

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>.

2022 NATIONAL PERENNIAL RYEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2023

State	Location	Code
California	Palm Desert	CA5
Colorado	Ft. Collins (Salt Stress)	CO1
Connecticut	Storrs	CT1
Florida	Gainesville	FL1
Iowa	Ames	IA1
Iowa	Ames (Shade)	IA2
Indiana	West Lafayette	IN1
Indiana	West Lafayette (Fairway)	IN2
Massachusetts	Amherst	MA1
Minnesota	St. Paul	MN1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
Ohio	Columbus	OH1
Ohio	Wooster	OH3
Canada	Ontario-Guelph	ON1
Oregon	Corvallis	OR1
Canada	Quebec City	QE1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Virginia	Blacksburg (Fairway)	VA2

2022 NATIONAL PERENNIAL RYEGRASS TEST-ENTRIES AND SPONSORS

ENTRY NO.	NAME	SPONSOR	ENTRY NO.	NAME	SPONSOR
1	RC20-02o	Criadero El Cencero S.A.	43	PPG-PR 668	Landmark Seed Company
2	LTP-RPP4	Lebanon Seaboard Corp.	44	PPG-PR 670	Semillas Fito
*3	Greenback	Carlton Seed, LLC	45	PPG-PR 671	Turf Merchants, Inc.
*4	Sundown (BY-PS2)	BrettYoung	46	SGP4	Semillas Fito
5	LTP-NR	Lebanon Seaboard Corp.	*47	High Octane	Burlingham Seeds, LLC
6	PVF-RPP2	Pineview Farms, LLC	*48	Piston	Burlingham Seeds, LLC
*7	Stellar 4GL	Standard	49	MRSL-PR22	SiteOne Landscape Supply
*8	Homerun LS	Standard	50	PVF-SGS5	SiteOne Landscape Supply
*9	Siletz	Vista Seed Partners, LLC	51	20PR10	SiteOne Landscape Supply
10	GO-RUS20	GO Seed	52	PS4	SiteOne Landscape Supply
11	GO-RUS21	GO Seed	53	BAR LP 22191	Barenbrug USA
12	GO-RUS22	GO Seed	54	BAR LP 22256	Barenbrug USA
13	PST-2ADS	Pure-Seed Testing Inc.	55	BAR LP 22262	Barenbrug USA
14	PST-2BGL	Pure-Seed Testing Inc.	56	BAR LP 22263	Barenbrug USA
*15	Lightspeed (PST-2DRG)	BrettYoung	57	BAR LP 22174	Barenbrug USA
16	PST-2EGY	Barenbrug	58	Nexus DK (SE-DK)	Smith Seed Services
17	PST-2GDS	Pure-Seed Testing Inc.	*59	Prominent II (TSC-CRS)	Columbia River Seed
*18	Flightline (PST-214)	Pure Seed	*60	Gray Eagle SLT (PST-2MEG)	Pure Seed
*19	Ultra Sport (PST-2HAF20)	Pure Seed	61	PST-2E6	Semillas Fito
20	PST-2HFM	Pure-Seed Testing Inc.	*62	Brightstar SLT	Standard
21	PST-2MES1	Pure-Seed Testing Inc.	63	CJP1R	ProSeeds Marketing, Inc.
22	PST-2SPF	Pure-Seed Testing Inc.	*64	Performance (NAI-PR5)	Columbia River Seed
23	PPG-PR 602	Mountain View Seeds	*65	RPP3	Ampac Seed Company
24	PPG-PR 606	Integra Turf, Inc.	*66	APS	Ampac Seed Company
25	PPG-PR 610	Smith Seed Services	67	SEPR-2013	Smith Seed Services
*26	Relic (PPG-PR 611)	The Scotts Company	68	BSG-PR22	Bailey Seed & Grain
27	PPG-PR 620	Peak Plant Genetics, LLC	*69	Dark Matter	Marion Ag Service, Inc.
28	PPG-PR 637	Mountain View Seeds	70	DLF-PR-3726	DLF USA
29	PPG-PR 639	Turf Merchants, Inc.	71	DLF-PR-3727	DLF USA
30	PPG-PR 642	Landmark Seed Company	72	DLF-PR-3728	DLF USA
31	PPG-PR 643	Landmark Seed Company	73	DLF-PR-3729	DLF USA
32	PPG-PR 644	Mountain View Seeds	74	DLF-PR-3730	DLF USA
33	PPG-PR 646	ProSeeds Marketing, Inc.	75	DLF-PR-3735	DLF USA
34	PPG-PR 647	BrettYoung	76	DLF-PR-3736	DLF USA
35	PPG-PR 658	Mountain View Seeds	77	DLF-PR-3737	DLF USA
36	PPG-PR 661	ProSeeds Marketing, Inc.	*78	Karma	Standard
37	PPG-PR 662	Peak Plant Genetics, LLC	*79	Alpha Centauri	Marion Ag Service, Inc.
38	PPG-PR 663	Mountain View Seeds	*80	Quasar	Marion Ag Service, Inc.
39	PPG-PR 664	Peak Plant Genetics, LLC	*81	Linn	Standard
*40	Vortex SRT (PPG-PR 665)	Landmark Seed Company	82	DLF-PR-3738	DLF USA
41	PPG-PR 666	Turf Merchants, Inc.	83	DLF-LGT-3066	DLF USA
42	PPG-PR 667	Smith Seed Services			

AVAILABLE IN 2024 IN THE US OR ANY OTHER COUNTRY

TABLE A.

2023 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2022 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
CA5	LOAMY SAND	7.1-7.5	151-270	241-375	0.0-1.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
CO1	-	-	-	-	-	-	-	-
CT1	SANDY LOAM	6.1-6.5	61-150	151-240	-	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
FL1	-	-	-	-	-	-	-	-
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
IA2	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	DENSE SHADE	2.1-2.5	TO PREVENT DORMANCY
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	3.1-3.5	TO PREVENT DORMANCY
IN2	SILT LOAM AND SILT	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
MN1	SILTY CLAY LOAM	7.6-8.5	61-150	241-375	2.1-3.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	271-450	241-375	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OH1	-	-	-	-	-	-	-	-
OH3	-	-	-	-	-	-	-	-
ON1	-	7.6-8.5	-	-	-	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
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
QE1	-	-	-	-	-	-	-	-
UT1	SILT LOAM AND SILT	7.6-8.5	-	-	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
VA1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
VA2	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	0.6-1.0	ONLY DURING SEVERE STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2023

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
CA5	X	X	X	X						X	X	X
CO1				X	X	X	X	X	X	X	X	
CT1												
FL1	X	X	X									
IA1				X	X	X	X	X	X	X	X	
IA2				X	X	X	X	X	X	X	X	
IN1				X	X	X	X	X	X	X	X	
IN2				X	X	X	X	X	X	X	X	
MA1				X	X	X	X	X	X	X	X	
MN1					X	X	X	X	X	X		
NE1				X	X	X	X	X	X	X		
NJ2				X	X	X	X	X	X	X	X	
OH1				X	X	X	X	X	X	X	X	X
OH3				X	X	X	X	X	X	X	X	X
ON1					X	X	X	X	X	X	X	
OR1	X	X	X	X	X	X	X	X	X	X	X	X
QE1							X	X	X	X		
UT1					X	X	X	X	X	X		
VA1				X	X	X	X	X	X	X		
VA2				X	X	X	X	X	X	X		

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	GENETIC COLOR	SPRING GREENUP	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	DOLLAR SPOT	CROWN RUST	PINK SNOW MOLD
CA5	X											
CO1												
CT1	X											
FL1												
IA1	X	X		X	X	X	X	X	X			
IA2	X	X		X	X	X						
IN1	X		X	X	X							
IN2										X		
MA1												
MN1	X		X						X		X	
NE1	X	X	X									
NJ2	X		X			X						
OH1	X			X			X		X			
OH3	X		X	X			X		X			
ON1	X											
OR1	X		X									
QE1	X											
UT1		X	X									X
VA1												
VA2										X		

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	SEEDHEAD RATINGS	POA ANNUA	PERCENT ESTABLISH- MENT	QUALITY RATINGS			PERCENT ESTABLISHMENT		% GREEN OCTOBER 2022	COVER APRIL 2023	POA ANNUA		WEAR TOLERANCE		
				OCT 2022	NOV 2022	DEC 2022	4 WEEKS	7 WEEKS			MAY	OCTOBER	MAY	JULY	OCTOBER
CA5			X						X	X					
* CO1															
CT1			X												
FL1						X									
IA1				X	X		X	X							
* IA2															
IN1	X	X				X									
IN2		X													
MA1			X								X	X		X	X
MN1															
NE1															
NJ2															
OH1															
OH3			X												
ON1			X												
OR1															
QE1			X												
UT1				X											
VA1															
VA2															

* MORE DATA FOR IA2 IN TABLE 12 AND FOR CO1 IN TABLE 16.

TABLE 1.

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	ENTRY #	NJ2	NAME	ENTRY #	NJ2
DLF-PR-3728	72	7.6	20PR10	51	6.3
PPG-PR 637	28	7.5	GO-RUS20	10	6.3
*APS	66	7.5	PST-2GDS	17	6.3
PPG-PR 658	35	7.4	BAR LP 22174	57	6.3
PPG-PR 606	24	7.4	PST-2ADS	13	6.2
PPG-PR 664	39	7.3	PPG-PR 643	31	6.2
DLF-PR-3730	74	7.3	LTP-NR	5	6.2
PPG-PR 639	29	7.3	*QUASAR	80	6.1
DLF-PR-3726	70	7.2	PS4	52	6.1
SGP4	46	7.2	PST-2HFM	20	6.1
PPG-PR 644	32	7.2	PST-2BGL	14	6.0
*ALPHA CENTAURI	79	7.2	DLF-LGT-3066	83	6.0
*SILETZ	9	7.1	PST-2EGY	16	5.8
PPG-PR 662	37	7.1	*GRAY EAGLE SLT (PST-2MEG)	60	5.8
PPG-PR 668	43	7.1	DLF-PR-3735	75	5.7
LTP-RPP4	2	7.1	*RPP3	65	5.7
CJP1R	63	7.1	DLF-PR-3737	77	5.7
DLF-PR-3729	73	7.0	GO-RUS22	12	5.6
*RELIC (PPG-PR 611)	26	7.0	DLF-PR-3727	71	5.6
PPG-PR 667	42	7.0	PST-2E6	61	5.6
PVF-SGS5	50	6.9	*HOMERUN LS	8	5.5
PPG-PR 661	36	6.9	*HIGH OCTANE	47	5.4
PPG-PR 666	41	6.9	PST-2MES1	21	5.3
PPG-PR 602	23	6.8	BAR LP 22191	53	5.2
PPG-PR 610	25	6.8	BAR LP 22263	56	5.2
PPG-PR 671	45	6.8	BAR LP 22256	54	5.1
PVF-RPP2	6	6.8	BAR LP 22262	55	5.1
*STELLAR 4GL	7	6.8	*KARMA	78	5.1
PPG-PR 642	30	6.7	*LIGHTSPEED (PST-2DRG)	15	4.9
PPG-PR 620	27	6.7	*GREENBACK	3	4.7
*FLIGHTLINE (PST-214)	18	6.7	*NEXUS DK (SE-DK)	58	4.7
PPG-PR 663	38	6.7	*BRIGHTSTAR SLT	62	4.5
PPG-PR 670	44	6.7	BSG-PR22	68	4.5
*SUNDOWN (BY-PS2)	4	6.7	*DARK MATTER	69	4.5
GO-RUS21	11	6.6	RC20-020	1	4.1
PPG-PR 647	34	6.6	MRS-L-PR22	49	4.1
PPG-PR 646	33	6.5	PST-2SPF	22	4.0
*VORTEX SRT (PPG-PR 665)	40	6.5	*PROMINENT II (TSC-CRS)	59	3.9
DLF-PR-3738	82	6.5	SEPR-2013	67	3.3
*PERFORMANCE (NAI-PR5)	64	6.4	*LINN	81	1.3
*PISTON	48	6.4			
*ULTRA SPORT (PST-2HAF20)	19	6.4	LSD VALUE		0.7
DLF-PR-3736	76	6.3	C.V. (%)		7.0

* COMMERCIALY AVAILABLE IN THE USA IN 2024

** 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 */
2023 DATA

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

NAME	ENTRY #	MN1	NAME	ENTRY #	MN1
PPG-PR 637	28	6.4	PPG-PR 643	31	6.0
PPG-PR 639	29	6.4	PPG-PR 646	33	6.0
APS	66	6.3	PST-2HFM	20	5.9
DLF-PR-3728	72	6.3	PS4	52	5.9
PPG-PR 668	43	6.3	DLF-PR-3736	76	5.9
PPG-PR 664	39	6.3	PST-2GDS	17	5.9
SILETZ	9	6.3	PST-2BGL	14	5.9
PPG-PR 658	35	6.3	LTP-NR	5	5.9
PPG-PR 661	36	6.3	GRAY EAGLE SLT (PST-2MEG)	60	5.8
PPG-PR 606	24	6.3	GO-RUS20	10	5.8
PPG-PR 666	41	6.2	QUASAR	80	5.8
DLF-PR-3730	74	6.2	PST-2EGY	16	5.8
PPG-PR 670	44	6.2	DLF-PR-3735	75	5.8
DLF-PR-3729	73	6.2	PST-2MES1	21	5.8
PPG-PR 644	32	6.2	PST-2E6	61	5.7
PVF-SGS5	50	6.2	BAR LP 22174	57	5.7
PPG-PR 662	37	6.2	HOMERUN LS	8	5.7
PPG-PR 610	25	6.2	GO-RUS22	12	5.7
PPG-PR 667	42	6.2	DLF-PR-3727	71	5.7
RELIC (PPG-PR 611)	26	6.2	RPP3	65	5.7
CJP1R	63	6.2	DLF-PR-3737	77	5.6
VORTEX SRT (PPG-PR 665)	40	6.2	HIGH OCTANE	47	5.6
SGP4	46	6.2	DLF-LGT-3066	83	5.6
DLF-PR-3726	70	6.2	BAR LP 22191	53	5.5
LTP-RPP4	2	6.1	BAR LP 22263	56	5.5
PPG-PR 647	34	6.1	NEXUS DK (SE-DK)	58	5.5
STELLAR 4GL	7	6.1	LIGHTSPEED (PST-2DRG)	15	5.4
PPG-PR 620	27	6.1	KARMA	78	5.4
GO-RUS21	11	6.1	BAR LP 22256	54	5.4
ALPHA CENTAURI	79	6.1	RC20-020	1	5.3
PVF-RPP2	6	6.1	DARK MATTER	69	5.3
PPG-PR 671	45	6.1	GREENBACK	3	5.3
PERFORMANCE (NAI-PR5)	64	6.1	MRSI-PR22	49	5.3
PISTON	48	6.1	BAR LP 22262	55	5.3
PPG-PR 663	38	6.1	BSG-PR22	68	5.2
DLF-PR-3738	82	6.0	BRIGHTSTAR SLT	62	5.1
FLIGHTLINE (PST-214)	18	6.0	PROMINENT II (TSC-CRS)	59	5.1
PPG-PR 642	30	6.0	PST-2SPF	22	5.0
PPG-PR 602	23	6.0	SEPR-2013	67	4.8
20PR10	51	6.0	LINN	81	3.5
PST-2ADS	13	6.0			
ULTRA SPORT (PST-2HAF20)	19	6.0	LSI VALUE		0.7
SUNDOWN (BY-PS2)	4	6.0	C.V. (%)		7.3

* 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 */
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									
NAME	ENTRY #	IN1	ON1	OH1	VA1	OR1	CT1	QE1	MEAN
PPG-PR 639	29	6.0	6.6	6.4	7.1	6.7	6.3	6.3	6.5
PPG-PR 668	43	5.9	6.6	6.4	7.1	6.7	6.3	6.2	6.5
PPG-PR 637	28	6.0	6.6	6.4	7.1	6.7	6.3	6.2	6.5
PPG-PR 661	36	5.9	6.6	6.4	7.1	6.7	6.3	6.2	6.5
SILETZ	9	5.9	6.6	6.4	7.1	6.7	6.3	6.2	6.5
PPG-PR 670	44	5.9	6.6	6.4	7.1	6.7	6.3	6.2	6.5
APS	66	6.0	6.6	6.4	7.1	6.7	6.3	6.2	6.4
VORTEX SRT (PPG-PR 665)	40	5.8	6.5	6.4	7.1	6.7	6.3	6.2	6.4
PPG-PR 666	41	5.9	6.5	6.4	7.1	6.7	6.3	6.2	6.4
PPG-PR 664	39	5.9	6.5	6.4	7.1	6.7	6.3	6.2	6.4
PPG-PR 610	25	5.8	6.5	6.3	7.0	6.6	6.3	6.2	6.4
PVF-SGS5	50	5.8	6.5	6.3	7.0	6.6	6.2	6.1	6.4
PPG-PR 647	34	5.8	6.5	6.3	7.0	6.6	6.2	6.2	6.4
DLF-PR-3728	72	5.9	6.5	6.3	7.0	6.6	6.2	6.1	6.4
DLF-PR-3729	73	5.8	6.5	6.3	7.0	6.6	6.2	6.1	6.4
PPG-PR 658	35	5.9	6.5	6.3	7.0	6.6	6.2	6.1	6.4
PPG-PR 606	24	5.9	6.5	6.3	7.0	6.6	6.2	6.1	6.4
PPG-PR 667	42	5.8	6.5	6.3	7.0	6.6	6.2	6.1	6.4
RELIC (PPG-PR 611)	26	5.8	6.4	6.3	7.0	6.6	6.2	6.1	6.3
DLF-PR-3730	74	5.8	6.5	6.3	7.0	6.6	6.2	6.1	6.3
STELLAR 4GL	7	5.8	6.4	6.3	7.0	6.6	6.2	6.1	6.3
PERFORMANCE (NAI-PR5)	64	5.7	6.4	6.3	7.0	6.6	6.2	6.1	6.3
PISTON	48	5.7	6.4	6.3	7.0	6.6	6.2	6.1	6.3
PPG-PR 644	32	5.8	6.4	6.3	7.0	6.6	6.2	6.1	6.3
PPG-PR 662	37	5.8	6.4	6.3	7.0	6.6	6.2	6.1	6.3
CJP1R	63	5.8	6.4	6.3	6.9	6.6	6.2	6.1	6.3
GO-RUS21	11	5.7	6.4	6.2	6.9	6.6	6.2	6.1	6.3
PST-2ADS	13	5.7	6.4	6.2	6.9	6.6	6.2	6.1	6.3
PPG-PR 620	27	5.7	6.4	6.2	6.9	6.6	6.2	6.1	6.3
20PR10	51	5.7	6.4	6.2	6.9	6.6	6.2	6.1	6.3
DLF-PR-3738	82	5.7	6.4	6.2	6.9	6.5	6.2	6.1	6.3
SGP4	46	5.8	6.4	6.2	6.9	6.5	6.1	6.0	6.3
DLF-PR-3726	70	5.8	6.4	6.2	6.9	6.5	6.1	6.0	6.3
LTP-RPP4	2	5.8	6.4	6.2	6.9	6.5	6.1	6.0	6.3
PVF-RPP2	6	5.7	6.4	6.2	6.9	6.5	6.1	6.0	6.3
PPG-PR 671	45	5.7	6.4	6.2	6.9	6.5	6.1	6.0	6.3
PPG-PR 663	38	5.7	6.4	6.2	6.9	6.5	6.1	6.0	6.3
PST-2HFM	20	5.6	6.3	6.2	6.9	6.5	6.1	6.1	6.2
PPG-PR 643	31	5.6	6.3	6.2	6.9	6.5	6.1	6.0	6.2
ULTRA SPORT (PST-2HAF20)	19	5.7	6.3	6.2	6.9	6.5	6.1	6.0	6.2
FLIGHTLINE (PST-214)	18	5.7	6.3	6.2	6.9	6.5	6.1	6.0	6.2
PPG-PR 642	30	5.7	6.3	6.2	6.9	6.5	6.1	6.0	6.2
PS4	52	5.6	6.3	6.1	6.9	6.5	6.1	6.0	6.2
PST-2MES1	21	5.5	6.3	6.1	6.8	6.5	6.1	6.1	6.2

TABLE 3.
CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									
NAME	ENTRY #	IN1	ON1	OH1	VA1	OR1	CT1	QE1	MEAN
PPG-PR 602	23	5.7	6.3	6.1	6.8	6.4	6.0	6.0	6.2
ALPHA CENTAURI	79	5.7	6.3	6.1	6.8	6.4	6.0	5.9	6.2
GRAY EAGLE SLT (PST-2MEG)	60	5.5	6.3	6.1	6.8	6.5	6.1	6.0	6.2
PST-2BGL	14	5.6	6.3	6.1	6.8	6.5	6.1	6.0	6.2
SUNDOWN (BY-PS2)	4	5.6	6.3	6.1	6.8	6.4	6.0	5.9	6.2
PPG-PR 646	33	5.6	6.3	6.1	6.8	6.4	6.0	5.9	6.2
DLF-PR-3736	76	5.6	6.3	6.1	6.8	6.4	6.0	5.9	6.2
PST-2GDS	17	5.6	6.2	6.1	6.8	6.4	6.0	5.9	6.1
LTP-NR	5	5.5	6.2	6.1	6.8	6.4	6.0	5.9	6.1
DLF-PR-3735	75	5.5	6.2	6.0	6.7	6.4	6.0	5.9	6.1
PST-2EGY	16	5.5	6.2	6.0	6.7	6.4	6.0	5.9	6.1
HOMERUN LS	8	5.4	6.2	6.0	6.7	6.4	6.0	5.9	6.1
PST-2E6	61	5.4	6.2	6.0	6.7	6.4	6.0	5.9	6.1
QUASAR	80	5.5	6.2	6.0	6.7	6.3	6.0	5.9	6.1
DLF-PR-3727	71	5.4	6.1	6.0	6.7	6.3	5.9	5.9	6.0
GO-RUS22	12	5.4	6.1	6.0	6.7	6.3	5.9	5.9	6.0
GO-RUS20	10	5.5	6.1	6.0	6.7	6.3	5.9	5.8	6.0
RPP3	65	5.3	6.1	5.9	6.6	6.3	5.9	5.8	6.0
RC20-020	1	5.1	6.0	5.8	6.6	6.3	5.9	5.9	5.9
HIGH OCTANE	47	5.3	6.0	5.9	6.6	6.2	5.9	5.8	5.9
NEXUS DK (SE-DK)	58	5.2	6.0	5.8	6.6	6.3	5.9	5.8	5.9
BAR LP 22174	57	5.4	6.0	5.9	6.6	6.2	5.8	5.7	5.9
DLF-PR-3737	77	5.3	6.0	5.8	6.6	6.2	5.8	5.7	5.9
BAR LP 22191	53	5.2	6.0	5.8	6.5	6.2	5.8	5.7	5.9
MRSI-PR22	49	5.1	5.9	5.8	6.5	6.2	5.8	5.8	5.9
BAR LP 22263	56	5.2	5.9	5.8	6.5	6.1	5.8	5.7	5.8
LIGHTSPEED (PST-2DRG)	15	5.1	5.9	5.7	6.5	6.1	5.8	5.7	5.8
DARK MATTER	69	5.1	5.9	5.7	6.5	6.2	5.8	5.7	5.8
KARMA	78	5.1	5.9	5.7	6.4	6.1	5.7	5.6	5.8
GREENBACK	3	5.0	5.8	5.7	6.4	6.1	5.7	5.6	5.8
BAR LP 22256	54	5.1	5.8	5.7	6.4	6.1	5.7	5.6	5.7
BSG-PR22	68	5.0	5.8	5.6	6.4	6.1	5.7	5.6	5.7
PROMINENT II (TSC-CRS)	59	4.9	5.7	5.6	6.3	6.0	5.6	5.6	5.7
BAR LP 22262	55	5.0	5.7	5.5	6.3	5.9	5.5	5.5	5.6
BRIGHTSTAR SLT	62	4.9	5.7	5.5	6.3	5.9	5.6	5.5	5.6
PST-2SPF	22	4.8	5.6	5.5	6.2	5.9	5.5	5.5	5.6
DLF-LGT-3066	83	5.2	5.9	5.7	6.4	6.1	5.7	5.6	5.6
SEPR-2013	67	4.6	5.5	5.3	6.1	5.8	5.4	5.4	5.4
LINN	81	3.3	4.3	4.1	4.9	4.7	4.3	4.3	4.3
LSD VALUE		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
C.V. (%)		7.7	6.9	7.1	6.3	6.7	7.1	7.2	7.0

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

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

TABLE 4.

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	ENTRY #	IA1	NAME	ENTRY #	IA1
PPG-PR 670	44	6.6	HOMERUN LS	8	6.3
VORTEX SRT (PPG-PR 665)	40	6.6	PPG-PR 642	30	6.3
PPG-PR 661	36	6.5	SGP4	46	6.3
PPG-PR 639	29	6.5	LTP-RPP4	2	6.3
PPG-PR 668	43	6.5	DLF-PR-3726	70	6.3
SILETZ	9	6.5	DLF-PR-3735	75	6.3
PPG-PR 666	41	6.5	PST-2E6	61	6.3
PPG-PR 637	28	6.5	LTP-NR	5	6.3
PPG-PR 647	34	6.5	DLF-PR-3736	76	6.3
PPG-PR 610	25	6.5	PST-2GDS	17	6.3
APS	66	6.5	PST-2EGY	16	6.3
PST-2ADS	13	6.4	PPG-PR 602	23	6.3
PISTON	48	6.4	PPG-PR 646	33	6.2
PERFORMANCE (NAI-PR5)	64	6.4	SUNDOWN (BY-PS2)	4	6.2
PST-2MES1	21	6.4	DLF-PR-3727	71	6.2
PVF-SGS5	50	6.4	GO-RUS22	12	6.2
PPG-PR 664	39	6.4	NEXUS DK (SE-DK)	58	6.2
DLF-PR-3729	73	6.4	MRSL-PR22	49	6.2
20PR10	51	6.4	QUASAR	80	6.2
STELLAR 4GL	7	6.4	ALPHA CENTAURI	79	6.2
PPG-PR 667	42	6.4	HIGH OCTANE	47	6.1
GO-RUS21	11	6.4	GO-RUS20	10	6.1
PST-2HFM	20	6.4	RPP3	65	6.1
DLF-PR-3738	82	6.4	BAR LP 22191	53	6.1
RELIC (PPG-PR 611)	26	6.4	DARK MATTER	69	6.1
PPG-PR 643	31	6.4	DLF-PR-3737	77	6.1
PPG-PR 620	27	6.4	LIGHTSPEED (PST-2DRG)	15	6.1
PS4	52	6.4	BAR LP 22263	56	6.0
PPG-PR 658	35	6.4	BAR LP 22174	57	6.0
PPG-PR 606	24	6.4	GREENBACK	3	6.0
PPG-PR 662	37	6.4	BSG-PR22	68	6.0
CJP1R	63	6.4	PROMINENT II (TSC-CRS)	59	6.0
PPG-PR 644	32	6.4	KARMA	78	6.0
ULTRA SPORT (PST-2HAF20)	19	6.4	BAR LP 22256	54	6.0
GRAY EAGLE SLT (PST-2MEG)	60	6.4	PST-2SPF	22	5.9
DLF-PR-3728	72	6.3	DLF-LGT-3066	83	5.9
DLF-PR-3730	74	6.3	BRIGHTSTAR SLT	62	5.9
PPG-PR 663	38	6.3	SEPR-2013	67	5.8
PVF-RPP2	6	6.3	BAR LP 22262	55	5.8
PST-2BGL	14	6.3	LINN	81	4.8
PPG-PR 671	45	6.3			
FLIGHTLINE (PST-214)	18	6.3	LSD VALUE		0.7
RC20-020	1	6.3	C.V. (%)		6.8

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

TABLE 5.

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 */
2023 DATA

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

NAME	ENTRY #	NE1	NAME	ENTRY #	NE1
PST-2MES1	21	6.2	PVF-RPP2	6	5.9
RC20-020	1	6.2	CJP1R	63	5.9
VORTEX SRT (PPG-PR 665)	40	6.2	PST-2GDS	17	5.9
PPG-PR 670	44	6.2	PROMINENT II (TSC-CRS)	59	5.9
PPG-PR 661	36	6.2	PPG-PR 662	37	5.9
PST-2ADS	13	6.1	PPG-PR 671	45	5.9
PPG-PR 647	34	6.1	DLF-PR-3736	76	5.9
MRSI-PR22	49	6.1	FLIGHTLINE (PST-214)	18	5.9
PPG-PR 668	43	6.1	PPG-PR 644	32	5.9
PPG-PR 666	41	6.1	PPG-PR 658	35	5.9
PPG-PR 639	29	6.1	PPG-PR 642	30	5.9
PISTON	48	6.1	DLF-PR-3730	74	5.9
PERFORMANCE (NAI-PR5)	64	6.1	PPG-PR 606	24	5.9
PPG-PR 610	25	6.1	BAR LP 22191	53	5.9
PST-2HFM	20	6.1	HIGH OCTANE	47	5.9
SILETZ	9	6.1	QUASAR	80	5.9
20PR10	51	6.1	LIGHTSPEED (PST-2DRG)	15	5.9
GRAY EAGLE SLT (PST-2MEG)	60	6.1	PPG-PR 646	33	5.9
PS4	52	6.1	BSG-PR22	68	5.8
PPG-PR 643	31	6.1	LTP-RPP4	2	5.8
NEXUS DK (SE-DK)	58	6.1	DLF-PR-3728	72	5.8
HOMERUN LS	8	6.1	RPP3	65	5.8
PVF-SGS5	50	6.0	PPG-PR 602	23	5.8
DLF-PR-3738	82	6.0	SGP4	46	5.8
GO-RUS21	11	6.0	SUNDOWN (BY-PS2)	4	5.8
STELLAR 4GL	7	6.0	DLF-PR-3726	70	5.8
PPG-PR 637	28	6.0	GREENBACK	3	5.8
PST-2E6	61	6.0	BAR LP 22263	56	5.8
PST-2BGL	14	6.0	PST-2SPF	22	5.8
DLF-PR-3729	73	6.0	DLF-PR-3737	77	5.8
ULTRA SPORT (PST-2HAF20)	19	6.0	SEPR-2013	67	5.8
PPG-PR 667	42	6.0	GO-RUS20	10	5.8
DLF-PR-3735	75	6.0	KARMA	78	5.8
PPG-PR 620	27	6.0	ALPHA CENTAURI	79	5.7
PPG-PR 664	39	6.0	BAR LP 22256	54	5.7
APS	66	6.0	BRIGHTSTAR SLT	62	5.7
DARK MATTER	69	6.0	BAR LP 22174	57	5.6
RELIC (PPG-PR 611)	26	6.0	BAR LP 22262	55	5.6
PST-2EGY	16	6.0	DLF-LGT-3066	83	5.5
DLF-PR-3727	71	6.0	LINN	81	4.8
GO-RUS22	12	5.9			
PPG-PR 663	38	5.9	LSO VALUE		0.7
LTP-NR	5	5.9	C.V. (%)		7.2

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TABLE 6.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THREE LOCATIONS 1/
IN THE NORTHEAST REGION
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	CT1	NJ2	QE1	MEAN
PPG-PR 658	6.2	7.5	6.7	6.8
APS	6.3	7.5	6.5	6.8
PPG-PR 639	6.4	7.2	6.8	6.8
PPG-PR 637	6.3	7.5	6.3	6.7
PPG-PR 668	6.1	7.0	6.9	6.7
PPG-PR 664	6.4	7.4	6.2	6.6
CJP1R	6.3	7.1	6.5	6.6
SGP4	6.3	7.3	6.3	6.6
SILETZ	6.4	7.3	6.1	6.6
PPG-PR 670	6.5	6.7	6.5	6.6
PPG-PR 662	6.2	7.3	6.2	6.5
PPG-PR 606	6.1	7.4	6.0	6.5
PVF-SGS5	6.3	6.9	6.3	6.5
VORTEX SRT (PPG-PR 665)	6.4	6.5	6.5	6.5
DLF-PR-3726	6.3	7.1	6.0	6.5
DLF-PR-3728	6.2	7.6	5.6	6.5
PVF-RPP2	6.0	6.9	6.5	6.5
DLF-PR-3730	6.3	7.3	5.7	6.4
PPG-PR 644	6.3	7.3	5.7	6.4
PPG-PR 610	6.1	6.9	6.3	6.4
PPG-PR 647	6.1	6.5	6.6	6.4
PPG-PR 666	6.3	6.8	6.1	6.4
FLIGHTLINE (PST-214)	6.1	6.8	6.3	6.4
PPG-PR 661	6.3	6.7	6.2	6.4
LTP-RPP4	6.1	7.3	5.8	6.4
STELLAR 4GL	6.2	6.6	6.3	6.4
PPG-PR 671	6.2	6.8	6.1	6.4
RELIC (PPG-PR 611)	6.1	7.0	6.0	6.4
DLF-PR-3729	5.9	6.9	6.3	6.4
ALPHA CENTAURI	6.0	7.1	5.9	6.3
20PR10	6.1	6.3	6.6	6.3
PPG-PR 642	6.0	6.8	6.2	6.3
PPG-PR 667	6.0	7.0	6.0	6.3
DLF-PR-3738	6.3	6.5	6.2	6.3
PERFORMANCE (NAI-PR5)	6.3	6.3	6.3	6.3
PPG-PR 646	6.3	6.6	5.8	6.3
PPG-PR 663	6.1	6.7	6.0	6.3
PISTON	5.9	6.3	6.6	6.3
PPG-PR 620	6.0	6.8	6.0	6.2
PPG-PR 602	6.1	6.8	5.7	6.2
PST-2ADS	6.3	6.3	6.1	6.2
GO-RUS21	6.1	6.7	5.8	6.2
PS4	6.0	6.0	6.5	6.2
SUNDOWN (BY-PS2)	5.9	6.8	5.7	6.1
PST-2BGL	5.9	6.1	6.3	6.1

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THREE LOCATIONS 1/
IN THE NORTHEAST REGION
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	CT1	NJ2	QE1	MEAN
ULTRA SPORT (PST-2HAF20)	6.0	6.3	5.9	6.1
PST-2HFM	5.9	6.0	6.2	6.0
PST-2GDS	6.1	6.3	5.7	6.0
PFG-PR 643	6.3	6.2	5.4	6.0
QUASAR	6.1	6.1	5.8	6.0
DLF-PR-3736	5.8	6.3	5.8	6.0
GO-RUS20	5.9	6.4	5.5	5.9
LTP-NR	6.0	6.3	5.5	5.9
BAR LP 22174	5.8	6.3	5.7	5.9
DLF-PR-3727	6.2	5.6	5.9	5.9
PST-2EGY	6.0	5.8	5.9	5.9
DLF-PR-3737	6.3	5.8	5.5	5.9
DLF-LGT-3066	5.7	6.2	5.6	5.8
GO-RUS22	6.0	5.6	5.8	5.8
DLF-PR-3735	5.6	5.8	5.9	5.8
PST-2E6	5.8	5.5	5.9	5.8
PST-2MES1	6.2	5.2	5.8	5.8
RPP3	5.9	5.7	5.6	5.7
GRAY EAGLE SLT (PST-2MEG)	5.9	5.6	5.6	5.7
HOMERUN LS	5.9	5.4	5.8	5.7
BAR LP 22191	6.1	5.3	5.6	5.7
HIGH OCTANE	5.8	5.5	5.6	5.6
BAR LP 22256	6.0	5.2	5.6	5.6
KARMA	5.8	5.1	5.8	5.5
BAR LP 22263	5.8	5.2	5.5	5.5
BAR LP 22262	5.5	5.3	5.3	5.4
LIGHTSPEED (PST-2DRG)	5.6	4.8	5.7	5.3
GREENBACK	5.6	4.8	5.5	5.3
PST-2SPF	5.3	4.1	6.5	5.3
RC20-020	5.8	3.9	6.2	5.3
DARK MATTER	5.9	4.4	5.4	5.2
MRS-L-PR22	5.8	4.0	5.8	5.2
BRIGHTSTAR SLT	5.6	4.6	5.3	5.2
NEXUS DK (SE-DK)	5.5	4.5	5.2	5.0
BSG-PR22	5.3	4.5	4.8	4.8
SEPR-2013	5.5	3.3	5.7	4.8
PROMINENT II (TSC-CRS)	5.5	3.7	5.3	4.8
LINN	4.9	1.8	4.9	3.9
LSD VALUE	0.4	0.6	0.9	0.4
C.V. (%)	4.5	6.2	9.6	7.1

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

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

TABLE 7. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT BLACKSBURG, VA (IN THE TRANSITION REGION) 2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS								
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
VORTEX SRT (PPG-PR 665)	7.7	8.0	6.7	8.0	6.3	7.3	8.0	7.4
PPG-PR 663	7.7	8.0	7.0	7.3	6.7	7.7	7.3	7.4
PPG-PR 664	7.7	8.0	7.0	7.3	6.7	7.3	7.0	7.3
PPG-PR 666	8.0	7.7	6.3	7.7	6.3	7.0	8.0	7.3
LTP-RPP4	8.0	8.0	7.0	7.3	6.3	7.0	7.3	7.3
PPG-PR 610	8.0	7.7	6.7	7.0	6.7	7.0	7.7	7.2
LTP-NR	8.0	7.7	6.7	7.0	6.7	6.3	8.0	7.2
PPG-PR 642	7.7	7.7	6.7	6.7	6.3	7.3	8.0	7.2
DLF-PR-3730	8.0	7.3	6.7	7.0	6.0	7.3	7.7	7.1
PPG-PR 667	7.3	8.0	6.7	7.3	6.3	6.7	7.7	7.1
PPG-PR 620	7.7	8.0	6.7	6.7	6.3	7.0	7.7	7.1
PPG-PR 639	8.0	8.0	6.7	6.7	6.0	6.7	8.0	7.1
PPG-PR 643	8.0	7.0	6.7	7.7	6.3	6.3	8.0	7.1
PPG-PR 671	7.7	8.0	6.3	6.3	6.3	7.0	8.0	7.1
GO-RUS21	7.7	7.7	6.7	6.7	6.7	6.7	7.7	7.1
GRAY EAGLE SLT (PST-2MEG)	8.0	7.3	7.3	6.3	6.0	7.0	7.7	7.1
PPG-PR 670	8.0	8.0	6.7	6.3	6.3	6.3	8.0	7.1
DLF-PR-3728	8.0	7.0	6.7	7.0	7.0	6.0	7.7	7.0
DLF-PR-3735	7.7	7.7	6.7	7.0	6.7	6.7	7.0	7.0
GO-RUS22	8.0	7.7	7.0	6.7	5.7	7.0	7.3	7.0
PPG-PR 662	7.7	8.0	6.7	7.0	5.3	7.0	7.7	7.0
PST-2ADS	8.0	7.0	6.7	6.7	6.7	6.3	8.0	7.0
PST-2MES1	8.0	7.7	6.3	7.0	6.0	7.0	7.3	7.0
RELIC (PPG-PR 611)	8.0	8.0	6.7	6.7	5.7	6.7	7.7	7.0
ALPHA CENTAURI	8.0	7.7	6.0	7.3	6.0	6.7	7.3	7.0
DLF-PR-3738	8.0	7.0	6.3	7.3	6.7	6.3	7.3	7.0
PST-2BGL	8.0	7.7	6.3	7.0	6.7	6.3	7.0	7.0
20PR10	7.7	8.0	6.3	7.0	5.7	6.3	7.7	7.0
APS	8.0	7.7	6.0	6.7	6.0	6.3	8.0	7.0
DLF-PR-3736	8.0	8.0	6.7	6.3	6.3	6.3	7.0	7.0
PPG-PR 644	8.0	7.7	6.7	6.3	6.0	6.3	7.7	7.0
PISTON	7.7	7.7	6.0	6.7	6.3	6.3	8.0	7.0
PPG-PR 606	8.0	8.0	6.3	6.7	6.3	6.3	7.0	7.0
PPG-PR 661	8.0	8.0	6.3	6.3	6.3	6.7	7.0	7.0
SILETZ	8.0	7.7	6.0	6.7	6.3	6.7	7.3	7.0
ULTRA SPORT (PST-2HAF20)	7.7	8.0	7.0	6.7	5.7	6.3	7.3	7.0
LIGHTSPEED (PST-2DRG)	8.0	8.0	6.3	6.0	6.3	6.3	7.3	6.9
PS4	7.7	7.7	6.3	6.3	6.3	6.3	7.7	6.9
PST-2GDS	7.7	7.7	6.7	6.3	6.0	6.7	7.3	6.9
PVF-SGS5	7.3	7.3	6.3	6.3	6.7	6.7	7.7	6.9
PPG-PR 637	7.7	7.3	6.3	6.3	6.0	7.0	7.7	6.9
DLF-PR-3729	8.0	7.3	6.3	6.3	6.0	6.0	8.0	6.9
PST-2EGY	8.0	7.3	6.3	6.0	6.3	6.7	7.3	6.9
SGP4	7.7	7.3	6.3	7.3	6.0	6.0	7.3	6.9
STELLAR 4GL	8.0	7.3	6.7	6.3	6.0	6.3	7.3	6.9
BSG-PR22	8.0	6.0	7.0	6.3	6.3	7.0	7.0	6.8

TABLE 7.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT BLACKSBURG, VA (IN THE TRANSITION REGION)
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS								
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CJP1R	8.0	7.0	6.3	6.7	6.3	6.3	7.0	6.8
PPG-PR 668	7.7	7.7	6.7	6.7	6.0	5.7	7.3	6.8
SUNDOWN (BY-PS2)	8.0	7.7	6.3	6.3	5.7	6.3	7.3	6.8
DLF-PR-3727	8.0	6.3	7.3	6.7	6.0	6.3	7.0	6.8
HOMERUN LS	8.0	7.7	7.0	6.3	5.3	5.3	7.7	6.8
PPG-PR 647	7.7	7.3	6.3	6.7	5.7	6.7	7.0	6.8
PERFORMANCE (NAI-PR5)	8.0	7.0	6.3	6.7	5.7	5.7	7.7	6.7
QUASAR	8.0	6.7	6.0	6.7	6.0	6.0	7.7	6.7
BAR LP 22191	8.0	7.3	6.0	6.7	5.7	6.0	7.0	6.7
PST-2E6	8.0	6.7	6.7	6.3	5.7	6.3	7.0	6.7
PST-2HFM	8.0	7.7	6.3	6.0	5.3	5.7	7.7	6.7
DARK MATTER	8.0	7.3	6.3	6.0	5.7	6.3	6.7	6.6
BAR LP 22174	8.0	7.7	6.3	5.7	5.7	5.7	7.0	6.6
BAR LP 22263	8.0	6.7	6.7	6.3	5.3	6.3	6.7	6.6
DLF-PR-3726	8.0	7.3	6.0	6.0	5.3	6.0	7.3	6.6
GO-RUS20	7.7	7.3	6.3	6.3	5.3	6.0	7.0	6.6
PPG-PR 646	7.7	8.0	6.0	6.0	5.3	6.0	7.0	6.6
GREENBACK	8.0	6.7	6.3	6.0	5.3	6.3	7.0	6.5
HIGH OCTANE	7.7	7.0	6.0	5.7	5.3	6.7	7.3	6.5
PVF-RPP2	8.0	7.3	6.7	5.7	5.0	6.0	7.0	6.5
DLF-LGT-3066	7.7	6.7	6.3	6.3	5.0	5.3	7.7	6.4
NEXUS DK (SE-DK)	8.0	7.0	6.7	6.3	5.0	5.7	6.3	6.4
RPP3	8.0	6.3	6.0	5.0	6.0	6.3	7.3	6.4
RC20-020	8.0	6.3	5.7	6.3	5.7	5.7	7.0	6.4
BAR LP 22262	7.7	7.3	7.0	5.7	5.7	5.3	5.7	6.3
PST-2SPF	7.3	7.7	6.3	5.7	5.3	5.3	6.7	6.3
MRSL-PR22	8.0	7.3	6.7	5.3	4.7	5.7	6.3	6.3
PPG-PR 658	7.3	7.3	6.0	5.3	5.0	6.0	6.7	6.2
BAR LP 22256	7.3	6.7	6.7	5.7	5.3	6.0	6.0	6.2
FLIGHTLINE (PST-214)	7.7	8.0	6.0	5.0	5.3	5.7	6.0	6.2
PPG-PR 602	7.3	6.7	6.3	5.3	5.7	5.7	6.3	6.2
DLF-PR-3737	8.0	6.7	5.7	5.3	5.0	5.7	6.7	6.1
BRIGHTSTAR SLT	8.0	6.7	6.0	5.3	5.0	5.3	6.0	6.0
KARMA	7.7	6.7	6.0	5.3	5.7	5.0	5.7	6.0
PROMINENT II (TSC-CRS)	7.7	5.3	6.3	5.0	4.7	5.3	6.7	5.9
SEPR-2013	7.7	6.3	5.7	4.3	4.7	5.3	6.7	5.8
LINN	7.3	4.0	5.0	4.3	3.3	3.7	5.3	4.7
LSD VALUE	0.6	1.1	1.1	1.4	1.2	1.5	1.2	0.6
C.V. (%)	4.9	9.1	10.2	13.8	12.8	14.5	10.3	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 8.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT SIX LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2023 DATA

