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. Mike Kenna, 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
Dr. Aaron Patton, Purdue University
Mr. Steve Reid, DLF Pickseed USA
Mr. Steve Rackliffe, University of Connecticut

FOR ADDITIONAL REPORTS OR INFORMATION CONTACT:

Kevin Morris, Executive Director
National Turfgrass Evaluation Program
Beltsville Agricultural Research Center-West
Building 005, Room 307
Beltsville, Maryland 20705
kmorris@ntep.org
www.ntep.org

CONTENTS

2014 National Fineleaf Fescue Test - 2018 data

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

CONTENTS (Continued)

A Guide to NTEP Turfgrass Ratings

Introduction

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

General Considerations

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

Turfgrass Quality

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

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

Other Ratings

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

2014 NATIONAL FINELEAF FESCUE TEST

LOCATIONS SUBMITTING DATA FOR 2018

State	Location	Code
Connecticut	Storrs	CT1
Connecticut	Storrs (Traffic Study)	CT1
Connecticut	Storrs	CT2
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Indiana	West Lafayette (Fairway Mowing)	IN1
Massachusetts	Amherst	MA1
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
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New Jersey	North Brunswick (Traffic)	NJ3
North Carolina	Raleigh	NC1
North Dakota	Fargo	ND1
Oregon	Corvallis	OR1
Oregon	Corvallis (Traffic Study)	OR2
Quebec	Quebec City	QE1

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	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	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 2019

TABLE A.   2018 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
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
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	4.1-5.0	FULL SUN	2.6-3.0	NO IRRIGATION
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
MA1	LOAM	5.6-6.0	0-60	241-375	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT 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	2.1-2.5	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	6.6-7.0	271-450	241-375	1.1-2.0	FULL SUN	2.1-2.5	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
QE1	-	-	-	-	-	-	-	-

TABLE B.   LOCATIONS AND DATA COLLECTED IN 2018

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
CT1					X	X	X	X	X	X				X	
CT2					X	X	X	X	X	X				X	
IL1				X	X	X	X	X	X	X			X	X	
IL2			X	X	X	X	X	X	X	X	X				
IN1					X	X	X	X	X	X					
MA1				X	X	X	X	X	X	X	X	X		X	
MD1				X	X	X	X	X	X	X					
MI1					X	X	X	X	X	X			X	X	
MI2					X	X	X	X	X	X				X	
MI3					X	X	X	X	X	X				X	
MN1					X	X	X	X	X	X				X	
MN2					X	X	X	X	X	X			X	X	
MN3					X	X	X	X	X	X				X	
MO1				X	X	X	X	X	X	X			X		
NC1			X	X	X	X	X	X	X	X	X		X		X
ND1					X	X	X	X	X					X	
NJ1				X	X	X	X	X	X	X					
NJ2				X	X	X	X	X	X	X	X		X		
NJ3															
OR1	X	X	X	X	X	X	X	X	X	X	X	X			
OR2	X	X	X	X	X	X	X	X	X	X	X	X			
QE1					X	X	X	X	X	X			X	X	

4

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	MICRODOCHIUM PATCH	DOLLAR SPOT	RED THREAD	BROWN PATCH WARM TEMP.	SUMMER PATCH
CT1				X	X	X					
CT2				X	X	X					
IL1											
IL2				X	X						
IN1		X					X	X			
MA1											X
MD1											
MI1						X					
MI2					X	X		X			
MI3					X	X		X			
MN1				X	X	X					X
MN2					X						
MN3				X	X	X					X
MO1									X		
NC1	X	X			X					X	
ND1	X	X	X	X	X	X					
NJ1											X
NJ2							X	X			
NJ3											
OR1				X	X	X			X		
OR2				X	X	X			X		
QE1					X						

TABLE B. (CONT'D)   LOCATIONS AND DATA COLLECTED IN 2018

LOCATION	PERCENT POA ANNUA	PERCENT WEEDS	SUMMER PATCH JUNE	SUMMER PATCH JULY	DOLLAR SPOT JUNE	DOLLAR SPOT AUGUST	BROWN PATCH JUNE	BROWN PATCH AUGUST	PERCENT WEED RATINGS SPRING	SUMMER	FALL	PERCENT BARE SOIL SPRING	SUMMER	FALL
CT1														
CT2														
IL1														
IL2														
IN1	X				X	X								
MA1														
MD1														
MI1														
MI2														
MI3														
MN1									X	X	X	X	X	X
MN2		X												
MN3									X	X	X	X	X	X
MO1														
NC1							X	X						
ND1														
NJ1			X	X										
NJ2														
* NJ3														
OR1														
OR2														
QE1														

