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 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.

Executive Director - Kevin N. Morris, National Turfgrass Evaluation Program, Inc.

CURRENT POLICY COMMITTEE MEMBERS:

Mr. Aaron Kuenzi, Mountain View Seeds
Mr. Ryan Jeffries, Columbia Seeds, Inc.
Dr. Cole Thompson, USGA Green Section
Dr. Charles Fontanier, Oklahoma State University
Dr. Alec Kowalewski, Oregon State University
Mr. Mike Selman, Buena Vista Turf Farm
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America
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Mr. Steve Reid, DLF Pickseed USA
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<center>**A Guide to NTEP Turfgrass Ratings**</center>

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*.

2014 NATIONAL FINELEAF FESCUE TEST

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
California	Riverside	CA3
California	San Francisco	CA5
Connecticut	Storrs (Traffic Study)	CT1
Connecticut	Storrs	CT2
Illinois	Carbondale (Shade)	IL2
Indiana	West Lafayette (Fairway Mowing)	IN1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Michigan	East Lansing (Fairway Mowing)	MI2
Michigan	East Lansing (Fairway/Traffic)	MI3
Minnesota	St. Paul (Fairway Mowing)	MN1
Minnesota	St. Paul	MN2
Minnesota	St. Paul (Fairway Mowing/Traffic)	MN3
Missouri	Columbia	MO1
North Carolina	Raleigh	NC1
North Dakota	Fargo	ND1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New Jersey	North Brunswick (Traffic)	NJ3
Oregon	Corvallis	OR1
Oregon	Corvallis (Traffic Study)	OR2

2014 NATIONAL FINELEAF FESCUE TEST
Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	Minimus	Hard Fescue	Landmark Turf & Native Seed
*2	Marvel	Strong Creeping Red	Landmark Turf & Native Seed
3	7C34	Strong Creeping Red	Brett Young Seeds Ltd
4	DLFPS-FL/3066	Hard Fescue	DLF Pickseed USA
*5	Spindrift(DLFPS-FRC/3060)	Chewings Fescue	DLF Pickseed USA
6	DLFPS-FL/3060	Hard Fescue	DLF Pickseed USA
7	DLFPS-FRR/3069	Strong Creeping Red	DLF Pickseed USA
8	MNHD-14	Hard Fescue	University of Minnesota
9	DLFPS-FRR/3068	Strong Creeping Red	DLF Pickseed USA
*10	Quatro	Sheep Fescue	Standard
*11	Boreal	Strong Creeping Red	Standard
*12	Gladiator (TH456)	Hard Fescue	Columbia River Seed
*13	Resolute (7H7)	Hard Fescue	SiteOne Landscape Supply
*14	Sword	Hard Fescue	Columbia River Seed
*15	Seabreeze GT	Slender Creeping Red	Standard
*16	Radar	Chewings Fescue	Standard
*17	Beacon	Hard Fescue	Standard
*18	Navigator II	Strong Creeping Red	Standard
*19	Jetty (PPG-FL 106)	Hard Fescue	Mountain View Seeds
*20	Momentum (PPG-FRC 114)	Chewings Fescue	The Scotts Company
*21	SeaMist (PPG-FRT 101)	Slender Creeping Red	Mountain View Seeds
*22	Cardinal II (PPG-FRR 111)	Strong Creeping Red	Mountain View Seeds
*23	Compass II (PPG-FRC 113)	Chewings Fescue	Mountain View Seeds
*24	Kent	Strong Creeping Red	Columbia Seeds
*25	Castle (RAD-FC32)	Chewings Fescue	Columbia Seeds
*26	Barpearl (BAR FRT 5002)	Slender Creeping Red	Barenbrug USA
27	BAR VV-VP3-CT	Chewings Fescue	Barenbrug USA
*28	Sandrine (BAR 6FR 126)	Chewings Fescue	Barenbrug USA
*29	Bolster (C14-OS3)	Chewings Fescue	The Scotts Company
30	RAD-FR33R	Strong Creeping Red	Brett Young Seed LTD
*31	RAD-FC44	Chewings Fescue	Bailey Seed Company
*32	RAD-FR47	Creeping Red Fescue	Bailey Seed Company
33	PST-4DR4	Creeping Red Fescue	Pure Seed Testing Inc.
34	PST-4RUE	Creeping Red Fescue	Pure Seed Testing Inc.
35	PST-4BEN	Creeping Red Fescue	Pure Seed Testing Inc.
36	PST-4BND	Hard Fescue	Pure Seed Testing Inc.
37	PST-4ED4	Creeping Red Fescue	DLF-Moore Seed, Inc.
*38	Leeward (DLFPS-FRC/3057)	Chewings Fescue	DLF Pickseed USA
*39	Cascade	Chewings Fescue	Standard
40	DLF-FRC 3338	Chewings Fescue	DLF Pickseed USA
41	DLF-FRR 6162	Creeping Red Fescue	DLF Pickseed USA
*42	Beudin	Slender Creeping Red	DLF Pickseed USA

* Commercially Available in the USA or any other Country in 2020

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TABLE A.                          2019 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
                                       THE 2014 NATIONAL FINELEAF FESCUE TEST

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

   CA3    SANDY LOAM          7.1-7.5  61-150      151-240       1.1-2.0       FULL SUN       4.1+    TO PREVENT STRESS
   CA5    SANDY LOAM          6.6-7.0  61-150      151-240       1.1-2.0       PARTIAL SHADE  0.0-0.5 ONLY DURING SEVERE STRESS
   CT1    SANDY LOAM          5.6-6.0  0-60        0-150            -          FULL SUN       0.0-0.5 TO PREVENT DORMANCY

   CT2    SANDY LOAM          5.6-6.0  0-60        0-150            -          FULL SUN       0.0-0.5 TO PREVENT DORMANCY
   IL2    SILTY CLAY LOAM     6.1-6.5  0-60        241-375       1.1-2.0       UNIFORM SHADE  2.1-2.5 NO IRRIGATION
   IN1    SILT LOAM AND SILT  7.1-7.5  61-150      151-240       2.1-3.0       FULL SUN       0.6-1.0 ONLY DURING SEVERE STRESS

   MD1    SILT LOAM AND SILT  6.1-6.5  61-150      151-240       0.0-1.0       FULL SUN       3.1-3.5 NO IRRIGATION
   MI1       -                 -         -           -             -             -            -         -
   MI2       -                 -         -           -             -             -            -         -

   MI3       -                 -         -           -             -             -            -         -
   MN1    SILTY CLAY LOAM     6.6-7.0  61-150      241-375       0.0-1.0       FULL SUN       0.0-0.5 NO IRRIGATION
   MN2    SILTY CLAY LOAM     6.1-6.5  61-150      241-375       0.0-1.0       FULL SUN       2.1-2.5 NO IRRIGATION

   MN3    SILTY CLAY LOAM     6.6-7.0  61-150      241-375       0.0-1.0       FULL SUN       0.0-0.5 NO IRRIGATION
   MO1       -                 -         -           -             -             -            -         -
   NC1    SILTY CLAY LOAM     6.1-6.5  61-150      0-150         3.1-4.0       FULL SUN       3.1-3.5 TO PREVENT STRESS

   ND1    SILTY CLAY AND CLAY 7.1-7.5  0-60        151-240       2.1-3.0       FULL SUN       1.6-2.0 TO PREVENT DORMANCY
   NJ1    LOAM                5.6-6.0  151-270     151-240       0.0-1.0       PARTIAL SHADE  2.1-2.5 TO PREVENT STRESS
   NJ2    SANDY LOAM          6.1-6.5  271-450     241-375       0.0-1.0       FULL SUN       1.1-1.5 TO PREVENT STRESS

   NJ3    LOAM                5.6-6.0  151-270     151-240       0.0-1.0       PARTIAL SHADE  2.1-2.5 TO PREVENT STRESS
   OR1    SILTY CLAY LOAM     5.6-6.0  61-150      501+          1.1-2.0       FULL SUN       2.1-2.5 TO PREVENT STRESS
   OR2    SILTY CLAY LOAM     5.6-6.0  61-150      501+          1.1-2.0       FULL SUN       2.1-2.5 TO PREVENT STRESS
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TABLE B.   LOCATIONS AND DATA COLLECTED IN 2019

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
CA3	X	X	X	X	X	X	X	X	X	X	X	X	X		
CA5	X	X	X	X	X	X	X	X	X	X	X		X		
CT1					X	X	X	X	X	X				X	
CT2					X	X	X	X	X	X				X	
IL2			X	X	X	X	X	X	X	X	X				
IN1					X	X	X	X	X						
MD1					X				X	X	X				
MI1					X		X	X	X	X				X	
MI2					X	X	X	X		X				X	
MI3					X	X	X	X		X				X	
MN1					X	X	X	X	X	X				X	
MN2					X	X	X	X	X	X				X	
MN3					X	X	X	X	X	X				X	
MO1				X	X	X	X	X	X	X					
NC1			X	X	X	X	X	X					X	X	X
ND1					X	X	X	X	X					X	
NJ1				X	X	X	X	X	X	X				X	
NJ2				X	X	X	X	X	X	X			X		
NJ3															
OR1	X	X	X	X	X	X	X	X	X	X	X				
OR2	X	X	X	X	X	X	X	X	X	X	X	X			

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TABLE B.   LOCATIONS AND DATA COLLECTED IN 2019
(CONT'D)

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	DOLLAR SPOT	RED THREAD	FALL COLOR DECEMBER	PERCENT CRABGRASS	PERCENT WEEDS (OCTOBER)
CA3		X									
CA5	X	X	X				X		X		
CT1				X	X	X					
CT2				X	X	X					
IL2				X	X						
IN1		X									
MD1											
MI1							X	X			
MI2				X	X	X	X				
MI3				X	X	X	X				
* MN1				X	X	X				X	
MN2						X					X
* MN3				X	X	X					
MO1								X			
NC1	X	X									
ND1	X	X	X	X	X	X					
NJ1											
NJ2						X					
* NJ3											
OR1											
OR2											

* MORE DATA FOR MN1, MN3 AND NJ3 IN TABLE 25, 6 AND 7.

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TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2019 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	# ENTRY	NJ1	NJ2	NC1	MI1	MO1	ND1	OR1	MEAN
*COMPASS II (PPG-FRC 113)	23	7.7	4.6	4.8	6.6	6.9	6.5	5.8	6.1
*MOMENTUM (PPG-FRC 114)	20	8.0	4.7	5.8	6.0	6.4	6.4	5.6	6.1
MNHD-14	8	7.7	5.2	4.4	6.5	5.2	7.5	6.1	6.1
DLF-FRC 3338	40	8.2	4.3	4.3	6.5	6.7	6.7	5.8	6.1
*LEEWARD (DLFPS-FRC/3057)	38	7.9	4.3	4.8	6.5	6.8	6.5	5.8	6.1
*SEAMIST (PPG-FRT 101)	21	8.3	4.2	5.1	6.1	6.1	6.8	5.8	6.1
*RADAR	16	8.4	4.4	4.2	6.5	6.7	6.6	5.7	6.1
*BOLSTER (C14-OS3)	29	8.6	4.1	3.6	6.5	6.4	6.7	5.7	5.9
DLF-FRR 6162	41	8.2	4.0	4.9	6.0	5.5	7.1	5.9	5.9
PST-4BEN	35	8.2	3.8	5.3	5.8	5.2	7.2	5.9	5.9
*GLADIATOR (TH456)	12	5.3	5.9	3.9	7.0	5.4	7.7	6.3	5.9
*JETTY (PPG-FL 106)	19	8.2	5.4	4.3	6.0	4.6	7.4	5.7	5.9
7C34	3	8.4	3.9	4.7	5.9	5.2	7.3	5.9	5.9
*CARDINAL II (PPG-FRR 111)	22	7.7	3.9	4.5	6.2	5.7	7.0	5.9	5.8
MINIMUS	1	6.4	5.6	5.6	5.7	4.6	6.9	5.5	5.8
DLFPS-FL/3066	4	6.2	5.5	4.2	6.3	4.9	7.3	5.8	5.7
*SPINDRIFT (DLFPS-FRC/3060)	5	8.3	3.7	3.5	6.2	5.4	7.1	5.8	5.7
PST-4RUE	34	7.4	3.5	4.4	5.9	5.2	7.0	5.8	5.6
DLFPS-FRR/3068	9	8.1	3.4	3.6	5.9	5.4	6.8	5.6	5.6
*BEACON	17	6.7	4.5	2.7	6.5	5.4	7.0	5.7	5.5
BAR VV-VP3-CT	27	5.6	4.2	4.3	6.2	5.6	6.8	5.7	5.5
*RAD-FC44	31	6.0	3.9	4.1	6.2	5.9	6.6	5.7	5.5
*CASCADE	39	7.1	3.2	4.4	5.8	5.7	6.5	5.6	5.5
RAD-FR33R	30	8.2	3.0	3.0	5.9	5.0	7.1	5.7	5.4
DLFPS-FL/3060	6	5.7	5.0	2.4	6.7	5.1	7.2	5.8	5.4
*SWORD	14	5.4	4.9	3.8	6.2	5.1	6.8	5.6	5.4
DLFPS-FRR/3069	7	6.7	3.3	3.7	6.0	5.4	6.9	5.7	5.4
PST-4DR4	33	7.2	3.1	3.3	6.0	5.0	7.2	5.8	5.4
*CASTLE (RAD-FC32)	25	5.5	4.2	3.1	6.5	5.7	6.8	5.7	5.4
PST-4BND	36	4.2	4.6	3.7	6.5	5.3	7.0	5.8	5.3
*SANDRINE (BAR 6FR 126)	28	6.5	3.5	3.0	6.2	5.2	7.0	5.8	5.3
*QUATRO	10	7.6	3.2	3.4	5.7	4.6	7.0	5.5	5.3
*RESOLUTE (7H7)	13	4.1	5.9	2.5	6.8	4.4	7.5	5.8	5.3
PST-4ED4	37	7.5	2.9	3.3	5.7	5.3	6.5	5.4	5.2
*MARVEL	2	7.3	2.9	2.9	5.8	4.7	7.1	5.7	5.2
*BARPEARL (BAR FRT 5002)	26	4.0	4.0	3.4	6.5	5.1	7.4	6.1	5.2
*NAVIGATOR II	18	8.0	2.6	2.5	5.7	4.9	6.8	5.5	5.2
*KENT	24	6.3	3.2	3.3	5.9	4.7	7.1	5.7	5.2
*BOREAL	11	6.3	2.6	3.8	5.8	5.0	6.9	5.7	5.2
*SEABREEZE GT	15	4.8	3.6	3.4	6.0	4.7	6.9	5.6	5.0
*RAD-FR47	32	7.1	2.7	2.1	5.9	4.5	7.2	5.6	5.0
*BEUDIN	42	3.6	3.5	1.7	6.9	5.4	7.3	6.1	5.0
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		9.3	15.9	16.8	10.3	11.9	9.2	11.1	11.5

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2020

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

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

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

TABLE 1B.   TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                              GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
                                              2019 DATA

NAME	# ENTRY	NJ1	NJ2	NC1	MI1	MO1	ND1	OR1	MEAN
COMPASS II (PPG-FRC 113)	23	7.7	4.6	4.8	6.6	6.9	6.5	5.8	6.1
MOMENTUM (PPG-FRC 114)	20	8.0	4.7	5.8	6.0	6.4	6.4	5.6	6.1
DLF-FRC 3338	40	8.2	4.3	4.3	6.5	6.7	6.7	5.8	6.1
LEEWARD (DLFPS-FRC/3057)	38	7.9	4.3	4.8	6.5	6.8	6.5	5.8	6.1
RADAR	16	8.4	4.4	4.2	6.5	6.7	6.6	5.7	6.1
BOLSTER (C14-OS3)	29	8.6	4.1	3.6	6.5	6.4	6.7	5.7	5.9
SPINDRIFT (DLFPS-FRC/3060)	5	8.3	3.7	3.5	6.2	5.4	7.1	5.8	5.7
BAR VV-VP3-CT	27	5.6	4.2	4.3	6.2	5.6	6.8	5.7	5.5
RAD-FC44	31	6.0	3.9	4.1	6.2	5.9	6.6	5.7	5.5
CASCADE	39	7.1	3.2	4.4	5.8	5.7	6.5	5.6	5.5
CASTLE (RAD-FC32)	25	5.5	4.2	3.1	6.5	5.7	6.8	5.7	5.4
SANDRINE (BAR 6FR 126)	28	6.5	3.5	3.0	6.2	5.2	7.0	5.8	5.3
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		8.7	15.6	15.4	10.1	10.5	9.6	11.1	11.1

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

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TABLE 1C.   TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                    GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
                                                    2019 DATA

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

NAME	# ENTRY	NJ1	NJ2	NC1	MI1	MO1	ND1	OR1	MEAN
DLF-FRR 6162	41	8.2	4.0	4.9	6.0	5.5	7.1	5.9	5.9
PST-4BEN	35	8.2	3.8	5.3	5.8	5.2	7.2	5.9	5.9
7C34	3	8.4	3.9	4.7	5.9	5.2	7.3	5.9	5.9
CARDINAL II (PPG-FRR 111)	22	7.7	3.9	4.5	6.2	5.7	7.0	5.9	5.8
PST-4RUE	34	7.4	3.5	4.4	5.9	5.2	7.0	5.8	5.6
DLFPS-FRR/3068	9	8.1	3.4	3.6	5.9	5.4	6.8	5.6	5.6
RAD-FR33R	30	8.2	3.0	3.0	5.9	5.0	7.1	5.7	5.4
DLFPS-FRR/3069	7	6.7	3.3	3.7	6.0	5.4	6.9	5.7	5.4
PST-4DR4	33	7.2	3.1	3.3	6.0	5.0	7.2	5.8	5.4
PST-4ED4	37	7.5	2.9	3.3	5.7	5.3	6.5	5.4	5.2
MARVEL	2	7.3	2.9	2.9	5.8	4.7	7.1	5.7	5.2
NAVIGATOR II	18	8.0	2.6	2.5	5.7	4.9	6.8	5.5	5.2
KENT	24	6.3	3.2	3.3	5.9	4.7	7.1	5.7	5.2
BOREAL	11	6.3	2.6	3.8	5.8	5.0	6.9	5.7	5.2
RAD-FR47	32	7.1	2.7	2.1	5.9	4.5	7.2	5.6	5.0
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		8.5	19.7	17.4	10.8	12.5	9.1	11.2	11.7

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

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TABLE 1D.                       TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                  GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1  */
                                                    2019 DATA

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

NAME                     # ENTRY    NJ1      NJ2      NC1      MI1      MO1      ND1      OR1      MEAN

MNHD-14                      8      7.7      5.2      4.4      6.5      5.2      7.5      6.1      6.1
GLADIATOR (TH456)           12      5.3      5.9      3.9      7.0      5.4      7.7      6.3      5.9
JETTY (PPG-FL 106)          19      8.2      5.4      4.3      6.0      4.6      7.4      5.7      5.9
MINIMUS                      1      6.4      5.6      5.6      5.7      4.6      6.9      5.5      5.8
DLFPS-FL/3066                4      6.2      5.5      4.2      6.3      4.9      7.3      5.8      5.7
BEACON                      17      6.7      4.5      2.7      6.5      5.4      7.0      5.7      5.5
DLFPS-FL/3060                6      5.7      5.0      2.4      6.7      5.1      7.2      5.8      5.4
SWORD                       14      5.4      4.9      3.8      6.2      5.1      6.8      5.6      5.4
PST-4BND                    36      4.2      4.6      3.7      6.5      5.3      7.0      5.8      5.3
QUATRO                      10      7.6      3.2      3.4      5.7      4.6      7.0      5.5      5.3
RESOLUTE (7H7)              13      4.1      5.9      2.5      6.8      4.4      7.5      5.8      5.3

LSD VALUE                           1.0      1.0      1.0      1.0      1.0      1.0      1.0      1.0
C.V. (%)                           10.5     12.6     17.2     10.1     12.9      8.9     11.0     11.4

TABLE 1E.                       TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                  GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1  */
                                                    2019 DATA

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

NAME                     # ENTRY    NJ1      NJ2      NC1      MI1      MO1      ND1      OR1      MEAN

SEAMIST (PPG-FRT 101)       21      8.3      4.2      5.1      6.1      6.1      6.8      5.8      6.1
BARPEARL (BAR FRT 5002)     26      4.0      4.0      3.4      6.5      5.1      7.4      6.1      5.2
SEABREEZE GT                15      4.8      3.6      3.4      6.0      4.7      6.9      5.6      5.0
BEUDIN                      42      3.6      3.5      1.7      6.9      5.4      7.3      6.1      5.0

LSD VALUE                           1.0      1.0      1.0      1.0      1.0      1.0      1.0      1.0
C.V. (%)                           12.4     16.8     18.7     10.0     12.0      9.0     10.8     12.1
```

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

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TABLE 2A.                         TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                              GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                              2019 DATA
                              TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF  2/


                    NAME                          # ENTRY     MD1       MN2       MEAN

                    RESOLUTE (7H7)                   13       6.4       7.3       6.9
                    GLADIATOR (TH456)                12       6.3       7.1       6.7
                    DLFPS-FL/3060                     6       5.9       6.6       6.3
                    JETTY (PPG-FL 106)               19       6.0       6.4       6.2
                    DLFPS-FL/3066                     4       5.8       6.4       6.1
                    MNHD-14                           8       5.9       6.2       6.0
                    BEACON                           17       5.6       6.1       5.8
                    MINIMUS                           1       5.4       5.9       5.7
                    RADAR                            16       5.4       5.8       5.6
                    SWORD                            14       5.3       5.9       5.6
                    BOLSTER (C14-OS3)                29       5.3       5.6       5.5
                    COMPASS II (PPG-FRC 113)         23       5.3       5.7       5.5
                    DLF-FRC 3338                     40       5.3       5.6       5.4
                    LEEWARD (DLFPS-FRC/3057)         38       5.0       5.4       5.2
                    MOMENTUM (PPG-FRC 114)           20       5.0       5.4       5.2
                    PST-4BND                         36       4.8       5.4       5.1
                    CASTLE (RAD-FC32)                25       4.9       5.3       5.1
                    SEAMIST (PPG-FRT 101)            21       4.8       4.9       4.8
                    SPINDRIFT (DLFPS-FRC/3060)        5       4.8       4.8       4.8
                    BAR VV-VP3-CT                    27       4.5       4.9       4.7
                    CARDINAL II (PPG-FRR 111)        22       4.5       4.6       4.6
                    BEUDIN                           42       4.3       4.7       4.5
                    DLF-FRR 6162                     41       4.5       4.5       4.5
                    RAD-FC44                         31       4.3       4.6       4.5
                    7C34                              3       4.5       4.4       4.4
                    SANDRINE (BAR 6FR 126)           28       4.3       4.4       4.4
                    BARPEARL (BAR FRT 5002)          26       4.2       4.5       4.3
                    DLFPS-FRR/3068                    9       4.3       4.3       4.3
                    RAD-FR33R                        30       4.1       4.0       4.1
                    PST-4BEN                         35       4.1       4.0       4.0
                    SEABREEZE GT                     15       3.9       4.1       4.0
                    QUATRO                           10       4.0       4.0       4.0
                    PST-4RUE                         34       4.0       4.0       4.0
                    DLFPS-FRR/3069                    7       3.9       4.0       4.0
                    PST-4DR4                         33       3.9       3.8       3.8
                    MARVEL                            2       3.8       3.7       3.8
                    PST-4ED4                         37       3.8       3.8       3.8
                    KENT                             24       3.8       3.8       3.8
                    NAVIGATOR II                     18       3.8       3.7       3.8
                    CASCADE                          39       3.7       3.8       3.7
                    RAD-FR47                         32       3.8       3.7       3.7
                    BOREAL                           11       3.0       2.9       3.0

                    LSD VALUE                                 1.0       1.0       1.0
                    C.V. (%)                                 13.7      13.1      13.4
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*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS
    INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND
    MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO WWW.NTEP.OR/AMMI_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.

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TABLE 2B.                         TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                   GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                                 2019 DATA

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

                    NAME                          # ENTRY    MD1       MN2      MEAN

                    RADAR                           16       5.4       5.8       5.6
                    BOLSTER (C14-OS3)               29       5.3       5.6       5.5
                    COMPASS II (PPG-FRC 113)        23       5.3       5.7       5.5
                    DLF-FRC 3338                    40       5.3       5.6       5.4
                    LEEWARD (DLFPS-FRC/3057)        38       5.0       5.4       5.2
                    MOMENTUM (PPG-FRC 114)          20       5.0       5.4       5.2
                    CASTLE (RAD-FC32)               25       4.9       5.3       5.1
                    SPINDRIFT (DLFPS-FRC/3060)      5        4.8       4.8       4.8
                    BAR VV-VP3-CT                   27       4.5       4.9       4.7
                    RAD-FC44                        31       4.3       4.6       4.5
                    SANDRINE (BAR 6FR 126)          28       4.3       4.4       4.4
                    CASCADE                         39       3.7       3.8       3.7

                    LSD VALUE                                1.0       1.0       1.0
                    C.V. (%)                                13.3      12.5      12.9
```

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS
    INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND
    MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO WWW.NTEP.OR/AMMI_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 2C.   TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
                                                2019 DATA

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

              NAME   # ENTRY   MD1   MN2   MEAN

              CARDINAL II (PPG-FRR 111)   22   4.5   4.6   4.6
              DLF-FRR 6162   41   4.5   4.5   4.5
              7C34   3   4.5   4.4   4.4
              DLFPS-FRR/3068   9   4.3   4.3   4.3
              RAD-FR33R   30   4.1   4.0   4.1
              PST-4BEN   35   4.1   4.0   4.0
              PST-4RUE   34   4.0   4.0   4.0
              DLFPS-FRR/3069   7   3.9   4.0   4.0
              PST-4DR4   33   3.9   3.8   3.8
              MARVEL   2   3.8   3.7   3.8
              PST-4ED4   37   3.8   3.8   3.8
              KENT   24   3.8   3.8   3.8
              NAVIGATOR II   18   3.8   3.7   3.8
              RAD-FR47   32   3.8   3.7   3.7
              BOREAL   11   3.0   2.9   3.0

              LSD VALUE   1.0   1.0   1.0
              C.V. (%)   16.0   16.2   16.1

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

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TABLE 2D.                     TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                              2019 DATA

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


                   NAME                        # ENTRY    MD1      MN2     MEAN

                   RESOLUTE (7H7)                 13      6.4      7.3      6.9
                   GLADIATOR (TH456)              12      6.3      7.1      6.7
                   DLFPS-FL/3060                   6      5.9      6.6      6.3
                   JETTY (PPG-FL 106)             19      6.0      6.4      6.2
                   DLFPS-FL/3066                   4      5.8      6.4      6.1
                   MNHD-14                         8      5.9      6.2      6.0
                   BEACON                         17      5.6      6.1      5.8
                   MINIMUS                         1      5.4      5.9      5.7
                   SWORD                          14      5.3      5.9      5.6
                   PST-4BND                       36      4.8      5.4      5.1
                   QUATRO                         10      4.0      4.0      4.0

                   LSD VALUE                              1.0      1.0      1.0
                   C.V. (%)                              11.4     10.5     10.9
```

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

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

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TABLE 2E.                     TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                              2019 DATA

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

                   NAME                        # ENTRY    MD1      MN2     MEAN

                   SEAMIST (PPG-FRT 101)          21      4.8      4.9      4.8
                   BEUDIN                         42      4.3      4.7      4.5
                   BARPEARL (BAR FRT 5002)        26      4.2      4.5      4.3
                   SEABREEZE GT                   15      3.9      4.1      4.0

                   LSD VALUE                              1.0      1.0      1.0
                   C.V. (%)                              15.0     14.0     14.5
```

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS
    INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND
    MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO WWW.NTEP.OR/AMMI_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 3A. MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN ON A FAIRWAY AT FOUR LOCATIONS IN THE U.S.
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CT1	IN1	MI2	MN1	MEAN
COMPASS II (PPG-FRC 113)	6.4	6.9	7.1	5.3	6.4
BOLSTER (C14-OS3)	6.2	5.1	7.4	6.1	6.2
SEAMIST (PPG-FRT 101)	5.8	6.3	6.9	5.5	6.1
LEEWARD (DLFPS-FRC/3057)	6.2	5.1	6.7	6.1	6.0
MOMENTUM (PPG-FRC 114)	6.2	5.9	6.5	5.1	5.9
RADAR	6.9	4.8	6.3	5.6	5.9
SPINDRIFT (DLFPS-FRC/3060)	6.6	5.3	6.4	5.1	5.8
BAR VV-VP3-CT	5.9	5.1	6.7	5.6	5.8
DLF-FRC 3338	6.3	5.2	6.7	4.7	5.7
DLFPS-FL/3060	5.1	3.3	7.3	6.1	5.4
MNHD-14	5.8	3.4	6.6	5.7	5.4
SANDRINE (BAR 6FR 126)	4.1	4.9	6.7	5.8	5.3
RAD-FC44	5.0	4.6	6.5	5.2	5.3
BARPEARL (BAR FRT 5002)	4.4	.	6.1	5.4	5.3
JETTY (PPG-FL 106)	5.0	3.0	7.1	6.1	5.3
RESOLUTE (7H7)	4.2	3.0	7.2	6.7	5.3
GLADIATOR (TH456)	4.7	3.4	7.1	5.4	5.2
DLFPS-FL/3066	4.4	3.5	6.9	5.6	5.1
7C34	5.4	4.3	6.4	4.1	5.0
DLFPS-FRR/3068	4.5	5.9	5.5	4.2	5.0
MINIMUS	4.5	3.4	7.0	5.2	5.0
DLF-FRR 6162	5.1	5.1	6.0	3.5	4.9
CARDINAL II (PPG-FRR 111)	4.9	5.6	6.1	3.1	4.9
CASCADE	5.3	4.9	5.3	3.9	4.9
CASTLE (RAD-FC32)	5.1	3.9	5.9	4.6	4.9
QUATRO	5.1	3.9	6.5	3.8	4.8
RAD-FR47	4.8	5.4	5.4	3.6	4.8
PST-4BEN	4.7	5.1	5.7	3.4	4.7
PST-4DR4	4.2	5.6	5.5	3.5	4.7
SWORD	4.1	3.4	6.6	4.8	4.7
RAD-FR33R	5.3	4.4	5.6	3.5	4.7
BEUDIN	3.7	4.9	5.9	4.2	4.7
BEACON	4.0	2.3	6.7	5.3	4.6
SEABREEZE GT	3.6	4.9	5.9	3.8	4.5
MARVEL	5.0	4.3	5.6	3.2	4.5
KENT	4.1	5.1	5.1	3.4	4.5
PST-4ED4	4.1	4.3	6.3	2.9	4.4
DLFPS-FRR/3069	4.2	4.7	5.1	3.4	4.4
PST-4RUE	3.9	4.7	6.0	2.7	4.3
BOREAL	4.2	5.1	4.7	3.3	4.3
NAVIGATOR II	4.1	4.3	5.8	2.8	4.3
PST-4BND	2.8	2.8	5.9	4.1	3.9
LSD VALUE	1.2	1.6	0.7	1.0	0.6
C.V. (%)	15.4	19.5	7.4	13.5	13.5

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.