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

NAME	IA1	IN1	MN1	NE1	OH1	ON1	MEAN
PPG-PR 661	5.7	6.1	6.6	6.6	6.2	7.0	6.4
PPG-PR 668	6.1	6.1	6.9	6.2	6.5	6.4	6.4
SILETZ	6.3	5.6	6.1	6.7	6.7	6.7	6.3
PPG-PR 666	6.0	5.9	6.2	6.5	6.5	6.7	6.3
PVF-SGS5	6.0	6.0	6.1	6.6	6.3	6.9	6.3
PPG-PR 637	5.9	6.1	5.9	6.6	6.2	7.0	6.3
PPG-PR 639	5.9	5.7	6.9	6.4	6.1	6.6	6.3
DLF-PR-3729	6.0	5.8	6.8	6.4	6.2	6.3	6.3
PPG-PR 667	6.0	5.8	6.1	6.8	6.3	6.7	6.3
PISTON	5.9	5.9	6.1	6.3	6.4	6.8	6.2
PPG-PR 670	5.9	6.1	6.1	6.8	6.4	6.1	6.2
PPG-PR 602	6.0	5.9	6.1	6.6	6.1	6.6	6.2
PPG-PR 610	6.1	5.3	6.3	6.9	6.1	6.6	6.2
PPG-PR 658	5.9	6.0	6.3	6.4	5.9	6.8	6.2
PPG-PR 606	6.1	5.8	6.5	6.2	6.5	6.1	6.2
DLF-PR-3730	6.2	5.7	6.4	6.1	6.1	6.8	6.2
APS	6.0	6.0	5.9	6.1	6.0	7.2	6.2
DLF-PR-3728	5.6	6.0	6.2	6.4	6.6	6.4	6.2
PPG-PR 647	6.0	5.8	6.0	6.3	5.8	7.3	6.2
DLF-PR-3726	5.8	6.4	6.1	6.2	6.5	6.1	6.2
GO-RUS21	6.4	5.9	6.2	6.3	6.1	6.3	6.2
PPG-PR 620	6.0	5.4	6.1	6.4	6.2	7.0	6.2
RELIC (PPG-PR 611)	6.0	5.6	6.1	6.2	6.0	7.1	6.2
PERFORMANCE (NAI-PR5)	6.0	6.2	5.8	5.9	6.4	6.6	6.2
ULTRA SPORT (PST-2HAF20)	6.0	5.8	6.4	6.7	6.4	5.6	6.1
PPG-PR 662	6.0	5.7	5.9	7.0	6.4	6.0	6.1
STELLAR 4GL	5.8	5.8	6.4	6.0	6.4	6.5	6.1
PST-2ADS	6.2	5.4	6.0	6.5	6.0	6.8	6.1
VORTEX SRT (PPG-PR 665)	6.0	5.9	5.9	6.5	6.2	6.4	6.1
PPG-PR 664	5.9	6.0	6.4	6.7	6.0	5.9	6.1
PST-2HFM	6.0	5.4	6.1	6.5	6.4	6.3	6.1
DLF-PR-3736	6.0	6.4	5.9	6.3	5.9	6.1	6.1
DLF-PR-3738	6.0	6.0	5.7	6.2	6.3	6.3	6.1
FLIGHTLINE (PST-214)	6.0	5.7	6.4	6.5	6.0	5.9	6.1
PPG-PR 643	6.1	5.5	5.8	6.2	6.1	6.6	6.1
20PR10	5.9	5.4	5.7	6.2	6.3	6.9	6.1
CJP1R	6.0	5.9	6.2	6.1	6.1	6.1	6.1
PPG-PR 644	6.0	5.3	6.1	6.1	6.1	6.8	6.1
PVF-RPP2	5.8	5.5	5.6	6.3	6.2	6.9	6.1
SUNDOWN (BY-PS2)	6.0	5.1	6.0	6.6	6.2	6.4	6.0
SGP4	5.9	5.9	6.1	6.2	5.9	6.2	6.0
PST-2MES1	6.1	5.1	6.1	6.4	6.3	6.3	6.0
PPG-PR 642	6.0	5.5	5.9	6.2	6.3	6.2	6.0
GRAY EAGLE SLT (PST-2MEG)	5.9	5.6	6.5	6.1	6.0	6.0	6.0
PPG-PR 663	6.0	5.9	6.1	6.4	6.3	5.4	6.0

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT SIX LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2023 DATA

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

NAME	IA1	IN1	MN1	NE1	OH1	ON1	MEAN
PS4	6.0	5.5	6.1	5.8	6.2	6.6	6.0
PST-2GDS	6.0	5.2	6.4	6.4	6.2	5.9	6.0
PPG-PR 671	5.8	5.4	6.2	6.5	6.2	5.9	6.0
ALPHA CENTAURI	5.7	6.0	6.1	6.0	5.8	6.4	6.0
GO-RUS20	6.0	5.4	5.7	6.5	6.1	6.3	6.0
HOMERUN LS	6.3	5.3	6.6	6.1	5.8	5.9	6.0
NEXUS DK (SE-DK)	5.9	5.4	6.2	6.0	6.1	6.3	6.0
LTP-NR	6.0	5.7	5.4	6.3	6.2	6.1	6.0
LTP-RPP4	6.0	5.3	6.0	6.5	5.9	6.0	6.0
DLF-PR-3735	5.9	5.4	5.8	6.7	5.9	6.1	6.0
PPG-PR 646	6.0	5.5	5.8	6.0	6.7	5.6	5.9
PST-2EGY	5.8	5.4	6.4	6.4	6.3	5.3	5.9
PST-2BGL	6.0	5.6	5.3	6.2	6.0	6.5	5.9
PST-2E6	5.9	5.5	5.9	6.1	6.1	5.9	5.9
QUASAR	5.9	5.5	5.7	5.9	6.3	6.2	5.9
BAR LP 22174	5.7	5.6	5.3	6.3	5.7	6.6	5.9
GO-RUS22	5.8	5.3	5.7	6.1	6.2	6.1	5.9
RPP3	6.0	5.5	5.8	5.9	6.0	6.0	5.8
RC20-020	5.9	5.4	5.8	6.0	6.1	5.5	5.8
BAR LP 22263	6.0	5.5	5.3	5.8	5.6	6.5	5.8
HIGH OCTANE	6.0	5.1	5.6	6.0	6.0	6.0	5.8
DLF-PR-3727	5.8	5.9	5.3	6.3	6.0	5.4	5.8
BAR LP 22191	5.9	5.4	5.1	6.2	6.0	6.0	5.8
MRSI-PR22	5.7	5.1	5.4	6.3	5.6	6.3	5.7
DLF-PR-3737	5.9	5.5	5.3	6.0	5.9	5.7	5.7
DLF-LGT-3066	5.9	5.6	4.8	5.8	6.0	6.1	5.7
PROMINENT II (TSC-CRS)	5.9	5.1	5.8	5.8	6.1	5.5	5.7
LIGHTSPEED (PST-2DRG)	5.9	5.0	6.0	6.0	6.1	5.1	5.7
KARMA	5.7	4.9	5.3	6.1	5.9	6.2	5.7
BAR LP 22256	5.8	5.1	4.9	6.3	6.0	5.8	5.7
DARK MATTER	5.7	4.9	5.2	5.9	5.6	6.6	5.6
GREENBACK	5.8	4.7	5.1	6.2	6.0	6.0	5.6
BSG-PR22	6.0	5.0	5.5	6.1	5.5	5.3	5.6
BAR LP 22262	6.0	4.9	4.9	6.2	5.6	5.8	5.6
BRIGHTSTAR SLT	5.8	4.7	5.0	6.0	5.7	5.9	5.5
PST-2SPF	5.7	4.3	4.8	6.0	5.1	5.6	5.3
SEPR-2013	5.6	4.6	4.6	6.0	5.4	5.2	5.2
LINN	5.7	3.4	2.2	5.0	2.7	4.9	4.0
LSD VALUE	0.3	0.6	0.8	0.5	0.6	1.1	0.3
C.V. (%)	3.3	6.8	8.5	4.8	6.3	11.1	7.3

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 9.

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-PR 644	5.7	6.0	6.3	6.3	7.0	6.7	7.7	8.3	8.3	8.3	8.7	8.0	7.3
DLF-PR-3728	5.3	5.3	6.0	6.0	7.0	6.0	8.7	8.3	8.0	8.0	8.7	7.3	7.1
GRAY EAGLE SLT (PST-2MEG)	6.3	6.7	6.7	6.7	7.0	6.0	7.7	7.3	7.3	7.0	7.7	7.3	7.0
PPG-PR 664	5.7	5.7	6.0	5.7	7.0	6.7	7.7	7.7	8.0	8.0	8.3	7.3	7.0
LTP-RPP4	5.7	5.7	5.7	5.3	7.0	7.0	8.0	8.3	8.0	8.0	7.7	7.0	6.9
PERFORMANCE (NAI-PR5)	6.3	7.0	7.0	6.3	6.3	5.3	7.3	7.7	8.0	7.3	7.7	6.3	6.9
PPG-PR 637	5.0	5.0	5.3	5.3	7.3	5.7	8.3	8.0	8.3	7.7	8.7	7.7	6.9
BSG-PR22	7.3	6.7	6.7	5.7	7.3	6.0	7.7	8.0	7.3	7.3	6.7	5.3	6.8
PPG-PR 643	5.3	5.3	5.7	5.7	7.0	6.7	8.0	7.0	8.0	7.7	7.7	7.3	6.8
PPG-PR 661	5.7	5.7	6.3	6.3	7.0	6.7	7.7	7.7	7.7	7.0	7.0	6.7	6.8
APS	5.3	5.7	5.7	5.7	7.0	7.0	7.7	7.7	7.7	7.0	7.3	7.3	6.8
PPG-PR 639	6.0	6.0	6.0	5.3	7.0	6.0	7.7	7.7	7.7	8.3	7.3	6.0	6.8
RELIC (PPG-PR 611)	5.7	5.0	5.3	5.7	7.3	7.3	8.0	7.7	7.7	8.0	7.0	6.3	6.8
VORTEX SRT (PPG-PR 665)	5.3	5.0	5.7	5.7	7.0	6.7	8.0	8.0	8.0	8.0	7.3	6.3	6.8
PPG-PR 670	5.3	5.3	5.7	5.7	6.3	5.7	8.0	8.0	7.7	8.0	7.7	7.3	6.7
PST-2E6	5.3	5.3	5.7	5.3	7.3	7.0	8.0	7.7	7.3	7.7	7.3	6.7	6.7
PST-2HFM	5.0	5.3	5.7	5.7	6.7	7.0	8.3	8.7	7.3	7.0	7.7	6.3	6.7
STELLAR 4GL	5.7	5.7	5.7	5.7	7.0	6.3	7.0	7.7	7.3	7.7	8.0	7.0	6.7
PPG-PR 646	5.3	5.7	6.0	6.0	7.0	6.0	7.3	7.7	7.7	7.0	8.0	7.0	6.7
PPG-PR 647	6.0	6.7	6.7	5.7	6.3	5.7	7.7	7.3	7.3	7.0	7.3	6.7	6.7
PPG-PR 658	5.3	5.3	5.3	5.3	7.3	6.3	8.0	7.7	7.3	7.3	7.7	7.0	6.7
DLF-PR-3729	5.3	5.0	5.3	5.3	6.7	6.3	8.0	8.0	8.0	7.7	7.7	6.7	6.7
PPG-PR 671	5.3	5.0	6.0	6.0	7.0	5.7	7.7	8.3	7.0	8.3	7.7	6.0	6.7
FLIGHTLINE (PST-214)	5.7	5.7	6.0	6.0	7.0	6.0	8.0	7.3	7.3	6.7	7.7	6.7	6.7
NEXUS DK (SE-DK)	7.3	6.3	6.3	6.0	6.7	5.7	7.3	7.3	7.3	7.3	6.7	5.7	6.7
PPG-PR 606	6.0	5.3	5.7	5.7	7.0	6.3	7.7	8.0	7.3	7.0	7.0	6.7	6.6
PST-2BGL	5.3	5.0	5.3	5.3	7.0	5.3	8.0	7.7	8.0	7.7	7.7	7.3	6.6
PST-2MES1	5.7	5.7	6.0	6.0	7.0	6.3	7.7	8.3	7.0	6.7	7.0	6.3	6.6
PVF-RPP2	5.3	5.3	5.7	5.7	7.3	6.0	7.7	7.3	7.3	7.0	7.7	7.0	6.6
DLF-PR-3727	5.7	5.7	6.0	6.0	6.7	7.0	8.0	8.0	7.3	7.7	6.3	5.0	6.6
RC20-020	5.7	6.0	6.3	6.3	6.3	6.3	7.0	7.3	8.0	7.0	7.0	6.0	6.6
GO-RUS21	6.0	6.0	6.0	5.7	7.0	6.7	8.0	8.0	6.7	8.0	5.7	5.3	6.6
HIGH OCTANE	5.3	5.7	6.0	5.7	6.3	6.7	7.3	7.7	7.7	7.0	7.0	6.7	6.6
CJP1R	5.3	5.3	6.0	6.0	7.0	5.7	7.0	7.0	7.7	6.7	8.0	7.0	6.6
SILETZ	5.7	5.7	6.3	6.3	6.3	5.3	6.7	7.3	7.7	8.0	7.0	6.3	6.6
DLF-PR-3737	5.3	5.3	5.3	5.0	7.0	6.0	7.7	8.0	7.0	8.0	7.7	6.0	6.5
MRSL-PR22	7.3	6.3	6.3	6.0	7.0	6.0	7.3	7.0	7.0	6.7	6.3	5.0	6.5
SGP4	5.3	5.0	5.0	4.7	7.0	6.0	8.0	7.7	7.7	7.3	8.0	6.7	6.5
DLF-PR-3738	5.0	5.3	5.3	5.0	6.7	6.3	7.7	7.7	7.3	7.0	8.0	6.7	6.5
PPG-PR 610	5.7	5.3	5.3	5.0	7.0	6.7	8.0	7.7	7.3	7.3	7.0	5.7	6.5
PPG-PR 663	5.0	5.0	5.7	5.7	7.0	6.7	8.0	8.3	7.0	7.3	6.7	5.7	6.5
PS4	5.0	5.0	5.7	5.7	7.0	6.0	7.3	7.3	8.0	7.0	7.3	6.7	6.5
RPP3	5.3	5.7	5.7	5.7	6.7	5.7	7.3	7.0	7.3	7.3	7.7	6.7	6.5
LTP-NR	5.3	6.0	6.0	5.3	7.0	5.7	8.3	8.0	6.7	7.0	6.7	5.7	6.5
PST-2ADS	4.7	4.7	5.0	5.0	6.3	6.7	8.0	8.3	7.0	7.3	8.0	6.7	6.5
QUASAR	6.0	5.7	5.7	5.7	6.3	5.7	7.0	8.0	7.0	7.3	7.3	6.0	6.5

TABLE 9.
(CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
2023 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
SUNDOWN (BY-PS2)	5.3	5.3	5.7	5.7	7.0	5.3	7.7	7.3	7.7	7.3	7.0	6.3	6.5
HOMERUN LS	5.3	5.0	5.7	5.7	6.7	5.7	7.3	8.0	7.7	7.7	6.3	6.7	6.5
ALPHA CENTAURI	4.7	4.7	5.0	5.0	6.7	6.7	8.3	8.3	7.3	7.3	7.0	6.0	6.4
DLF-PR-3735	4.3	4.7	4.7	4.7	7.0	5.7	7.7	7.7	7.7	7.3	8.3	7.3	6.4
PPG-PR 668	5.3	5.3	5.3	5.0	6.7	6.0	7.7	8.3	6.7	7.7	7.3	5.7	6.4
20PR10	5.3	5.0	6.0	6.0	6.3	6.7	8.0	8.0	6.7	7.3	6.3	5.0	6.4
DARK MATTER	6.7	6.3	6.3	6.3	7.0	5.7	7.0	7.0	6.3	6.7	6.0	5.3	6.4
PPG-PR 667	5.3	5.3	6.0	6.0	6.7	6.0	8.0	7.3	6.7	7.0	7.0	5.3	6.4
PST-2EGY	5.7	5.7	6.0	6.0	6.7	5.7	7.0	8.3	6.7	6.3	6.7	6.0	6.4
PST-2GDS	5.7	5.7	5.7	5.7	6.7	5.3	7.7	7.7	7.0	6.7	7.0	6.0	6.4
PPG-PR 620	4.3	4.3	4.7	4.3	6.3	7.7	8.0	7.3	7.7	7.3	7.7	6.7	6.4
PPG-PR 666	5.7	6.0	6.3	6.0	6.7	5.3	7.7	7.3	6.7	7.3	6.3	5.0	6.4
ULTRA SPORT (PST-2HAF20)	4.7	4.7	5.0	5.0	7.0	6.7	8.0	7.7	7.0	7.0	7.3	6.3	6.4
DLF-PR-3730	5.3	4.3	4.7	4.7	6.3	5.3	8.3	8.3	7.3	7.7	7.7	6.0	6.3
PPG-PR 662	5.0	5.3	5.7	5.7	6.7	6.3	8.0	8.0	7.0	6.7	6.0	5.3	6.3
DLF-PR-3726	6.0	5.7	6.0	6.0	6.0	6.3	7.3	7.3	6.3	7.3	6.0	5.3	6.3
PISTON	5.3	5.7	6.0	6.0	6.3	5.7	7.0	7.0	7.3	6.3	6.3	5.7	6.2
PPG-PR 642	5.3	5.3	5.3	5.3	6.3	5.7	7.0	7.3	7.3	7.3	6.3	6.0	6.2
GO-RUS22	5.0	5.0	5.3	5.3	6.7	6.3	7.7	7.7	7.0	7.3	5.7	5.0	6.2
PPG-PR 602	5.7	5.7	6.0	6.0	6.7	5.0	7.7	7.0	6.3	6.0	6.3	5.7	6.2
DLF-PR-3736	5.0	5.0	5.3	5.3	6.7	5.7	8.3	7.7	6.7	7.0	6.0	4.7	6.1
PROMINENT II (TSC-CRS)	6.7	6.0	6.0	5.3	6.7	5.3	7.0	7.3	6.0	5.7	5.7	5.0	6.1
PVF-SGS5	5.7	5.0	5.0	5.0	6.7	5.3	7.7	7.7	7.0	6.3	6.3	5.0	6.1
GREENBACK	7.0	6.3	6.3	5.7	6.0	5.0	6.7	7.3	6.3	6.3	5.0	4.3	6.0
KARMA	5.0	5.0	5.3	5.3	6.3	6.3	7.3	7.7	6.7	6.3	6.0	5.0	6.0
GO-RUS20	5.7	5.0	5.7	5.7	6.7	6.7	7.7	7.3	5.7	6.3	5.0	4.3	6.0
LIGHTSPEED (PST-2DRG)	5.3	5.3	5.7	5.7	6.7	6.0	7.7	7.0	6.0	5.7	5.3	5.0	5.9
SEPR-2013	4.7	5.0	5.0	4.7	6.7	5.0	7.0	7.0	7.0	7.0	7.0	5.0	5.9
PST-2SPF	6.7	5.7	5.0	4.3	7.3	5.3	7.0	6.7	7.0	5.3	5.0	5.3	5.9
BAR LP 22191	5.3	5.3	5.3	5.0	6.7	7.0	7.7	7.3	5.7	6.0	4.7	4.0	5.8
BRIGHTSTAR SLT	5.0	5.3	5.7	5.7	6.3	6.3	7.0	7.0	6.0	5.7	5.3	4.7	5.8
BAR LP 22263	5.3	5.3	5.3	5.0	6.3	5.7	6.7	6.7	5.7	6.0	5.0	4.7	5.6
BAR LP 22174	4.3	4.3	5.3	5.3	6.7	6.7	6.7	6.7	5.7	6.0	4.7	4.3	5.6
DLF-LGT-3066	4.7	4.7	5.0	5.0	7.0	5.3	7.0	8.0	4.7	5.3	5.0	4.3	5.5
BAR LP 22256	4.3	4.3	4.3	4.3	6.7	6.3	7.0	6.3	5.3	6.0	4.7	4.3	5.3
BAR LP 22262	4.3	4.0	4.3	4.3	6.0	6.0	7.3	6.7	5.7	5.7	4.7	4.0	5.3
LINN	4.0	3.0	3.0	2.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.1
LSD VALUE	0.9	1.2	1.2	1.2	0.8	1.4	1.1	1.3	1.3	1.6	1.4	1.2	0.6
C.V. (%)	10.8	13.3	12.9	13.5	7.8	14.3	8.9	10.6	11.7	14.4	12.7	13.0	6.2

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

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

TABLE 10.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER FAIRWAY CONDITIONS AT THREE LOCATIONS 1/
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	IN2	UT1	VA2	MEAN
PPG-PR 670	5.7	7.3	7.2	6.7
SILETZ	5.6	7.6	6.9	6.7
DLF-PR-3738	5.7	7.2	7.1	6.7
APS	5.5	7.1	7.2	6.6
GO-RUS21	5.7	7.1	7.0	6.6
DLF-PR-3736	5.5	7.1	7.1	6.6
PPG-PR 664	5.4	7.2	7.1	6.6
DLF-PR-3728	5.5	7.0	7.0	6.5
PPG-PR 662	5.7	6.8	7.1	6.5
DLF-PR-3730	5.8	7.1	6.7	6.5
FLIGHTLINE (PST-214)	5.2	7.6	6.7	6.5
PPG-PR 668	5.7	6.4	7.2	6.4
PST-2MES1	5.3	6.8	7.1	6.4
ULTRA SPORT (PST-2HAF20)	4.8	7.4	6.9	6.4
ALPHA CENTAURI	5.4	6.5	7.2	6.4
DLF-PR-3727	5.7	6.6	6.8	6.4
DLF-PR-3726	5.9	6.6	6.7	6.4
PPG-PR 663	5.2	7.1	6.9	6.4
LTP-RPP4	5.3	7.0	6.8	6.3
VORTEX SRT (PPG-PR 665)	5.8	6.3	6.9	6.3
PPG-PR 667	5.0	6.9	7.0	6.3
PPG-PR 606	5.1	7.2	6.6	6.3
PPG-PR 671	5.1	6.9	6.9	6.3
PPG-PR 637	5.3	6.6	7.0	6.3
PPG-PR 642	5.2	6.3	7.3	6.3
PST-2HFM	4.8	7.4	6.6	6.3
PST-2GDS	5.2	7.1	6.6	6.3
PPG-PR 666	5.7	6.2	7.0	6.3
PERFORMANCE (NAI-PR5)	4.9	7.0	6.9	6.3
DLF-PR-3729	5.3	6.8	6.7	6.2
PST-2EGY	5.3	7.0	6.5	6.2
RELIC (PPG-PR 611)	5.2	6.6	6.9	6.2
HOMERUN LS	5.8	6.7	6.3	6.2
PPG-PR 658	5.0	6.9	6.8	6.2
PPG-PR 661	4.8	7.0	6.8	6.2
SUNDOWN (BY-PS2)	5.1	6.8	6.7	6.2
PST-2ADS	5.3	6.6	6.8	6.2
PST-2BGL	5.3	6.8	6.4	6.2
BAR LP 22191	5.3	6.9	6.2	6.1
SGP4	5.2	6.5	6.7	6.1
PS4	5.2	6.5	6.7	6.1
PPG-PR 610	5.2	6.7	6.3	6.1
GO-RUS20	5.4	6.0	6.8	6.1
PVF-RPP2	4.9	6.4	6.9	6.1
20PR10	5.4	6.4	6.3	6.1

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER FAIRWAY CONDITIONS AT THREE LOCATIONS 1/
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	IN2	UT1	VA2	MEAN
PVF-SGS5	5.0	6.4	6.8	6.1
DLF-PR-3735	4.6	6.7	6.8	6.0
STELLAR 4GL	4.8	6.9	6.3	6.0
GRAY EAGLE SLT (PST-2MEG)	4.9	6.2	7.0	6.0
PPG-PR 602	4.8	6.3	6.9	6.0
GO-RUS22	5.0	6.6	6.3	6.0
QUASAR	5.3	6.3	6.4	6.0
LTP-NR	4.8	6.6	6.5	6.0
BAR LP 22174	5.3	6.7	5.9	6.0
PPG-PR 644	4.5	6.3	7.0	5.9
LIGHTSPEED (PST-2DRG)	4.9	6.7	6.2	5.9
GREENBACK	4.8	6.6	6.3	5.9
RPP3	5.0	6.7	6.1	5.9
PPG-PR 647	4.8	6.3	6.6	5.9
BRIGHTSTAR SLT	5.4	6.0	6.2	5.9
DARK MATTER	4.8	6.2	6.6	5.9
PPG-PR 646	4.6	6.3	6.7	5.9
CJP1R	4.5	6.4	6.6	5.8
PST-2E6	4.7	6.4	6.4	5.8
PPG-PR 639	5.1	5.7	6.8	5.8
DLF-PR-3737	5.0	6.2	6.4	5.8
PPG-PR 620	4.7	6.1	6.7	5.8
BAR LP 22256	4.7	6.3	6.4	5.8
HIGH OCTANE	4.9	5.9	6.6	5.8
BAR LP 22262	4.7	6.0	6.6	5.8
PISTON	4.9	6.1	6.3	5.8
PPG-PR 643	4.7	5.9	6.6	5.8
BAR LP 22263	4.2	6.3	6.6	5.7
KARMA	5.0	6.1	6.0	5.7
DLF-LGT-3066	4.9	5.6	6.5	5.6
RC20-020	5.1	5.7	5.9	5.6
SEPR-2013	4.4	6.3	6.1	5.6
PROMINENT II (TSC-CRS)	4.5	5.7	6.4	5.5
MRSI-PR22	4.5	6.2	5.9	5.5
BSG-PR22	4.4	5.9	6.1	5.5
NEXUS DK (SE-DK)	4.3	5.9	6.1	5.5
PST-2SPF	4.1	3.4	5.5	4.4
LINN	3.1	3.2	4.5	3.6
LSD VALUE	0.9	0.8	0.5	0.4
C.V. (%)	10.5	8.1	5.1	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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2023 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/													
NAME	PERCENT ESTABLISHMENT	WEAR TOLERANCE RATINGS			QUALITY RATINGS								
		MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SUNDOWN (BY-PS2)	50.0	5.3	5.7	5.7	6.3	6.3	6.7	6.7	6.3	6.0	6.7	6.0	6.4
LTP-RPP4	56.7	5.3	5.3	5.0	6.3	5.7	6.0	6.3	6.7	7.0	6.7	5.7	6.3
PPG-PR 662	56.7	5.3	5.3	4.7	6.7	6.7	6.7	5.7	6.7	6.3	6.3	5.7	6.3
PVF-RPP2	53.3	5.3	5.7	5.3	6.0	6.3	6.3	7.0	5.7	6.0	6.0	6.0	6.2
APS	50.0	5.3	5.3	5.0	6.3	5.7	6.3	6.3	6.7	6.3	6.3	5.3	6.2
PPG-PR 606	53.3	6.3	6.0	5.7	6.3	6.0	6.3	5.7	6.3	6.3	6.7	6.0	6.2
PPG-PR 647	46.7	5.7	5.3	5.7	6.0	6.0	6.0	6.3	6.3	6.7	6.0	6.0	6.2
PPG-PR 661	60.0	5.7	5.3	5.0	6.0	5.7	6.3	6.7	6.7	6.0	6.3	6.0	6.2
PPG-PR 664	56.7	6.0	5.3	5.3	7.0	6.3	6.7	6.0	6.3	5.7	6.0	5.3	6.2
SILETZ	63.3	5.3	4.7	5.0	6.3	6.7	5.7	6.7	6.3	6.0	6.0	5.3	6.1
PPG-PR 644	50.0	4.7	5.3	5.0	6.7	6.3	6.0	6.0	6.0	6.0	6.3	5.3	6.1
PST-2ADS	53.3	5.0	4.7	4.7	6.0	6.0	7.0	6.0	6.3	6.0	6.3	5.0	6.1
LTP-NR	53.3	5.0	5.3	5.0	6.7	6.3	6.3	6.3	5.3	5.7	5.7	5.3	6.0
STELLAR 4GL	53.3	5.0	4.7	4.7	6.0	6.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0
BSG-PR22	63.3	5.3	5.7	5.7	6.3	5.7	6.0	6.0	6.0	6.3	6.0	6.0	6.0
PPG-PR 671	56.7	5.0	5.0	4.7	6.0	6.0	6.3	5.7	6.0	6.3	6.0	5.3	6.0
PPG-PR 637	43.3	5.3	4.7	5.0	5.7	5.7	6.7	6.0	6.3	6.3	6.7	5.0	6.0
PPG-PR 643	60.0	5.7	5.0	5.3	6.3	6.0	6.0	6.3	6.0	6.3	6.0	5.3	6.0
PPG-PR 663	53.3	5.7	5.0	5.0	6.7	6.3	6.3	6.3	6.0	6.0	5.7	5.0	6.0
PPG-PR 670	46.7	5.3	5.0	5.0	6.7	6.0	6.0	6.0	6.7	6.0	6.0	5.0	6.0
PVF-SGS5	50.0	4.7	4.7	4.3	6.7	6.3	6.3	5.7	5.7	5.3	6.3	5.3	6.0
NEXUS DK (SE-DK)	66.7	4.7	4.3	4.7	6.7	5.7	6.7	6.3	5.3	5.7	5.7	6.0	6.0
BAR LP 22191	56.7	4.0	3.7	4.0	6.3	6.7	6.0	5.3	5.7	6.3	5.7	5.3	5.9
DLF-PR-3726	56.7	5.0	5.0	4.7	6.0	6.0	5.3	5.3	6.0	6.7	6.7	5.0	5.9
GO-RUS21	63.3	5.0	4.3	4.3	6.3	6.3	6.0	6.0	6.0	6.0	5.7	5.0	5.9
PERFORMANCE (NAI-PR5)	60.0	6.0	5.0	5.7	5.7	6.0	6.0	6.7	5.7	5.7	5.7	5.7	5.9
VORTEX SRT (PPG-PR 665)	46.7	4.7	5.0	4.7	6.0	5.7	6.0	5.7	6.3	6.0	6.3	5.3	5.9
PST-2EGY	60.0	4.7	5.0	4.7	6.0	6.0	6.0	6.3	5.3	6.3	6.0	5.3	5.9
GREENBACK	66.7	5.0	5.3	5.3	6.0	5.7	5.7	6.0	5.7	5.7	6.3	5.7	5.8
20PR10	63.3	5.3	5.3	5.3	6.3	6.3	5.7	6.0	6.0	5.7	6.0	4.7	5.8
DLF-PR-3728	50.0	6.0	5.7	5.7	6.0	5.7	5.7	5.3	5.7	6.3	6.3	5.7	5.8
PISTON	46.7	5.3	5.3	4.7	5.7	5.3	5.7	6.0	6.3	6.0	6.0	5.3	5.8
PPG-PR 610	53.3	5.7	5.3	4.3	6.0	5.7	5.0	6.0	6.0	6.3	6.0	5.0	5.8
PPG-PR 666	53.3	5.3	5.7	5.3	6.7	6.0	5.7	5.3	6.3	5.7	5.7	5.3	5.8
PPG-PR 668	56.7	4.7	4.0	4.7	6.3	6.3	6.0	5.7	5.7	5.7	6.0	5.0	5.8
PS4	46.7	5.0	4.7	5.0	6.0	5.7	5.3	5.7	5.7	6.3	6.3	5.0	5.8
SGP4	60.0	4.7	4.3	4.7	5.7	6.0	5.7	5.7	5.7	6.0	6.7	5.3	5.8
DLF-PR-3730	46.7	5.0	4.3	5.0	5.7	5.3	6.0	6.0	5.7	5.7	6.0	5.0	5.7
DLF-PR-3736	50.0	5.0	5.0	5.0	5.7	5.7	6.0	5.3	6.0	6.3	5.7	5.0	5.7
DLF-PR-3738	46.7	4.7	4.7	4.7	5.3	5.3	5.7	5.7	6.3	5.7	6.0	5.3	5.7
GO-RUS22	63.3	5.3	5.3	5.0	5.7	6.0	6.0	5.7	5.3	5.7	5.3	5.7	5.7
PPG-PR 639	53.3	5.7	6.0	5.3	6.3	5.3	5.7	5.3	6.0	5.3	6.0	5.3	5.7
PPG-PR 642	43.3	4.0	5.0	4.3	5.7	5.7	6.0	5.7	5.7	5.3	6.3	5.3	5.7
QUASAR	53.3	4.3	4.3	4.7	5.7	5.7	5.3	6.0	5.3	6.0	6.3	5.0	5.7
ULTRA SPORT (PST-2HAF20)	56.7	5.3	5.3	5.7	5.7	5.7	5.7	5.7	5.7	5.3	6.7	5.3	5.7
ALPHA CENTAURI	43.3	6.0	5.3	5.7	6.3	5.3	5.7	5.7	5.7	5.3	5.7	5.3	5.6
DLF-PR-3729	43.3	4.0	4.3	4.0	6.0	5.7	6.0	6.0	5.7	5.3	5.3	5.0	5.6

TABLE 11.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2023 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/													
NAME	PERCENT ESTABLISHMENT	WEAR MAY	TOLERANCE JULY	RATINGS OCTOBER	APR	MAY	JUN	JUL	QUALITY AUG	RATINGS SEP	OCT	NOV	MEAN
MRSI-PR22	63.3	6.0	5.7	4.7	5.7	5.7	5.3	6.0	6.0	5.3	5.0	5.7	5.6
PPG-PR 602	46.7	5.0	5.3	5.3	5.3	5.7	5.7	5.3	5.7	5.7	6.0	5.3	5.6
PPG-PR 667	50.0	6.0	5.3	5.7	6.0	5.7	6.0	5.7	5.3	5.7	5.3	5.0	5.6
FLIGHTLINE (PST-214)	53.3	5.7	5.3	5.3	6.0	5.7	6.0	5.7	5.7	5.3	5.7	5.0	5.6
PST-2GDS	53.3	5.3	5.0	5.0	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.6
BAR LP 22174	56.7	4.3	4.3	4.0	6.0	5.3	5.7	5.3	5.3	5.7	5.7	4.7	5.5
DLF-PR-3735	46.7	5.0	5.0	5.0	5.3	5.0	5.3	6.0	5.7	5.3	5.7	5.3	5.5
GRAY EAGLE SLT (PST-2MEG)	50.0	4.7	5.0	4.7	5.7	5.3	5.3	5.3	5.3	6.0	5.3	6.0	5.5
KARMA	43.3	5.3	4.7	4.7	5.7	5.3	5.3	5.0	6.3	5.7	5.3	5.0	5.5
PPG-PR 646	43.3	4.3	5.0	4.0	5.7	5.3	5.3	5.7	5.0	5.3	6.3	5.7	5.5
PPG-PR 658	46.7	5.3	5.3	5.3	5.7	5.3	5.3	5.0	6.3	6.0	5.7	5.0	5.5
PST-2BGL	40.0	5.7	5.7	5.7	5.3	5.3	5.0	5.7	5.7	6.0	5.3	5.3	5.5
PST-2E6	46.7	4.3	5.0	4.7	5.3	5.3	5.3	6.0	6.3	5.0	5.3	5.3	5.5
PST-2MES1	53.3	5.0	4.7	5.0	5.7	5.3	5.3	5.0	5.7	6.0	6.0	5.3	5.5
PROMINENT II (TSC-CRS)	60.0	5.0	5.0	5.3	6.3	5.0	5.7	5.7	5.3	5.3	5.0	6.0	5.5
HOMERUN LS	53.3	4.3	4.0	4.0	5.3	5.3	5.0	5.7	5.7	5.3	5.3	5.3	5.4
BAR LP 22262	53.3	5.0	4.7	4.3	6.3	6.0	5.3	5.0	5.3	5.3	5.3	4.3	5.4
DARK MATTER	53.3	5.0	5.7	4.7	5.3	5.3	5.3	5.0	5.3	6.0	5.7	5.3	5.4
HIGH OCTANE	53.3	4.3	4.0	4.3	5.3	5.0	5.0	5.3	5.3	5.7	6.0	5.3	5.4
RELIC (PPG-PR 611)	46.7	5.0	5.3	5.0	5.3	5.3	5.7	5.3	5.3	5.3	5.3	5.3	5.4
PST-2HFM	40.0	5.3	5.7	5.3	6.0	5.3	5.7	5.3	5.0	5.3	5.0	5.7	5.4
RPP3	50.0	4.3	4.3	4.7	5.0	4.7	4.7	5.0	5.7	6.3	6.0	5.7	5.4
RC20-020	53.3	5.0	5.0	5.0	5.7	4.7	4.7	5.0	6.3	5.3	5.7	5.0	5.3
BAR LP 22256	36.7	4.7	5.0	4.7	5.3	5.3	5.3	5.0	5.3	5.3	5.7	4.7	5.3
CJP1R	46.7	4.0	4.0	4.0	5.0	5.0	5.3	5.7	5.7	5.3	5.3	5.0	5.3
DLF-PR-3727	53.3	5.0	5.0	4.7	5.3	5.3	5.3	5.7	5.3	5.3	5.7	4.7	5.3
DLF-PR-3737	43.3	5.0	5.7	5.0	5.7	4.7	5.0	5.3	5.7	5.7	5.7	4.7	5.3
GO-RUS20	56.7	4.3	4.0	4.0	5.7	5.7	5.3	5.7	5.3	5.3	5.3	4.3	5.3
LIGHTSPEED (PST-2DRG)	53.3	4.7	4.7	5.0	5.3	5.3	5.3	5.0	5.0	5.3	5.3	5.7	5.3
BAR LP 22263	50.0	5.0	4.3	4.3	6.3	5.0	5.3	5.0	5.0	5.3	5.0	4.3	5.2
PPG-PR 620	36.7	4.7	4.0	4.7	5.0	4.7	5.0	4.7	5.0	5.3	5.3	5.3	5.0
SEPR-2013	46.7	4.7	5.0	5.3	5.3	4.7	4.7	4.7	5.0	5.3	4.7	5.3	5.0
DLF-LGT-3066	43.3	3.0	3.3	3.0	4.7	5.0	4.7	5.0	5.0	4.7	4.7	5.0	4.8
BRIGHTSTAR SLT	46.7	5.0	4.0	4.7	5.0	4.7	5.0	4.7	4.3	5.0	4.7	4.3	4.7
PST-2SPF	36.7	3.7	3.7	3.7	5.3	4.0	4.0	4.0	4.7	4.7	4.7	4.3	4.5
LINN	66.7	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
LSD VALUE	8.1	1.1	0.9	0.9	0.9	0.8	0.8	0.9	0.8	1.1	0.9	0.8	0.5
C.V. (%)	9.9	12.5	10.9	10.5	9.4	9.2	8.7	9.9	8.9	10.2	9.6	8.7	5.8

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

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

TABLE 12.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING	DENSITY RATINGS SUMMER	FALL	APR	MAY	JUN	JUL	QUALITY AUG	RATINGS SEP	OCT	NOV	MEAN
LIGHTSPEED (PST-2DRG)	5.3	4.7	7.7	6.7	6.7	6.3	6.0	6.3	6.3	6.0	6.0	6.3	6.0	6.2
GREENBACK	4.3	5.3	7.3	5.7	6.7	6.3	6.0	6.0	6.7	6.0	6.0	6.0	5.7	6.1
DLF-PR-3726	5.3	4.7	5.7	7.3	5.7	6.0	6.0	5.7	6.7	6.0	6.0	6.0	6.3	6.1
DLF-PR-3728	5.0	4.3	8.0	7.7	7.0	6.3	6.3	6.0	6.3	6.0	6.0	6.0	6.0	6.1
PPG-PR 646	7.0	4.7	8.0	6.7	6.7	6.0	6.0	6.0	6.3	6.0	6.0	6.3	6.0	6.1
PPG-PR 661	3.7	5.0	8.0	7.3	5.3	6.3	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.1
PS4	3.7	4.7	8.7	5.3	4.7	7.0	6.0	6.7	6.3	6.0	5.3	6.3	5.3	6.1
PST-2HFM	6.7	5.0	6.7	7.7	6.0	6.0	6.3	6.3	6.7	6.0	5.7	6.0	6.0	6.1
RPP3	4.7	4.7	6.7	6.3	5.7	6.3	6.0	6.0	6.3	6.0	6.0	6.3	5.7	6.1
HOMERUN LS	3.0	4.3	6.0	7.3	7.0	5.7	6.0	5.7	7.0	6.0	6.0	5.7	5.7	6.0
LTP-RPP4	5.0	4.3	7.0	5.7	6.3	6.0	6.0	5.7	6.7	6.0	5.7	6.0	6.0	6.0
RC20-020	7.0	5.3	6.7	6.0	5.7	6.0	6.7	5.3	6.0	6.0	5.7	6.0	6.0	6.0
SILETZ	4.0	5.0	7.3	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
STELLAR 4GL	4.0	5.0	7.7	6.7	5.3	6.0	6.0	6.3	6.0	5.7	6.0	6.0	5.7	6.0
20PR10	5.0	4.3	6.3	7.7	6.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
ALPHA CENTAURI	7.7	5.0	7.7	7.0	5.3	6.0	6.0	6.0	6.3	6.0	5.7	6.0	6.0	6.0
APS	5.7	5.0	7.0	7.3	6.3	6.0	6.3	6.0	6.0	6.0	5.3	6.0	6.0	6.0
BAR LP 22174	2.7	4.0	7.3	8.0	5.7	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0
BAR LP 22256	3.3	4.3	7.3	5.3	8.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
BAR LP 22263	4.7	4.7	7.3	7.3	6.0	6.0	6.0	6.0	6.7	6.0	5.7	6.3	5.7	6.0
DLF-PR-3727	5.7	4.7	7.3	7.3	6.3	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DLF-PR-3735	5.0	5.0	7.0	6.0	8.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DLF-PR-3737	6.3	4.7	6.3	6.7	6.7	5.7	6.0	6.0	6.7	6.0	6.0	6.0	6.0	6.0
DLF-PR-3738	5.7	5.0	7.7	7.0	6.0	6.0	6.0	5.7	7.0	6.0	6.0	6.0	5.7	6.0
GO-RUS20	5.7	5.3	6.3	6.7	6.3	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
GO-RUS21	5.7	4.7	7.0	6.7	7.0	6.0	6.0	6.0	6.3	5.7	5.7	6.0	6.0	6.0
GO-RUS22	5.3	4.3	6.3	6.7	8.3	5.7	6.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0
KARMA	5.0	5.0	6.7	5.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.7	6.0
PERFORMANCE (NAI-PR5)	4.3	5.0	7.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0
PISTON	6.0	4.7	7.0	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.0
PPG-PR 602	5.7	5.0	6.7	6.7	6.3	5.7	6.3	5.7	6.0	6.0	6.0	6.0	6.0	6.0
PPG-PR 610	4.3	5.0	6.3	7.3	6.7	6.0	6.0	6.0	6.3	5.7	6.0	6.0	5.7	6.0
RELIC (PPG-PR 611)	6.7	4.7	7.7	6.7	6.3	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
PPG-PR 637	2.3	4.3	7.7	6.3	4.7	5.7	6.0	5.7	6.7	6.0	6.0	6.0	5.7	6.0
PPG-PR 639	4.3	4.3	6.3	6.3	5.7	5.7	6.0	6.0	6.7	6.0	5.7	6.0	6.0	6.0
PPG-PR 642	4.7	4.3	6.7	6.7	5.7	5.7	6.0	6.0	6.3	5.7	6.0	6.0	6.0	6.0
PPG-PR 643	4.0	4.7	6.0	7.0	6.0	5.7	6.0	6.0	6.5	6.0	5.7	6.0	6.0	6.0
PPG-PR 647	4.3	4.3	7.3	7.0	4.7	6.7	6.0	6.0	6.7	6.0	5.3	6.0	5.7	6.0
PPG-PR 658	5.3	5.0	7.0	6.7	4.3	6.3	6.0	6.0	6.3	6.0	5.7	6.0	5.7	6.0
PPG-PR 663	5.7	5.0	7.0	7.0	6.3	6.0	6.0	6.0	6.3	5.7	6.0	5.7	6.0	6.0
PPG-PR 664	6.0	5.0	6.7	6.0	6.3	5.7	6.3	6.0	6.3	6.0	6.0	6.0	5.7	6.0
PPG-PR 665	5.7	4.7	7.0	7.7	6.0	5.7	6.0	6.0	6.3	5.7	6.0	6.0	6.0	6.0
PPG-PR 668	5.7	4.7	6.7	6.0	5.0	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
FLIGHTLINE (PST-214)	6.3	5.0	6.3	8.3	6.7	6.0	6.0	6.0	6.3	6.0	6.0	6.0	5.7	6.0
PST-2BGL	6.7	5.3	6.3	5.7	6.3	6.0	6.3	5.7	6.3	5.3	6.0	6.0	6.0	6.0
PST-2EGY	4.3	4.7	6.7	8.7	8.0	5.7	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0
PST-2GDS	6.0	5.0	6.0	7.3	6.7	6.0	6.0	6.0	6.7	6.0	5.7	6.0	5.7	6.0