* MORE TRAFFIC DATA FOR NJ3 IN TABLE 8.

```
     TABLE 1A.                    TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1  **/
                                                  2018 DATA
                                 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF  2/


     NAME                        Entry #    NJ2     MD1     MI1     MN2     ND1     QE1     MEAN

   * RESOLUTE (7H7)                 13      5.2     5.7     6.6     7.2     6.7     7.6     6.5
   * JETTY (PPG-FL 106)             19      5.0     5.4     6.5     6.6     6.6     7.1     6.2
   * GLADIATOR (TH456)              12      5.1     5.5     6.4     6.6     6.5     7.0     6.2
     DLFPS-FL/3066                   4      5.1     5.5     6.5     6.5     6.5     7.0     6.2
     DLFPS-FL/3060                   6      5.0     5.5     6.3     6.6     6.1     7.1     6.1
     MNHD-14                         8      4.8     5.2     6.3     6.2     6.3     6.7     5.9
     MINIMUS                         1      4.7     5.0     6.3     6.1     6.5     6.6     5.9
   * BEACON                         17      4.6     5.0     6.1     6.2     6.2     6.6     5.8
   * SWORD                          14      4.6     4.9     6.0     6.1     6.2     6.4     5.7
   * COMPASS II (PPG-FRC 113)       23      5.0     5.4     5.8     5.6     5.4     5.6     5.5
     DLFPS-FRC/3057                 38      4.9     5.2     5.8     5.5     5.4     5.6     5.4
     DLF-FRC 3338                   40      4.8     5.1     5.8     5.5     5.5     5.6     5.4
   * BOLSTER (C14-OS3)              29      4.7     5.1     5.7     5.5     5.4     5.6     5.4
   * RADAR                          16      4.8     5.1     5.7     5.5     5.4     5.5     5.4
     PST-4BND                       36      4.0     4.1     5.8     5.6     6.6     5.8     5.3
     BAR VV-VP3-CT                  27      4.2     4.4     5.5     5.4     5.8     5.3     5.1
   * MOMENTUM (PPG-FRC 114)         20      4.6     4.9     5.6     5.1     5.3     5.1     5.1
   * RAD-FC44                       31      4.3     4.5     5.5     5.2     5.6     5.1     5.0
   * CASTLE (RAD-FC32)              25      4.1     4.3     5.5     5.1     5.6     5.1     5.0
   * SEAMIST (PPG-FRT 101)          21      4.2     4.4     5.4     5.1     5.4     4.9     4.9
     DLFPS-FRC/3060                  5      4.3     4.5     5.4     4.9     5.2     4.9     4.9
   * QUATRO                         10      3.8     4.1     5.4     5.0     5.4     5.4     4.9
     PST-4BEN                       35      3.7     3.7     5.5     4.6     6.0     4.7     4.7
   * CARDINAL II (PPG-FRR 111)      22      3.8     3.8     5.5     4.5     5.9     4.6     4.7
     7C34                            3      3.7     3.7     5.5     4.4     5.9     4.6     4.6
   * SANDRINE (BAR 6FR 126)         28      3.6     3.7     5.1     4.9     5.6     4.7     4.6
     PST-4DR4                       33      3.6     3.6     5.3     4.5     5.8     4.6     4.6
   * BEUDIN                         42      3.3     3.2     5.3     4.7     6.3     4.6     4.6
     PST-4RUE                       34      3.6     3.5     5.4     4.3     5.9     4.5     4.5
     DLF-FRR 6162                   41      3.6     3.6     5.4     4.3     5.7     4.4     4.5
   * CASCADE                        39      3.6     3.7     5.2     4.3     5.4     4.4     4.4
   * SEABREEZE GT                   15      3.3     3.4     4.9     4.5     5.5     4.5     4.3
   * RAD-FR47                       32      3.2     3.1     5.2     4.2     6.0     4.3     4.3
     DLFPS-FRR/3068                  9      3.3     3.3     5.2     4.2     5.8     4.1     4.3
   * MARVEL                          2      3.3     3.3     5.2     4.1     5.7     4.3     4.3
     RAD-FR33R                      30      3.2     3.1     5.2     4.1     5.9     4.0     4.3
     PST-4ED4                       37      3.3     3.4     5.0     4.1     5.3     4.2     4.2
   * BARPEARL (BAR FRT 5002)        26      3.0     2.8     5.0     4.3     6.0     4.1     4.2
     DLFPS-FRR/3069                  7      3.1     3.0     5.1     3.9     5.8     4.1     4.2
   * KENT                           24      3.1     2.9     5.1     3.9     5.9     4.0     4.2
   * NAVIGATOR II                   18      3.1     3.1     5.0     3.8     5.5     4.0     4.1
   * BOREAL                         11      2.7     2.6     4.7     3.6     5.5     3.6     3.8

     LSD VALUE                              1.1     1.1     1.1     1.1     1.1     1.1     1.1
     C.V. (%)                              17.2    16.6    12.4    13.6    11.9    13.3    13.9
```

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2019

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

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

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

```
TABLE 1B.                    TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                             GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1  */
                                            2018 DATA

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

NAME                        Entry #    NJ2     MD1     MI1     MN2     ND1     QE1     MEAN

COMPASS II (PPG-FRC 113)      23       5.0     5.4     5.8     5.6     5.4     5.6     5.5
DLFPS-FRC/3057                38       4.9     5.2     5.8     5.5     5.4     5.6     5.4
DLF-FRC 3338                  40       4.8     5.1     5.8     5.5     5.5     5.6     5.4
BOLSTER (C14-OS3)             29       4.7     5.1     5.7     5.5     5.4     5.6     5.4
RADAR                         16       4.8     5.1     5.7     5.5     5.4     5.5     5.4
BAR VV-VP3-CT                 27       4.2     4.4     5.5     5.4     5.8     5.3     5.1
MOMENTUM (PPG-FRC 114)        20       4.6     4.9     5.6     5.1     5.3     5.1     5.1
RAD-FC44                      31       4.3     4.5     5.5     5.2     5.6     5.1     5.0
CASTLE (RAD-FC32)             25       4.1     4.3     5.5     5.1     5.6     5.1     5.0
DLFPS-FRC/3060                5        4.3     4.5     5.4     4.9     5.2     4.9     4.9
SANDRINE (BAR 6FR 126)        28       3.6     3.7     5.1     4.9     5.6     4.7     4.6
CASCADE                       39       3.6     3.7     5.2     4.3     5.4     4.4     4.4

LSD VALUE                              1.1     1.1     1.1     1.1     1.1     1.1     1.1
C.V. (%)                               15.7    14.9    12.4    13.2    12.6    13.3    13.6
```

*/ 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 1C.               TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                          GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1  */
                                          2018 DATA

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


NAME                          Entry #    NJ2     MD1     MI1     MN2     ND1     QE1     MEAN

PST-4BEN                        35       3.7     3.7     5.5     4.6     6.0     4.7     4.7
CARDINAL II (PPG-FRR 111)       22       3.8     3.8     5.5     4.5     5.9     4.6     4.7
7C34                             3       3.7     3.7     5.5     4.4     5.9     4.6     4.6
PST-4DR4                        33       3.6     3.6     5.3     4.5     5.8     4.6     4.6
PST-4RUE                        34       3.6     3.5     5.4     4.3     5.9     4.5     4.5
DLF-FRR 6162                    41       3.6     3.6     5.4     4.3     5.7     4.4     4.5
RAD-FR47                        32       3.2     3.1     5.2     4.2     6.0     4.3     4.3
DLFPS-FRR/3068                   9       3.3     3.3     5.2     4.2     5.8     4.1     4.3
MARVEL                           2       3.3     3.3     5.2     4.1     5.7     4.3     4.3
RAD-FR33R                       30       3.2     3.1     5.2     4.1     5.9     4.0     4.3
PST-4ED4                        37       3.3     3.4     5.0     4.1     5.3     4.2     4.2
DLFPS-FRR/3069                   7       3.1     3.0     5.1     3.9     5.8     4.1     4.2
KENT                            24       3.1     2.9     5.1     3.9     5.9     4.0     4.2
NAVIGATOR II                    18       3.1     3.1     5.0     3.8     5.5     4.0     4.1
BOREAL                          11       2.7     2.6     4.7     3.6     5.5     3.6     3.8

LSD VALUE                                1.1     1.1     1.1     1.1     1.1     1.1     1.1
C.V. (%)                                20.5    20.8    13.2    16.5    12.0    16.2    15.9


*/  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 1D.   TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                             GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
                                            2018 DATA

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

NAME	Entry #	NJ2	MD1	MI1	MN2	ND1	QE1	MEAN
RESOLUTE (7H7)	13	5.2	5.7	6.6	7.2	6.7	7.6	6.5
JETTY (PPG-FL 106)	19	5.0	5.4	6.5	6.6	6.6	7.1	6.2
GLADIATOR (TH456)	12	5.1	5.5	6.4	6.6	6.5	7.0	6.2
DLFPS-FL/3066	4	5.1	5.5	6.5	6.5	6.5	7.0	6.2
DLFPS-FL/3060	6	5.0	5.5	6.3	6.6	6.1	7.1	6.1
MNHD-14	8	4.8	5.2	6.3	6.2	6.3	6.7	5.9
MINIMUS	1	4.7	5.0	6.3	6.1	6.5	6.6	5.9
BEACON	17	4.6	5.0	6.1	6.2	6.2	6.6	5.8
SWORD	14	4.6	4.9	6.0	6.1	6.2	6.4	5.7
PST-4BND	36	4.0	4.1	5.8	5.6	6.6	5.8	5.3
QUATRO	10	3.8	4.1	5.4	5.0	5.4	5.4	4.9
LSD VALUE		1.1	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)		14.6	13.6	11.2	11.0	10.9	10.4	11.8