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TABLE 3B.   MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS
                               GROWN ON A FAIRWAY AT FOUR LOCATIONS IN THE U.S.
                                             2019 DATA

                          TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

         NAME   CT1   IN1   MI2   MN1   MEAN

         COMPASS II (PPG-FRC 113)   6.4   6.9   7.1   5.3   6.4
         BOLSTER (C14-OS3)   6.2   5.1   7.4   6.1   6.2
         LEEWARD (DLFPS-FRC/3057)   6.2   5.1   6.7   6.1   6.0
         MOMENTUM (PPG-FRC 114)   6.2   5.9   6.5   5.1   5.9
         RADAR   6.9   4.8   6.3   5.6   5.9
         SPINDRIFT (DLFPS-FRC/3060)   6.6   5.3   6.4   5.1   5.8
         BAR VV-VP3-CT   5.9   5.1   6.7   5.6   5.8
         DLF-FRC 3338   6.3   5.2   6.7   4.7   5.7
         SANDRINE (BAR 6FR 126)   4.1   4.9   6.7   5.8   5.3
         RAD-FC44   5.0   4.6   6.5   5.2   5.3
         CASCADE   5.3   4.9   5.3   3.9   4.9
         CASTLE (RAD-FC32)   5.1   3.9   5.9   4.6   4.9

         LSD VALUE   1.0   1.9   0.6   1.0   0.6
         C.V. (%)   10.7   20.9   5.8   11.6   12.2

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 3C.   MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                               GROWN ON A FAIRWAY AT FOUR LOCATIONS IN THE U.S.
                                             2019 DATA

                          TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

         NAME   CT1   IN1   MI2   MN1   MEAN

         7C34   5.4   4.3   6.4   4.1   5.0
         DLFPS-FRR/3068   4.5   5.9   5.5   4.2   5.0
         DLF-FRR 6162   5.1   5.1   6.0   3.5   4.9
         CARDINAL II (PPG-FRR 111)   4.9   5.6   6.1   3.1   4.9
         RAD-FR47   4.8   5.4   5.4   3.6   4.8
         PST-4BEN   4.7   5.1   5.7   3.4   4.7
         PST-4DR4   4.2   5.6   5.5   3.5   4.7
         RAD-FR33R   5.3   4.4   5.6   3.5   4.7
         MARVEL   5.0   4.3   5.6   3.2   4.5
         KENT   4.1   5.1   5.1   3.4   4.5
         PST-4ED4   4.1   4.3   6.3   2.9   4.4
         DLFPS-FRR/3069   4.2   4.7   5.1   3.4   4.4
         PST-4RUE   3.9   4.7   6.0   2.7   4.3
         BOREAL   4.2   5.1   4.7   3.3   4.3
         NAVIGATOR II   4.1   4.3   5.8   2.8   4.3

         LSD VALUE   0.9   1.3   0.9   1.1   0.5
         C.V. (%)   12.8   15.1   9.4   19.7   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.

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TABLE 3D.   MEAN TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                              GROWN ON A FAIRWAY AT FOUR LOCATIONS IN THE U.S.
                                              2019 DATA

                          TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CT1	IN1	MI2	MN1	MEAN
DLFPS-FL/3060	5.1	3.3	7.3	6.1	5.4
MNHD-14	5.8	3.4	6.6	5.7	5.4
JETTY (PPG-FL 106)	5.0	3.0	7.1	6.1	5.3
RESOLUTE (7H7)	4.2	3.0	7.2	6.7	5.3
GLADIATOR (TH456)	4.7	3.4	7.1	5.4	5.2
DLFPS-FL/3066	4.4	3.5	6.9	5.6	5.1
MINIMUS	4.5	3.4	7.0	5.2	5.0
QUATRO	5.1	3.9	6.5	3.8	4.8
SWORD	4.1	3.4	6.6	4.8	4.7
BEACON	4.0	2.3	6.7	5.3	4.6
PST-4BND	2.8	2.8	5.9	4.1	3.9
LSD VALUE	1.7	1.4	0.7	0.9	0.6
C.V. (%)	23.5	23.1	6.8	10.0	14.9

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 3E.   MEAN TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                              GROWN ON A FAIRWAY AT FOUR LOCATIONS IN THE U.S.
                                              2019 DATA

                          TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CT1	IN1	MI2	MN1	MEAN
SEAMIST (PPG-FRT 101)	5.8	6.3	6.9	5.5	6.1
BARPEARL (BAR FRT 5002)	4.4	.	6.1	5.4	5.3
BEUDIN	3.7	4.9	5.9	4.2	4.7
SEABREEZE GT	3.6	4.9	5.9	3.8	4.5
LSD VALUE	1.1	2.2	0.6	1.0	0.6
C.V. (%)	15.5	22.0	6.1	13.7	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 4A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                     GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT STORRS, CT   1/
                                                      2019 DATA

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

	SPRING	PERCENT GROUND COVER			QUALITY RATINGS						
NAME	GREENUP	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RADAR	7.3	83.3	76.7	76.7	6.0	5.0	5.3	5.5	5.0	5.3	5.3
BAR VV-VP3-CT	6.7	78.3	66.7	70.0	5.3	3.7	4.7	5.0	4.7	5.0	4.7
BOLSTER (C14-OS3)	6.3	66.7	55.0	33.3	4.7	4.3	4.0	4.0	4.3	4.7	4.3
LEEWARD (DLFPS-FRC/3057)	6.3	76.7	50.0	48.3	4.3	4.3	4.3	5.0	4.0	4.0	4.3
MOMENTUM (PPG-FRC 114)	6.7	66.7	66.7	33.3	4.7	4.0	4.0	3.5	3.7	4.0	4.0
CASCADE	6.0	46.7	53.3	30.0	5.0	3.0	3.7	3.3	4.0	4.3	3.9
7C34	5.7	78.3	51.7	43.3	4.7	3.3	3.7	3.5	4.0	3.7	3.8
DLF-FRC 3338	6.7	45.0	53.3	34.3	5.0	4.0	4.0	3.5	3.0	3.3	3.8
QUATRO	5.0	60.0	41.7	36.7	3.3	3.0	3.7	4.0	3.7	4.3	3.7
SPINDRIFT (DLFPS-FRC/3060)	6.7	63.3	53.3	30.0	5.0	3.3	4.0	3.0	3.0	3.3	3.6
SEAMIST (PPG-FRT 101)	6.7	58.3	48.3	26.7	3.7	3.7	3.3	3.5	2.7	3.7	3.4
COMPASS II (PPG-FRC 113)	6.7	65.0	55.0	30.7	3.7	3.7	3.3	4.0	2.7	3.0	3.3
MARVEL	5.7	53.3	38.3	20.0	4.0	2.7	3.0	4.0	3.0	3.3	3.2
RAD-FR33R	5.7	51.7	26.7	14.0	3.3	2.7	3.3	3.0	2.7	2.7	2.9
NAVIGATOR II	5.3	38.3	30.0	11.7	3.3	3.3	2.7	3.0	2.3	2.3	2.8
PST-4BEN	5.7	43.3	25.0	21.7	3.3	1.7	2.7	3.0	2.7	3.0	2.7
CASTLE (RAD-FC32)	5.7	28.3	33.3	18.7	3.0	2.7	3.0	2.5	2.0	3.0	2.6
DLF-FRR 6162	5.7	43.3	26.7	7.3	3.3	2.3	3.0	2.0	2.3	2.7	2.6
KENT	5.3	40.0	21.7	7.7	3.3	2.0	3.0	2.0	2.0	2.3	2.5
PST-4RUE	5.7	41.7	13.7	22.0	3.3	2.0	2.3	3.0	2.0	2.7	2.5
BOREAL	5.7	20.0	27.7	7.0	3.3	2.3	3.0	2.0	1.3	2.3	2.4
DLFPS-FRR/3068	5.3	33.3	13.3	7.0	3.0	2.3	2.7	2.0	2.0	2.7	2.4
JETTY (PPG-FL 106)	5.0	21.7	16.7	17.0	2.3	2.0	2.7	3.0	2.3	2.7	2.4
RAD-FC44	6.3	31.7	29.3	16.0	2.7	2.3	3.0	2.5	2.3	2.0	2.4
RAD-FR47	5.7	41.7	8.3	14.3	3.7	2.0	2.7	2.0	2.0	2.3	2.4
CARDINAL II (PPG-FRR 111)	5.7	36.7	30.0	8.7	2.7	2.7	2.3	2.5	1.7	2.3	2.3
MINIMUS	4.0	16.7	11.3	4.3	3.3	1.7	2.3	2.0	1.7	2.3	2.3
MNHD-14	4.7	26.7	13.3	17.7	3.0	1.7	2.7	3.0	2.0	2.3	2.3
PST-4DR4	5.3	33.3	22.7	8.7	2.7	2.0	2.3	2.5	2.0	2.7	2.3
PST-4ED4	5.0	20.0	10.0	6.7	3.7	2.3	2.3	1.7	1.7	2.0	2.3
SWORD	5.0	20.0	10.0	10.0	3.0	1.3	2.3	2.0	2.7	2.7	2.3
DLFPS-FL/3060	4.7	16.7	8.3	7.7	2.7	1.7	2.7	1.7	2.3	2.3	2.2
BEACON	4.3	25.0	7.0	5.3	2.7	1.7	2.3	2.5	1.7	2.3	2.1
DLFPS-FRR/3069	5.3	20.0	14.0	4.7	2.3	1.7	2.0	2.0	2.3	2.0	2.0
GLADIATOR (TH456)	4.3	13.3	8.7	5.3	2.3	1.3	2.0	2.5	1.7	2.0	1.9
SEABREEZE GT	5.3	21.7	21.7	5.0	3.0	1.7	2.3	1.3	1.3	1.7	1.9
BARPEARL (BAR FRT 5002)	4.0	26.7	16.7	5.3	2.0	1.3	2.3	2.0	1.3	1.7	1.8
DLFPS-FL/3066	4.3	16.7	6.0	4.0	2.0	1.7	2.0	1.7	1.0	2.0	1.7
RESOLUTE (7H7)	5.0	23.3	7.0	5.3	2.3	1.3	2.0	2.0	1.3	1.7	1.7
PST-4BND	2.7	10.0	3.7	3.7	2.3	1.0	2.0	1.5	1.3	1.7	1.6
SANDRINE (BAR 6FR 126)	4.7	13.3	6.0	4.7	2.3	1.3	2.0	1.5	1.0	1.3	1.6
BEUDIN	4.3	8.3	3.7	2.7	2.3	1.3	1.7	1.0	1.0	1.3	1.4
LSD VALUE	1.2	25.3	20.4	19.6	1.4	1.3	1.3	1.2	1.4	1.4	0.9
C.V. (%)	13.2	40.9	46.8	66.1	25.3	33.2	26.5	23.3	35.4	29.9	20.6

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 4B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                            GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT STORRS, CT   1/
                                                    2019 DATA

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

| | SPRING | PERCENT GROUND COVER | | | QUALITY RATINGS | | | | | | |
NAME	GREENUP	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RADAR	7.3	83.3	76.7	76.7	6.0	5.0	5.3	5.5	5.0	5.3	5.3
BAR VV-VP3-CT	6.7	78.3	66.7	70.0	5.3	3.7	4.7	5.0	4.7	5.0	4.7
BOLSTER (C14-OS3)	6.3	66.7	55.0	33.3	4.7	4.3	4.0	4.0	4.3	4.7	4.3
LEEWARD (DLFPS-FRC/3057)	6.3	76.7	50.0	48.3	4.3	4.3	4.3	5.0	4.0	4.0	4.3
MOMENTUM (PPG-FRC 114)	6.7	66.7	66.7	33.3	4.7	4.0	4.0	3.5	3.7	4.0	4.0
CASCADE	6.0	46.7	53.3	30.0	5.0	3.0	3.7	3.3	4.0	4.3	3.9
DLF-FRC 3338	6.7	45.0	53.3	34.3	5.0	4.0	4.0	3.5	3.0	3.3	3.8
SPINDRIFT (DLFPS-FRC/3060)	6.7	63.3	53.3	30.0	5.0	3.3	4.0	3.0	3.0	3.3	3.6
COMPASS II (PPG-FRC 113)	6.7	65.0	55.0	30.7	3.7	3.7	3.3	4.0	2.7	3.0	3.3
CASTLE (RAD-FC32)	5.7	28.3	33.3	18.7	3.0	2.7	3.0	2.5	2.0	3.0	2.6
RAD-FC44	6.3	31.7	29.3	16.0	2.7	2.3	3.0	2.5	2.3	2.0	2.4
SANDRINE (BAR 6FR 126)	4.7	13.3	6.0	4.7	2.3	1.3	2.0	1.5	1.0	1.3	1.6
LSD VALUE	1.3	28.5	22.6	31.1	1.6	2.1	2.0	1.4	1.6	1.6	1.1
C.V. (%)	10.7	30.0	26.8	49.0	21.2	30.7	25.9	18.9	27.7	25.5	18.0

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

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

TABLE 4C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                            GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT STORRS, CT   1/
                                                    2019 DATA

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

| | SPRING | PERCENT GROUND COVER | | | QUALITY RATINGS | | | | | | |
NAME	GREENUP	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
7C34	5.7	78.3	51.7	43.3	4.7	3.3	3.7	3.5	4.0	3.7	3.8
MARVEL	5.7	53.3	38.3	20.0	4.0	2.7	3.0	4.0	3.0	3.3	3.2
RAD-FR33R	5.7	51.7	26.7	14.0	3.3	2.7	3.3	3.0	2.7	2.7	2.9
NAVIGATOR II	5.3	38.3	30.0	11.7	3.3	3.3	2.7	3.0	2.3	2.3	2.8
PST-4BEN	5.7	43.3	25.0	21.7	3.3	1.7	2.7	3.0	2.7	3.0	2.7
DLF-FRR 6162	5.7	43.3	26.7	7.3	3.3	2.3	3.0	2.0	2.3	2.7	2.6
KENT	5.3	40.0	21.7	7.7	3.3	2.0	3.0	2.0	2.0	2.3	2.5
PST-4RUE	5.7	41.7	13.7	22.0	3.3	2.0	2.3	3.0	2.0	2.7	2.5
BOREAL	5.7	20.0	27.7	7.0	3.3	2.3	3.0	2.0	1.3	2.3	2.4
DLFPS-FRR/3068	5.3	33.3	13.3	7.0	3.0	2.3	2.7	2.0	2.0	2.7	2.4
RAD-FR47	5.7	41.7	8.3	14.3	3.7	2.0	2.7	2.0	2.0	2.3	2.4
CARDINAL II (PPG-FRR 111)	5.7	36.7	30.0	8.7	2.7	2.7	2.3	2.5	1.7	2.3	2.3
PST-4DR4	5.3	33.3	22.7	8.7	2.7	2.0	2.3	2.5	2.0	2.7	2.3
PST-4ED4	5.0	20.0	10.0	6.7	3.7	2.3	2.3	1.7	1.7	2.0	2.3
DLFPS-FRR/3069	5.3	20.0	14.0	4.7	2.3	1.7	2.0	2.0	2.3	2.0	2.0
LSD VALUE	2.4	36.5	31.6	13.2	2.2	1.3	1.6	1.8	1.3	1.7	0.9
C.V. (%)	12.4	43.8	59.7	56.8	25.9	25.5	23.4	27.3	29.8	25.9	17.4

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 4D.　　　　　　MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
　　　　　　　　　　GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT STORRS, CT　1/
　　　　　　　　　　　　　　　　2019 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER			QUALITY RATINGS						
		SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
QUATRO	5.0	60.0	41.7	36.7	3.3	3.0	3.7	4.0	3.7	4.3	3.7
JETTY (PPG-FL 106)	5.0	21.7	16.7	17.0	2.3	2.0	2.7	3.0	2.3	2.7	2.4
MINIMUS	4.0	16.7	11.3	4.3	3.3	1.7	2.3	2.0	1.7	2.3	2.3
MNHD-14	4.7	26.7	13.3	17.7	3.0	1.7	2.7	3.0	2.0	2.3	2.3
SWORD	5.0	20.0	10.0	10.0	3.0	1.3	2.3	2.0	2.7	2.7	2.3
DLFPS-FL/3060	4.7	16.7	8.3	7.7	2.7	1.7	2.7	1.7	2.3	2.3	2.2
BEACON	4.3	25.0	7.0	5.3	2.7	1.7	2.3	2.5	1.7	2.3	2.1
GLADIATOR (TH456)	4.3	13.3	8.7	5.3	2.3	1.3	2.0	2.5	1.7	2.0	1.9
DLFPS-FL/3066	4.3	16.7	6.0	4.0	2.0	1.7	2.0	1.7	1.0	2.0	1.7
RESOLUTE (7H7)	5.0	23.3	7.0	5.3	2.3	1.3	2.0	2.0	1.3	1.7	1.7
PST-4BND	2.7	10.0	3.7	3.7	2.3	1.0	2.0	1.5	1.3	1.7	1.6
LSD VALUE	1.6	17.8	14.2	24.5	2.2	1.2	1.7	1.4	2.5	1.6	1.3
C.V. (%)	17.3	44.8	66.4	108.7	31.0	33.8	29.8	26.8	53.6	33.2	27.9

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 4E.　　　　　　MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
　　　　　　　　　　GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT STORRS, CT　1/
　　　　　　　　　　　　　　　　2019 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER			QUALITY RATINGS						
		SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
SEAMIST (PPG-FRT 101)	6.7	58.3	48.3	26.7	3.7	3.7	3.3	3.5	2.7	3.7	3.4
SEABREEZE GT	5.3	21.7	21.7	5.0	3.0	1.7	2.3	1.3	1.3	1.7	1.9
BARPEARL (BAR FRT 5002)	4.0	26.7	16.7	5.3	2.0	1.3	2.3	2.0	1.3	1.7	1.8
BEUDIN	4.3	8.3	3.7	2.7	2.3	1.3	1.7	1.0	1.0	1.3	1.4
LSD VALUE	1.4	30.7	31.6	18.5	1.5	1.7	1.2	1.1	1.2	2.4	1.0
C.V. (%)	13.5	51.3	66.3	88.5	25.0	41.7	23.9	25.9	34.9	53.7	22.8

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 5A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2019 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER SPRING	SUMMER	FALL	DOLLAR SPOT	MAY	JUN	QUALITY RATINGS JUL	AUG	OCT	MEAN
BOLSTER (C14-OS3)	7.3	99	99.0	99.0	9.0	6.7	7.7	5.7	6.0	6.7	6.5
RESOLUTE (7H7)	7.3	99	99.0	99.0	9.0	6.7	7.0	6.3	5.7	6.7	6.5
MOMENTUM (PPG-FRC 114)	7.7	99	99.0	99.0	9.0	6.3	7.3	6.0	5.7	6.7	6.4
BAR VV-VP3-CT	7.7	99	99.0	97.7	8.3	6.3	7.0	5.7	5.7	6.7	6.3
DLFPS-FL/3060	6.3	99	99.0	99.0	8.0	6.7	7.0	6.0	5.7	6.0	6.3
DLFPS-FL/3066	6.7	99	99.0	99.0	9.0	6.3	7.0	6.3	5.7	6.3	6.3
JETTY (PPG-FL 106)	7.3	99	99.0	96.3	9.0	7.0	7.3	5.3	5.3	6.3	6.3
LEEWARD (DLFPS-FRC/3057)	7.3	99	99.0	99.0	9.0	7.0	7.3	5.0	5.3	6.3	6.2
COMPASS II (PPG-FRC 113)	7.0	99	99.0	99.0	9.0	5.7	7.3	5.0	6.0	6.3	6.1
DLF-FRC 3338	7.3	99	99.0	99.0	9.0	6.3	7.0	5.7	5.7	6.0	6.1
PST-4ED4	7.3	99	97.7	99.0	9.0	6.0	6.3	5.7	6.0	6.3	6.1
QUATRO	7.0	99	99.0	97.7	9.0	6.7	7.0	5.7	5.3	5.7	6.1
SEAMIST (PPG-FRT 101)	6.0	99	99.0	97.7	9.0	5.7	7.0	6.0	5.7	6.3	6.1
SANDRINE (BAR 6FR 126)	6.0	99	99.0	99.0	8.3	5.7	7.0	5.7	6.3	5.3	6.0
7C34	6.7	99	97.7	94.7	6.7	6.0	6.0	5.7	5.7	6.0	5.9
BEACON	6.0	99	99.0	97.7	8.0	6.3	6.3	5.7	5.3	5.7	5.9
GLADIATOR (TH456)	6.3	99	94.7	97.7	9.0	6.7	6.0	5.0	5.3	6.3	5.9
MNHD-14	6.3	99	99.0	96.3	8.7	6.3	6.7	5.3	5.3	5.7	5.9
RADAR	7.7	99	99.0	99.0	9.0	6.0	7.0	4.7	5.3	6.7	5.9
SPINDRIFT (DLFPS-FRC/3060)	6.7	99	99.0	94.7	7.7	6.0	7.0	5.3	5.0	5.7	5.8
SWORD	6.3	99	96.3	97.7	8.7	6.3	6.7	5.3	5.0	5.7	5.8
BARPEARL (BAR FRT 5002)	6.0	99	99.0	97.7	7.7	5.3	6.7	5.3	5.3	6.0	5.7
MINIMUS	6.0	99	97.7	97.7	8.0	5.7	6.7	5.7	5.0	5.7	5.7
RAD-FC44	8.0	99	97.7	97.7	9.0	5.7	6.7	5.3	5.0	6.0	5.7
CASTLE (RAD-FC32)	7.7	99	99.0	96.3	9.0	5.7	6.7	5.0	5.3	5.3	5.6
BEUDIN	6.3	99	97.7	73.0	4.0	5.7	6.3	5.3	5.3	5.0	5.5
CARDINAL II (PPG-FRR 111)	7.0	99	96.3	94.7	8.3	5.7	5.7	5.3	5.7	5.3	5.5
DLF-FRR 6162	6.7	99	97.7	96.3	9.0	5.7	6.3	5.3	5.0	5.3	5.5
PST-4RUE	7.0	99	96.3	82.7	8.3	5.7	6.3	5.0	5.7	4.7	5.5
SEABREEZE GT	6.0	99	97.7	83.3	4.3	5.7	6.3	5.3	5.3	5.0	5.5
PST-4BND	6.7	99	97.7	99.0	8.3	5.7	6.3	4.7	5.0	5.0	5.3
MARVEL	6.7	99	95.0	76.7	3.0	5.0	6.0	5.3	5.0	4.7	5.2
CASCADE	6.0	99	95.0	96.3	8.0	5.0	6.3	4.3	5.0	4.7	5.1
DLFPS-FRR/3068	6.3	99	95.0	76.7	2.7	5.7	6.0	4.7	5.0	4.0	5.1
NAVIGATOR II	7.0	99	95.0	70.0	3.0	5.3	6.0	4.7	5.3	4.3	5.1
PST-4DR4	6.7	99	96.3	86.7	3.3	5.3	5.7	5.0	5.3	4.0	5.1
RAD-FR33R	7.3	99	95.0	90.0	4.7	5.3	5.7	4.7	5.0	4.7	5.1
KENT	6.3	99	95.0	80.0	2.3	4.7	5.7	5.3	5.7	3.7	5.0
PST-4BEN	7.0	99	96.3	96.3	8.7	5.0	5.3	4.3	5.0	5.3	5.0
RAD-FR47	6.7	99	95.0	83.3	2.7	5.0	5.7	5.0	5.0	4.3	5.0
DLFPS-FRR/3069	6.3	99	95.0	80.0	2.3	4.7	5.0	4.7	4.7	4.3	4.7
BOREAL	6.3	99	91.7	53.3	1.7	4.3	4.3	3.7	4.3	2.7	3.9
LSD VALUE	0.8	0	2.5	14.0	1.8	0.9	0.8	3.0	1.2	1.2	0.7
C.V. (%)	7.2	0	1.5	9.3	16.6	9.5	8.1	17.4	9.6	13.3	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.

TABLE 5B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2019 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER SPRING	SUMMER	FALL	DOLLAR SPOT	MAY	JUN	QUALITY RATINGS JUL	AUG	OCT	MEAN
BOLSTER (C14-OS3)	7.3	99	99.0	99.0	9.0	6.7	7.7	5.7	6.0	6.7	6.5
MOMENTUM (PPG-FRC 114)	7.7	99	99.0	99.0	9.0	6.3	7.3	6.0	5.7	6.7	6.4
BAR VV-VP3-CT	7.7	99	99.0	97.7	8.3	6.3	7.0	5.7	5.7	6.7	6.3
LEEWARD (DLFPS-FRC/3057)	7.3	99	99.0	99.0	9.0	7.0	7.3	5.0	5.3	6.3	6.2
COMPASS II (PPG-FRC 113)	7.0	99	99.0	99.0	9.0	5.7	7.3	5.0	6.0	6.3	6.1
DLF-FRC 3338	7.3	99	99.0	99.0	9.0	6.3	7.0	5.7	5.7	6.0	6.1
SANDRINE (BAR 6FR 126)	6.0	99	99.0	99.0	8.3	5.7	7.0	5.7	6.3	5.3	6.0
RADAR	7.7	99	99.0	99.0	9.0	6.0	7.0	4.7	5.3	6.7	5.9
SPINDRIFT (DLFPS-FRC/3060)	6.7	99	99.0	94.7	7.7	6.0	7.0	5.3	5.0	5.7	5.8
RAD-FC44	8.0	99	97.7	97.7	9.0	5.7	6.7	5.3	5.0	6.0	5.7
CASTLE (RAD-FC32)	7.7	99	99.0	96.3	9.0	5.7	6.7	5.0	5.3	5.3	5.6
CASCADE	6.0	99	95.0	96.3	8.0	5.0	6.3	4.3	5.0	4.7	5.1
LSD VALUE	0.7	0	1.1	4.3	1.3	1.0	0.8	3.1	1.2	1.0	0.9
C.V. (%)	5.9	0	0.7	1.9	6.8	8.9	5.8	19.9	9.7	9.4	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 5C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2019 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER SPRING	SUMMER	FALL	DOLLAR SPOT	MAY	JUN	QUALITY RATINGS JUL	AUG	OCT	MEAN
PST-4ED4	7.3	99	97.7	99.0	9.0	6.0	6.3	5.7	6.0	6.3	6.1
7C34	6.7	99	97.7	94.7	6.7	6.0	6.0	5.7	5.7	6.0	5.9
CARDINAL II (PPG-FRR 111)	7.0	99	96.3	94.7	8.3	5.7	5.7	5.3	5.7	5.3	5.5
DLF-FRR 6162	6.7	99	97.7	96.3	9.0	5.7	6.3	5.3	5.0	5.3	5.5
PST-4RUE	7.0	99	96.3	82.7	8.3	5.7	6.3	5.0	5.7	4.7	5.5
MARVEL	6.7	99	95.0	76.7	3.0	5.0	6.0	5.3	5.0	4.7	5.2
DLFPS-FRR/3068	6.3	99	95.0	76.7	2.7	5.7	6.0	4.7	5.0	4.0	5.1
NAVIGATOR II	7.0	99	95.0	70.0	3.0	5.3	6.0	4.7	5.3	4.3	5.1
PST-4DR4	6.7	99	96.3	86.7	3.3	5.3	5.7	5.0	5.0	4.0	5.1
RAD-FR33R	7.3	99	95.0	90.0	4.7	5.3	5.7	4.7	5.0	4.7	5.1
KENT	6.3	99	95.0	80.0	2.3	4.7	5.7	5.3	5.7	3.7	5.0
PST-4BEN	7.0	99	96.3	96.3	8.7	5.0	5.3	4.3	5.0	5.3	5.0
RAD-FR47	6.7	99	95.0	83.3	2.7	5.0	5.7	5.0	5.0	4.3	5.0
DLFPS-FRR/3069	6.3	99	95.0	80.0	2.3	4.7	5.0	4.7	4.7	4.3	4.7
BOREAL	6.3	99	91.7	53.3	1.7	4.3	4.3	3.7	4.3	2.7	3.9
LSD VALUE	1.2	0	3.6	24.2	2.3	1.1	1.1	2.0	0.8	1.6	0.8
C.V. (%)	7.4	0	1.8	14.9	28.9	10.4	9.6	15.8	8.3	19.1	8.9

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

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

TABLE 5D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2019 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER			DOLLAR SPOT	QUALITY RATINGS					
		SPRING	SUMMER	FALL		MAY	JUN	JUL	AUG	OCT	MEAN
RESOLUTE (7H7)	7.3	99	99.0	99.0	9.0	6.7	7.0	6.3	5.7	6.7	6.5
DLFPS-FL/3060	6.3	99	99.0	99.0	8.0	6.7	7.0	6.0	5.7	6.0	6.3
DLFPS-FL/3066	6.7	99	99.0	99.0	9.0	6.3	7.0	6.3	5.7	6.3	6.3
JETTY (PPG-FL 106)	7.3	99	99.0	96.3	9.0	7.0	7.3	5.3	5.3	6.3	6.3
QUATRO	7.0	99	99.0	97.7	9.0	6.7	7.0	5.7	5.3	5.7	6.1
BEACON	6.0	99	99.0	97.7	8.0	6.3	6.3	5.7	5.3	5.7	5.9
GLADIATOR (TH456)	6.3	99	94.7	97.7	9.0	6.7	6.0	5.0	5.3	6.3	5.9
MNHD-14	6.3	99	99.0	96.3	8.7	6.3	6.7	5.3	5.3	5.7	5.9
SWORD	6.3	99	96.3	97.7	8.7	6.3	6.7	5.3	5.0	5.7	5.8
MINIMUS	6.0	99	97.7	97.7	8.0	5.7	6.7	5.7	5.0	5.7	5.7
PST-4BND	6.7	99	97.7	99.0	8.3	5.7	6.3	4.7	5.0	5.0	5.3
LSD VALUE	1.3	0	4.3	5.2	1.4	1.1	1.5	2.9	1.4	1.4	1.0
C.V. (%)	8.9	0	1.9	1.9	6.9	7.9	9.1	18.5	9.5	10.3	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 5E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2019 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER			DOLLAR SPOT	QUALITY RATINGS					
		SPRING	SUMMER	FALL		MAY	JUN	JUL	AUG	OCT	MEAN
SEAMIST (PPG-FRT 101)	6.0	99	99.0	97.7	9.0	5.7	7.0	6.0	5.7	6.3	6.1
BARPEARL (BAR FRT 5002)	6.0	99	99.0	97.7	7.7	5.3	6.7	5.3	5.3	6.0	5.7
BEUDIN	6.3	99	97.7	73.0	4.0	5.7	6.3	5.3	5.3	5.0	5.5
SEABREEZE GT	6.0	99	97.7	83.3	4.3	5.7	6.3	5.3	5.3	5.0	5.5
LSD VALUE	0.7	0	3.0	24.6	4.4	1.2	1.3	1.8	1.5	1.8	1.2
C.V. (%)	4.7	0	1.4	13.0	32.9	9.0	8.4	13.9	11.9	14.6	8.8

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

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

TABLE 6A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                   GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                    2019 DATA

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

| | GENETIC | PERCENT GROUND COVER | | | QUALITY RATINGS | | | | | | |
NAME	COLOR	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
LEEWARD (DLFPS-FRC/3057)	5.3	94.0	84.0	97.0	7.3	6.7	7.0	6.3	6.7	8.3	7.1
BOLSTER (C14-OS3)	5.3	91.3	81.0	89.7	6.3	6.0	7.3	6.3	7.3	7.7	6.8
RADAR	6.0	92.0	90.7	98.0	6.7	6.7	6.7	7.0	6.0	7.7	6.8
SEAMIST (PPG-FRT 101)	5.3	82.0	86.7	97.0	6.3	7.0	6.7	7.0	6.0	7.7	6.8
BARPEARL (BAR FRT 5002)	4.0	94.0	89.7	96.0	6.3	6.0	7.0	7.0	6.0	7.0	6.6
SANDRINE (BAR 6FR 126)	5.0	91.3	73.7	92.3	6.3	5.7	7.0	6.0	7.0	7.3	6.6
JETTY (PPG-FL 106)	7.0	94.0	88.3	95.3	6.0	6.0	7.3	6.3	6.7	6.7	6.5
BAR VV-VP3-CT	5.7	87.3	84.3	92.7	6.0	5.7	6.7	6.7	6.7	6.7	6.4
RESOLUTE (7H7)	7.3	96.7	93.0	94.3	6.3	6.3	6.0	6.0	6.7	6.7	6.3
COMPASS II (PPG-FRC 113)	5.7	93.0	92.7	91.7	6.0	6.0	6.3	5.3	6.0	7.3	6.2
SPINDRIFT (DLFPS-FRC/3060)	6.0	84.7	79.7	96.0	5.3	6.0	6.7	6.0	6.0	7.0	6.2
MOMENTUM (PPG-FRC 114)	7.0	91.0	83.3	97.0	6.0	6.3	6.0	5.3	6.0	7.3	6.2
RAD-FC44	7.0	90.0	85.0	95.7	5.7	6.0	6.3	6.3	5.7	7.0	6.2
DLF-FRC 3338	5.3	89.3	90.0	96.7	7.0	6.3	6.0	5.3	5.0	7.0	6.1
GLADIATOR (TH456)	5.3	92.3	93.0	90.3	5.3	5.7	5.7	6.0	6.3	7.0	6.0
DLFPS-FL/3060	6.3	96.7	90.0	94.0	5.7	6.0	6.0	5.7	5.7	6.7	5.9
DLFPS-FL/3066	7.0	91.3	85.3	90.0	5.3	5.0	5.7	6.0	6.3	6.3	5.8
MNHD-14	6.7	92.7	88.3	93.0	5.3	5.7	5.7	5.7	6.3	6.3	5.8
BEACON	5.0	89.3	89.0	90.7	5.3	5.0	6.3	6.0	5.7	6.0	5.7
BEUDIN	3.7	92.3	88.0	94.0	6.0	5.7	5.3	4.7	4.7	6.0	5.4
CASTLE (RAD-FC32)	7.0	84.3	84.3	89.7	6.0	6.0	5.0	4.7	4.7	6.0	5.4
CASCADE	5.0	90.7	78.0	96.3	5.0	4.0	5.7	5.3	5.3	5.7	5.2
SWORD	6.3	81.0	78.3	86.0	5.0	5.0	5.3	4.3	5.0	5.7	5.1
SEABREEZE GT	4.3	89.0	86.3	86.0	5.3	5.7	5.0	4.7	3.3	6.0	5.0
QUATRO	6.3	93.0	83.7	89.0	5.3	4.3	5.0	5.0	4.7	5.3	4.9
PST-4BND	6.7	91.3	91.3	95.0	4.0	4.3	5.0	5.0	5.0	5.7	4.8
MINIMUS	6.3	85.3	84.3	90.3	4.0	4.7	5.7	4.3	4.0	5.7	4.7
7C34	6.0	85.0	84.3	93.3	4.7	4.7	5.0	4.3	3.7	5.0	4.5
CARDINAL II (PPG-FRR 111)	6.0	88.0	80.7	90.7	4.3	4.0	5.0	4.0	3.3	4.0	4.1
PST-4DR4	6.3	81.0	86.0	86.3	5.3	4.3	3.7	3.3	3.0	4.7	4.1
DLFPS-FRR/3068	6.0	83.7	86.3	85.0	4.7	4.7	4.3	4.0	2.3	4.0	4.0
NAVIGATOR II	6.3	81.3	80.3	87.0	3.7	4.7	4.3	3.0	2.7	5.7	4.0
DLF-FRR 6162	5.7	89.7	79.0	95.7	5.0	4.3	4.0	3.3	2.7	4.3	3.9
PST-4BEN	6.3	82.0	84.0	90.7	3.7	4.3	4.3	3.0	3.0	4.7	3.8
DLFPS-FRR/3069	5.7	89.7	76.0	94.3	3.7	4.0	4.0	3.7	3.3	3.3	3.7
KENT	6.3	83.7	79.0	92.7	4.3	4.3	3.3	3.0	2.7	4.7	3.7
RAD-FR47	7.0	82.0	74.7	86.3	4.3	4.3	4.3	2.3	2.3	4.3	3.7
BOREAL	4.7	87.0	89.3	92.3	4.0	3.0	4.3	3.7	2.7	3.7	3.6
MARVEL	5.7	90.7	88.0	87.7	4.7	4.0	4.3	2.7	2.3	3.7	3.6
RAD-FR33R	7.3	73.7	86.3	94.7	3.0	3.0	3.3	2.7	2.7	4.7	3.2
PST-4ED4	6.0	79.3	83.7	85.0	3.0	3.0	3.3	3.3	2.0	2.7	2.9
PST-4RUE	7.0	79.0	77.3	82.3	3.7	3.0	2.0	2.3	1.7	2.0	2.4
LSD VALUE	1.0	19.7	31.1	24.3	1.8	1.6	1.3	1.8	1.5	1.3	1.1
C.V. (%)	10.9	8.4	10.4	7.5	19.9	18.9	15.9	23.2	21.2	15.3	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.