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING	DENSITY RATINGS SUMMER	FALL	APR	MAY	JUN	JUL	QUALITY RATINGS AUG	SEP	OCT	NOV	MEAN
QUASAR	7.7	5.0	7.3	6.0	6.0	6.0	6.0	6.0	6.7	6.0	5.7	6.0	6.0	6.0
SEPR-2013	6.0	5.3	6.0	6.3	5.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0
SGP4	3.3	4.7	7.0	6.0	5.7	6.0	6.0	5.7	6.7	6.0	5.7	6.0	6.0	6.0
PROMINENT II (TSC-CRS)	5.0	5.0	6.0	7.0	5.3	5.7	6.3	6.0	6.3	5.7	6.0	5.7	6.0	6.0
ULTRA SPORT (PST-2HAF20)	6.3	4.7	7.0	7.0	7.3	5.7	6.0	6.0	6.3	6.0	6.0	6.0	5.7	6.0
LTP-NR	4.3	5.0	6.7	6.3	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.9
PVF-RPP2	4.3	4.7	7.0	5.7	5.7	5.7	6.0	6.0	6.3	6.0	5.7	6.0	5.7	5.9
BAR LP 22191	5.7	4.3	6.7	5.7	6.3	5.7	6.0	5.7	6.0	6.0	6.0	5.7	6.0	5.9
BAR LP 22262	3.7	4.7	6.3	5.0	6.3	5.7	6.0	5.7	6.3	6.0	5.7	6.0	5.7	5.9
BRIGHTSTAR SLT	5.7	4.7	6.3	6.0	6.7	5.7	5.7	6.0	6.0	5.7	6.0	6.0	6.0	5.9
DLF-PR-3730	6.0	4.7	5.3	8.0	7.0	5.3	6.0	5.7	6.3	5.7	6.0	6.0	6.0	5.9
DLF-PR-3736	6.0	4.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0	5.9
PPG-PR 671	6.3	5.3	6.3	6.7	7.0	6.0	6.0	5.7	6.0	5.7	6.0	6.0	5.7	5.9
HIGH OCTANE	5.0	5.0	5.0	6.3	7.0	5.3	6.0	5.7	6.0	6.0	6.0	6.0	6.0	5.9
PPG-PR 620	3.7	4.3	6.3	6.3	5.7	5.7	5.7	6.0	6.0	5.7	6.0	6.0	6.0	5.9
PPG-PR 662	6.3	5.0	6.0	7.0	6.3	6.0	6.0	6.0	6.0	5.3	6.0	6.0	6.0	5.9
PPG-PR 666	5.7	4.7	5.7	7.0	7.3	5.7	6.0	6.0	6.0	6.0	6.0	5.7	6.0	5.9
PPG-PR 670	4.7	5.0	7.0	7.0	6.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.7	5.9
PST-2ADS	4.3	4.0	6.7	6.3	6.7	6.0	6.0	5.7	6.3	5.7	6.0	5.7	5.7	5.9
PST-2SPF	7.3	5.7	6.0	6.3	5.3	6.0	6.0	6.0	6.3	5.0	6.0	6.0	6.0	5.9
PVF-SGS5	5.7	4.3	7.0	7.0	4.3	5.7	6.3	5.7	6.3	5.7	5.7	6.0	5.7	5.9
NEXUS DK (SE-DK)	6.7	4.7	5.3	6.0	7.0	5.7	6.0	5.7	6.0	5.7	6.0	6.0	6.0	5.9
SUNDOWN (BY-PS2)	4.7	4.3	6.3	6.7	6.3	5.3	5.7	6.0	6.0	6.0	5.7	6.0	6.0	5.8
BSG-PR22	7.7	5.0	5.3	5.3	4.7	5.7	5.7	5.7	6.0	5.7	5.3	6.0	6.0	5.8
CJP1R	4.3	4.7	7.0	6.3	6.0	5.3	6.0	6.0	6.0	6.0	5.7	6.0	5.7	5.8
DARK MATTER	6.0	5.0	5.7	6.3	5.3	5.3	6.0	5.7	6.0	5.7	6.0	6.0	6.0	5.8
DLF-PR-3729	3.7	4.3	4.3	8.3	6.7	5.3	5.7	5.7	6.0	6.0	5.7	6.0	6.0	5.8
GRAY EAGLE SLT (PST-2MEG)	5.3	4.7	6.3	5.7	5.3	5.7	6.0	5.3	6.3	5.7	5.7	5.3	6.0	5.8
MRSI-PR22	7.3	5.7	4.3	6.3	4.0	5.7	6.0	5.7	5.7	5.7	5.7	6.0	6.0	5.8
PPG-PR 606	6.7	5.3	5.0	6.3	5.0	5.3	6.0	6.0	6.0	5.7	5.7	6.0	6.0	5.8
PPG-PR 644	4.7	4.3	5.3	5.7	6.3	5.3	5.7	5.7	6.0	5.7	6.0	6.0	6.0	5.8
PPG-PR 667	6.0	5.0	5.3	7.3	5.3	5.7	6.0	5.7	6.0	5.7	6.0	6.0	5.7	5.8
PST-2E6	4.7	4.7	5.7	7.0	5.0	5.7	5.7	6.0	6.3	5.7	5.7	5.7	6.0	5.8
PST-2MES1	7.0	5.0	4.7	6.7	5.3	5.3	6.0	5.7	6.0	5.7	5.7	6.0	6.0	5.8
DLF-LGT-3066	4.0	4.7	3.7	5.0	4.7	5.0	5.7	6.0	6.3	5.3	6.0	5.3	6.0	5.7
LINN	3.0	3.0	4.0	6.7	6.7	5.0	5.3	5.3	6.0	6.0	6.0	6.0	6.0	5.7
LSD VALUE	3.2	1.0	5.6	4.3	9.4	2.4	1.3	2.1	1.9	1.1	1.9	0.7	1.4	0.8
C.V. (%)	29.0	10.5	23.7	18.5	28.7	10.0	5.3	7.3	7.6	5.7	6.4	4.1	5.7	3.0

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 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	PERCENT GROUND COVER		APRIL-NOVEMBER				QUALITY RATINGS		PERCENT ESTABLISHMENT	
	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER	OCT 2022	NOV 2022	4 WEEKS	7 WEEKS
LIGHTSPEED (PST-2DRG)	78.0	92.0	72.0	62.3	66.7	71.3	4.3	4.3	52.3	73.7
GREENBACK	76.0	90.7	62.7	58.7	70.7	59.7	4.3	5.0	62.0	78.3
DLF-PR-3726	57.7	73.7	76.0	83.7	58.7	78.3	4.0	4.0	43.3	68.7
DLF-PR-3728	82.0	90.7	81.3	79.7	72.3	41.7	5.0	5.0	70.3	84.7
PPG-PR 646	84.7	83.7	75.0	68.0	68.3	26.0	4.0	5.0	52.0	84.7
PPG-PR 661	82.0	88.3	81.3	68.7	51.7	60.7	4.7	4.0	50.7	79.0
PS4	91.0	96.7	56.7	77.7	45.3	43.0	4.3	5.3	60.7	88.0
PST-2HFM	70.3	83.0	80.0	76.3	57.0	58.3	5.0	5.0	67.7	85.3
RPP3	69.7	84.7	71.7	67.7	60.0	58.7	4.7	5.3	60.0	85.7
HOMERUN LS	58.3	86.0	80.7	78.3	72.3	39.7	5.0	4.3	64.3	80.3
LTP-RPP4	72.0	84.7	65.0	67.7	66.0	45.7	4.3	5.0	46.0	84.7
RC20-02O	64.3	81.7	69.7	71.0	57.0	48.3	4.3	4.7	56.0	79.0
SILETZ	77.3	89.3	75.0	68.3	61.7	72.3	5.3	5.3	69.7	85.0
STELLAR 4GL	76.0	90.0	74.0	67.0	55.0	39.0	5.0	6.0	70.3	90.7
20PR10	66.3	87.3	81.7	81.0	71.0	56.7	5.0	5.0	61.0	84.3
ALPHA CENTAURI	78.7	80.7	76.3	78.7	57.3	67.7	5.0	5.0	62.7	89.7
APS	72.7	81.0	78.3	73.7	64.3	56.0	4.7	4.3	65.3	85.3
BAR LP 22174	73.3	84.7	83.0	82.7	59.7	30.7	4.3	4.7	64.3	86.7
BAR LP 22256	72.7	95.3	54.3	70.3	83.3	55.3	4.0	4.7	44.0	70.0
BAR LP 22263	75.7	89.0	80.7	79.3	62.7	28.3	5.0	5.0	67.3	85.0
DLF-PR-3727	78.3	86.7	81.3	73.3	65.7	34.0	5.0	5.0	62.0	86.7
DLF-PR-3735	75.7	90.0	67.0	74.0	88.3	70.0	5.3	4.3	58.7	82.3
DLF-PR-3737	63.0	76.0	68.0	77.7	70.3	64.0	4.3	4.7	56.3	84.0
DLF-PR-3738	78.3	86.0	75.0	86.7	61.0	61.3	5.0	5.0	68.0	82.3
GO-RUS20	64.3	79.3	71.7	73.3	65.7	70.7	5.0	5.3	65.3	81.7
GO-RUS21	70.3	76.0	71.3	62.0	72.7	58.7	5.7	4.7	80.3	84.0
GO-RUS22	67.7	84.3	71.7	61.3	86.7	53.0	4.0	4.7	40.3	76.7
KARMA	71.0	87.3	63.0	72.7	66.0	54.3	5.0	5.0	56.3	85.7
PERFORMANCE (NAI-PR5)	68.3	83.7	63.7	68.7	64.7	63.3	4.3	4.3	51.3	73.3
PISTON	71.7	79.3	72.7	68.0	64.0	62.0	4.3	5.7	56.7	85.3
PPG-PR 602	67.7	88.7	73.7	78.7	62.7	44.7	4.3	5.0	59.0	75.3
PPG-PR 610	65.7	89.7	81.3	76.7	72.3	48.3	4.7	4.3	56.7	80.7
RELIC (PPG-PR 611)	77.7	84.7	77.0	91.7	65.7	45.3	4.7	4.7	59.7	86.7
PPG-PR 637	80.0	90.3	70.0	68.3	46.3	17.0	4.7	5.7	64.7	88.7
PPG-PR 639	64.7	82.7	67.7	79.7	58.0	47.3	3.7	5.0	50.0	81.0
PPG-PR 642	69.3	90.7	71.0	78.0	59.7	41.3	4.7	5.0	57.3	87.0
PPG-PR 643	61.7	90.0	74.3	83.3	61.0	47.0	4.7	4.0	57.7	70.7
PPG-PR 647	77.3	88.3	76.0	61.3	46.0	33.3	5.0	4.7	65.0	83.3
PPG-PR 658	72.7	88.0	71.7	78.0	41.3	47.7	4.7	4.7	54.3	80.0
PPG-PR 663	74.0	84.7	73.0	56.0	63.0	66.7	5.3	4.7	62.0	86.3
PPG-PR 664	68.7	79.7	65.3	68.3	62.3	34.3	5.0	5.0	69.7	89.3
VORTEX SRT (PPG-PR 665)	73.0	83.0	83.7	77.0	63.0	49.7	5.3	5.0	81.3	92.0
PPG-PR 668	68.7	79.0	67.7	69.3	46.3	56.0	5.3	5.0	79.7	89.7
FLIGHTLINE (PST-214)	65.3	79.3	89.3	82.3	68.7	44.0	4.3	4.0	43.3	67.0
PST-2BGL	64.7	76.7	61.0	45.7	65.7	56.7	4.0	4.0	45.3	61.7
PST-2EGY	68.0	84.3	91.3	83.0	84.3	60.0	4.3	5.0	60.7	82.3
PST-2GDS	61.0	79.0	81.0	67.0	68.7	36.7	4.0	4.7	52.3	86.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/									
NAME	APRIL	PERCENT MAY	GROUND JULY	COVER AUGUST	APRIL-NOVEMBER OCTOBER	NOV	QUALITY RATINGS OCT 2022	NOV 2022	PERCENT ESTABLISHMENT 4 WEEKS 7 WEEKS
QUASAR	78.7	82.7	65.3	71.0	62.3	44.0	5.0	5.3	53.3 89.3
SEPR-2013	64.3	78.0	68.0	53.0	54.7	71.7	4.7	5.0	60.7 77.7
SGP4	72.3	91.3	67.3	67.3	56.0	59.3	4.0	5.0	53.7 82.3
PROMINENT II (TSC-CRS)	59.7	83.7	73.7	53.3	56.3	42.7	5.0	4.3	66.3 73.0
ULTRA SPORT (PST-2HAF20)	69.7	81.3	77.3	72.3	73.3	59.7	4.7	4.3	48.7 73.0
LTP-NR	67.0	85.0	67.3	66.7	69.3	37.3	4.3	5.0	54.3 86.0
PVF-RPP2	74.7	90.0	62.0	60.0	60.7	50.0	6.0	5.3	67.0 84.7
BAR LP 22191	67.3	70.0	61.0	78.3	65.7	45.7	3.7	5.0	55.7 82.0
BAR LP 22262	67.7	89.3	57.0	72.3	65.7	54.7	4.3	4.0	40.3 67.3
BRIGHTSTAR SLT	64.0	73.3	65.7	63.0	67.7	72.3	5.3	4.7	72.3 81.3
DLF-PR-3730	54.0	77.0	84.0	80.7	73.3	57.0	5.0	4.3	73.0 77.7
DLF-PR-3736	62.3	76.0	65.7	71.7	59.3	40.7	4.7	4.7	58.0 77.0
PPG-PR 671	63.3	73.7	75.0	65.7	74.0	52.0	6.0	5.3	78.3 89.3
HIGH OCTANE	51.0	85.7	69.3	72.0	71.0	58.0	5.0	4.7	60.3 66.7
PPG-PR 620	62.0	81.3	68.3	74.7	60.3	54.7	4.3	4.7	49.0 81.3
PPG-PR 662	62.0	78.0	75.0	73.3	66.0	72.0	4.7	5.0	52.3 82.0
PPG-PR 666	56.0	71.7	75.7	76.7	71.7	46.0	4.3	4.7	59.3 84.0
PPG-PR 670	70.0	87.0	74.7	78.7	65.7	63.3	5.0	5.7	73.0 92.0
PST-2ADS	66.0	86.7	69.7	72.0	69.7	51.7	3.7	4.7	46.7 71.7
PST-2SPF	57.3	73.3	70.7	53.3	56.3	66.0	4.3	4.7	58.0 74.0
PVF-SGS5	71.0	78.0	78.0	66.0	44.0	42.0	4.7	5.0	66.3 84.7
NEXUS DK (SE-DK)	53.0	77.7	66.3	60.7	72.3	24.3	5.3	5.0	78.3 87.0
SUNDOWN (BY-PS2)	62.7	71.7	72.0	74.3	64.3	47.0	4.3	5.0	50.0 77.7
BSG-PR22	53.3	58.7	59.0	50.7	44.0	39.0	5.3	4.7	70.7 84.0
CJP1R	71.0	88.0	74.3	75.3	57.3	49.0	4.7	4.3	55.7 73.7
DARK MATTER	55.0	77.7	69.7	63.0	54.0	53.7	5.0	5.0	59.3 77.0
DLF-PR-3729	42.3	70.7	91.0	81.0	67.7	76.3	4.7	4.0	58.3 73.3
GRAY EAGLE SLT (PST-2MEG)	62.0	76.0	64.7	58.0	53.7	46.0	4.0	4.3	37.7 70.0
MRS1-PR22	40.7	64.0	68.3	42.7	39.0	57.7	4.3	5.0	55.0 62.7
PPG-PR 606	49.3	71.3	65.3	67.0	49.7	42.0	4.3	4.0	40.3 54.3
PPG-PR 644	49.7	68.7	65.0	64.3	64.3	47.0	5.7	4.0	66.7 80.0
PPG-PR 667	52.0	72.7	78.0	78.7	51.0	43.3	5.0	5.3	71.3 86.7
PST-2E6	60.3	75.7	77.7	64.0	50.0	64.0	4.3	5.7	52.0 86.3
PST-2MES1	42.3	54.0	71.3	62.3	54.0	49.3	5.0	5.3	68.0 89.7
DLF-LGT-3066	35.7	55.7	54.0	53.0	45.0	53.7	4.3	4.0	38.7 58.0
LINN	37.7	60.7	76.0	62.0	70.7	71.0	4.3	5.0	62.7 86.3
LSD VALUE	72.8	62.2	48.8	34.4	117.9	73.6	3.5	3.9	53.0 75.8
C.V. (%)	27.6	18.4	18.0	19.2	33.5	39.8	18.5	17.5	26.9 18.8

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 13.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT WOOSTER, OH 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	SPRING DENSITY	PERCENT GROUND SPRING	COVER FALL	PERCENT ESTABLISHMENT	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
SGP4	7.3	3.3	6.0	78.3	50.0	20.0	6.7	7.3	5.7	4.7	5.0	5.0	4.7	5.0	4.3	5.4
PPG-PR 658	7.0	3.7	6.7	76.7	51.7	25.0	6.7	7.0	5.3	5.3	5.3	5.0	5.0	4.7	3.7	5.3
SILETZ	7.0	4.7	6.7	88.3	46.7	33.3	7.3	7.0	5.3	4.7	4.7	4.7	4.3	4.3	3.3	5.1
DLF-PR-3729	6.7	3.7	6.0	78.3	55.0	18.3	6.0	6.7	4.3	5.3	5.3	4.7	4.7	4.7	4.3	5.1
VORTEX SRT (PPG-PR 665)	7.0	3.7	6.7	81.7	43.3	20.0	6.7	7.0	5.7	5.3	4.7	4.3	4.0	4.3	3.0	5.0
PST-2EGY	7.0	3.3	6.7	68.3	51.7	20.0	5.7	6.3	5.0	4.7	5.3	5.0	5.0	4.3	3.7	5.0
BAR LP 22174	6.7	3.3	6.3	78.3	50.0	20.0	6.0	7.0	6.0	4.3	4.3	4.3	4.3	4.0	3.3	4.9
BAR LP 22263	7.3	3.7	5.7	80.0	50.0	23.3	6.0	6.3	4.7	4.3	5.0	4.3	4.3	5.0	3.7	4.9
DLF-PR-3736	7.0	3.7	7.0	81.7	55.0	25.0	6.3	6.3	5.0	5.0	4.7	4.7	4.7	4.3	3.3	4.9
PPG-PR 606	8.0	2.7	6.3	71.7	45.0	28.3	6.7	6.3	5.7	5.0	4.7	4.7	4.7	4.3	2.7	4.9
PS4	7.0	4.3	6.7	70.0	48.3	18.3	6.0	6.3	5.0	4.7	5.0	4.7	4.3	4.7	3.3	4.9
RC20-02O	7.0	3.3	6.0	80.0	41.7	18.3	6.7	6.7	5.0	5.0	4.3	4.0	3.7	4.3	3.3	4.8
PPG-PR 610	7.3	3.3	7.0	71.7	45.0	21.7	5.3	6.3	5.0	5.3	4.7	4.3	4.0	4.3	4.0	4.8
APS	6.7	3.0	6.7	68.3	40.0	16.7	5.3	5.7	5.7	5.3	4.7	4.0	3.7	4.0	3.7	4.7
PVF-RPP2	6.7	2.7	6.0	76.7	46.7	16.7	6.0	6.7	5.0	4.7	4.7	4.0	4.0	4.0	2.7	4.6
GRAY EAGLE SLT (PST-2MEG)	7.7	3.3	6.3	68.3	40.0	16.7	5.7	6.0	4.7	5.0	4.7	4.3	4.0	4.0	3.3	4.6
PPG-PR 602	7.0	3.0	6.7	70.0	36.7	16.7	5.7	6.0	5.3	5.0	4.3	4.0	3.7	3.7	3.3	4.6
ULTRA SPORT (PST-2HAF20)	7.0	2.3	6.3	65.0	43.3	13.3	5.3	6.0	5.0	4.3	4.7	4.7	4.0	4.0	3.0	4.6
HOMERUN LS	6.7	4.0	7.3	86.7	45.0	26.7	7.3	5.7	4.3	4.7	4.0	3.7	3.7	3.7	3.7	4.5
PPG-PR 639	7.3	3.7	6.7	70.0	31.7	18.3	6.3	7.0	5.3	4.3	4.0	4.0	3.3	3.3	2.7	4.5
BAR LP 22191	7.0	4.3	6.0	73.3	44.0	21.7	6.0	6.0	5.0	3.7	4.0	4.0	4.0	4.0	3.0	4.4
CJPIR	7.0	4.3	6.3	70.0	40.0	18.3	5.3	6.0	5.0	5.3	4.0	3.7	3.7	3.7	3.3	4.4
PPG-PR 671	7.3	5.0	7.3	80.0	35.3	35.0	6.7	8.0	6.0	3.3	3.3	3.3	3.3	3.3	2.3	4.4
STELLAR 4GL	7.0	2.3	6.0	63.3	40.0	11.7	4.7	5.7	5.0	4.3	4.0	4.0	3.7	4.0	3.3	4.3
ALPHA CENTAURI	7.3	4.0	6.0	81.7	30.0	23.3	6.7	6.7	5.3	4.0	3.7	3.3	3.0	3.0	3.0	4.3
BAR LP 22256	7.3	2.7	6.0	68.3	33.3	11.7	5.0	5.7	4.7	4.3	4.3	4.0	3.0	4.0	3.7	4.3
DLF-PR-3726	7.0	4.0	6.7	73.3	30.0	23.3	6.3	6.7	5.0	3.7	4.0	3.3	3.3	3.3	2.7	4.3
DLF-PR-3730	7.0	4.7	6.0	75.0	42.3	20.0	6.3	6.0	5.0	3.0	3.7	4.0	4.0	4.0	3.0	4.3
PERFORMANCE (NAI-PR5)	6.3	4.7	7.0	91.7	23.3	30.0	8.0	7.7	5.0	3.3	3.3	3.0	2.7	3.3	2.3	4.3
PPG-PR 644	6.7	3.0	6.0	78.3	36.7	21.7	6.0	6.7	5.0	4.0	3.3	3.7	3.7	3.3	3.0	4.3
PST-2ADS	6.3	4.0	6.7	80.0	30.0	21.7	6.7	6.3	4.7	5.0	4.3	3.7	2.7	3.0	2.7	4.3
PVF-SGS5	7.0	3.7	6.3	68.3	36.7	18.3	5.7	6.3	4.7	4.0	3.7	3.7	3.7	4.3	3.0	4.3
QUASAR	6.3	5.7	7.0	78.3	33.3	31.7	7.0	6.0	4.7	3.7	4.0	3.7	3.7	3.3	2.7	4.3
SEPR-2013	8.0	3.7	6.0	75.0	38.3	21.7	5.7	5.7	5.0	4.3	4.0	3.7	3.7	3.7	3.0	4.3
GO-RUS20	6.3	3.3	6.7	76.7	30.0	20.0	6.3	6.3	5.3	4.0	3.3	3.3	3.3	2.7	3.0	4.2
GO-RUS21	7.0	4.3	7.0	83.3	33.7	33.3	7.0	6.3	4.7	3.7	3.3	3.3	3.3	3.3	2.7	4.2
20PR10	7.0	3.7	6.3	85.0	30.0	18.3	6.3	6.7	5.7	3.3	3.3	3.3	3.0	2.7	2.7	4.1
DLF-PR-3737	7.3	3.3	6.0	66.7	35.0	15.0	5.0	5.3	4.7	4.0	4.3	4.0	3.7	3.0	3.0	4.1
MRSI-PR22	7.3	4.0	5.7	71.7	40.0	30.0	5.3	5.7	3.7	4.3	4.3	4.0	3.0	3.3	3.3	4.1
PPG-PR 637	6.7	3.0	6.7	71.7	33.7	13.3	5.3	6.0	5.0	4.0	3.7	3.7	3.3	3.0	2.7	4.1
PPG-PR 662	7.0	4.0	7.0	76.7	28.7	20.0	6.3	6.7	5.0	3.7	3.3	3.3	3.0	3.0	2.7	4.1
DLF-PR-3727	7.0	3.0	5.7	71.7	30.3	18.3	6.0	6.3	5.3	4.0	3.3	3.3	3.0	2.7	2.3	4.0
DLF-PR-3728	7.0	3.3	6.3	61.7	30.0	23.3	5.0	5.7	5.0	4.0	3.7	3.7	3.3	3.3	2.7	4.0
PPG-PR 667	7.3	3.0	6.3	70.0	28.3	16.7	5.3	6.0	5.3	4.3	4.0	3.0	2.7	3.0	2.7	4.0
PST-2MES1	7.0	3.7	6.3	65.0	34.0	18.3	5.0	6.0	4.3	4.0	4.0	3.7	3.3	3.0	2.3	4.0
BRIGHTSTAR SLT	7.0	3.7	7.0	58.3	26.7	16.7	4.3	5.3	4.7	3.7	4.3	3.7	3.0	3.0	2.7	3.9
DLF-PR-3738	6.7	4.3	7.3	75.0	23.7	25.0	5.7	6.0	4.7	4.0	3.3	3.0	2.7	2.7	2.7	3.9

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT WOOSTER, OH 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	SPRING DENSITY	PERCENT SPRING	GROUND COVER FALL	PERCENT ESTABLISHMENT	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
RELIC (PPG-PR 611)	6.7	3.3	6.3	80.0	30.3	15.0	6.7	6.3	4.7	3.3	3.3	3.0	3.0	2.3	2.3	3.9
PPG-PR 646	7.0	4.0	6.3	78.3	24.0	23.3	6.0	6.3	4.7	4.0	3.3	3.0	2.7	2.3	2.3	3.9
DARK MATTER	8.0	5.0	5.7	73.3	27.3	25.0	6.0	6.3	4.3	3.7	3.3	2.7	2.3	3.0	2.3	3.8
PISTON	7.0	4.0	6.0	71.7	23.3	20.0	6.0	6.0	5.0	3.3	3.0	3.0	2.7	3.0	2.0	3.8
PST-2E6	7.0	2.3	6.3	48.3	35.3	13.3	4.3	5.3	4.3	4.3	3.7	3.7	3.3	2.7	2.7	3.8
PST-2GDS	6.7	2.7	6.0	51.7	41.7	10.0	4.0	4.7	4.3	4.0	3.7	3.3	3.3	3.7	3.0	3.8
BAR LP 22262	6.7	2.3	6.0	73.3	25.3	13.3	5.3	6.0	4.7	3.7	3.3	3.0	2.7	2.3	2.7	3.7
KARMA	6.7	3.3	6.3	83.3	22.0	25.0	7.0	6.7	4.7	3.3	3.0	2.3	2.3	2.0	2.0	3.7
PPG-PR 620	6.7	2.3	6.3	65.0	34.0	16.7	5.0	5.3	4.7	3.3	3.3	3.3	3.0	3.0	2.3	3.7
PPG-PR 642	7.0	3.7	6.7	75.0	26.7	16.7	5.7	6.0	4.7	3.0	3.0	3.0	3.0	2.7	2.7	3.7
PPG-PR 643	7.0	3.3	6.0	60.0	28.3	16.7	5.0	6.0	4.7	2.7	3.0	3.0	3.0	3.3	2.3	3.7
PPG-PR 647	7.0	3.0	6.3	63.3	35.3	18.3	5.0	6.3	4.7	3.0	3.3	3.0	3.0	3.3	2.0	3.7
PPG-PR 664	7.0	4.0	6.3	78.3	23.7	16.7	7.0	6.7	5.3	2.3	2.7	2.7	2.3	2.7	2.0	3.7
PPG-PR 668	7.0	3.3	6.0	76.7	19.0	26.7	6.0	6.0	5.3	3.0	3.3	2.7	2.3	2.7	2.0	3.7
SUNDOWN (BY-PS2)	7.0	4.3	6.0	61.7	33.3	16.7	5.0	5.3	4.0	3.0	3.3	3.3	3.3	2.7	2.0	3.6
LTP-NR	7.0	4.0	6.3	81.7	22.3	21.7	6.7	6.7	4.3	2.7	2.7	2.3	2.3	2.7	1.7	3.6
BSG-PR22	7.7	4.7	6.0	71.7	27.0	26.7	5.7	5.3	5.0	3.3	3.3	3.0	2.3	2.3	2.3	3.6
GO-RUS22	7.0	4.0	6.0	68.3	24.0	16.7	5.7	5.7	4.7	3.0	3.0	2.7	2.7	2.7	2.3	3.6
PPG-PR 670	7.3	4.0	7.0	75.0	20.3	20.0	6.3	6.3	6.0	3.0	2.7	2.3	2.0	2.3	1.7	3.6
FLIGHTLINE (PST-214)	7.0	3.3	5.7	65.0	23.3	15.0	5.0	5.0	4.7	3.3	3.7	3.0	2.3	3.0	2.3	3.6
PST-2HFM	7.0	2.7	6.7	70.0	18.3	11.7	5.7	6.0	4.7	3.0	3.0	2.3	2.3	2.7	2.3	3.6
DLF-LGT-3066	6.7	3.0	6.3	50.0	35.7	10.0	4.0	4.7	4.0	3.0	3.7	3.3	3.0	3.0	3.0	3.5
PPG-PR 663	7.3	4.3	6.7	78.3	18.7	26.7	6.3	6.3	5.7	2.7	2.3	2.3	2.0	2.0	1.7	3.5
NEXUS DK (SE-DK)	7.7	4.3	6.0	85.0	17.3	21.7	7.3	6.3	4.7	2.7	3.0	2.3	1.7	2.0	1.7	3.5
PPG-PR 666	7.0	3.3	6.7	71.7	24.7	15.0	5.3	6.3	5.3	2.3	2.7	2.3	2.3	2.3	1.7	3.4
LIGHTSPEED (PST-2DRG)	7.0	2.3	6.3	65.0	22.3	11.7	5.3	6.3	4.3	2.7	2.7	2.3	2.3	2.3	2.3	3.4
LTP-RPP4	7.0	3.7	6.7	85.0	10.0	23.3	7.0	6.0	4.3	2.7	2.3	2.0	1.7	2.0	1.7	3.3
PPG-PR 661	7.0	3.7	7.0	71.7	21.0	16.7	5.7	5.7	4.3	3.0	2.7	2.3	2.3	1.7	2.0	3.3
RPP3	6.7	3.7	6.7	65.0	25.0	16.7	5.3	5.7	4.0	2.3	2.7	3.0	2.7	2.3	1.7	3.3
GREENBACK	7.3	5.3	6.3	73.3	18.7	25.0	6.0	6.0	4.0	2.7	2.3	2.3	2.0	2.0	1.7	3.2
DLF-PR-3735	7.0	2.7	6.3	61.7	21.7	10.0	4.7	5.3	4.7	2.7	2.7	2.7	2.3	2.3	1.7	3.2
LINN	3.7	6.0	6.0	78.3	34.0	26.7	3.3	4.3	2.3	3.3	3.3	3.3	3.3	2.7	3.0	3.2
PST-2BGL	7.0	2.0	6.7	43.3	23.7	6.7	3.7	4.7	4.3	2.7	2.7	2.7	2.7	2.3	2.0	3.1
HIGH OCTANE	7.0	3.0	6.0	60.0	19.0	13.3	5.3	5.3	3.3	2.3	2.3	2.3	2.3	2.3	1.7	3.0
PST-2SPF	7.7	3.3	6.7	43.3	25.3	26.7	3.3	4.0	3.7	3.0	2.7	2.7	2.7	2.3	2.3	3.0
PROMINENT II (TSC-CRS)	7.3	3.3	6.0	68.3	14.0	16.7	4.7	5.3	3.7	2.3	2.3	2.3	1.7	1.7	1.7	2.9
LSD VALUE	0.6	2.6	1.3	28.3	56.5	25.8	2.7	1.6	1.5	3.1	3.8	3.6	2.9	3.9	2.6	2.2
C.V. (%)	5.5	29.7	8.6	17.4	50.3	44.0	20.7	13.3	15.5	32.5	33.5	34.3	35.2	39.5	35.8	20.5

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 14.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
OVERSEEDED INTO A BERMUDA FAIRWAY AT PALM DESERT, CA 1/
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/													
NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	PERCENT OCT 2	GREEN COVER APRIL 3	JAN	FEB	QUALITY RATINGS						
							MAR	APR	OCT	NOV	DEC	MEAN	
PPG-PR 658	7.0	71.7	99.0	93.3	8.0	9.0	8.3	9.0	6.3	8.3	8.7	8.2	
DLF-PR-3726	7.3	70.0	99.0	97.3	7.7	8.7	8.3	8.7	6.3	8.0	8.7	8.0	
GREENBACK	7.3	76.7	99.0	96.7	7.0	9.0	8.3	9.0	7.0	7.3	8.3	8.0	
PPG-PR 602	7.3	63.3	99.0	96.0	7.3	8.3	8.3	8.7	6.7	8.0	8.3	8.0	
RELIC (PPG-PR 611)	7.0	63.3	99.0	97.7	8.0	8.7	8.7	8.3	6.7	7.3	8.3	8.0	
PPG-PR 670	7.3	70.0	98.7	98.0	7.7	9.0	8.7	8.7	6.3	7.3	8.0	8.0	
FLIGHTLINE (PST-214)	8.3	66.7	99.0	96.3	8.0	9.0	8.0	8.3	6.7	7.7	8.3	8.0	
PVF-SGS5	7.3	55.0	99.0	97.3	7.3	9.0	8.7	9.0	6.7	7.0	8.7	8.0	
20PR10	7.3	61.7	99.0	94.7	7.7	8.3	8.3	8.7	6.3	7.7	8.3	7.9	
BRIGHTSTAR SLT	6.7	65.0	99.0	97.3	7.3	8.3	8.0	9.0	7.0	7.3	8.0	7.9	
BSG-PR22	9.0	63.3	99.0	94.7	7.3	9.0	8.7	9.0	6.7	7.0	7.7	7.9	
SUNDOWN (BY-PS2)	7.0	65.0	99.0	68.3	7.7	8.7	8.3	8.0	7.0	7.3	8.0	7.9	
CJP1R	7.7	66.7	98.7	98.7	7.7	9.0	8.0	9.0	6.7	6.7	8.0	7.9	
DLF-PR-3727	7.0	78.3	99.0	94.3	7.7	8.3	7.7	8.3	6.7	7.7	8.7	7.9	
MRSI-PR22	8.7	61.7	99.0	96.3	7.7	9.0	8.3	9.0	6.7	6.3	8.3	7.9	
PPG-PR 620	7.7	68.3	96.7	96.3	7.7	8.7	8.3	8.7	6.3	7.3	8.3	7.9	
PPG-PR 639	7.3	71.7	99.0	97.0	7.3	8.7	8.0	9.0	6.7	7.0	8.3	7.9	
PPG-PR 643	7.3	70.0	98.7	90.7	7.3	9.0	9.0	8.0	6.0	7.3	8.3	7.9	
PST-2SPF	8.0	63.3	98.7	89.7	6.7	9.0	8.7	8.7	6.3	7.7	8.3	7.9	
QUASAR	8.0	71.7	99.0	94.3	8.0	8.7	8.3	8.3	6.7	7.3	8.0	7.9	
ULTRA SPORT (PST-2HAF20)	8.3	75.0	99.0	95.0	7.0	8.7	8.0	9.0	6.7	7.7	8.0	7.9	
BAR LP 22191	6.3	63.3	99.0	94.3	7.3	8.7	8.0	8.7	6.7	7.3	8.0	7.8	
DLF-PR-3730	7.7	75.0	93.7	96.0	7.3	8.7	8.3	8.7	6.0	7.0	8.7	7.8	
DLF-PR-3736	6.7	63.3	99.0	94.0	7.0	8.3	8.0	9.0	7.0	7.3	8.0	7.8	
DLF-PR-3737	7.3	68.3	99.0	96.7	7.3	8.3	8.3	8.3	7.0	7.3	7.7	7.8	
GO-RUS20	7.0	70.0	98.0	97.0	7.0	8.7	8.3	9.0	5.7	7.3	8.3	7.8	
PPG-PR 642	7.0	76.7	99.0	98.3	7.3	8.7	8.0	9.0	7.0	7.0	7.7	7.8	
PPG-PR 647	6.7	75.0	99.0	91.3	7.0	9.0	8.3	8.3	7.0	7.0	8.0	7.8	
PPG-PR 662	6.7	66.7	99.0	98.3	7.3	8.3	8.3	8.3	6.7	7.7	7.7	7.8	
PPG-PR 663	8.0	61.0	99.0	97.7	7.3	8.7	8.0	8.7	6.7	7.3	8.0	7.8	
PPG-PR 668	6.7	60.0	99.0	95.3	7.3	9.0	8.3	8.0	6.7	7.0	8.3	7.8	
PS4	8.3	60.0	91.7	98.0	7.3	8.7	8.7	9.0	6.0	7.0	8.0	7.8	
PST-2E6	7.0	68.3	99.0	95.0	7.0	9.0	8.3	8.7	7.0	7.0	7.7	7.8	
ALPHA CENTAURI	7.3	73.3	97.3	95.7	7.3	8.7	8.7	8.3	6.3	7.0	7.7	7.7	
APS	7.3	60.0	98.3	95.0	7.0	8.7	8.7	8.7	6.0	6.7	8.0	7.7	
BAR LP 22174	6.7	68.3	99.0	95.3	7.3	8.7	7.7	8.3	6.7	7.3	8.0	7.7	
DARK MATTER	8.3	73.3	98.3	96.7	7.3	8.7	8.7	8.7	6.3	6.7	7.7	7.7	
PPG-PR 671	6.7	60.0	99.0	92.0	7.3	8.7	8.3	8.3	6.7	7.0	7.7	7.7	
LTP-NR	6.7	71.7	99.0	96.7	6.7	8.3	8.3	9.0	6.7	7.0	7.7	7.7	
LTP-RPP4	7.3	75.0	96.3	95.0	6.7	8.7	8.3	8.7	6.3	7.3	8.0	7.7	
PISTON	7.7	65.0	99.0	86.7	7.3	8.3	8.3	8.0	6.7	7.3	7.7	7.7	
PPG-PR 637	7.3	65.0	99.0	92.0	6.7	8.7	8.3	8.3	6.7	7.0	8.0	7.7	
PPG-PR 646	7.3	68.3	99.0	95.7	7.0	8.3	8.7	8.3	6.3	7.3	7.7	7.7	
PPG-PR 661	7.3	71.7	99.0	97.0	7.0	8.7	8.3	8.7	7.0	7.0	7.3	7.7	
VORTEX SRT (PPG-PR 665)	7.3	73.3	99.0	95.7	6.7	8.7	8.7	8.3	7.0	6.7	7.7	7.7	
PPG-PR 666	6.7	65.0	99.0	97.7	7.3	8.7	8.3	8.7	7.0	7.0	7.0	7.7	

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
OVERSEED INTO A BERMUDA FAIRWAY AT PALM DESERT, CA 1/
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/												
NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	PERCENT OCT 2	GREEN COVER APRIL 3	JAN	FEB	QUALITY RATINGS					
					MAR	APR	OCT	NOV	DEC	MEAN		
PPG-PR 667	6.7	61.7	98.7	94.7	7.0	8.7	8.3	8.7	6.3	7.3	7.7	7.7
PST-2BGL	7.7	75.0	98.7	96.7	7.3	8.3	8.7	8.7	6.7	7.0	7.3	7.7
LIGHTSPEED (PST-2DRG)	7.7	75.0	99.0	95.0	7.0	8.3	8.3	8.3	6.7	7.3	8.0	7.7
PST-2EGY	7.0	61.7	99.0	96.3	7.3	9.0	8.0	8.7	6.7	6.7	7.3	7.7
PST-2GDS	7.3	63.3	99.0	97.0	6.7	8.7	8.7	8.3	6.3	7.0	8.0	7.7
PST-2HFM	8.0	66.7	98.7	98.0	6.7	9.0	8.7	8.7	6.3	7.3	7.3	7.7
PVF-RPP2	8.0	66.7	99.0	92.3	7.0	8.7	8.7	8.7	6.3	6.3	8.0	7.7
NEXUS DK (SE-DK)	8.3	70.0	98.0	97.3	7.0	8.7	9.0	8.7	6.3	6.3	8.0	7.7
PROMINENT II (TSC-CRS)	7.7	75.0	99.0	97.0	7.0	8.3	8.7	8.7	7.0	6.0	8.0	7.7
DLF-PR-3738	7.7	68.3	99.0	90.7	6.0	9.0	8.7	8.3	7.0	7.0	7.3	7.6
GO-RUS21	7.7	75.0	98.7	92.0	7.7	8.3	7.7	8.0	6.3	7.3	8.0	7.6
KARMA	7.3	73.3	97.3	95.0	7.0	8.0	8.0	8.3	6.3	7.3	8.3	7.6
PERFORMANCE (NAI-PR5)	7.3	60.0	99.0	95.7	7.3	8.3	8.0	8.3	6.0	7.3	7.7	7.6
PPG-PR 610	7.0	79.3	99.0	95.7	6.7	8.7	8.7	8.3	6.7	7.0	7.3	7.6
RPP3	7.0	76.7	99.0	96.0	6.3	8.7	8.7	8.3	7.0	7.0	7.3	7.6
DLF-LGT-3066	6.3	63.3	96.0	97.0	7.0	8.3	8.0	8.7	6.0	6.7	8.0	7.5
DLF-PR-3728	6.7	78.3	99.0	95.7	6.0	8.3	8.0	9.0	6.3	6.7	8.0	7.5
GO-RUS22	7.3	81.7	99.0	92.3	6.7	8.3	8.3	9.0	6.7	6.3	7.0	7.5
PPG-PR 664	8.0	51.7	99.0	93.0	6.0	8.7	8.7	9.0	6.7	6.7	6.7	7.5
SILETZ	6.7	70.0	99.0	95.3	6.7	8.0	8.3	8.7	6.7	6.7	7.3	7.5
STELLAR 4GL	7.3	55.0	99.0	96.7	7.0	8.3	8.3	9.0	6.7	6.0	7.0	7.5
BAR LP 22262	6.0	81.7	99.0	85.7	7.0	8.0	8.0	8.0	6.7	6.7	7.7	7.4
BAR LP 22263	6.7	66.7	99.0	96.7	7.3	8.0	8.3	8.3	6.0	6.7	7.3	7.4
PPG-PR 606	7.0	73.3	99.0	94.7	6.3	7.7	9.0	8.3	6.7	6.7	7.3	7.4
PST-2ADS	7.0	82.7	99.0	96.0	6.7	8.3	8.0	8.0	6.7	6.7	7.7	7.4
SEPR-2013	8.3	63.3	99.0	76.7	6.3	8.7	8.3	7.7	6.7	6.7	7.7	7.4
DLF-PR-3729	7.0	69.3	99.0	92.3	6.7	8.0	8.3	8.0	6.3	6.7	7.0	7.3
DLF-PR-3735	7.3	65.0	84.7	97.3	6.3	8.3	9.0	8.3	6.0	6.3	7.0	7.3
GRAY EAGLE SLT (PST-2MEG)	7.0	78.3	98.3	98.3	6.7	7.7	9.0	8.7	6.0	6.3	7.0	7.3
SGP4	6.7	78.3	99.0	83.7	6.3	8.7	8.7	8.0	6.7	6.0	7.0	7.3
BAR LP 22256	7.0	70.0	99.0	81.3	6.3	8.0	8.0	8.0	7.0	6.3	7.0	7.2
HOMERUN LS	6.3	80.0	88.3	96.0	6.3	8.3	8.3	8.7	6.0	6.0	6.7	7.2
PPG-PR 644	6.3	66.7	99.0	97.0	7.0	8.0	7.7	8.3	6.0	6.7	7.0	7.2
PST-2MES1	7.3	68.3	99.0	76.7	6.7	8.7	8.3	7.3	6.3	6.7	6.7	7.2
RC20-020	7.3	66.7	99.0	96.3	6.3	6.7	7.7	8.3	7.0	7.0	7.7	7.2
HIGH OCTANE	7.7	47.7	99.0	77.7	6.0	8.3	8.7	7.7	6.7	5.7	6.3	7.0
LINN	5.3	71.7	99.0	95.0	6.0	7.3	7.0	8.0	6.3	5.7	6.0	6.6
LSD VALUE	2.0	50.1	14.0	43.9	5.9	1.7	1.4	1.6	2.7	3.9	3.6	1.4
C.V. (%)	11.6	17.6	3.7	10.4	14.9	7.1	6.2	6.5	9.1	13.0	12.1	5.4