TABLE 1E.   TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                             GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
                                            2018 DATA

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

NAME	Entry #	NJ2	MD1	MI1	MN2	ND1	QE1	MEAN
SEAMIST (PPG-FRT 101)	21	4.2	4.4	5.4	5.1	5.4	4.9	4.9
BEUDIN	42	3.3	3.2	5.3	4.7	6.3	4.6	4.6
SEABREEZE GT	15	3.3	3.4	4.9	4.5	5.5	4.5	4.3
BARPEARL (BAR FRT 5002)	26	3.0	2.8	5.0	4.3	6.0	4.1	4.2
LSD VALUE		1.1	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)		20.2	20.0	13.4	14.9	11.9	15.2	15.4

*/ 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 2A.        TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                2018 DATA
                 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF  2/


NAME                            Entry #    CT1      NJ1      MO1      OR1      MEAN

COMPASS II (PPG-FRC 113)          23       7.3      9.0      6.8      6.2      7.3
MOMENTUM (PPG-FRC 114)            20       7.0      9.1      6.5      6.1      7.2
DLFPS-FRC/3057                    38       6.9      8.9      6.3      6.1      7.0
RADAR                            16       7.1      8.0      6.7      6.2      7.0
DLF-FRC 3338                      40       6.7      8.9      6.0      6.0      6.9
BOLSTER (C14-OS3)                29       6.6      8.9      5.9      5.9      6.8
DLFPS-FRC/3060                    5       6.5      8.2      5.9      5.8      6.6
CARDINAL II (PPG-FRR 111)         22       5.7      8.7      4.9      6.1      6.4
7C34                              3       5.7      8.8      4.8      6.1      6.3
DLF-FRR 6162                      41       5.6      8.7      4.7      6.0      6.3
SEAMIST (PPG-FRT 101)            21       6.4      6.4      6.0      6.0      6.2
PST-4BEN                         35       5.5      8.5      4.6      6.1      6.2
RAD-FC44                         31       6.2      6.8      5.7      6.1      6.2
CASCADE                          39       5.7      8.4      4.9      5.8      6.2
PST-4RUE                         34       5.4      8.8      4.4      6.1      6.1
DLFPS-FL/3066                     4       5.2      9.0      4.0      6.1      6.1
MNHD-14                           8       5.1      9.1      3.9      6.0      6.0
JETTY (PPG-FL 106)               19       5.0      9.1      3.7      6.1      6.0
CASTLE (RAD-FC32)                25       5.8      6.8      5.3      6.0      6.0
MINIMUS                           1       5.0      9.0      3.8      6.1      6.0
PST-4DR4                         33       5.2      7.9      4.3      5.9      5.8
GLADIATOR (TH456)                12       5.2      8.0      4.1      6.1      5.8
NAVIGATOR II                     18       5.0      8.7      3.9      5.7      5.8
PST-4ED4                         37       5.1      8.4      4.2      5.6      5.8
MARVEL                            2       5.0      8.5      4.0      5.8      5.8
DLFPS-FL/3060                     6       5.0      8.7      3.8      5.7      5.8
DLFPS-FRR/3068                    9       5.4      6.7      4.7      6.1      5.7
RAD-FR33R                         30       5.2      6.8      4.5      6.2      5.7
DLFPS-FRR/3069                    7       4.8      7.9      3.9      5.9      5.6
BAR VV-VP3-CT                    27       5.8      4.8      5.5      6.1      5.6
KENT                             24       4.8      7.7      3.8      5.9      5.6
SWORD                            14       5.1      6.7      4.3      6.0      5.5
BEACON                           17       4.8      7.5      3.7      5.8      5.5
RAD-FR47                         32       4.9      6.8      4.0      6.0      5.4
QUATRO                           10       4.5      8.5      3.4      5.3      5.4
RESOLUTE (7H7)                   13       4.7      6.4      3.7      6.1      5.2
BOREAL                           11       4.8      6.1      4.1      5.7      5.1
PST-4BND                         36       4.4      5.5      3.5      6.1      4.9
SANDRINE (BAR 6FR 126)           28       5.2      3.6      4.9      5.9      4.9
SEABREEZE GT                     15       4.6      5.2      4.0      5.5      4.8
BEUDIN                           42       4.5      3.6      4.0      6.2      4.6
BARPEARL (BAR FRT 5002)          26       4.5      3.4      4.0      6.0      4.5

LSD VALUE                                  1.1      1.1      1.1      1.1      1.1
C.V. (%)                                  12.7      9.2     14.9     11.6     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.

```
      TABLE 2B.          TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                         GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                          2018 DATA

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


      NAME                            Entry #    CT1      NJ1      MO1      OR1      MEAN

      COMPASS II (PPG-FRC 113)          23       7.3      9.0      6.8      6.2      7.3
      MOMENTUM (PPG-FRC 114)            20       7.0      9.1      6.5      6.1      7.2
      DLFPS-FRC/3057                    38       6.9      8.9      6.3      6.1      7.0
      RADAR                             16       7.1      8.0      6.7      6.2      7.0
      DLF-FRC 3338                      40       6.7      8.9      6.0      6.0      6.9
      BOLSTER (C14-OS3)                 29       6.6      8.9      5.9      5.9      6.8
      DLFPS-FRC/3060                    5        6.5      8.2      5.9      5.8      6.6
      RAD-FC44                          31       6.2      6.8      5.7      6.1      6.2
      CASCADE                           39       5.7      8.4      4.9      5.8      6.2
      CASTLE (RAD-FC32)                 25       5.8      6.8      5.3      6.0      6.0
      BAR VV-VP3-CT                     27       5.8      4.8      5.5      6.1      5.6
      SANDRINE (BAR 6FR 126)            28       5.2      3.6      4.9      5.9      4.9

      LSD VALUE                                  1.1      1.1      1.1      1.1      1.1
      C.V. (%)                                   10.8     9.1      11.8     11.5     10.7
```