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

NAME	PERCENT CRABGRASS	PERCENT WEED COVERAGE			PERCENT BARE SPOT COVERAGE		
		SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
LEEWARD (DLFPS-FRC/3057)	6.3	0.0	11.7	3.0	4.0	4.3	0.0
BOLSTER (C14-OS3)	8.0	1.3	14.0	10.3	7.7	4.7	0.0
RADAR	4.0	1.3	4.7	1.3	6.3	4.7	0.0
SEAMIST (PPG-FRT 101)	6.0	0.3	9.3	2.3	5.7	4.7	0.7
BARPEARL (BAR FRT 5002)	5.3	1.3	8.0	4.0	4.7	2.3	0.0
SANDRINE (BAR 6FR 126)	8.3	3.3	23.7	7.7	5.7	3.0	0.0
JETTY (PPG-FL 106)	2.3	3.0	7.0	4.0	2.7	4.3	0.3
BAR VV-VP3-CT	5.7	1.3	12.3	7.0	11.0	3.3	0.3
RESOLUTE (7H7)	2.7	0.3	3.7	4.3	2.7	3.7	0.7
COMPASS II (PPG-FRC 113)	3.7	1.0	5.0	6.7	6.0	2.3	1.7
SPINDRIFT (DLFPS-FRC/3060)	8.7	0.3	16.3	2.3	14.7	4.7	0.3
MOMENTUM (PPG-FRC 114)	12.0	0.3	14.3	3.0	8.7	2.7	0.0
RAD-FC44	7.3	0.0	9.3	3.7	10.0	5.7	0.3
DLF-FRC 3338	5.7	2.7	8.0	3.3	8.0	2.0	0.0
GLADIATOR (TH456)	1.3	3.7	4.7	8.7	4.0	2.7	0.7
DLFPS-FL/3060	2.0	2.3	7.7	6.0	1.3	2.3	0.0
DLFPS-FL/3066	6.0	4.3	11.7	9.3	4.3	3.3	1.0
MNHD-14	1.3	4.7	7.7	6.0	2.7	4.3	0.7
BEACON	3.7	8.3	9.7	9.7	2.3	1.3	0.0
BEUDIN	4.0	1.3	8.3	3.7	6.0	3.3	2.3
CASTLE (RAD-FC32)	8.3	8.3	12.0	9.7	7.3	4.0	0.3
CASCADE	14.7	0.3	19.0	2.0	8.7	3.3	1.3
SWORD	12.7	11.7	19.3	12.7	7.7	2.0	1.0
SEABREEZE GT	5.0	5.0	10.0	13.7	6.0	3.3	0.3
QUATRO	9.3	4.7	14.3	9.3	2.3	1.3	1.3
PST-4BND	1.0	3.7	4.0	4.7	5.3	4.7	0.3
MINIMUS	8.0	7.7	11.3	8.7	7.3	4.0	0.7
7C34	6.7	0.0	11.0	5.0	15.0	4.7	1.7
CARDINAL II (PPG-FRR 111)	7.7	3.7	13.0	5.3	8.0	6.3	4.3
PST-4DR4	3.3	3.0	6.0	10.3	16.3	8.0	3.7
DLFPS-FRR/3068	6.7	4.7	8.3	6.7	11.7	5.3	6.7
NAVIGATOR II	8.0	8.0	16.3	10.7	11.3	3.3	2.0
DLF-FRR 6162	7.3	0.0	11.7	1.3	10.7	9.0	3.0
PST-4BEN	11.0	6.3	13.0	5.7	11.7	3.3	3.7
DLFPS-FRR/3069	10.7	0.3	17.7	2.7	9.7	6.3	2.7
KENT	9.0	3.3	13.0	4.0	13.0	8.3	3.3
RAD-FR47	10.7	2.7	17.0	9.7	15.3	8.0	4.3
BOREAL	4.7	2.0	6.7	5.7	11.0	4.0	2.0
MARVEL	4.0	0.0	5.3	4.7	9.3	40.0	7.7
RAD-FR33R	2.0	2.3	7.7	2.7	24.0	6.3	2.7
PST-4ED4	8.0	6.0	13.3	10.7	15.0	3.7	4.3
PST-4RUE	12.0	11.3	15.3	11.0	9.7	25.7	6.3
LSD VALUE	24.2	14.7	27.4	26.0	12.9	36.4	3.2
C.V. (%)	95.9	148.9	72.2	102.9	70.0	196.7	106.4

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 6B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                                    GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                        2019 DATA

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

	GENETIC	PERCENT GROUND COVER			QUALITY RATINGS						
NAME	COLOR	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
LEEWARD (DLFPS-FRC/3057)	5.3	94.0	84.0	97.0	7.3	6.7	7.0	6.3	6.7	8.3	7.1
BOLSTER (C14-OS3)	5.3	91.3	81.0	89.7	6.3	6.0	7.3	6.3	7.3	7.7	6.8
RADAR	6.0	92.0	90.7	98.0	6.7	6.7	6.7	7.0	6.0	7.7	6.8
SANDRINE (BAR 6FR 126)	5.0	91.3	73.7	92.3	6.3	5.7	7.0	6.0	7.0	7.3	6.6
BAR VV-VP3-CT	5.7	87.3	84.3	92.7	6.0	5.7	6.7	6.7	6.7	6.7	6.4
COMPASS II (PPG-FRC 113)	5.7	93.0	92.7	91.7	6.0	6.0	6.3	5.3	6.0	7.3	6.2
SPINDRIFT (DLFPS-FRC/3060)	6.0	84.7	79.7	96.0	5.3	6.0	6.7	6.0	6.0	7.0	6.2
MOMENTUM (PPG-FRC 114)	7.0	91.0	83.3	97.0	6.0	6.3	6.0	5.3	6.0	7.3	6.2
RAD-FC44	7.0	90.0	85.0	95.7	5.7	6.0	6.3	6.3	5.7	7.0	6.2
DLF-FRC 3338	5.3	89.3	90.0	96.7	7.0	6.3	6.0	5.3	5.0	7.0	6.1
CASTLE (RAD-FC32)	7.0	84.3	84.3	89.7	6.0	6.0	5.0	4.7	4.7	6.0	5.4
CASCADE	5.0	90.7	78.0	96.3	5.0	4.0	5.7	5.3	5.3	5.7	5.2
LSD VALUE	1.1	25.4	21.8	18.7	3.4	2.8	1.6	2.4	1.9	0.9	1.2
C.V. (%)	10.6	8.9	10.3	6.6	20.0	18.3	11.7	17.0	14.9	7.8	9.7

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 6B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                        2019 DATA

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

	PERCENT	PERCENT WEED COVERAGE			PERCENT BARE SPOT COVERAGE		
NAME	CRABGRASS	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
LEEWARD (DLFPS-FRC/3057)	6.3	0.0	11.7	3.0	4.0	4.3	0.0
BOLSTER (C14-OS3)	8.0	1.3	14.0	10.3	7.7	4.7	0.0
RADAR	4.0	1.3	4.7	1.3	6.3	4.7	0.0
SANDRINE (BAR 6FR 126)	8.3	3.3	23.7	7.7	5.7	3.0	0.0
BAR VV-VP3-CT	5.7	1.3	12.3	7.0	11.0	3.3	0.3
COMPASS II (PPG-FRC 113)	3.7	1.0	5.0	6.7	6.0	2.3	1.7
SPINDRIFT (DLFPS-FRC/3060)	8.7	0.3	16.3	2.3	14.7	4.7	0.3
MOMENTUM (PPG-FRC 114)	12.0	0.3	14.3	3.0	8.7	2.7	0.0
RAD-FC44	7.3	0.0	9.3	3.7	10.0	5.7	0.3
DLF-FRC 3338	5.7	2.7	8.0	3.3	8.0	2.0	0.0
CASTLE (RAD-FC32)	8.3	8.3	12.0	9.7	7.3	4.0	0.3
CASCADE	14.7	0.3	19.0	2.0	8.7	3.3	1.3
LSD VALUE	16.0	9.5	18.9	15.9	22.2	8.7	1.3
C.V. (%)	75.3	218.9	62.8	115.6	88.5	76.3	176.6

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                         GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                              2019 DATA

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

| | GENETIC | PERCENT GROUND COVER | | | QUALITY RATINGS | | | | | | |
NAME	COLOR	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
7C34	6.0	85.0	84.3	93.3	4.7	4.7	5.0	4.3	3.7	5.0	4.5
CARDINAL II (PPG-FRR 111)	6.0	88.0	80.7	90.7	4.3	4.0	5.0	4.0	3.3	4.0	4.1
PST-4DR4	6.3	81.0	86.0	86.3	5.3	4.3	3.7	3.3	3.0	4.7	4.1
DLFPS-FRR/3068	6.0	83.7	86.3	85.0	4.7	4.7	4.3	4.0	2.3	4.0	4.0
NAVIGATOR II	6.3	81.3	80.3	87.0	3.7	4.7	4.3	3.0	2.7	5.7	4.0
DLF-FRR 6162	5.7	89.7	79.0	95.7	5.0	4.3	4.0	3.3	2.7	4.3	3.9
PST-4BEN	6.3	82.0	84.0	90.7	3.7	4.3	4.3	3.0	3.0	4.7	3.8
DLFPS-FRR/3069	5.7	89.7	76.0	94.3	3.7	4.0	4.0	3.7	3.3	3.3	3.7
KENT	6.3	83.7	79.0	92.7	4.3	4.3	3.3	3.0	2.7	4.7	3.7
RAD-FR47	7.0	82.0	74.7	86.3	4.3	4.3	4.3	2.3	2.3	4.3	3.7
BOREAL	4.7	87.0	89.3	92.3	4.0	3.0	4.3	3.7	2.7	3.7	3.6
MARVEL	5.7	90.7	88.0	87.7	4.7	4.0	4.3	2.7	2.3	3.7	3.6
RAD-FR33R	7.3	73.7	86.3	94.7	3.0	3.0	3.3	2.7	2.7	4.7	3.2
PST-4ED4	6.0	79.3	83.7	85.0	3.0	3.0	3.3	3.3	2.0	2.7	2.9
PST-4RUE	7.0	79.0	77.3	82.3	3.7	3.0	2.0	2.3	1.7	2.0	2.4
LSD VALUE	1.2	18.7	31.3	24.4	2.2	2.0	2.0	3.7	2.0	2.3	1.8
C.V. (%)	10.3	8.7	12.1	9.1	22.8	21.9	23.3	37.4	29.6	26.3	20.1

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
    (CONT'D)   GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                              2019 DATA

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

| | PERCENT | PERCENT WEED COVERAGE | | | PERCENT BARE SPOT COVERAGE | | |
NAME	CRABGRASS	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
7C34	6.7	0.0	11.0	5.0	15.0	4.7	1.7
CARDINAL II (PPG-FRR 111)	7.7	3.7	13.0	5.3	8.0	6.3	4.3
PST-4DR4	3.3	3.0	6.0	10.3	16.3	8.0	3.7
DLFPS-FRR/3068	6.7	4.7	8.3	6.7	11.7	5.3	6.7
NAVIGATOR II	8.0	8.0	16.3	10.7	11.3	3.3	2.0
DLF-FRR 6162	7.3	0.0	11.7	1.3	10.7	9.0	3.0
PST-4BEN	11.0	6.3	13.0	5.7	11.7	3.3	3.7
DLFPS-FRR/3069	10.7	0.3	17.7	2.7	9.7	6.3	2.7
KENT	9.0	3.3	13.0	4.0	13.0	8.3	3.3
RAD-FR47	10.7	2.7	17.0	9.7	15.3	8.0	4.3
BOREAL	4.7	2.0	6.7	5.7	11.0	4.0	2.0
MARVEL	4.0	0.0	5.3	4.7	9.3	40.0	7.7
RAD-FR33R	2.0	2.3	7.7	2.7	24.0	6.3	2.7
PST-4ED4	8.0	6.0	13.3	10.7	15.0	3.7	4.3
PST-4RUE	12.0	11.3	15.3	11.0	9.7	25.7	6.3
LSD VALUE	22.9	11.9	30.3	23.5	17.7	51.4	7.7
C.V. (%)	94.9	133.6	80.6	115.2	51.2	189.7	74.0

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 6D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                          GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                              2019 DATA

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

NAME	GENETIC COLOR	PERCENT GROUND COVER			QUALITY RATINGS						
		SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
JETTY (PPG-FL 106)	7.0	94.0	88.3	95.3	6.0	6.0	7.3	6.3	6.7	6.7	6.5
RESOLUTE (7H7)	7.3	96.7	93.0	94.3	6.3	6.3	6.0	6.0	6.7	6.7	6.3
GLADIATOR (TH456)	5.3	92.3	93.0	90.3	5.3	5.7	5.7	6.0	6.3	7.0	6.0
DLFPS-FL/3060	6.3	96.7	90.0	94.0	5.7	6.0	6.0	5.7	5.7	6.7	5.9
DLFPS-FL/3066	7.0	91.3	85.3	90.0	5.3	5.0	5.7	6.0	6.3	6.3	5.8
MNHD-14	6.7	92.7	88.3	93.0	5.3	5.7	5.7	5.7	6.3	6.3	5.8
BEACON	5.0	89.3	89.0	90.7	5.3	5.0	6.3	6.0	5.7	6.0	5.7
SWORD	6.3	81.0	78.3	86.0	5.0	5.0	5.3	4.3	5.0	5.7	5.1
QUATRO	6.3	93.0	83.7	89.0	5.3	4.3	5.0	5.0	4.7	5.3	4.9
PST-4BND	6.7	91.3	91.3	95.0	4.0	4.3	5.0	5.0	5.0	5.7	4.8
MINIMUS	6.3	85.3	84.3	90.3	4.0	4.7	5.7	4.3	4.0	5.7	4.7
LSD VALUE	1.3	17.1	19.6	19.2	1.7	2.0	2.2	3.1	2.8	2.6	1.8
C.V. (%)	10.3	7.7	8.6	7.2	15.7	17.1	16.2	21.6	21.5	15.7	14.4

NAME	PERCENT CRABGRASS	PERCENT WEED COVERAGE			PERCENT BARE SPOT COVERAGE		
		SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
JETTY (PPG-FL 106)	2.3	3.0	7.0	4.0	2.7	4.3	0.3
RESOLUTE (7H7)	2.7	0.3	3.7	4.3	2.7	3.7	0.7
GLADIATOR (TH456)	1.3	3.7	4.7	8.7	4.0	2.7	0.7
DLFPS-FL/3060	2.0	2.3	7.7	6.0	1.3	2.3	0.0
DLFPS-FL/3066	6.0	4.3	11.7	9.3	4.3	3.3	1.0
MNHD-14	1.3	4.7	7.7	6.0	2.7	4.3	0.7
BEACON	3.7	8.3	9.7	9.7	2.3	1.3	0.0
SWORD	12.7	11.7	19.3	12.7	7.7	2.0	1.0
QUATRO	9.3	4.7	14.3	9.3	2.3	1.3	1.3
PST-4BND	1.0	3.7	4.0	4.7	5.3	4.7	0.3
MINIMUS	8.0	7.7	11.3	8.7	7.3	4.0	0.7
LSD VALUE	13.5	18.4	14.8	19.4	5.1	5.8	2.1
C.V. (%)	123.0	132.3	69.9	87.1	62.1	70.9	128.1

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 6E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                        GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                              2019 DATA

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

| | GENETIC | PERCENT GROUND COVER | | | QUALITY RATINGS | | | | | | |
NAME	COLOR	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
SEAMIST (PPG-FRT 101)	5.3	82.0	86.7	97.0	6.3	7.0	6.7	7.0	6.0	7.7	6.8
BARPEARL (BAR FRT 5002)	4.0	94.0	89.7	96.0	6.3	6.0	7.0	7.0	6.0	7.0	6.6
BEUDIN	3.7	92.3	88.0	94.0	6.0	5.7	5.3	4.7	4.7	6.0	5.4
SEABREEZE GT	4.3	89.0	86.3	86.0	5.3	5.7	5.0	4.7	3.3	6.0	5.0
LSD VALUE	1.6	13.3	10.1	11.4	2.6	3.1	1.6	1.9	2.4	1.4	1.1
C.V. (%)	17.2	5.1	5.0	5.6	18.6	22.4	12.4	15.9	22.1	9.7	9.2

| | PERCENT | PERCENT WEED COVERAGE | | | PERCENT BARE SPOT COVERAGE | | |
NAME	CRABGRASS	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
SEAMIST (PPG-FRT 101)	6.0	0.3	9.3	2.3	5.7	4.7	0.7
BARPEARL (BAR FRT 5002)	5.3	1.3	8.0	4.0	4.7	2.3	0.0
BEUDIN	4.0	1.3	8.3	3.7	6.0	3.3	2.3
SEABREEZE GT	5.0	5.0	10.0	13.7	6.0	3.3	0.3
LSD VALUE	9.8	5.2	10.4	10.4	12.7	6.0	3.3
C.V. (%)	81.7	118.1	49.6	81.9	96.2	75.1	178.9

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 7A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ   1/
2019 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED (SEPT) | | | | AFTER FALL TRAFFIC WAS COMPLETED (NOVEMBER) | | | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | BRUISING | BRUISING | PERCENT COVER | | FULLNESS OF CANOPY | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
BOLSTER (C14-OS3)	8.7	8.0	91.7	76.7	9.0	5.7	9	5.0	77.7	57.7	90.0	61.7
GLADIATOR (TH456)	5.3	5.0	66.7	60.0	8.7	4.3	9	6.0	77.0	67.7	90.0	58.3
BEACON	8.0	6.5	90.0	70.0	9.0	5.0	9	7.5	73.0	65.5	90.0	57.5
COMPASS II (PPG-FRC 113)	8.3	7.7	83.3	75.0	9.0	4.0	9	6.0	79.3	59.7	85.0	55.0
DLFPS-FL/3066	6.7	5.3	70.0	61.7	9.0	4.0	9	5.3	74.7	67.3	90.0	55.0
SEAMIST (PPG-FRT 101)	9.0	6.0	90.0	70.0	9.0	4.0	9	7.0	75.0	63.0	90.0	55.0
JETTY (PPG-FL 106)	8.3	6.0	86.7	65.0	9.0	4.3	9	6.3	76.3	67.7	91.7	53.3
MNHD-14	8.7	5.7	88.3	75.0	9.0	4.7	9	6.0	71.3	62.0	90.0	53.3
MOMENTUM (PPG-FRC 114)	8.3	7.3	86.7	70.0	8.7	4.3	9	5.0	76.0	47.0	91.7	53.3
RAD-FC44	7.3	4.7	86.7	66.7	9.0	3.7	9	5.7	73.7	60.3	91.7	51.7
CASTLE (RAD-FC32)	8.0	5.5	80.0	62.5	9.0	4.0	9	7.0	75.0	61.0	90.0	50.0
LEEWARD (DLFPS-FRC/3057)	8.7	6.3	90.0	71.7	9.0	4.0	9	5.7	80.3	63.3	90.0	50.0
RADAR	8.5	6.5	87.5	70.0	9.0	5.0	9	5.0	75.5	57.5	90.0	50.0
RESOLUTE (7H7)	4.7	4.3	58.3	58.3	7.7	5.0	9	7.3	77.7	68.0	85.0	50.0
SWORD	7.5	5.0	75.0	60.0	9.0	4.5	9	6.5	76.0	69.5	90.0	50.0
MINIMUS	7.7	4.0	71.7	58.3	9.0	5.3	9	5.7	75.0	62.0	90.0	48.3
SPINDRIFT (DLFPS-FRC/3060)	8.5	7.0	87.5	72.5	9.0	4.5	9	4.5	71.0	49.0	90.0	47.5
PST-4BND	5.0	4.0	60.0	60.0	9.0	3.5	9	6.0	78.0	74.0	90.0	47.5
RAD-FR47	8.0	6.0	85.0	72.5	8.5	2.5	9	4.5	69.0	54.0	90.0	47.5
QUATRO	6.7	4.3	78.3	60.0	8.7	3.7	9	4.3	73.0	62.3	90.0	46.7
DLF-FRC 3338	8.0	6.0	85.0	66.7	9.0	4.7	9	5.3	77.3	56.0	88.3	45.0
7C34	8.7	7.0	86.7	71.7	8.7	4.0	9	4.7	76.3	57.3	90.0	43.3
DLFPS-FRR/3069	7.3	6.7	81.7	73.3	8.7	3.7	9	4.7	74.7	57.3	88.3	43.3
PST-4RUE	8.7	8.0	86.7	76.7	8.7	4.3	9	4.7	77.0	59.0	90.0	43.3
NAVIGATOR II	8.7	6.3	90.0	65.0	9.0	4.0	9	5.0	72.3	58.0	90.0	41.7
BAR VV-VP3-CT	8.0	6.0	85.0	60.0	8.0	4.0	9	4.0	70.0	56.0	90.0	40.0
DLFPS-FRR/3068	9.0	7.5	87.5	72.5	9.0	4.0	9	5.5	73.5	56.5	90.0	40.0
MARVEL	8.3	6.3	78.3	65.0	8.7	3.3	9	4.0	75.7	53.0	91.7	40.0
PST-4BEN	8.7	6.3	85.0	66.7	9.0	3.7	9	4.3	73.7	51.7	90.0	40.0
RAD-FR33R	9.0	6.0	85.0	70.0	9.0	5.0	9	3.0	73.0	50.0	95.0	40.0
BARPEARL (BAR FRT 5002)	5.3	5.0	71.7	56.7	8.3	3.0	9	6.0	82.3	63.3	83.3	36.7
PST-4DR4	8.0	5.7	86.7	68.3	8.3	3.3	9	4.0	76.7	59.7	83.3	36.7
CARDINAL II (PPG-FRR 111)	8.3	6.0	88.3	71.7	8.0	3.7	9	6.0	78.0	61.3	86.7	35.0
DLF-FRR 6162	8.3	5.7	90.0	70.0	8.3	3.7	9	5.3	76.7	53.3	85.0	35.0
SEABREEZE GT	5.0	3.5	67.5	52.5	9.0	4.0	9	5.0	73.0	56.0	85.0	35.0
BOREAL	6.0	4.7	68.3	58.3	8.0	2.0	9	4.3	75.7	56.0	85.0	33.3
DLFPS-FL/3060	5.3	4.0	68.3	55.0	7.0	4.7	9	5.3	62.0	60.3	66.7	33.3
PST-4ED4	7.7	5.3	81.7	63.3	9.0	2.3	9	4.3	73.7	62.7	85.0	33.3
CASCADE	7.3	4.7	85.0	60.0	8.3	2.7	9	4.7	77.0	58.0	88.3	31.7
BEUDIN	4.7	3.3	58.3	53.3	8.0	2.7	9	6.0	76.0	61.0	83.3	28.3
KENT	7.3	5.7	80.0	63.3	8.7	2.3	9	4.7	76.0	59.3	80.0	28.3
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.	.	.	.	.
LSD VALUE	3.2	2.9	24.7	31.5	4.2	4.1	0	2.1	19.4	9.8	41.8	22.5
C.V. (%)	19.2	22.9	13.2	14.7	10.5	32.1	0	18.0	7.0	8.3	10.3	22.2

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 7B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ   1/
2019 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED (SEPT) | | | | AFTER FALL TRAFFIC WAS COMPLETED (NOVEMBER) | | | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | BRUISING | BRUISING | PERCENT COVER | | FULLNESS OF CANOPY | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
BOLSTER (C14-OS3)	8.7	8.0	91.7	76.7	9.0	5.7	9	5.0	77.7	57.7	90.0	61.7
COMPASS II (PPG-FRC 113)	8.3	7.7	83.3	75.0	9.0	4.0	9	6.0	79.3	59.7	85.0	55.0
MOMENTUM (PPG-FRC 114)	8.3	7.3	86.7	70.0	8.7	4.3	9	5.0	76.0	47.0	91.7	53.3
RAD-FC44	7.3	4.7	86.7	66.7	9.0	3.7	9	5.7	73.7	60.3	91.7	51.7
CASTLE (RAD-FC32)	8.0	5.5	80.0	62.5	9.0	4.0	9	7.0	75.0	61.0	90.0	50.0
LEEWARD (DLFPS-FRC/3057)	8.7	6.3	90.0	71.7	9.0	4.0	9	5.7	80.3	63.3	90.0	50.0
RADAR	8.5	6.5	87.5	70.0	9.0	5.0	9	5.0	75.5	57.5	90.0	50.0
SPINDRIFT (DLFPS-FRC/3060)	8.5	7.0	87.5	72.5	9.0	4.5	9	4.5	71.0	49.0	90.0	47.5
DLF-FRC 3338	8.0	6.0	85.0	66.7	9.0	4.7	9	5.3	77.3	56.0	88.3	45.0
BAR VV-VP3-CT	8.0	6.0	85.0	60.0	8.0	4.0	9	4.0	70.0	56.0	90.0	40.0
CASCADE	7.3	4.7	85.0	60.0	8.3	2.7	9	4.7	77.0	58.0	88.3	31.7
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.	.	.	.	.
LSD VALUE	2.5	3.2	24.1	22.9	1.2	2.2	0	2.8	14.1	10.6	12.9	20.4
C.V. (%)	10.2	20.0	8.3	11.3	4.8	20.9	0	18.9	6.1	8.0	4.5	17.3

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ   1/
2019 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED (SEPT) | | | | AFTER FALL TRAFFIC WAS COMPLETED (NOVEMBER) | | | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | BRUISING | BRUISING | PERCENT COVER | | FULLNESS OF CANOPY | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
RAD-FR47	8.0	6.0	85.0	72.5	8.5	2.5	9	4.5	69.0	54.0	90.0	47.5
7C34	8.7	7.0	86.7	71.7	8.7	4.0	9	4.7	76.3	57.3	90.0	43.3
DLFPS-FRR/3069	7.3	6.7	81.7	73.3	8.7	3.7	9	4.7	74.7	57.3	88.3	43.3
PST-4RUE	8.7	8.0	86.7	76.7	8.7	4.3	9	4.7	77.0	59.0	90.0	43.3
NAVIGATOR II	8.7	6.3	90.0	65.0	9.0	4.0	9	5.0	72.3	58.0	90.0	41.7
DLFPS-FRR/3068	9.0	7.5	87.5	72.5	9.0	4.0	9	5.5	73.5	56.5	90.0	40.0
MARVEL	8.3	6.3	78.3	65.0	8.7	3.3	9	4.0	75.7	53.0	91.7	40.0
PST-4BEN	8.7	6.3	85.0	66.7	9.0	3.7	9	4.3	73.7	51.7	90.0	40.0
RAD-FR33R	9.0	6.0	85.0	70.0	9.0	5.0	9	3.0	73.0	50.0	95.0	40.0
PST-4DR4	8.0	5.7	86.7	68.3	8.3	3.3	9	4.0	76.7	59.7	83.3	36.7
CARDINAL II (PPG-FRR 111)	8.3	6.0	88.3	71.7	8.0	3.7	9	6.0	78.0	61.3	86.7	35.0
DLF-FRR 6162	8.3	5.7	90.0	70.0	8.3	3.7	9	5.3	76.7	53.3	85.0	35.0
BOREAL	6.0	4.7	68.3	58.3	8.0	2.0	9	4.3	75.7	56.0	85.0	33.3
PST-4ED4	7.7	5.3	81.7	63.3	9.0	2.3	9	4.3	73.7	62.7	85.0	33.3
KENT	7.3	5.7	80.0	63.3	8.7	2.3	9	4.7	76.0	59.3	80.0	28.3
LSD VALUE	1.4	3.3	17.0	25.8	2.2	3.1	0	2.1	12.0	15.7	17.9	23.0
C.V. (%)	8.6	19.4	8.2	12.2	7.7	32.7	0	17.8	4.9	9.4	6.7	20.2

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ   1/
2019 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED (SEPT) | | | | AFTER FALL TRAFFIC WAS COMPLETED (NOVEMBER) | | | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | BRUISING | | BRUISING | PERCENT COVER | | FULLNESS OF CANOPY | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
GLADIATOR (TH456)	5.3	5.0	66.7	60.0	8.7	4.3	9	6.0	77.0	67.7	90.0	58.3
BEACON	8.0	6.5	90.0	70.0	9.0	5.0	9	7.5	73.0	65.5	90.0	57.5
DLFPS-FL/3066	6.7	5.3	70.0	61.7	9.0	4.0	9	5.3	74.7	67.3	90.0	55.0
JETTY (PPG-FL 106)	8.3	6.0	86.7	65.0	9.0	4.3	9	6.3	76.3	67.7	91.7	53.3
MNHD-14	8.7	5.7	88.3	75.0	9.0	4.7	9	6.0	71.3	62.0	90.0	53.3
RESOLUTE (7H7)	4.7	4.3	58.3	58.3	7.7	5.0	9	7.3	77.7	68.0	85.0	50.0
SWORD	7.5	5.0	75.0	60.0	9.0	4.5	9	6.5	76.0	69.5	90.0	50.0
MINIMUS	7.7	4.0	71.7	58.3	9.0	5.3	9	5.7	75.0	62.0	90.0	48.3
PST-4BND	5.0	4.0	60.0	60.0	9.0	3.5	9	6.0	78.0	74.0	90.0	47.5
QUATRO	6.7	4.3	78.3	60.0	8.7	3.7	9	4.3	73.0	62.3	90.0	46.7
DLFPS-FL/3060	5.3	4.0	68.3	55.0	7.0	4.7	9	5.3	62.0	60.3	66.7	33.3
LSD VALUE	6.2	4.8	38.6	39.0	4.2	5.7	0	2.3	18.8	10.9	40.9	34.3
C.V. (%)	33.7	33.5	20.3	20.8	16.5	39.0	0	17.0	9.6	7.1	16.1	24.3

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ   1/
2019 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED (SEPT) | | | | AFTER FALL TRAFFIC WAS COMPLETED (NOVEMBER) | | | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | BRUISING | | BRUISING | PERCENT COVER | | FULLNESS OF CANOPY | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SEAMIST (PPG-FRT 101)	9.0	6.0	90.0	70.0	9.0	4.0	9	7.0	75.0	63.0	90.0	55.0
BARPEARL (BAR FRT 5002)	5.3	5.0	71.7	56.7	8.3	3.0	9	6.0	82.3	63.3	83.3	36.7
SEABREEZE GT	5.0	3.5	67.5	52.5	9.0	4.0	9	5.0	73.0	56.0	85.0	35.0
BEUDIN	4.7	3.3	58.3	53.3	8.0	2.7	9	6.0	76.0	61.0	83.3	28.3
LSD VALUE	7.5	2.2	40.1	18.9	3.6	1.4	0	2.7	9.5	10.3	30.6	22.1
C.V. (%)	45.5	15.8	19.0	10.8	14.4	14.6	0	15.0	3.9	5.5	12.5	20.6

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.