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

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

TABLE 15.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
OVERSEEDDED INTO A BERMUDA FAIRWAY AT GAINESVILLE, FL 1/
2023 DATA

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

NAME	QUALITY	QUALITY RATINGS			MEAN
	DEC 2022	JAN	FEB	MAR	
PPG-PR 670	4.0	7.0	8.0	5.7	6.9
PST-2MES1	4.0	6.3	8.3	6.0	6.9
BAR LP 22174	4.5	6.5	8.5	5.5	6.8
DLF-PR-3736	3.7	7.0	8.0	5.3	6.8
PPG-PR 671	4.0	6.7	8.0	5.7	6.8
RC20-020	3.7	6.3	8.0	6.0	6.8
20PR10	4.3	7.0	7.7	5.3	6.7
PERFORMANCE (NAI-PR5)	3.5	7.0	8.0	5.0	6.7
RELIC (PPG-PR 611)	3.7	6.7	8.0	5.3	6.7
PPG-PR 620	3.0	6.7	7.7	5.7	6.7
FLIGHTLINE (PST-214)	3.7	6.3	8.0	5.7	6.7
DLF-PR-3726	4.3	6.7	7.3	5.7	6.6
DLF-PR-3728	3.3	6.3	7.7	5.7	6.6
PPG-PR 642	3.0	6.3	7.7	5.7	6.6
PPG-PR 668	3.3	6.3	8.0	5.3	6.6
PPG-PR 662	3.5	6.5	8.0	5.0	6.5
HOMERUN LS	4.3	7.0	7.7	4.7	6.4
PPG-PR 610	3.3	6.0	7.7	5.7	6.4
PST-2ADS	3.7	6.7	7.3	5.3	6.4
CJP1R	3.7	5.7	7.7	5.7	6.3
GO-RUS22	3.5	6.0	7.5	5.5	6.3
KARMA	4.7	6.0	7.7	5.3	6.3
PPG-PR 639	3.0	6.0	7.5	5.5	6.3
PPG-PR 644	4.0	6.3	7.3	5.3	6.3
PPG-PR 646	3.5	6.5	8.0	4.5	6.3
SGP4	4.0	6.5	8.0	4.5	6.3
ALPHA CENTAURI	3.3	5.7	7.7	5.3	6.2
BRIGHTSTAR SLT	4.0	6.0	7.7	5.0	6.2
BSG-PR22	4.0	6.0	7.5	5.0	6.2
DLF-PR-3738	3.5	6.0	7.5	5.0	6.2
GREENBACK	4.0	6.3	7.3	5.0	6.2
LTP-NR	3.3	6.3	7.7	4.7	6.2
LTP-RPP4	4.0	6.0	7.3	5.3	6.2
PISTON	3.7	6.3	7.7	4.7	6.2
PPG-PR 647	2.7	6.3	7.7	4.7	6.2
APS	3.3	6.0	7.3	5.0	6.1
GO-RUS20	2.3	5.0	8.0	5.3	6.1
PPG-PR 661	3.3	6.7	7.7	4.0	6.1
PPG-PR 666	4.0	6.3	8.0	4.0	6.1
PS4	3.3	6.7	7.0	4.7	6.1
PST-2BGL	3.7	6.0	7.7	4.7	6.1
LIGHTSPEED (PST-2DRG)	3.7	6.0	8.0	4.3	6.1
PVF-SGS5	3.7	6.0	8.0	4.3	6.1
BAR LP 22191	3.0	5.7	8.0	4.3	6.0
DLF-LGT-3066	4.7	6.0	7.7	4.3	6.0
DLF-PR-3735	3.0	6.0	8.0	4.0	6.0
PPG-PR 606	4.0	6.5	7.5	4.0	6.0

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
OVERSEEDDED INTO A BERMUDA FAIRWAY AT GAINESVILLE, FL 1/
2023 DATA

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

NAME	QUALITY	QUALITY RATINGS			MEAN
	DEC 2022	JAN	FEB	MAR	
PPG-PR 643	3.0	6.0	7.5	4.5	6.0
PST-2EGY	3.5	6.5	7.0	4.5	6.0
PVF-RPP2	2.7	5.3	8.0	4.7	6.0
SEPR-2013	3.0	6.5	7.5	4.0	6.0
PPG-PR 602	3.7	6.0	7.3	4.3	5.9
PPG-PR 667	4.3	6.3	7.3	4.0	5.9
PROMINENT II (TSC-CRS)	3.0	5.3	7.3	5.0	5.9
ULTRA SPORT (PST-2HAF20)	3.3	6.3	7.3	4.0	5.9
DARK MATTER	3.0	5.5	7.0	5.0	5.8
GO-RUS21	3.7	6.0	8.0	3.3	5.8
GRAY EAGLE SLT (PST-2MEG)	4.7	6.0	7.3	4.0	5.8
PPG-PR 663	3.0	5.7	7.0	4.7	5.8
VORTEX SRT (PPG-PR 665)	4.0	6.5	7.0	4.0	5.8
PST-2GDS	4.0	6.0	8.0	3.5	5.8
NEXUS DK (SE-DK)	3.5	6.5	7.5	3.5	5.8
BAR LP 22262	3.0	5.3	7.3	4.3	5.7
BAR LP 22263	3.5	5.5	7.0	4.5	5.7
DLF-PR-3727	4.0	5.7	7.7	3.7	5.7
DLF-PR-3737	3.0	4.7	7.7	4.7	5.7
HIGH OCTANE	3.7	6.0	7.0	4.0	5.7
PPG-PR 658	3.3	5.3	7.7	4.0	5.7
PST-2E6	3.0	5.7	7.7	3.7	5.7
QUASAR	4.0	5.7	7.3	4.0	5.7
SUNDOWN (BY-PS2)	3.3	6.0	7.3	3.3	5.6
PPG-PR 637	2.3	5.7	7.3	3.7	5.6
PPG-PR 664	2.5	5.5	6.5	4.5	5.5
MRSL-PR22	3.3	5.3	6.7	4.0	5.3
BAR LP 22256	3.0	5.3	6.7	3.7	5.2
PST-2HFM	3.0	5.5	7.5	2.5	5.2
SILETZ	3.0	5.0	7.3	3.3	5.2
STELLAR 4GL	3.7	5.7	6.7	3.3	5.2
PST-2SPF	2.3	4.7	6.7	4.0	5.1
RPP3	2.3	4.7	7.3	3.3	5.1
DLF-PR-3730	3.0	5.0	7.3	2.3	4.9
LINN	2.0	4.0	5.5	5.0	4.8
DLF-PR-3729	2.0	4.0	6.7	3.3	4.7
LSD VALUE	5.1	4.4	3.8	5.1	2.1
C.V. (%)	30.2	17.3	10.5	28.3	11.8

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

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

TABLE 16.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS					
	JAN 6 CONTROL	JAN 6 SALT	JAN 13 CONTROL	JAN 13 SALT	JAN 20 CONTROL	JAN 20 SALT
DLF-LGT-3066	17.3	18.3	21.7	29.7	34.0	32.7
BAR LP 22256	21.0	19.3	29.3	32.3	37.7	36.7
GO-RUS22	21.3	22.0	32.7	33.0	38.0	38.0
GRAY EAGLE SLT (PST-2MEG)	29.7	22.0	34.0	32.0	38.3	40.0
PERFORMANCE (NAI-PR5)	21.7	19.0	28.0	34.7	38.0	37.0
PPG-PR 610	25.7	21.7	35.7	33.0	37.3	36.7
PPG-PR 639	23.3	26.3	29.7	34.0	37.3	38.0
PPG-PR 663	28.0	19.3	36.3	31.0	38.0	34.0
PPG-PR 668	28.3	22.0	34.3	35.0	40.0	39.3
SGP4	24.0	19.0	34.7	32.3	37.3	35.3
ALPHA CENTAURI	21.7	18.0	30.7	29.3	37.3	34.0
BRIGHTSTAR SLT	20.0	20.3	33.3	33.7	38.7	34.0
DLF-PR-3737	18.7	16.0	26.3	28.3	36.3	34.7
GO-RUS21	26.0	20.3	33.0	32.7	36.7	37.0
NEXUS DK (SE-DK)	25.3	22.3	34.7	32.0	38.3	36.7
PPG-PR 647	29.0	20.0	31.0	33.3	37.0	39.0
PPG-PR 670	20.7	21.0	30.0	32.7	35.7	35.3
RELIC (PPG-PR 611)	27.0	21.3	31.3	34.3	38.0	40.3
VORTEX SRT (PPG-PR 665)	30.7	22.7	32.3	33.3	39.3	39.7
BAR LP 22191	25.0	21.7	32.0	32.0	37.0	39.0
BAR LP 22262	24.7	18.0	31.0	31.3	37.3	37.0
DLF-PR-3735	19.0	16.3	30.3	29.0	37.3	36.0
LIGHTSPEED (PST-2DRG)	20.7	21.7	30.7	34.0	37.3	38.7
LTP-RPP4	21.0	20.0	33.7	35.7	37.0	37.0
PPG-PR 661	31.0	23.0	33.7	35.3	39.0	38.7
ULTRA SPORT (PST-2HAF20)	23.7	18.7	32.3	32.0	38.7	37.0
BAR LP 22263	20.0	17.7	30.0	32.3	37.0	34.0
PST-2HFM	30.7	20.0	35.7	35.0	36.7	38.7
DARK MATTER	30.0	19.0	29.3	33.7	36.0	40.0
20PR10	27.7	21.7	32.3	36.7	37.3	38.7
CJP1R	20.7	20.7	29.3	28.7	35.0	36.7
DLF-PR-3726	27.0	20.0	32.3	31.0	37.7	34.7
DLF-PR-3727	26.3	19.0	30.3	32.3	37.0	37.7
DLF-PR-3730	23.3	22.7	33.7	33.7	38.3	37.0
DLF-PR-3736	22.0	20.7	31.0	29.0	38.7	37.3
PPG-PR 671	26.7	22.3	29.3	31.7	38.3	36.7
GREENBACK	27.0	19.7	30.7	33.3	38.0	37.3
KARMA	21.0	18.0	33.0	33.7	38.0	35.0
PPG-PR 646	29.3	21.7	33.3	35.0	39.0	37.0
PPG-PR 664	16.0	19.3	30.7	35.0	38.7	36.0
PPG-PR 666	21.0	18.3	33.3	34.7	38.7	36.7
PST-2ADS	23.7	23.3	30.3	33.3	37.7	35.3
PST-2GDS	22.7	20.0	34.0	35.7	38.0	37.3
PST-2MES1	28.0	19.7	32.7	35.3	37.3	38.3
PPG-PR 637	27.3	19.0	31.7	31.3	38.7	38.0
PPG-PR 662	23.7	22.0	32.0	31.0	37.7	35.7
PPG-PR 667	24.7	18.7	33.0	33.0	38.3	36.7

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS					
	JAN 6 CONTROL	JAN 6 SALT	JAN 13 CONTROL	JAN 13 SALT	JAN 20 CONTROL	JAN 20 SALT
PS4	23.0	18.0	29.0	27.3	37.7	32.3
APS	25.3	19.3	35.0	32.7	37.7	36.0
GO-RUS20	28.0	20.0	31.0	34.3	37.0	37.7
MRSI-PR22	28.7	22.0	28.7	35.3	34.3	37.0
PPG-PR 602	24.7	19.0	34.0	29.7	39.0	35.3
PPG-PR 643	23.7	18.7	36.0	35.7	39.0	37.3
PST-2BGL	22.7	21.7	36.7	31.0	39.0	35.7
SUNDOWN (BY-PS2)	18.3	18.3	28.0	26.7	36.7	33.7
PST-2SPF	24.3	17.7	30.0	31.0	37.7	37.7
BAR LP 22174	28.0	22.3	33.7	35.3	38.0	38.3
DLF-PR-3738	22.7	21.3	29.0	35.0	37.3	36.3
HIGH OCTANE	26.3	18.3	31.0	30.3	37.0	34.7
PPG-PR 644	29.7	20.0	28.0	35.0	39.7	39.0
LTP-NR	24.0	21.7	28.7	32.3	38.7	38.0
PPG-PR 606	24.3	21.7	33.3	31.7	38.0	37.0
PPG-PR 642	22.7	19.0	33.0	35.3	37.7	39.3
PST-2EGY	23.3	21.3	30.7	31.3	37.3	37.0
PVF-SGS5	23.0	19.3	31.3	33.3	36.3	37.7
SILETZ	31.7	20.3	32.0	32.3	39.0	36.7
DLF-PR-3728	23.7	20.0	32.3	32.3	36.7	38.7
PISTON	22.3	21.0	35.7	34.3	37.7	38.3
QUASAR	23.7	19.7	32.3	32.0	36.7	36.7
STELLAR 4GL	29.7	20.3	39.0	33.7	39.7	38.0
HOMERUN LS	27.0	26.0	31.0	36.0	39.3	39.7
PVF-RPP2	23.7	18.3	25.3	32.0	38.0	36.3
RPP3	19.3	17.0	26.3	32.3	37.7	36.7
BSG-PR22	29.7	21.0	31.3	33.7	37.0	38.3
DLF-PR-3729	20.0	15.7	24.0	27.3	31.7	32.0
PROMINENT II (TSC-CRS)	27.3	21.0	29.7	30.0	36.7	36.7
SEPR-2013	18.7	17.3	29.3	32.0	37.0	34.7
PPG-PR 658	23.7	18.7	33.3	32.3	38.7	38.3
FLIGHTLINE (PST-214)	25.7	22.3	35.3	32.7	39.3	38.3
PST-2E6	24.0	19.7	27.7	32.0	36.7	37.7
RC20-020	23.0	21.3	33.0	32.0	39.3	36.3
LINN	21.3	21.7	27.7	32.0	37.0	33.7
PPG-PR 620	21.7	20.0	27.3	29.0	35.0	37.0
LSD VALUE	11.0	7.9	11.4	7.9	5.7	6.6
C.V. (%)	19.5	14.1	13.5	9.4	5.2	6.9

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

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

3/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO 10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

QUALITY RATINGS FOR THE CONTROL 3/

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	8.0	8.0	8.0	8.7	8.3	7.7	5.7	5.0	4.7	4.3	5.7	5.7	6.0	6.3	5.7
BAR LP 22256	8.0	8.0	8.3	8.3	8.3	7.7	6.0	5.3	5.3	5.7	6.0	6.3	6.0	6.3	6.0
GO-RUS22	8.0	8.0	8.3	8.7	8.0	7.7	6.3	4.7	4.7	4.7	5.3	5.7	6.0	6.3	5.7
GRAY EAGLE SLT (PST-2MEG)	8.0	8.0	8.7	9.0	8.3	7.7	5.7	5.7	6.0	6.3	6.3	6.3	6.0	6.7	6.3
PERFORMANCE (NAI-PR5)	8.0	8.0	9.0	9.0	8.0	7.7	6.0	5.0	5.0	5.3	6.0	5.7	6.3	6.7	5.7
PPG-PR 610	8.0	8.0	8.0	8.3	8.0	7.7	5.7	4.7	5.3	5.7	6.0	6.3	6.7	6.7	5.7
PPG-PR 639	8.0	8.0	8.7	8.3	7.7	7.7	5.7	4.3	4.3	5.3	5.0	5.3	5.7	7.0	6.3
PPG-PR 663	8.0	8.3	8.7	8.7	8.7	8.0	6.0	4.7	4.3	4.3	5.0	4.7	5.7	6.3	5.7
PPG-PR 668	8.0	8.0	8.0	9.0	8.3	8.0	6.3	5.7	5.3	5.7	5.7	5.7	5.7	7.0	5.7
SGP4	8.3	8.3	8.3	9.0	8.3	7.7	6.3	5.0	4.3	5.7	6.3	6.0	6.0	6.7	6.0
ALPHA CENTAURI	8.0	8.3	8.3	8.7	8.3	8.0	6.3	6.0	6.3	6.0	6.3	6.3	6.7	6.7	6.0
BRIGHTSTAR SLT	8.0	8.0	8.3	9.0	8.3	8.0	6.3	5.7	7.0	6.0	6.0	5.7	5.7	6.3	6.0
DLF-PR-3737	8.0	8.3	8.3	8.7	7.7	7.7	6.0	5.0	4.3	5.0	5.7	5.7	6.0	6.7	6.0
GO-RUS21	8.0	8.0	8.7	8.3	7.7	8.0	6.0	4.7	4.3	4.7	5.3	5.3	6.0	6.7	6.0
NEXUS DK (SE-DK)	8.3	8.0	8.3	8.3	7.3	7.7	5.3	4.3	4.0	4.0	5.0	5.0	5.3	6.7	6.0
PPG-PR 647	8.0	8.0	8.0	8.7	8.3	8.0	6.3	5.7	5.3	5.7	6.3	5.7	6.0	6.7	6.0
PPG-PR 670	8.3	8.0	8.7	8.3	8.3	8.0	6.7	5.3	5.3	5.3	5.3	5.7	5.7	6.3	6.0
RELIC (PPG-PR 611)	8.0	8.0	8.3	9.0	8.0	7.3	5.7	4.7	4.7	5.0	5.3	5.3	6.0	6.7	6.0
VORTEX SRT (PPG-PR 665)	8.0	8.0	8.3	9.0	8.0	7.3	6.0	5.3	6.0	6.0	6.7	6.3	6.3	6.0	6.0
BAR LP 22191	8.0	8.0	8.3	9.0	8.3	7.7	6.3	5.3	5.3	5.0	5.7	5.3	6.0	6.7	5.7
BAR LP 22262	8.0	8.0	8.3	8.7	7.7	7.3	5.3	4.3	4.3	5.0	5.3	5.7	6.7	6.0	5.7
DLF-PR-3735	8.0	8.3	8.3	8.7	8.3	8.0	6.3	5.3	5.7	5.7	6.0	5.7	6.0	6.3	5.7
LIGHTSPEED (PST-2DRG)	8.0	8.3	8.0	8.7	7.7	8.0	6.0	5.3	5.7	5.7	5.7	6.0	6.0	7.0	5.7
LTP-RPP4	8.0	8.0	8.7	8.3	7.7	7.7	5.7	5.3	5.3	5.7	6.0	6.0	6.3	6.3	5.7
PPG-PR 661	8.0	8.0	8.0	8.7	7.7	7.7	5.7	4.7	4.7	5.7	5.7	5.0	5.7	7.0	6.3
ULTRA SPORT (PST-2HAF20)	8.3	8.0	8.7	9.0	8.3	8.0	6.3	5.3	5.7	6.3	6.3	7.0	6.7	6.7	5.7
BAR LP 22263	8.0	8.0	8.7	8.7	8.3	8.0	6.0	5.7	5.3	5.3	5.3	5.7	5.7	6.0	6.3
PST-2HFM	8.0	8.0	8.7	9.0	7.7	8.0	5.7	6.0	5.7	5.3	5.7	6.0	6.0	7.3	6.3
DARK MATTER	8.0	8.0	8.7	8.7	8.3	7.7	7.0	6.0	5.7	5.0	5.7	4.7	5.7	6.3	6.0
20PR10	8.0	7.7	8.3	8.7	7.7	7.3	5.7	4.7	5.0	5.3	6.0	5.7	6.0	6.0	6.0
CJP1R	8.0	8.0	8.3	8.7	7.7	7.3	5.7	4.3	4.3	5.0	5.3	5.0	5.3	6.0	5.3
DLF-PR-3726	8.0	8.0	8.3	9.0	8.3	7.7	6.3	5.3	6.0	5.7	6.3	5.7	6.0	6.3	6.0
DLF-PR-3727	8.3	8.0	8.7	8.3	8.0	7.7	6.0	4.7	5.0	6.0	6.3	6.0	6.3	7.0	6.0
DLF-PR-3730	8.0	8.0	8.7	8.3	7.7	8.0	6.0	5.0	5.0	5.3	6.7	6.3	6.7	7.3	6.0
DLF-PR-3736	8.0	8.0	8.3	8.7	8.0	7.7	6.0	5.0	5.3	5.7	6.0	5.7	5.7	6.7	6.0
PPG-PR 671	8.3	8.0	8.7	9.0	8.3	7.7	6.3	5.3	5.7	5.3	6.3	5.7	6.0	6.7	6.0
GREENBACK	8.0	8.0	8.7	8.7	8.0	7.0	5.7	4.3	5.3	5.0	5.3	6.0	7.0	6.7	6.0
KARMA	8.0	7.7	8.0	9.0	8.0	7.7	5.7	4.7	4.3	4.7	4.7	5.0	5.7	6.3	6.0
PPG-PR 646	8.0	8.0	8.3	9.0	7.7	7.7	6.0	4.7	5.0	4.7	5.0	5.3	5.7	6.3	6.0
PPG-PR 664	8.0	8.0	8.7	8.7	8.7	7.7	6.3	5.3	6.0	6.0	6.7	6.0	6.3	6.7	6.0
PPG-PR 666	8.3	8.0	8.7	8.3	8.0	7.7	6.3	5.3	5.7	5.7	6.3	6.3	6.3	7.0	6.0
PST-2ADS	8.0	8.0	8.0	8.3	8.0	7.3	5.7	5.3	5.7	5.7	6.7	6.0	6.0	6.0	5.3
PST-2GDS	8.0	8.0	8.7	9.0	8.3	7.7	6.0	5.3	5.0	5.3	6.3	6.0	6.3	6.3	6.0
PST-2MES1	8.0	8.0	8.7	9.0	8.3	7.7	6.0	5.0	4.3	5.0	5.7	6.0	6.0	6.3	6.0
PPG-PR 637	8.0	8.0	8.3	8.3	8.7	7.7	6.3	5.3	5.3	5.3	6.3	5.7	6.0	6.7	6.0
PPG-PR 662	8.0	7.7	8.7	8.7	7.7	7.7	6.0	5.7	4.7	5.0	6.0	6.0	6.3	6.3	6.3
PPG-PR 667	8.0	8.3	8.7	9.0	8.7	8.0	6.3	6.0	6.3	5.7	6.0	6.0	6.3	7.0	6.3

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

QUALITY RATINGS FOR THE CONTROL 3/

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	8.0	8.0	8.7	8.7	8.7	7.7	6.0	5.7	5.3	6.3	6.7	6.3	6.0	6.7	6.3
APS	8.0	8.0	8.0	8.7	7.7	7.3	5.7	5.3	5.7	5.3	5.7	6.0	6.0	6.0	5.7
GO-RUS20	8.0	7.7	8.0	9.0	8.7	7.7	6.7	5.7	5.7	5.7	6.0	5.0	5.3	6.7	6.3
MRSI-PR22	8.0	8.0	8.3	9.0	7.7	7.7	5.7	3.7	3.3	3.7	4.3	5.0	5.7	6.0	5.7
PPG-PR 602	8.0	8.3	8.7	8.7	8.3	7.7	6.3	5.7	6.0	6.0	6.3	5.7	6.0	6.7	6.3
PPG-PR 643	8.3	8.3	8.7	8.7	7.7	7.7	5.7	5.0	5.0	5.3	5.3	5.7	6.3	6.3	5.7
PST-2BGL	8.0	8.3	8.3	9.0	8.0	7.3	5.3	5.3	5.7	5.3	6.3	6.0	6.3	6.3	5.7
SUNDOWN (BY-PS2)	8.3	7.7	8.0	9.0	8.3	7.0	6.0	4.0	4.7	5.0	5.3	5.7	6.3	6.3	5.7
PST-2SPF	8.0	8.3	8.0	8.7	8.3	8.0	5.3	5.0	4.7	5.3	5.7	6.0	6.7	7.7	6.7
BAR LP 22174	8.0	8.0	8.7	8.7	7.3	7.3	6.0	5.0	5.3	5.3	6.0	5.7	6.3	7.0	6.0
DLF-PR-3738	8.0	7.7	8.0	8.7	7.7	7.7	6.7	4.7	5.0	5.0	5.3	5.3	5.3	6.3	6.0
HIGH OCTANE	8.0	8.0	8.0	8.3	7.0	7.3	6.0	4.7	5.0	5.3	5.7	5.7	6.0	6.3	6.0
PPG-PR 644	8.3	8.0	8.7	9.0	7.7	7.3	5.7	5.0	6.0	5.0	6.0	5.7	5.7	6.7	6.0
LTP-NR	8.0	7.7	8.3	9.0	8.0	7.3	5.7	4.7	4.3	4.7	5.7	5.7	6.0	6.3	6.0
PPG-PR 606	8.0	8.0	8.7	8.7	8.0	8.0	6.3	5.0	5.3	5.7	6.3	6.7	6.7	6.3	6.0
PPG-PR 642	8.0	8.0	8.3	8.3	8.0	7.7	5.7	4.7	4.3	5.7	6.0	6.3	6.7	7.0	6.0
PST-2EGY	8.0	8.0	8.3	8.3	7.7	7.3	5.7	4.7	5.7	6.0	6.3	6.7	7.0	6.3	6.0
PVF-SGS5	8.0	8.0	8.7	9.0	8.7	7.7	5.7	5.0	5.0	5.3	6.0	5.7	6.3	6.3	6.0
SILETZ	8.0	8.0	8.0	8.3	8.3	8.0	6.0	5.3	5.3	6.0	6.3	6.0	6.3	6.7	6.0
DLF-PR-3728	8.3	8.0	8.0	8.7	8.0	7.7	6.3	5.3	6.3	6.3	6.3	6.3	6.3	6.0	5.3
PISTON	8.0	8.0	8.7	8.3	7.7	7.3	5.7	4.3	4.7	5.0	5.3	5.3	6.0	5.7	5.3
QUASAR	8.0	7.7	8.3	8.7	7.7	7.7	6.0	4.3	5.0	5.0	5.7	5.7	5.7	7.3	6.3
STELLAR 4GL	8.0	7.7	8.3	8.7	8.0	7.3	6.0	4.7	4.3	4.3	4.7	5.3	6.0	6.7	6.3
HOMERUN LS	8.0	8.0	8.3	8.7	8.3	7.7	6.0	4.3	3.7	4.3	5.3	5.7	5.7	6.7	6.3
PVF-RPP2	8.0	8.0	8.3	8.3	7.0	7.3	5.7	4.7	4.7	5.0	5.0	5.0	5.7	6.3	6.7
RPP3	8.0	8.0	8.3	9.0	8.0	7.7	5.7	5.3	5.3	5.3	6.0	5.7	5.3	6.7	6.7
BSG-PR22	8.0	8.0	8.7	8.7	8.7	8.0	6.0	5.0	5.3	5.0	6.0	5.7	6.7	6.3	5.7
DLF-PR-3729	8.0	8.0	8.0	8.3	8.0	7.7	6.3	5.0	5.0	5.7	6.0	5.3	6.0	6.0	6.0
PROMINENT II (TSC-CRS)	8.0	8.0	8.7	8.3	7.7	7.7	6.0	4.3	4.7	4.7	5.3	5.3	6.0	6.7	6.0
SEPR-2013	8.0	8.0	8.3	9.0	8.3	8.0	5.7	5.3	5.7	6.0	6.3	6.7	6.7	6.0	6.0
PPG-PR 658	8.0	8.0	8.3	8.7	7.7	7.3	5.7	4.7	5.3	5.3	6.0	5.7	6.3	7.3	6.0
FLIGHTLINE (PST-214)	8.3	8.3	8.3	9.0	8.0	8.0	6.0	5.0	5.3	5.3	5.3	5.3	6.0	6.3	6.0
PST-2E6	8.0	7.7	8.0	9.0	8.0	7.0	6.0	4.7	5.7	6.0	6.7	6.3	6.7	6.7	6.0
RC20-020	8.3	8.0	8.7	8.7	8.0	7.3	6.0	4.7	5.3	5.7	6.3	5.7	6.3	6.7	6.0
LINN	8.0	7.7	7.7	8.3	7.7	7.0	5.3	4.0	4.0	4.0	5.0	5.0	5.7	6.0	5.3
PPG-PR 620	8.0	8.0	8.7	9.0	8.7	8.0	6.7	5.3	5.3	5.7	7.0	6.0	6.7	7.0	6.7
LSD VALUE	1.4	2.1	1.8	1.2	1.7	2.3	2.5	2.7	3.5	3.1	3.0	2.1	2.0	2.2	1.5
C.V. (%)	3.1	4.6	5.5	4.5	7.2	6.5	10.1	15.8	20.1	16.7	14.9	12.3	10.2	9.4	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.

3/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

QUALITY RATINGS DURING APPLIED SALT TREATMENT 3/

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	8.0	8.0	8.7	8.7	7.7	7.0	5.7	5.0	4.3	4.0	3.7	3.3	4.0	4.0	3.3
BAR LP 22256	8.3	8.3	9.0	9.0	8.3	7.7	5.7	4.7	3.7	3.3	3.0	2.7	3.0	3.3	3.3
GO-RUS22	8.0	8.3	9.0	9.0	7.3	7.0	5.7	5.3	4.3	4.0	3.7	3.3	3.3	3.3	3.0
GRAY EAGLE SLT (PST-2MEG)	8.0	8.0	9.0	9.0	7.7	7.0	5.3	4.7	4.0	4.0	3.3	3.3	3.7	3.7	3.3
PERFORMANCE (NAI-PR5)	8.3	8.0	9.0	8.7	7.0	7.0	5.3	3.7	3.3	3.3	3.3	2.7	3.3	3.3	3.0
PPG-PR 610	8.0	8.0	9.0	9.0	7.7	7.3	5.7	4.3	3.7	3.7	3.3	3.3	3.3	3.0	3.0
PPG-PR 639	8.0	8.0	9.0	8.7	8.0	7.3	5.7	4.7	3.7	4.0	3.7	3.7	3.7	3.7	3.3
PPG-PR 663	8.0	8.0	9.0	8.7	7.7	7.3	5.7	5.0	4.0	4.0	3.7	3.3	3.0	4.0	3.0
PPG-PR 668	8.0	8.7	9.0	9.0	7.3	7.0	5.3	4.3	3.7	3.7	3.7	3.0	3.0	3.0	3.0
SGP4	8.0	8.0	9.0	8.7	7.3	7.3	5.7	5.3	4.0	4.0	3.3	3.3	4.0	3.7	3.0
ALPHA CENTAURI	8.0	7.7	8.7	9.0	8.0	7.7	5.7	5.0	3.7	3.3	3.0	2.7	3.0	3.3	3.0
BRIGHTSTAR SLT	8.0	8.0	9.0	9.0	7.0	7.0	5.0	4.3	3.3	3.7	2.7	3.0	3.0	3.7	3.0
DLF-PR-3737	8.0	8.0	9.0	8.7	7.3	7.3	5.7	5.0	4.3	4.0	3.3	3.0	3.3	3.3	3.0
GO-RUS21	8.0	8.3	9.0	8.7	7.7	7.0	5.0	4.0	3.3	3.3	3.0	2.7	2.7	3.0	3.0
NEXUS DK (SE-DK)	8.0	8.0	8.7	9.0	7.3	6.7	5.0	4.3	3.3	3.3	3.7	3.3	3.7	3.3	3.0
PPG-PR 647	8.0	8.0	9.0	8.7	7.7	6.7	5.7	4.3	3.3	3.3	3.0	3.0	3.0	2.7	3.0
PPG-PR 670	8.3	8.0	9.0	9.0	7.3	7.0	5.0	4.3	3.3	3.0	2.7	2.7	3.0	3.3	3.0
RELIC (PPG-PR 611)	8.0	8.3	9.0	9.0	7.7	7.0	5.0	4.3	3.3	3.7	3.3	3.0	3.3	2.7	3.0
VORTEX SRT (PPG-PR 665)	8.0	8.0	9.0	9.0	7.7	7.0	5.0	4.3	4.0	3.7	3.3	3.0	3.3	3.3	3.0
BAR LP 22191	8.0	8.0	8.7	8.7	7.3	7.0	5.3	4.3	3.7	3.3	3.3	2.7	3.0	3.0	2.7
BAR LP 22262	8.0	8.0	8.3	8.7	8.0	7.0	5.0	4.7	4.0	3.7	3.3	3.7	3.7	3.7	2.7
DLF-PR-3735	8.0	8.3	9.0	9.0	7.7	7.0	5.0	4.3	3.5	3.3	3.3	2.7	2.7	3.0	2.7
LIGHTSPEED (PST-2DRG)	8.3	8.0	9.0	9.0	7.0	6.7	5.0	4.3	3.7	3.3	3.0	3.0	3.0	2.7	2.7
LTP-RPP4	8.0	8.0	9.0	9.0	7.7	7.0	5.3	4.7	3.0	3.0	2.7	2.7	2.7	2.7	2.7
PPG-PR 661	8.0	8.0	9.0	8.7	7.3	7.0	5.3	5.0	3.3	3.3	3.3	3.3	3.0	3.3	3.0
ULTRA SPORT (PST-2HAF20)	8.0	8.3	9.0	8.7	9.0	8.0	5.7	4.3	3.7	3.3	3.7	2.7	3.0	3.0	2.7
BAR LP 22263	8.3	8.3	9.0	8.7	7.3	7.3	6.0	5.3	4.3	4.0	3.7	3.7	3.7	3.7	3.0
PST-2HFM	8.0	8.3	9.0	8.3	7.7	7.3	4.7	4.3	3.0	3.3	3.0	2.7	3.3	3.3	3.0
DARK MATTER	8.0	8.7	9.0	8.7	7.7	7.0	4.7	4.0	3.0	3.3	2.7	3.0	3.0	3.0	2.7
20PR10	8.0	8.3	9.0	9.0	8.0	7.3	5.0	3.7	2.7	3.3	2.7	2.7	3.0	3.0	2.7
CJP1R	8.0	8.0	9.0	8.7	7.3	6.7	5.0	3.7	2.7	3.0	2.7	2.7	2.3	2.3	2.3
DLF-PR-3726	8.0	8.0	9.0	9.0	7.3	7.0	5.7	4.7	3.7	3.3	3.3	3.0	3.0	3.3	2.7
DLF-PR-3727	8.0	8.0	9.0	8.7	7.3	7.7	6.0	5.0	4.0	3.7	3.3	3.3	3.3	3.7	2.7
DLF-PR-3730	8.0	8.0	8.7	8.7	8.0	7.7	5.0	4.7	3.7	4.0	3.0	2.7	2.3	3.0	2.7
DLF-PR-3736	8.0	8.0	9.0	8.7	7.7	7.3	5.0	4.3	3.7	3.3	3.3	2.7	2.7	3.3	2.7
PPG-PR 671	8.0	8.0	9.0	8.7	7.0	7.0	5.0	4.7	4.0	3.3	2.7	2.7	2.3	2.7	2.7
GREENBACK	8.0	8.0	9.0	8.7	7.7	7.3	5.7	4.7	3.0	3.3	2.7	2.3	2.3	3.0	2.7
KARMA	7.7	8.0	9.0	8.7	7.7	7.7	5.0	4.3	3.3	3.3	3.3	2.7	3.3	2.7	2.7
PPG-PR 646	8.3	8.0	9.0	8.7	7.3	7.7	5.0	4.7	3.7	4.0	3.3	3.7	3.7	3.7	2.7
PPG-PR 664	8.0	8.0	9.0	8.7	7.7	7.3	5.7	4.0	3.0	3.0	2.7	2.7	2.7	3.3	2.7
PPG-PR 666	8.0	8.0	9.0	8.3	7.7	7.3	6.0	4.3	4.0	3.7	3.7	2.7	3.0	3.0	2.7
PST-2ADS	7.7	8.0	8.7	9.0	7.3	7.7	5.0	5.3	4.0	4.0	3.0	3.3	3.3	2.7	2.3
PST-2GDS	8.0	8.0	9.0	8.3	7.7	7.3	5.0	4.0	3.3	3.0	2.7	2.7	2.7	3.0	2.7
PST-2MES1	8.3	8.3	9.0	8.7	8.3	7.7	5.3	4.7	3.7	3.7	3.3	3.0	3.3	2.7	2.7
PPG-PR 637	8.3	8.0	9.0	9.0	7.3	7.3	4.7	4.3	3.7	3.7	3.3	3.0	3.3	3.3	2.7
PPG-PR 662	8.0	8.3	9.0	8.7	8.0	7.7	6.0	5.0	4.0	4.0	3.3	3.3	3.3	3.3	2.7
PPG-PR 667	8.0	7.7	9.0	9.0	8.0	8.0	6.0	5.3	4.3	4.0	4.0	3.7	3.7	3.0	2.7

TABLE 16.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ QUALITY RATINGS DURING APPLIED SALT TREATMENT 3/															
NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	8.0	8.3	9.0	9.0	7.7	7.3	5.3	4.3	3.7	4.0	3.3	3.3	3.0	3.0	2.7
APS	7.7	8.0	9.0	9.0	7.7	6.7	5.3	4.3	3.0	3.0	2.3	2.7	2.7	2.7	2.3
GO-RUS20	8.0	7.7	8.7	8.7	6.7	6.3	4.3	4.3	3.7	3.3	3.0	3.0	3.0	3.0	2.7
MRSI-PR22	7.7	7.7	9.0	8.3	7.7	7.0	5.7	4.3	3.0	3.3	2.7	2.7	2.7	2.3	2.3
PPG-PR 602	8.0	8.0	9.0	8.7	7.7	6.7	5.7	4.0	3.7	3.3	2.7	2.3	2.3	2.3	2.7
PPG-PR 643	8.0	8.0	9.0	8.7	7.3	6.7	5.7	4.0	3.0	3.3	2.7	2.7	2.3	2.3	2.3
PST-2BGL	7.7	8.0	9.0	9.0	7.0	7.0	5.0	4.3	3.0	3.0	2.3	2.0	2.3	2.0	2.3
SUNDOWN (BY-PS2)	8.0	8.0	9.0	9.0	7.0	7.3	5.3	4.3	3.0	3.3	2.7	2.7	2.7	2.7	2.3
PST-2SPF	8.0	8.7	9.0	8.7	7.7	7.3	5.0	4.0	3.3	3.3	3.3	3.0	3.0	3.0	2.7
BAR LP 22174	8.0	8.0	8.7	8.7	7.0	7.0	4.7	4.3	3.3	3.7	3.0	2.7	3.0	2.7	2.3
DLF-PR-3738	7.7	8.0	8.7	8.7	7.3	7.7	5.3	4.3	3.3	3.0	2.3	3.0	2.7	2.7	2.3
HIGH OCTANE	8.0	8.3	8.7	9.0	7.0	7.0	5.0	3.3	2.7	2.7	2.3	2.7	2.3	2.7	2.3
PPG-PR 644	8.0	7.7	9.0	8.7	7.3	6.3	4.3	3.0	2.7	3.0	2.3	2.3	2.0	2.3	2.3
LTP-NR	8.0	8.0	8.7	9.0	7.0	7.0	4.7	3.3	3.3	3.3	3.0	2.7	2.7	2.7	2.3
PPG-PR 606	8.0	8.0	9.0	9.0	7.3	7.3	5.0	4.0	3.0	3.7	3.0	3.0	3.0	3.3	2.3
PPG-PR 642	8.0	8.3	9.0	8.7	7.7	7.0	5.0	3.7	3.3	3.3	3.0	2.7	2.7	3.0	2.3
PST-2EGY	8.0	8.0	9.0	9.0	7.7	7.3	5.3	4.0	3.3	3.3	2.7	2.3	2.7	2.7	2.3
PVF-SGS5	8.0	8.0	8.7	9.0	8.0	7.0	5.7	4.3	4.3	3.3	3.0	2.7	3.0	3.0	2.3
SILETZ	8.0	8.3	8.7	9.0	7.3	7.3	5.7	4.0	3.0	3.3	3.0	2.7	2.7	2.7	2.3
DLF-PR-3728	8.0	8.3	9.0	9.0	7.7	7.0	5.0	4.0	3.3	3.3	2.7	2.7	3.0	2.7	2.0
PISTON	8.0	8.0	9.0	9.0	7.3	7.0	5.7	4.3	3.0	3.3	2.7	2.7	2.7	2.7	2.0
QUASAR	8.0	7.7	8.7	9.0	8.0	7.0	5.3	4.3	4.0	3.7	3.0	3.3	3.0	3.3	2.3
STELLAR 4GL	8.0	8.0	9.0	8.7	7.3	6.7	4.3	4.0	3.7	3.3	2.7	2.7	2.7	2.7	2.3
HOMERUN LS	8.0	8.0	9.0	8.7	7.0	6.3	4.3	3.7	2.7	3.0	2.7	2.7	2.7	2.7	2.3
PVF-RPP2	8.0	8.0	9.0	9.0	7.7	7.3	5.0	4.3	3.3	3.3	3.0	2.7	2.7	2.7	2.3
RPP3	8.0	8.0	8.7	8.7	7.0	7.0	5.0	4.3	3.3	3.7	3.0	3.0	3.0	3.0	2.3
BSG-PR22	8.0	8.7	9.0	9.0	8.3	7.0	4.3	4.0	2.7	2.7	2.3	2.0	2.0	2.7	2.0
DLF-PR-3729	8.0	8.0	9.0	8.7	7.3	7.0	6.0	4.0	3.3	3.0	2.3	2.3	2.7	2.3	2.0
PROMINENT II (TSC-CRS)	8.0	8.3	8.7	9.0	7.7	7.3	5.0	3.7	2.7	2.3	1.7	2.0	2.7	2.7	2.0
SEPR-2013	8.0	8.0	9.0	9.0	8.0	7.3	5.7	4.7	3.3	3.0	2.3	2.0	2.7	2.3	2.0
PPG-PR 658	8.0	8.0	8.7	9.0	7.7	6.7	5.3	4.3	3.3	3.0	2.3	2.3	2.3	2.3	2.0
FLIGHTLINE (PST-214)	8.0	8.0	8.7	8.7	7.3	6.7	4.7	3.3	2.7	2.3	2.3	2.0	2.3	2.3	2.0
PST-2E6	8.0	8.0	9.0	9.0	7.0	7.3	4.3	3.3	2.3	2.7	2.3	2.0	2.7	2.7	2.0
RC20-020	8.0	7.7	9.0	8.7	7.3	7.3	5.7	3.3	2.7	2.3	2.3	2.3	2.3	2.3	2.0
LINN	7.7	8.0	8.3	8.7	7.0	5.7	4.0	3.3	2.7	3.0	2.7	2.7	2.7	2.7	1.7
PPG-PR 620	8.0	8.3	8.7	9.0	6.7	6.7	4.3	3.3	3.0	3.3	2.7	2.3	2.7	3.0	2.0
LSD VALUE	1.0	0.9	1.2	1.5	1.4	2.0	2.6	2.6	2.8	1.9	1.6	2.2	1.9	2.0	1.7
C.V. (%)	3.0	4.0	3.3	4.0	7.3	8.6	14.6	19.0	22.9	18.3	21.3	23.6	22.3	22.3	21.7

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

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

3/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO 10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

PERCENT OF QUALITY (SALT TREATMENT OVER CONTROL)