*/ 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.

```
        TABLE 2C.   TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                     GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                        2018 DATA

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

        NAME                        Entry #    CT1     NJ1     MO1     OR1     MEAN

        CARDINAL II (PPG-FRR 111)     22       5.7     8.7     4.9     6.1     6.4
        7C34                           3       5.7     8.8     4.8     6.1     6.3
        DLF-FRR 6162                  41       5.6     8.7     4.7     6.0     6.3
        PST-4BEN                      35       5.5     8.5     4.6     6.1     6.2
        PST-4RUE                      34       5.4     8.8     4.4     6.1     6.1
        PST-4DR4                      33       5.2     7.9     4.3     5.9     5.8
        NAVIGATOR II                  18       5.0     8.7     3.9     5.7     5.8
        PST-4ED4                      37       5.1     8.4     4.2     5.6     5.8
        MARVEL                         2       5.0     8.5     4.0     5.8     5.8
        DLFPS-FRR/3068                 9       5.4     6.7     4.7     6.1     5.7
        RAD-FR33R                     30       5.2     6.8     4.5     6.2     5.7
        DLFPS-FRR/3069                 7       4.8     7.9     3.9     5.9     5.6
        KENT                          24       4.8     7.7     3.8     5.9     5.6
        RAD-FR47                      32       4.9     6.8     4.0     6.0     5.4
        BOREAL                        11       4.8     6.1     4.1     5.7     5.1

        LSD VALUE                              1.1     1.1     1.1     1.1     1.1
        C.V. (%)                              13.3     8.7    16.0    11.6    11.8
```

*/ 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 2D.        TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                            GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                          2018 DATA


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

        NAME                            Entry #    CT1      NJ1      MO1      OR1      MEAN

        DLFPS-FL/3066                      4       5.2      9.0      4.0      6.1      6.1
        MNHD-14                            8       5.1      9.1      3.9      6.0      6.0
        JETTY (PPG-FL 106)                19       5.0      9.1      3.7      6.1      6.0
        MINIMUS                            1       5.0      9.0      3.8      6.1      6.0
        GLADIATOR (TH456)                 12       5.2      8.0      4.1      6.1      5.8
        DLFPS-FL/3060                      6       5.0      8.7      3.8      5.7      5.8
        SWORD                             14       5.1      6.7      4.3      6.0      5.5
        BEACON                            17       4.8      7.5      3.7      5.8      5.5
        QUATRO                            10       4.5      8.5      3.4      5.3      5.4
        RESOLUTE (7H7)                    13       4.7      6.4      3.7      6.1      5.2
        PST-4BND                          36       4.4      5.5      3.5      6.1      4.9

        LSD VALUE                                  1.1      1.1      1.1      1.1      1.1
        C.V. (%)                                  14.1      8.7     18.1     11.7     12.2




        TABLE 2E.        TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                            GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2  */
                                          2018 DATA


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


        NAME                            Entry #    CT1      NJ1      MO1      OR1      MEAN

        SEAMIST (PPG-FRT 101)             21       6.4      6.4      6.0      6.0      6.2
        SEABREEZE GT                      15       4.6      5.2      4.0      5.5      4.8
        BEUDIN                            42       4.5      3.6      4.0      6.2      4.6
        BARPEARL (BAR FRT 5002)           26       4.5      3.4      4.0      6.0      4.5

        LSD VALUE                                  1.1      1.1      1.1      1.1      1.1
        C.V. (%)                                  13.8     14.9     15.3     11.6     13.7
```

*/ 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.

```
                    TABLE 3A.  TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                          GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3  */
                                        2018 DATA
                          TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF  2/


        NAME                            Entry #    MA1       NC1       IL1      MEAN

        7C34                              3        4.1       5.3       4.0       4.5
        CARDINAL II (PPG-FRR 111)        22        4.1       5.3       4.0       4.4
        PST-4RUE                         34        4.1       5.2       3.9       4.4
        PST-4BEN                         35        4.0       5.1       3.9       4.4
        MOMENTUM (PPG-FRC 114)           20        3.8       5.4       3.8       4.3
        DLF-FRR 6162                     41        4.0       5.2       3.9       4.3
        COMPASS II (PPG-FRC 113)         23        3.8       5.3       3.8       4.3
        RAD-FR33R                        30        4.0       4.8       3.9       4.2
        DLFPS-FRC/3057                   38        3.7       5.1       3.7       4.2
        RADAR                            16        3.7       5.0       3.8       4.2
        DLF-FRC 3338                     40        3.7       5.1       3.7       4.1
        DLFPS-FRR/3068                    9        3.9       4.7       3.8       4.1
        NAVIGATOR II                     18        3.8       5.0       3.6       4.1
        DLFPS-FRR/3069                    7        3.8       4.8       3.7       4.1
        KENT                             24        3.9       4.8       3.7       4.1
        MARVEL                            2        3.8       4.9       3.6       4.1
        CASCADE                          39        3.6       4.9       3.6       4.0
        BOLSTER (C14-OS3)                29        3.5       4.9       3.6       4.0
        PST-4DR4                         33        3.7       4.7       3.6       4.0
        RAD-FR47                         32        3.7       4.5       3.7       4.0
        DLFPS-FRC/3060                    5        3.5       4.9       3.5       4.0
        PST-4ED4                         37        3.5       4.7       3.4       3.9
        MINIMUS                           1        3.5       4.5       3.5       3.9
        RAD-FC44                         31        3.5       4.5       3.6       3.8
        SEAMIST (PPG-FRT 101)            21        3.4       4.4       3.5       3.8
        MNHD-14                           8        3.4       4.4       3.4       3.7
        DLFPS-FL/3066                     4        3.4       4.4       3.4       3.7
        CASTLE (RAD-FC32)                25        3.4       4.4       3.4       3.7
        JETTY (PPG-FL 106)               19        3.4       4.4       3.4       3.7
        BOREAL                           11        3.4       4.2       3.3       3.7
        GLADIATOR (TH456)                12        3.2       4.1       3.3       3.5
        BAR VV-VP3-CT                    27        3.2       3.8       3.3       3.4
        BEUDIN                           42        3.3       3.5       3.4       3.4
        PST-4BND                         36        3.2       3.6       3.3       3.4
        BARPEARL (BAR FRT 5002)          26        3.2       3.5       3.3       3.3
        SWORD                            14        3.0       3.8       3.2       3.3
        BEACON                           17        3.0       3.8       3.1       3.3
        DLFPS-FL/3060                     6        2.9       3.9       3.0       3.2
        QUATRO                           10        2.8       3.9       2.8       3.2
        SEABREEZE GT                     15        2.8       3.5       2.9       3.1
        SANDRINE (BAR 6FR 126)           28        2.9       3.3       3.0       3.0
        RESOLUTE (7H7)                   13        2.8       3.3       3.0       3.0

        LSD VALUE                                  1.1       1.1       1.1       1.1
        C.V. (%)                                  19.7      15.4      19.7      18.0
```

*/ 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 3B.       TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                        GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3  */
                                       2018 DATA

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


        NAME                             Entry #    MA1      NC1      IL1      MEAN

        MOMENTUM (PPG-FRC 114)             20       3.8      5.4      3.8      4.3
        COMPASS II (PPG-FRC 113)           23       3.8      5.3      3.8      4.3
        DLFPS-FRC/3057                     38       3.7      5.1      3.7      4.2
        RADAR                              16       3.7      5.0      3.8      4.2
        DLF-FRC 3338                       40       3.7      5.1      3.7      4.1
        CASCADE                            39       3.6      4.9      3.6      4.0
        BOLSTER (C14-OS3)                  29       3.5      4.9      3.6      4.0
        DLFPS-FRC/3060                      5       3.5      4.9      3.5      4.0
        RAD-FC44                           31       3.5      4.5      3.6      3.8
        CASTLE (RAD-FC32)                  25       3.4      4.4      3.4      3.7
        BAR VV-VP3-CT                      27       3.2      3.8      3.3      3.4
        SANDRINE (BAR 6FR 126)             28       2.9      3.3      3.0      3.0

        LSD VALUE                                   1.1      1.1      1.1      1.1
        C.V. (%)                                   19.6     14.7     19.4     17.6
```