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TABLE 8A.                        MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
                                GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR  1/
                                                    2019 DATA

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


NAME                         JAN    FEB    MAR    APR    MAY    JUN    JUL    AUG    SEP    OCT    NOV    DEC    MEAN

7C34                         5.7    6.0    5.7    5.7    6.7    6.7    5.7    5.3    6.3    6.7    6.7    5.3    6.0
BEUDIN                       6.0    6.3    6.0    5.3    6.3    7.0    5.3    5.0    5.3    6.3    7.0    4.7    5.9
CARDINAL II (PPG-FRR 111)    5.3    6.0    5.7    5.7    6.0    6.7    5.7    5.7    6.7    6.0    6.0    5.0    5.9
BAR VV-VP3-CT                5.0    5.7    5.0    5.0    6.0    6.0    5.7    5.7    6.7    6.3    6.3    4.7    5.7
DLF-FRC 3338                 5.3    6.0    5.7    5.3    6.0    6.7    5.3    5.0    5.7    6.0    6.3    5.0    5.7
LEEWARD (DLFPS-FRC/3057)     5.3    6.0    5.7    5.0    6.0    6.7    5.7    5.0    6.0    6.3    6.0    4.3    5.7
MOMENTUM (PPG-FRC 114)       5.0    5.7    5.7    5.3    6.0    6.7    5.7    5.7    6.3    6.0    6.0    4.7    5.7
RADAR                        5.3    5.7    5.0    5.3    6.3    6.7    5.7    5.0    6.0    6.3    6.3    4.7    5.7
BARPEARL (BAR FRT 5002)      5.7    6.0    5.0    5.0    5.3    6.0    5.0    4.7    5.7    6.3    6.7    5.3    5.6
BEACON                       5.7    6.0    6.0    6.0    6.0    6.0    5.0    4.0    5.0    6.0    6.3    5.0    5.6
BOLSTER (C14-OS3)            5.7    6.0    5.0    4.7    6.0    6.7    5.7    5.0    6.0    6.0    6.3    4.3    5.6
BOREAL                       5.0    6.0    5.7    5.3    6.3    6.0    5.3    5.0    6.0    5.7    6.0    4.7    5.6
SPINDRIFT (DLFPS-FRC/3060)   4.7    5.7    5.7    6.0    5.7    6.3    5.3    5.0    6.0    6.0    6.0    4.7    5.6
JETTY (PPG-FL 106)           5.3    5.7    5.3    5.3    6.0    7.0    5.3    5.3    5.7    6.0    6.0    4.3    5.6
MARVEL                       5.3    6.0    5.7    5.7    5.7    6.0    5.0    5.0    6.0    6.3    6.3    4.3    5.6
PST-4BEN                     5.3    6.0    5.3    5.3    6.3    6.0    5.3    4.7    5.7    5.7    6.0    5.0    5.6
PST-4RUE                     5.0    5.3    5.3    5.3    5.7    5.7    5.3    5.3    6.3    6.3    6.0    5.0    5.6
RESOLUTE (7H7)               5.7    6.3    5.3    5.3    6.0    5.7    5.0    4.7    5.7    6.0    6.7    4.3    5.6
DLF-FRR 6162                 5.0    6.3    5.7    5.3    5.7    6.0    5.0    4.7    5.7    6.3    6.0    4.3    5.5
DLFPS-FRR/3069               5.0    6.0    6.0    6.0    6.0    6.0    5.0    4.7    5.7    5.7    6.0    4.3    5.5
PST-4DR4                     5.0    5.7    5.0    5.0    6.0    5.7    5.0    5.0    6.0    6.0    6.0    5.3    5.5
RAD-FR47                     5.7    6.0    5.0    5.0    6.0    6.3    5.3    4.7    5.7    6.0    6.0    4.3    5.5
SEAMIST (PPG-FRT 101)        5.0    6.0    5.3    5.3    5.7    6.0    5.3    5.0    6.0    6.0    6.0    4.7    5.5
COMPASS II (PPG-FRC 113)     5.0    5.7    5.0    5.0    6.0    6.0    5.0    4.7    5.7    5.7    6.0    4.7    5.4
DLFPS-FL/3066                5.3    5.3    5.3    5.7    6.0    6.0    5.0    4.7    5.3    5.3    5.7    4.7    5.4
KENT                         4.7    5.3    5.0    5.0    6.3    5.7    5.0    5.0    6.0    6.0    6.0    4.7    5.4
PST-4ED4                     5.0    6.0    5.7    5.3    5.3    6.3    5.3    5.0    6.0    5.7    6.0    3.7    5.4
RAD-FR33R                    5.0    6.0    5.0    5.0    5.3    5.7    5.0    5.0    6.0    5.7    6.0    5.0    5.4
CASTLE (RAD-FC32)            5.0    6.0    5.0    4.7    6.0    6.0    5.0    4.3    5.3    5.3    6.0    4.3    5.3
DLFPS-FL/3060                5.0    5.7    6.0    5.7    5.0    5.3    4.7    4.3    5.3    5.7    6.0    5.0    5.3
DLFPS-FRR/3068               5.0    6.0    5.7    5.7    6.0    6.0    5.0    4.3    5.3    5.0    5.7    4.3    5.3
GLADIATOR (TH456)            5.0    5.7    5.7    5.7    5.7    5.7    4.7    4.0    5.0    5.3    5.7    5.0    5.3
NAVIGATOR II                 4.7    5.3    5.3    5.7    5.3    6.3    5.3    5.0    5.7    5.7    5.7    4.0    5.3
PST-4BND                     5.3    6.0    5.3    5.3    5.0    5.3    4.7    4.7    5.7    5.7    6.0    4.7    5.3
SWORD                        5.0    5.3    5.3    6.0    5.3    5.7    4.7    4.0    5.0    6.0    5.7    5.0    5.3
CASCADE                      4.7    5.7    5.3    5.0    5.3    6.0    5.0    4.0    5.0    6.0    5.7    4.3    5.2
SANDRINE (BAR 6FR 126)       5.7    5.7    5.0    5.0    6.3    6.3    5.0    4.3    5.0    5.3    5.3    3.0    5.2
MINIMUS                      5.7    6.0    5.0    4.3    5.3    5.7    4.7    3.7    4.7    5.7    6.0    4.7    5.1
RAD-FC44                     4.3    5.3    5.0    5.0    5.3    6.0    5.0    4.3    5.3    5.0    5.0    5.0    5.1
SEABREEZE GT                 4.3    5.3    5.0    5.0    6.0    6.3    5.0    4.3    5.0    5.3    5.0    4.3    5.1
MNHD-14                      4.3    5.3    5.0    5.0    5.0    6.0    5.0    4.0    5.0    5.0    5.0    5.0    5.0
QUATRO                       4.7    5.7    5.3    5.0    4.3    5.3    4.3    4.0    5.0    5.3    5.7    4.7    4.9


LSD VALUE                    1.9    1.4    0.9    1.5    2.2    1.1    1.6    1.3    1.7    2.3    1.0    2.1    0.9
C.V. (%)                    12.3    8.1    8.0   10.6   12.7    8.7   10.2   13.1   12.1   11.7    8.1   15.1    6.2
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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 8B.   MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS
                               GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
                                                    2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BAR VV-VP3-CT	5.0	5.7	5.0	5.0	6.0	6.0	5.7	5.7	6.7	6.3	6.3	4.7	5.7
DLF-FRC 3338	5.3	6.0	5.7	5.3	6.0	6.7	5.3	5.0	5.7	6.0	6.3	5.0	5.7
LEEWARD (DLFPS-FRC/3057)	5.3	6.0	5.7	5.0	6.0	6.7	5.7	5.0	6.0	6.3	6.0	4.3	5.7
MOMENTUM (PPG-FRC 114)	5.0	5.7	5.7	5.3	6.0	6.7	5.7	5.7	6.3	6.0	6.0	4.7	5.7
RADAR	5.3	5.7	5.0	5.3	6.3	6.7	5.7	5.0	6.0	6.3	6.3	4.7	5.7
BOLSTER (C14-OS3)	5.7	6.0	5.0	4.7	6.0	6.7	5.7	5.0	6.0	6.0	6.3	4.3	5.6
SPINDRIFT (DLFPS-FRC/3060)	4.7	5.7	5.7	6.0	5.7	5.7	5.3	5.0	6.0	6.0	6.0	4.7	5.6
COMPASS II (PPG-FRC 113)	5.0	5.7	5.0	5.0	6.0	6.0	5.0	4.7	5.7	5.7	6.0	4.7	5.4
CASTLE (RAD-FC32)	5.0	6.0	5.0	4.7	6.0	6.0	5.0	4.3	5.3	5.3	6.0	4.3	5.3
CASCADE	4.7	5.7	5.3	5.0	5.3	6.0	5.0	4.0	5.0	6.0	5.7	4.3	5.2
SANDRINE (BAR 6FR 126)	5.7	5.7	5.0	5.0	6.3	6.3	5.0	4.3	5.0	5.3	5.3	3.0	5.2
RAD-FC44	4.3	5.3	5.0	5.0	5.3	6.0	5.0	4.3	5.3	5.0	5.0	5.0	5.1
LSD VALUE	2.0	1.6	0.8	0.9	1.8	0.9	1.3	1.1	1.6	1.9	1.6	2.2	0.8
C.V. (%)	14.6	9.0	7.2	8.3	10.9	6.3	9.4	11.5	12.2	12.2	10.9	18.8	6.3

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 8C.   MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                               GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
                                                    2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
7C34	5.7	6.0	5.7	5.7	6.7	6.7	5.7	5.3	6.3	6.7	6.7	5.3	6.0
CARDINAL II (PPG-FRR 111)	5.3	6.0	5.7	5.7	6.0	6.7	5.7	5.7	6.7	6.0	6.0	5.0	5.9
BOREAL	5.0	6.0	5.7	5.3	6.3	6.0	5.3	5.0	6.0	5.7	6.0	4.7	5.6
MARVEL	5.3	6.0	5.7	5.7	5.7	6.0	5.0	5.0	6.0	6.3	6.3	4.3	5.6
PST-4BEN	5.3	6.0	5.3	5.3	6.3	6.0	5.3	4.7	5.7	5.7	6.0	5.0	5.6
PST-4RUE	5.0	5.3	5.3	5.3	5.7	5.7	5.3	5.3	6.3	6.3	6.0	5.0	5.6
DLF-FRR 6162	5.0	6.3	5.7	5.3	5.7	6.0	5.0	4.7	5.7	6.3	6.0	4.3	5.5
DLFPS-FRR/3069	5.0	6.0	6.0	6.0	6.0	6.0	5.0	4.7	5.7	5.7	6.0	4.3	5.5
PST-4DR4	5.0	5.7	5.0	5.0	6.0	5.7	5.0	5.0	6.0	6.0	6.0	5.3	5.5
RAD-FR47	5.7	6.0	5.0	5.0	6.0	6.3	5.3	4.7	5.7	6.0	6.0	4.3	5.5
KENT	4.7	5.3	5.0	5.0	6.3	5.7	5.0	5.0	6.0	6.0	6.0	4.7	5.4
PST-4ED4	5.0	6.0	5.7	5.3	5.3	6.3	5.3	5.0	6.0	5.7	6.0	3.7	5.4
RAD-FR33R	5.0	6.0	5.0	5.0	5.3	5.7	5.0	5.0	6.0	5.7	6.0	5.0	5.4
DLFPS-FRR/3068	5.0	6.0	5.7	5.7	6.0	6.0	5.0	4.3	5.3	5.0	5.7	4.3	5.3
NAVIGATOR II	4.7	5.3	5.3	5.7	5.3	6.3	5.3	5.0	5.7	5.7	5.7	4.0	5.3
LSD VALUE	1.0	0.7	1.1	1.9	2.2	1.2	1.3	1.9	2.0	1.3	0.7	2.1	0.8
C.V. (%)	7.9	5.8	8.6	11.6	12.8	7.9	8.6	12.9	11.2	9.2	5.1	17.1	5.5

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 8D.   MEAN TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BEACON	5.7	6.0	6.0	6.0	6.0	6.0	5.0	4.0	5.0	6.0	6.3	5.0	5.6
JETTY (PPG-FL 106)	5.3	5.7	5.3	5.3	6.0	7.0	5.3	5.3	5.7	6.0	6.0	4.3	5.6
RESOLUTE (7H7)	5.7	6.3	5.3	5.3	6.0	5.7	5.0	4.7	5.7	6.0	6.7	4.3	5.6
DLFPS-FL/3066	5.3	5.3	5.3	5.7	6.0	6.0	5.0	4.7	5.3	5.3	5.7	4.7	5.4
DLFPS-FL/3060	5.0	5.7	6.0	5.7	5.0	5.3	4.7	4.3	5.3	5.7	6.0	5.0	5.3
GLADIATOR (TH456)	5.0	5.7	5.7	5.7	5.7	5.7	4.7	4.0	5.0	5.3	5.7	5.0	5.3
PST-4BND	5.3	6.0	5.3	5.3	5.0	5.3	4.7	4.7	5.7	5.7	6.0	4.7	5.3
SWORD	5.0	5.3	5.3	6.0	5.3	5.7	4.7	4.0	5.0	6.0	5.7	5.0	5.3
MINIMUS	5.7	6.0	5.0	4.3	5.3	5.7	4.7	3.7	4.7	5.7	6.0	4.7	5.1
MNHD-14	4.3	5.3	5.0	5.0	5.0	6.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0
QUATRO	4.7	5.7	5.3	5.0	4.3	5.3	4.3	4.0	5.0	5.3	5.7	4.7	4.9
LSD VALUE	2.1	1.5	1.1	1.2	1.8	1.7	1.7	1.6	2.1	2.3	1.1	1.0	1.1
C.V. (%)	15.0	10.0	8.8	10.4	14.1	12.0	12.6	15.5	14.1	14.2	8.5	8.4	7.7

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

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

TABLE 8E.   MEAN TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
2019 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BEUDIN	6.0	6.3	6.0	5.3	6.3	7.0	5.3	5.0	5.3	6.3	7.0	4.7	5.9
BARPEARL (BAR FRT 5002)	5.7	6.0	5.0	5.0	5.3	6.0	5.0	4.7	5.7	6.3	6.7	5.3	5.6
SEAMIST (PPG-FRT 101)	5.0	6.0	5.3	5.3	5.7	6.0	5.3	5.0	6.0	6.0	6.0	4.7	5.5
SEABREEZE GT	4.3	5.3	5.0	5.0	6.0	6.3	5.0	4.3	5.0	5.3	5.0	4.3	5.1
LSD VALUE	0.8	1.0	0.6	1.0	1.2	1.3	1.4	1.1	1.2	1.3	0.6	1.3	0.5
C.V. (%)	7.1	7.5	5.4	8.5	9.5	9.1	11.6	9.9	10.1	9.6	4.7	12.7	4.0

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 9A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                      GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                                    2019 DATA

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

	PERCENT GROUND COVER		QUALITY RATINGS									
NAME	SPRING	SUMMER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
DLF-FRC 3338	85.7	79.3	7.7	7.7	8.7	8.3	8.7	7.7	6.3	8.0	8.7	8.0
RADAR	82.0	74.7	7.3	8.3	8.0	8.0	8.3	7.7	7.3	7.3	7.3	7.7
DLF-FRR 6162	75.0	75.3	7.0	7.3	8.3	7.3	7.3	6.7	6.0	8.0	8.0	7.3
BARPEARL (BAR FRT 5002)	74.7	78.7	6.0	7.0	8.3	8.0	7.0	7.0	6.3	7.3	7.3	7.1
MNHD-14	74.7	73.3	6.3	7.3	8.3	7.7	7.0	7.0	6.3	7.0	6.7	7.1
CASTLE (RAD-FC32)	70.7	74.3	7.7	8.0	8.0	7.7	6.7	5.7	4.3	7.3	7.3	7.0
BOREAL	73.7	72.0	7.0	7.0	7.3	6.7	7.0	7.0	5.7	7.7	6.7	6.9
MINIMUS	70.7	61.7	6.7	7.7	7.7	7.7	7.3	7.0	5.3	6.3	6.7	6.9
SWORD	65.7	52.7	6.7	7.3	7.3	7.0	7.7	7.0	5.3	7.0	6.7	6.9
GLADIATOR (TH456)	68.0	64.0	7.0	7.3	7.7	7.3	6.7	6.3	5.3	7.0	6.7	6.8
PST-4DR4	73.0	69.0	6.7	6.7	8.0	6.7	6.7	6.7	6.3	6.7	6.7	6.8
SEAMIST (PPG-FRT 101)	71.0	70.3	6.3	7.0	8.0	6.7	7.0	7.0	6.0	7.0	6.3	6.8
BAR VV-VP3-CT	68.3	63.7	7.0	7.7	8.3	7.7	6.3	5.7	5.3	6.3	6.0	6.7
DLFPS-FRR/3068	60.0	66.3	7.3	6.7	7.3	7.0	7.0	6.3	4.7	6.7	7.7	6.7
COMPASS II (PPG-FRC 113)	67.3	43.7	7.0	6.7	7.7	7.7	7.3	6.3	4.3	6.3	6.0	6.6
SANDRINE (BAR 6FR 126)	57.0	60.7	7.0	7.7	7.7	7.7	7.0	6.0	4.7	6.0	6.0	6.6
RAD-FC44	69.7	62.0	6.7	7.0	7.7	7.3	7.0	6.0	4.3	6.3	6.3	6.5
CASCADE	66.7	55.0	7.3	6.7	7.0	7.3	7.0	5.3	4.0	6.3	6.7	6.4
PST-4RUE	69.0	61.0	5.7	6.0	7.3	7.0	6.7	6.0	5.0	6.7	6.7	6.4
RAD-FR33R	71.7	56.3	6.3	6.3	7.7	7.0	7.3	6.0	4.3	6.7	6.3	6.4
BEUDIN	55.7	46.0	6.0	6.0	7.3	6.7	6.7	6.3	5.3	6.3	6.0	6.3
MOMENTUM (PPG-FRC 114)	67.3	57.0	6.7	7.0	8.0	7.3	6.3	5.3	4.3	6.0	6.0	6.3
BOLSTER (C14-OS3)	60.0	44.7	6.7	7.7	8.3	7.0	7.0	5.3	3.3	5.3	5.0	6.2
DLFPS-FL/3060	62.0	42.0	6.7	6.3	7.7	7.7	6.3	5.7	4.7	6.0	5.0	6.2
LEEWARD (DLFPS-FRC/3057)	64.3	39.7	7.0	7.0	8.0	7.0	7.0	5.3	3.3	5.7	5.3	6.2
7C34	64.7	57.3	6.0	6.7	7.7	6.3	6.3	5.3	4.3	6.3	6.3	6.1
PST-4BEN	64.0	48.3	6.7	6.7	7.7	6.3	5.7	5.3	4.7	6.0	5.7	6.1
RAD-FR47	66.3	64.0	6.3	6.0	6.7	6.7	6.0	5.7	5.0	6.3	6.0	6.1
KENT	48.7	57.7	6.0	7.0	7.3	6.0	5.3	5.0	4.3	5.7	6.0	5.9
PST-4ED4	51.3	56.0	6.0	6.3	7.3	6.3	5.7	5.3	4.7	5.3	5.3	5.8
PST-4BND	54.7	37.3	6.3	6.7	6.7	6.7	5.7	5.3	4.0	4.7	5.0	5.7
SEABREEZE GT	61.3	58.3	5.7	6.3	6.0	6.3	6.3	5.7	4.0	5.7	5.7	5.7
SPINDRIFT (DLFPS-FRC/3060)	56.0	27.7	7.0	7.0	7.3	6.7	6.3	4.3	2.0	4.7	4.7	5.6
QUATRO	18.0	17.0	6.7	6.7	6.3	6.0	5.0	4.0	3.3	4.7	4.0	5.2
BEACON	33.7	24.0	6.0	6.3	6.3	5.3	5.7	4.3	3.7	4.3	4.0	5.1
MARVEL	39.0	13.3	6.0	6.0	6.3	6.0	5.3	4.7	3.3	4.3	4.3	5.1
JETTY (PPG-FL 106)	62.7	18.0	6.0	6.0	6.3	6.3	5.0	4.0	2.7	3.3	3.7	4.8
NAVIGATOR II	46.0	25.7	6.0	5.7	6.0	5.7	5.3	4.0	2.3	4.3	3.7	4.8
DLFPS-FL/3066	22.0	14.3	4.7	4.7	5.3	5.3	5.3	4.0	2.0	4.0	4.0	4.4
CARDINAL II (PPG-FRR 111)	19.3	11.0	3.7	4.3	4.7	4.3	3.7	3.0	1.0	2.3	2.7	3.3
RESOLUTE (7H7)	10.0	1.7	4.3	5.0	4.0	3.7	4.0	3.3	1.7	2.0	1.7	3.3
DLFPS-FRR/3069	13.7	11.0	2.7	3.7	3.7	3.0	3.0	2.3	1.3	2.7	2.3	2.7
LSD VALUE	17.6	25.0	1.1	1.1	1.5	1.6	1.6	1.5	1.8	1.7	1.7	1.1
C.V. (%)	19.6	31.7	11.4	10.6	12.6	14.3	15.0	16.7	25.4	18.4	18.5	11.6

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 9B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                                     GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                                  2019 DATA

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

                     PERCENT GROUND COVER   QUALITY RATINGS
NAME   SPRING   SUMMER   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   NOV   MEAN

DLF-FRC 3338   85.7   79.3   7.7   7.7   8.7   8.3   8.7   7.7   6.3   8.0   8.7   8.0
RADAR   82.0   74.7   7.3   8.3   8.0   8.0   8.3   7.7   7.3   7.3   7.3   7.7
CASTLE (RAD-FC32)   70.7   74.3   7.7   8.0   8.0   7.7   6.7   5.7   4.3   7.3   7.3   7.0
BAR VV-VP3-CT   68.3   63.7   7.0   7.7   8.3   7.7   6.3   5.7   5.3   6.3   6.0   6.7
COMPASS II (PPG-FRC 113) 67.3   43.7   7.0   6.7   7.7   7.7   7.3   6.3   4.3   6.3   6.0   6.6
SANDRINE (BAR 6FR 126) 57.0   60.7   7.0   7.7   7.7   7.7   7.0   6.0   4.7   6.0   6.0   6.6
RAD-FC44   69.7   62.0   6.7   7.0   7.7   7.3   7.0   6.0   4.3   6.3   6.3   6.5
CASCADE   66.7   55.0   7.3   6.7   7.0   7.3   7.0   5.3   4.0   6.3   6.7   6.4
MOMENTUM (PPG-FRC 114) 67.3   57.0   6.7   7.0   8.0   7.3   6.3   5.3   4.3   6.0   6.0   6.3
BOLSTER (C14-OS3)   60.0   44.7   6.7   7.7   8.3   7.0   7.0   5.3   3.3   5.3   5.0   6.2
LEEWARD (DLFPS-FRC/3057) 64.3   39.7   7.0   7.0   8.0   7.0   7.0   5.3   3.3   5.7   5.3   6.2
SPINDRIFT (DLFPS-FRC/3060) 56.0 27.7   7.0   7.0   7.3   6.7   6.3   4.3   2.0   4.7   4.7   5.6

LSD VALUE   22.6   31.7   2.4   1.7   1.9   3.1   1.9   1.9   1.9   2.2   2.2   1.4
C.V. (%)   15.5   28.3   11.3   10.0   9.2   13.9   12.5   16.3   24.6   16.5   18.2   10.7

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

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

TABLE 9C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                                     GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                                  2019 DATA

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

                     PERCENT GROUND COVER   QUALITY RATINGS
NAME   SPRING   SUMMER   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   NOV   MEAN

DLF-FRR 6162   75.0   75.3   7.0   7.3   8.3   7.3   7.3   6.7   6.0   8.0   8.0   7.3
BOREAL   73.7   72.0   7.0   7.0   7.3   6.7   7.0   7.0   5.7   7.7   6.7   6.9
PST-4DR4   73.0   69.0   6.7   6.7   8.0   6.7   6.7   6.7   6.3   6.7   6.7   6.8
DLFPS-FRR/3068   60.0   66.3   7.3   6.7   7.3   7.0   7.0   6.3   4.7   6.7   7.7   6.7
PST-4RUE   69.0   61.0   5.7   6.0   7.3   7.0   6.7   6.3   5.0   6.7   6.7   6.4
RAD-FR33R   71.7   56.3   6.3   6.3   7.7   7.0   7.3   6.0   4.3   6.7   6.3   6.4
7C34   64.7   57.3   6.0   6.7   7.7   6.3   6.3   5.3   4.3   6.3   6.3   6.1
PST-4BEN   64.0   48.3   6.7   6.7   7.7   6.3   5.7   5.3   4.7   6.0   5.7   6.1
RAD-FR47   66.3   64.0   6.3   6.0   6.7   6.7   6.0   5.7   5.0   6.3   6.0   6.1
KENT   48.7   57.7   6.0   7.0   7.3   6.0   5.3   5.0   4.3   5.7   6.0   5.9
PST-4ED4   51.3   56.0   6.0   6.3   7.3   6.3   5.7   5.3   4.7   5.3   5.3   5.8
MARVEL   39.0   13.3   6.0   6.0   6.3   6.0   5.3   4.7   3.3   4.3   4.3   5.1
NAVIGATOR II   46.0   25.7   6.0   5.7   6.0   5.7   5.3   4.0   2.3   4.3   3.7   4.8
CARDINAL II (PPG-FRR 111) 19.3   11.0   3.7   4.3   4.7   4.3   3.7   3.0   1.0   2.3   2.7   3.3
DLFPS-FRR/3069   13.7   11.0   2.7   3.7   3.7   3.0   3.0   2.3   1.3   2.7   2.3   2.7

LSD VALUE   11.1   22.5   1.2   1.0   1.5   1.0   1.4   1.2   1.4   1.7   1.5   0.9
C.V. (%)   13.0   28.2   12.3   10.3   13.4   10.6   14.6   14.2   21.1   18.5   16.6   9.8

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

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

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TABLE 9D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                                GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                             2019 DATA

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

                    PERCENT GROUND COVER   QUALITY RATINGS
NAME   SPRING   SUMMER   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   NOV   MEAN

MNHD-14   74.7   73.3   6.3   7.3   8.3   7.7   7.0   7.0   6.3   7.0   6.7   7.1
MINIMUS   70.7   61.7   6.7   7.7   7.7   7.7   7.3   7.0   5.3   6.3   6.7   6.9
SWORD   65.7   52.7   6.7   7.3   7.3   7.0   7.7   7.0   5.3   7.0   6.7   6.9
GLADIATOR (TH456)   68.0   64.0   7.0   7.3   7.7   7.3   6.7   6.3   5.3   7.0   6.7   6.8
DLFPS-FL/3060   62.0   42.0   6.7   6.3   7.7   7.7   6.3   5.7   4.7   6.0   5.0   6.2
PST-4BND   54.7   37.3   6.3   6.7   6.7   6.7   5.7   5.3   4.0   4.7   5.0   5.7
QUATRO   18.0   17.0   6.7   6.7   6.3   6.0   5.0   4.0   3.3   4.7   4.0   5.2
BEACON   33.7   24.0   6.0   6.3   6.3   5.3   5.7   4.3   3.7   4.3   4.0   5.1
JETTY (PPG-FL 106) 62.7   18.0   6.0   6.0   6.3   6.3   5.0   4.0   2.7   3.3   3.7   4.8
DLFPS-FL/3066   22.0   14.3   4.7   4.7   5.3   5.3   5.3   4.0   2.0   4.0   4.0   4.4
RESOLUTE (7H7)   10.0   1.7   4.3   5.0   4.0   3.7   4.0   3.3   1.7   2.0   1.7   3.3

LSD VALUE   17.5   18.8   1.0   1.1   1.5   2.0   1.7   1.4   1.7   1.2   1.2   1.0
C.V. (%)   22.3   31.8   10.0   9.9   13.2   17.0   15.8   16.5   24.7   15.2   15.7   11.2

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

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

TABLE 9E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                                GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                             2019 DATA

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

                          PERCENT GROUND COVER   QUALITY RATINGS
NAME   SPRING   SUMMER   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   NOV   MEAN

BARPEARL (BAR FRT 5002)   74.7   78.7   6.0   7.0   8.3   8.0   7.0   7.0   6.3   7.3   7.3   7.1
SEAMIST (PPG-FRT 101)   71.0   70.3   6.3   7.0   8.0   6.7   7.0   7.0   6.0   7.0   6.3   6.8
BEUDIN   55.7   46.0   6.0   6.0   7.3   6.7   6.7   6.3   5.3   6.3   6.0   6.3
SEABREEZE GT   61.3   58.3   5.7   6.3   6.0   6.3   6.3   5.7   4.0   5.7   5.7   5.7