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	100.0	100.0	108.7	100.0	92.3	92.0	101.0	100.0	95.0	93.3	65.7	60.0	66.7	63.3	59.0
BAR LP 22256	104.3	104.3	108.7	108.7	100.7	100.3	95.3	87.7	72.3	60.0	53.0	42.0	50.0	53.3	55.7
GO-RUS22	100.0	104.3	108.7	104.3	92.0	92.0	90.7	116.7	97.3	89.0	74.3	61.0	57.7	52.3	53.3
GRAY EAGLE SLT (PST-2MEG)	100.0	100.0	104.3	100.0	92.7	92.0	96.7	85.7	71.0	64.3	52.3	53.0	61.0	54.7	53.3
PERFORMANCE (NAI-PR5)	104.3	100.0	100.0	96.3	88.7	92.0	91.3	73.3	72.7	63.3	56.7	46.7	52.3	50.0	53.3
PPG-PR 610	100.0	100.0	113.0	108.7	96.0	96.0	100.0	91.7	69.0	64.7	56.7	52.3	51.0	45.3	53.3
PPG-PR 639	100.0	100.0	104.3	105.0	105.7	96.0	103.7	110.0	86.7	76.7	73.3	69.3	64.3	52.3	53.3
PPG-PR 663	100.0	96.3	104.3	100.7	88.7	92.0	94.3	121.0	126.7	125.7	114.3	81.0	56.0	65.7	53.3
PPG-PR 668	100.0	108.7	113.0	100.0	88.3	88.0	88.7	83.7	72.3	70.0	65.7	53.3	53.3	43.7	52.3
SGP4	96.3	96.3	108.7	96.3	88.7	96.0	89.7	105.7	97.7	71.3	53.3	55.7	66.7	55.7	51.0
ALPHA CENTAURI	100.0	92.3	104.3	104.3	96.3	96.0	89.7	82.7	60.0	57.7	47.7	43.0	46.3	49.0	50.0
BRIGHTSTAR SLT	100.0	100.0	108.7	100.0	84.7	88.0	79.0	75.3	49.3	63.3	44.3	53.3	53.3	59.0	50.0
DLF-PR-3737	100.0	96.3	108.7	100.0	96.0	96.0	94.3	102.7	101.7	80.0	58.0	52.3	54.7	50.0	50.0
GO-RUS21	100.0	104.3	104.3	104.3	100.0	88.0	83.0	89.0	93.3	76.7	58.3	52.7	45.3	45.3	50.0
NEXUS DK (SE-DK)	96.3	100.0	105.0	108.7	103.7	87.3	94.3	108.3	91.0	83.3	73.3	66.7	69.0	51.0	50.0
PPG-PR 647	100.0	100.0	113.0	100.0	93.0	83.3	90.3	79.0	64.0	60.0	48.7	53.3	50.0	39.7	50.0
PPG-PR 670	100.7	100.0	104.3	108.7	88.3	87.7	75.3	86.0	75.3	58.3	50.0	46.7	53.3	52.3	50.0
RELIC (PPG-PR 611)	100.0	104.3	108.7	100.0	96.0	96.0	87.7	94.3	75.7	74.0	66.0	58.3	55.7	40.7	50.0
VORTEX SRT (PPG-PR 665)	100.0	100.0	108.7	100.0	96.0	96.0	83.0	81.0	68.0	63.3	51.0	47.7	53.3	55.7	50.0
BAR LP 22191	100.0	100.0	105.0	96.3	88.7	92.3	84.0	83.3	75.0	70.0	64.3	51.0	50.0	46.3	48.7
BAR LP 22262	100.0	100.0	100.7	100.7	104.7	96.0	94.3	111.0	93.3	75.7	66.7	65.7	55.7	62.3	47.7
DLF-PR-3735	101.0	100.7	108.7	104.3	92.3	88.0	80.0	83.3	226.7	61.0	56.7	47.7	44.3	48.7	47.7
LIGHTSPEED (PST-2DRG)	104.3	96.3	113.0	104.3	92.0	83.7	83.7	83.3	67.0	61.7	52.3	50.0	50.0	39.0	47.7
LTP-RPP4	100.0	100.0	104.3	108.7	100.7	92.0	95.3	86.7	55.7	53.3	44.3	44.3	42.0	43.0	47.7
PPG-PR 661	100.0	100.0	113.0	100.0	96.7	92.0	97.0	111.7	75.0	61.0	60.0	70.0	54.3	49.3	47.7
ULTRA SPORT (PST-2HAF20)	96.3	104.3	104.3	96.3	108.7	100.3	90.3	81.0	65.7	53.3	58.7	38.0	45.3	45.3	47.7
BAR LP 22263	104.3	104.3	104.3	100.0	88.7	92.0	102.0	94.3	86.0	78.0	74.3	65.7	65.7	61.3	46.7
PST-2HFM	100.0	104.3	104.3	92.7	100.0	92.0	82.3	72.3	52.3	62.3	53.3	44.3	55.7	46.3	46.7
DARK MATTER	100.0	108.7	104.3	100.0	92.3	92.0	68.7	68.0	57.7	72.7	47.7	63.3	53.3	47.7	45.3
20PR10	100.0	109.0	108.7	104.3	105.0	100.7	89.0	83.3	53.3	62.3	44.3	46.7	50.0	50.0	44.3
CJPlR	100.0	100.0	108.7	100.7	96.7	91.3	88.7	86.7	61.7	60.0	50.0	52.3	44.3	39.7	44.3
DLF-PR-3726	100.0	100.0	108.7	100.0	88.7	92.0	90.3	87.7	62.3	58.0	52.3	52.3	50.0	52.3	44.3
DLF-PR-3727	96.3	100.0	104.3	104.3	93.3	100.7	100.0	114.0	80.0	61.3	54.3	55.7	52.3	52.3	44.3
DLF-PR-3730	100.0	100.0	100.0	104.3	104.7	96.0	83.0	96.0	75.7	75.7	45.3	42.0	35.0	41.3	44.3
DLF-PR-3736	100.0	100.0	108.7	100.7	96.0	96.0	84.7	89.3	69.0	59.0	55.7	46.7	46.7	50.0	44.3
PPG-PR 671	96.3	101.0	104.3	96.3	84.7	92.0	79.3	89.0	73.7	62.3	42.0	46.7	38.7	39.7	44.3
GREENBACK	100.0	100.0	104.3	100.0	96.3	104.7	101.0	108.3	58.3	67.3	50.0	38.7	33.7	45.3	44.3
KARMA	96.0	104.7	113.0	96.3	96.0	100.0	88.7	95.0	84.3	73.3	73.3	53.3	60.0	42.0	44.3
PPG-PR 646	104.3	100.0	108.7	96.3	96.0	100.7	83.3	100.0	74.0	85.0	65.7	69.7	64.7	58.0	44.3
PPG-PR 664	100.0	100.0	104.3	100.7	89.0	96.0	89.7	75.7	50.0	50.0	41.7	47.3	43.0	51.7	44.3
PPG-PR 666	96.3	100.0	104.3	100.7	96.0	96.0	95.3	82.3	71.0	65.7	59.0	43.0	47.7	43.0	44.3
PST-2ADS	96.0	100.0	108.7	108.7	91.7	104.7	89.0	102.3	72.3	72.3	45.3	55.3	55.7	44.3	44.3
PST-2GDS	100.0	100.0	104.3	92.7	92.7	96.7	85.7	75.7	66.7	56.7	41.0	44.3	41.0	46.7	44.3
PST-2MES1	104.3	104.3	104.3	96.3	100.0	100.7	91.3	93.3	85.0	74.0	60.0	49.0	55.7	41.0	44.3
PPG-PR 637	104.3	100.0	108.7	108.7	85.0	96.7	73.7	83.3	69.3	69.7	53.3	53.3	55.7	50.0	44.3
PPG-PR 662	100.0	109.0	104.3	100.0	104.7	100.0	100.0	86.7	85.0	80.0	55.3	55.3	52.3	53.3	43.0
PPG-PR 667	100.0	92.7	104.3	100.0	92.3	100.0	94.3	92.3	70.0	75.3	66.3	61.0	57.7	44.0	43.0

TABLE 16.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

PERCENT OF QUALITY (SALT TREATMENT OVER CONTROL)

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	100.0	106.0	104.3	104.3	89.0	96.0	89.7	79.0	70.0	63.3	50.0	51.3	50.0	45.3	43.0
APS	96.0	100.0	113.0	104.3	100.7	91.7	94.3	81.0	54.3	61.0	45.7	47.3	45.3	44.3	42.0
GO-RUS20	100.0	100.7	108.7	96.3	77.0	83.0	66.7	77.7	69.7	63.0	50.0	60.0	56.7	45.3	42.0
MRSI-PR22	96.0	96.0	108.7	92.7	100.7	91.7	100.0	119.3	91.7	91.7	61.7	53.3	46.7	38.7	42.0
PPG-PR 602	100.0	96.3	104.3	100.7	92.7	87.7	90.3	72.3	61.0	55.7	43.0	41.0	38.7	36.0	42.0
PPG-PR 643	96.3	96.3	104.3	100.0	97.3	87.7	102.0	82.3	61.7	64.0	52.7	47.7	37.3	37.3	41.0
PST-2BGL	96.0	96.3	108.7	100.0	88.0	96.0	94.3	81.0	53.3	56.7	37.3	33.0	37.3	31.7	41.0
SUNDOWN (BY-PS2)	96.3	104.7	114.0	100.0	84.7	104.7	88.7	111.0	70.0	67.3	52.7	47.7	44.0	42.0	41.0
PST-2SPF	100.0	105.0	113.0	100.7	92.3	92.0	94.3	80.0	70.0	62.3	60.0	50.0	44.3	40.0	39.7
BAR LP 22174	100.0	100.0	100.7	100.0	96.0	96.0	77.7	86.7	64.0	72.3	53.0	47.7	46.7	38.3	38.7
DLF-PR-3738	96.0	104.7	108.7	100.0	95.3	100.0	80.0	96.7	68.3	62.7	46.3	55.7	50.0	42.0	38.7
HIGH OCTANE	100.0	104.3	108.7	108.7	100.0	96.0	83.3	71.7	52.3	50.0	41.0	47.7	38.7	43.0	38.7
PPG-PR 644	96.3	96.0	104.3	96.3	96.0	87.0	75.7	61.7	44.3	60.0	38.7	41.0	35.3	35.0	38.7
LTP-NR	100.0	104.7	105.0	100.0	88.7	96.0	82.0	71.7	76.7	73.3	53.3	47.7	44.3	43.0	38.7
PPG-PR 606	100.0	100.0	104.3	104.3	92.3	92.0	80.0	83.3	57.7	65.7	48.7	45.3	44.3	52.3	38.7
PPG-PR 642	100.0	104.3	108.7	104.3	96.0	91.3	88.7	78.3	84.3	59.0	50.0	42.0	40.7	43.0	38.7
PST-2EGY	100.0	100.0	108.7	108.7	100.7	100.0	94.3	85.0	60.0	55.7	43.0	35.0	38.0	42.0	38.7
PVF-SGS5	100.0	101.0	100.7	100.0	92.7	92.0	101.0	92.3	89.3	66.7	50.0	47.7	48.7	48.7	38.7
SILETZ	100.0	104.3	108.7	108.7	88.7	92.0	94.3	77.7	58.3	55.7	46.7	44.3	42.0	40.7	38.7
DLF-PR-3728	96.3	104.3	113.0	104.3	97.0	92.0	79.0	75.7	53.3	53.3	43.0	43.0	47.7	44.3	37.7
PISTON	100.0	100.0	104.3	108.7	96.0	96.0	100.0	108.3	70.0	68.3	59.7	52.7	45.3	47.7	37.7
QUASAR	100.0	100.7	104.3	104.3	104.7	92.0	88.7	101.7	82.3	74.0	54.3	61.0	54.3	46.0	37.3
STELLAR 4GL	100.0	104.7	108.7	100.7	91.7	91.7	72.0	93.3	91.0	80.0	61.0	51.0	44.3	40.7	37.3
HOMERUN LS	100.0	100.0	108.7	100.0	84.7	83.0	72.0	83.3	75.0	71.7	51.0	49.7	47.7	39.7	36.3
PVF-RPP2	100.0	101.0	108.7	108.7	109.3	100.7	88.7	93.3	72.3	68.3	60.0	53.3	47.7	42.0	36.0
RPP3	100.0	100.0	105.0	96.3	89.0	92.0	90.0	83.3	64.3	70.0	52.0	52.3	56.7	46.3	36.0
BSG-PR22	100.0	108.7	104.3	104.3	96.3	87.7	72.3	83.3	50.0	54.3	39.7	35.3	30.3	42.0	35.3
DLF-PR-3729	100.0	100.0	113.0	104.3	92.0	91.7	95.3	80.0	65.7	52.3	36.7	41.7	43.3	39.0	33.3
PROMINENT II (TSC-CRS)	100.0	104.3	100.7	108.7	100.7	96.0	83.3	85.0	61.0	50.0	31.0	39.0	44.3	40.7	33.3
SEPR-2013	100.0	100.0	108.7	100.0	96.0	92.0	101.0	87.7	63.3	52.0	36.7	29.7	40.7	39.0	33.3
PPG-PR 658	100.0	100.0	104.3	104.3	100.7	91.7	95.3	93.3	62.3	56.7	38.7	41.0	37.3	32.3	33.0
FLIGHTLINE (PST-214)	96.3	96.3	105.0	96.3	92.7	83.7	77.7	68.3	51.0	47.0	47.0	37.7	38.7	37.3	33.0
PST-2E6	100.0	104.7	113.0	100.0	88.0	104.7	72.0	71.7	41.0	44.3	35.0	31.7	40.7	39.7	33.0
RC20-020	96.3	96.0	104.3	100.7	92.7	101.0	97.0	72.3	50.0	41.0	36.3	41.0	37.3	35.0	33.0
LINN	96.0	104.7	109.0	104.3	91.7	81.7	80.7	94.0	71.7	82.7	56.0	53.3	46.7	44.3	32.3
PPG-PR 620	100.0	104.3	100.7	100.0	77.7	83.7	65.0	67.7	58.3	60.0	39.3	39.7	39.7	43.0	31.0
LSD VALUE	22.1	32.4	37.9	16.8	26.7	43.9	73.6	97.2	184.5	63.3	55.9	40.2	32.6	37.1	37.8
C.V. (%)	4.3	6.6	6.7	6.0	9.9	10.4	18.7	26.0	56.7	29.5	34.5	27.9	24.8	24.2	23.8

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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO 10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

DENSITY RATINGS FOR THE CONTROL

NAME	FEB 17 6_dS	FEB 24 6_dS	MAR 6 6_dS	MAR 15 10_dS	MAR 20 10_dS	MAR 29 10_dS	APR 5 14_dS	APR 14 14_dS	APR 21 14_dS	APR 28 18_dS	MAY 5 18_dS	MAY 10 18_dS	MAY 22 22_dS	JUN 2 22_dS
DLF-LGT-3066	7.3	7.3	8.0	7.0	7.0	6.0	5.7	5.3	5.3	5.0	5.0	5.3	6.0	5.5
BAR LP 22256	8.0	8.0	8.3	8.5	7.3	6.3	6.0	6.3	6.0	5.7	6.0	6.3	6.3	6.3
GO-RUS22	7.3	8.3	8.7	7.0	7.0	6.3	5.7	6.0	6.3	5.7	6.0	6.7	6.3	7.0
GRAY EAGLE SLT (PST-2MEG)	7.3	8.3	8.7	8.0	7.0	6.3	6.3	6.7	6.7	6.0	6.3	6.7	6.7	6.3
PERFORMANCE (NAI-PR5)	8.0	7.7	8.3	8.3	7.0	6.3	6.0	6.0	6.0	5.7	6.0	6.7	6.7	6.0
PPG-PR 610	8.0	8.0	8.3	7.7	7.0	6.3	5.3	6.0	6.0	6.3	6.0	6.3	6.0	7.0
PPG-PR 639	8.0	8.0	8.3	7.7	7.3	6.7	6.3	6.0	5.7	5.7	6.0	6.3	7.0	6.3
PPG-PR 663	7.7	8.3	9.0	8.3	7.7	6.0	5.3	5.0	5.7	5.3	5.3	5.7	5.7	5.0
PPG-PR 668	8.0	8.7	8.7	8.0	7.7	7.0	6.3	6.7	6.3	6.7	6.3	6.3	7.7	6.3
SGP4	8.0	8.3	8.7	8.7	7.0	6.0	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.5
ALPHA CENTAURI	8.0	8.3	8.3	7.7	7.0	6.3	6.3	6.7	6.0	6.3	6.3	6.0	6.7	5.7
BRIGHTSTAR SLT	7.0	7.7	8.3	7.7	7.0	6.3	6.3	6.3	6.3	6.0	6.0	6.3	6.3	6.0
DLF-PR-3737	7.7	8.3	8.0	7.7	7.3	6.0	6.3	6.3	6.3	5.7	6.0	6.0	5.7	6.0
GO-RUS21	8.0	8.7	8.0	7.7	7.0	6.3	6.0	5.7	5.7	5.7	5.7	6.0	5.3	5.7
NEXUS DK (SE-DK)	7.3	8.0	7.7	7.7	7.0	6.0	5.7	5.0	5.3	5.7	5.3	5.7	6.0	6.3
PPG-PR 647	7.7	8.0	7.7	8.0	7.0	6.0	5.3	6.0	6.0	6.0	6.0	6.0	6.3	5.5
PPG-PR 670	7.0	8.0	8.0	8.0	7.0	6.3	6.3	6.0	6.0	6.0	5.7	6.3	6.3	6.5
RELIC (PPG-PR 611)	8.3	8.7	9.0	7.5	7.3	6.0	6.0	5.0	5.3	5.7	5.3	5.3	6.7	6.0
VORTEX SRT (PPG-PR 665)	8.7	8.3	8.3	8.0	7.3	6.3	6.3	7.3	6.3	6.3	6.3	6.7	7.0	6.3
BAR LP 22191	7.3	8.3	8.0	7.7	7.0	6.3	5.7	5.7	5.7	5.7	5.7	5.7	6.3	5.7
BAR LP 22262	7.7	8.0	8.3	7.0	7.0	6.0	5.7	5.7	5.7	5.7	5.7	5.7	6.0	5.7
DLF-PR-3735	7.3	7.7	8.7	8.3	7.0	6.3	6.3	6.0	6.3	6.0	5.7	6.0	6.3	6.3
LIGHTSPEED (PST-2DRG)	8.0	8.0	8.3	8.0	7.0	6.0	5.7	6.7	6.0	5.7	5.7	6.3	6.3	6.0
LTP-RPP4	8.0	8.3	8.3	8.0	7.0	6.0	5.3	6.3	6.0	5.7	6.0	6.3	6.3	4.5
PPG-PR 661	7.7	8.7	8.7	8.3	7.0	6.3	6.0	6.3	6.0	6.0	6.0	7.0	7.3	7.0
ULTRA SPORT (PST-2HAF20)	8.3	9.0	8.0	8.0	7.3	6.3	6.0	6.0	6.3	6.0	6.7	6.7	6.7	5.7
BAR LP 22263	8.0	8.7	8.3	8.7	7.7	6.3	6.7	6.3	6.7	6.0	6.0	6.3	6.0	6.0
PST-2HFM	8.3	8.7	8.3	8.7	8.0	6.3	6.3	6.3	6.3	6.0	6.3	6.7	7.0	7.0
DARK MATTER	7.7	8.0	8.3	7.7	7.3	7.0	6.0	6.7	6.3	5.7	5.3	6.0	6.7	6.0
20PR10	7.3	8.0	8.3	7.7	7.0	6.0	6.0	5.7	5.3	5.3	5.7	6.3	6.0	5.7
CJP1R	7.3	7.7	8.0	7.7	7.0	6.0	6.0	5.7	5.3	5.7	5.3	5.0	5.7	5.0
DLF-PR-3726	7.7	8.3	8.3	7.3	7.0	6.0	6.3	6.3	6.0	5.3	6.0	6.3	6.3	5.7
DLF-PR-3727	8.0	8.0	7.7	7.7	7.3	6.0	6.0	6.3	6.0	5.7	6.0	6.0	6.3	6.7
DLF-PR-3730	8.0	8.3	8.3	8.3	7.7	6.7	6.3	6.0	6.0	6.7	6.3	6.7	6.7	6.3
DLF-PR-3736	8.3	8.3	8.7	8.3	7.3	6.7	6.0	6.7	6.3	6.0	6.3	6.7	6.7	7.0
PPG-PR 671	8.3	8.3	8.7	8.0	7.3	6.0	5.3	6.7	6.0	6.0	6.0	5.7	6.7	7.0
GREENBACK	8.0	8.3	8.7	8.0	7.0	6.0	6.0	5.7	5.7	6.3	6.3	6.7	5.7	5.7
KARMA	8.0	8.0	8.3	8.0	7.0	6.0	5.7	5.7	5.7	5.0	5.7	5.7	6.3	6.0
PPG-PR 646	7.7	8.0	8.3	7.7	7.0	6.0	6.0	6.3	6.0	5.7	6.0	6.3	6.3	6.0
PPG-PR 664	8.0	8.7	8.7	8.3	7.3	6.7	5.3	7.0	7.0	6.3	6.0	6.7	6.7	6.0
PPG-PR 666	8.0	8.7	8.7	7.7	7.7	6.7	6.0	6.3	6.0	6.7	6.0	6.7	6.7	6.0
PST-2ADS	8.0	8.0	8.7	7.5	7.0	6.0	6.3	6.3	6.0	6.3	6.0	6.3	5.7	5.3
PST-2GDS	7.7	8.0	8.0	8.3	7.0	6.7	6.0	6.0	6.0	6.3	6.0	6.7	6.0	6.0
PST-2MES1	8.0	8.7	8.3	8.0	7.0	6.3	6.3	6.3	6.0	6.3	6.3	6.7	6.7	6.7
PPG-PR 637	8.0	8.3	8.3	7.3	7.3	6.3	6.0	5.7	5.7	6.0	5.3	5.7	6.7	6.3
PPG-PR 662	7.7	8.0	8.3	7.3	7.0	6.0	5.7	5.7	5.7	5.7	6.0	6.0	6.7	6.3
PPG-PR 667	8.0	8.3	8.3	7.7	7.7	6.3	6.0	6.7	6.0	6.3	6.0	6.7	7.3	6.7

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

DENSITY RATINGS FOR THE CONTROL

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	8.0	8.0	9.0	7.5	7.3	6.3	6.3	6.0	6.0	5.7	6.0	6.3	6.7	5.3
APS	8.0	8.3	8.3	7.7	7.3	6.0	6.0	6.3	5.7	6.3	6.0	6.0	6.7	6.3
GO-RUS20	7.3	8.0	8.3	8.0	8.0	6.7	6.3	6.7	6.3	6.0	6.0	6.3	7.3	6.7
MRSI-PR22	7.7	8.0	8.0	7.0	7.0	6.0	5.3	4.0	4.3	4.3	4.7	4.5	5.0	4.7
PPG-PR 602	8.3	8.0	7.7	7.3	7.0	6.0	5.7	6.3	6.0	6.0	5.7	5.7	6.7	6.3
PPG-PR 643	8.0	8.0	8.3	8.3	7.7	6.0	6.0	6.0	5.7	5.7	6.0	6.0	6.3	5.7
PST-2BGL	8.0	8.7	8.7	8.3	7.0	6.0	6.0	6.3	6.0	6.0	6.0	6.3	7.0	6.0
SUNDOWN (BY-PS2)	7.7	8.7	8.0	8.0	7.0	6.0	5.3	5.7	6.0	5.7	5.3	6.0	6.0	5.5
PST-2SPF	8.0	8.0	8.7	8.0	7.0	6.0	5.3	5.7	5.7	5.7	5.7	6.3	8.0	8.0
BAR LP 22174	7.7	8.0	8.7	7.7	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7	6.0
DLF-PR-3738	8.3	8.3	8.3	7.7	7.0	6.3	5.7	6.0	6.0	5.7	5.7	6.3	6.3	6.0
HIGH OCTANE	7.7	8.3	8.3	8.0	7.3	6.3	6.0	6.3	6.0	6.0	6.0	6.3	7.0	6.3
PPG-PR 644	8.0	8.7	8.3	7.5	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.7
LTP-NR	7.7	8.0	8.3	8.0	7.0	6.0	5.7	5.7	5.7	5.3	5.7	5.3	6.0	5.7
PPG-PR 606	8.3	8.3	7.7	8.0	7.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.0	6.3
PPG-PR 642	8.0	8.0	8.3	8.5	7.3	6.0	5.7	6.0	6.3	6.0	6.0	6.3	7.0	6.0
PST-2EGY	7.3	7.7	8.0	8.0	7.0	6.0	6.0	6.3	6.3	6.3	6.3	6.7	6.3	6.3
PVF-SGS5	8.0	8.3	8.3	7.3	7.0	6.0	6.0	5.7	5.7	5.7	6.0	6.3	5.7	5.7
SILETZ	8.0	8.3	8.0	7.7	7.3	6.0	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.3
DLF-PR-3728	7.7	8.3	8.3	7.7	7.3	6.3	6.0	7.0	6.7	6.3	6.3	6.3	6.3	6.3
PISTON	7.7	8.0	8.3	8.0	7.0	6.0	6.3	5.7	5.7	5.3	5.7	6.0	6.0	6.0
QUASAR	7.7	7.7	8.3	7.7	7.3	6.0	6.0	6.0	6.0	5.7	5.7	6.0	7.0	6.7
STELLAR 4GL	8.0	8.0	8.0	7.7	7.0	6.0	6.3	5.7	5.7	5.3	6.0	6.3	7.0	6.3
HOMERUN LS	8.0	8.3	8.7	7.7	7.7	6.0	6.0	5.7	5.7	5.3	6.0	6.0	6.7	6.7
PVF-RPP2	7.7	7.7	8.3	7.3	7.0	6.0	6.0	5.7	5.3	5.3	5.0	5.3	6.7	7.0
RPP3	8.0	8.0	8.3	7.3	7.0	6.0	6.0	6.3	6.0	5.7	5.7	5.7	6.7	7.0
BSG-PR22	8.0	7.7	8.3	7.3	7.0	6.0	5.7	5.7	5.7	5.7	5.3	5.7	5.7	5.0
DLF-PR-3729	7.3	8.0	8.3	7.7	7.0	6.3	5.7	6.3	6.0	6.0	5.3	6.0	6.0	5.5
PROMINENT II (TSC-CRS)	7.3	7.3	8.0	7.3	7.0	6.0	6.0	5.3	5.7	6.0	6.0	5.7	6.7	5.7
SEPR-2013	7.3	8.0	8.7	8.0	7.3	6.0	6.0	6.3	6.0	6.0	6.0	6.7	6.0	5.0
PPG-PR 658	8.0	8.0	8.0	7.3	7.0	6.3	6.0	6.3	6.7	6.3	6.0	5.7	7.7	6.7
FLIGHTLINE (PST-214)	8.3	8.3	8.7	7.7	7.0	6.0	6.0	6.0	6.0	5.3	5.3	5.0	6.0	6.3
PST-2E6	7.3	8.3	8.3	8.3	7.0	6.0	6.0	7.3	6.3	7.0	6.3	6.7	6.7	5.7
RC20-020	8.0	8.3	8.3	7.7	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.7	5.7
LINN	7.7	8.0	7.3	7.5	7.0	6.0	5.0	5.0	5.3	5.0	4.3	5.0	5.3	4.7
PPG-PR 620	8.3	8.7	8.7	8.3	7.3	6.7	6.3	6.0	6.0	6.3	6.0	6.3	7.0	6.7
LSD VALUE	2.5	1.2	1.1	2.3	0.8	1.5	2.1	1.5	1.8	1.6	1.5	2.6	1.7	1.9
C.V. (%)	7.7	5.7	5.3	7.9	4.8	6.8	9.1	11.1	9.8	10.4	9.6	11.8	11.1	12.9

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.

3/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

DENSITY RATINGS FOR THE SALT TREATMENT

NAME	FEB 17 6_dS	FEB 24 6_dS	MAR 6 6_dS	MAR 15 10_dS	MAR 20 10_dS	MAR 29 10_dS	APR 5 14_dS	APR 14 14_dS	APR 21 14_dS	APR 28 18_dS	MAY 5 18_dS	MAY 10 18_dS	MAY 22 22_dS	JUN 2 22_dS
DLF-LGT-3066	6.3	7.7	7.7	7.0	7.0	6.0	6.0	5.7	5.7	5.7	5.0	4.7	4.7	4.3
BAR LP 22256	8.3	8.7	8.3	8.0	7.0	6.0	5.7	5.3	5.3	5.7	4.7	4.7	4.7	4.0
GO-RUS22	8.0	8.3	8.3	7.7	8.0	6.3	6.3	6.7	5.7	5.7	5.3	5.0	5.0	5.0
GRAY EAGLE SLT (PST-2MEG)	8.0	8.0	8.3	7.7	7.0	6.0	6.7	6.0	5.3	4.7	4.7	4.7	5.3	5.0
PERFORMANCE (NAI-PR5)	8.0	8.3	8.7	7.7	7.0	6.0	6.3	6.0	5.3	4.7	5.3	5.0	5.0	5.3
PPG-PR 610	8.0	8.3	8.7	8.0	7.7	6.0	6.3	5.7	5.7	5.3	5.0	5.0	5.0	5.0
PPG-PR 639	8.0	8.3	8.7	8.3	7.3	6.0	6.3	6.0	5.7	5.7	4.7	5.0	5.0	4.3
PPG-PR 663	8.3	8.7	8.7	7.7	7.0	6.0	5.3	5.7	5.3	5.0	5.0	4.7	5.0	4.7
PPG-PR 668	8.3	8.3	9.0	8.3	7.3	6.0	6.3	5.7	5.7	5.7	5.3	5.0	5.3	5.3
SGP4	8.0	8.0	8.7	7.7	7.3	6.0	6.0	5.7	5.7	5.7	4.7	5.0	5.3	4.3
ALPHA CENTAURI	7.3	7.3	8.0	7.3	7.7	6.0	6.0	5.3	5.0	5.0	4.3	4.3	4.3	4.3
BRIGHTSTAR SLT	7.3	7.7	8.7	7.3	7.0	6.0	6.0	5.7	5.3	4.0	5.0	4.7	5.3	4.3
DLF-PR-3737	7.7	8.0	8.3	7.3	7.0	6.0	6.3	6.0	5.3	5.3	5.0	4.7	5.3	4.7
GO-RUS21	8.7	8.7	8.7	8.0	7.3	6.0	6.0	6.0	5.7	5.7	5.3	5.0	5.0	5.0
NEXUS DK (SE-DK)	7.0	7.7	8.0	7.0	7.0	6.0	5.7	5.3	5.3	5.0	4.7	4.7	4.3	4.3
PPG-PR 647	8.0	7.7	8.7	7.3	7.0	6.0	6.0	5.7	5.0	5.3	5.0	4.3	5.0	4.7
PPG-PR 670	7.7	8.3	8.3	7.7	7.0	6.0	5.7	5.3	5.0	4.3	4.3	4.3	4.3	4.3
RELIC (PPG-PR 611)	8.3	8.7	8.7	7.3	7.0	6.0	6.0	5.0	5.0	4.7	4.7	4.3	5.0	4.3
VORTEX SRT (PPG-PR 665)	8.3	8.7	8.0	7.7	7.0	6.0	6.0	6.0	5.3	5.7	5.0	5.0	5.3	5.0
BAR LP 22191	8.0	8.3	8.3	7.0	7.0	6.0	6.0	6.0	6.0	5.7	5.0	5.0	5.3	4.7
BAR LP 22262	7.3	7.0	8.0	7.0	6.7	5.7	5.7	5.3	5.0	5.0	4.7	4.3	5.0	4.0
DLF-PR-3735	8.0	8.3	8.0	7.7	7.0	6.0	5.7	5.3	5.3	5.0	5.0	5.0	5.0	4.3
LIGHTSPEED (PST-2DRG)	8.3	8.7	8.7	7.3	7.0	6.0	6.0	5.7	5.3	4.7	5.3	5.0	5.0	5.0
LTP-RPP4	8.0	8.3	8.7	7.7	7.3	6.0	6.0	5.7	5.3	5.3	5.0	4.7	5.0	4.7
PPG-PR 661	8.3	8.3	9.0	8.0	7.0	6.0	5.7	6.0	5.3	5.7	4.7	4.7	5.0	4.7
ULTRA SPORT (PST-2HAF20)	8.0	8.3	8.3	8.0	7.3	6.0	5.7	5.7	5.0	5.7	4.7	5.0	4.7	4.3
BAR LP 22263	8.0	8.0	8.7	7.3	7.0	6.0	6.3	5.7	5.3	5.0	5.0	4.7	5.0	4.3
PST-2HFM	8.0	8.0	8.7	7.7	7.3	6.0	6.3	5.3	5.3	4.7	5.0	4.7	5.0	4.3
DARK MATTER	7.7	7.7	8.7	7.3	7.0	6.0	6.0	5.7	5.3	5.0	4.7	4.7	5.0	4.7
20PR10	8.0	8.0	8.7	8.0	7.0	6.0	5.3	5.0	5.0	4.7	4.7	4.3	4.7	4.0
CJPIR	7.7	8.0	8.0	7.0	7.0	6.0	5.7	5.3	4.7	4.7	4.7	4.7	4.3	4.0
DLF-PR-3726	8.3	8.3	8.7	7.7	7.3	6.0	6.0	5.7	5.7	5.7	4.7	4.7	5.7	4.3
DLF-PR-3727	8.7	7.7	8.3	7.7	7.0	6.3	5.7	5.7	5.7	5.7	4.7	4.3	5.0	4.7
DLF-PR-3730	7.7	8.7	8.7	8.0	7.7	6.3	6.0	6.0	5.7	5.7	5.0	5.0	5.3	5.7
DLF-PR-3736	8.0	8.7	8.7	8.0	7.7	6.3	6.0	6.0	5.3	5.7	5.3	5.0	5.0	5.0
PPG-PR 671	8.0	8.3	8.7	8.0	7.0	6.0	6.3	6.0	5.7	5.0	4.7	4.7	5.0	5.0
GREENBACK	8.0	8.3	8.7	7.7	7.3	6.0	5.7	5.7	5.3	5.3	4.7	5.0	4.7	4.3
KARMA	8.0	8.3	8.7	7.7	7.3	6.0	6.0	5.7	5.0	5.7	5.0	5.0	5.0	4.7
PPG-PR 646	7.7	8.0	8.3	7.7	7.3	6.0	6.0	5.3	5.3	4.7	4.7	4.7	5.0	4.7
PPG-PR 664	8.0	8.3	8.7	8.0	7.3	6.0	6.0	6.0	5.3	5.7	5.3	5.0	5.3	5.0
PPG-PR 666	8.0	8.0	8.3	7.7	7.3	6.0	6.3	5.7	5.3	5.3	4.7	4.7	4.7	5.0
PST-2ADS	8.0	8.0	8.3	7.3	7.3	6.3	5.7	5.7	5.0	6.0	5.0	4.7	4.3	4.3
PST-2GDS	8.3	8.0	7.3	7.3	7.0	6.0	5.3	5.3	5.0	4.7	4.3	4.3	4.3	4.0
PST-2MES1	8.3	8.7	8.7	8.0	7.3	6.0	6.0	5.7	5.7	5.3	4.7	4.7	5.0	4.7
PPG-PR 637	8.0	8.0	8.7	7.3	7.0	6.0	6.3	6.0	5.7	5.3	5.3	5.0	5.0	4.7
PPG-PR 662	8.0	8.7	8.3	7.7	7.7	6.0	6.3	6.0	5.7	5.7	5.0	5.3	5.0	4.7
PPG-PR 667	8.3	8.3	8.7	7.7	7.3	6.3	7.0	6.3	6.0	5.7	5.3	5.3	5.3	4.3

TABLE 16. (CONT'D)		MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/ 2023 DATA													
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ DENSITY RATINGS FOR THE SALT TREATMENT															
NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds	
PS4	7.3	8.3	8.3	7.7	7.3	6.0	6.3	5.7	5.7	5.7	5.0	5.0	5.0	4.7	
APS	8.0	8.3	8.7	7.7	7.0	6.0	6.3	6.0	5.3	4.0	5.0	4.7	4.7	5.3	
GO-RUS20	8.3	8.0	8.3	7.3	7.0	6.0	5.7	6.0	5.3	4.7	5.7	5.0	5.0	4.7	
MRS-L-PR22	7.3	7.7	7.7	7.3	7.0	6.0	5.7	4.7	4.7	4.3	3.7	4.0	4.0	4.0	
PPG-PR 602	8.0	8.0	8.3	7.3	7.0	6.0	6.3	5.3	5.0	5.0	5.0	4.7	4.3	4.7	
PPG-PR 643	8.0	8.0	8.3	7.7	7.3	6.0	6.3	5.7	5.3	5.0	5.0	4.3	5.3	4.7	
PST-2BGL	7.7	8.7	8.7	8.0	7.7	6.0	6.0	6.0	5.3	5.0	4.7	5.0	5.0	4.3	
SUNDOWN (BY-PS2)	8.0	8.0	9.0	7.7	7.7	6.0	6.0	5.7	5.3	5.3	5.0	4.7	5.3	4.0	
PST-2SPF	8.0	8.0	8.7	7.3	7.7	6.0	6.0	5.7	5.3	5.7	5.0	4.7	5.0	4.7	
BAR LP 22174	8.0	8.3	9.0	7.7	7.0	6.0	5.7	5.7	5.0	5.0	4.7	4.3	4.7	4.3	
DLF-PR-3738	7.3	7.7	8.3	8.0	7.3	6.0	6.0	5.7	5.3	5.3	5.0	4.3	5.0	4.3	
HIGH OCTANE	7.7	8.0	8.3	7.3	7.0	6.0	5.7	5.3	5.3	5.0	4.3	4.3	4.0	4.3	
PPG-PR 644	8.0	8.3	8.3	7.3	7.0	6.0	6.3	5.7	5.3	5.0	5.3	5.0	5.0	5.0	
LTP-NR	7.7	8.3	8.3	7.7	7.3	6.0	5.7	5.3	4.7	4.7	4.3	4.7	4.7	4.0	
PPG-PR 606	8.3	8.0	8.7	7.7	7.3	6.0	6.0	5.3	5.3	5.0	4.7	4.7	4.7	4.0	
PPG-PR 642	8.0	8.3	9.0	7.3	7.0	6.0	6.0	5.7	5.0	5.3	4.3	4.3	5.0	4.3	
PST-2EGY	8.0	8.0	8.7	8.0	7.3	6.0	6.0	5.7	5.7	5.7	5.0	4.7	5.3	4.7	
PVF-SGS5	8.3	8.0	8.7	8.3	7.3	6.0	6.0	6.0	5.3	5.0	5.0	5.0	4.7	5.0	
SILETZ	8.0	8.7	8.7	7.7	7.3	6.0	5.7	5.7	5.7	5.3	5.0	5.0	5.0	4.7	
DLF-PR-3728	7.7	8.7	8.7	7.7	7.0	6.0	5.7	6.0	5.3	4.0	4.3	5.0	5.3	5.0	
PISTON	7.7	7.7	8.3	8.0	7.0	6.0	6.0	5.7	5.0	4.7	5.0	4.3	5.3	4.7	
QUASAR	7.3	7.7	8.7	7.3	7.3	6.0	6.3	5.7	5.3	4.3	4.3	4.0	4.3	4.7	
STELLAR 4GL	8.0	8.0	9.0	7.7	7.3	6.0	6.3	6.0	6.0	5.7	5.3	5.0	5.7	5.7	
HOMERUN LS	8.0	8.3	8.3	7.3	7.0	6.0	5.3	5.7	5.3	4.7	4.3	4.7	4.3	4.3	
PVF-RPP2	7.7	7.7	8.0	7.7	7.0	6.0	5.3	5.3	5.0	5.0	5.0	4.3	5.0	4.7	
RPP3	8.0	7.7	8.7	7.7	7.3	6.0	5.7	5.7	5.7	5.7	5.0	5.0	5.3	5.0	
BSG-PR22	8.0	8.0	8.0	7.7	7.0	5.7	5.7	5.0	5.0	4.7	4.3	4.3	4.3	4.0	
DLF-PR-3729	7.7	8.0	8.3	7.0	7.3	6.0	5.7	5.7	5.0	5.0	4.7	4.7	4.7	4.3	
PROMINENT II (TSC-CRS)	7.7	8.0	7.7	7.3	7.0	6.0	5.3	4.7	4.7	4.3	4.0	4.0	4.0	3.3	
SEPR-2013	7.7	8.3	8.7	7.7	7.3	6.3	6.0	5.7	5.0	5.7	5.3	5.0	5.3	4.7	
PPG-PR 658	8.3	8.7	8.7	8.0	7.3	6.0	6.3	6.0	5.3	4.0	5.0	5.0	5.3	4.3	
FLIGHTLINE (PST-214)	8.0	8.0	8.7	7.3	7.3	6.0	5.7	5.7	5.7	4.0	5.0	5.0	5.0	5.0	
PST-2E6	8.0	8.0	8.3	7.7	7.0	5.7	5.7	5.0	4.7	4.3	4.3	4.3	4.3	4.0	
RC20-02O	8.3	8.7	8.3	8.0	7.3	6.0	6.3	6.0	5.0	5.0	4.7	4.3	4.7	4.3	
LINN	7.3	7.3	8.0	6.7	6.7	6.0	5.7	5.3	4.7	4.7	3.7	4.0	4.0	4.0	
PPG-PR 620	8.3	8.0	8.3	7.0	7.3	5.7	5.7	4.7	4.7	4.3	4.0	4.0	4.0	3.5	
LSD VALUE	1.0	1.8	1.4	1.2	1.7	0.8	1.8	1.2	2.2	2.1	1.3	1.3	1.4	2.0	
C.V. (%)	6.0	7.0	5.7	6.3	5.9	3.4	8.9	8.8	10.4	14.9	11.1	10.0	11.6	14.2	

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

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

3/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT LEAF FIRING-CONTROL														
	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds	
DLF-LGT-3066	0.3	0.7	0.7	1.3	3.7	12.3	30.7	23.7	12.7	12.3	8.3	9.7	8.0	10.0	
BAR LP 22256	0.7	0.7	0.7	1.3	4.7	15.3	26.7	17.3	10.7	5.7	6.0	8.0	7.7	12.7	
GO-RUS22	1.3	0.7	1.3	2.7	5.7	14.0	30.3	27.7	18.0	18.3	13.3	21.3	9.3	10.3	
GRAY EAGLE SLT (PST-2MEG)	0.0	0.7	0.7	1.7	4.3	11.3	17.7	13.3	6.7	3.3	5.3	7.0	4.3	10.3	
PERFORMANCE (NAI-PR5)	0.7	1.0	0.0	2.3	5.3	12.3	21.7	17.0	11.3	7.3	8.0	10.0	5.0	11.0	
PPG-PR 610	0.7	0.7	1.3	2.3	4.3	12.7	31.3	17.3	10.0	6.0	5.7	7.0	4.3	11.0	
PPG-PR 639	1.3	1.7	1.3	2.7	5.3	15.7	33.7	25.0	17.3	15.3	13.0	12.3	5.0	7.3	
PPG-PR 663	0.7	0.0	1.3	1.3	3.3	14.0	31.0	41.0	38.0	32.7	35.3	27.0	19.0	12.3	
PPG-PR 668	0.7	0.0	0.0	2.3	4.0	12.0	16.7	14.3	12.7	9.3	10.3	15.3	8.0	11.3	
SGP4	1.0	0.7	0.0	1.7	5.0	12.7	27.0	22.3	10.3	5.3	4.7	7.3	4.3	10.3	
ALPHA CENTAURI	0.3	0.0	0.0	1.3	3.3	11.0	16.0	12.7	7.3	4.3	4.3	5.3	6.3	12.7	
BRIGHTSTAR SLT	0.7	0.0	1.3	2.0	4.3	13.0	19.0	13.0	8.3	7.7	8.0	9.3	5.3	10.3	
DLF-PR-3737	0.3	1.0	1.3	2.0	4.3	13.7	20.3	16.0	10.3	10.0	8.3	32.0	5.0	9.0	
GO-RUS21	0.0	0.7	0.0	2.3	4.0	12.3	32.3	32.0	25.7	22.7	12.7	13.0	5.3	10.7	
NEXUS DK (SE-DK)	0.7	0.7	1.3	2.7	4.7	15.0	38.7	32.7	23.3	23.7	16.7	15.7	5.7	11.3	
PPG-PR 647	1.0	0.7	0.7	2.0	4.7	13.7	29.0	16.0	10.0	6.0	9.3	10.7	4.7	9.3	
PPG-PR 670	0.7	0.7	0.0	1.7	3.0	7.3	20.7	16.7	16.0	15.7	10.7	12.0	6.7	11.7	
RELIC (PPG-PR 611)	0.7	0.7	0.0	2.7	4.7	15.0	30.0	29.0	21.7	19.3	10.0	11.3	5.0	7.3	
VORTEX SRT (PPG-PR 665)	0.0	0.0	0.0	2.0	4.0	9.7	39.0	13.3	8.7	4.0	6.0	9.3	6.0	12.0	
BAR LP 22191	1.0	0.0	4.0	2.0	4.3	9.0	22.0	26.0	23.7	17.0	10.7	8.0	7.3	11.0	
BAR LP 22262	1.3	2.0	1.3	2.3	5.0	16.0	39.3	19.7	12.0	10.3	9.0	9.3	6.7	12.7	
DLF-PR-3735	0.3	0.0	0.0	1.3	3.3	11.3	21.3	18.3	9.7	10.3	9.7	9.7	6.7	8.7	
LIGHTSPEED (PST-2DRG)	0.0	0.7	0.0	2.3	4.7	13.0	21.0	18.7	9.3	6.0	9.3	9.0	7.0	12.3	
LTP-RPP4	0.0	0.0	0.0	2.0	4.3	15.3	15.0	14.3	7.7	6.0	6.0	7.7	4.3	13.3	
PPG-PR 661	1.0	0.7	0.7	2.7	5.0	17.3	26.3	22.3	15.0	15.0	10.7	14.7	8.7	7.7	
ULTRA SPORT (PST-2HAF20)	0.3	0.0	0.7	1.7	3.7	12.7	20.0	13.3	6.7	4.3	4.3	8.0	5.7	11.0	
BAR LP 22263	0.3	0.7	1.3	1.7	3.7	11.3	18.0	16.0	12.3	10.7	10.3	15.3	9.3	10.7	
PST-2HFM	0.7	0.7	0.7	2.7	4.3	12.3	24.0	15.7	10.0	8.3	7.3	10.7	4.3	8.3	
DARK MATTER	0.7	0.0	1.0	1.0	5.3	11.7	16.0	19.3	13.7	12.7	9.0	12.0	17.0	11.3	
20PR10	1.0	1.7	1.3	2.7	5.7	18.0	30.0	16.7	12.7	7.7	6.3	8.7	7.3	9.3	
CJPIR	0.7	1.0	0.7	2.3	4.3	18.0	32.7	26.0	16.3	19.0	13.3	12.3	9.0	13.3	
DLF-PR-3726	0.7	0.0	0.7	2.3	4.0	11.7	23.7	13.3	9.0	6.7	7.7	8.0	6.7	9.0	
DLF-PR-3727	0.0	0.0	0.0	1.7	3.7	12.0	19.7	23.0	10.7	7.0	7.0	8.7	6.0	7.3	
DLF-PR-3730	1.0	0.7	1.3	2.7	3.3	11.0	21.0	21.7	11.0	5.3	4.3	6.7	3.3	8.3	
DLF-PR-3736	0.7	0.0	0.7	1.7	5.0	14.3	29.7	23.0	16.3	15.0	11.7	14.3	7.0	9.3	
PPG-PR 671	0.3	1.7	0.7	2.0	4.3	14.0	50.7	30.7	12.7	10.3	10.0	10.7	6.0	9.0	
GREENBACK	0.3	0.7	0.7	2.0	4.7	14.0	30.3	24.0	16.3	7.0	7.3	6.0	5.3	11.7	
KARMA	1.0	0.7	1.3	2.3	5.0	16.3	34.3	25.3	20.7	21.3	17.7	18.7	8.3	8.3	
PPG-PR 646	1.0	0.0	1.0	3.0	4.7	13.7	32.3	25.3	17.7	13.0	12.3	12.7	9.7	10.0	
PPG-PR 664	0.3	0.0	0.0	0.0	4.3	11.3	17.3	11.0	7.0	6.0	6.3	9.0	5.0	10.7	
PPG-PR 666	0.7	0.7	0.7	2.0	4.3	13.0	20.0	15.7	10.0	5.3	5.3	7.0	4.7	9.7	
PST-2ADS	1.0	1.7	1.3	2.3	6.0	15.7	24.0	14.0	7.7	5.3	5.0	6.7	8.7	17.7	
PST-2GDS	1.0	1.0	0.7	2.3	4.3	11.0	21.3	15.0	9.7	6.0	5.7	7.3	4.3	12.0	
PST-2MES1	0.3	0.0	0.0	1.7	4.3	11.0	22.7	19.7	15.0	10.7	8.7	9.0	7.3	9.3	
PPG-PR 637	0.7	0.0	0.7	1.3	4.3	15.3	19.7	19.0	11.3	11.0	7.7	11.0	4.7	7.7	
PPG-PR 662	0.7	1.0	0.0	2.7	4.0	13.0	24.7	19.7	14.0	6.3	6.7	8.7	4.7	6.3	
PPG-PR 667	0.0	0.0	0.0	0.7	4.0	10.0	13.0	13.7	7.3	6.3	7.7	7.3	4.7	8.3	

