO (DLFPS-236/3548)	7.7	ZOOM 2 (DLFPS-236/3545)	7.3
CAYMAN (GO-143)	8.0	GATOR FORE (DLFPS-236/3544)	7.7	BAR LP 6158	7.0
CS-6	8.0	GO-141	7.7	BAR LP 6233	7.0
DERBY XTREME	8.0	GRAY WOLF (PST-2GAL)	7.7	CATALYST (023)	7.0
DLFPS-236/3552	8.0	HELIOS (DLFPS-236/3538)	7.7	DLFPS-236/3540	7.0
DLFPS-236/3553	8.0	JR-123	7.7	GREEN SUPREME+ (AMP-R1)	7.0
FASTBALL 3GL (PPG-PR 329)	8.0	JR-197	7.7	HOMERUN LS (PPG-PR 419)	7.0
FIESTA CINCO (DLFPS-236/3554)	8.0	LPB-SD-101	7.7	JR-888	7.0
GRAND SLAM GLD	8.0	LPB-SD-102	7.7	PPG-PR 385	7.0
GRAY HAWK (PST-2FIND)	8.0	MIGHTIER (DLFPS-236/3542)	7.7	SIGNET	7.0
HATRICK (BSP-17)	8.0	MRSL-PR15	7.7	SR 4650	7.0
IVY (PST-2GTD)	8.0	MRSL-PR16	7.7	BAR LP 6131	6.7
LPB-SD-103	8.0	NEXUS GT (SNX)	7.7	BELIZE 2 (GO-142)	6.7
LPB-SD-104	8.0	PHARAOH	7.7	JR-747	6.7
LPB-SD-105	8.0	PL2	7.7	MENSA	6.7
MAN O WAR	8.0	PPG-PR 360	7.7	PST-2EGAD	6.7
NP-2	8.0	RAD-PR 112	7.7	BAR LP 6159	6.3
NP-3	8.0	SILVER SPORT (PST-2CRP)	7.7	EVOLVE	6.3
PARAGON 2 GLR (FP2)	8.0	SUNBURST (02BS2)	7.7	PST-2PDA	6.3
PEPPER II (RAD-PR 103)	8.0	TEE-ME-UP (BSP-25)	7.7	SAGUARO	6.3
PPG-PR 367	8.0	XCELERATOR	7.7	LINN	5.7
PPG-PR 370	8.0	021	7.3		
PPG-PR 372	8.0	02BS1	7.3	LSD VALUE	1.0
PALMER SUPREME (PPG-PR 421)	8.0	ALLSTAR III	7.3	C.V. (%)	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.

CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2021 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/					
NAME	MN1	NAME	MN1	NAME	MN1
FURLONG (LTP-FCB)	7.7	02BS1	5.3	PPG-PR 423	4.3
GATOR FORE (DLFPS-236/3544)	7.7	ALLOY (RRT)	5.3	SAVANT	4.3
STELLAR 4GL (PPG-PR 424)	7.7	DLFPS-238/3014	5.3	APR2612	4.0
DLFPS-236/3546	7.3	GATOR CINCO (DLFPS-236/3548)	5.3	BAR LP 6159	4.0
FASTBALL 3GL (PPG-PR 329)	7.3	INTENSE	5.3	BAR LP 6164	4.0
MYSTIQUE (DLFPS-236/3547)	7.3	LPB-SD-102	5.3	DERBY XTREME	4.0
NP-2	7.3	PPG-PR 371	5.3	FIREBALL (BWH)	4.0
PPG-PR 367	7.3	PPG-PR 385	5.3	HATRICK (BSP-17)	4.0
DLFPS-236/3553	7.0	RAD-PR 112	5.3	LINN	4.0
DLFPS-236/3556	7.0	SIGNET	5.3	LPB-SD-105	4.0
PARAGON 2 GLR (FP2)	7.0	SUPERSTAR GL (PPG-PR 420)	5.3	MRS-PR16	4.0
PL2	7.0	XCELERATOR	5.3	PST-2EGAD	4.0
SHIELD (02BS4)	7.0	APPLE 3GL (PPG-PR 339)	5.0	PST-2FOXY	4.0
SPIKE GLS (UF3)	7.0	ASP0117 (A-PR15)	5.0	ALLSTAR FORE (DLFPS-236/3541)	3.7
ZOOM 2 (DLFPS-236/3545)	7.0	ASP0118GL (A-4G)	5.0	ASP0218 (A-6D)	3.7
SILVER SPORT (PST-2CRP)	6.7	BAR LP 6233	5.0	JR-888	3.7
SLUGGER 3GL (PPG-PR 343)	6.7	GREEN SUPREME+ (AMP-R1)	5.0	MENSA	3.7
SUNBURST (02BS2)	6.7	LPB-SD-103	5.0	MRS-PR15	3.7
JR-123	6.3	OVERDRIVE 5G	5.0	TEE-ME-UP (BSP-25)	3.7
MAN O WAR	6.3	PARADOX GLR (PPG-PR 331)	5.0	APR2616	3.3
PPG-PR 360	6.3	PPG-PR 370	5.0	BAR LP 6131	3.3
PR-6-15	6.3	ASP0116EXT	4.7	DLFPS-236/3540	3.3
CPN	6.0	BAR LP 6158	4.7	LPB-SD-104	3.3
HOMERUN LS (PPG-PR 419)	6.0	FIESTA CINCO (DLFPS-236/3554)	4.7	PEPPER II (RAD-PR 103)	3.3
JR-197	6.0	GRAND SLAM GLD	4.7	APR3060	3.0
NP-3	6.0	KARMA	4.7	BAR LP 6165	3.0
PPG-PR 422	6.0	MIGHTIER (DLFPS-236/3542)	4.7	BRIGHTSTAR SLT	3.0
UMPQUA	6.0	NEXUS GT (SNX)	4.7	DLFPS-236/3550	3.0
CATALYST (023)	5.7	PPG-PR 372	4.7	SAGUARO	3.0
GRAY HAWK (PST-2FIND)	5.7	PR-5-16	4.7	BELIZE 2 (GO-142)	2.7
GRAY WOLF (PST-2GAL)	5.7	PST-2PDA	4.7	CAYMAN (GO-143)	2.7
IVY (PST-2GTD)	5.7	SEABISCUIT	4.7	GO-141	2.7
PHARAOH	5.7	SR 4650	4.7	JR-747	2.7
PALMER SUPREME (PPG-PR 421)	5.7	SR 4700 (DLFPS-236/3543)	4.7	BAR LP 6117	2.3
PST-2MAY	5.7	ALLSTAR III	4.3	LPB-SD-101	2.3
SLIDER LS (PPG-PR 241)	5.7	CS-6	4.3	BAR LP 6162	1.7
STARBRIGHT GLX (PST-2BDT)	5.7	DLFPS-236/3552	4.3		
SWIFT (PST-2A2)	5.7	EVOLVE	4.3	LSD VALUE	2.0
021	5.3	HELIOS (DLFPS-236/3538)	4.3	C.V. (%)	24.7

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 23.

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 SIAM 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	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	MRSI-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
MRSI-PR16	18.3	HELIOS (DLFPS-236/3538)	6.7	IVY (PST-2GTD)	1.7
CS-6	16.7	PARAGON 2 GLR (FP2)	6.7	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	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 24.

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

NAME	PERCENT GROUND COVER		WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/		PERCENT GROUND COVER		PERCENT GROUND COVER	
	TRAFFIC	WEAR TOLERANCE	NAME	TRAFFIC	WEAR TOLERANCE	NAME	TRAFFIC	WEAR TOLERANCE
SR 4700 (DLFPS-236/3543)	38.3	4.3	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
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	MRS-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	MRS-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	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.

APPENDIX TABLE.

SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS */
2021 DATA
TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY	MAXIMUM	NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/		MEAN 1/	IN TOP 25% 2/
021	5.9	26.7	GRAY WOLF (PST-2GAL)	5.7	6.7
02BS1	5.9	40.0	GREEN SUPREME+ (AMP-R1)	5.4	13.3
ALLOY (RRT)	6.0	60.0	HATRICK (BSP-17)	5.4	6.7
ALLSTAR FORE (DLFPS-236/3541)	5.8	40.0	HELIOS (DLFPS-236/3538)	5.8	33.3
ALLSTAR III	5.1	0.0	HOMERUN LS (PPG-PR 419)	6.0	46.7
APPLE 3GL (PPG-PR 339)	6.0	66.7	INTENSE	5.6	20.0
APR2612	5.5	0.0	IVY (PST-2GTD)	5.8	13.3
APR2616	5.6	13.3	JR-123	5.6	20.0
APR3060	5.7	26.7	JR-197	6.0	60.0
ASP0116EXT	5.4	13.3	JR-747	5.0	0.0
ASP0117 (A-PR15)	5.7	20.0	JR-888	5.3	0.0
ASP0118GL (A-4G)	5.6	0.0	KARMA	5.5	13.3
ASP0218 (A-6D)	5.4	13.3	LINN	3.3	0.0
BAR LP 6117	5.6	20.0	LPB-SD-101	5.1	0.0
BAR LP 6131	5.5	0.0	LPB-SD-102	5.2	0.0
BAR LP 6158	5.5	13.3	LPB-SD-103	5.2	13.3
BAR LP 6159	5.5	13.3	LPB-SD-104	4.9	0.0
BAR LP 6162	4.9	0.0	LPB-SD-105	4.9	0.0
BAR LP 6164	5.6	6.7	MAN O WAR	5.7	26.7
BAR LP 6165	5.4	13.3	MENSA	5.1	0.0
BAR LP 6233	5.7	26.7	MIGHTIER (DLFPS-236/3542)	5.7	13.3
BELIZE 2 (GO-142)	5.2	6.7	MRS�-PR15	5.3	0.0
BRIGHTSTAR SLT	5.1	0.0	MRS�-PR16	5.4	13.3
CATALYST (023)	5.9	40.0	MYSTIQUE (DLFPS-236/3547)	6.1	66.7
CAYMAN (GO-143)	5.1	6.7	NEXUS GT (SNX)	5.3	20.0
CPN	5.8	13.3	NP-2	5.9	40.0
CS-6	5.5	6.7	NP-3	6.0	53.3
DERBY XTREME	5.5	13.3	OVERDRIVE 5G	5.8	26.7
DLFPS-236/3540	5.6	13.3	PARADOX GLR (PPG-PR 331)	5.8	26.7
DLFPS-236/3546	6.1	46.7	PARAGON 2 GLR (FP2)	5.8	33.3
DLFPS-236/3550	5.7	20.0	PEPPER II (RAD-PR 103)	5.4	13.3
DLFPS-236/3552	6.0	60.0	PHARAOH	5.8	33.3
DLFPS-236/3553	5.9	33.3	PL2	6.0	40.0
DLFPS-236/3556	5.9	40.0	PPG-PR 360	5.9	13.3
DLFPS-238/3014	5.4	13.3	PPG-PR 367	5.9	66.7
EVOLVE	5.4	6.7	PPG-PR 370	5.9	33.3
FASTBALL 3GL (PPG-PR 329)	5.9	40.0	PPG-PR 371	5.9	60.0
FIESTA CINCO (DLFPS-236/3554)	5.9	33.3	PPG-PR 372	6.1	66.7
FIREBALL (BWH)	5.2	13.3	PPG-PR 385	5.8	13.3
FURLONG (LTP-FCB)	6.2	73.3	PALMER SUPREME (PPG-PR 421)	6.0	60.0
GATOR CINCO (DLFPS-236/3548)	5.9	26.7	PPG-PR 422	5.9	46.7
GATOR FORE (DLFPS-236/3544)	6.0	53.3	PPG-PR 423	6.0	46.7
GO-141	5.2	0.0	PR-5-16	5.8	26.7
GRAND SLAM GLD	5.7	13.3	PR-6-15	5.9	40.0
GRAY HAWK (PST-2FIND)	5.5	6.7	PST-2EGAD	5.6	13.3

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

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

NAME	QUALITY	
	MEAN 1/	MAXIMUM IN TOP 25% 2/
PST-2FOXY	5.8	46.7
PST-2MAY	5.7	20.0
PST-2PDA	5.6	13.3
RAD-PR 112	5.3	6.7
SAGUARO	5.2	0.0
SAVANT	5.2	0.0
SEABISCUIT	5.8	6.7
SHIELD (02BS4)	5.7	26.7
SIGNET	5.6	13.3
SILVER SPORT (PST-2CRP)	5.9	46.7
SLIDER LS (PPG-PR 241)	5.9	40.0
SLUGGER 3GL (PPG-PR 343)	6.0	53.3
SPIKE GLS (UF3)	5.8	26.7
SR 4650	5.7	13.3
SR 4700 (DLFPS-236/3543)	6.0	40.0
STARBRIGHT GLX (PST-2BDT)	5.6	13.3
STELLAR 4GL (PPG-PR 424)	6.2	73.3
SUNBURST (02BS2)	6.0	60.0
SUPERSTAR GL (PPG-PR 420)	6.0	53.3
SWIFT (PST-2A2)	5.8	40.0
TEE-ME-UP (BSP-25)	5.3	6.7
UMPQUA	5.9	26.7
XCELERATOR	5.9	40.0
ZOOM 2 (DLFPS-236/3545)	6.0	53.3
LSD VALUE	0.3	
C.V. (%)	9.3	

*/ 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.