LSD VALUE   35.3   25.8   0.8   1.7   1.2   2.4   2.2   2.9   3.8   2.7   2.1   1.7
C.V. (%)   23.6   19.2   6.2   11.6   8.1   15.4   14.0   19.2   30.8   18.4   14.9   12.0

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 10A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                      GROWN UNDER NO MOWING AT RIVERSIDE, CA   1/
                                                     2019 DATA

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

NAME	GENETIC COLOR	SUMMER DENSITY	QUALITY RATINGS												MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MINIMUS	7.0	7.0	6.7	7.0	6.0	6.3	6.7	6.3	6.0	6.7	6.0	6.7	7.0	7.7	6.6
DLF-FRR 6162	6.5	7.0	6.0	6.3	6.3	6.0	6.0	6.0	6.3	6.0	6.0	6.3	7.0	8.0	6.4
7C34	6.7	6.7	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.0	6.0	6.3	6.7	7.3	6.3
PST-4BND	6.7	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.7	6.0	6.3	7.0	6.2
BOLSTER (C14-OS3)	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	7.3	6.1
LEEWARD (DLFPS-FRC/3057)	7.3	6.7	5.7	6.0	5.7	6.0	6.0	6.0	5.3	6.0	6.0	6.0	6.7	7.3	6.1
GLADIATOR (TH456)	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.1
PST-4BEN	7.0	6.3	6.0	6.0	5.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.3	7.0	6.1
PST-4RUE	7.3	6.7	6.0	6.0	5.7	5.7	5.7	5.7	6.0	6.3	6.0	6.0	6.7	7.3	6.1
BEUDIN	6.7	6.7	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.7	6.0	6.0	6.7	7.7	6.0
JETTY (PPG-FL 106)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0
BAR VV-VP3-CT	6.0	6.0	6.0	6.0	5.7	6.0	5.7	6.0	6.0	6.0	5.0	6.0	6.0	6.7	5.9
BEACON	7.0	6.0	5.7	6.0	5.7	5.3	5.7	6.0	5.7	6.0	5.7	6.0	6.3	7.0	5.9
CASCADE	6.7	6.0	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.7	6.0	6.0	6.3	7.0	5.9
CASTLE (RAD-FC32)	6.0	6.3	5.7	5.7	5.7	5.3	5.7	6.0	5.7	5.7	6.0	5.7	6.0	7.3	5.9
MNHD-14	6.3	6.3	6.3	6.0	6.0	5.7	5.7	6.0	6.0	6.0	6.0	5.7	5.7	6.3	5.9
RAD-FC44	7.0	6.3	5.7	5.7	5.7	5.7	5.7	6.0	6.0	5.7	6.0	5.7	6.0	7.0	5.9
RAD-FR47	6.3	6.7	5.7	5.3	5.7	5.3	6.0	5.7	5.7	6.0	5.7	6.0	6.7	7.7	5.9
SWORD	6.7	6.7	5.7	5.7	6.0	5.7	5.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.9
DLF-FRC 3338	7.0	6.3	6.3	5.7	5.7	5.3	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.7	5.8
PST-4DR4	6.7	6.0	6.0	5.7	5.7	5.7	6.0	5.7	5.7	6.0	6.0	5.3	5.7	6.0	5.8
PST-4ED4	7.0	6.7	5.7	5.7	5.7	5.7	5.7	5.3	5.7	6.0	6.0	5.7	6.3	7.0	5.8
SEABREEZE GT	6.3	6.3	5.7	5.7	5.7	5.7	6.0	5.3	5.7	5.7	5.7	5.7	6.0	6.7	5.8
KENT	7.3	6.3	5.7	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.3	5.7	5.7	7.3	5.7
QUATRO	7.0	6.3	5.7	5.7	5.0	5.0	5.3	5.7	6.0	6.0	5.7	5.7	6.0	6.7	5.7
DLFPS-FL/3060	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.7	5.7	6.0	5.3	5.3	6.0	5.6
MOMENTUM (PPG-FRC 114)	6.3	5.7	5.3	5.3	5.3	5.3	5.3	5.7	5.3	5.7	5.7	5.7	6.0	6.0	5.6
RAD-FR33R	7.3	6.0	5.7	5.7	5.3	5.7	5.3	5.3	5.3	5.3	5.7	5.7	5.7	6.3	5.6
RESOLUTE (7H7)	6.0	6.0	5.3	5.3	5.7	5.0	5.3	5.3	5.7	6.0	6.0	5.7	5.7	5.7	5.6
SEAMIST (PPG-FRT 101)	6.7	6.7	5.7	5.3	5.0	4.7	5.0	5.7	6.0	6.0	5.7	5.7	6.0	6.7	5.6
BOREAL	7.0	6.0	5.7	5.3	5.0	5.3	5.0	4.7	5.7	6.0	5.3	5.7	5.7	6.3	5.5
DLFPS-FRR/3068	6.7	5.7	5.7	5.7	5.3	5.3	5.3	5.0	5.3	6.0	5.3	5.3	5.7	6.3	5.5
MARVEL	6.7	6.0	5.7	5.3	5.0	5.0	5.3	5.0	5.3	5.7	5.7	6.0	5.7	6.7	5.5
NAVIGATOR II	7.3	6.3	5.7	5.3	5.3	5.3	5.3	5.3	5.3	6.0	5.3	5.3	5.7	6.3	5.5
BARPEARL (BAR FRT 5002)	6.0	5.7	5.3	5.3	5.3	5.0	5.3	5.0	5.0	5.3	6.0	5.3	5.7	5.7	5.4
DLFPS-FL/3066	6.7	6.0	5.7	5.7	5.7	5.3	5.3	4.7	5.7	5.7	5.3	5.3	5.0	5.7	5.4
SPINDRIFT (DLFPS-FRC/3060)	7.3	6.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.7	6.3	5.4
DLFPS-FRR/3069	6.3	6.0	5.7	5.7	5.3	5.0	5.0	5.3	5.3	5.3	5.3	5.7	5.3	6.0	5.4
CARDINAL II (PPG-FRR 111)	7.0	5.7	5.3	5.0	5.0	4.7	5.3	5.0	5.0	5.3	5.3	5.7	5.7	6.3	5.3
COMPASS II (PPG-FRC 113)	6.7	5.7	5.7	5.7	5.0	4.7	4.7	4.7	5.0	5.0	5.7	5.7	6.0	6.0	5.3
RADAR	7.0	5.7	5.0	5.3	5.0	4.7	4.7	5.0	5.3	5.7	5.7	5.0	5.0	5.3	5.1
SANDRINE (BAR 6FR 126)	7.3	5.0	5.0	5.0	4.3	5.0	4.7	5.0	5.7	5.3	5.3	5.0	4.7	5.0	5.0
LSD VALUE	2.3	1.1	1.6	1.2	1.4	1.0	1.6	1.6	1.8	1.5	1.4	1.6	2.0	2.6	1.1
C.V. (%)	10.5	8.6	8.9	8.8	10.1	9.2	10.9	11.3	10.1	8.9	8.4	9.2	12.7	15.1	8.0

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 10B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER NO MOWING AT RIVERSIDE, CA   1/
2019 DATA

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

NAME	GENETIC COLOR	SUMMER DENSITY	QUALITY RATINGS												
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BOLSTER (C14-OS3)	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	7.3	6.1
LEEWARD (DLFPS-FRC/3057)	7.3	6.7	5.7	6.0	5.7	6.0	6.0	6.0	5.3	6.0	6.0	6.0	6.7	7.3	6.1
BAR VV-VP3-CT	6.0	6.0	6.0	6.0	5.7	6.0	5.7	6.0	6.0	6.0	5.0	6.0	6.0	6.7	5.9
CASCADE	6.7	6.0	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.7	6.0	6.0	6.3	7.0	5.9
CASTLE (RAD-FC32)	6.0	6.3	5.7	5.7	5.7	5.3	5.7	6.0	5.7	5.7	6.0	5.7	6.0	7.3	5.9
RAD-FC44	7.0	6.3	5.7	5.7	5.7	5.7	5.7	6.0	6.0	5.7	6.0	5.7	6.0	7.0	5.9
DLF-FRC 3338	7.0	6.3	6.3	5.7	5.7	5.3	5.7	5.7	5.7	5.7	5.7	5.7	6.7	6.7	5.8
MOMENTUM (PPG-FRC 114)	6.3	5.7	5.3	5.3	5.3	5.3	5.3	5.7	5.3	5.7	5.7	5.7	6.0	6.0	5.6
SPINDRIFT (DLFPS-FRC/3060)	7.3	6.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.7	6.3	5.4
COMPASS II (PPG-FRC 113)	6.7	5.7	5.7	5.7	5.0	4.7	4.7	4.7	5.0	5.0	5.7	5.7	6.0	6.0	5.3
RADAR	7.0	5.7	5.0	5.3	5.0	4.7	4.7	5.0	5.3	5.7	5.7	5.0	5.0	5.3	5.1
SANDRINE (BAR 6FR 126)	7.3	5.0	5.0	5.0	4.3	5.0	4.7	5.0	5.7	5.3	5.3	5.0	4.7	5.0	5.0
LSD VALUE	1.4	1.6	1.3	1.1	1.6	1.0	1.4	1.2	2.1	1.5	0.7	1.0	1.6	2.5	1.2
C.V. (%)	9.1	10.8	10.0	8.0	12.0	9.5	11.5	9.9	12.6	9.7	6.4	8.0	12.0	16.5	8.8

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

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

TABLE 10C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER NO MOWING AT RIVERSIDE, CA   1/
2019 DATA

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

NAME	GENETIC COLOR	SUMMER DENSITY	QUALITY RATINGS												
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DLF-FRR 6162	6.5	7.0	6.0	6.3	6.3	6.0	6.0	6.0	6.3	6.0	6.0	6.3	7.0	8.0	6.4
7C34	6.7	6.7	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.0	6.0	6.3	6.7	7.3	6.3
PST-4BEN	7.0	6.3	6.0	6.0	5.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.3	7.0	6.1
PST-4RUE	7.3	6.7	6.0	6.0	5.7	5.7	5.7	5.7	6.0	6.3	6.0	6.0	6.7	7.3	6.1
RAD-FR47	6.3	6.7	5.7	5.3	5.7	5.3	6.0	5.7	5.7	6.0	5.7	6.0	6.7	7.7	5.9
PST-4DR4	6.7	6.0	6.0	5.7	5.7	5.7	6.0	5.7	5.7	6.0	6.0	5.3	5.7	6.0	5.8
PST-4ED4	7.0	6.7	5.7	5.7	5.7	5.7	5.7	5.3	5.7	6.0	5.7	5.7	6.3	7.0	5.8
KENT	7.3	6.3	5.7	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.3	5.7	5.7	7.3	5.7
RAD-FR33R	7.3	6.0	5.7	5.7	5.3	5.7	5.3	5.3	5.3	5.3	5.7	5.7	5.7	6.3	5.6
BOREAL	7.0	6.0	5.7	5.3	5.0	5.3	5.0	4.7	5.7	6.0	5.3	5.7	5.7	6.3	5.5
DLFPS-FRR/3068	6.7	5.7	5.7	5.7	5.3	5.3	5.3	5.0	5.3	6.0	5.3	5.3	5.7	6.3	5.5
MARVEL	6.7	6.0	5.7	5.3	5.0	5.0	5.3	5.0	5.3	5.7	5.7	6.0	5.7	6.7	5.5
NAVIGATOR II	7.3	6.3	5.7	5.3	5.3	5.3	5.3	5.3	5.3	6.0	5.3	5.3	5.7	6.3	5.5
DLFPS-FRR/3069	6.3	6.0	5.7	5.7	5.3	5.0	5.0	5.3	5.3	5.3	5.3	5.7	5.3	6.0	5.4
CARDINAL II (PPG-FRR 111)	7.0	5.7	5.3	5.0	5.0	4.7	5.3	5.0	5.0	5.3	5.3	5.7	5.7	6.3	5.3
LSD VALUE	2.8	1.1	1.7	1.5	1.1	1.3	1.5	1.7	1.4	1.2	1.6	1.9	2.3	3.2	1.2
C.V. (%)	12.2	7.9	8.7	9.9	8.7	9.5	10.3	12.5	10.2	8.4	9.9	10.9	14.3	16.4	8.5

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

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

TABLE 10D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER NO MOWING AT RIVERSIDE, CA   1/
2019 DATA

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

| | GENETIC | SUMMER | | | | | | QUALITY RATINGS | | | | | | | |
NAME	COLOR	DENSITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MINIMUS	7.0	7.0	6.7	7.0	6.0	6.3	6.7	6.3	6.0	6.7	6.0	6.7	7.0	7.7	6.6
PST-4BND	6.7	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.7	6.0	6.3	7.0	6.2
GLADIATOR (TH456)	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.1
JETTY (PPG-FL 106)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0
BEACON	7.0	6.0	5.7	6.0	5.7	5.3	5.7	6.0	5.7	6.0	5.7	6.0	6.3	7.0	5.9
MNHD-14	6.3	6.3	6.3	6.0	6.0	5.7	5.7	6.0	6.0	6.0	6.0	5.7	5.7	6.3	5.9
SWORD	6.7	6.7	5.7	5.7	6.0	5.7	5.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.9
QUATRO	7.0	6.3	5.7	5.7	5.0	5.0	5.3	5.7	6.0	6.0	5.7	5.7	6.0	6.7	5.7
DLFPS-FL/3060	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.7	5.7	6.0	5.3	5.3	6.0	5.6
RESOLUTE (7H7)	6.0	6.0	5.3	5.3	5.7	5.0	5.3	5.3	5.7	6.0	6.0	5.7	5.7	5.7	5.6
DLFPS-FL/3066	6.7	6.0	5.7	5.7	5.7	5.3	5.3	4.7	5.7	5.7	5.3	5.3	5.0	5.7	5.4
LSD VALUE	1.6	0.9	1.1	1.0	1.1	1.0	1.1	1.4	1.1	1.2	1.2	1.1	1.5	1.9	0.8
C.V. (%)	9.9	7.1	8.1	8.1	8.0	8.6	8.9	10.9	6.7	7.6	8.1	8.1	11.6	12.9	6.3

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 10E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER NO MOWING AT RIVERSIDE, CA   1/
2019 DATA

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

| | GENETIC | SUMMER | | | | | | QUALITY RATINGS | | | | | | | |
NAME	COLOR	DENSITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BEUDIN	6.7	6.7	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.7	6.0	6.0	6.7	7.7	6.0
SEABREEZE GT	6.3	6.3	5.7	5.7	5.7	5.7	6.0	5.3	5.7	5.7	5.7	5.7	6.0	6.7	5.8
SEAMIST (PPG-FRT 101)	6.7	6.7	5.7	5.3	5.0	4.7	5.0	5.7	6.0	6.0	5.7	5.7	6.0	6.7	5.6
BARPEARL (BAR FRT 5002)	6.0	5.7	5.3	5.3	5.3	5.0	5.3	5.0	5.0	5.3	6.0	5.3	5.7	5.7	5.4
LSD VALUE	1.7	1.4	1.5	1.0	1.9	0.9	2.2	1.6	1.7	1.9	1.0	1.3	2.0	2.1	1.3
C.V. (%)	11.6	10.2	11.6	8.0	14.8	8.3	17.1	12.7	13.0	14.1	7.6	9.8	14.5	14.4	10.1

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 11A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                          GROWN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/
                                                  2019 DATA

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

NAME	GENETIC COLOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	DOLLAR SPOT	COLOR DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
SEAMIST (PPG-FRT 101)	7.0	6.7	7.0	6.3	5.7	6.3	7.0	6.3	6.7	6.7	7.7	7.0	6.3	6.7	7.0	6.3	6.3	6.3	6.7
BEUDIN	6.3	6.7	6.7	6.3	6.0	7.0	7.0	6.7	6.7	7.3	7.0	6.7	6.0	6.3	6.3	6.3	6.3	6.7	6.6
BARPEARL (BAR FRT 5002)	7.0	7.0	6.0	6.3	5.3	6.3	6.0	7.0	7.0	6.7	6.7	6.3	5.7	5.7	6.3	6.3	6.7	6.0	6.4
MOMENTUM (PPG-FRC 114)	7.7	6.0	6.3	6.3	5.7	7.0	6.7	6.0	6.3	6.7	7.0	6.7	6.3	6.3	6.3	6.7	6.0	6.3	6.4
RAD-FR47	7.0	6.7	7.0	6.0	5.3	7.0	6.3	6.3	6.7	6.0	6.7	7.0	6.0	6.3	6.0	6.7	6.3	6.0	6.4
7C34	7.3	6.0	6.3	6.7	5.3	6.0	6.3	6.3	6.0	6.3	6.7	6.7	6.0	6.7	6.7	6.0	6.0	5.3	6.3
COMPASS II (PPG-FRC 113)	7.0	6.3	6.0	6.3	6.0	6.7	6.3	6.0	6.3	6.3	6.7	5.7	6.0	5.7	6.0	7.0	6.0	7.0	6.3
DLF-FRC 3338	7.0	6.3	6.0	6.3	6.0	6.0	6.7	6.3	6.0	6.3	7.3	6.3	5.7	6.3	6.0	6.3	6.0	6.0	6.3
DLF-FRR 6162	7.0	6.7	6.3	6.3	5.7	6.7	6.7	6.7	6.3	6.0	6.3	6.3	5.7	6.0	6.7	6.3	6.3	5.7	6.3
NAVIGATOR II	7.0	6.3	6.7	6.7	5.0	6.3	6.3	5.7	6.3	6.3	6.7	6.7	6.3	6.7	6.3	6.0	6.3	6.0	6.3
PST-4BEN	6.7	6.3	6.3	6.7	5.0	6.7	6.0	5.7	6.3	6.0	7.0	6.7	6.7	6.7	6.3	6.0	6.7	5.7	6.3
CARDINAL II (PPG-FRR 111)	7.0	6.0	6.3	6.0	6.0	7.0	6.0	6.0	6.0	6.0	6.7	6.3	6.0	6.0	6.3	6.7	6.3	6.0	6.2
PST-4RUE	6.7	6.0	6.3	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.7	6.0	6.0	6.7	6.0	6.3	6.3	6.2
RAD-FC44	7.0	6.0	6.3	6.0	7.3	7.0	6.3	6.7	6.7	6.3	6.7	6.3	5.7	6.0	5.7	6.0	5.7	6.3	6.2
BOLSTER (C14-OS3)	7.0	6.3	6.0	6.0	6.7	7.0	6.0	6.3	6.0	6.3	5.7	6.0	6.0	5.7	6.0	6.3	6.0	6.3	6.1
LEEWARD (DLFPS-FRC/3057)	7.0	6.0	6.3	6.3	6.0	6.3	6.3	6.0	6.0	6.3	6.3	6.0	6.0	6.0	6.3	6.3	5.7	6.3	6.1
SPINDRIFT (DLFPS-FRC/3060)	7.0	6.0	6.3	6.0	7.7	6.7	6.3	6.3	6.0	6.7	6.7	5.7	6.0	6.0	6.0	6.3	5.3	6.3	6.1
DLFPS-FRR/3068	7.0	5.7	6.0	6.3	6.3	6.0	6.3	6.3	5.7	6.3	6.0	6.0	5.7	5.7	6.0	6.7	6.0	6.3	6.1
MARVEL	6.7	6.0	6.7	6.3	5.3	6.3	6.0	6.0	6.0	6.0	6.3	6.3	6.3	6.0	6.0	6.0	6.0	6.0	6.1
PST-4DR4	6.0	6.0	6.0	6.3	5.3	6.0	6.0	5.7	6.0	5.7	6.7	6.0	6.3	6.3	6.0	6.3	6.3	6.3	6.1
RAD-FR33R	7.0	6.0	6.3	6.0	6.0	6.7	6.3	6.0	5.7	6.0	7.0	6.3	6.0	5.7	6.0	6.0	6.0	6.3	6.1
RADAR	7.0	6.3	6.0	6.0	6.7	6.7	6.3	6.3	6.3	6.3	6.3	5.7	5.7	5.7	5.7	6.0	6.0	6.1	
PST-4ED4	7.0	6.0	6.0	5.7	5.3	6.0	5.7	5.7	5.7	5.7	6.0	6.3	6.3	6.3	6.3	6.0	6.0	5.7	6.0
CASTLE (RAD-FC32)	7.3	5.7	5.7	5.7	5.3	6.7	6.7	6.0	6.0	6.0	6.0	5.7	5.7	5.3	5.7	5.7	5.7	6.3	5.9
KENT	7.0	6.0	5.7	6.0	5.3	6.0	6.0	6.0	6.0	6.0	6.3	6.3	5.7	5.7	6.3	5.7	5.7	5.7	5.9
SANDRINE (BAR 6FR 126)	7.0	6.3	5.3	5.3	5.7	6.0	6.3	6.3	6.3	6.3	6.3	5.7	5.3	5.3	5.3	5.3	5.7	5.3	5.8
DLFPS-FRR/3069	7.0	5.7	5.7	5.3	6.0	6.0	6.0	6.0	5.3	5.7	6.3	5.7	5.7	5.3	5.7	5.7	5.7	5.3	5.7
SEABREEZE GT	7.0	6.0	5.7	5.7	6.0	6.0	5.7	5.7	5.3	5.7	6.0	5.3	6.0	5.7	5.7	5.7	5.7	6.0	5.7
BAR VV-VP3-CT	7.0	6.3	5.7	5.7	6.3	7.0	6.0	5.7	6.3	5.3	6.3	5.0	5.0	5.3	5.3	5.7	5.7	5.3	5.6
CASCADE	7.0	5.7	6.0	6.0	5.3	6.0	6.0	5.7	5.3	5.7	6.0	5.7	5.0	5.7	5.7	5.3	5.7	5.7	5.6
DLFPS-FL/3060	7.7	5.3	6.0	5.3	6.0	6.7	6.0	5.7	6.0	5.7	6.0	5.3	6.3	5.7	5.0	5.7	5.0	5.3	5.6
MNHD-14	7.7	5.7	5.3	5.3	5.3	7.0	6.3	5.7	5.7	6.3	6.0	5.0	5.3	5.3	5.3	5.0	5.3	5.7	5.6
DLFPS-FL/3066	7.3	5.3	5.3	5.3	6.0	7.3	6.0	5.7	5.7	5.3	5.7	5.0	5.3	5.3	5.0	5.7	5.7	5.3	5.5
JETTY (PPG-FL 106)	7.7	5.3	5.3	5.7	6.0	6.0	5.7	5.7	5.0	5.0	6.0	5.3	5.7	5.7	5.7	5.7	5.3	5.3	5.5
SWORD	8.0	4.7	5.3	5.3	5.3	7.0	5.7	5.7	5.3	5.3	5.3	5.3	5.0	5.7	5.7	5.7	6.0	5.5	
BOREAL	7.0	5.3	5.3	5.7	5.3	6.3	5.3	5.7	5.0	5.0	5.7	5.7	5.3	5.3	5.3	5.3	5.3	5.7	5.4
RESOLUTE (7H7)	7.0	5.0	5.3	5.3	6.0	6.7	5.7	5.3	5.0	5.0	5.7	5.3	5.7	5.3	5.7	5.3	5.0	5.3	5.4
BEACON	6.7	5.0	4.7	5.0	5.3	6.3	6.0	5.7	5.3	4.7	4.7	5.0	5.3	5.3	5.3	5.3	5.3	5.7	5.3
GLADIATOR (TH456)	7.7	5.3	5.3	5.0	5.3	7.0	6.0	5.7	5.7	4.3	5.3	5.3	5.0	5.0	5.3	5.3	5.3	5.3	5.3
QUATRO	7.7	5.7	5.0	5.0	7.0	7.3	6.0	6.0	6.0	5.3	5.3	5.0	4.7	4.7	5.0	4.7	4.7	5.7	5.3
MINIMUS	7.0	5.7	4.7	5.3	5.7	6.3	5.7	5.0	5.0	5.0	5.0	4.7	5.0	5.3	5.3	5.3	5.3	5.0	5.1
PST-4BND	6.0	5.0	5.0	5.0	6.0	6.3	5.7	5.3	4.7	5.0	4.7	5.0	5.7	5.3	5.3	5.0	5.0	5.0	5.1
LSD VALUE	0.6	1.0	1.1	0.9	0.7	0.7	0.8	1.2	0.7	1.3	1.1	1.0	1.4	1.1	1.1	1.2	1.1	1.3	0.5
C.V. (%)	5.2	9.5	10.5	8.7	7.6	6.1	6.6	8.9	7.6	11.8	10.5	9.7	10.5	9.6	9.8	10.1	9.6	10.0	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 11B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                              GROWN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/
                                                     2019 DATA

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

| | GENETIC COLOR | SPRING DENSITY | SUMMER DENSITY | FALL DENSITY | DOLLAR SPOT | COLOR DEC | QUALITY RATINGS | | | | | | | | | | | |
NAME							JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MOMENTUM (PPG-FRC 114)	7.7	6.0	6.3	6.3	5.7	7.0	6.7	6.0	6.3	6.7	7.0	6.7	6.3	6.3	6.3	6.7	6.0	6.3	6.4
COMPASS II (PPG-FRC 113)	7.0	6.3	6.0	6.3	6.0	6.7	6.3	6.0	6.3	6.3	6.7	5.7	6.0	5.7	6.0	7.0	6.0	7.0	6.3
DLF-FRC 3338	7.0	6.3	6.0	6.3	6.0	6.0	6.7	6.3	6.0	6.3	7.3	6.3	5.7	6.3	6.0	6.3	6.0	6.0	6.3
RAD-FC44	7.0	6.0	6.3	6.0	7.3	7.0	6.3	6.7	6.7	6.3	6.7	6.3	5.7	6.0	5.7	6.0	5.7	6.3	6.2
BOLSTER (C14-OS3)	7.0	6.3	6.0	6.0	6.7	7.0	6.0	6.3	6.0	6.3	5.7	6.0	6.0	5.7	6.0	6.3	6.0	6.3	6.1
LEEWARD (DLFPS-FRC/3057)	7.0	6.0	6.3	6.3	6.0	6.3	6.3	6.0	6.0	6.3	6.3	6.0	6.0	6.0	6.3	6.3	5.7	6.3	6.1
SPINDRIFT (DLFPS-FRC/3060)	7.0	6.0	6.3	6.0	7.7	6.7	6.3	6.3	6.0	6.7	6.7	5.7	6.0	6.0	6.3	5.3	6.3	6.1	
RADAR	7.0	6.3	6.0	6.0	6.7	6.7	6.3	6.3	6.3	6.3	6.3	5.7	5.7	5.7	5.7	6.3	6.0	6.0	6.1
CASTLE (RAD-FC32)	7.3	5.7	5.7	5.7	5.3	6.7	6.7	6.0	6.0	6.0	6.0	5.7	5.7	5.3	5.7	5.7	5.7	6.3	5.9
SANDRINE (BAR 6FR 126)	7.0	6.3	5.3	5.3	5.7	6.0	6.3	6.3	6.3	6.3	6.3	5.7	5.3	5.3	5.3	5.3	5.7	5.3	5.8
BAR VV-VP3-CT	7.0	6.3	5.7	5.7	6.3	7.0	6.0	5.7	6.3	5.3	6.3	5.0	5.0	5.3	5.3	5.7	5.7	5.3	5.6
CASCADE	7.0	5.7	6.0	6.0	5.3	6.0	6.0	5.7	5.3	5.7	6.0	5.7	5.0	5.7	5.7	5.3	5.7	5.7	5.6
LSD VALUE	0.5	1.7	1.6	1.1	0.8	0.6	1.3	1.4	0.9	1.5	0.7	1.4	1.5	1.5	1.4	1.6	1.9	1.6	0.6
C.V. (%)	3.5	9.6	9.7	7.5	7.6	5.3	7.4	8.7	6.6	9.7	6.0	10.3	10.9	10.0	9.1	11.2	10.4	10.8	4.7

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 11C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                              GROWN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/
                                                     2019 DATA

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

| | GENETIC COLOR | SPRING DENSITY | SUMMER DENSITY | FALL DENSITY | DOLLAR SPOT | COLOR DEC | QUALITY RATINGS | | | | | | | | | | | |
NAME							JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
RAD-FR47	7.0	6.7	7.0	6.0	5.3	7.0	6.3	6.3	6.7	6.0	6.7	7.0	6.0	6.3	6.0	6.7	6.3	6.0	6.4
7C34	7.3	6.0	6.3	6.7	5.3	6.0	6.3	6.3	6.0	6.3	6.7	6.7	6.0	6.7	6.7	6.0	6.0	5.3	6.3
DLF-FRR 6162	7.0	6.7	6.3	6.3	5.7	6.7	6.7	6.7	6.3	6.0	6.3	6.3	5.7	6.0	6.7	6.3	6.3	5.7	6.3
NAVIGATOR II	7.0	6.3	6.7	6.7	5.0	6.3	6.3	5.7	6.3	6.3	6.7	6.7	6.3	6.7	6.3	6.0	6.3	6.0	6.3
PST-4BEN	6.7	6.3	6.3	6.7	5.0	6.7	6.0	5.7	6.3	6.0	7.0	6.7	6.7	6.0	6.3	6.0	6.7	5.7	6.3
CARDINAL II (PPG-FRR 111)	7.0	6.0	6.3	6.0	6.0	7.0	6.0	6.0	6.0	6.0	6.7	6.3	6.0	6.3	6.3	6.7	6.3	6.0	6.2
PST-4RUE	6.7	6.0	6.3	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.7	6.0	6.0	6.7	6.0	6.3	6.3	6.2
DLFPS-FRR/3068	7.0	5.7	6.0	6.3	6.3	6.0	6.3	6.3	5.7	6.3	6.0	6.0	5.7	5.7	6.0	6.7	6.0	6.3	6.1
MARVEL	6.7	6.0	6.7	6.3	5.3	6.3	6.0	6.0	6.0	6.0	6.3	6.3	6.3	6.0	6.0	6.0	6.0	6.0	6.1
PST-4DR4	6.0	6.0	6.0	6.3	5.3	6.0	6.0	5.7	6.0	5.7	6.7	6.0	6.3	6.3	6.0	6.3	6.3	6.3	6.1
RAD-FR33R	7.0	6.0	6.3	6.0	6.0	6.7	6.3	6.0	5.7	6.0	7.0	6.3	6.0	5.7	6.0	6.0	6.0	6.3	6.1
PST-4ED4	7.0	6.0	6.0	5.7	5.3	6.0	5.7	5.7	5.7	5.7	6.0	6.3	6.3	6.3	6.3	6.0	6.0	5.7	6.0
KENT	7.0	6.0	5.7	6.0	5.3	6.0	6.0	6.0	6.0	6.0	6.3	6.3	5.7	5.7	6.3	5.7	5.7	5.7	5.9
DLFPS-FRR/3069	7.0	5.7	5.7	5.3	6.0	6.0	6.0	6.0	5.3	5.7	6.3	5.7	5.7	5.3	5.7	5.7	5.7	5.3	5.7
BOREAL	7.0	5.3	5.3	5.7	5.3	6.3	5.3	5.7	5.0	5.0	5.7	5.7	5.3	5.3	5.3	5.3	5.3	5.7	5.4
LSD VALUE	0.5	1.1	1.4	0.8	0.8	0.6	0.8	1.3	0.8	2.2	1.9	1.9	1.1	1.2	0.9	1.2	1.0	1.3	0.6
C.V. (%)	4.0	7.9	9.4	6.6	7.4	5.6	6.2	8.1	7.1	11.9	10.3	10.5	8.1	9.0	7.0	8.6	7.4	8.7	4.9

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	DOLLAR SPOT	COLOR DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DLFPS-FL/3060	7.7	5.3	6.0	5.3	6.0	6.7	6.0	5.7	6.0	5.7	6.0	5.3	6.3	5.7	5.0	5.7	5.0	5.3	5.6
MNHD-14	7.7	5.7	5.3	5.3	5.3	7.0	6.3	5.7	5.7	6.3	6.0	5.0	5.3	5.3	5.3	5.0	5.3	5.7	5.6
DLFPS-FL/3066	7.3	5.3	5.3	5.3	6.0	7.3	6.0	5.7	5.7	5.3	5.7	5.0	5.3	5.3	5.0	5.7	5.7	5.3	5.5
JETTY (PPG-FL 106)	7.7	5.3	5.3	5.7	6.0	6.0	5.7	5.7	5.0	5.0	6.0	5.3	5.7	5.7	5.7	5.7	5.3	5.3	5.5
SWORD	8.0	4.7	5.3	5.3	5.3	7.0	5.7	5.7	5.3	5.3	5.3	5.0	5.3	5.0	5.7	5.7	5.7	6.0	5.5
RESOLUTE (7H7)	7.0	5.0	5.3	5.3	6.0	6.7	5.7	5.3	5.7	5.3	5.7	5.3	5.7	5.3	5.7	5.3	5.0	5.3	5.4
BEACON	6.7	5.0	4.7	5.0	5.3	6.3	6.0	5.7	5.3	4.7	4.7	5.0	5.3	5.3	5.3	5.3	5.3	5.7	5.3
GLADIATOR (TH456)	7.7	5.3	5.3	5.0	5.3	7.0	6.0	5.7	5.7	4.3	5.3	5.3	5.0	5.0	5.3	5.3	5.3	5.3	5.3
QUATRO	7.7	5.7	5.0	5.0	7.0	7.3	6.0	6.0	6.0	5.3	5.3	5.0	4.7	4.7	5.0	4.7	4.7	5.7	5.3
MINIMUS	7.0	5.7	4.7	5.3	5.7	6.3	5.7	5.0	5.0	5.0	5.0	4.7	5.0	5.3	5.3	5.3	5.3	5.0	5.1
PST-4BND	6.0	5.0	5.0	5.0	6.0	6.3	5.7	5.3	4.7	5.0	4.7	5.0	5.7	5.3	5.3	5.0	5.0	5.0	5.1
LSD VALUE	0.9	1.7	1.7	1.9	0.9	0.7	1.1	1.7	1.0	1.5	1.9	1.1	1.6	1.3	2.0	1.7	1.3	2.0	1.0
C.V. (%)	6.9	11.8	12.4	12.0	8.2	5.8	6.8	10.6	9.1	12.8	14.0	8.0	11.9	9.2	12.6	11.9	9.8	12.6	6.3

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/
2019 DATA

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

NAME	GENETIC COLOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	DOLLAR SPOT	COLOR DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
SEAMIST (PPG-FRT 101)	7.0	6.7	7.0	6.3	5.7	6.3	7.0	6.3	6.7	6.7	7.7	7.0	6.3	6.7	7.0	6.3	6.3	6.3	6.7
BEUDIN	6.3	6.7	6.7	6.3	6.0	7.0	7.0	6.7	6.7	7.3	7.0	6.7	6.0	6.3	6.3	6.3	6.3	6.7	6.6
BARPEARL (BAR FRT 5002)	7.0	7.0	6.0	6.3	5.3	6.3	6.0	7.0	7.0	6.7	6.7	6.3	5.7	5.7	6.3	6.3	6.7	6.0	6.4
SEABREEZE GT	7.0	6.0	5.7	5.7	6.0	6.0	5.7	5.7	5.3	5.7	6.0	5.3	6.0	5.7	5.7	5.7	5.7	6.0	5.7
LSD VALUE	0.6	1.0	0.7	1.1	1.1	1.0	0.6	1.2	1.0	1.4	1.4	0.8	1.7	1.3	2.1	1.1	1.3	0.8	0.8
C.V. (%)	4.2	6.7	5.3	8.1	8.2	6.9	4.5	8.6	7.3	9.8	9.8	5.9	12.4	9.5	14.9	8.1	9.6	6.0	6.0

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.