*/ 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 3C.    TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                       GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3  */
                                          2018 DATA

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

        NAME                          Entry #    MA1      NC1      IL1      MEAN

        7C34                             3       4.1      5.3      4.0      4.5
        CARDINAL II (PPG-FRR 111)       22       4.1      5.3      4.0      4.4
        PST-4RUE                        34       4.1      5.2      3.9      4.4
        PST-4BEN                        35       4.0      5.1      3.9      4.4
        DLF-FRR 6162                    41       4.0      5.2      3.9      4.3
        RAD-FR33R                       30       4.0      4.8      3.9      4.2
        DLFPS-FRR/3068                   9       3.9      4.7      3.8      4.1
        NAVIGATOR II                    18       3.8      5.0      3.6      4.1
        DLFPS-FRR/3069                   7       3.8      4.8      3.7      4.1
        KENT                            24       3.9      4.8      3.7      4.1
        MARVEL                           2       3.8      4.9      3.6      4.1
        PST-4DR4                        33       3.7      4.7      3.6      4.0
        RAD-FR47                        32       3.7      4.5      3.7      4.0
        PST-4ED4                        37       3.5      4.7      3.4      3.9
        BOREAL                          11       3.4      4.2      3.3      3.7

        LSD VALUE                                1.1      1.1      1.1      1.1
        C.V. (%)                                18.0     14.2     18.5     16.7
```

*/ 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.

```
        TABLE 3D.        TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                        GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3  */
                                        2018 DATA


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

        NAME                          Entry #    MA1      NC1      IL1     MEAN

        MINIMUS                          1       3.5      4.5      3.5      3.9
        MNHD-14                          8       3.4      4.4      3.4      3.7
        DLFPS-FL/3066                    4       3.4      4.4      3.4      3.7
        JETTY (PPG-FL 106)              19       3.4      4.4      3.4      3.7
        GLADIATOR (TH456)               12       3.2      4.1      3.3      3.5
        PST-4BND                        36       3.2      3.6      3.3      3.4
        SWORD                           14       3.0      3.8      3.2      3.3
        BEACON                          17       3.0      3.8      3.1      3.3
        DLFPS-FL/3060                    6       2.9      3.9      3.0      3.2
        QUATRO                          10       2.8      3.9      2.8      3.2
        RESOLUTE (7H7)                  13       2.8      3.3      3.0      3.0

        LSD VALUE                               1.1      1.1      1.1      1.1
        C.V. (%)                               22.1     17.3     21.5     20.0



        TABLE 3E.       TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                        GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3  */
                                        2018 DATA


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

        NAME                          Entry #    MA1      NC1      IL1     MEAN

        SEAMIST (PPG-FRT 101)           21       3.4      4.4      3.5      3.8
        BEUDIN                          42       3.3      3.5      3.4      3.4
        BARPEARL (BAR FRT 5002)         26       3.2      3.5      3.3      3.3
        SEABREEZE GT                    15       2.8      3.5      2.9      3.1

        LSD VALUE                               1.1      1.1      1.1      1.1
        C.V. (%)                               21.6     18.6     21.2     20.4
```

*/ 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 4A.       MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
                        GROWN ON A FAIRWAY AT THREE LOCATIONS IN THE U.S.
                                      2018 DATA

                        TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

                  NAME                        IN1    MI2    MN1    MEAN

                  BOLSTER (C14-OS3)           6.0    6.3    7.1    6.5
                  DLFPS-FRC/3057              5.3    6.4    7.1    6.2
                  RESOLUTE (7H7)              4.4    6.6    7.3    6.1
                  SEAMIST (PPG-FRT 101)       5.8    5.8    6.6    6.0
                  COMPASS II (PPG-FRC 113)    5.3    6.6    6.2    6.0
                  RADAR                       5.2    6.3    6.4    6.0
                  RAD-FC44                    5.4    5.9    6.4    5.9
                  DLFPS-FRC/3060              5.6    5.8    6.2    5.9
                  GLADIATOR (TH456)           5.3    5.7    6.7    5.9
                  BAR VV-VP3-CT               5.3    6.3    6.0    5.9
                  JETTY (PPG-FL 106)          4.5    6.2    6.8    5.8
                  MOMENTUM (PPG-FRC 114)      5.1    6.4    5.9    5.8
                  DLFPS-FL/3060               4.6    5.8    6.9    5.8
                  DLF-FRC 3338                5.3    6.2    5.8    5.8
                  BEACON                      4.8    5.7    6.7    5.7
                  DLFPS-FL/3066               4.2    6.1    6.7    5.7
                  SANDRINE (BAR 6FR 126)      5.0    5.1    6.4    5.5
                  MNHD-14                     4.2    5.9    6.3    5.5
                  CASTLE (RAD-FC32)           4.7    5.4    6.2    5.4
                  QUATRO                      4.7    6.2    5.3    5.4
                  MINIMUS                     4.1    5.4    5.9    5.1
                  SWORD                       3.6    5.7    6.0    5.1
                  CASCADE                     5.3    4.7    4.9    5.0
                  BARPEARL (BAR FRT 5002)     3.7    4.2    6.2    4.7
                  PST-4BND                    3.7    5.3    4.8    4.6
                  CARDINAL II (PPG-FRR 111)   3.8    5.4    4.3    4.5
                  BEUDIN                      3.7    4.5    5.2    4.5
                  DLF-FRR 6162                3.7    5.4    4.2    4.4
                  SEABREEZE GT                3.8    4.8    4.7    4.4
                  PST-4BEN                    3.6    5.4    4.3    4.4
                  7C34                        3.3    5.1    4.6    4.4
                  PST-4ED4                    3.3    5.7    4.1    4.4
                  PST-4RUE                    4.1    5.1    3.7    4.3
                  DLFPS-FRR/3068              3.8    4.5    4.6    4.3
                  PST-4DR4                    3.9    4.9    3.8    4.2
                  RAD-FR33R                   3.6    4.4    4.2    4.0
                  NAVIGATOR II                3.4    4.2    4.4    4.0
                  KENT                        3.8    3.9    4.2    4.0
                  DLFPS-FRR/3069              3.4    3.8    4.5    3.9
                  RAD-FR47                    3.8    4.0    3.7    3.8
                  MARVEL                      3.1    4.0    4.3    3.8
                  BOREAL                      3.2    3.5    3.6    3.4

                  LSD VALUE                   1.2    0.7    0.9    0.5
                  C.V. (%)                   16.7    8.4    9.9   11.4
```