TABLE 16.		MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/ 2023 DATA												
		TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT LEAF FIRING-CONTROL 3/												
NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	0.7	0.7	0.0	1.3	5.0	12.3	16.7	12.7	8.3	4.0	5.3	8.7	4.0	7.7
APS	1.0	0.7	1.3	3.0	4.7	13.7	22.7	19.7	13.0	12.3	7.7	11.3	7.7	9.0
GO-RUS20	1.0	1.0	0.7	1.7	3.3	8.3	18.0	18.3	11.3	9.7	9.3	11.7	7.3	9.0
MRS-L-PR22	1.0	0.7	0.7	2.7	6.0	21.7	59.3	54.7	46.3	37.0	24.0	20.7	8.0	9.7
PPG-PR 602	0.3	0.7	0.7	1.7	4.0	9.3	11.7	14.7	9.3	6.0	7.0	8.7	6.7	7.3
PPG-PR 643	0.3	0.0	0.7	1.7	3.7	15.3	23.7	18.7	13.7	11.7	8.3	10.3	6.3	9.7
PST-2BGL	0.7	0.0	0.7	2.7	4.7	13.7	21.0	16.0	10.0	8.7	6.7	7.3	6.0	11.7
SUNDOWN (BY-PS2)	0.7	0.7	0.7	2.0	4.7	16.0	41.3	30.0	17.0	13.7	11.3	16.0	7.0	10.7
PST-2SPF	0.3	0.0	1.3	2.3	5.0	15.0	31.0	17.7	12.3	7.3	6.7	7.3	2.7	5.3
BAR LP 22174	0.3	0.7	2.7	1.7	4.0	15.3	23.3	17.7	13.3	8.3	7.0	8.3	4.7	8.7
DLF-PR-3738	1.3	0.7	1.0	1.3	4.7	13.0	23.0	28.3	19.0	18.3	18.7	18.3	10.0	9.7
HIGH OCTANE	0.7	0.0	0.7	2.7	5.3	13.0	25.3	19.3	14.3	8.0	7.3	8.0	4.7	30.0
PPG-PR 644	0.7	0.0	0.7	2.0	5.3	13.0	22.7	14.7	11.3	9.7	7.7	10.7	5.7	7.7
LTP-NR	1.0	1.3	0.7	2.7	6.3	19.0	38.3	27.7	16.3	14.3	15.7	13.0	7.0	10.0
PPG-PR 606	0.7	0.0	0.7	2.7	4.3	13.3	30.7	16.3	10.0	6.0	5.0	7.3	6.7	11.0
PPG-PR 642	0.3	0.7	0.7	2.3	4.3	13.0	29.0	15.7	9.7	7.3	6.3	8.7	4.7	10.0
PST-2EGY	1.3	1.3	0.7	2.7	5.7	12.0	27.3	14.3	7.3	5.0	4.7	6.7	5.0	14.0
PVF-SGS5	1.0	1.7	0.7	1.7	5.3	14.7	25.3	24.7	17.0	9.0	5.3	7.7	7.0	9.0
SILETZ	0.7	0.7	0.7	2.3	3.7	10.7	29.0	17.7	7.7	3.7	5.7	6.3	4.7	10.7
DLF-PR-3728	0.7	0.7	0.7	1.7	3.0	11.0	19.7	11.0	7.3	5.0	5.7	8.7	8.7	15.0
PISTON	1.0	0.7	0.7	2.7	5.7	15.0	42.0	32.0	28.0	20.3	14.0	18.0	15.7	14.3
QUASAR	0.7	1.3	0.0	2.7	4.0	12.7	27.7	20.3	11.7	10.0	11.0	13.7	4.7	6.0
STELLAR 4GL	1.0	1.7	3.3	2.7	5.7	17.3	43.3	32.7	24.3	19.7	10.0	8.3	4.0	8.7
HOMERUN LS	0.3	0.0	0.0	2.3	4.7	20.0	42.0	36.3	17.3	10.7	8.3	12.3	6.3	8.3
PVF-RPP2	1.0	1.7	1.3	3.0	5.3	19.7	27.0	23.7	17.0	19.7	20.0	21.0	8.7	6.0
RPP3	0.0	1.7	0.0	2.0	4.7	11.3	19.3	17.3	14.0	8.7	10.3	11.7	5.3	7.3
BSG-PR22	0.3	0.7	0.7	1.0	4.0	9.7	29.3	26.7	17.3	8.7	5.7	6.3	6.7	11.0
DLF-PR-3729	1.0	0.7	0.7	1.7	4.0	14.3	24.3	22.7	16.3	16.3	15.7	16.3	13.0	11.3
PROMINENT II (TSC-CRS)	0.7	1.0	3.3	2.0	5.3	16.7	28.7	27.0	14.0	7.0	7.3	7.3	4.7	11.0
SEPR-2013	1.0	0.7	0.0	1.3	4.0	14.3	21.3	13.3	7.0	6.7	5.0	8.0	7.0	12.0
PPG-PR 658	1.0	1.3	0.7	2.7	4.3	12.0	22.0	14.7	10.0	5.3	6.7	6.3	3.7	8.0
FLIGHTLINE (PST-214)	0.3	0.7	0.7	3.0	4.3	13.0	22.7	21.0	14.3	13.7	12.7	10.3	6.3	6.7
PST-2E6	0.7	0.7	1.3	2.3	5.0	13.3	20.0	14.3	8.7	5.7	4.7	8.0	7.0	13.0
RC20-02O	0.3	1.0	0.7	2.3	5.0	15.3	22.7	15.3	11.3	5.3	7.0	7.7	5.0	10.0
LINN	1.3	0.7	1.3	2.7	13.0	21.0	56.3	34.7	29.3	23.0	15.3	13.3	7.3	14.7
PPG-PR 620	0.0	0.0	0.0	0.0	4.7	9.0	19.0	13.7	9.0	5.3	5.3	7.7	5.0	6.3
LSD VALUE	2.6	3.9	5.3	2.8	8.8	14.1	33.6	34.7	37.7	34.3	28.2	23.5	16.3	16.2
C.V. (%)	97.5	147.7	167.5	45.7	44.7	32.0	48.4	55.4	78.3	95.6	85.5	67.5	67.6	47.9

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.

3/ PERCENT LEAF FIRING RATINGS: 0 INDICATES NO LEAF FIRING

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

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

PERCENT LEAF FIRING - FOR SALT TREATMENT

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	0.3	0.7	0.7	3.0	5.3	14.7	26.7	34.7	43.0	66.7	58.3	62.7	56.3	80.0
BAR LP 22256	0.7	0.7	0.0	2.0	4.0	12.0	27.7	44.3	56.0	76.7	81.3	83.0	69.0	85.3
GO-RUS22	0.7	0.7	0.0	3.0	6.0	12.0	25.0	32.3	51.0	58.0	72.7	83.7	71.7	88.0
GRAY EAGLE SLT (PST-2MEG)	0.7	0.7	0.7	3.3	5.7	20.7	39.7	45.3	55.3	59.3	69.7	73.7	79.3	75.7
PERFORMANCE (NAI-PR5)	0.7	1.0	1.7	3.7	5.7	21.7	43.7	54.0	73.0	83.7	77.0	84.0	78.0	83.7
PPG-PR 610	0.3	0.0	0.7	3.7	5.3	22.3	30.3	48.0	61.3	69.0	73.3	66.0	80.3	81.3
PPG-PR 639	0.7	0.7	0.0	2.3	5.0	22.0	35.0	40.7	82.7	59.7	68.3	70.3	72.0	89.0
PPG-PR 663	0.3	1.0	0.7	2.7	5.3	16.7	25.3	34.3	57.3	59.7	65.7	67.0	68.0	86.0
PPG-PR 668	0.7	0.7	0.0	3.3	4.3	14.0	33.3	45.0	62.7	71.3	83.0	84.7	80.7	85.3
SGP4	1.3	0.0	0.7	2.7	5.3	13.3	19.7	30.3	52.7	66.0	58.7	69.7	79.3	87.3
ALPHA CENTAURI	1.3	1.7	1.7	2.3	4.7	12.7	29.0	40.0	63.0	65.0	69.7	86.0	69.3	87.3
BRIGHTSTAR SLT	1.3	0.7	0.7	3.7	5.7	16.0	35.3	39.0	58.7	72.7	73.3	76.3	75.0	86.0
DLF-PR-3737	1.0	0.7	0.0	4.0	4.7	14.3	26.3	42.3	61.7	82.3	82.0	76.0	65.7	87.7
GO-RUS21	0.7	1.0	0.7	3.3	5.0	19.0	31.7	52.0	72.7	85.0	83.7	85.3	83.3	90.0
NEXUS DK (SE-DK)	0.7	0.7	2.0	3.0	6.0	18.0	33.3	44.7	49.3	70.3	72.3	66.0	79.0	90.0
PPG-PR 647	1.0	1.0	1.3	3.0	6.3	15.0	37.0	42.7	64.3	80.7	84.3	81.3	78.7	91.7
PPG-PR 670	1.0	0.7	0.7	3.7	6.0	22.7	40.0	55.0	66.7	71.3	78.3	76.7	80.7	88.0
RELIC (PPG-PR 611)	0.7	0.0	1.0	3.3	4.3	18.3	33.7	37.0	67.7	80.3	73.7	83.3	84.7	89.7
VORTEX SRT (PPG-PR 665)	1.0	0.0	0.7	3.0	4.0	15.0	33.0	39.7	57.0	63.0	68.0	72.3	80.7	91.5
BAR LP 22191	1.3	1.0	0.7	3.7	5.0	18.3	40.7	50.0	70.7	72.3	86.3	84.7	74.0	87.0
BAR LP 22262	1.3	0.7	2.0	3.0	5.3	20.7	31.3	39.0	57.3	62.0	71.3	59.3	66.7	79.3
DLF-PR-3735	1.0	0.0	0.0	2.3	5.3	22.3	32.0	44.7	62.3	68.7	78.7	77.3	82.3	90.3
LIGHTSPEED (PST-2DRG)	1.0	0.0	2.3	4.0	7.0	28.7	31.3	41.0	66.0	68.0	71.3	87.0	85.7	91.3
LTP-RPP4	0.7	1.0	0.0	2.3	5.7	19.0	35.0	54.3	83.3	87.7	89.3	88.7	85.0	91.3
PPG-PR 661	0.7	0.0	0.0	2.7	5.0	13.0	36.7	52.3	64.7	66.3	68.7	72.0	68.7	82.7
ULTRA SPORT (PST-2HAF20)	1.0	1.0	1.3	1.7	3.3	13.3	29.0	47.0	61.0	79.0	83.3	81.7	84.0	90.3
BAR LP 22263	1.0	1.7	1.7	2.7	5.7	15.0	26.3	33.0	52.0	56.0	71.3	63.3	76.7	80.3
PST-2HEM	0.7	0.0	0.7	3.0	5.7	35.7	48.0	54.3	62.0	69.3	75.7	85.3	82.7	86.0
DARK MATTER	0.3	1.0	1.3	3.3	5.0	24.0	42.7	62.7	65.0	84.0	77.0	77.3	80.0	91.3
20PR10	0.7	0.7	0.7	2.7	5.0	28.3	55.0	56.0	73.3	75.3	83.0	84.0	81.0	89.0
CJPIR	0.7	1.0	3.0	3.3	8.3	24.7	56.3	55.7	71.0	85.7	84.7	88.0	92.0	94.3
DLF-PR-3726	1.0	1.0	0.7	3.0	5.7	14.3	34.3	52.7	64.3	66.0	68.7	70.3	85.0	92.5
DLF-PR-3727	1.0	0.7	2.0	3.3	5.7	11.3	29.7	36.0	71.0	55.3	56.7	65.7	67.0	89.3
DLF-PR-3730	1.3	0.0	1.3	2.7	5.0	12.0	32.0	36.7	66.7	87.3	87.3	88.3	86.7	90.5
DLF-PR-3736	0.7	0.7	0.0	3.0	5.7	14.7	43.3	52.7	57.3	64.7	86.3	77.3	76.7	85.3
PPG-PR 671	1.0	1.0	1.7	4.0	6.0	24.7	30.7	40.0	65.0	82.7	85.7	88.7	83.0	91.3
GREENBACK	1.0	0.0	2.3	2.7	6.3	17.7	37.3	64.0	78.3	88.0	89.7	80.3	86.7	91.3
KARMA	0.3	0.7	0.7	2.3	4.7	16.0	39.7	52.0	72.0	81.3	80.3	77.3	84.7	90.0
PPG-PR 646	0.7	0.0	1.3	4.3	5.0	24.7	33.7	47.3	58.3	64.7	68.3	63.0	80.3	83.7
PPG-PR 664	0.7	0.0	2.3	3.3	3.7	22.0	46.0	66.7	71.7	76.3	78.7	80.3	77.0	83.0
PPG-PR 666	0.3	1.0	0.7	3.7	6.0	15.7	37.3	41.0	55.7	67.3	78.3	73.3	80.0	89.3
PST-2ADS	0.7	0.7	1.7	2.3	6.0	18.0	41.0	49.7	67.7	68.3	69.3	74.0	87.0	94.7
PST-2GDS	0.7	0.0	2.3	3.0	7.7	21.3	39.7	55.3	70.7	72.0	73.0	87.0	74.3	98.0
PST-2MES1	0.3	0.7	0.7	2.3	5.0	16.0	32.3	44.7	61.7	65.3	69.7	65.7	84.7	92.3
PPG-PR 637	0.3	0.0	0.7	3.3	4.3	17.0	30.3	40.0	61.0	84.0	82.0	81.3	70.7	84.7
PPG-PR 662	0.7	0.7	0.0	2.0	4.0	9.7	25.0	40.0	54.0	65.0	65.0	72.3	72.7	84.3
PPG-PR 667	1.0	1.0	0.7	2.7	4.7	11.3	29.3	42.0	53.0	44.3	53.3	57.3	63.0	84.7

TABLE 16. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/ 2023 DATA														
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT LEAF FIRING - FOR SALT TREATMENT 3/														
NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	0.3	0.0	0.0	3.7	5.0	16.7	35.7	45.7	59.0	66.3	70.0	74.0	78.7	93.7
APS	0.7	0.7	1.0	3.3	6.7	19.3	41.3	51.7	69.7	75.7	85.3	88.3	87.3	93.3
GO-RUS20	1.0	1.0	2.3	4.7	11.7	31.0	47.0	56.3	65.3	71.0	77.0	84.7	86.3	89.7
MRS�-PR22	1.7	0.7	0.7	3.3	5.0	22.7	44.3	50.3	78.3	88.0	85.0	90.7	84.7	94.3
PPG-PR 602	0.7	0.0	1.7	3.0	5.7	13.0	37.3	46.7	64.0	82.3	86.0	91.3	88.7	91.7
PPG-PR 643	1.0	0.7	0.7	4.0	5.7	19.3	40.0	49.0	62.0	88.0	81.7	85.7	84.7	94.7
PST-2BGL	0.7	0.7	0.0	3.3	5.7	17.3	43.0	58.0	76.3	89.0	91.3	92.3	87.7	93.3
SUNDOWN (BY-PS2)	0.7	0.0	0.0	2.7	4.7	24.3	44.0	64.0	78.7	81.7	87.3	90.0	83.7	93.3
PST-2SPF	0.7	0.7	0.7	3.3	4.3	18.0	45.7	54.7	58.3	81.0	78.0	79.0	71.7	90.3
BAR LP 22174	0.7	1.0	0.7	3.0	4.0	25.3	54.3	66.0	68.7	77.3	83.0	89.7	89.0	90.3
DLF-PR-3738	1.0	0.7	0.7	2.0	4.3	17.7	30.7	53.0	67.0	75.3	75.7	88.7	86.7	95.7
HIGH OCTANE	0.7	0.7	0.0	3.0	7.7	30.7	48.0	64.0	77.3	80.0	84.7	89.7	86.7	92.0
PPG-PR 644	1.3	1.0	0.7	3.7	6.3	30.0	52.3	61.0	85.3	88.7	95.3	93.3	92.7	93.7
LTP-NR	1.0	1.0	1.3	3.3	7.3	29.7	55.7	50.0	68.0	79.7	83.0	81.3	82.0	96.0
PPG-PR 606	0.7	0.7	0.7	2.7	4.7	23.0	44.7	63.7	62.3	65.0	70.7	82.3	82.0	91.0
PPG-PR 642	0.3	0.7	0.7	2.7	4.7	21.7	48.7	46.7	66.7	70.0	83.0	83.0	85.3	93.0
PST-2EGY	1.3	0.0	0.7	3.0	6.0	26.0	38.3	58.3	72.0	78.0	85.7	87.7	86.7	94.0
PVF-SGS5	0.7	0.0	0.7	3.3	6.0	13.7	29.0	43.7	63.3	66.0	80.3	78.7	77.3	91.0
SILETZ	0.7	0.7	0.0	2.7	5.0	18.3	34.7	59.7	69.0	79.0	89.3	85.0	85.7	92.7
DLF-PR-3728	0.3	0.0	0.0	2.3	7.0	19.3	44.0	51.3	68.0	71.0	79.3	81.0	83.0	92.3
PISTON	0.7	1.0	1.3	2.7	5.0	22.0	41.7	52.3	74.7	86.0	88.7	90.3	88.3	93.0
QUASAR	1.3	1.0	0.7	3.0	5.7	14.7	33.3	38.3	62.0	66.3	69.0	78.7	77.0	90.7
STELLAR 4GL	1.0	1.0	1.7	3.3	5.7	25.0	39.0	51.3	70.3	77.7	84.3	82.0	80.3	94.0
HOMERUN LS	1.3	0.0	1.3	3.3	6.0	33.7	55.0	60.3	69.7	75.3	85.3	89.3	86.7	97.0
PVF-RPP2	1.3	0.7	1.3	3.0	5.3	20.3	40.7	52.0	72.7	80.3	85.7	88.7	84.7	94.0
RPP3	0.3	0.7	1.3	3.7	7.3	29.3	35.3	41.7	63.7	64.0	70.3	71.0	81.3	91.0
BSG-PR22	0.7	0.0	1.3	3.0	5.7	31.3	51.7	73.3	77.3	89.3	88.7	90.7	88.0	93.0
DLF-PR-3729	1.0	1.0	1.3	3.3	5.3	16.7	41.3	56.3	73.3	65.0	80.5	64.5	70.0	92.0
PROMINENT II (TSC-CRS)	0.7	0.0	0.7	2.7	5.0	23.7	44.0	66.3	88.3	90.0	87.5	89.3	89.7	91.0
SEPR-2013	1.0	1.0	0.0	2.3	4.7	15.0	51.0	60.0	78.0	71.5	88.5	87.5	87.0	92.5
PPG-PR 658	0.7	1.0	0.7	3.3	7.3	15.7	42.0	54.0	79.7	83.3	87.7	88.0	87.3	93.0
FLIGHTLINE (PST-214)	1.3	1.7	1.7	3.3	5.7	26.3	57.3	69.3	87.0	85.7	93.7	93.7	87.7	93.0
PST-2E6	0.7	0.0	1.3	3.0	5.3	31.0	65.0	81.0	89.0	85.7	92.0	91.7	72.3	93.0
RC20-02O	0.3	1.0	1.7	4.0	10.0	24.7	62.7	71.3	82.3	91.0	92.3	92.3	94.0	98.3
LINN	1.0	0.7	2.0	2.7	17.7	31.0	59.3	66.3	73.3	72.3	83.7	89.3	88.0	90.0
PPG-PR 620	0.3	1.3	1.7	4.0	7.3	28.3	49.3	57.3	69.3	76.7	79.7	77.7	86.7	89.5
LSD VALUE	2.2	5.6	3.5	6.0	10.5	35.0	37.9	40.6	45.5	67.4	45.7	31.5	49.1	28.2
C.V. (%)	69.0	157.7	117.0	36.9	51.7	48.9	35.4	29.8	21.6	22.4	17.8	15.5	15.5	7.9

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.

3/ PERCENT LEAF FIRING RATINGS: 0 INDICATES NO LEAF FIRING

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/															
NAME	CLIPPING YIELD (MG) CONTROL					CLIPPING YIELD (MG) DURING TREATMENT					% TREATMENT CLIPPING YIELD OVER CONTROL				
	MAR 6 6_ds	MAR 29 10_ds	APR 21 14_ds	MAY 10 18_ds	MAY 31 22_ds	MAR 6 6_ds	MAR 29 10_ds	APR 21 14_ds	MAY 10 18_ds	MAY 31 22_ds	MAR 6 6_ds	MAR 29 10_ds	APR 21 14_ds	MAY 10 18_ds	MAY 31 22_ds
DLF-LGT-3066	143.3	76.0	142.3	176.0	73.7	103.3	59.7	62.0	41.3	19.3	72.7	78.0	47.3	24.0	25.3
BAR LP 22256	156.7	84.0	163.3	190.7	70.0	123.3	35.3	34.7	22.3	13.0	80.0	47.3	22.3	13.3	24.0
GO-RUS22	136.7	79.7	123.3	149.3	70.0	133.3	53.0	55.7	22.7	21.7	98.7	76.0	57.0	14.7	40.7
GRAY EAGLE SLT (PST-2MEG)	160.0	70.3	202.3	200.0	58.0	113.3	49.3	31.0	18.7	11.3	73.7	71.0	18.3	9.7	23.7
PERFORMANCE (NAI-PR5)	166.7	74.0	142.7	165.0	66.0	136.7	42.3	46.7	31.7	10.3	84.0	74.3	36.3	24.3	25.0
PPG-PR 610	140.0	59.3	168.0	147.3	39.7	123.3	50.7	43.7	28.0	12.0	92.7	85.3	25.3	20.0	31.0
PPG-PR 639	160.0	60.0	148.0	173.3	110.0	140.0	49.0	48.3	53.0	7.7	87.0	110.0	34.3	33.3	14.7
PPG-PR 663	150.0	55.0	139.3	119.0	72.0	123.3	62.7	56.0	40.0	14.7	88.3	181.7	16.0	50.3	28.3
PPG-PR 668	170.0	116.3	203.0	169.7	112.7	150.0	55.3	55.7	32.0	11.7	94.0	81.3	33.7	19.3	24.3
SGP4	136.7	168.7	173.0	171.7	49.3	120.0	58.3	79.3	38.0	26.3	90.7	48.0	48.3	21.3	61.7
ALPHA CENTAURI	143.3	76.7	171.0	140.0	56.3	126.7	51.0	29.3	19.3	11.3	89.0	69.3	18.7	14.7	31.7
BRIGHTSTAR SLT	153.3	89.3	178.3	160.7	85.0	106.7	46.0	41.3	37.3	12.3	70.3	54.7	25.7	27.0	20.7
DLF-PR-3737	170.0	135.0	150.0	177.7	72.3	113.3	51.7	52.3	40.3	18.0	65.7	41.7	33.3	25.0	37.3
GO-RUS21	133.3	61.3	117.3	121.0	43.7	146.7	42.7	35.0	27.3	16.3	112.7	96.7	38.7	23.7	42.3
NEXUS DK (SE-DK)	116.7	50.0	99.3	149.7	93.0	106.7	34.7	38.3	23.7	19.0	90.7	76.7	36.0	16.3	25.3
PPG-PR 647	136.7	75.3	159.0	150.0	89.0	120.0	82.0	32.0	26.0	11.3	94.0	119.0	20.0	16.7	17.7
PPG-PR 670	146.7	107.7	177.3	158.0	65.3	133.3	35.7	20.3	29.0	20.0	92.7	36.0	13.7	19.0	31.3
RELIC (PPG-PR 611)	150.0	66.7	116.3	165.7	75.3	110.0	39.3	32.3	23.7	12.0	74.0	67.3	23.7	15.0	26.3
VORTEX SRT (PPG-PR 665)	156.7	94.0	212.3	152.7	46.3	123.3	44.3	37.3	20.3	14.3	79.7	47.0	18.0	13.7	43.7
BAR LP 22191	126.7	77.7	117.3	142.0	48.7	123.3	44.0	33.7	23.0	11.3	101.7	56.3	33.7	17.3	30.7
BAR LP 22262	120.0	45.7	135.0	157.3	57.7	73.3	49.3	37.7	20.0	20.7	61.0	107.0	28.0	14.0	38.7
DLF-PR-3735	120.0	72.0	153.7	170.3	69.3	110.0	35.3	36.7	23.7	8.0	98.0	54.3	24.3	15.0	15.3
LIGHTSPEED (PST-2DRG)	150.0	74.7	149.0	152.3	56.3	120.0	50.0	40.7	26.7	13.7	86.0	84.0	39.3	17.7	23.3
LTP-RPP4	143.3	80.3	166.0	126.3	50.0	130.0	51.0	32.7	28.3	10.0	92.3	82.3	19.3	25.3	28.0
PPG-PR 661	190.0	71.7	160.3	253.7	85.3	156.7	74.3	63.0	30.0	12.3	84.7	133.7	42.3	14.0	17.7
ULTRA SPORT (PST-2HAF20)	133.3	60.3	180.7	142.3	45.7	120.0	41.3	44.3	24.0	16.7	89.7	78.0	25.0	17.3	36.3
BAR LP 22263	180.0	79.7	162.7	148.0	93.3	96.7	52.3	49.3	40.3	14.0	53.7	72.3	33.0	28.0	15.3
PST-2HFM	130.0	82.7	153.0	196.0	95.7	80.0	37.7	40.7	28.7	9.3	61.3	45.3	24.3	14.0	9.3
DARK MATTER	143.3	118.0	156.3	144.0	62.3	110.0	48.0	36.0	31.7	18.7	83.3	65.3	30.7	25.0	34.3
20PR10	150.0	52.3	140.0	134.0	73.7	120.0	47.0	38.7	21.3	7.3	80.7	103.7	24.0	19.0	25.3
CJP1R	130.0	55.3	109.7	157.3	54.3	113.3	39.7	30.7	11.7	7.3	93.3	75.3	30.0	8.0	17.7
DLF-PR-3726	160.0	73.3	172.7	157.7	45.7	126.7	58.7	37.3	22.7	12.3	80.3	80.0	20.7	16.7	34.3
DLF-PR-3727	143.3	52.7	177.7	167.7	71.7	120.0	60.7	47.7	25.7	10.7	92.0	116.3	25.0	15.0	20.0
DLF-PR-3730	140.0	68.0	167.7	146.7	40.0	106.7	56.3	39.7	13.7	12.3	76.0	94.7	24.0	10.7	31.3
DLF-PR-3736	153.3	63.0	162.7	179.7	145.3	140.0	43.3	26.3	13.3	6.0	91.3	78.7	16.0	7.0	6.7
PPG-PR 671	156.7	71.0	183.0	200.3	91.7	120.0	36.3	39.3	23.7	7.3	80.0	56.3	21.7	11.3	14.3
GREENBACK	156.7	52.3	134.3	149.7	42.0	130.0	29.7	17.0	14.3	11.7	84.7	65.3	12.0	10.0	30.3
KARMA	143.3	52.7	96.0	149.3	87.7	140.0	67.3	49.7	21.0	10.0	97.7	171.7	64.7	14.3	17.3
PPG-PR 646	143.3	57.7	140.7	187.3	76.7	100.0	36.3	40.0	27.3	11.0	69.3	61.7	27.3	14.0	21.3
PPG-PR 664	183.3	76.7	222.0	166.7	44.7	120.0	32.3	25.7	20.3	12.0	65.7	46.0	11.0	14.3	32.7
PPG-PR 666	163.3	88.0	164.3	169.3	55.7	116.7	36.0	44.7	27.7	9.0	72.7	45.0	26.7	16.0	15.3
PST-2ADS	150.0	77.7	183.3	161.0	44.3	123.3	55.3	39.0	24.3	10.7	81.7	73.3	21.7	16.0	24.7
PST-2GDS	150.0	48.0	168.7	152.0	55.3	90.0	33.3	23.0	19.0	12.0	62.7	77.3	14.7	14.7	28.7
PST-2MES1	183.3	66.0	179.0	180.0	49.3	123.3	51.7	34.3	23.0	10.7	68.7	85.0	18.0	13.3	25.7
PPG-PR 637	156.7	76.7	159.7	169.7	70.0	113.3	58.3	44.3	25.0	13.7	75.3	75.3	27.0	14.7	19.7
PPG-PR 662	130.0	61.7	164.3	182.7	94.3	116.7	53.3	48.0	35.0	14.7	89.7	102.0	27.7	19.7	23.3
PPG-PR 667	183.3	78.0	202.7	159.7	99.3	133.3	45.3	98.3	46.0	8.7	72.7	60.0	46.0	33.0	29.0

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SALT STRESS IN THE GREENHOUSE AT FORT COLLINS, CO 1/
2023 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/															
NAME	CLIPPING YIELD (MG) CONTROL					CLIPPING YIELD (MG) DURING TREATMENT					% TREATMENT CLIPPING YIELD OVER CONTROL				
	MAR 6 6_ds	MAR 29 10_ds	APR 21 14 ds	MAY 10 18_ds	MAY 31 22_ds	MAR 6 6_ds	MAR 29 10_ds	APR 21 14 ds	MAY 10 18_ds	MAY 31 22_ds	MAR 6 6_ds	MAR 29 10_ds	APR 21 14 ds	MAY 10 18_ds	MAY 31 22_ds
PS4	146.7	63.3	169.7	159.3	57.3	136.7	49.7	56.7	35.7	8.7	94.3	105.7	33.0	23.0	15.7
APS	136.7	76.3	171.3	160.3	82.0	130.0	48.3	32.0	20.3	9.3	95.7	68.7	21.0	12.7	12.0
GO-RUS20	156.7	108.3	195.3	201.3	106.7	116.7	44.3	47.7	21.0	10.3	85.7	46.0	29.7	10.7	8.3
MRS�-PR22	116.7	30.3	57.3	107.7	40.0	106.7	32.3	20.7	11.7	3.3	97.7	117.7	45.0	11.0	17.7
PPG-PR 602	143.3	78.0	163.0	137.0	56.3	136.7	48.3	32.3	16.7	6.0	96.0	63.7	19.7	14.7	21.7
PPG-PR 643	126.7	82.3	134.7	170.7	76.3	120.0	44.7	24.3	26.3	8.3	94.7	69.7	17.7	14.3	10.0
PST-2BGL	153.3	70.0	156.3	180.0	56.7	113.3	31.7	15.7	8.7	2.7	78.7	49.0	10.3	4.7	6.0
SUNDOWN (BY-PS2)	176.7	62.7	128.0	128.3	43.7	126.7	41.3	39.0	26.7	10.7	75.0	65.3	34.0	22.7	24.7
PST-2SPF	106.7	56.3	114.7	135.0	55.7	80.0	42.7	36.7	22.0	15.3	75.7	78.3	31.0	16.0	30.7
BAR LP 22174	146.7	65.0	136.3	178.0	59.7	110.0	28.7	21.3	20.0	11.3	75.7	80.3	16.3	13.3	30.7
DLF-PR-3738	160.0	75.7	141.7	121.3	109.3	120.0	46.7	25.0	24.3	16.7	78.3	76.0	17.3	22.3	25.7
HIGH OCTANE	163.3	77.7	139.3	169.0	63.3	110.0	40.7	35.7	20.3	7.7	70.0	53.3	22.7	13.0	12.0
PPG-PR 644	156.7	74.0	177.7	180.7	110.3	103.3	36.3	25.3	14.0	2.3	67.7	51.0	14.3	7.3	2.0
LTP-NR	160.0	46.0	134.7	167.3	67.0	96.7	32.3	30.0	18.3	5.3	63.3	83.7	25.3	11.7	9.3
PPG-PR 606	143.3	75.0	155.3	135.0	48.0	113.3	37.0	27.7	26.3	15.3	79.0	56.3	18.7	21.0	28.7
PPG-PR 642	140.0	65.3	153.0	148.3	42.7	116.7	37.3	31.7	28.7	17.7	85.0	59.0	21.0	23.0	50.0
PST-2EGY	130.0	65.7	145.0	133.7	41.7	136.7	46.3	31.7	20.3	9.3	106.3	72.7	21.0	14.3	24.7
PVF-SGS5	143.3	68.0	150.7	193.3	58.0	150.0	58.7	51.0	25.3	11.0	106.0	85.7	39.0	15.3	22.3
SILETZ	130.0	75.0	163.3	154.0	60.3	136.7	57.7	32.3	21.0	15.7	108.7	79.7	19.0	16.7	38.3
DLF-PR-3728	136.7	100.7	196.7	143.0	34.7	146.7	41.3	27.7	31.0	9.0	109.3	41.0	14.3	21.7	29.7
PISTON	146.7	53.0	109.0	128.0	50.3	113.3	29.0	16.7	16.3	3.3	77.7	60.3	21.7	16.3	8.3
QUASAR	130.0	71.7	132.7	168.7	163.7	120.0	43.0	27.3	29.7	8.3	93.3	60.0	20.7	18.0	18.3
STELLAR 4GL	113.3	64.0	106.0	167.3	94.7	126.7	45.7	40.7	36.0	11.3	114.0	80.3	37.0	25.3	18.3
HOMERUN LS	163.3	59.3	115.0	157.7	86.7	90.0	37.3	24.0	20.0	14.7	56.7	62.3	20.3	13.0	15.3
PVF-RPP2	123.3	55.3	83.0	120.0	135.7	123.3	32.7	20.0	21.3	5.3	102.3	59.7	23.7	17.7	8.0
RPP3	136.7	67.0	149.3	193.7	124.3	110.0	43.7	54.0	23.3	8.3	81.3	72.7	31.7	11.3	8.7
BSG-PR22	126.7	61.3	130.3	127.7	37.7	106.7	29.3	14.7	14.3	11.0	87.7	48.7	10.0	12.0	31.0
DLF-PR-3729	160.0	79.7	183.0	126.0	90.7	106.7	35.0	31.7	20.3	12.7	66.7	49.7	16.0	18.3	31.0
PROMINENT II (TSC-CRS)	113.3	40.0	150.0	148.7	52.7	126.7	24.7	10.0	9.7	3.7	112.7	66.3	6.0	6.3	8.0
SEPR-2013	143.3	63.0	123.3	109.0	37.0	130.0	61.0	39.3	15.3	14.0	91.0	95.7	32.3	16.0	42.7
PPG-PR 658	150.0	58.7	149.7	160.3	56.3	140.0	40.0	20.3	15.7	3.7	97.3	66.0	18.0	9.3	12.7
FLIGHTLINE (PST-214)	146.7	76.3	131.7	140.7	68.7	126.7	37.0	25.3	15.3	10.0	87.7	49.3	19.0	10.7	27.3
PST-2E6	156.7	66.3	186.7	158.0	41.0	106.7	24.0	8.7	9.0	9.0	70.3	36.0	5.0	5.7	20.7
RC20-020	146.7	72.3	155.3	137.0	49.7	130.0	47.0	13.0	7.0	5.7	91.7	68.3	8.7	5.7	14.3
LINN	166.7	82.7	115.0	165.7	68.7	123.3	38.3	43.0	22.0	14.3	74.0	52.7	60.7	14.7	26.3
PPG-PR 620	163.3	77.0	166.0	186.0	104.3	96.7	30.3	19.0	9.7	2.3	62.0	40.7	11.3	5.3	4.7
LSD VALUE	90.4	88.2	131.7	101.5	135.6	48.3	58.7	69.4	41.1	31.2	70.3	174.4	76.4	45.3	106.1
C.V. (%)	18.6	41.7	29.3	22.6	59.4	17.7	38.9	61.8	55.8	70.0	25.6	60.7	76.2	71.4	89.6

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

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

TABLE 17.

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										MEAN
	CT1	IA1	IN1	MN1	NE1	NJ2	OH1	ON1	OR1	QE1	
PST-2SPF	7.0	7.0	7.7	8.0	8.0	8.3	9.0	8.0	8.3	6.0	7.7
MRS1-PR22	7.0	7.0	8.0	6.0	8.0	8.7	8.0	8.0	9.0	6.7	7.6
BSG-PR22	6.7	7.0	8.0	5.7	8.0	9.0	8.7	8.0	9.0	5.7	7.6
NEXUS DK (SE-DK)	7.0	5.7	7.3	6.0	8.0	9.0	8.0	8.0	8.7	6.3	7.4
PROMINENT II (TSC-CRS)	6.7	5.3	7.0	6.7	8.0	9.0	7.7	8.0	8.3	5.0	7.2
DARK MATTER	6.3	6.0	8.0	5.0	8.0	8.7	7.7	8.0	8.0	5.7	7.1
GRAY EAGLE SLT (PST-2MEG)	6.7	5.7	7.0	7.0	8.0	8.0	7.7	7.7	8.3	5.3	7.1
ULTRA SPORT (PST-2HAF20)	7.0	4.0	7.0	7.0	8.0	7.7	8.0	7.7	8.3	6.0	7.1
PPG-PR 620	6.3	5.0	6.3	8.0	7.3	8.0	7.3	8.0	8.0	5.7	7.0
GREENBACK	6.0	7.0	7.3	4.7	7.3	9.0	7.7	7.0	8.0	6.0	7.0
PPG-PR 664	6.3	5.0	7.0	6.3	7.7	8.3	7.7	7.3	8.7	5.7	7.0
DLF-PR-3738	6.0	5.7	6.7	8.0	7.3	7.7	7.0	7.0	8.0	6.3	7.0
PPG-PR 646	6.0	6.7	5.7	8.3	7.7	7.3	7.0	7.3	8.3	5.3	7.0
FLIGHTLINE (PST-214)	6.7	4.3	7.3	7.3	6.7	8.0	7.7	7.3	8.3	6.0	7.0
PPG-PR 606	6.7	5.3	7.0	6.3	7.7	8.3	7.7	7.3	8.3	4.7	6.9
DLF-PR-3735	6.3	6.7	6.3	8.0	7.3	7.0	7.0	7.3	8.0	5.3	6.9
SEPR-2013	5.7	6.7	6.7	5.0	8.0	9.0	7.3	7.3	8.3	5.3	6.9
PPG-PR 658	6.3	4.3	6.7	7.3	7.0	8.0	7.3	7.3	8.3	6.3	6.9
PPG-PR 639	6.7	5.0	7.0	6.0	7.3	7.7	7.7	7.0	8.3	6.3	6.9
PPG-PR 670	6.3	4.7	7.0	7.0	7.3	8.0	7.7	7.3	8.0	5.7	6.9
PST-2HFM	6.3	5.7	6.7	7.0	7.7	8.0	7.0	7.3	8.3	5.0	6.9
PPG-PR 662	6.7	5.3	7.3	5.7	8.0	6.3	8.0	7.3	7.7	6.3	6.9
PST-2BGL	6.0	4.3	6.7	6.7	7.3	8.3	7.0	7.7	8.3	6.3	6.9
PVF-RPP2	6.0	6.0	5.7	8.0	7.0	7.7	7.0	8.0	8.0	5.3	6.9
CJP1R	6.0	5.7	5.7	7.7	7.3	8.0	7.0	7.0	8.0	5.7	6.8
PPG-PR 671	6.7	4.3	7.0	6.0	7.7	8.0	8.0	7.3	8.0	5.0	6.8
PISTON	6.0	5.7	6.3	7.3	7.7	7.7	7.0	7.3	7.7	5.3	6.8
ALPHA CENTAURI	6.0	5.7	6.7	6.0	7.3	7.3	7.7	7.0	8.0	6.0	6.8
DLF-PR-3728	6.0	6.7	6.0	6.7	7.0	7.3	7.0	7.3	8.0	5.3	6.7
PPG-PR 663	6.3	4.3	6.3	6.3	7.0	8.0	7.7	7.0	8.0	6.3	6.7
PPG-PR 668	6.0	4.0	7.3	6.0	7.3	7.7	8.0	7.3	7.7	6.0	6.7
PPG-PR 610	6.0	4.7	7.3	6.0	8.0	7.3	7.0	7.0	8.0	5.3	6.7
DLF-PR-3737	6.0	5.0	7.0	4.7	7.7	8.3	8.0	6.7	8.0	5.0	6.6
PPG-PR 661	6.0	4.3	6.3	6.0	8.0	8.3	7.0	7.3	8.0	5.0	6.6
PPG-PR 667	6.0	5.0	6.7	5.7	7.3	7.0	7.7	7.3	8.0	5.7	6.6
PS4	6.0	4.3	6.7	7.0	7.7	7.3	7.0	7.3	8.0	5.0	6.6
SUNDOWN (BY-PS2)	6.0	5.0	5.3	7.7	7.0	8.0	7.0	7.3	8.0	5.0	6.6
APS	6.0	4.7	6.0	8.0	7.0	7.7	7.0	7.0	7.7	5.3	6.6
HIGH OCTANE	6.0	5.7	5.7	8.3	7.0	7.7	6.7	7.0	7.7	4.7	6.6
PPG-PR 644	6.0	4.3	6.7	7.3	7.0	7.7	7.0	7.0	8.0	5.3	6.6
PST-2MES1	6.3	5.0	6.3	6.3	7.0	7.3	7.0	6.7	8.0	6.3	6.6
RC20-020	5.7	4.7	6.7	7.0	7.3	8.7	6.7	6.3	8.0	5.3	6.6
SILETZ	6.3	5.3	6.7	7.3	7.0	6.3	7.0	7.0	7.7	5.7	6.6
PPG-PR 602	6.0	5.0	6.7	6.3	7.7	7.3	7.0	7.7	7.7	4.7	6.6
PPG-PR 666	6.0	4.0	6.7	6.0	7.3	7.0	8.3	7.3	7.7	5.3	6.6

TABLE 17.
(CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/											
NAME	CT1	IA1	IN1	MN1	NE1	NJ2	OH1	ON1	OR1	QE1	MEAN
PST-2E6	6.3	5.3	5.3	6.7	7.0	8.0	6.3	7.0	8.0	5.7	6.6
LTP-RPP4	6.0	5.3	5.7	8.0	7.3	7.0	6.3	7.0	8.0	4.7	6.5
DLF-PR-3729	6.0	4.0	6.0	7.3	7.3	7.3	7.0	7.0	7.7	5.7	6.5
RELIC (PPG-PR 611)	6.3	4.3	7.0	6.0	7.3	7.7	7.0	7.0	8.0	4.7	6.5
DLF-PR-3730	5.7	4.0	6.7	6.7	7.3	7.3	7.3	7.3	8.0	4.7	6.5
LTP-NR	6.0	4.7	6.0	6.7	7.3	7.3	7.3	7.0	8.0	4.7	6.5
PERFORMANCE (NAI-PR5)	6.0	4.7	5.7	7.0	7.0	7.3	6.7	7.0	8.0	5.7	6.5
PPG-PR 647	6.0	4.0	5.7	7.3	6.7	7.7	6.7	7.3	8.0	5.7	6.5
PST-2GDS	6.3	3.3	7.0	6.0	7.3	7.7	7.0	6.7	8.3	5.3	6.5
SGP4	6.0	3.3	6.3	7.0	7.0	8.0	7.7	7.0	8.0	4.7	6.5
PPG-PR 637	6.0	4.0	6.3	7.0	7.0	7.3	7.3	7.0	8.0	5.0	6.5
PPG-PR 642	6.0	4.7	5.3	7.0	7.0	7.3	7.0	7.0	7.7	5.7	6.5
LIGHTSPEED (PST-2DRG)	6.0	4.3	7.0	5.3	7.3	8.7	7.3	6.7	7.7	4.3	6.5
RPP3	6.0	5.3	5.7	7.7	7.0	7.7	6.0	7.0	7.7	4.3	6.4
STELLAR 4GL	6.0	4.3	6.0	6.7	7.0	7.0	7.0	7.0	7.7	5.7	6.4
PST-2EGY	6.0	4.3	6.0	7.0	7.0	7.7	7.0	6.7	7.3	4.7	6.4
GO-RUS22	6.3	3.7	6.7	5.3	7.7	5.7	7.3	7.3	7.3	6.0	6.3
PPG-PR 643	6.0	4.3	5.7	6.7	7.3	7.7	6.7	7.0	8.0	4.0	6.3
VORTEX SRT (PPG-PR 665)	6.0	2.7	6.0	6.0	6.7	7.7	7.3	7.0	8.0	5.7	6.3
PVF-SGS5	6.0	3.3	6.0	7.0	7.0	7.3	7.0	7.0	7.3	4.7	6.3
KARMA	6.0	6.0	6.0	5.0	7.0	6.7	7.0	6.7	7.0	5.3	6.3
QUASAR	6.0	3.7	5.7	7.3	7.0	7.0	7.0	6.7	7.3	5.0	6.3
DLF-PR-3726	6.0	5.0	6.0	5.3	7.0	6.3	7.3	6.3	7.3	5.7	6.2
PST-2ADS	6.0	4.7	5.0	6.7	7.3	6.7	5.7	7.0	7.7	5.7	6.2
DLF-PR-3727	6.0	4.7	6.3	4.3	7.3	6.3	7.3	6.7	7.3	5.7	6.2
20PR10	6.0	3.3	5.7	7.7	7.0	6.3	7.0	6.3	7.3	4.7	6.1
HOMERUN LS	6.0	3.7	6.0	6.3	6.7	7.0	7.0	6.0	7.7	5.0	6.1
DLF-PR-3736	6.0	4.0	7.0	4.7	7.0	5.3	7.3	6.7	7.3	5.7	6.1
BAR LP 22256	6.0	4.3	5.7	5.0	7.3	5.0	7.7	6.3	6.7	5.7	6.0
GO-RUS21	6.0	3.3	6.3	5.7	6.3	5.3	7.0	6.7	7.3	4.3	5.8
BAR LP 22263	6.0	3.7	6.0	4.0	7.0	4.7	7.3	6.7	7.0	4.0	5.6
GO-RUS20	5.7	3.3	5.0	4.3	7.0	5.7	7.0	6.7	6.7	5.0	5.6
BAR LP 22191	6.0	5.0	5.7	2.7	7.0	4.7	6.7	6.3	6.7	5.0	5.6
DLF-LGT-3066	6.0	4.0	5.7	3.0	7.3	5.7	7.0	6.0	6.7	4.3	5.6
BRIGHTSTAR SLT	6.0	4.3	5.3	3.0	7.0	4.3	6.7	6.0	7.0	5.3	5.5
BAR LP 22174	5.7	2.7	4.7	3.3	6.0	4.3	6.3	6.3	6.7	4.0	5.0
BAR LP 22262	5.7	3.3	6.0	1.7	6.3	3.3	6.3	5.7	6.7	5.0	5.0
LINN	5.0	3.7	3.0	1.7	6.0	2.0	1.0	3.7	4.7	3.3	3.4
LSD VALUE	0.5	2.3	0.9	1.1	0.8	1.2	0.7	0.8	0.7	1.7	0.4
C.V. (%)	5.5	30.0	9.2	11.3	6.7	10.5	5.9	6.9	5.9	20.3	11.4

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

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

TABLE 18.