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TABLE 12A.              GENETIC COLOR RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                  2019 DATA

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


        NAME                        MI1    MI2    MN1    MN2    NC1    NJ2    MEAN

        CASTLE (RAD-FC32)           8.0    7.7    7.0    7.7    8.0    7.3    7.6
        RAD-FR33R                   7.3    7.3    7.3    6.7    8.0    7.3    7.3
        RESOLUTE (7H7)              7.0    7.3    7.3    8.3    8.0    6.0    7.3
        RAD-FC44                    7.0    8.0    7.0    6.3    8.0    7.3    7.3
        JETTY (PPG-FL 106)          6.7    7.3    7.0    7.7    .      7.7    7.3
        RAD-FR47                    7.0    6.7    7.0    6.3    8.0    8.0    7.2
        PST-4ED4                    7.0    7.3    6.0    6.3    8.0    8.0    7.1
        KENT                        7.0    6.3    6.3    6.3    8.0    8.3    7.1
        PST-4RUE                    7.0    7.0    7.0    6.0    7.5    7.3    7.0
        PST-4DR4                    7.0    6.7    6.3    5.0    8.0    8.7    6.9
        PST-4BND                    7.0    6.7    6.7    6.7    .      7.7    6.9
        PST-4BEN                    7.0    7.0    6.3    5.7    8.0    7.3    6.9
        SWORD                       7.0    6.3    6.3    7.7    7.0    7.0    6.9
        CARDINAL II (PPG-FRR 111)   7.0    7.0    6.0    6.3    8.0    6.7    6.8
        MOMENTUM (PPG-FRC 114)      7.0    7.7    7.0    6.0    7.7    5.3    6.8
        DLFPS-FL/3060               6.7    6.3    6.3    7.7    7.0    6.3    6.7
        NAVIGATOR II                7.3    7.0    6.3    5.3    7.3    7.0    6.7
        QUATRO                      6.7    7.0    6.3    6.7    7.0    6.3    6.7
        DLF-FRR 6162                7.0    6.7    5.7    5.7    8.0    7.0    6.7
        DLFPS-FL/3066               7.0    6.7    7.0    7.7    7.0    4.7    6.7
        MINIMUS                     6.7    6.0    6.3    7.3    8.0    5.7    6.7
        MNHD-14                     6.7    6.3    6.7    8.3    .      5.0    6.6
        DLFPS-FRR/3068              7.0    6.3    6.0    5.7    8.0    6.3    6.6
        SPINDRIFT (DLFPS-FRC/3060)  7.0    6.7    6.0    6.0    8.0    5.3    6.5
        MARVEL                      7.0    6.7    5.7    5.3    8.0    6.3    6.5
        7C34                        7.0    6.7    6.0    5.0    7.7    6.7    6.5
        DLFPS-FRR/3069              7.0    6.3    5.7    5.0    7.7    7.3    6.5
        BAR VV-VP3-CT               7.0    7.7    5.7    5.7    7.3    5.3    6.4
        DLF-FRC 3338                7.0    7.3    5.3    5.7    7.7    5.3    6.4
        RADAR                       7.0    7.7    6.0    5.0    7.3    4.3    6.2
        SANDRINE (BAR 6FR 126)      7.0    6.0    5.0    5.3    7.0    6.7    6.2
        BOREAL                      6.7    6.3    4.7    4.7    7.0    7.3    6.1
        COMPASS II (PPG-FRC 113)    7.0    7.0    5.7    5.3    7.3    4.0    6.1
        BOLSTER (C14-OS3)           7.0    7.3    5.3    5.3    7.7    3.7    6.1
        BEACON                      6.0    6.0    5.0    6.3    7.5    4.7    5.9
        LEEWARD (DLFPS-FRC/3057)    7.0    7.3    5.3    5.7    7.5    2.7    5.9
        CASCADE                     6.7    6.0    5.0    5.0    7.0    5.7    5.9
        GLADIATOR (TH456)           6.3    6.3    5.3    7.0    7.0    3.0    5.8
        SEABREEZE GT                6.3    6.0    4.3    4.7    .      7.0    5.7
        BEUDIN                      6.0    6.3    3.7    3.0    7.0    7.0    5.5
        SEAMIST (PPG-FRT 101)       6.7    6.0    5.3    4.0    7.3    3.7    5.5
        BARPEARL (BAR FRT 5002)     6.0    6.0    4.0    3.7    .      7.0    5.3


        LSD VALUE                   0.5    0.8    1.1    0.8    1.1    2.5    0.6
        C.V. (%)                    4.5    7.3   11.1    8.7    6.6   25.3   12.5
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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.

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TABLE 12B.   GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                 2019 DATA

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

NAME	MI1	MI2	MN1	MN2	NC1	NJ2	MEAN
CASTLE (RAD-FC32)	8.0	7.7	7.0	7.7	8.0	7.3	7.6
RAD-FC44	7.0	8.0	7.0	6.3	8.0	7.3	7.3
MOMENTUM (PPG-FRC 114)	7.0	7.7	7.0	6.0	7.7	5.3	6.8
SPINDRIFT (DLFPS-FRC/3060)	7.0	6.7	6.0	6.0	8.0	5.3	6.5
BAR VV-VP3-CT	7.0	7.7	5.7	5.7	7.3	5.3	6.4
DLF-FRC 3338	7.0	7.3	5.3	5.7	7.7	5.3	6.4
RADAR	7.0	7.7	6.0	5.0	7.3	4.3	6.2
SANDRINE (BAR 6FR 126)	7.0	6.0	5.0	5.3	7.0	6.7	6.2
COMPASS II (PPG-FRC 113)	7.0	7.0	5.7	5.3	7.3	4.0	6.1
BOLSTER (C14-OS3)	7.0	7.3	5.3	5.3	7.7	3.7	6.1
LEEWARD (DLFPS-FRC/3057)	7.0	7.3	5.3	5.7	7.5	2.7	5.9
CASCADE	6.7	6.0	5.0	5.0	7.0	5.7	5.9
LSD VALUE	0.3	0.8	1.0	0.8	1.1	2.6	0.5
C.V. (%)	2.4	6.6	10.6	8.2	8.0	30.4	12.4

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 12C.   GENETIC COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                 2019 DATA

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

NAME	MI1	MI2	MN1	MN2	NC1	NJ2	MEAN
RAD-FR33R	7.3	7.3	7.3	6.7	8.0	7.3	7.3
RAD-FR47	7.0	6.7	7.0	6.3	8.0	8.0	7.2
PST-4ED4	7.0	7.3	6.0	6.3	8.0	8.0	7.1
KENT	7.0	6.3	6.3	6.3	8.0	8.3	7.1
PST-4RUE	7.0	7.0	7.0	6.0	7.5	7.3	7.0
PST-4DR4	7.0	6.7	6.3	5.0	8.0	8.7	6.9
PST-4BEN	7.0	7.0	6.3	5.7	8.0	7.3	6.9
CARDINAL II (PPG-FRR 111)	7.0	7.0	6.0	6.3	8.0	6.7	6.8
NAVIGATOR II	7.3	7.0	6.3	5.3	7.3	7.0	6.7
DLF-FRR 6162	7.0	6.7	5.7	5.7	8.0	7.0	6.7
DLFPS-FRR/3068	7.0	6.3	6.0	5.7	8.0	6.3	6.6
MARVEL	7.0	6.7	5.7	5.3	8.0	6.3	6.5
7C34	7.0	6.7	6.0	5.0	7.7	6.7	6.5
DLFPS-FRR/3069	7.0	6.3	5.7	5.0	7.7	7.3	6.5
BOREAL	6.7	6.3	4.7	4.7	7.0	7.3	6.1
LSD VALUE	0.4	0.8	1.0	0.9	0.7	2.4	0.5
C.V. (%)	3.7	7.3	10.3	9.8	4.5	20.5	11.3

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

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

TABLE 12D.   GENETIC COLOR RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                              2019 DATA

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

NAME	MI1	MI2	MN1	MN2	NC1	NJ2	MEAN
RESOLUTE (7H7)	7.0	7.3	7.3	8.3	8.0	6.0	7.3
JETTY (PPG-FL 106)	6.7	7.3	7.0	7.7	.	7.7	7.3
PST-4BND	7.0	6.7	6.7	6.7	.	7.7	6.9
SWORD	7.0	6.3	6.3	7.7	7.0	7.0	6.9
DLFPS-FL/3060	6.7	6.3	6.3	7.7	7.0	6.3	6.7
QUATRO	6.7	7.0	6.3	6.7	7.0	6.3	6.7
DLFPS-FL/3066	7.0	6.7	7.0	7.7	7.0	4.7	6.7
MINIMUS	6.7	6.0	6.3	7.3	8.0	5.7	6.7
MNHD-14	6.7	6.3	6.7	8.3	.	5.0	6.6
BEACON	6.0	6.0	5.0	6.3	7.5	4.7	5.9
GLADIATOR (TH456)	6.3	6.3	5.3	7.0	7.0	3.0	5.8
LSD VALUE	0.7	0.9	1.2	0.9	1.9	2.8	0.7
C.V. (%)	6.4	8.8	11.2	7.4	9.7	30.4	14.1

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 12E.   GENETIC COLOR RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                              2019 DATA

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

NAME	MI1	MI2	MN1	MN2	NC1	NJ2	MEAN
SEABREEZE GT	6.3	6.0	4.3	4.7	.	7.0	5.7
BEUDIN	6.0	6.3	3.7	3.0	7.0	7.0	5.5
SEAMIST (PPG-FRT 101)	6.7	6.0	5.3	4.0	7.3	3.7	5.5
BARPEARL (BAR FRT 5002)	6.0	6.0	4.0	3.7	.	7.0	5.3
LSD VALUE	0.7	0.5	1.1	0.7	1.3	1.9	0.5
C.V. (%)	6.5	4.7	16.3	10.6	8.1	18.7	12.1

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

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

SPRING GREENUP RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                     2019 DATA

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

NAME	CT1	NC1	ND1	NJ1	MEAN
DLF-FRC 3338	6.7	7.3	5.3	6.3	6.4
BAR VV-VP3-CT	6.7	6.3	5.0	7.0	6.3
SPINDRIFT (DLFPS-FRC/3060)	6.7	6.5	5.0	5.5	5.9
MOMENTUM (PPG-FRC 114)	6.7	5.7	5.0	6.3	5.9
BOLSTER (C14-OS3)	6.3	6.3	6.0	5.0	5.9
BOREAL	5.7	6.0	6.0	5.7	5.8
RAD-FR33R	5.7	5.5	5.0	7.0	5.8
RADAR	7.3	7.0	4.3	4.5	5.8
NAVIGATOR II	5.3	6.0	6.0	5.7	5.8
COMPASS II (PPG-FRC 113)	6.7	5.3	5.0	5.7	5.7
MARVEL	5.7	6.0	5.0	6.0	5.7
RAD-FR47	5.7	6.0	6.0	5.0	5.7
SEAMIST (PPG-FRT 101)	6.7	6.0	5.0	5.0	5.7
RAD-FC44	6.3	7.0	5.0	4.3	5.7
DLFPS-FRR/3068	5.3	6.3	5.0	5.5	5.5
CARDINAL II (PPG-FRR 111)	5.7	6.0	5.0	5.3	5.5
CASCADE	6.0	5.3	5.0	5.7	5.5
CASTLE (RAD-FC32)	5.7	6.0	5.7	4.5	5.5
7C34	5.7	6.3	5.0	4.7	5.4
PST-4BEN	5.7	5.0	6.0	5.0	5.4
DLFPS-FRR/3069	5.3	5.5	5.7	5.0	5.4
PST-4RUE	5.7	5.5	6.0	4.3	5.4
LEEWARD (DLFPS-FRC/3057)	6.3	5.0	5.0	5.0	5.3
KENT	5.3	5.0	6.0	5.0	5.3
PST-4DR4	5.3	5.0	5.0	6.0	5.3
SANDRINE (BAR 6FR 126)	4.7	6.0	5.0	.	5.2
DLF-FRR 6162	5.7	5.0	6.0	4.0	5.2
SEABREEZE GT	5.3	.	4.0	6.0	5.1
QUATRO	5.0	5.0	6.0	4.3	5.1
BEUDIN	4.3	7.0	6.0	2.7	5.0
RESOLUTE (7H7)	5.0	6.0	6.0	2.7	4.9
MINIMUS	4.0	4.0	6.0	4.3	4.6
PST-4ED4	5.0	5.3	4.0	4.0	4.6
SWORD	5.0	.	5.0	3.5	4.5
DLFPS-FL/3060	4.7	4.0	6.0	2.7	4.3
BARPEARL (BAR FRT 5002)	4.0	.	6.0	3.0	4.3
DLFPS-FL/3066	4.3	.	6.0	2.7	4.3
JETTY (PPG-FL 106)	5.0	.	5.0	3.0	4.3
BEACON	4.3	5.3	5.0	2.5	4.3
MNHD-14	4.7	.	6.0	2.0	4.2
GLADIATOR (TH456)	4.3	4.0	6.0	1.7	4.0
PST-4BND	2.7	.	6.0	1.5	3.4
LSD VALUE	1.3	3.3	0.3	2.1	0.8
C.V. (%)	15.4	27.0	3.3	25.5	17.9

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

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

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TABLE 13B.              SPRING GREENUP RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                      2019 DATA


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


            NAME                          CT1    NC1    ND1    NJ1    MEAN

            DLF-FRC 3338                  6.7    7.3    5.3    6.3    6.4
            BAR VV-VP3-CT                 6.7    6.3    5.0    7.0    6.3
            SPINDRIFT (DLFPS-FRC/3060)    6.7    6.5    5.0    5.5    5.9
            MOMENTUM (PPG-FRC 114)        6.7    5.7    5.0    6.3    5.9
            BOLSTER (C14-OS3)             6.3    6.3    6.0    5.0    5.9
            RADAR                         7.3    7.0    4.3    4.5    5.8
            COMPASS II (PPG-FRC 113)      6.7    5.3    5.0    5.7    5.7
            RAD-FC44                      6.3    7.0    5.0    4.3    5.7
            CASCADE                       6.0    5.3    5.0    5.7    5.5
            CASTLE (RAD-FC32)             5.7    6.0    5.7    4.5    5.5
            LEEWARD (DLFPS-FRC/3057)      6.3    5.0    5.0    5.0    5.3
            SANDRINE (BAR 6FR 126)        4.7    6.0    5.0     .     5.2

            LSD VALUE                     1.3    2.7    0.5    1.8    0.8
            C.V. (%)                     12.6   22.5    5.6   18.3   15.6

  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 13C.            SPRING GREENUP RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                      2019 DATA


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


            NAME                          CT1    NC1    ND1    NJ1    MEAN

            BOREAL                        5.7    6.0    6.0    5.7    5.8
            RAD-FR33R                     5.7    5.5    5.0    7.0    5.8
            NAVIGATOR II                  5.3    6.0    6.0    5.7    5.8
            MARVEL                        5.7    6.0    5.0    6.0    5.7
            RAD-FR47                      5.7    6.0    6.0    5.0    5.7
            DLFPS-FRR/3068                5.3    6.3    5.0    5.5    5.5
            CARDINAL II (PPG-FRR 111)     5.7    6.0    5.0    5.3    5.5
            7C34                          5.7    6.3    5.0    4.7    5.4
            PST-4BEN                      5.7    5.0    6.0    5.0    5.4
            DLFPS-FRR/3069                5.3    5.5    5.7    5.0    5.4
            PST-4RUE                      5.7    5.5    6.0    4.3    5.4
            KENT                          5.3    5.0    6.0    5.0    5.3
            PST-4DR4                      5.3    5.0    5.0    6.0    5.3
            DLF-FRR 6162                  5.7    5.0    6.0    4.0    5.2
            PST-4ED4                      5.0    5.3    4.0    4.0    4.6

            LSD VALUE                     1.1    3.6    0.2    1.6    0.8
            C.V. (%)                     13.0   31.5    2.7   17.6   17.3

  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.
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TABLE 13D.              SPRING GREENUP RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                    2019 DATA

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

               NAME                CT1    NC1    ND1    NJ1    MEAN

               QUATRO              5.0    5.0     6     4.3    5.1
               RESOLUTE (7H7)      5.0    6.0     6     2.7    4.9
               MINIMUS             4.0    4.0     6     4.3    4.6
               SWORD               5.0     .      5     3.5    4.5
               DLFPS-FL/3060       4.7    4.0     6     2.7    4.3
               DLFPS-FL/3066       4.3     .      6     2.7    4.3
               JETTY (PPG-FL 106)  5.0     .      5     3.0    4.3
               BEACON              4.3    5.3     5     2.5    4.3
               MNHD-14             4.7     .      6     2.0    4.2
               GLADIATOR (TH456)   4.3    4.0     6     1.7    4.0
               PST-4BND            2.7     .      6     1.5    3.4

               LSD VALUE           1.7    3.1     0     1.9    0.8
               C.V. (%)           23.4   26.4     0    39.7   20.3
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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.


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 TABLE 13E.              SPRING GREENUP RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                    2019 DATA

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

               NAME                   CT1    NC1    ND1    NJ1    MEAN

               SEAMIST (PPG-FRT 101)  6.7    6.0     5     5.0    5.7
               SEABREEZE GT           5.3     .      4     6.0    5.1
               BEUDIN                 4.3    7.0     6     2.7    5.0
               BARPEARL (BAR FRT 5002) 4.0    .      6     3.0    4.3

               LSD VALUE              1.1    2.3     0     4.7    1.1
               C.V. (%)              13.9   15.4     0    55.4   23.5
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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.

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TABLE 14A.                    LEAF TEXTURE RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                          2019 DATA

                             LEAF TEXTURE RATINGS 1-9; 9=VERY FINE  2/


                    NAME                              NC1

                    DLF-FRC 3338                      8.3
                    7C34                              8.0
                    BAR VV-VP3-CT                     8.0
                    BEACON                            8.0
                    BEUDIN                            8.0
                    BOLSTER (C14-OS3)                 8.0
                    BOREAL                            8.0
                    CARDINAL II (PPG-FRR 111)         8.0
                    CASCADE                           8.0
                    CASTLE (RAD-FC32)                 8.0
                    COMPASS II (PPG-FRC 113)          8.0
                    DLF-FRR 6162                      8.0
                    DLFPS-FL/3060                     8.0
                    DLFPS-FL/3066                     8.0
                    LEEWARD (DLFPS-FRC/3057)          8.0
                    SPINDRIFT (DLFPS-FRC/3060)        8.0
                    DLFPS-FRR/3068                    8.0
                    GLADIATOR (TH456)                 8.0
                    KENT                              8.0
                    MARVEL                            8.0
                    MINIMUS                           8.0
                    MOMENTUM (PPG-FRC 114)            8.0
                    NAVIGATOR II                      8.0
                    PST-4BEN                          8.0
                    PST-4DR4                          8.0
                    PST-4ED4                          8.0
                    QUATRO                            8.0
                    RAD-FC44                          8.0
                    RAD-FR33R                         8.0
                    RAD-FR47                          8.0
                    RADAR                             8.0
                    RESOLUTE (7H7)                    8.0
                    SANDRINE (BAR 6FR 126)            8.0
                    SEAMIST (PPG-FRT 101)             8.0
                    PST-4RUE                          7.5
                    SWORD                             7.0

                    LSD VALUE                         0.3
                    C.V. (%)                          2.0
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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.

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TABLE 14B.              LEAF TEXTURE RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                  2019 DATA

                        LEAF TEXTURE RATINGS 1-9; 9=VERY FINE  2/


                  NAME                          NC1

                  DLF-FRC 3338                  8.3
                  BAR VV-VP3-CT                 8.0
                  BOLSTER (C14-OS3)             8.0
                  CASCADE                       8.0
                  CASTLE (RAD-FC32)             8.0
                  COMPASS II (PPG-FRC 113)      8.0
                  LEEWARD (DLFPS-FRC/3057)      8.0
                  SPINDRIFT (DLFPS-FRC/3060)    8.0
                  MOMENTUM (PPG-FRC 114)        8.0
                  RAD-FC44                      8.0
                  RADAR                         8.0
                  SANDRINE (BAR 6FR 126)        8.0

                  LSD VALUE                     0.3
                  C.V. (%)                      2.3
```

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.


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 TABLE 14C.            LEAF TEXTURE RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                  2019 DATA

                        LEAF TEXTURE RATINGS 1-9; 9=VERY FINE  2/


                  NAME                          NC1

                  7C34                          8.0
                  BOREAL                        8.0
                  CARDINAL II (PPG-FRR 111)     8.0
                  DLF-FRR 6162                  8.0
                  DLFPS-FRR/3068                8.0
                  DLFPS-FRR/3069                8.0
                  KENT                          8.0
                  MARVEL                        8.0
                  NAVIGATOR II                  8.0
                  PST-4BEN                      8.0
                  PST-4DR4                      8.0
                  PST-4ED4                      8.0
                  RAD-FR33R                     8.0
                  RAD-FR47                      8.0
                  PST-4RUE                      7.5

                  LSD VALUE                     0.3
                  C.V. (%)                      2.0
```

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 14D.   LEAF TEXTURE RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                      2019 DATA

                          LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

                              NAME   NC1

                              BEACON   8
                              DLFPS-FL/3060   8
                              DLFPS-FL/3066   8
                              GLADIATOR (TH456)   8
                              MINIMUS   8
                              QUATRO   8
                              RESOLUTE (7H7)   8
                              SWORD   7

                              LSD VALUE   0
                              C.V. (%)   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 14E.   LEAF TEXTURE RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                      2019 DATA

                          LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

                              NAME   NC1

                              BEUDIN   8
                              SEAMIST (PPG-FRT 101) 8

                              LSD VALUE   0
                              C.V. (%)   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.

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	NC1	ND1	MEAN
BEUDIN	7.0	6	6.5
PST-4RUE	7.0	6	6.5
BAR VV-VP3-CT	6.3	6	6.2
BARPEARL (BAR FRT 5002)	.	6	6.0
BOLSTER (C14-OS3)	7.0	5	6.0
CASTLE (RAD-FC32)	7.0	5	6.0
DLF-FRR 6162	6.0	6	6.0
DLFPS-FL/3060	6.0	6	6.0
DLFPS-FL/3066	.	6	6.0
SPINDRIFT (DLFPS-FRC/3060)	6.0	6	6.0
GLADIATOR (TH456)	6.0	6	6.0
MNHD-14	.	6	6.0
QUATRO	6.0	6	6.0
RAD-FR47	6.0	6	6.0
RESOLUTE (7H7)	6.0	6	6.0
SANDRINE (BAR 6FR 126)	7.0	5	6.0
MOMENTUM (PPG-FRC 114)	6.7	5	5.8
RADAR	6.7	5	5.8
BOREAL	5.5	6	5.8
KENT	5.5	6	5.8
PST-4DR4	6.5	5	5.8
RAD-FR33R	6.5	5	5.8
CARDINAL II (PPG-FRR 111)	6.3	5	5.7
COMPASS II (PPG-FRC 113)	7.3	4	5.7
PST-4BEN	6.3	5	5.7
7C34	6.0	5	5.5
BEACON	6.0	5	5.5
DLF-FRC 3338	7.0	4	5.5
DLFPS-FRR/3069	6.0	5	5.5
MARVEL	6.0	5	5.5
MINIMUS	6.0	5	5.5
RAD-FC44	7.0	4	5.5
DLFPS-FRR/3068	5.7	5	5.3
NAVIGATOR II	5.5	5	5.3
SEAMIST (PPG-FRT 101)	6.3	4	5.2
LEEWARD (DLFPS-FRC/3057)	6.0	4	5.0
JETTY (PPG-FL 106)	.	5	5.0
PST-4BND	.	5	5.0
SWORD	.	5	5.0
CASCADE	5.7	4	4.8
PST-4ED4	5.7	4	4.8
SEABREEZE GT	.	4	4.0
LSD VALUE	1.5	0	0.5
C.V. (%)	11.3	0	7.0

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

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

SPRING DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                2019 DATA

                    DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

              NAME   NC1   ND1   MEAN

              BAR VV-VP3-CT   6.3   6   6.2
              BOLSTER (C14-OS3)   7.0   5   6.0
              CASTLE (RAD-FC32)   7.0   5   6.0
              SPINDRIFT (DLFPS-FRC/3060)   6.0   6   6.0
              SANDRINE (BAR 6FR 126)   7.0   5   6.0
              MOMENTUM (PPG-FRC 114)   6.7   5   5.8
              RADAR   6.7   5   5.8
              COMPASS II (PPG-FRC 113)   7.3   4   5.7
              DLF-FRC 3338   7.0   4   5.5
              RAD-FC44   7.0   4   5.5
              LEEWARD (DLFPS-FRC/3057)   6.0   4   5.0
              CASCADE   5.7   4   4.8

              LSD VALUE   1.2   0   0.4
              C.V. (%)   8.7   0   6.4

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 15C.   SPRING DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                2019 DATA

                    DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

              NAME   NC1   ND1   MEAN

              PST-4RUE   7.0   6   6.5
              DLF-FRR 6162   6.0   6   6.0
              RAD-FR47   6.0   6   6.0
              BOREAL   5.5   6   5.8
              KENT   5.5   6   5.8
              PST-4DR4   6.5   5   5.8
              RAD-FR33R   6.5   5   5.8
              CARDINAL II (PPG-FRR 111)   6.3   5   5.7
              PST-4BEN   6.3   5   5.7
              7C34   6.0   5   5.5
              DLFPS-FRR/3069   6.0   5   5.5
              MARVEL   6.0   5   5.5
              DLFPS-FRR/3068   5.7   5   5.3
              NAVIGATOR II   5.5   5   5.3
              PST-4ED4   5.7   4   4.8

              LSD VALUE   1.7   0   0.6
              C.V. (%)   13.4   0   8.6

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 15D.   SPRING DENSITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                 2019 DATA

                    DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

                NAME   NC1   ND1   MEAN

                DLFPS-FL/3060   6.0   6   6.0
                DLFPS-FL/3066   .   6   6.0
                GLADIATOR (TH456)   6.0   6   6.0
                MNHD-14   .   6   6.0
                QUATRO   6.0   6   6.0
                RESOLUTE (7H7)   6.0   6   6.0
                BEACON   6.0   5   5.5
                MINIMUS   6.0   5   5.5
                JETTY (PPG-FL 106)   .   5   5.0
                PST-4BND   .   5   5.0
                SWORD   .   5   5.0

                LSD VALUE   2.0   0   0.4
                C.V. (%)   13.6   0   5.0

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 15E.   SPRING DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                 2019 DATA

                    DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

                NAME   NC1   ND1   MEAN

                BEUDIN   7.0   6   6.5
                BARPEARL (BAR FRT 5002) .   6   6.0
                SEAMIST (PPG-FRT 101)   6.3   4   5.2
                SEABREEZE GT   .   4   4.0

                LSD VALUE   1.3   0   0.4
                C.V. (%)   8.7   0   4.6

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

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

SUMMER DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                      2019 DATA