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

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

TABLE 4B.   MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN ON A FAIRWAY AT THREE LOCATIONS IN THE U.S.
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	IN1	MI2	MN1	MEAN
BOLSTER (C14-OS3)	6.0	6.3	7.1	6.5
DLFPS-FRC/3057	5.3	6.4	7.1	6.2
COMPASS II (PPG-FRC 113)	5.3	6.6	6.2	6.0
RADAR	5.2	6.3	6.4	6.0
RAD-FC44	5.4	5.9	6.4	5.9
DLFPS-FRC/3060	5.6	5.8	6.2	5.9
BAR VV-VP3-CT	5.3	6.3	6.0	5.9
MOMENTUM (PPG-FRC 114)	5.1	6.4	5.9	5.8
DLF-FRC 3338	5.3	6.2	5.8	5.8
SANDRINE (BAR 6FR 126)	5.0	5.1	6.4	5.5
CASTLE (RAD-FC32)	4.7	5.4	6.2	5.4
CASCADE	5.3	4.7	4.9	5.0
LSD VALUE	0.8	0.8	0.7	0.4
C.V. (%)	9.7	8.3	6.9	8.2

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

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

TABLE 4C.   MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN ON A FAIRWAY AT THREE LOCATIONS IN THE U.S.
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	IN1	MI2	MN1	MEAN
CARDINAL II (PPG-FRR 111)	3.8	5.4	4.3	4.5
DLF-FRR 6162	3.7	5.4	4.2	4.4
PST-4BEN	3.6	5.4	4.3	4.4
7C34	3.3	5.1	4.6	4.4
PST-4ED4	3.3	5.7	4.1	4.4
PST-4RUE	4.1	5.1	3.7	4.3
DLFPS-FRR/3068	3.8	4.5	4.6	4.3
PST-4DR4	3.9	4.9	3.8	4.2
RAD-FR33R	3.6	4.4	4.2	4.0
NAVIGATOR II	3.4	4.2	4.4	4.0
KENT	3.8	3.9	4.2	4.0
DLFPS-FRR/3069	3.4	3.8	4.5	3.9
RAD-FR47	3.8	4.0	3.7	3.8
MARVEL	3.1	4.0	4.3	3.8
BOREAL	3.2	3.5	3.6	3.4
LSD VALUE	1.1	0.6	0.8	0.5
C.V. (%)	19.1	7.6	12.4	12.9

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

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

```
        TABLE 4D.      MEAN TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                       GROWN ON A FAIRWAY AT THREE LOCATIONS IN THE U.S.
                                    2018 DATA


                       TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF


                 NAME                 IN1    MI2    MN1     MEAN


                 RESOLUTE (7H7)        4.4    6.6    7.3     6.1
                 GLADIATOR (TH456)     5.3    5.7    6.7     5.9
                 JETTY (PPG-FL 106)    4.5    6.2    6.8     5.8
                 DLFPS-FL/3060         4.6    5.8    6.9     5.8
                 BEACON                4.8    5.7    6.7     5.7
                 DLFPS-FL/3066         4.2    6.1    6.7     5.7
                 MNHD-14               4.2    5.9    6.3     5.5
                 QUATRO                4.7    6.2    5.3     5.4
                 MINIMUS               4.1    5.4    5.9     5.1
                 SWORD                 3.6    5.7    6.0     5.1
                 PST-4BND              3.7    5.3    4.8     4.6


                 LSD VALUE             1.7    0.5    1.1     0.7
                 C.V. (%)             23.0    5.7   11.1    13.0




         TABLE 4E.   MEAN TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                       GROWN ON A FAIRWAY AT THREE LOCATIONS IN THE U.S.
                                    2018 DATA


                       TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF


                 NAME                     IN1    MI2    MN1     MEAN


                 SEAMIST (PPG-FRT 101)     5.8    5.8    6.6     6.0
                 BARPEARL (BAR FRT 5002)   3.7    4.2    6.2     4.7
                 BEUDIN                    3.7    4.5    5.2     4.5
                 SEABREEZE GT              3.8    4.8    4.7     4.4


                 LSD VALUE                 1.0    1.2    0.6     0.6
                 C.V. (%)                 13.2   15.9    6.7    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.
```