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/				
NAME	IA1	NE1	UT1	MEAN
BAR LP 22174	6.7	5.7	6.7	6.3
PVF-SGS5	7.0	6.3	4.3	5.9
SUNDOWN (BY-PS2)	7.3	6.0	4.3	5.9
BAR LP 22191	5.0	6.3	6.0	5.8
BAR LP 22262	5.3	6.3	5.7	5.8
RC20-020	6.0	5.3	6.0	5.8
DLF-PR-3735	5.7	6.7	4.7	5.7
ALPHA CENTAURI	6.7	5.3	4.7	5.6
BRIGHTSTAR SLT	5.7	6.0	5.0	5.6
DLF-LGT-3066	4.0	5.0	7.7	5.6
DLF-PR-3736	6.3	5.7	4.7	5.6
PERFORMANCE (NAI-PR5)	6.0	5.0	5.7	5.6
PPG-PR 602	6.7	6.0	4.0	5.6
APS	5.0	6.3	5.3	5.6
DLF-PR-3729	6.0	6.7	3.7	5.4
STELLAR 4GL	5.0	5.7	5.7	5.4
PST-2GDS	5.7	5.3	5.3	5.4
PST-2HFM	5.7	5.3	5.3	5.4
DLF-PR-3726	6.0	5.3	4.7	5.3
PPG-PR 647	6.3	5.7	4.0	5.3
PPG-PR 662	7.0	5.3	3.7	5.3
PST-2EGY	5.3	5.7	5.0	5.3
BAR LP 22256	5.3	5.3	5.0	5.2
ULTRA SPORT (PST-2HAF20)	5.3	5.3	5.0	5.2
PPG-PR 671	6.0	5.3	4.3	5.2
FLIGHTLINE (PST-214)	5.7	5.0	4.7	5.1
LTP-NR	6.0	5.7	3.7	5.1
PPG-PR 610	5.7	6.0	3.7	5.1
VORTEX SRT (PPG-PR 665)	5.7	6.0	3.7	5.1
DLF-PR-3727	5.0	6.0	4.3	5.1
DLF-PR-3728	5.0	6.0	4.3	5.1
DLF-PR-3737	5.3	5.3	4.7	5.1
GREENBACK	5.3	5.0	5.0	5.1
PPG-PR 642	6.0	5.3	4.0	5.1
PPG-PR 643	5.7	5.3	4.3	5.1
PPG-PR 661	6.0	5.3	4.0	5.1
QUASAR	6.3	5.0	4.0	5.1
SILETZ	3.3	5.7	6.3	5.1
CJF1R	5.3	5.7	4.0	5.0
LTP-RPP4	4.7	5.7	4.7	5.0
PPG-PR 606	4.7	5.7	4.7	5.0
PPG-PR 664	5.0	6.0	4.0	5.0
PROMINENT II (TSC-CRS)	7.0	5.0	3.0	5.0
PST-2ADS	5.3	5.7	4.0	5.0
PST-2E6	5.3	5.3	4.3	5.0

TABLE 18.
(CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/				
NAME	IA1	NE1	UT1	MEAN
BAR LP 22263	4.7	5.7	4.3	4.9
KARMA	5.0	5.0	4.7	4.9
SEPR-2013	4.3	5.7	4.7	4.9
HOMERUN LS	4.0	5.3	5.3	4.9
PPG-PR 670	5.7	5.3	3.7	4.9
GRAY EAGLE SLT (PST-2MEG)	5.7	5.0	3.7	4.8
HIGH OCTANE	4.3	6.3	3.7	4.8
LIGHTSPEED (PST-2DRG)	6.0	5.3	3.0	4.8
PPG-PR 663	4.7	5.7	4.0	4.8
PPG-PR 667	5.7	5.0	3.7	4.8
PST-2MES1	5.3	5.0	4.0	4.8
PPG-PR 637	6.0	5.3	3.0	4.8
20PR10	3.7	5.7	4.7	4.7
PPG-PR 644	5.0	5.0	4.0	4.7
PISTON	4.3	5.0	4.7	4.7
RELIC (PPG-PR 611)	5.0	5.0	4.0	4.7
SGP4	4.7	5.3	4.0	4.7
GO-RUS20	5.3	5.0	3.7	4.7
PPG-PR 668	5.0	5.3	3.7	4.7
MRSL-PR22	5.7	4.7	3.3	4.6
PPG-PR 646	4.7	5.0	4.0	4.6
PST-2BGL	4.7	5.0	4.0	4.6
PVF-RPP2	4.7	6.0	3.0	4.6
GO-RUS21	4.3	5.0	4.3	4.6
RPP3	3.0	5.7	4.7	4.4
DARK MATTER	6.0	4.0	3.3	4.4
PPG-PR 620	4.7	5.7	3.0	4.4
PPG-PR 666	4.7	5.3	3.3	4.4
PPG-PR 658	4.3	4.7	4.3	4.4
BSG-PR22	6.3	4.3	2.7	4.4
DLF-PR-3730	3.7	5.3	4.3	4.4
DLF-PR-3738	3.7	5.3	4.3	4.4
PPG-PR 639	5.0	5.3	3.0	4.4
GO-RUS22	3.7	5.3	4.0	4.3
LINN	4.7	5.3	2.3	4.1
PS4	3.0	5.3	4.0	4.1
PST-2SPF	5.7	5.0	1.0	3.9
NEXUS DK (SE-DK)	3.3	4.3	3.0	3.6
LSD VALUE	2.1	1.2	2.0	1.0
C.V. (%)	24.8	14.0	28.7	22.5

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.

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/							
NAME	IN1	MN1	NE1	NJ2	OR1	UT1	MEAN
LINN	9.0	6.7	7.3	9.0	6.0	8.0	7.7
NEXUS DK (SE-DK)	8.0	5.7	6.7	9.0	7.0	7.7	7.3
PERFORMANCE (NAI-PR5)	7.3	5.7	6.3	9.0	7.7	7.7	7.3
BAR LP 22174	7.7	5.3	6.3	9.0	7.0	8.0	7.2
GO-RUS20	6.3	4.3	8.0	8.7	7.7	8.3	7.2
GREENBACK	6.7	5.0	6.3	9.0	7.3	8.3	7.1
20PR10	6.7	5.3	6.3	9.0	7.7	7.7	7.1
BSG-PR22	6.3	4.7	7.0	9.0	7.3	8.0	7.1
LTP-NR	7.3	4.3	6.3	9.0	7.0	8.3	7.1
LTP-RPP4	5.3	5.0	7.0	9.0	7.7	8.0	7.0
PROMINENT II (TSC-CRS)	7.0	5.3	6.0	9.0	7.0	7.7	7.0
GO-RUS21	6.7	4.7	5.7	9.0	8.0	7.7	6.9
PPG-PR 647	6.3	4.7	6.0	9.0	7.7	8.0	6.9
RELIC (PPG-PR 611)	6.3	4.7	6.3	9.0	7.3	8.0	6.9
STELLAR 4GL	6.7	5.0	6.0	9.0	7.3	7.7	6.9
HOMERUN LS	6.7	5.0	5.7	9.0	7.3	7.7	6.9
QUASAR	6.7	5.0	6.3	9.0	6.7	7.7	6.9
DARK MATTER	6.0	5.0	5.7	9.0	7.0	8.3	6.8
RC20-020	5.7	4.3	6.0	9.0	8.0	8.0	6.8
PPG-PR 661	5.7	5.3	6.0	9.0	7.3	7.3	6.8
PST-2EGY	5.3	5.0	5.7	9.0	7.3	8.3	6.8
GO-RUS22	6.7	4.3	6.3	8.7	7.0	7.7	6.8
PPG-PR 663	5.3	5.0	6.3	9.0	7.0	8.0	6.8
DLF-PR-3726	5.7	5.7	5.7	9.0	7.0	7.3	6.7
PISTON	5.7	4.3	7.0	8.3	7.0	8.0	6.7
APS	6.0	4.0	6.0	9.0	7.7	7.7	6.7
MRS�-PR22	6.7	4.3	5.3	9.0	7.0	8.0	6.7
PPG-PR 643	5.7	4.3	6.0	9.0	7.7	7.7	6.7
GRAY EAGLE SLT (PST-2MEG)	6.0	4.3	5.3	8.7	7.7	8.0	6.7
KARMA	6.0	4.0	6.3	9.0	6.7	8.0	6.7
PPG-PR 610	4.7	4.7	6.3	9.0	7.7	7.7	6.7
SILETZ	6.3	4.3	5.7	9.0	6.7	8.0	6.7
VORTEX SRT (PPG-PR 665)	5.3	4.7	5.7	8.7	7.3	8.3	6.7
BRIGHTSTAR SLT	6.0	5.3	5.7	9.0	6.3	7.3	6.6
PST-2MES1	6.0	4.7	6.0	8.0	8.0	7.0	6.6
PVF-RPP2	5.7	4.0	7.0	8.7	6.3	8.0	6.6
PPG-PR 662	5.3	3.3	6.7	9.0	8.0	7.3	6.6
DLF-PR-3736	5.7	4.7	5.7	9.0	6.7	7.7	6.6
FLIGHTLINE (PST-214)	5.7	4.0	6.0	9.0	7.3	7.3	6.6
PPG-PR 670	5.0	4.0	6.7	8.7	7.0	8.0	6.6
PPG-PR 671	5.7	4.3	5.3	9.0	7.0	8.0	6.6
PST-2HFM	5.7	4.0	6.3	8.7	7.0	7.7	6.6
RPP3	5.7	4.0	6.3	8.7	7.0	7.7	6.6
PPG-PR 658	5.3	3.7	6.3	9.0	7.3	7.3	6.5
DLF-PR-3727	5.3	4.3	5.3	9.0	7.3	7.7	6.5

TABLE 19.
(CONT'D)

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/							
NAME	IN1	MN1	NE1	NJ2	OR1	UT1	MEAN
DLF-PR-3728	6.0	4.3	5.0	8.7	7.3	7.7	6.5
DLF-PR-3738	6.0	4.3	6.0	9.0	6.7	7.0	6.5
PPG-PR 644	5.0	4.0	6.7	8.7	7.3	7.3	6.5
PPG-PR 646	4.7	5.0	6.0	9.0	7.0	7.3	6.5
PST-2GDS	5.7	4.0	5.3	9.0	7.0	8.0	6.5
SEPR-2013	5.3	4.0	6.0	8.7	8.0	7.0	6.5
PPG-PR 637	4.7	3.7	6.0	9.0	7.7	8.0	6.5
PPG-PR 668	5.3	4.7	4.7	9.0	7.0	8.0	6.4
DLF-PR-3729	6.7	4.3	4.7	9.0	6.3	7.7	6.4
LIGHTSPEED (PST-2DRG)	5.7	4.3	5.3	8.7	7.0	7.7	6.4
PPG-PR 639	5.3	4.3	4.7	9.0	7.3	8.0	6.4
BAR LP 22191	5.7	4.3	4.7	9.0	7.3	7.3	6.4
PPG-PR 667	5.7	4.0	5.0	8.7	7.3	7.7	6.4
PST-2E6	5.7	4.7	4.0	8.7	7.7	7.7	6.4
CJF1R	5.3	4.0	6.3	9.0	6.7	7.0	6.4
DLF-PR-3730	5.3	4.7	5.3	9.0	6.3	7.7	6.4
PPG-PR 602	5.3	4.3	4.7	9.0	7.0	8.0	6.4
PPG-PR 664	5.3	4.0	5.0	9.0	7.0	8.0	6.4
PPG-PR 666	5.0	4.3	5.0	9.0	7.3	7.7	6.4
ULTRA SPORT (PST-2HAF20)	6.3	4.7	5.3	8.3	6.7	7.0	6.4
BAR LP 22263	5.3	4.0	5.0	9.0	7.0	7.7	6.3
PPG-PR 620	5.3	4.7	4.7	8.7	7.7	7.0	6.3
PST-2SPF	5.0	3.3	6.0	9.0	7.3	7.3	6.3
SGP4	5.7	3.7	6.0	8.7	6.7	7.0	6.3
ALPHA CENTAURI	5.3	4.7	4.3	8.3	7.0	8.0	6.3
HIGH OCTANE	5.0	4.7	4.7	9.0	6.7	7.3	6.2
PPG-PR 606	4.7	5.0	4.7	8.7	7.0	7.3	6.2
PST-2ADS	5.3	4.0	4.7	8.7	7.0	7.7	6.2
SUNDOWN (BY-PS2)	4.7	3.7	5.7	8.7	7.0	7.7	6.2
DLF-PR-3737	5.3	4.3	5.7	8.3	6.3	7.0	6.2
PPG-PR 642	5.3	4.7	4.3	8.0	7.0	7.7	6.2
PST-2BGL	5.3	3.7	4.3	8.7	7.3	7.7	6.2
PVF-SGS5	5.7	4.3	4.3	8.7	6.7	7.3	6.2
BAR LP 22256	5.0	3.3	6.0	8.7	6.7	7.0	6.1
PS4	4.7	4.0	5.0	8.7	7.0	7.0	6.1
DLF-LGT-3066	5.7	4.7	3.7	9.0	5.7	7.3	6.0
BAR LP 22262	4.3	3.7	5.3	8.7	7.0	6.3	5.9
DLF-PR-3735	4.0	3.3	4.7	7.3	5.7	7.0	5.3
LSD VALUE	1.6	1.3	2.0	0.7	1.0	1.1	0.5
C.V. (%)	17.0	17.8	21.3	4.9	8.8	8.7	12.5

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

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

TABLE 20.

SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/									
NAME	IA1	IN1	OH1	MEAN	NAME	IA1	IN1	OH1	MEAN
BAR LP 22191	8.0	7.0	9.0	8.0	PST-2EGY	7.7	5.3	9.0	7.3
DLF-PR-3730	8.7	6.3	9.0	8.0	PST-2GDS	7.7	5.3	9.0	7.3
DLF-PR-3735	8.7	6.3	9.0	8.0	STELLAR 4GL	7.7	5.3	9.0	7.3
PPG-PR 666	8.7	6.0	9.0	7.9	SUNDOWN (BY-PS2)	6.7	6.3	9.0	7.3
PPG-PR 610	8.3	6.0	9.0	7.8	ULTRA SPORT (PST-2HAF20)	7.3	5.7	9.0	7.3
PPG-PR 646	8.3	6.0	9.0	7.8	ALPHA CENTAURI	6.7	6.0	9.0	7.2
PPG-PR 670	8.3	6.0	9.0	7.8	DLF-PR-3736	6.7	6.0	9.0	7.2
RPP3	8.3	6.0	9.0	7.8	LIGHTSPEED (PST-2DRG)	8.0	4.7	9.0	7.2
PPG-PR 606	8.0	6.3	9.0	7.8	PST-2ADS	7.7	5.0	9.0	7.2
GO-RUS21	8.7	5.3	9.0	7.7	DLF-LGT-3066	7.7	5.3	8.7	7.2
GO-RUS22	8.7	5.3	9.0	7.7	PERFORMANCE (NAI-PR5)	7.7	4.7	9.0	7.1
PPG-PR 658	7.7	6.0	9.0	7.6	BAR LP 22262	7.0	5.3	9.0	7.1
BAR LP 22256	7.7	6.0	9.0	7.6	CJP1R	7.3	5.0	9.0	7.1
PISTON	8.0	5.7	9.0	7.6	DLF-PR-3726	7.0	5.3	9.0	7.1
PST-2E6	8.0	5.7	9.0	7.6	GRAY EAGLE SLT (PST-2MEG)	7.0	5.3	9.0	7.1
PST-2HFM	8.0	5.7	9.0	7.6	PPG-PR 642	7.0	5.3	9.0	7.1
SGP4	8.0	5.7	9.0	7.6	PPG-PR 662	6.3	6.0	9.0	7.1
PPG-PR 664	7.3	6.3	9.0	7.6	PPG-PR 637	7.0	5.3	9.0	7.1
FLIGHTLINE (PST-214)	7.7	5.7	9.0	7.4	VORTEX SRT (PPG-PR 665)	7.3	5.0	9.0	7.1
HIGH OCTANE	7.7	5.7	9.0	7.4	NEXUS DK (SE-DK)	7.7	4.3	9.0	7.0
HOMERUN LS	8.0	5.7	8.7	7.4	PPG-PR 620	7.7	4.3	9.0	7.0
LTP-NR	7.7	5.7	9.0	7.4	PPG-PR 647	7.0	5.0	9.0	7.0
PPG-PR 668	7.7	5.7	9.0	7.4	PPG-PR 667	7.0	5.0	9.0	7.0
PST-2BGL	7.7	5.7	9.0	7.4	DLF-PR-3728	6.7	5.0	9.0	6.9
PVF-RPP2	8.3	5.0	9.0	7.4	PPG-PR 671	7.0	4.7	9.0	6.9
20PR10	8.0	5.3	9.0	7.4	GO-RUS20	7.7	4.3	8.7	6.9
BAR LP 22263	8.0	5.3	9.0	7.4	RELIC (PPG-PR 611)	7.3	4.3	9.0	6.9
DLF-PR-3737	8.0	5.3	9.0	7.4	PST-2SPF	8.0	3.3	9.0	6.8
PPG-PR 644	8.0	5.3	9.0	7.4	PST-2MES1	7.3	4.0	9.0	6.8
KARMA	7.3	6.0	9.0	7.4	PVF-SGS5	6.3	5.0	9.0	6.8
PPG-PR 643	8.0	5.3	9.0	7.4	DARK MATTER	7.0	4.3	8.7	6.7
PPG-PR 663	7.3	6.0	9.0	7.4	GREENBACK	6.7	4.3	9.0	6.7
SEPR-2013	8.0	5.3	9.0	7.4	QUASAR	6.3	4.7	9.0	6.7
SILETZ	8.7	4.7	9.0	7.4	MRS-L-PR22	6.7	4.0	9.0	6.6
APS	7.3	5.7	9.0	7.3	PROMINENT II (TSC-CRS)	6.7	3.7	9.0	6.4
BAR LP 22174	7.0	6.0	9.0	7.3	DLF-PR-3738	5.0	5.3	9.0	6.4
BRIGHTSTAR SLT	6.7	6.3	9.0	7.3	RC20-020	4.3	6.0	9.0	6.4
DLF-PR-3727	8.0	5.0	9.0	7.3	BSG-PR22	6.0	3.7	9.0	6.2
LTP-RPP4	7.3	5.7	9.0	7.3	DLF-PR-3729	5.0	4.3	9.0	6.1
PPG-PR 602	6.7	6.3	9.0	7.3	LINN	7.0	2.7	8.3	6.0
PPG-PR 639	7.7	5.3	9.0	7.3					
PPG-PR 661	7.3	5.7	9.0	7.3	LSD VALUE	2.0	1.9	0.3	0.9
PS4	8.0	5.0	9.0	7.3	C.V. (%)	16.6	21.8	2.0	13.6

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 21.

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	IA1	IN1	MEAN	NAME	IA1	IN1	MEAN	
PPG-PR 647	7.3	6.7	7.0	PPG-PR 663	5.3	5.7	5.5	
CJPIR	6.0	7.3	6.7	PS4	5.3	5.7	5.5	
BAR LP 22262	6.7	6.3	6.5	QUASAR	5.3	5.7	5.5	
DLF-PR-3726	5.7	7.3	6.5	RELIC (PPG-PR 611)	5.3	5.7	5.5	
DLF-PR-3730	6.7	6.3	6.5	BAR LP 22256	5.0	5.7	5.3	
GO-RUS21	6.7	6.3	6.5	FLIGHTLINE (PST-214)	5.0	5.7	5.3	
PVF-SGS5	6.7	6.3	6.5	PPG-PR 639	5.0	5.7	5.3	
DLF-PR-3736	5.7	7.0	6.3	PPG-PR 667	4.7	6.0	5.3	
PERFORMANCE (NAI-PR5)	5.7	7.0	6.3	PST-2MES1	4.7	6.0	5.3	
DLF-PR-3727	5.7	6.7	6.2	SILETZ	5.0	5.7	5.3	
PPG-PR 658	6.3	6.0	6.2	STELLAR 4GL	5.0	5.7	5.3	
PPG-PR 661	6.0	6.3	6.2	LTP-RPP4	4.3	6.3	5.3	
APS	5.7	6.3	6.0	SUNDOWN (BY-PS2)	5.3	5.3	5.3	
DLF-LGT-3066	6.3	5.7	6.0	ALPHA CENTAURI	3.7	6.7	5.2	
DLF-PR-3737	5.3	6.7	6.0	BSG-PR22	4.7	5.7	5.2	
DLF-PR-3738	5.7	6.3	6.0	PPG-PR 644	4.7	5.7	5.2	
PPG-PR 643	6.3	5.7	6.0	ULTRA SPORT (PST-2HAF20)	4.7	5.7	5.2	
PPG-PR 662	6.0	6.0	6.0	BAR LP 22174	5.0	5.3	5.2	
PPG-PR 670	5.3	6.7	6.0	PPG-PR 671	5.0	5.3	5.2	
BAR LP 22191	5.7	6.0	5.8	PST-2SPF	5.3	5.0	5.2	
BAR LP 22263	5.0	6.7	5.8	RC20-020	4.3	6.0	5.2	
DLF-PR-3735	5.0	6.7	5.8	RPP3	5.0	5.3	5.2	
PPG-PR 620	5.7	6.0	5.8	DLF-PR-3728	4.7	5.3	5.0	
VORTEX SRT (PPG-PR 665)	6.0	5.7	5.8	PPG-PR 646	4.3	5.7	5.0	
PST-2ADS	5.3	6.3	5.8	PST-2BGL	5.0	5.0	5.0	
PST-2E6	5.3	6.3	5.8	PST-2HFM	4.7	5.3	5.0	
PPG-PR 637	6.3	5.3	5.8	HIGH OCTANE	4.7	4.7	4.7	
GRAY EAGLE SLT (PST-2MEG)	5.7	5.7	5.7	PST-2GDS	4.7	4.7	4.7	
PPG-PR 602	5.0	6.3	5.7	HOMERUN LS	4.3	5.0	4.7	
PPG-PR 664	5.3	6.0	5.7	PISTON	4.0	5.3	4.7	
PPG-PR 666	5.3	6.0	5.7	BRIGHTSTAR SLT	4.3	4.7	4.5	
PPG-PR 668	5.3	6.0	5.7	DARK MATTER	4.0	5.0	4.5	
PST-2EGY	5.0	6.3	5.7	KARMA	3.7	5.3	4.5	
PVF-RPP2	6.0	5.3	5.7	LIGHTSPEED (PST-2DRG)	4.0	5.0	4.5	
SGP4	5.3	6.0	5.7	MRSI-PR22	3.7	5.0	4.3	
20PR10	5.0	6.0	5.5	LINN	4.7	3.7	4.2	
DLF-PR-3729	6.0	5.0	5.5	NEXUS DK (SE-DK)	3.3	4.7	4.0	
GO-RUS20	6.0	5.0	5.5	PROMINENT II (TSC-CRS)	3.0	5.0	4.0	
GO-RUS22	5.3	5.7	5.5	SEPR-2013	2.7	5.0	3.8	
LTP-NR	5.3	5.7	5.5	GREENBACK	2.7	4.3	3.5	
PPG-PR 606	5.0	6.0	5.5					
PPG-PR 610	5.3	5.7	5.5	LSD VALUE	1.9	1.3	1.1	
PPG-PR 642	5.3	5.7	5.5	C.V. (%)	22.6	14.0	18.4	

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

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

TABLE 22. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	IA1	NJ2	MEAN	NAME	IA1	NJ2	MEAN	
PPG-PR 637	7.7	8.7	8.2	GRAY EAGLE SLT (PST-2MEG)	7.0	4.0	5.5	
PPG-PR 644	7.7	7.7	7.7	PPG-PR 661	5.3	5.7	5.5	
PPG-PR 658	7.7	6.7	7.2	PPG-PR 667	5.7	5.3	5.5	
BAR LP 22174	7.3	7.0	7.2	PPG-PR 668	5.3	5.7	5.5	
CJP1R	7.0	7.3	7.2	RELIC (PPG-PR 611)	5.0	6.0	5.5	
PPG-PR 620	8.0	6.3	7.2	DLF-LGT-3066	6.0	4.7	5.3	
PPG-PR 647	7.3	7.0	7.2	HIGH OCTANE	5.0	5.7	5.3	
SILETZ	6.3	7.7	7.0	PPG-PR 670	5.7	5.0	5.3	
PERFORMANCE (NAI-PR5)	7.7	6.0	6.8	PST-2SPF	6.0	4.7	5.3	
GO-RUS21	7.3	6.3	6.8	DLF-PR-3735	5.3	5.3	5.3	
STELLAR 4GL	6.3	7.3	6.8	DLF-PR-3736	6.3	4.3	5.3	
DLF-PR-3729	6.7	6.7	6.7	PPG-PR 602	5.3	5.3	5.3	
PPG-PR 646	6.7	6.7	6.7	PST-2E6	6.3	4.3	5.3	
DLF-PR-3730	6.0	7.3	6.7	PST-2HFM	6.3	4.3	5.3	
LTP-RPP4	6.0	7.3	6.7	BAR LP 22191	5.7	4.7	5.2	
APS	6.3	6.7	6.5	ULTRA SPORT (PST-2HAF20)	4.7	5.7	5.2	
PPG-PR 671	6.0	7.0	6.5	GO-RUS22	6.0	4.3	5.2	
PST-2ADS	6.3	6.7	6.5	PST-2BGL	5.0	5.3	5.2	
PVF-SGS5	6.3	6.7	6.5	PST-2GDS	5.0	5.3	5.2	
SGP4	5.0	8.0	6.5	BAR LP 22256	6.3	3.7	5.0	
SUNDOWN (BY-PS2)	5.7	7.3	6.5	PST-2EGY	5.7	4.3	5.0	
PVF-RPP2	5.0	7.7	6.3	PPG-PR 663	5.0	4.7	4.8	
RPP3	6.7	6.0	6.3	PST-2MES1	4.7	5.0	4.8	
PPG-PR 662	6.3	6.3	6.3	BRIGHTSTAR SLT	5.3	4.3	4.8	
DLF-PR-3728	4.7	7.7	6.2	DLF-PR-3727	5.3	4.3	4.8	
20PR10	6.0	6.3	6.2	PPG-PR 606	4.3	5.3	4.8	
LTP-NR	6.0	6.3	6.2	PPG-PR 666	3.7	6.0	4.8	
PPG-PR 639	6.0	6.3	6.2	DLF-PR-3737	4.7	4.7	4.7	
PPG-PR 642	6.0	6.0	6.0	HOMERUN LS	5.0	4.3	4.7	
PPG-PR 643	7.0	5.0	6.0	KARMA	5.3	4.0	4.7	
QUASAR	5.7	6.3	6.0	LIGHTSPEED (PST-2DRG)	6.0	3.0	4.5	
DLF-PR-3738	6.0	5.7	5.8	PROMINENT II (TSC-CRS)	6.3	2.7	4.5	
PPG-PR 610	6.0	5.7	5.8	GREENBACK	4.3	4.3	4.3	
PPG-PR 664	5.7	6.0	5.8	SEPR-2013	5.0	3.3	4.2	
PISTON	5.3	6.3	5.8	DARK MATTER	4.3	3.7	4.0	
GO-RUS20	5.7	5.7	5.7	LINN	6.0	1.7	3.8	
VORTEX SRT (PPG-PR 665)	5.7	5.7	5.7	MRS�-PR22	4.7	2.7	3.7	
ALPHA CENTAURI	5.0	6.3	5.7	BSG-PR22	4.3	3.0	3.7	
PS4	7.0	4.3	5.7	RC20-020	4.3	2.7	3.5	
BAR LP 22262	6.3	4.7	5.5	NEXUS DK (SE-DK)	4.0	2.7	3.3	
BAR LP 22263	6.0	5.0	5.5					
DLF-PR-3726	5.0	6.0	5.5	LSD VALUE	2.4	1.6	1.5	
FLIGHTLINE (PST-214)	6.0	5.0	5.5	C.V. (%)	26.1	17.9	22.6	

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 23. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	IA1	OH1	MEAN
HOMERUN LS	96.3	93.3	94.8
GO-RUS20	95.7	93.3	94.5
LTP-NR	91.3	97.7	94.5
20PR10	89.7	99.0	94.3
PPG-PR 643	91.7	94.7	93.2
DLF-PR-3729	92.7	93.0	92.8
VORTEX SRT (PPG-PR 665)	94.0	91.7	92.8
PPG-PR 644	91.7	93.0	92.3
GO-RUS21	96.3	88.3	92.3
PPG-PR 668	92.7	91.7	92.2
DLF-PR-3730	94.3	90.0	92.2
ULTRA SPORT (PST-2HAF20)	91.0	93.3	92.2
PPG-PR 602	92.0	91.7	91.8
HIGH OCTANE	91.7	91.7	91.7
PPG-PR 606	91.7	91.7	91.7
GRAY EAGLE SLT (PST-2MEG)	88.0	95.0	91.5
APS	89.0	93.3	91.2
LIGHTSPEED (PST-2DRG)	87.3	95.0	91.2
BAR LP 22262	88.7	93.3	91.0
PS4	88.7	93.3	91.0
PST-2BGL	88.7	93.3	91.0
CJP1R	85.0	96.3	90.7
BRIGHTSTAR SLT	83.3	97.7	90.5
DLF-PR-3738	84.7	96.3	90.5
PVF-SGS5	89.0	91.7	90.3
PVF-RPP2	85.7	94.7	90.2
PPG-PR 610	85.0	95.0	90.0
SGP4	85.0	95.0	90.0
DLF-LGT-3066	83.3	96.3	89.8
PERFORMANCE (NAI-PR5)	93.3	86.0	89.7
PST-2HFM	83.0	96.3	89.7
PPG-PR 637	83.0	96.3	89.7
DLF-PR-3726	87.3	91.7	89.5
PST-2MES1	86.0	93.0	89.5
PPG-PR 642	86.3	91.7	89.0
PPG-PR 663	81.7	96.3	89.0
RPP3	83.3	94.7	89.0
GO-RUS22	84.3	93.3	88.8
PPG-PR 671	87.7	89.7	88.7
PST-2ADS	81.0	96.0	88.5
SUNDOWN (BY-PS2)	83.7	93.0	88.3
BAR LP 22191	85.0	91.3	88.2
PPG-PR 662	81.3	95.0	88.2
PPG-PR 667	84.0	91.7	87.8
PST-2EGY	84.0	91.7	87.8
RELIC (PPG-PR 611)	87.0	88.3	87.7

TABLE 23. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	IA1	OH1	MEAN
QUASAR	80.3	94.7	87.5
PPG-PR 647	88.3	86.3	87.3
RC20-020	81.0	93.3	87.2
BAR LP 22174	85.7	88.3	87.0
PROMINENT II (TSC-CRS)	77.3	96.3	86.8
DLF-PR-3736	86.7	86.7	86.7
PPG-PR 664	81.3	91.7	86.5
PST-2GDS	84.7	88.3	86.5
SILETZ	86.3	86.7	86.5
DLF-PR-3727	79.3	93.3	86.3
PISTON	76.3	96.3	86.3
PPG-PR 646	77.3	95.0	86.2
BAR LP 22256	78.7	93.3	86.0
DARK MATTER	77.7	93.3	85.5
BAR LP 22263	81.0	89.7	85.3
PPG-PR 639	80.7	90.0	85.3
PPG-PR 658	83.3	86.7	85.0
PPG-PR 666	78.3	91.7	85.0
MBSL-PR22	74.3	95.0	84.7
PST-2E6	74.3	94.7	84.5
DLF-PR-3737	82.0	86.7	84.3
GREENBACK	73.0	95.0	84.0
KARMA	74.7	93.3	84.0
PPG-PR 670	81.3	86.7	84.0
BSG-PR22	80.3	86.7	83.5
NEXUS DK (SE-DK)	73.7	93.3	83.5
PPG-PR 661	70.7	93.0	81.8
PPG-PR 620	77.3	85.0	81.2
FLIGHTLINE (PST-214)	81.7	80.0	80.8
DLF-PR-3735	74.7	86.7	80.7
LTP-RPP4	75.7	84.7	80.2
ALPHA CENTAURI	72.7	86.7	79.7
LIIN	55.7	99.0	77.3
STELLAR 4GL	88.3	66.3	77.3
DLF-PR-3728	59.0	93.3	76.2
SEPR-2013	68.3	80.0	74.2
PST-2SPF	73.3	73.3	73.3
LSD VALUE	20.4	14.5	12.5
C.V. (%)	15.2	9.9	12.6

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 24. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/			
NAME	IA1	NAME	IA1
GO-RUS21	68.3	SUNDOWN (BY-PS2)	55.3
PPG-PR 647	68.0	PPG-PR 666	55.0
CJP1R	66.3	PPG-PR 610	54.3
PPG-PR 667	64.0	RC20-020	54.3
GO-RUS22	62.7	GO-RUS20	54.0
APS	62.3	DLF-PR-3737	53.7
BAR LP 22262	62.3	PPG-PR 671	53.7
PVF-RPP2	62.0	LTP-NR	53.7
PST-2ADS	61.7	PPG-PR 661	53.7
PPG-PR 658	61.3	PROMINENT II (TSC-CRS)	53.3
KARMA	61.3	SEPR-2013	53.3
DLF-PR-3738	60.7	ALPHA CENTAURI	53.0
PVF-SGS5	60.7	VORTEX SRT (PPG-PR 665)	53.0
PPG-PR 637	60.7	PPG-PR 670	52.7
PERFORMANCE (NAI-PR5)	60.0	DLF-PR-3727	52.3
PPG-PR 620	59.3	DLF-PR-3728	52.0
PPG-PR 664	59.3	PPG-PR 602	52.0
PS4	59.0	BAR LP 22263	51.7
PPG-PR 643	58.7	DLF-PR-3726	51.7
PPG-PR 663	58.7	ULTRA SPORT (PST-2HAF20)	51.7
PPG-PR 646	58.3	PPG-PR 606	51.0
SGP4	58.3	PISTON	50.3
SILETZ	58.3	DLF-PR-3735	50.0
DLF-LGT-3066	58.0	BAR LP 22256	49.0
20PR10	57.7	FLIGHTLINE (PST-214)	49.0
DLF-PR-3729	57.7	LTP-RPP4	48.7
DLF-PR-3730	57.7	PST-2GDS	48.3
DLF-PR-3736	57.7	PST-2BGL	48.0
HIGH OCTANE	57.0	LIGHTSPEED (PST-2DRG)	47.7
PPG-PR 644	57.0	PST-2MES1	46.7
RELIC (PPG-PR 611)	57.0	BRIGHTSTAR SLT	46.3
PPG-PR 642	56.7	LINN	46.3
PPG-PR 639	56.3	PST-2E6	46.3
PST-2EGY	56.3	BAR LP 22174	46.0
PST-2SPF	56.3	GREENBACK	46.0
STELLAR 4GL	56.3	HOMERUN LS	44.3
QUASAR	56.0	MRSI-PR22	39.0
BAR LP 22191	55.7	BSG-PR22	38.7
PPG-PR 668	55.7	DARK MATTER	38.3
GRAY EAGLE SLT (PST-2MEG)	55.3	NEXUS DK (SE-DK)	37.7
PPG-PR 662	55.3		
PST-2HFM	55.3	LSD VALUE	13.0
RPP3	55.3	C.V. (%)	14.8

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

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

TABLE 25.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IA1	MN1	OH1	MEAN
SILETZ	93.0	95.3	97.7	95.3
PPG-PR 642	90.7	96.0	96.3	94.3
LTP-RPP4	85.7	95.0	96.3	92.3
SGP4	87.7	94.7	94.7	92.3
PPG-PR 646	84.7	94.3	97.7	92.2
PISTON	88.3	94.7	93.3	92.1
PST-2ADS	88.7	94.0	93.3	92.0
VORTEX SRT (PPG-PR 665)	87.7	93.0	95.0	91.9
PVF-RPP2	85.3	95.3	95.0	91.9
RPP3	87.0	94.0	93.3	91.4
PPG-PR 658	85.3	95.0	93.3	91.2
DLF-PR-3729	84.3	95.7	93.3	91.1
HOMERUN LS	87.0	93.0	93.3	91.1
PPG-PR 620	82.3	95.0	95.0	90.8
LTP-NR	83.0	93.7	95.0	90.6
20PR10	84.3	94.3	93.0	90.6
PPG-PR 637	84.0	95.7	91.7	90.4
PPG-PR 643	83.3	93.7	93.3	90.1
DLF-PR-3735	82.7	95.3	91.7	89.9
PPG-PR 647	81.7	95.0	93.0	89.9
PPG-PR 670	79.3	93.7	96.3	89.8
DLF-PR-3738	78.7	95.3	95.0	89.7
PPG-PR 639	80.3	93.7	95.0	89.7
SUNDOWN (BY-PS2)	82.0	94.7	91.7	89.4
CJP1R	79.3	95.7	93.3	89.4
PS4	83.0	92.3	93.0	89.4
PVF-SGS5	77.7	95.3	95.0	89.3
STELLAR 4GL	78.3	94.7	94.7	89.2
GRAY EAGLE SLT (PST-2MEG)	80.3	92.0	95.0	89.1
PPG-PR 644	80.3	93.7	93.3	89.1
PST-2EGY	75.0	95.3	96.3	88.9
PPG-PR 663	81.3	91.7	93.3	88.8
BAR LP 22174	84.7	88.0	93.3	88.7
DLF-PR-3730	77.3	93.7	95.0	88.7
APS	78.0	94.3	93.0	88.4
PST-2GDS	81.0	92.3	91.7	88.3
PPG-PR 662	81.3	91.7	91.7	88.2
PPG-PR 661	77.7	92.0	94.7	88.1
PERFORMANCE (NAI-PR5)	77.3	92.3	94.7	88.1
PST-2HFM	78.3	91.0	95.0	88.1
PPG-PR 668	76.3	92.7	95.0	88.0
ULTRA SPORT (PST-2HAF20)	75.0	92.3	96.3	87.9
PPG-PR 602	76.0	93.7	93.3	87.7
QUASAR	72.7	94.0	96.0	87.6
ALPHA CENTAURI	78.0	91.3	93.3	87.6
DLF-PR-3728	67.0	95.7	99.0	87.2

TABLE 25.
(CONT'D)

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IA1	MN1	OH1	MEAN
RELIC (PPG-PR 611)	77.3	92.7	91.7	87.2
LIGHTSPEED (PST-2DRG)	78.3	89.3	93.3	87.0
PPG-PR 664	76.3	91.3	93.3	87.0
PST-2E6	75.3	94.0	91.7	87.0
HIGH OCTANE	72.7	93.7	93.3	86.6
PPG-PR 610	71.7	91.7	96.3	86.6
GO-RUS22	77.3	87.0	95.0	86.4
GO-RUS20	75.3	88.7	95.0	86.3
GO-RUS21	70.3	92.3	96.3	86.3
PPG-PR 671	74.7	90.7	93.3	86.2
PPG-PR 606	69.0	91.3	96.3	85.6
PPG-PR 666	70.7	90.7	94.3	85.2
FLIGHTLINE (PST-214)	70.0	94.3	91.3	85.2
PST-2BGL	71.7	90.7	91.7	84.7
DLF-PR-3727	71.0	91.0	91.7	84.6
DLF-PR-3726	65.7	90.3	96.3	84.1
PPG-PR 667	64.7	89.7	96.3	83.6
DLF-LGT-3066	74.7	83.7	91.7	83.3
RC20-020	64.3	90.7	95.0	83.3
PROMINENT II (TSC-CRS)	72.3	85.0	90.0	82.4
PST-2MES1	64.7	89.3	93.3	82.4
BAR LP 22256	65.0	86.3	95.0	82.1
DLF-PR-3736	62.3	90.7	91.7	81.6
BAR LP 22191	69.0	83.3	91.7	81.3
PST-2SPF	63.7	96.0	83.3	81.0
SEPR-2013	68.0	85.3	88.3	80.6
BAR LP 22263	67.3	85.7	88.3	80.4
BAR LP 22262	65.7	86.7	88.3	80.2
DLF-PR-3737	60.0	86.7	93.3	80.0
KARMA	61.3	88.0	90.0	79.8
BRIGHTSTAR SLT	68.0	79.0	91.7	79.6
NEXUS DK (SE-DK)	61.7	86.7	90.0	79.4
MRSL-PR22	65.3	85.3	86.7	79.1
DARK MATTER	61.7	83.3	91.7	78.9
BSG-PR22	60.7	85.0	90.0	78.6
GREENBACK	59.3	83.0	88.3	76.9
LINN	67.7	82.7	78.3	76.2
LSD VALUE	18.5	3.1	5.9	6.5
C.V. (%)	15.2	2.1	3.9	8.1

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

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

TABLE 26.

DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/			
NAME	IN2	VA2	MEAN
PPG-PR 664	7.0	8.3	7.7
PPG-PR 642	6.7	8.3	7.5
SILETZ	7.3	7.7	7.5
ALPHA CENTAURI	6.7	8.0	7.3
DLF-PR-3738	7.0	7.7	7.3
VORTEX SRT (PPG-PR 665)	6.7	8.0	7.3
PST-2MES1	6.0	8.3	7.2
PPG-PR 661	6.3	8.0	7.2
PPG-PR 637	7.0	7.3	7.2
PPG-PR 658	6.3	7.7	7.0
DLF-PR-3735	5.7	8.3	7.0
PPG-PR 671	6.0	8.0	7.0
GO-RUS21	6.0	8.0	7.0
HIGH OCTANE	6.3	7.7	7.0
PERFORMANCE (NAI-PR5)	6.0	8.0	7.0
QUASAR	6.3	7.7	7.0
DLF-LGT-3066	6.0	7.7	6.8
GO-RUS20	5.7	8.0	6.8
PPG-PR 643	5.7	8.0	6.8
SGP4	6.0	7.7	6.8
PPG-PR 606	6.3	7.3	6.8
PVF-SGS5	6.3	7.3	6.8
PPG-PR 610	6.7	6.7	6.7
PPG-PR 647	5.7	7.7	6.7
PPG-PR 668	5.7	7.7	6.7
GRAY EAGLE SLT (PST-2MEG)	6.0	7.3	6.7
PPG-PR 663	6.0	7.3	6.7
PPG-PR 670	6.0	7.3	6.7
PST-2ADS	5.3	8.0	6.7
APS	6.3	6.7	6.5
DLF-PR-3727	6.0	7.0	6.5
FLIGHTLINE (PST-214)	5.3	7.7	6.5
PPG-PR 644	5.3	7.7	6.5
LTP-RPP4	5.3	7.7	6.5
PPG-PR 639	6.0	7.0	6.5
PPG-PR 646	5.3	7.7	6.5
PPG-PR 662	6.0	7.0	6.5
PPG-PR 666	6.0	7.0	6.5
PPG-PR 667	5.3	7.7	6.5
RELIC (PPG-PR 611)	6.3	6.7	6.5
STELLAR 4GL	5.3	7.7	6.5
ULTRA SPORT (PST-2HAF20)	5.7	7.3	6.5
20PR10	6.0	6.7	6.3
PPG-PR 602	5.7	7.0	6.3
PST-2HFM	5.0	7.7	6.3

TABLE 26.
(CONT'D)

DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/			
NAME	IN2	VA2	MEAN
SUNDOWN (BY-PS2)	5.7	7.0	6.3
DLF-PR-3726	6.3	6.3	6.3
DLF-PR-3736	5.3	7.3	6.3
PVF-RPP2	5.3	7.3	6.3
PPG-PR 620	5.7	6.7	6.2
PST-2E6	5.7	6.7	6.2
BAR LP 22262	5.0	7.3	6.2
CJP1R	5.0	7.3	6.2
DLF-PR-3728	6.0	6.3	6.2
DLF-PR-3729	5.3	6.7	6.0
DLF-PR-3737	6.3	5.7	6.0
HOMERUN LS	5.0	7.0	6.0
MRSI-PR22	5.0	7.0	6.0
PISTON	5.0	7.0	6.0
PS4	5.3	6.7	6.0
PST-2BGL	4.7	7.3	6.0
PST-2EGY	5.3	6.7	6.0
PST-2GDS	5.3	6.7	6.0
RPP3	5.3	6.7	6.0
BAR LP 22191	5.7	6.0	5.8
BAR LP 22263	4.7	7.0	5.8
BRIGHTSTAR SLT	5.0	6.7	5.8
LTP-NR	5.0	6.7	5.8
DLF-PR-3730	5.7	5.7	5.7
KARMA	5.7	5.7	5.7
DARK MATTER	5.0	6.3	5.7
GO-RUS22	5.3	5.7	5.5
RC20-020	5.3	5.7	5.5
BAR LP 22256	4.7	6.0	5.3
LIGHTSPEED (PST-2DRG)	4.7	6.0	5.3
GREENBACK	5.3	5.3	5.3
NEXUS DK (SE-DK)	4.3	6.0	5.2
BAR LP 22174	5.0	5.0	5.0
BSG-PR22	4.3	5.7	5.0
PST-2SPF	4.7	5.3	5.0
SEPR-2013	4.3	5.7	5.0
PROMINENT II (TSC-CRS)	4.3	5.0	4.7
LINN	4.7	3.7	4.2
LSD VALUE	1.3	2.6	1.4
C.V. (%)	14.2	22.7	19.9

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 27.

CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

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

NAME	MN1	NAME	MN1
PPG-PR 642	7.0	PS4	5.7
APS	6.7	PST-2E6	5.7
DLF-PR-3728	6.7	PST-2HFM	5.7
PPG-PR 644	6.7	PVF-SGS5	5.7
PERFORMANCE (NAI-PR5)	6.7	PPG-PR 637	5.7
PST-2SPF	6.7	ALPHA CENTAURI	5.3
20PR10	6.3	GO-RUS20	5.3
FLIGHTLINE (PST-214)	6.3	GRAY EAGLE SLT (PST-2MEG)	5.3
GO-RUS21	6.3	HIGH OCTANE	5.3
LTP-RPP4	6.3	PPG-PR 610	5.3
PISTON	6.3	PPG-PR 670	5.3
PPG-PR 647	6.3	RC20-020	5.3
PPG-PR 663	6.3	RPP3	5.3
PST-2BGL	6.3	VORTEX SRT (PPG-PR 665)	5.3
SILETZ	6.3	DLF-PR-3727	5.0
ULTRA SPORT (PST-2HAF20)	6.3	DLF-PR-3737	5.0
PPG-PR 658	6.0	HOMERUN LS	5.0
DLF-PR-3729	6.0	LIGHTSPEED (PST-2DRG)	5.0
DLF-PR-3735	6.0	LTP-NR	5.0
DLF-PR-3738	6.0	PPG-PR 662	5.0
PPG-PR 620	6.0	PST-2MES1	5.0
PPG-PR 639	6.0	DLF-PR-3726	4.7
PPG-PR 643	6.0	DLF-PR-3736	4.7
PPG-PR 646	6.0	GO-RUS22	4.7
PPG-PR 661	6.0	KARMA	4.3
PPG-PR 667	6.0	PROMINENT II (TSC-CRS)	4.3
PST-2ADS	6.0	BAR LP 22174	4.0
PST-2EGY	6.0	BAR LP 22263	4.0
PST-2GDS	6.0	MRSL-PR22	4.0
PVF-RPP2	6.0	NEXUS DK (SE-DK)	4.0
QUASAR	6.0	BSG-PR22	3.7
RELIC (PPG-PR 611)	6.0	GREENBACK	3.7
SGP4	6.0	BAR LP 22256	3.3
STELLAR 4GL	6.0	BRIGHTSTAR SLT	3.3
SUNDOWN (BY-PS2)	6.0	DARK MATTER	3.3
CJP1R	5.7	DLF-LGT-3066	3.3
DLF-PR-3730	5.7	LINN	3.3
PPG-PR 671	5.7	SEPR-2013	3.3
PPG-PR 602	5.7	BAR LP 22191	3.0
PPG-PR 606	5.7	BAR LP 22262	2.0
PPG-PR 664	5.7		
PPG-PR 666	5.7	LSD VALUE	1.3
PPG-PR 668	5.7	C.V. (%)	15.3

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 28.

PINK SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

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

NAME	UT1	NAME	UT1
PST-2SPF	9.0	ALPHA CENTAURI	5.3
LINN	8.0	PPG-PR 658	5.3
PROMINENT II (TSC-CRS)	8.0	DLF-PR-3726	5.3
BSG-PR22	7.7	DLF-PR-3737	5.3
PPG-PR 639	7.3	GO-RUS21	5.3
PVF-RPP2	7.3	PPG-PR 642	5.3
PPG-PR 637	7.3	PPG-PR 643	5.3
MRSI-PR22	7.0	PST-2E6	5.3
PPG-PR 602	7.0	BRIGHTSTAR SLT	5.0
PPG-PR 620	7.0	CJPIR	5.0
PST-2ADS	7.0	DLF-PR-3727	5.0
RELIC (PPG-PR 611)	7.0	FLIGHTLINE (PST-214)	5.0
DARK MATTER	6.7	HIGH OCTANE	5.0
LIGHTSPEED (PST-2DRG)	6.7	PPG-PR 606	5.0
NEXUS DK (SE-DK)	6.7	STELLAR 4GL	5.0
PPG-PR 610	6.7	SUNDOWN (BY-PS2)	5.0
PPG-PR 666	6.7	20PR10	4.7
PPG-PR 667	6.7	DLF-PR-3728	4.7
PPG-PR 668	6.7	DLF-PR-3730	4.7
GO-RUS20	6.3	DLF-PR-3736	4.7
GO-RUS22	6.3	GREENBACK	4.7
GRAY EAGLE SLT (PST-2MEG)	6.3	LTP-RPP4	4.7
LTP-NR	6.3	PST-2EGY	4.7
PPG-PR 662	6.3	RPP3	4.7
PVF-SGS5	6.3	SEPR-2013	4.7
VORTEX SRT (PPG-PR 665)	6.3	BAR LP 22256	4.3
PISTON	6.0	DLF-PR-3735	4.3
PPG-PR 646	6.0	PST-2HFM	4.3
PPG-PR 661	6.0	ULTRA SPORT (PST-2HAF20)	4.3
PPG-PR 664	6.0	BAR LP 22191	4.0
PPG-PR 670	6.0	BAR LP 22262	4.0
DLF-PR-3729	5.7	BAR LP 22263	4.0
PPG-PR 671	5.7	DLF-PR-3738	4.0
PPG-PR 644	5.7	PST-2GDS	4.0
HOMERUN LS	5.7	APS	3.7
KARMA	5.7	PERFORMANCE (NAI-PR5)	3.0
PPG-PR 647	5.7	RC20-02O	3.0
PPG-PR 663	5.7	SILETZ	3.0
PS4	5.7	BAR LP 22174	2.7
PST-2BGL	5.7	DLF-LGT-3066	1.3
PST-2MES1	5.7		
QUASAR	5.7	LSD VALUE	2.5
SGP4	5.7	C.V. (%)	27.7

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

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

TABLE 29. SEEDHEAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/			
NAME	IN1	NAME	IN1
PERFORMANCE (NAI-PR5)	7.3	RELIC (PPG-PR 611)	5.7
DLF-PR-3726	7.0	SGP4	5.7
PPG-PR 664	7.0	BAR LP 22174	5.3
PST-2ADS	7.0	FLIGHTLINE (PST-214)	5.3
BAR LP 22262	6.7	GO-RUS22	5.3
DLF-PR-3727	6.7	PPG-PR 610	5.3
DLF-PR-3738	6.7	PPG-PR 639	5.3
GO-RUS21	6.7	PROMINENT II (TSC-CRS)	5.3
PPG-PR 670	6.7	PST-2EGY	5.3
ALPHA CENTAURI	6.3	PST-2MES1	5.3
BAR LP 22191	6.3	QUASAR	5.3
CJPIR	6.3	SILETZ	5.3
DLF-PR-3736	6.3	STELLAR 4GL	5.3
GRAY EAGLE SLT (PST-2MEG)	6.3	SUNDOWN (BY-PS2)	5.3
PPG-PR 642	6.3	ULTRA SPORT (PST-2HAF20)	5.3
PPG-PR 661	6.3	BSG-PR22	5.0
PPG-PR 662	6.3	PPG-PR 671	5.0
PPG-PR 663	6.3	HOMERUN LS	5.0
20PR10	6.0	LTP-NR	5.0
PPG-PR 658	6.0	MRSL-PR22	5.0
APS	6.0	PISTON	5.0
BAR LP 22263	6.0	PPG-PR 646	5.0
DLF-PR-3728	6.0	PS4	5.0
DLF-PR-3735	6.0	PST-2HFM	5.0
GO-RUS20	6.0	PPG-PR 637	5.0
PPG-PR 602	6.0	DARK MATTER	4.7
PPG-PR 606	6.0	GREENBACK	4.7
PPG-PR 620	6.0	HIGH OCTANE	4.7
PPG-PR 668	6.0	PPG-PR 644	4.7
PVF-RPP2	6.0	LIGHTSPEED (PST-2DRG)	4.7
PVF-SGS5	6.0	LINN	4.7
VORTEX SRT (PPG-PR 665)	6.0	PPG-PR 643	4.7
BAR LP 22256	5.7	PST-2BGL	4.7
DLF-LGT-3066	5.7	PST-2GDS	4.7
DLF-PR-3729	5.7	PST-2SPF	4.7
DLF-PR-3730	5.7	RPP3	4.7
DLF-PR-3737	5.7	BRIGHTSTAR SLT	4.3
LTP-RPP4	5.7	KARMA	4.0
NEXUS DK (SE-DK)	5.7	RC20-020	4.0
PPG-PR 647	5.7	SEPR-2013	4.0
PPG-PR 666	5.7		
PPG-PR 667	5.7	LSD VALUE	1.2
PST-2E6	5.7	C.V. (%)	13.6

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 30.

POA ANNUA RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/								
NAME	IN1	IN2	MEAN	NAME	IN1	IN2	MEAN	
PPG-PR 668	7.7	5.7	6.7	HOMERUN LS	6.3	5.0	5.7	
DLF-PR-3738	8.0	5.3	6.7	PPG-PR 602	7.0	4.3	5.7	
20PR10	7.3	5.7	6.5	PPG-PR 662	6.3	5.0	5.7	
APS	8.0	5.0	6.5	PST-2BGL	6.3	5.0	5.7	
DLF-PR-3728	7.3	5.7	6.5	DLF-PR-3735	6.0	5.0	5.5	
VORTEX SRT (PPG-PR 665)	7.3	5.7	6.5	FLIGHTLINE (PST-214)	6.3	4.7	5.5	
PPG-PR 658	7.7	5.0	6.3	HIGH OCTANE	6.0	5.0	5.5	
PS4	7.7	5.0	6.3	LINN	5.7	5.3	5.5	
PVF-SGS5	7.7	5.0	6.3	PPG-PR 610	6.0	5.0	5.5	
GO-RUS20	7.3	5.3	6.3	PPG-PR 643	6.7	4.3	5.5	
GO-RUS21	7.3	5.3	6.3	PPG-PR 646	6.7	4.3	5.5	
PPG-PR 670	7.3	5.3	6.3	PST-2ADS	5.7	5.3	5.5	
QUASAR	7.3	5.3	6.3	SUNDOWN (BY-PS2)	6.0	5.0	5.5	
PPG-PR 637	7.3	5.3	6.3	BAR LP 22262	5.7	5.0	5.3	
ALPHA CENTAURI	6.7	5.7	6.2	PPG-PR 671	6.0	4.7	5.3	
KARMA	6.7	5.7	6.2	LTP-NR	5.7	5.0	5.3	
DLF-LGT-3066	7.3	5.0	6.2	PPG-PR 606	5.7	5.0	5.3	
DLF-PR-3727	6.3	6.0	6.2	PPG-PR 639	6.0	4.7	5.3	
DLF-PR-3729	7.3	5.0	6.2	PVF-RPP2	6.0	4.7	5.3	
DLF-PR-3736	7.3	5.0	6.2	PPG-PR 663	6.3	4.3	5.3	
PERFORMANCE (NAI-PR5)	7.3	5.0	6.2	PST-2E6	5.7	4.7	5.2	
SILETZ	7.0	5.3	6.2	BRIGHTSTAR SLT	5.3	5.0	5.2	
BAR LP 22174	7.0	5.0	6.0	PPG-PR 644	6.0	4.3	5.2	
CJF1R	7.3	4.7	6.0	PPG-PR 620	6.0	4.3	5.2	
DLF-PR-3726	7.3	4.7	6.0	PPG-PR 664	5.3	5.0	5.2	
PISTON	8.0	4.0	6.0	PROMINENT II (TSC-CRS)	5.3	5.0	5.2	
PPG-PR 642	7.7	4.3	6.0	PST-2GDS	5.3	5.0	5.2	
PPG-PR 647	7.3	4.7	6.0	PST-2HFM	6.0	4.3	5.2	
PPG-PR 666	7.0	5.0	6.0	BAR LP 22263	6.0	4.0	5.0	
PPG-PR 667	7.7	4.3	6.0	LTP-RPP4	5.7	4.3	5.0	
RC20-020	6.0	6.0	6.0	LIGHTSPEED (PST-2DRG)	5.0	4.7	4.8	
RPP3	7.0	5.0	6.0	DARK MATTER	5.3	4.3	4.8	
SGP4	7.7	4.3	6.0	GREENBACK	4.7	4.7	4.7	
DLF-PR-3730	6.7	5.0	5.8	BSG-PR22	5.0	4.3	4.7	
STELLAR 4GL	6.7	5.0	5.8	NEXUS DK (SE-DK)	5.3	4.0	4.7	
PPG-PR 661	7.3	4.3	5.8	PST-2MES1	4.3	5.0	4.7	
BAR LP 22191	6.7	4.7	5.7	ULTRA SPORT (PST-2HAF20)	5.0	4.3	4.7	
PST-2EGY	6.7	4.7	5.7	MRS1-PR22	4.3	4.7	4.5	
RELIC (PPG-PR 611)	6.7	4.7	5.7	SEPR-2013	4.3	4.7	4.5	
BAR LP 22256	6.3	5.0	5.7	PST-2SPF	4.3	3.3	3.8	
DLF-PR-3737	7.0	4.3	5.7					
GO-RUS22	6.3	5.0	5.7	LSD VALUE	2.4	1.3	1.4	
GRAY EAGLE SLT (PST-2MEG)	6.3	5.0	5.7	C.V. (%)	22.8	17.1	21.1	

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

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

TABLE 31. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA 2/

NAME	CT1	ON1	QE1	MEAN
HOMERUN LS	66.7	60.0	76.7	67.8
SILETZ	70.0	60.0	73.3	67.8
VORTEX SRT (PPG-PR 665)	70.0	60.0	73.3	67.8
PERFORMANCE (NAI-PR5)	73.3	58.3	70.0	67.2
APS	56.7	70.0	73.3	66.7
KARMA	66.7	65.0	66.7	66.1
MRSI-PR22	70.0	56.7	70.0	65.6
PVF-SGS5	70.0	56.7	70.0	65.6
20PR10	66.7	58.3	70.0	65.0
PPG-PR 644	66.7	60.0	66.7	64.4
PPG-PR 661	63.3	56.7	73.3	64.4
DARK MATTER	66.7	65.0	60.0	63.9
PST-2ADS	63.3	55.0	73.3	63.9
PST-2SPF	66.7	55.0	70.0	63.9
STELLAR 4GL	63.3	60.0	66.7	63.3
BAR LP 22191	66.7	43.3	76.7	62.2
GO-RUS21	63.3	56.7	66.7	62.2
ALPHA CENTAURI	56.7	61.7	66.7	61.7
PPG-PR 658	63.3	45.0	76.7	61.7
DLF-PR-3727	60.0	51.7	73.3	61.7
PPG-PR 664	66.7	51.7	66.7	61.7
RELIC (PPG-PR 611)	56.7	61.7	66.7	61.7
BAR LP 22174	70.0	50.0	63.3	61.1
PROMINENT II (TSC-CRS)	56.7	56.7	70.0	61.1
PST-2MES1	73.3	50.0	60.0	61.1
DLF-PR-3726	63.3	45.0	73.3	60.6
DLF-PR-3729	60.0	48.3	73.3	60.6
PPG-PR 671	66.7	45.0	70.0	60.6
PVF-RPP2	60.0	48.3	73.3	60.6
BAR LP 22256	70.0	60.0	50.0	60.0
CJF1R	63.3	50.0	66.7	60.0
DLF-PR-3730	60.0	56.7	63.3	60.0
PISTON	60.0	53.3	66.7	60.0
PPG-PR 639	63.3	50.0	66.7	60.0
QUASAR	60.0	53.3	66.7	60.0
DLF-PR-3737	70.0	45.0	63.3	59.4
PPG-PR 662	63.3	55.0	60.0	59.4
PST-2E6	63.3	45.0	70.0	59.4
BSG-PR22	60.0	53.3	63.3	58.9
GREENBACK	60.0	50.0	66.7	58.9
PPG-PR 610	53.3	63.3	60.0	58.9
PPG-PR 670	63.3	46.7	66.7	58.9
PST-2BGL	56.7	48.3	70.0	58.3
BAR LP 22263	56.7	53.3	63.3	57.8
PPG-PR 666	60.0	53.3	60.0	57.8
RPP3	60.0	50.0	63.3	57.8
BRIGHTSTAR SLT	60.0	48.3	63.3	57.2
GO-RUS20	70.0	48.3	53.3	57.2

TABLE 31.
(CONT'D)

PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2023 DATA 2/

NAME	CT1	ON1	QE1	MEAN
PPG-PR 606	63.3	48.3	60.0	57.2
RC20-020	63.3	41.7	66.7	57.2
PPG-PR 602	56.7	45.0	70.0	57.2
PPG-PR 647	60.0	51.7	60.0	57.2
DLF-PR-3728	56.7	50.0	63.3	56.7
GRAY EAGLE SLT (PST-2MEG)	60.0	50.0	60.0	56.7
PPG-PR 620	53.3	50.0	66.7	56.7
SGP4	56.7	40.0	73.3	56.7
DLF-PR-3738	66.7	45.0	56.7	56.1
FLIGHTLINE (PST-214)	56.7	41.7	70.0	56.1
NEXUS DK (SE-DK)	46.7	65.0	56.7	56.1
DLF-PR-3736	50.0	50.0	66.7	55.6
GO-RUS22	60.0	43.3	63.3	55.6
PPG-PR 668	53.3	46.7	66.7	55.6
PPG-PR 642	56.7	48.3	60.0	55.0
PS4	56.7	43.3	63.3	54.4
BAR LP 22262	56.7	40.0	66.7	54.4
PPG-PR 637	56.7	46.7	60.0	54.4
LINN	56.7	51.7	53.3	53.9
PPG-PR 667	50.0	51.7	60.0	53.9
HIGH OCTANE	63.3	33.3	63.3	53.3
PST-2GDS	63.3	30.0	66.7	53.3
PST-2EGY	63.3	41.7	53.3	52.8
PST-2HFM	60.0	31.7	66.7	52.8
LTP-RPP4	53.3	46.7	56.7	52.2
SUNDOWN (BY-PS2)	56.7	46.7	53.3	52.2
ULTRA SPORT (PST-2HAF20)	56.7	25.0	73.3	51.7
LTP-NR	53.3	40.0	60.0	51.1
SEPR-2013	53.3	46.7	53.3	51.1
LIGHTSPEED (PST-2DRG)	50.0	38.3	63.3	50.6
PPG-PR 663	56.7	38.3	56.7	50.6
PPG-PR 643	63.3	36.7	50.0	50.0
PPG-PR 646	56.7	36.7	53.3	48.9
DLF-PR-3735	53.3	35.0	56.7	48.3
DLF-LGT-3066	53.3	36.7	50.0	46.7
LSD VALUE	13.3	20.4	20.5	10.6
C.V. (%)	13.6	25.6	19.7	19.6

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 32.

TURFGRASS QUALITY (OCTOBER 2022) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2022 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	IA1	UT1	MEAN
PST-2EGY	4.0	7.0	5.5
SILETZ	4.7	6.3	5.5
BAR LP 22191	4.0	6.7	5.3
GO-RUS21	4.3	6.3	5.3
PPG-PR 670	3.7	7.0	5.3
BAR LP 22263	4.7	5.7	5.2
PST-2GDS	3.7	6.7	5.2
PPG-PR 658	4.3	6.0	5.2
LTP-RPP4	4.0	6.3	5.2
NEXUS DK (SE-DK)	4.3	6.0	5.2
PPG-PR 662	4.0	6.3	5.2
PPG-PR 664	4.0	6.3	5.2
PPG-PR 668	4.0	6.3	5.2
PST-2BGL	4.3	6.0	5.2
APS	4.7	5.3	5.0
DLF-PR-3726	4.3	5.7	5.0
DLF-PR-3727	4.0	6.0	5.0
PPG-PR 671	3.3	6.7	5.0
GO-RUS20	4.3	5.7	5.0
GREENBACK	4.7	5.3	5.0
HOMERUN LS	4.7	5.3	5.0
KARMA	4.0	6.0	5.0
PPG-PR 610	3.7	6.3	5.0
PPG-PR 639	3.7	6.3	5.0
PPG-PR 661	4.0	6.0	5.0
PPG-PR 663	4.0	6.0	5.0
PPG-PR 667	4.0	6.0	5.0
PST-2ADS	4.3	5.7	5.0
PVF-RPP2	4.0	6.0	5.0
RELIC (PPG-PR 611)	3.3	6.7	5.0
ULTRA SPORT (PST-2HAF20)	4.0	6.0	5.0
VORTEX SRT (PPG-PR 665)	3.7	6.3	5.0
ALPHA CENTAURI	4.0	5.7	4.8
BAR LP 22256	4.0	5.7	4.8
DLF-PR-3729	4.0	5.7	4.8
FLIGHTLINE (PST-214)	4.0	5.7	4.8
PPG-PR 606	4.0	5.7	4.8
PST-2HFM	4.0	5.7	4.8
PST-2MES1	4.0	5.7	4.8
SGP4	4.0	5.7	4.8
DARK MATTER	4.3	5.3	4.8
DLF-PR-3728	3.7	6.0	4.8
GRAY EAGLE SLT (PST-2MEG)	4.3	5.3	4.8
PPG-PR 644	3.3	6.3	4.8
LIGHTSPEED (PST-2DRG)	3.7	6.0	4.8

TABLE 32.
(CONT'D)

TURFGRASS QUALITY (OCTOBER 2022) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2022 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	IA1	UT1	MEAN
PERFORMANCE (NAI-PR5)	3.7	6.0	4.8
PPG-PR 666	4.3	5.3	4.8
PST-2SPF	3.3	6.3	4.8
QUASAR	4.3	5.3	4.8
20PR10	3.7	5.7	4.7
BRIGHTSTAR SLT	3.7	5.7	4.7
GO-RUS22	3.7	5.7	4.7
PPG-PR 647	3.7	5.7	4.7
PROMINENT II (TSC-CRS)	3.7	5.7	4.7
PST-2E6	3.3	6.0	4.7
BAR LP 22174	4.0	5.3	4.7
BAR LP 22262	4.0	5.3	4.7
BSG-PR22	4.0	5.3	4.7
CJPIR	4.3	5.0	4.7
DLF-PR-3730	4.3	5.0	4.7
DLF-PR-3735	4.0	5.3	4.7
DLF-PR-3736	4.0	5.3	4.7
DLF-PR-3737	4.0	5.3	4.7
PISTON	4.0	5.3	4.7
PPG-PR 620	4.0	5.3	4.7
PPG-PR 642	4.0	5.3	4.7
RPP3	4.0	5.3	4.7
DLF-PR-3738	4.0	5.0	4.5
HIGH OCTANE	4.0	5.0	4.5
MRSI-PR22	4.0	5.0	4.5
PPG-PR 602	4.0	5.0	4.5
RC20-020	3.7	5.3	4.5
SEPR-2013	4.3	4.7	4.5
STELLAR 4GL	4.0	5.0	4.5
PVF-SGS5	4.0	4.7	4.3
SUNDOWN (BY-PS2)	4.0	4.7	4.3
LTP-NR	3.3	5.3	4.3
PPG-PR 646	3.7	5.0	4.3
PS4	3.3	5.3	4.3
PPG-PR 637	3.3	5.3	4.3
DLF-LGT-3066	3.7	4.7	4.2
PPG-PR 643	4.3	4.0	4.2
LINN	3.0	2.7	2.8
LSD VALUE	1.0	1.5	0.9
C.V. (%)	15.1	16.1	16.0

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 33. TURFGRASS QUALITY (NOVEMBER 2022) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2022 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/								
NAME	IA1	IN1	MEAN	NAME	IA1	IN1	MEAN	
HOMERUN LS	6.3	7.3	6.8	20PR10	4.3	6.3	5.3	
GO-RUS21	6.3	7.0	6.7	PISTON	4.3	6.3	5.3	
NEXUS DK (SE-DK)	5.3	7.7	6.5	PPG-PR 620	4.3	6.3	5.3	
MRSI-PR22	5.0	7.7	6.3	PS4	5.3	5.3	5.3	
PPG-PR 668	6.3	6.3	6.3	PVF-RPP2	4.3	6.3	5.3	
PST-2EGY	5.7	6.7	6.2	BAR LP 22262	4.7	5.7	5.2	
GO-RUS20	6.0	6.3	6.2	DLF-PR-3727	3.7	6.7	5.2	
GO-RUS22	4.7	7.3	6.0	DLF-PR-3730	4.7	5.7	5.2	
GREENBACK	4.3	7.7	6.0	PPG-PR 644	4.7	5.7	5.2	
PROMINENT II (TSC-CRS)	4.3	7.7	6.0	LTP-RPP4	3.7	6.7	5.2	
PST-2GDS	5.7	6.3	6.0	SUNDOWN (BY-PS2)	4.7	5.7	5.2	
SILETZ	5.7	6.3	6.0	ALPHA CENTAURI	4.3	6.0	5.2	
STELLAR 4GL	4.7	7.3	6.0	BRIGHTSTAR SLT	4.3	6.0	5.2	
BSG-PR22	4.7	7.0	5.8	CJP1R	4.0	6.3	5.2	
GRAY EAGLE SLT (PST-2MEG)	4.7	7.0	5.8	DLF-PR-3738	4.0	6.3	5.2	
PPG-PR 602	5.0	6.7	5.8	PPG-PR 643	4.3	6.0	5.2	
PST-2BGL	5.0	6.7	5.8	PPG-PR 647	4.0	6.3	5.2	
PST-2MES1	4.7	7.0	5.8	PPG-PR 662	5.0	5.3	5.2	
QUASAR	5.0	6.7	5.8	PPG-PR 663	4.3	6.0	5.2	
RC20-020	5.0	6.7	5.8	PST-2E6	4.0	6.3	5.2	
APS	4.7	6.7	5.7	PPG-PR 658	3.7	6.3	5.0	
PPG-PR 671	5.0	6.3	5.7	DLF-LGT-3066	4.0	6.0	5.0	
RPP3	5.0	6.3	5.7	KARMA	3.3	6.7	5.0	
ULTRA SPORT (PST-2HAF20)	5.0	6.3	5.7	PERFORMANCE (NAI-PR5)	4.3	5.7	5.0	
BAR LP 22174	4.3	6.7	5.5	PPG-PR 610	4.3	5.7	5.0	
DLF-PR-3726	4.3	6.7	5.5	PPG-PR 642	4.0	6.0	5.0	
DLF-PR-3728	4.0	7.0	5.5	PPG-PR 666	4.0	6.0	5.0	
HIGH OCTANE	5.0	6.0	5.5	PPG-PR 667	3.7	6.3	5.0	
LTP-NR	4.0	7.0	5.5	BAR LP 22256	4.0	5.7	4.8	
PPG-PR 661	4.3	6.7	5.5	SGP4	4.0	5.7	4.8	
PST-2ADS	4.7	6.3	5.5	DLF-PR-3736	4.3	5.3	4.8	
VORTEX SRT (PPG-PR 665)	5.7	5.3	5.5	PPG-PR 639	3.7	6.0	4.8	
BAR LP 22191	4.0	6.7	5.3	PPG-PR 664	3.7	6.0	4.8	
BAR LP 22263	4.7	6.0	5.3	PVF-SGS5	3.7	6.0	4.8	
DARK MATTER	4.7	6.0	5.3	PPG-PR 646	3.3	6.0	4.7	
DLF-PR-3729	4.7	6.0	5.3	SEPR-2013	4.0	5.3	4.7	
DLF-PR-3737	4.7	6.0	5.3	PPG-PR 637	4.3	5.0	4.7	
FLIGHTLINE (PST-214)	4.7	6.0	5.3	DLF-PR-3735	4.0	5.0	4.5	
LIGHTSPEED (PST-2DRG)	4.0	6.7	5.3	PST-2SPF	3.7	5.3	4.5	
PPG-PR 606	4.7	6.0	5.3	LINN	3.3	4.0	3.7	
PPG-PR 670	5.0	5.7	5.3					
PST-2HFM	4.0	6.7	5.3	LSD VALUE	1.7	1.1	1.0	
RELIC (PPG-PR 611)	4.0	6.7	5.3	C.V. (%)	23.0	11.2	16.4	

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

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

TABLE 34. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT AMES, IA 1/
2023 DATA 2/

NAME	4 WEEKS	7 WEEKS	MEAN	NAME	4 WEEKS	7 WEEKS	MEAN
HOMERUN LS	39.3	81.7	60.5	BSG-PR22	24.3	57.3	40.8
SILETZ	42.3	73.7	58.0	PPG-PR 620	23.7	58.0	40.8
GO-RUS21	35.3	79.3	57.3	ULTRA SPORT (PST-2HAF20)	29.0	52.7	40.8
GO-RUS20	41.3	71.0	56.2	BRIGHTSTAR SLT	20.3	61.0	40.7
PPG-PR 668	30.0	75.3	52.7	PROMINENT II (TSC-CRS)	23.0	58.3	40.7
BAR LP 22174	33.0	68.0	50.5	PPG-PR 666	26.3	54.7	40.5
20PR10	34.0	66.3	50.2	SGP4	28.7	52.3	40.5
VORTEX SRT (PPG-PR 665)	29.7	68.7	49.2	PPG-PR 643	21.3	58.3	39.8
HIGH OCTANE	32.0	65.3	48.7	PPG-PR 662	21.3	58.3	39.8
PPG-PR 637	35.0	62.0	48.5	QUASAR	24.0	55.7	39.8
PS4	28.3	68.0	48.2	GREENBACK	26.3	53.0	39.7
PST-2BGL	30.7	64.7	47.7	PST-2E6	29.7	49.0	39.3
PPG-PR 602	29.7	65.3	47.5	DLF-LGT-3066	21.3	57.0	39.2
PPG-PR 671	22.0	68.7	45.3	PVF-SGS5	24.0	54.0	39.0
PPG-PR 610	29.0	61.3	45.2	BAR LP 22263	15.7	62.0	38.8
RC20-020	30.3	60.0	45.2	LIGHTSPEED (PST-2DRG)	22.0	55.3	38.7
DARK MATTER	30.7	59.3	45.0	PPG-PR 606	18.7	58.0	38.3
SUNDOWN (BY-PS2)	29.7	60.3	45.0	DLF-PR-3726	25.3	50.7	38.0
APS	23.7	65.7	44.7	PISTON	21.3	53.7	37.5
PST-2ADS	25.3	63.0	44.2	DLF-PR-3736	16.3	57.0	36.7
PST-2EGY	30.7	57.7	44.2	PPG-PR 663	19.7	53.7	36.7
DLF-PR-3729	27.7	60.0	43.8	PST-2SPF	26.3	46.7	36.5
GRAY EAGLE SLT (PST-2MEG)	25.3	62.3	43.8	PPG-PR 667	19.7	53.0	36.3
DLF-PR-3737	32.7	54.7	43.7	LTP-NR	18.7	53.3	36.0
PST-2HFM	32.7	54.7	43.7	PPG-PR 639	29.3	42.3	35.8
STELLAR 4GL	28.3	58.3	43.3	SEPR-2013	21.3	47.7	34.5
NEXUS DK (SE-DK)	23.3	63.0	43.2	PPG-PR 642	16.7	52.0	34.3
PERFORMANCE (NAI-PR5)	26.0	60.3	43.2	CJP1R	16.3	50.7	33.5
PVF-RPP2	30.7	55.7	43.2	PPG-PR 658	19.0	47.7	33.3
PPG-PR 644	25.0	61.0	43.0	PPG-PR 661	21.0	45.0	33.0
LTP-RPP4	37.7	48.0	42.8	BAR LP 22256	15.3	48.7	32.0
MRSL-PR22	28.7	57.0	42.8	PPG-PR 664	18.0	45.7	31.8
GO-RUS22	26.0	59.0	42.5	DLF-PR-3727	20.0	42.0	31.0
PST-2GDS	18.3	66.7	42.5	DLF-PR-3728	20.3	41.3	30.8
PST-2MES1	24.3	60.3	42.3	LINN	22.0	38.3	30.2
RPP3	25.7	59.0	42.3	DLF-PR-3735	18.3	40.7	29.5
PPG-PR 647	25.7	58.0	41.8	FLIGHTLINE (PST-214)	14.7	43.3	29.0
DLF-PR-3730	26.3	57.0	41.7	KARMA	16.7	39.7	28.2
BAR LP 22191	25.7	57.3	41.5	ALPHA CENTAURI	16.0	39.7	27.8
BAR LP 22262	25.3	57.7	41.5	PPG-PR 646	16.7	34.0	25.3
RELIC (PPG-PR 611)	27.3	55.7	41.5				
DLF-PR-3738	26.0	56.7	41.3	LSD VALUE	18.6	28.1	15.8
PPG-PR 670	25.3	57.3	41.3	C.V. (%)	32.1	21.4	19.5

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 35.

POA ANNUA RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT WEST LAFAYETTE (FAIRWAY), IN 1/
2023 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/							
NAME	MAY	OCTOBER	MEAN	NAME	MAY	OCTOBER	MEAN
DLF-PR-3727	6.0	7.0	6.5	DLF-PR-3737	4.3	5.3	4.8
GO-RUS21	5.3	6.7	6.0	PPG-PR 671	4.7	5.0	4.8
VORTEX SRT (PPG-PR 665)	5.7	6.3	6.0	GRAY EAGLE SLT (PST-2MEG)	5.0	4.7	4.8
20PR10	5.7	6.0	5.8	LIGHTSPEED (PST-2DRG)	4.7	5.0	4.8
GO-RUS20	5.3	6.3	5.8	LTP-NR	5.0	4.7	4.8
PPG-PR 668	5.7	6.0	5.8	PPG-PR 663	4.3	5.3	4.8
DLF-PR-3728	5.7	5.7	5.7	PS4	5.0	4.7	4.8
DLF-PR-3730	5.0	6.3	5.7	RELIC (PPG-PR 611)	4.7	5.0	4.8
PPG-PR 662	5.0	6.3	5.7	BAR LP 22191	4.7	4.7	4.7
QUASAR	5.3	6.0	5.7	DLF-LGT-3066	5.0	4.3	4.7
RC20-020	6.0	5.3	5.7	DLF-PR-3735	5.0	4.3	4.7
SILETZ	5.3	6.0	5.7	FLIGHTLINE (PST-214)	4.7	4.7	4.7
ALPHA CENTAURI	5.7	5.3	5.5	GREENBACK	4.7	4.7	4.7
APS	5.0	6.0	5.5	HIGH OCTANE	5.0	4.3	4.7
BRIGHTSTAR SLT	5.0	6.0	5.5	LINN	5.3	4.0	4.7
DLF-PR-3729	5.0	6.0	5.5	LTP-RPP4	4.3	5.0	4.7
PPG-PR 670	5.3	5.7	5.5	PPG-PR 642	4.3	5.0	4.7
PPG-PR 637	5.3	5.7	5.5	PPG-PR 647	4.7	4.7	4.7
BAR LP 22174	5.0	5.7	5.3	PST-2HFM	4.3	5.0	4.7
DLF-PR-3736	5.0	5.7	5.3	RPP3	5.0	4.3	4.7
DLF-PR-3738	5.3	5.3	5.3	ULTRA SPORT (PST-2HAF20)	4.3	5.0	4.7
HOMERUN LS	5.0	5.7	5.3	PPG-PR 643	4.3	4.7	4.5
KARMA	5.7	5.0	5.3	PPG-PR 661	4.3	4.7	4.5
PST-2BGL	5.0	5.7	5.3	PROMINENT II (TSC-CRS)	5.0	4.0	4.5
PST-2GDS	5.0	5.7	5.3	PST-2E6	4.7	4.3	4.5
PST-2MES1	5.0	5.7	5.3	PVF-RPP2	4.7	4.3	4.5
DLF-PR-3726	4.7	5.7	5.2	SGP4	4.3	4.7	4.5
PERFORMANCE (NAI-PR5)	5.0	5.3	5.2	BSG-PR22	4.3	4.3	4.3
PPG-PR 610	5.0	5.3	5.2	PISTON	4.0	4.7	4.3
PPG-PR 664	5.0	5.3	5.2	PPG-PR 602	4.3	4.3	4.3
PPG-PR 666	5.0	5.3	5.2	PPG-PR 620	4.3	4.3	4.3
PST-2ADS	5.3	5.0	5.2	PPG-PR 646	4.3	4.3	4.3
PST-2EGY	4.7	5.7	5.2	CJF1R	4.7	3.7	4.2
PVF-SGS5	5.0	5.3	5.2	DARK MATTER	4.3	4.0	4.2
BAR LP 22256	5.0	5.0	5.0	PPG-PR 644	4.3	4.0	4.2
BAR LP 22262	5.0	5.0	5.0	MRSL-PR22	4.7	3.7	4.2
GO-RUS22	5.0	5.0	5.0	SEPR-2013	4.7	3.7	4.2
PPG-PR 606	5.0	5.0	5.0	NEXUS DK (SE-DK)	4.0	3.7	3.8
PPG-PR 639	4.7	5.3	5.0	BAR LP 22263	4.0	3.3	3.7
PPG-PR 667	4.3	5.7	5.0	PST-2SPF	3.3	3.3	3.3
STELLAR 4GL	5.0	5.0	5.0				
SUNDOWN (BY-PS2)	5.0	5.0	5.0	LSD VALUE	3.4	1.9	1.8
PPG-PR 658	5.0	4.7	4.8	C.V. (%)	16.9	18.5	15.4

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

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

APPENDIX TABLE.

SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS */
2023 DATA

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

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/	NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
PPG-PR 606	6.2	35	PPG-PR 602	6.0	20
20PR10	6.1	35	PPG-PR 606	6.2	35
ALPHA CENTAURI	6.1	20	PPG-PR 610	6.1	40
PPG-PR 658	6.2	35	PPG-PR 620	6.0	25
APS	6.3	55	PPG-PR 639	6.2	50
BAR LP 22174	5.9	25	PPG-PR 642	6.1	20
BAR LP 22191	5.8	5	PPG-PR 643	6.0	40
BAR LP 22256	5.6	0	PPG-PR 646	5.9	20
BAR LP 22262	5.5	0	PPG-PR 647	6.0	30
BAR LP 22263	5.7	20	PPG-PR 661	6.2	50
BRIGHTSTAR SLT	5.5	10	PPG-PR 662	6.2	35
BSG-PR22	5.6	20	PPG-PR 663	6.1	30
CJP1R	6.0	30	PPG-PR 664	6.2	55
DARK MATTER	5.6	0	PPG-PR 666	6.1	50
DLF-LGT-3066	5.6	0	PPG-PR 667	6.1	30
DLF-PR-3726	6.2	45	PPG-PR 668	6.2	50
DLF-PR-3727	5.9	25	PPG-PR 670	6.2	65
DLF-PR-3728	6.2	55	PROMINENT II (TSC-CRS)	5.4	0
DLF-PR-3729	6.0	25	PS4	6.1	15
DLF-PR-3730	6.1	40	PST-2ADS	6.1	30
DLF-PR-3735	5.8	10	PST-2BGL	5.9	10
DLF-PR-3736	6.1	30	PST-2E6	5.8	5
DLF-PR-3737	5.7	10	PST-2EGY	6.0	20
DLF-PR-3738	6.1	40	PST-2GDS	6.0	15
PPG-PR 671	6.1	30	PST-2HFM	6.0	25
FLIGHTLINE (PST-214)	6.1	30	PST-2MES1	6.0	15
GO-RUS20	5.9	20	PST-2SPF	5.1	10
GO-RUS21	6.1	30	PVF-RPP2	6.1	25
GO-RUS22	5.8	10	PVF-SGS5	6.1	45
GRAY EAGLE SLT (PST-2MEG)	5.9	25	QUASAR	5.9	15
GREENBACK	5.7	10	RC20-020	5.7	10
HIGH OCTANE	5.6	0	RELIC (PPG-PR 611)	6.1	35
PPG-PR 644	6.1	35	RPP3	5.7	5
HOMERUN LS	5.9	25	SEPR-2013	5.3	0
KARMA	5.7	5	SGP4	6.1	25
LIGHTSPEED (PST-2DRG)	5.7	5	SILETZ	6.2	50
LINN	4.1	5	PPG-PR 637	6.2	50
LTP-NR	5.9	10	STELLAR 4GL	6.0	25
LTP-RPP4	6.1	30	SUNDOWN (BY-PS2)	6.0	15
MRSL-PR22	5.6	10	ULTRA SPORT (PST-2HAF20)	6.1	40
NEXUS DK (SE-DK)	5.6	5	VORTEX SRT (PPG-PR 665)	6.2	35
PERFORMANCE (NAI-PR5)	6.1	45			
PISTON	6.0	30	LSD VALUE	0.3	
			C.V. (%)	5.2	

*/ 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.