                        DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	IN1	NC1	ND1	MEAN
BARPEARL (BAR FRT 5002)	.	.	7.0	7.0
DLFPS-FL/3066	5.7	.	7.0	6.3
BOLSTER (C14-OS3)	6.7	6.0	6.0	6.2
GLADIATOR (TH456)	6.0	5.5	7.0	6.2
PST-4RUE	5.0	6.5	7.0	6.2
PST-4BEN	5.7	6.3	6.0	6.0
RAD-FC44	6.0	6.0	6.0	6.0
COMPASS II (PPG-FRC 113)	7.0	5.7	5.0	5.9
MINIMUS	5.5	6.0	6.0	5.8
CARDINAL II (PPG-FRR 111)	5.7	5.7	6.0	5.8
DLF-FRR 6162	5.3	6.0	6.0	5.8
QUATRO	5.3	5.0	7.0	5.8
RAD-FR33R	5.7	5.5	6.0	5.7
LEEWARD (DLFPS-FRC/3057)	7.0	5.0	5.0	5.7
MOMENTUM (PPG-FRC 114)	6.0	5.3	5.7	5.7
RAD-FR47	6.0	4.0	7.0	5.7
RADAR	6.3	5.7	5.0	5.7
JETTY (PPG-FL 106)	5.3	.	6.0	5.7
MNHD-14	5.0	.	6.3	5.7
SEAMIST (PPG-FRT 101)	7.0	4.7	5.0	5.6
BAR VV-VP3-CT	6.0	4.5	6.0	5.5
BEACON	5.0	5.5	6.0	5.5
SPINDRIFT (DLFPS-FRC/3060)	6.5	4.0	6.0	5.5
DLFPS-FRR/3068	5.5	5.0	6.0	5.5
PST-4BND	5.0	.	6.0	5.5
SANDRINE (BAR 6FR 126)	5.0	.	6.0	5.5
SEABREEZE GT	6.0	.	5.0	5.5
DLF-FRC 3338	6.0	5.3	5.0	5.4
KENT	5.7	4.5	6.0	5.4
7C34	5.0	5.0	6.0	5.3
BEUDIN	6.0	4.0	6.0	5.3
PST-4DR4	5.0	5.0	6.0	5.3
RESOLUTE (7H7)	5.0	4.0	7.0	5.3
CASTLE (RAD-FC32)	5.7	4.0	6.0	5.2
NAVIGATOR II	5.7	4.0	6.0	5.2
BOREAL	4.5	4.5	6.0	5.0
PST-4ED4	5.0	5.0	5.0	5.0
SWORD	5.0	.	5.0	5.0
CASCADE	5.0	4.7	5.0	4.9
DLFPS-FL/3060	4.7	4.0	6.0	4.9
DLFPS-FRR/3069	5.3	4.0	5.0	4.8
MARVEL	4.0	4.0	6.0	4.7
LSD VALUE	1.4	2.0	0.2	0.7
C.V. (%)	14.2	18.8	2.1	11.3

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

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

TABLE 16B.   SUMMER DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2019 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	IN1	NC1	ND1	MEAN
BOLSTER (C14-OS3)	6.7	6.0	6.0	6.2
RAD-FC44	6.0	6.0	6.0	6.0
COMPASS II (PPG-FRC 113)	7.0	5.7	5.0	5.9
LEEWARD (DLFPS-FRC/3057)	7.0	5.0	5.0	5.7
MOMENTUM (PPG-FRC 114)	6.0	5.3	5.7	5.7
RADAR	6.3	5.7	5.0	5.7
BAR VV-VP3-CT	6.0	4.5	6.0	5.5
SPINDRIFT (DLFPS-FRC/3060)	6.5	4.0	6.0	5.5
SANDRINE (BAR 6FR 126)	5.0	.	6.0	5.5
DLF-FRC 3338	6.0	5.3	5.0	5.4
CASTLE (RAD-FC32)	5.7	4.0	6.0	5.2
CASCADE	5.0	4.7	5.0	4.9
LSD VALUE	1.6	1.6	0.3	0.7
C.V. (%)	15.3	15.9	3.0	12.2

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 16C.   SUMMER DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2019 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	IN1	NC1	ND1	MEAN
PST-4RUE	5.0	6.5	7	6.2
PST-4BEN	5.7	6.3	6	6.0
CARDINAL II (PPG-FRR 111)	5.7	5.7	6	5.8
DLF-FRR 6162	5.3	6.0	6	5.8
RAD-FR33R	5.7	5.5	6	5.7
RAD-FR47	6.0	4.0	7	5.7
DLFPS-FRR/3068	5.5	5.0	6	5.5
KENT	5.7	4.5	6	5.4
7C34	5.0	5.0	6	5.3
PST-4DR4	5.0	5.0	6	5.3
NAVIGATOR II	5.7	4.0	6	5.2
BOREAL	4.5	4.5	6	5.0
PST-4ED4	5.0	5.0	5	5.0
DLFPS-FRR/3069	5.3	4.0	5	4.8
MARVEL	4.0	4.0	6	4.7
LSD VALUE	1.0	2.3	0	0.6
C.V. (%)	11.6	22.0	0	11.7

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

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

TABLE 16D.   SUMMER DENSITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                        2019 DATA

                        DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	IN1	NC1	ND1	MEAN
DLFPS-FL/3066	5.7	.	7.0	6.3
GLADIATOR (TH456)	6.0	5.5	7.0	6.2
MINIMUS	5.5	6.0	6.0	5.8
QUATRO	5.3	5.0	7.0	5.8
JETTY (PPG-FL 106)	5.3	.	6.0	5.7
MNHD-14	5.0	.	6.3	5.7
BEACON	5.0	5.5	6.0	5.5
PST-4BND	5.0	.	6.0	5.5
RESOLUTE (7H7)	5.0	4.0	7.0	5.3
SWORD	5.0	.	5.0	5.0
DLFPS-FL/3060	4.7	4.0	6.0	4.9
LSD VALUE	1.7	1.8	0.3	0.7
C.V. (%)	17.1	14.1	2.8	10.4

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 16E.   SUMMER DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                        2019 DATA

                        DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	IN1	NC1	ND1	MEAN
BARPEARL (BAR FRT 5002)	.	.	7	7.0
SEAMIST (PPG-FRT 101)	7.0	4.7	5	5.6
SEABREEZE GT	6.0	.	5	5.5
BEUDIN	6.0	4.0	6	5.3
LSD VALUE	1.3	1.3	0	0.5
C.V. (%)	11.2	13.3	0	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.

FALL DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                 2019 DATA

                        DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

                        NAME   ND1

                        GLADIATOR (TH456)   8.0
                        PST-4RUE   8.0
                        RESOLUTE (7H7)   8.0
                        MNHD-14   7.3
                        QUATRO   7.3
                        7C34   7.0
                        BAR VV-VP3-CT   7.0
                        BARPEARL (BAR FRT 5002)   7.0
                        BEUDIN   7.0
                        BOLSTER (C14-OS3)   7.0
                        BOREAL   7.0
                        DLF-FRR 6162   7.0
                        DLFPS-FL/3060   7.0
                        DLFPS-FL/3066   7.0
                        SPINDRIFT (DLFPS-FRC/3060)   7.0
                        JETTY (PPG-FL 106)   7.0
                        KENT   7.0
                        MINIMUS   7.0
                        PST-4BND   7.0
                        RAD-FR33R   7.0
                        RAD-FR47   7.0
                        BEACON   6.3
                        CARDINAL II (PPG-FRR 111)   6.0
                        CASCADE   6.0
                        CASTLE (RAD-FC32)   6.0
                        COMPASS II (PPG-FRC 113)   6.0
                        DLF-FRC 3338   6.0
                        LEEWARD (DLFPS-FRC/3057)   6.0
                        DLFPS-FRR/3068   6.0
                        DLFPS-FRR/3069   6.0
                        MARVEL   6.0
                        MOMENTUM (PPG-FRC 114)   6.0
                        NAVIGATOR II   6.0
                        PST-4BEN   6.0
                        PST-4DR4   6.0
                        PST-4ED4   6.0
                        RAD-FC44   6.0
                        RADAR   6.0
                        SANDRINE (BAR 6FR 126)   6.0
                        SEABREEZE GT   6.0
                        SEAMIST (PPG-FRT 101)   6.0
                        SWORD   6.0

                        LSD VALUE   0.2
                        C.V. (%)   2.3

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 17B.   FALL DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                      2019 DATA

                      DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

              NAME   ND1

              BAR VV-VP3-CT   7
              BOLSTER (C14-OS3)   7
              SPINDRIFT (DLFPS-FRC/3060)   7
              CASCADE   6
              CASTLE (RAD-FC32)   6
              COMPASS II (PPG-FRC 113)   6
              DLF-FRC 3338   6
              LEEWARD (DLFPS-FRC/3057)   6
              MOMENTUM (PPG-FRC 114)   6
              RAD-FC44   6
              RADAR   6
              SANDRINE (BAR 6FR 126)   6

              LSD VALUE   0
              C.V. (%)   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 17C.   FALL DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                      2019 DATA

                      DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

              NAME   ND1

              PST-4RUE   8
              7C34   7
              BOREAL   7
              DLF-FRR 6162   7
              KENT   7
              RAD-FR33R   7
              RAD-FR47   7
              CARDINAL II (PPG-FRR 111)   6
              DLFPS-FRR/3068   6
              DLFPS-FRR/3069   6
              MARVEL   6
              NAVIGATOR II   6
              PST-4BEN   6
              PST-4DR4   6
              PST-4ED4   6

              LSD VALUE   0
              C.V. (%)   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.

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TABLE 17D.                FALL DENSITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                    2019 DATA

                         DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY  2/


                              NAME                    ND1

                              GLADIATOR (TH456)       8.0
                              RESOLUTE (7H7)          8.0
                              MNHD-14                 7.3
                              QUATRO                  7.3
                              DLFPS-FL/3060           7.0
                              DLFPS-FL/3066           7.0
                              JETTY (PPG-FL 106)      7.0
                              MINIMUS                 7.0
                              PST-4BND                7.0
                              BEACON                  6.3
                              SWORD                   6.0

                              LSD VALUE               0.5
                              C.V. (%)                4.3
```

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.


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 TABLE  17E.                FALL DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                    2019 DATA

                         DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY  2/


                              NAME                    ND1

                              BARPEARL (BAR FRT 5002)   7
                              BEUDIN                    7
                              SEABREEZE GT              6
                              SEAMIST (PPG-FRT 101)     6

                              LSD VALUE                 0
                              C.V. (%)                  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.

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
RADAR	88.3	99	94.3	93.3	93.8
JETTY (PPG-FL 106)	83.3	99	97.3	95.0	93.7
LEEWARD (DLFPS-FRC/3057)	88.3	99	92.7	93.3	93.3
BAR VV-VP3-CT	88.3	99	94.0	91.7	93.3
SPINDRIFT (DLFPS-FRC/3060)	95.0	99	84.0	95.0	93.3
MNHD-14	83.3	99	95.3	95.0	93.2
SEAMIST (PPG-FRT 101)	88.3	99	91.3	93.3	93.0
7C34	90.0	99	87.3	95.0	92.8
RAD-FR47	91.7	99	85.7	93.3	92.4
COMPASS II (PPG-FRC 113)	88.3	99	90.3	91.7	92.3
DLFPS-FL/3060	80.0	99	95.3	95.0	92.3
CASTLE (RAD-FC32)	86.7	99	88.3	95.0	92.3
BOLSTER (C14-OS3)	83.3	99	90.7	95.0	92.0
DLF-FRR 6162	90.0	99	86.0	91.7	91.7
DLF-FRC 3338	86.7	99	85.7	95.0	91.6
MOMENTUM (PPG-FRC 114)	88.3	99	87.0	91.7	91.5
RAD-FC44	88.3	99	88.7	90.0	91.5
BOREAL	85.0	99	86.7	95.0	91.4
RAD-FR33R	90.0	99	80.7	95.0	91.2
DLFPS-FRR/3068	85.0	99	86.7	93.3	91.0
QUATRO	80.0	99	90.0	95.0	91.0
RESOLUTE (7H7)	73.3	99	96.7	95.0	91.0
CARDINAL II (PPG-FRR 111)	85.0	99	87.0	91.7	90.7
DLFPS-FL/3066	75.0	99	95.0	93.3	90.6
MARVEL	85.0	99	82.3	95.0	90.3
PST-4DR4	78.3	99	87.7	95.0	90.0
BEACON	75.0	99	92.7	91.7	89.6
BEUDIN	81.7	99	85.7	90.0	89.1
GLADIATOR (TH456)	65.0	99	97.0	93.3	88.6
PST-4BEN	78.3	99	82.7	93.3	88.3
BARPEARL (BAR FRT 5002)	71.7	99	90.0	91.7	88.1
CASCADE	78.3	99	84.7	90.0	88.0
SANDRINE (BAR 6FR 126)	66.7	99	92.7	93.3	87.9
PST-4ED4	75.0	99	81.0	95.0	87.5
MINIMUS	60.0	99	91.3	95.0	86.3
KENT	70.0	99	81.3	93.3	85.9
SEABREEZE GT	68.3	99	83.0	91.7	85.5
DLFPS-FRR/3069	68.3	99	79.0	95.0	85.3
NAVIGATOR II	70.0	99	80.0	91.7	85.2
SWORD	58.3	99	87.0	91.7	84.0
PST-4RUE	66.7	99	77.0	91.7	83.6
PST-4BND	28.3	99	87.0	95.0	77.3
LSD VALUE	23.4	0	10.3	3.7	6.5
C.V. (%)	18.5	0	7.2	2.5	8.9

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

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

TABLE 18B.   PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
RADAR	88.3	99	94.3	93.3	93.8
LEEWARD (DLFPS-FRC/3057)	88.3	99	92.7	93.3	93.3
BAR VV-VP3-CT	88.3	99	94.0	91.7	93.3
SPINDRIFT (DLFPS-FRC/3060)	95.0	99	84.0	95.0	93.3
COMPASS II (PPG-FRC 113)	88.3	99	90.3	91.7	92.3
CASTLE (RAD-FC32)	86.7	99	88.3	95.0	92.3
BOLSTER (C14-OS3)	83.3	99	90.7	95.0	92.0
DLF-FRC 3338	86.7	99	85.7	95.0	91.6
MOMENTUM (PPG-FRC 114)	88.3	99	87.0	91.7	91.5
RAD-FC44	88.3	99	88.7	90.0	91.5
CASCADE	78.3	99	84.7	90.0	88.0
SANDRINE (BAR 6FR 126)	66.7	99	92.7	93.3	87.9
LSD VALUE	16.5	0	11.4	4.0	5.1
C.V. (%)	12.0	0	7.9	2.7	6.9

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

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

TABLE 18C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
7C34	90.0	99	87.3	95.0	92.8
RAD-FR47	91.7	99	85.7	93.3	92.4
DLF-FRR 6162	90.0	99	86.0	91.7	91.7
BOREAL	85.0	99	86.7	95.0	91.4
RAD-FR33R	90.0	99	80.7	95.0	91.2
DLFPS-FRR/3068	85.0	99	86.7	93.3	91.0
CARDINAL II (PPG-FRR 111)	85.0	99	87.0	91.7	90.7
MARVEL	85.0	99	82.3	95.0	90.3
PST-4DR4	78.3	99	87.7	95.0	90.0
PST-4BEN	78.3	99	82.7	93.3	88.3
PST-4ED4	75.0	99	81.0	95.0	87.5
KENT	70.0	99	81.3	93.3	85.9
DLFPS-FRR/3069	68.3	99	79.0	95.0	85.3
NAVIGATOR II	70.0	99	80.0	91.7	85.2
PST-4RUE	66.7	99	77.0	91.7	83.6
LSD VALUE	22.8	0	11.1	3.4	6.4
C.V. (%)	17.6	0	8.3	2.3	8.9

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

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

TABLE 18D. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
JETTY (PPG-FL 106)	83.3	99	97.3	95.0	93.7
MNHD-14	83.3	99	95.3	95.0	93.2
DLFPS-FL/3060	80.0	99	95.3	95.0	92.3
QUATRO	80.0	99	90.0	95.0	91.0
RESOLUTE (7H7)	73.3	99	96.7	95.0	91.0
DLFPS-FL/3066	75.0	99	95.0	93.3	90.6
BEACON	75.0	99	92.7	91.7	89.6
GLADIATOR (TH456)	65.0	99	97.0	93.3	88.6
MINIMUS	60.0	99	91.3	95.0	86.3
SWORD	58.3	99	87.0	91.7	84.0
PST-4BND	28.3	99	87.0	95.0	77.3
LSD VALUE	28.5	0	7.7	2.8	7.4
C.V. (%)	25.5	0	5.2	1.9	10.4

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 18E. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
SEAMIST (PPG-FRT 101)	88.3	99	91.3	93.3	93.0
BEUDIN	81.7	99	85.7	90.0	89.1
BARPEARL (BAR FRT 5002)	71.7	99	90.0	91.7	88.1
SEABREEZE GT	68.3	99	83.0	91.7	85.5
LSD VALUE	27.7	0	9.4	5.7	7.4
C.V. (%)	22.2	0	6.7	3.9	10.4

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.

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TABLE 19A.     PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                     2019 DATA

                     PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS  2/

            NAME                        CT1     MI2     MN1     ND1    MEAN

            COMPASS II (PPG-FRC 113)    95.0    99.0    81.7     95    92.7
            DLF-FRR 6162                83.3    97.7    77.3     99    89.3
            RAD-FR33R                   86.7    96.3    74.3     99    89.1
            RADAR                       92.7    99.0    67.3     95    88.5
            BAR VV-VP3-CT               81.7    99.0    72.0     99    87.9
            MOMENTUM (PPG-FRC 114)      86.3    99.0    69.7     95    87.5
            MNHD-14                     83.0    99.0    66.3     99    86.8
            BOLSTER (C14-OS3)           89.7    99.0    52.0     99    84.9
            JETTY (PPG-FL 106)          78.3    99.0    67.0     95    84.8
            DLF-FRC 3338                89.7    99.0    55.3     95    84.8
            MARVEL                      76.7    95.0    66.7     99    84.3
            SEAMIST (PPG-FRT 101)       86.7    99.0    55.7     99    84.1
            SPINDRIFT (DLFPS-FRC/3060)  95.0    99.0    42.7     99    83.9
            BARPEARL (BAR FRT 5002)     68.3    96.0    71.7     99    83.8
            GLADIATOR (TH456)           68.3    99.0    72.3     95    83.7
            PST-4DR4                    66.7    96.3    67.3     99    82.3
            CASTLE (RAD-FC32)           75.0    97.7    61.0     95    82.2
            RAD-FC44                    76.7    99.0    57.0     95    81.9
            RAD-FR47                    68.3    96.3    61.3     99    81.3
            DLFPS-FL/3060               63.3    99.0    62.7     99    81.0
            LEEWARD (DLFPS-FRC/3057)    80.0    99.0    50.0     95    81.0
            DLFPS-FL/3066               70.0    99.0    53.7     99    80.4
            7C34                        83.3    97.7    39.3     99    79.8
            BOREAL                      61.7    91.7    69.3     95    79.4
            QUATRO                      75.0    99.0    43.3     99    79.1
            RESOLUTE (7H7)              50.0    99.0    69.3     95    78.3
            BEUDIN                      55.0    97.7    60.3     99    78.0
            PST-4BEN                    61.7    96.3    52.7     99    77.4
            CARDINAL II (PPG-FRR 111)   80.0    96.3    37.7     95    77.3
            MINIMUS                     51.7    99.0    58.7     99    77.1
            PST-4ED4                    56.7    97.7    57.7     95    76.8
            SWORD                       45.0    99.0    67.3     95    76.6
            BEACON                      35.0    97.7    71.0     99    75.7
            DLFPS-FRR/3068              51.7    95.0    59.0     95    75.2
            PST-4RUE                    60.0    96.3    45.3     99    75.2
            SANDRINE (BAR 6FR 126)      51.7    99.0    50.3     99    75.0
            DLFPS-FRR/3069             46.7    93.3    54.7     99    73.4
            CASCADE                     71.3    95.0    31.7     95    73.3
            SEABREEZE GT                45.0    97.7    51.0     95    72.2
            NAVIGATOR II                40.0    95.0    48.0     99    70.5
            PST-4BND                    25.0    94.7    62.7     99    70.3
            KENT                        30.0    96.3    51.7     99    69.3

            LSD VALUE                   29.6     2.9    36.4      0    11.8
            C.V. (%)                    27.2     1.9    38.2      0    18.2
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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 19B.   PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                        2019 DATA

                    PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

         NAME   CT1   MI2   MN1   ND1   MEAN

         COMPASS II (PPG-FRC 113)   95.0   99.0   81.7   95   92.7
         RADAR   92.7   99.0   67.3   95   88.5
         BAR VV-VP3-CT   81.7   99.0   72.0   99   87.9
         MOMENTUM (PPG-FRC 114)   86.3   99.0   69.7   95   87.5
         BOLSTER (C14-OS3)   89.7   99.0   52.0   99   84.9
         DLF-FRC 3338   89.7   99.0   55.3   95   84.8
         SPINDRIFT (DLFPS-FRC/3060)   95.0   99.0   42.7   99   83.9
         CASTLE (RAD-FC32)   75.0   97.7   61.0   95   82.2
         RAD-FC44   76.7   99.0   57.0   95   81.9
         LEEWARD (DLFPS-FRC/3057)   80.0   99.0   50.0   95   81.0
         SANDRINE (BAR 6FR 126)   51.7   99.0   50.3   99   75.0
         CASCADE   71.3   95.0   31.7   95   73.3

         LSD VALUE   20.1   1.1   35.7   0   10.2
         C.V. (%)   15.2   0.7   38.5   0   15.2

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

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

TABLE 19C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                        2019 DATA

                    PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

         NAME   CT1   MI2   MN1   ND1   MEAN

         DLF-FRR 6162   83.3   97.7   77.3   99   89.3
         RAD-FR33R   86.7   96.3   74.3   99   89.1
         MARVEL   76.7   95.0   66.7   99   84.3
         PST-4DR4   66.7   96.3   67.3   99   82.3
         RAD-FR47   68.3   96.3   61.3   99   81.3
         7C34   83.3   97.7   39.3   99   79.8
         BOREAL   61.7   91.7   69.3   95   79.4
         PST-4BEN   61.7   96.3   52.7   99   77.4
         CARDINAL II (PPG-FRR 111)   80.0   96.3   37.7   95   77.3
         PST-4ED4   56.7   97.7   57.7   95   76.8
         DLFPS-FRR/3068   51.7   95.0   59.0   95   75.2
         PST-4RUE   60.0   96.3   45.3   99   75.2
         DLFPS-FRR/3069   46.7   93.3   54.7   99   73.4
         NAVIGATOR II   40.0   95.0   48.0   99   70.5
         KENT   30.0   96.3   51.7   99   69.3

         LSD VALUE   26.6   3.5   35.2   0   11.0
         C.V. (%)   26.0   2.3   38.0   0   17.5

  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 19D.   PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
MNHD-14	83.0	99.0	66.3	99	86.8
JETTY (PPG-FL 106)	78.3	99.0	67.0	95	84.8
GLADIATOR (TH456)	68.3	99.0	72.3	95	83.7
DLFPS-FL/3060	63.3	99.0	62.7	99	81.0
DLFPS-FL/3066	70.0	99.0	53.7	99	80.4
QUATRO	75.0	99.0	43.3	99	79.1
RESOLUTE (7H7)	50.0	99.0	69.3	95	78.3
MINIMUS	51.7	99.0	58.7	99	77.1
SWORD	45.0	99.0	67.3	95	76.6
BEACON	35.0	97.7	71.0	99	75.7
PST-4BND	25.0	94.7	62.7	99	70.3
LSD VALUE	36.9	2.5	37.0	0	13.1
C.V. (%)	39.1	1.6	36.4	0	20.4

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 19E. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CT1	MI2	MN1	ND1	MEAN
SEAMIST (PPG-FRT 101)	86.7	99.0	55.7	95	84.1
BARPEARL (BAR FRT 5002)	68.3	96.0	71.7	99	83.8
BEUDIN	55.0	97.7	60.3	99	78.0
SEABREEZE GT	45.0	97.7	51.0	95	72.2
LSD VALUE	39.9	4.9	41.5	0	14.4
C.V. (%)	39.0	3.1	43.2	0	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 20A.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                2019 DATA

                        PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CT1	MI1	MI2	MN1	MN2	ND1	NJ2	MEAN
RADAR	94.7	99.0	97.7	92.0	96.3	99.0	88.0	95.2
BOLSTER (C14-OS3)	88.3	99.0	99.0	92.7	97.3	99.0	88.3	94.8
MOMENTUM (PPG-FRC 114)	88.3	99.0	97.7	94.0	98.3	99.0	86.7	94.7
SEAMIST (PPG-FRT 101)	83.3	99.0	97.7	94.0	97.3	99.0	85.0	93.6
LEEWARD (DLFPS-FRC/3057)	86.7	99.0	99.0	94.7	95.0	99.0	81.7	93.6
DLF-FRC 3338	86.7	99.0	97.7	94.3	98.0	99.0	80.0	93.5
SPINDRIFT (DLFPS-FRC/3060)	93.3	99.0	96.3	91.7	97.7	99.0	76.7	93.4
JETTY (PPG-FL 106)	70.0	97.7	97.7	93.3	98.0	99.0	90.0	92.2
DLFPS-FL/3060	76.7	99.0	97.7	93.0	98.0	99.0	81.7	92.1
MNHD-14	76.7	99.0	99.0	83.0	95.7	99.0	86.7	91.3
COMPASS II (PPG-FRC 113)	93.3	99.0	99.0	75.0	97.3	89.0	85.0	91.1
DLFPS-FL/3066	68.3	93.0	97.7	88.3	96.7	99.0	88.3	90.2
RESOLUTE (7H7)	45.0	99.0	99.0	94.3	98.3	99.0	96.3	90.1
GLADIATOR (TH456)	70.0	99.0	96.3	72.0	97.7	99.0	91.3	89.3
CASTLE (RAD-FC32)	66.7	99.0	95.0	96.3	98.0	99.0	68.3	88.9
DLF-FRR 6162	78.3	99.0	96.3	86.0	90.0	99.0	73.3	88.9
BAR VV-VP3-CT	76.7	99.0	96.0	83.7	95.0	99.0	71.7	88.7
BARPEARL (BAR FRT 5002)	66.7	99.0	96.3	87.7	92.3	99.0	80.0	88.7
7C34	76.7	99.0	90.0	81.0	92.0	99.0	81.7	88.5
SWORD	58.3	97.7	96.3	78.3	94.7	99.0	93.0	88.2
CARDINAL II (PPG-FRR 111)	73.3	99.0	94.7	74.3	87.3	99.0	78.3	86.6
RAD-FC44	73.3	99.0	97.7	86.7	95.3	99.0	53.3	86.3
CASCADE	76.7	99.0	94.7	76.0	94.3	99.0	58.3	85.4
BEACON	28.3	96.0	99.0	88.0	97.0	99.0	88.3	85.1
QUATRO	85.0	92.7	97.7	58.0	81.7	99.0	81.7	85.1
PST-4BEN	66.7	99.0	93.0	75.0	93.7	99.0	68.3	85.0
RAD-FR33R	80.0	99.0	88.3	79.7	87.0	99.0	55.0	84.0
MARVEL	73.3	99.0	83.3	83.0	87.0	99.0	58.3	83.3
MINIMUS	36.7	92.7	97.7	77.0	97.7	99.0	78.3	82.7
SEABREEZE GT	41.7	99.0	81.7	89.7	86.0	99.0	81.7	82.7
SANDRINE (BAR 6FR 126)	28.3	99.0	97.7	93.3	88.7	99.0	63.3	81.3
PST-4BND	31.7	96.0	97.7	72.7	95.7	99.0	75.0	81.1
PST-4DR4	56.7	99.0	90.0	76.0	85.0	99.0	58.3	80.6
PST-4RUE	48.3	99.0	91.3	78.3	92.7	99.0	53.3	80.3
BEUDIN	41.7	97.7	79.7	89.7	93.0	99.0	56.7	79.6
PST-4ED4	53.3	99.0	99.0	61.0	84.0	99.0	60.0	79.3
RAD-FR47	46.7	97.7	76.7	83.0	89.7	99.0	55.0	78.2
DLFPS-FRR/3069	56.7	99.0	76.7	60.3	92.0	99.0	61.7	77.9
DLFPS-FRR/3068	48.3	99.0	73.3	89.0	85.0	97.7	45.0	76.8
KENT	31.7	99.0	63.3	81.0	85.3	99.0	65.0	74.9
BOREAL	41.7	99.0	65.0	75.7	77.0	99.0	58.3	73.7
NAVIGATOR II	25.0	99.0	70.0	89.0	85.0	99.0	46.7	73.4
LSD VALUE	28.1	4.6	14.9	22.0	6.0	0.6	20.1	6.3
C.V. (%)	27.3	2.9	10.1	16.4	4.1	0.4	17.1	12.1

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

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

TABLE 20B.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                            2019 DATA

                    PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CT1	MI1	MI2	MN1	MN2	ND1	NJ2	MEAN
RADAR	94.7	99	97.7	92.0	96.3	99	88.0	95.2
BOLSTER (C14-OS3)	88.3	99	99.0	92.7	97.3	99	88.3	94.8
MOMENTUM (PPG-FRC 114)	88.3	99	97.7	94.0	98.3	99	86.7	94.7
LEEWARD (DLFPS-FRC/3057)	86.7	99	99.0	94.7	95.0	99	81.7	93.6
DLF-FRC 3338	86.7	99	97.7	94.3	98.0	99	80.0	93.5
SPINDRIFT (DLFPS-FRC/3060)	93.3	99	96.3	91.7	97.7	99	76.7	93.4
COMPASS II (PPG-FRC 113)	93.3	99	99.0	75.0	97.3	89	85.0	91.1
CASTLE (RAD-FC32)	66.7	99	95.0	96.3	98.0	99	68.3	88.9
BAR VV-VP3-CT	76.7	99	96.0	83.7	95.0	99	71.7	88.7
RAD-FC44	73.3	99	97.7	86.7	95.3	99	53.3	86.3
CASCADE	76.7	99	94.7	76.0	94.3	99	58.3	85.4
SANDRINE (BAR 6FR 126)	28.3	99	97.7	93.3	88.7	99	63.3	81.3
LSD VALUE	15.1	0	4.1	21.3	4.6	0	20.9	4.9
C.V. (%)	11.8	0	2.6	14.9	3.0	0	17.3	8.8

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

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

TABLE 20C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                            2019 DATA

                    PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CT1	MI1	MI2	MN1	MN2	ND1	NJ2	MEAN
DLF-FRR 6162	78.3	99.0	96.3	86.0	90.0	99.0	73.3	88.9
7C34	76.7	99.0	90.0	81.0	92.0	99.0	81.7	88.5
CARDINAL II (PPG-FRR 111)	73.3	99.0	94.7	74.3	87.3	99.0	78.3	86.6
PST-4BEN	66.7	99.0	93.0	75.0	93.7	99.0	68.3	85.0
RAD-FR33R	80.0	99.0	88.3	79.7	87.0	99.0	55.0	84.0
MARVEL	73.3	99.0	83.3	83.0	87.0	99.0	58.3	83.3
PST-4DR4	56.7	99.0	90.0	76.0	85.0	99.0	58.3	80.6
PST-4RUE	48.3	99.0	91.3	78.3	92.7	99.0	53.3	80.3
PST-4ED4	53.3	99.0	99.0	61.0	84.0	99.0	60.0	79.3
RAD-FR47	46.7	97.7	76.7	83.0	89.7	99.0	55.0	78.2
DLFPS-FRR/3069	56.7	99.0	76.7	60.3	92.0	99.0	61.7	77.9
DLFPS-FRR/3068	48.3	99.0	73.3	89.0	85.0	97.7	45.0	76.8
KENT	31.7	99.0	63.3	81.0	85.3	99.0	65.0	74.9
BOREAL	41.7	99.0	65.0	75.7	77.0	99.0	58.3	73.7
NAVIGATOR II	25.0	99.0	70.0	89.0	85.0	99.0	46.7	73.4
LSD VALUE	31.7	1.0	22.5	20.9	8.3	1.0	23.9	7.3
C.V. (%)	34.5	0.6	16.8	16.6	5.9	0.6	24.3	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.

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TABLE 20D.    PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                        2019 DATA


                      PERCENT LIVING GROUND COVER IN FALL: LOCATIONS  2/


          NAME                   CT1    MI1    MI2    MN1    MN2    ND1    NJ2    MEAN

          JETTY (PPG-FL 106)     70.0   97.7   97.7   93.3   98.0   99     90.0   92.2
          DLFPS-FL/3060          76.7   99.0   97.7   93.0   98.0   99     81.7   92.1
          MNHD-14                76.7   99.0   99.0   83.0   95.7   99     86.7   91.3
          DLFPS-FL/3066          68.3   93.0   97.7   88.3   96.7   99     88.3   90.2
          RESOLUTE (7H7)         45.0   99.0   99.0   94.3   98.3   99     96.3   90.1
          GLADIATOR (TH456)      70.0   99.0   96.3   72.0   97.7   99     91.3   89.3
          SWORD                  58.3   97.7   96.3   78.3   94.7   99     93.0   88.2
          BEACON                 28.3   96.0   99.0   88.0   97.0   99     88.3   85.1
          QUATRO                 85.0   92.7   97.7   58.0   81.7   99     81.7   85.1
          MINIMUS                36.7   92.7   97.7   77.0   97.7   99     78.3   82.7
          PST-4BND               31.7   96.0   97.7   72.7   95.7   99     75.0   81.1

          LSD VALUE              34.2    8.8    3.2   26.9    4.0    0     14.0    6.7
          C.V. (%)               36.2    5.7    2.0   20.5    2.6    0     10.1   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 20E.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                        2019 DATA

                      PERCENT LIVING GROUND COVER IN FALL: LOCATIONS  2/


          NAME                   CT1    MI1    MI2    MN1    MN2    ND1    NJ2    MEAN

          SEAMIST (PPG-FRT 101)  83.3   99.0   97.7   94.0   97.3   99     85.0   93.6
          BARPEARL (BAR FRT 5002) 66.7  99.0   96.3   87.7   92.3   99     80.0   88.7
          SEABREEZE GT           41.7   99.0   81.7   89.7   86.0   99     81.7   82.7
          BEUDIN                 41.7   97.7   79.7   89.7   93.0   99     56.7   79.6

          LSD VALUE              25.5    1.9   18.8   10.2    3.7    0     15.9    5.3
          C.V. (%)               27.2    1.2   13.2    7.0    2.5    0     13.0   10.1

     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.
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TABLE 21A.                    DOLLAR SPOT RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                        2019 DATA

                      DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE  2/

                NAME                          MI1    MI2    MEAN

                BOLSTER (C14-OS3)             9.0    9.0     9.0
                COMPASS II (PPG-FRC 113)      9.0    9.0     9.0
                LEEWARD (DLFPS-FRC/3057)      9.0    9.0     9.0
                GLADIATOR (TH456)             9.0    9.0     9.0
                MNHD-14                       9.0    8.7     8.8
                PST-4ED4                      8.7    9.0     8.8
                RAD-FC44                      8.7    9.0     8.8
                SEAMIST (PPG-FRT 101)         8.7    9.0     8.8
                DLF-FRC 3338                  8.3    9.0     8.7
                DLF-FRR 6162                  8.3    9.0     8.7
                RESOLUTE (7H7)                8.7    8.7     8.7
                CASTLE (RAD-FC32)             8.0    9.0     8.5
                DLFPS-FL/3060                 8.7    8.3     8.5
                MOMENTUM (PPG-FRC 114)        8.0    9.0     8.5
                PST-4BEN                      9.0    8.0     8.5
                BAR VV-VP3-CT                 8.3    8.3     8.3
                CARDINAL II (PPG-FRR 111)     8.3    8.3     8.3
                PST-4BND                      8.3    8.3     8.3
                RADAR                         7.7    9.0     8.3
                SANDRINE (BAR 6FR 126)        8.3    8.3     8.3
                JETTY (PPG-FL 106)            8.0    8.7     8.3
                SWORD                         8.0    8.7     8.3
                BEACON                        8.0    8.0     8.0
                PST-4RUE                      7.7    8.3     8.0
                BARPEARL (BAR FRT 5002)       7.7    8.0     7.8
                DLFPS-FL/3066                 6.7    9.0     7.8
                SPINDRIFT (DLFPS-FRC/3060)    8.3    7.3     7.8
                MINIMUS                       7.0    8.3     7.7
                CASCADE                       7.3    7.7     7.5
                QUATRO                        6.0    9.0     7.5
                7C34                          8.0    5.7     6.8
                PST-4DR4                      8.7    3.3     6.0
                RAD-FR33R                     7.0    5.0     6.0
                DLFPS-FRR/3069                8.3    3.3     5.8
                BEUDIN                        7.3    4.0     5.7
                SEABREEZE GT                  7.0    4.0     5.5
                NAVIGATOR II                  7.3    3.0     5.2
                BOREAL                        7.7    2.3     5.0
                DLFPS-FRR/3068                7.7    2.3     5.0
                MARVEL                        7.0    3.0     5.0
                KENT                          7.3    1.7     4.5
                RAD-FR47                      7.0    2.0     4.5

                LSD VALUE                     1.9    2.1     1.4
                C.V. (%)                     14.8   18.0    16.3
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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.

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TABLE 21B.                    DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                          2019 DATA

                          DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE  2/

                    NAME                        MI1    MI2    MEAN

                    BOLSTER (C14-OS3)           9.0    9.0    9.0
                    COMPASS II (PPG-FRC 113)    9.0    9.0    9.0
                    LEEWARD (DLFPS-FRC/3057)    9.0    9.0    9.0
                    RAD-FC44                    8.7    9.0    8.8
                    DLF-FRC 3338               8.3    9.0    8.7
                    CASTLE (RAD-FC32)           8.0    9.0    8.5
                    MOMENTUM (PPG-FRC 114)      8.0    9.0    8.5
                    BAR VV-VP3-CT               8.3    8.3    8.3
                    RADAR                       7.7    9.0    8.3
                    SANDRINE (BAR 6FR 126)      8.3    8.3    8.3
                    SPINDRIFT (DLFPS-FRC/3060)  8.3    7.3    7.8
                    CASCADE                     7.3    7.7    7.5

                    LSD VALUE                   1.6    1.0    0.9
                    C.V. (%)                   11.7    7.0    9.5

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

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


TABLE 21C.                   DOLLAR SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                          2019 DATA

                          DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE  2/

                    NAME                        MI1    MI2    MEAN

                    PST-4ED4                    8.7    9.0    8.8
                    DLF-FRR 6162                8.3    9.0    8.7
                    PST-4BEN                    9.0    8.0    8.5
                    CARDINAL II (PPG-FRR 111)   8.3    8.3    8.3
                    PST-4RUE                    7.7    8.3    8.0
                    7C34                        8.0    5.7    6.8
                    PST-4DR4                    8.7    3.3    6.0
                    RAD-FR33R                   7.0    5.0    6.0
                    DLFPS-FRR/3069              8.3    3.3    5.8
                    NAVIGATOR II                7.3    3.0    5.2
                    BOREAL                      7.7    2.3    5.0
                    DLFPS-FRR/3068              7.7    2.3    5.0
                    MARVEL                      7.0    3.0    5.0
                    KENT                        7.3    1.7    4.5
                    RAD-FR47                    7.0    2.0    4.5

                    LSD VALUE                   1.5    2.6    1.5
                    C.V. (%)                   12.0   32.8   20.7

    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.
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TABLE 21D.                  DOLLAR SPOT RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                           2019 DATA

                           DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE  2/

                           NAME                    MI1    MI2    MEAN

                           GLADIATOR (TH456)       9.0    9.0    9.0
                           MNHD-14                 9.0    8.7    8.8
                           RESOLUTE (7H7)          8.7    8.7    8.7
                           DLFPS-FL/3060           8.7    8.3    8.5
                           PST-4BND                8.3    8.3    8.3
                           JETTY (PPG-FL 106)      8.0    8.7    8.3
                           SWORD                   8.0    8.7    8.3
                           BEACON                  8.0    8.0    8.0
                           DLFPS-FL/3066           6.7    9.0    7.8
                           MINIMUS                 7.0    8.3    7.7
                           QUATRO                  6.0    9.0    7.5

                           LSD VALUE               2.8    1.1    1.5
                           C.V. (%)               21.6    8.1   15.8
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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.

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TABLE 21E.                  DOLLAR SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                           2019 DATA

                           DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE  2/

                           NAME                    MI1    MI2    MEAN

                           SEAMIST (PPG-FRT 101)   8.7    9.0    8.8
                           BARPEARL (BAR FRT 5002) 7.7    8.0    7.8
                           BEUDIN                  7.3    4.0    5.7
                           SEABREEZE GT            7.0    4.0    5.5

                           LSD VALUE               1.1    3.5    1.8
                           C.V. (%)                9.2   34.9   23.3
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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.

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TABLE 22A.                    RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                           2019 DATA

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


                   NAME                              MO1

                   BEACON                            9.0
                   BOLSTER (C14-OS3)                 9.0
                   BOREAL                            9.0
                   DLF-FRR 6162                      9.0
                   DLFPS-FL/3060                     9.0
                   DLFPS-FL/3066                     9.0
                   GLADIATOR (TH456)                 9.0
                   JETTY (PPG-FL 106)                9.0
                   MARVEL                            9.0
                   MINIMUS                           9.0
                   PST-4BEN                          9.0
                   PST-4ED4                          9.0
                   QUATRO                            9.0
                   RAD-FR47                          9.0
                   RADAR                             9.0
                   RESOLUTE (7H7)                    9.0
                   SWORD                             9.0
                   7C34                              8.7
                   BARPEARL (BAR FRT 5002)           8.7
                   BEUDIN                            8.7
                   CARDINAL II (PPG-FRR 111)         8.7
                   DLF-FRC 3338                      8.7
                   LEEWARD (DLFPS-FRC/3057)          8.7
                   DLFPS-FRR/3069                    8.7
                   MNHD-14                           8.7
                   PST-4BND                          8.7
                   PST-4DR4                          8.7
                   PST-4RUE                          8.7
                   RAD-FC44                          8.7
                   SEABREEZE GT                      8.7
                   BAR VV-VP3-CT                     8.3
                   COMPASS II (PPG-FRC 113)          8.3
                   NAVIGATOR II                      8.3
                   CASTLE (RAD-FC32)                 8.0
                   DLFPS-FRR/3068                    8.0
                   RAD-FR33R                         8.0
                   MOMENTUM (PPG-FRC 114)            7.7
                   SANDRINE (BAR 6FR 126)            7.7
                   SEAMIST (PPG-FRT 101)             7.7
                   CASCADE                           7.3
                   SPINDRIFT (DLFPS-FRC/3060)        7.3
                   KENT                              7.3


                   LSD VALUE                         0.9
                   C.V. (%)                          6.3
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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.

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TABLE 22B.                        RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                               2019 DATA

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


                          NAME                        MO1

                          BOLSTER (C14-OS3)           9.0
                          RADAR                       9.0
                          DLF-FRC 3338                8.7
                          LEEWARD (DLFPS-FRC/3057)    8.7
                          RAD-FC44                    8.7
                          BAR VV-VP3-CT               8.3
                          COMPASS II (PPG-FRC 113)    8.3
                          CASTLE (RAD-FC32)           8.0
                          MOMENTUM (PPG-FRC 114)      7.7
                          SANDRINE (BAR 6FR 126)      7.7
                          CASCADE                     7.3
                          SPINDRIFT (DLFPS-FRC/3060)  7.3

                          LSD VALUE                   0.9
                          C.V. (%)                    7.0


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

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


TABLE 22C.                    RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                               2019 DATA

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


                          NAME                        MO1

                          BOREAL                      9.0
                          DLF-FRR 6162                9.0
                          MARVEL                      9.0
                          PST-4BEN                    9.0
                          PST-4ED4                    9.0
                          RAD-FR47                    9.0
                          7C34                        8.7
                          CARDINAL II (PPG-FRR 111)   8.7
                          DLFPS-FRR/3069              8.7
                          PST-4DR4                    8.7
                          PST-4RUE                    8.7
                          NAVIGATOR II                8.3
                          DLFPS-FRR/3068              8.0
                          RAD-FR33R                   8.0
                          KENT                        7.3

                          LSD VALUE                   1.0
                          C.V. (%)                    7.6


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

    2/  C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
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TABLE 22D.                  RED THREAD RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                       2019 DATA

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

                              NAME                    MO1

                              BEACON                  9.0
                              DLFPS-FL/3060           9.0
                              DLFPS-FL/3066           9.0
                              GLADIATOR (TH456)       9.0
                              JETTY (PPG-FL 106)      9.0
                              MINIMUS                 9.0
                              QUATRO                  9.0
                              RESOLUTE (7H7)          9.0
                              SWORD                   9.0
                              MNHD-14                 8.7
                              PST-4BND                8.7

                              LSD VALUE               0.4
                              C.V. (%)                2.8
```