TABLE 5A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                       GROWN UNDER TRAFFIC STRESS AT STORRS, CT   1/
                                                    2018 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	98.0	88.3	65.0	6.3	7.0	6.0	6.0	5.7	5.7	6.1
BOLSTER (C14-OS3)	6.7	97.3	75.0	38.3	6.7	7.7	7.0	4.7	4.0	4.3	5.7
BAR VV-VP3-CT	6.7	98.7	80.0	46.7	6.3	6.7	6.3	5.0	5.0	4.0	5.6
MOMENTUM (PPG-FRC 114)	6.3	97.7	75.0	41.7	6.0	7.3	5.7	4.7	5.0	5.0	5.6
COMPASS II (PPG-FRC 113)	6.7	69.3	61.7	40.0	6.7	7.0	6.3	4.0	4.0	4.3	5.4
7C34	5.7	93.0	85.0	33.3	5.3	6.7	5.7	4.7	4.0	4.0	5.1
DLF-FRC 3338	6.3	95.7	63.3	30.0	6.3	7.0	5.7	4.3	3.3	4.0	5.1
DLFPS-FRC/3057	6.3	98.0	73.3	55.0	6.3	6.0	5.7	4.0	3.7	4.7	5.1
DLFPS-FRC/3060	6.3	91.3	73.3	35.0	5.0	6.0	5.3	4.7	3.7	4.0	4.8
CASTLE (RAD-FC32)	7.7	95.7	55.0	16.7	6.7	6.3	5.3	3.3	3.0	2.7	4.6
SEAMIST (PPG-FRT 101)	6.3	94.0	68.3	31.7	6.0	6.3	5.3	3.3	3.7	3.0	4.6
QUATRO	6.0	94.7	76.7	30.0	5.0	5.3	5.0	4.7	3.7	2.7	4.4
CASCADE	6.3	95.0	63.3	38.3	5.3	4.7	4.7	4.0	4.0	3.3	4.3
MARVEL	5.7	89.3	66.7	20.0	5.3	5.7	4.7	3.3	4.0	2.7	4.3
RAD-FC44	7.3	92.7	41.7	25.0	6.3	6.3	5.0	1.7	2.7	2.3	4.1
DLF-FRR 6162	6.0	93.3	53.3	16.7	5.0	5.3	4.7	2.7	3.3	2.3	3.9
NAVIGATOR II	5.7	88.0	50.0	21.7	5.0	4.7	4.0	3.7	3.0	2.3	3.8
RAD-FR33R	7.3	89.3	58.3	21.7	5.3	4.7	4.0	3.0	3.0	3.0	3.8
KENT	5.0	91.3	46.7	13.3	4.3	4.7	4.0	3.0	3.0	3.0	3.7
CARDINAL II (PPG-FRR 111)	5.7	90.0	58.3	11.0	4.7	4.7	4.3	2.7	2.7	2.3	3.6
PST-4BEN	5.7	89.7	63.3	23.3	4.3	4.3	4.0	3.7	2.7	2.7	3.6
PST-4DR4	4.7	86.7	40.0	15.0	4.7	4.7	4.0	2.7	3.3	2.3	3.6
PST-4ED4	6.3	89.3	26.7	21.7	4.3	4.7	4.0	2.3	3.3	3.0	3.6
RAD-FR47	6.3	88.0	48.3	41.0	4.7	4.3	4.3	2.7	3.0	2.7	3.6
SEABREEZE GT	5.3	91.3	40.0	6.7	5.0	5.0	4.3	2.3	2.3	2.7	3.6
BARPEARL (BAR FRT 5002)	4.7	87.3	41.7	3.7	5.0	5.0	5.0	1.7	1.3	1.7	3.3
BOREAL	5.0	88.7	45.0	20.0	4.0	5.0	4.0	2.3	2.7	2.0	3.3
DLFPS-FRR/3068	4.7	87.3	43.3	7.0	4.3	5.0	3.7	2.3	2.3	2.3	3.3
JETTY (PPG-FL 106)	6.0	74.7	45.0	10.0	4.0	4.3	3.7	2.3	3.3	2.3	3.3
PST-4RUE	5.7	72.7	43.3	14.3	4.3	4.0	3.7	2.7	3.0	2.0	3.3
RESOLUTE (7H7)	6.0	68.0	37.7	17.0	4.0	4.0	4.0	2.0	3.3	2.0	3.2
DLFPS-FRR/3069	5.0	88.3	28.3	6.0	4.0	4.3	3.7	2.0	2.0	2.3	3.1
BEUDIN	4.7	81.3	46.7	4.3	4.0	4.7	5.3	1.3	1.0	1.7	3.0
DLFPS-FL/3060	6.0	83.7	30.0	6.7	4.0	3.3	3.3	2.3	2.3	2.0	2.9
MNHD-14	5.0	63.3	37.7	16.0	4.0	3.7	3.7	2.0	2.7	1.7	2.9
SWORD	5.3	75.0	36.7	11.7	3.3	3.7	3.3	2.3	2.7	2.3	2.9
BEACON	4.7	64.0	31.7	9.7	3.0	3.3	3.3	2.7	2.0	2.3	2.8
DLFPS-FL/3066	5.7	80.3	28.3	7.0	3.3	4.0	3.7	2.0	2.0	2.0	2.8
SANDRINE (BAR 6FR 126)	6.7	69.3	17.3	7.7	4.0	4.3	3.3	1.3	1.7	2.0	2.8
GLADIATOR (TH456)	5.3	60.3	40.3	8.7	3.0	3.0	3.0	2.3	2.3	1.7	2.6
MINIMUS	5.3	63.7	11.7	9.3	3.0	2.7	3.0	1.7	2.7	2.0	2.5
PST-4BND	4.7	57.0	12.3	7.0	2.7	2.3	2.7	1.0	1.7	2.0	2.1
LSD VALUE	1.5	57.7	25.3	24.1	1.6	1.8	1.2	1.5	1.6	1.3	0.9
C.V. (%)	14.1	22.1	31.0	64.9	20.2	21.7	16.5	31.7	29.6	27.8	15.8

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 5B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                                    GROWN UNDER TRAFFIC STRESS AT STORRS, CT   1/
                                                   2018 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	98.0	88.3	65.0	6.3	7.0	6.0	6.0	5.7	5.7	6.1
BOLSTER (C14-OS3)	6.7	97.3	75.0	38.3	6.7	7.7	7.0	4.7	4.0	4.3	5.7
BAR VV-VP3-CT	6.7	98.7	80.0	46.7	6.3	6.7	6.3	5.0	5.0	4.0	5.6
MOMENTUM (PPG-FRC 114)	6.3	97.7	75.0	41.7	6.0	7.3	5.7	4.7	5.0	5.0	5.6
COMPASS II (PPG-FRC 113)	6.7	69.3	61.7	40.0	6.7	7.0	6.3	4.0	4.0	4.3	5.4
DLF-FRC 3338	6.3	95.7	63.3	30.0	6.3	7.0	5.7	4.3	3.3	4.0	5.1
DLFPS-FRC/3057	6.3	98.0	73.3	55.0	6.3	6.0	5.7	4.0	3.7	4.7	5.1
DLFPS-FRC/3060	6.3	91.3	73.3	35.0	5.0	6.0	5.3	4.7	3.7	4.0	4.8
CASTLE (RAD-FC32)	7.7	95.7	55.0	16.7	6.7	6.3	5.3	3.3	3.0	2.7	4.6
CASCADE	6.3	95.0	63.3	38.3	5.3	4.7	4.7	4.0	4.0	3.3	4.3
RAD-FC44	7.3	92.7	41.7	25.0	6.3	6.3	5.0	1.7	2.7	2.3	4.1
SANDRINE (BAR 6FR 126)	6.7	69.3	17.3	7.7	4.0	4.3	3.3	1.3	1.7	2.0	2.8
LSD VALUE	1.7	44.5	20.4	34.5	1.6	2.1	1.3	2.1	1.2	1.8	0.8
C.V. (%)	10.2	18.8	19.3	46.5	13.7	16.4	13.5	29.6	18.5	25.5	10.6