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.

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TABLE 22E.                  RED THREAD RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                       2019 DATA

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

                              NAME                    MO1

                              BARPEARL (BAR FRT 5002)  8.7
                              BEUDIN                   8.7
                              SEABREEZE GT             8.7
                              SEAMIST (PPG-FRT 101)    7.7

                              LSD VALUE               0.9
                              C.V. (%)                6.9
```

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

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

TABLE 23A.   PERCENT CRABGRASS RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                        2019 DATA 2/

                          NAME   MN1

                          CARDINAL II (PPG-FRR 111)   45.7
                          SPINDRIFT (DLFPS-FRC/3060)   43.0
                          QUATRO   41.3
                          7C34   39.3
                          CASCADE   39.3
                          BOLSTER (C14-OS3)   35.0
                          LEEWARD (DLFPS-FRC/3057)   35.0
                          NAVIGATOR II   34.3
                          PST-4BEN   34.3
                          DLF-FRC 3338   33.3
                          KENT   32.7
                          RAD-FC44   31.0
                          PST-4RUE   30.0
                          DLFPS-FRR/3069   29.0
                          SEAMIST (PPG-FRT 101)   28.7
                          CASTLE (RAD-FC32)   28.3
                          PST-4ED4   28.0
                          MINIMUS   26.7
                          DLFPS-FL/3066   26.0
                          MOMENTUM (PPG-FRC 114)   25.7
                          RAD-FR47   25.3
                          BEUDIN   24.7
                          PST-4BND   24.0
                          MARVEL   23.0
                          RADAR   23.0
                          SANDRINE (BAR 6FR 126)   23.0
                          SEABREEZE GT   23.0
                          BOREAL   22.0
                          BEACON   21.0
                          DLFPS-FL/3060   21.0
                          RESOLUTE (7H7)   20.3
                          DLFPS-FRR/3068   20.0
                          BARPEARL (BAR FRT 5002)   18.7
                          PST-4DR4   18.7
                          SWORD   18.7
                          GLADIATOR (TH456)   18.3
                          BAR VV-VP3-CT   17.0
                          MNHD-14   17.0
                          JETTY (PPG-FL 106)   16.7
                          COMPASS II (PPG-FRC 113)   15.0
                          DLF-FRR 6162   10.7
                          RAD-FR33R   8.0

                          LSD VALUE   29.5
                          C.V. (%)   70.3

    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.

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TABLE 23B.              PERCENT CRABGRASS RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                  2019 DATA  2/


                        NAME                         MN1

                        SPINDRIFT (DLFPS-FRC/3060)   43.0
                        CASCADE                      39.3
                        BOLSTER (C14-OS3)            35.0
                        LEEWARD (DLFPS-FRC/3057)     35.0
                        DLF-FRC 3338                 33.3
                        RAD-FC44                     31.0
                        CASTLE (RAD-FC32)            28.3
                        MOMENTUM (PPG-FRC 114)       25.7
                        RADAR                        23.0
                        SANDRINE (BAR 6FR 126)       23.0
                        BAR VV-VP3-CT                17.0
                        COMPASS II (PPG-FRC 113)     15.0

                        LSD VALUE                    32.9
                        C.V. (%)                     70.4
```

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.

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TABLE 23C.              PERCENT CRABGRASS RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                  2019 DATA  2/


                        NAME                         MN1

                        CARDINAL II (PPG-FRR 111)    45.7
                        7C34                         39.3
                        NAVIGATOR II                 34.3
                        PST-4BEN                     34.3
                        KENT                         32.7
                        PST-4RUE                     30.0
                        DLFPS-FRR/3069               29.0
                        PST-4ED4                     28.0
                        RAD-FR47                     25.3
                        MARVEL                       23.0
                        BOREAL                       22.0
                        DLFPS-FRR/3068               20.0
                        PST-4DR4                     18.7
                        DLF-FRR 6162                 10.7
                        RAD-FR33R                     8.0

                        LSD VALUE                    27.7
                        C.V. (%)                     64.4
```

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.

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TABLE 23D.   PERCENT CRABGRASS RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                   2019 DATA 2/

                          NAME   MN1

                          QUATRO   41.3
                          MINIMUS   26.7
                          DLFPS-FL/3066   26.0
                          PST-4BND   24.0
                          BEACON   21.0
                          DLFPS-FL/3060   21.0
                          RESOLUTE (7H7)   20.3
                          SWORD   18.7
                          GLADIATOR (TH456)   18.3
                          MNHD-14   17.0
                          JETTY (PPG-FL 106)   16.7

                          LSD VALUE   27.4
                          C.V. (%)   74.6
```

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.

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TABLE 23E.              PERCENT CRABGRASS RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                   2019 DATA  2/

                          NAME                    MN1

                          SEAMIST (PPG-FRT 101)   28.7
                          BEUDIN                  24.7
                          SEABREEZE GT            23.0
                          BARPEARL (BAR FRT 5002) 18.7

                          LSD VALUE               30.6
                          C.V. (%)                80.0
```

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.

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TABLE 24A.   PERCENT WEEDS (OCTOBER) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                   2019 DATA 2/

                            NAME   MN2

                            BOREAL   19.0
                            QUATRO   16.7
                            PST-4ED4   13.7
                            SEABREEZE GT   12.0
                            PST-4DR4   11.3
                            KENT   11.0
                            NAVIGATOR II   10.7
                            RAD-FR33R   10.0
                            SANDRINE (BAR 6FR 126)   9.7
                            DLFPS-FRR/3068   8.3
                            MARVEL   8.3
                            CARDINAL II (PPG-FRR 111)   8.0
                            RAD-FR47   8.0
                            BARPEARL (BAR FRT 5002)   5.7
                            PST-4RUE   5.7
                            DLF-FRR 6162   4.3
                            DLFPS-FRR/3069   4.3
                            PST-4BEN   4.3
                            SWORD   4.3
                            BAR VV-VP3-CT   4.0
                            CASCADE   4.0
                            7C34   3.7
                            RAD-FC44   3.7
                            BEUDIN   3.3
                            LEEWARD (DLFPS-FRC/3057)   3.3
                            MNHD-14   3.3
                            RADAR   2.7
                            BEACON   1.7
                            BOLSTER (C14-OS3)   1.7
                            COMPASS II (PPG-FRC 113)   1.7
                            DLF-FRC 3338   1.7
                            SPINDRIFT (DLFPS-FRC/3060)   1.7
                            PST-4BND   1.3
                            CASTLE (RAD-FC32)   1.0
                            DLFPS-FL/3066   1.0
                            MINIMUS   1.0
                            MOMENTUM (PPG-FRC 114)   1.0
                            DLFPS-FL/3060   0.7
                            GLADIATOR (TH456)   0.7
                            JETTY (PPG-FL 106)   0.7
                            RESOLUTE (7H7)   0.7
                            SEAMIST (PPG-FRT 101)   0.7

                            LSD VALUE   5.0
                            C.V. (%)   59.0

    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.
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TABLE 24B.              PERCENT WEEDS (OCTOBER) RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                      2019 DATA  2/


                        NAME                          MN2

                        SANDRINE (BAR 6FR 126)        9.7
                        BAR VV-VP3-CT                 4.0
                        CASCADE                       4.0
                        RAD-FC44                      3.7
                        LEEWARD (DLFPS-FRC/3057)      3.3
                        RADAR                         2.7
                        BOLSTER (C14-OS3)             1.7
                        COMPASS II (PPG-FRC 113)      1.7
                        DLF-FRC 3338                  1.7
                        SPINDRIFT (DLFPS-FRC/3060)    1.7
                        CASTLE (RAD-FC32)             1.0
                        MOMENTUM (PPG-FRC 114)        1.0

                        LSD VALUE                     3.4
                        C.V. (%)                     69.8
```

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.

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TABLE 24C.         PERCENT WEEDS (OCTOBER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                      2019 DATA  2/


                        NAME                          MN2

                        BOREAL                       19.0
                        PST-4ED4                     13.7
                        PST-4DR4                     11.3
                        KENT                         11.0
                        NAVIGATOR II                 10.7
                        RAD-FR33R                    10.0
                        DLFPS-FRR/3068                8.3
                        MARVEL                        8.3
                        CARDINAL II (PPG-FRR 111)     8.0
                        RAD-FR47                      8.0
                        PST-4RUE                      5.7
                        DLF-FRR 6162                  4.3
                        DLFPS-FRR/3069                4.3
                        PST-4BEN                      4.3
                        7C34                          3.7

                        LSD VALUE                     7.0
                        C.V. (%)                     50.0
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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 24D.   PERCENT WEEDS (OCTOBER) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                    2019 DATA 2/

                         NAME   MN2

                         QUATRO   16.7
                         SWORD   4.3
                         MNHD-14   3.3
                         BEACON   1.7
                         PST-4BND   1.3
                         DLFPS-FL/3066   1.0
                         MINIMUS   1.0
                         DLFPS-FL/3060   0.7
                         GLADIATOR (TH456)   0.7
                         JETTY (PPG-FL 106)   0.7
                         RESOLUTE (7H7)   0.7

                         LSD VALUE   3.3
                         C.V. (%)   70.3

  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 24E.   PERCENT WEEDS (OCTOBER) RATINGS OF SLENDER CREEPING RED CULTIVARS 1/
                                    2019 DATA 2/

                         NAME   MN2

                         SEABREEZE GT   12.0
                         BARPEARL (BAR FRT 5002) 5.7
                         BEUDIN   3.3
                         SEAMIST (PPG-FRT 101)   0.7

                         LSD VALUE   3.6
                         C.V. (%)   41.3

  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.

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TABLE 25A.          PERCENT WEEDS AND BARE SOIL RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                             AT ST. PAUL (FAIRWAY), MN  2/
                                      2019 DATA

                                    PERCENT WEEDS        PERCENT OF BARE SPOT
            NAME                  SUMMER    FALL      SPRING    SUMMER    FALL

            MARVEL                 27.0     10.7       17.7      6.3      6.3
            BOREAL                 25.0     18.7       11.7      5.3      6.0
            PST-4RUE               46.3     16.7       17.0      8.7      5.0
            RAD-FR47               32.3     12.7       13.0      5.7      4.7
            CARDINAL II (PPG-FRR 111)  54.3  21.0      12.0      8.0      4.3
            DLFPS-FRR/3068         33.7      7.0       10.7      7.0      4.3
            DLF-FRR 6162           17.7      9.7       14.0      5.7      4.0
            PST-4BEN               43.0     21.7       11.7      4.0      3.7
            DLFPS-FRR/3069         39.3     36.3       13.0      5.3      3.3
            RESOLUTE (7H7)         27.7      2.3        2.3      3.3      3.3
            BEUDIN                 33.7      8.0       14.7      6.3      2.7
            COMPASS II (PPG-FRC 113)  16.0  22.3        9.3      1.7      2.7
            SEABREEZE GT           45.0      9.7       11.3      3.7      2.7
            7C34                   54.7     16.7       12.7      5.7      2.3
            PST-4ED4               39.3     37.0       13.3      3.3      2.3
            MOMENTUM (PPG-FRC 114) 26.7      3.7       13.0      3.3      2.0
            RAD-FC44               35.0     12.0       11.3      8.0      2.0
            CASCADE                64.7     22.0       13.7      3.3      1.7
            KENT                   40.7     17.0       16.0      7.3      1.7
            NAVIGATOR II           48.7      9.7       15.3      3.3      1.7
            PST-4BND               31.7     25.7        7.0      6.0      1.7
            RAD-FR33R              17.0     18.3       19.7      8.7      1.7
            SWORD                  28.7     19.7        5.0      4.0      1.7
            BAR VV-VP3-CT          22.0     15.3        6.0      6.0      1.3
            BEACON                 26.0     11.0        4.0      3.0      1.3
            DLF-FRC 3338           39.7      4.7       14.3      5.0      1.3
            PST-4DR4               27.0     23.0       11.7      5.7      1.3
            CASTLE (RAD-FC32)      33.3      2.3       11.7      5.7      1.0
            MINIMUS                35.3     21.3        4.7      5.7      1.0
            SEAMIST (PPG-FRT 101)  39.3      4.3        8.7      5.3      1.0
            BOLSTER (C14-OS3)      42.3      6.7        9.3      5.7      0.7
            LEEWARD (DLFPS-FRC/3057)  46.3   4.7        7.3      3.0      0.7
            SPINDRIFT (DLFPS-FRC/3060) 53.3  7.3       16.0      4.3      0.7
            GLADIATOR (TH456)      22.3     26.7        2.3      5.0      0.7
            MNHD-14                29.3     15.7        1.7      4.3      0.7
            RADAR                  28.0      7.3        5.7      4.7      0.7
            BARPEARL (BAR FRT 5002) 26.0    11.7        8.7      2.3      0.3
            DLFPS-FL/3060          34.0      6.7        3.3      3.7      0.3
            DLFPS-FL/3066          42.3     11.0        1.3      3.7      0.3
            QUATRO                 53.0     41.7        6.7      3.7      0.3
            SANDRINE (BAR 6FR 126) 45.7      6.7        6.0      4.0      0.3
            JETTY (PPG-FL 106)     29.0      6.7        1.0      4.7      0.0

            LSD VALUE              89.3     27.6       10.0     12.3      2.9
            C.V. (%)               61.5     83.9       53.7     63.2     78.8
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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 25B.   PERCENT WEEDS AND BARE SOIL RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                        AT ST. PAUL (FAIRWAY), MN 2/
                              2019 DATA

| | PERCENT WEEDS | | PERCENT OF BARE SPOT | | |
NAME	SUMMER	FALL	SPRING	SUMMER	FALL
COMPASS II (PPG-FRC 113)	16.0	22.3	9.3	1.7	2.7
MOMENTUM (PPG-FRC 114)	26.7	3.7	13.0	3.3	2.0
RAD-FC44	35.0	12.0	11.3	8.0	2.0
CASCADE	64.7	22.0	13.7	3.3	1.7
BAR VV-VP3-CT	22.0	15.3	6.0	6.0	1.3
DLF-FRC 3338	39.7	4.7	14.3	5.0	1.3
CASTLE (RAD-FC32)	33.3	2.3	11.7	5.7	1.0
BOLSTER (C14-OS3)	42.3	6.7	9.3	5.7	0.7
LEEWARD (DLFPS-FRC/3057)	46.3	4.7	7.3	3.0	0.7
SPINDRIFT (DLFPS-FRC/3060)	53.3	7.3	16.0	4.3	0.7
RADAR	28.0	7.3	5.7	4.7	0.7
SANDRINE (BAR 6FR 126)	45.7	6.7	6.0	4.0	0.3
LSD VALUE	55.2	28.2	15.2	9.1	4.1
C.V. (%)	57.6	114.8	56.8	71.2	115.0

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 25C.   PERCENT WEEDS AND BARE SOIL RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                        AT ST. PAUL (FAIRWAY), MN 2/
                              2019 DATA

| | PERCENT WEEDS | | PERCENT OF BARE SPOT | | |
NAME	SUMMER	FALL	SPRING	SUMMER	FALL
MARVEL	27.0	10.7	17.7	6.3	6.3
BOREAL	25.0	18.7	11.7	5.3	6.0
PST-4RUE	46.3	16.7	17.0	8.7	5.0
RAD-FR47	32.3	12.7	13.0	5.7	4.7
CARDINAL II (PPG-FRR 111)	54.3	21.0	12.0	8.0	4.3
DLFPS-FRR/3068	33.7	7.0	10.7	7.0	4.3
DLF-FRR 6162	17.7	9.7	14.0	5.7	4.0
PST-4BEN	43.0	21.7	11.7	4.0	3.7
DLFPS-FRR/3069	39.3	36.3	13.0	5.3	3.3
7C34	54.7	16.7	12.7	5.7	2.3
PST-4ED4	39.3	37.0	13.3	3.3	2.3
KENT	40.7	17.0	16.0	7.3	1.7
NAVIGATOR II	48.7	9.7	15.3	3.3	1.7
RAD-FR33R	17.0	18.3	19.7	8.7	1.7
PST-4DR4	27.0	23.0	11.7	5.7	1.3
LSD VALUE	58.5	30.9	18.8	9.7	5.1
C.V. (%)	57.5	68.5	42.3	54.7	62.3

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 25D.   PERCENT WEEDS AND BARE SOIL RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                          AT ST. PAUL (FAIRWAY), MN 2/
                                 2019 DATA

| | PERCENT WEEDS | | PERCENT OF BARE SPOT | | |
NAME	SUMMER	FALL	SPRING	SUMMER	FALL
RESOLUTE (7H7)	27.7	2.3	2.3	3.3	3.3
PST-4BND	31.7	25.7	7.0	6.0	1.7
SWORD	28.7	19.7	5.0	4.0	1.7
BEACON	26.0	11.0	4.0	3.0	1.3
MINIMUS	35.3	21.3	4.7	5.7	1.0
GLADIATOR (TH456)	22.3	26.7	2.3	5.0	0.7
MNHD-14	29.3	15.7	1.7	4.3	0.7
DLFPS-FL/3060	34.0	6.7	3.3	3.7	0.3
DLFPS-FL/3066	42.3	11.0	1.3	3.7	0.3
QUATRO	53.0	41.7	6.7	3.7	0.3
JETTY (PPG-FL 106)	29.0	6.7	1.0	4.7	0.0
LSD VALUE	72.1	35.5	7.2	6.6	1.6
C.V. (%)	72.6	89.9	84.3	53.1	85.2

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 25E.   PERCENT WEEDS AND BARE SOIL RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                          AT ST. PAUL (FAIRWAY), MN 2/
                                 2019 DATA

| | PERCENT WEEDS | | PERCENT OF BARE SPOT | | |
NAME	SUMMER	FALL	SPRING	SUMMER	FALL
BEUDIN	33.7	8.0	14.7	6.3	2.7
SEABREEZE GT	45.0	9.7	11.3	3.7	2.7
SEAMIST (PPG-FRT 101)	39.3	4.3	8.7	5.3	1.0
BARPEARL (BAR FRT 5002)	26.0	11.7	8.7	2.3	0.3
LSD VALUE	49.8	12.6	10.1	5.3	1.9
C.V. (%)	59.5	65.6	41.4	53.5	53.9

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.

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
7C34	5.6	33.3
BAR VV-VP3-CT	5.3	0.0
BARPEARL (BAR FRT 5002)	5.2	11.1
BEACON	5.5	33.3
BEUDIN	5.1	33.3
BOLSTER (C14-OS3)	5.8	33.3
BOREAL	4.7	0.0
CARDINAL II (PPG-FRR 111)	5.6	22.2
CASCADE	5.1	11.1
CASTLE (RAD-FC32)	5.4	11.1
COMPASS II (PPG-FRC 113)	6.0	44.4
DLF-FRC 3338	5.9	44.4
DLF-FRR 6162	5.7	22.2
DLFPS-FL/3060	5.8	44.4
DLFPS-FL/3066	6.0	44.4
LEEWARD (DLFPS-FRC/3057)	5.9	22.2
SPINDRIFT (DLFPS-FRC/3060)	5.5	22.2
DLFPS-FRR/3068	5.2	0.0
DLFPS-FRR/3069	5.1	0.0
GLADIATOR (TH456)	6.2	66.7
JETTY (PPG-FL 106)	6.2	55.6
KENT	4.9	0.0
MARVEL	5.0	11.1
MINIMUS	5.8	44.4
MNHD-14	6.3	55.6
MOMENTUM (PPG-FRC 114)	5.9	22.2
NAVIGATOR II	4.8	0.0
PST-4BEN	5.5	33.3
PST-4BND	5.5	11.1
PST-4DR4	5.1	11.1
PST-4ED4	4.9	0.0
PST-4RUE	5.3	0.0
QUATRO	5.2	11.1
RAD-FC44	5.4	11.1
RAD-FR33R	5.0	22.2
RAD-FR47	4.8	0.0
RADAR	5.9	44.4
RESOLUTE (7H7)	5.9	55.6
SANDRINE (BAR 6FR 126)	5.1	0.0
SEABREEZE GT	5.0	0.0
SEAMIST (PPG-FRT 101)	5.6	66.7
SWORD	5.7	33.3
LSD VALUE	0.3	
C.V. (%)	12.2	

*/ 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 VALUE 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.