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

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

TABLE 5C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                                    GROWN UNDER TRAFFIC STRESS AT STORRS, CT   1/
                                                   2018 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	93.0	85.0	33.3	5.3	6.7	5.7	4.7	4.0	4.0	5.1
MARVEL	5.7	89.3	66.7	20.0	5.3	5.7	4.7	3.3	4.0	2.7	4.3
DLF-FRR 6162	6.0	93.3	53.3	16.7	5.0	5.3	4.7	2.7	3.3	2.3	3.9
NAVIGATOR II	5.7	88.0	50.0	21.7	5.0	4.7	4.0	3.7	3.0	2.3	3.8
RAD-FR33R	7.3	89.3	58.3	21.7	5.3	4.7	4.0	3.0	3.0	3.0	3.8
KENT	5.0	91.3	46.7	13.3	4.3	4.7	4.0	3.0	3.0	3.0	3.7
CARDINAL II (PPG-FRR 111)	5.7	90.0	58.3	11.0	4.7	4.7	4.3	2.7	2.7	2.3	3.6
PST-4BEN	5.7	89.7	63.3	23.3	4.3	4.3	4.0	3.7	2.7	2.7	3.6
PST-4DR4	4.7	86.7	40.0	15.0	4.7	4.7	4.0	2.7	3.3	2.3	3.6
PST-4ED4	6.3	89.3	26.7	21.7	4.3	4.7	4.0	2.3	3.3	3.0	3.6
RAD-FR47	6.3	88.0	48.3	41.0	4.7	4.3	4.3	2.7	3.0	2.7	3.6
BOREAL	5.0	88.7	45.0	20.0	4.0	5.0	4.0	2.3	2.7	2.0	3.3
DLFPS-FRR/3068	4.7	87.3	43.3	7.0	4.3	5.0	3.7	2.3	2.3	2.3	3.3
PST-4RUE	5.7	72.7	43.3	14.3	4.3	4.0	3.7	2.7	3.0	2.0	3.3
DLFPS-FRR/3069	5.0	88.3	28.3	6.0	4.0	4.3	3.7	2.0	2.0	2.3	3.1
LSD VALUE	2.0	22.0	23.8	40.0	2.3	1.8	1.0	1.6	2.7	2.3	1.2
C.V. (%)	15.9	9.0	26.3	78.2	17.6	16.9	12.3	26.8	31.8	32.4	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 5D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                             GROWN UNDER TRAFFIC STRESS AT STORRS, CT   1/
                                            2018 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
QUATRO	6.0	94.7	76.7	30.0	5.0	5.3	5.0	4.7	3.7	2.7	4.4
JETTY (PPG-FL 106)	6.0	74.7	45.0	10.0	4.0	4.3	3.7	2.3	3.3	2.3	3.3
RESOLUTE (7H7)	6.0	68.0	37.7	17.0	4.0	4.0	4.0	2.0	3.3	2.0	3.2
DLFPS-FL/3060	6.0	83.7	30.0	6.7	4.0	3.3	3.3	2.3	2.3	2.0	2.9
MNHD-14	5.0	63.3	37.7	16.0	4.0	3.7	3.7	2.0	2.7	1.7	2.9
SWORD	5.3	75.0	36.7	11.7	3.3	3.7	3.3	2.3	2.7	2.3	2.9
BEACON	4.7	64.0	31.7	9.7	3.0	3.3	3.3	2.7	2.0	2.3	2.8
DLFPS-FL/3066	5.7	80.3	28.3	7.0	3.3	4.0	3.7	2.0	2.0	2.0	2.8
GLADIATOR (TH456)	5.3	60.3	40.3	8.7	3.0	3.0	3.0	2.3	2.3	1.7	2.6
MINIMUS	5.3	63.7	11.7	9.3	3.0	2.7	3.0	1.7	2.7	2.0	2.5
PST-4BND	4.7	57.0	12.3	7.0	2.7	2.3	2.7	1.0	1.7	2.0	2.1
LSD VALUE	2.1	46.5	21.0	21.9	1.6	1.6	1.7	1.3	2.5	1.1	1.0
C.V. (%)	15.2	25.8	34.8	77.9	21.3	22.6	22.1	31.9	38.0	21.9	17.9

TABLE 5E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                             GROWN UNDER TRAFFIC STRESS AT STORRS, CT   1/
                                            2018 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
SEAMIST (PPG-FRT 101)	6.3	94.0	68.3	31.7	6.0	6.3	5.3	3.3	3.7	3.0	4.6
SEABREEZE GT	5.3	91.3	40.0	6.7	5.0	5.0	4.3	2.3	2.3	2.7	3.6
BARPEARL (BAR FRT 5002)	4.7	87.3	41.7	3.7	5.0	5.0	5.0	1.7	1.3	1.7	3.3
BEUDIN	4.7	81.3	46.7	4.3	4.0	4.7	5.3	1.3	1.0	1.7	3.0
LSD VALUE	0.7	25.7	34.9	22.4	2.1	1.6	1.1	1.4	1.7	1.8	0.9
C.V. (%)	6.3	12.6	32.1	91.7	19.1	14.2	10.0	29.8	38.4	36.3	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 6A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2018 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER SUMMER	PERCENT GROUND COVER FALL	DOLLAR SPOT	QUALITY RATINGS MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RESOLUTE (7H7)	5.3	97.7	99.0	8.0	7.0	6.7	6.0	6.3	7.3	8.0	6.9
DLFPS-FRC/3057	5.0	99.0	99.0	9.0	6.7	7.0	5.3	6.0	8.0	8.0	6.8
BOLSTER (C14-OS3)	5.7	97.7	99.0	9.0	6.7	7.3	4.7	6.3	7.3	7.7	6.7
COMPASS II (PPG-FRC 113)	5.7	99.0	99.0	9.0	6.7	7.0	5.0	5.7	8.0	8.0	6.7
MOMENTUM (PPG-FRC 114)	5.0	99.0	99.0	9.0	7.0	7.0	5.3	6.3	7.0	7.3	6.7
DLF-FRC 3338	5.0	99.0	99.0	9.0	6.7	7.0	5.0	6.0	7.3	7.3	6.6
DLFPS-FL/3066	5.3	95.0	99.0	7.3	6.7	6.3	6.3	6.0	7.0	7.3	6.6
MNHD-14	5.0	95.0	99.0	8.0	6.7	6.3	5.7	6.0	7.3	7.3	6.6
BAR VV-VP3-CT	5.3	96.3	99.0	7.7	6.3	7.0	5.7	5.3	7.0	7.7	6.5
DLFPS-FL/3060	5.3	75.0	99.0	6.3	7.0	7.0	6.0	5.7	6.7	6.7	6.5
JETTY (PPG-FL 106)	5.7	95.0	99.0	7.7	7.0	7.0	5.0	5.7	7.0	7.3	6.5
RADAR	5.0	99.0	99.0	9.0	6.0	6.7	5.3	5.7	7.7	7.7	6.5
GLADIATOR (TH456)	5.0	96.0	99.0	9.0	6.7	7.0	5.0	5.7	7.0	7.3	6.4
QUATRO	7.3	96.3	99.0	9.0	7.0	6.7	5.3	6.0	6.7	7.0	6.4
MINIMUS	5.0	91.7	93.0	5.7	6.7	7.0	6.0	5.0	5.3	7.0	6.2
SWORD	5.7	94.7	99.0	7.3	6.7	6.7	4.7	4.7	7.0	7.3	6.2
BEACON	6.0	93.0	99.0	6.3	6.3	6.7	5.7	5.0	6.0	6.7	6.1
PST-4ED4	4.3	96.3	99.0	8.3	5.0	6.3	5.0	5.7	7.0	7.3	6.1
PST-4RUE	4.7	96.3	99.0	8.3	5.3	6.7	5.7	5.7	6.3	6.7	6.1
RAD-FC44	4.7	97.7	99.0	9.0	6.3	6.3	4.7	5.0	6.7	7.3	6.1
SEAMIST (PPG-FRT 101)	6.0	93.3	99.0	7.0	6.3	6.7	4.7	5.0	7.0	7.0	6.1
DLFPS-FRC/3060	5.3	93.3	99.0	7.0	6.3	6.3	4.3	5.3	7.0	6.3	5.9
CARDINAL II (PPG-FRR 111)	4.7	96.0	99.0	8.7	5.7	5.3	4.7	5.3	6.7	7.0	5.8
DLF-FRR 6162	4.7	94.7	99.0	8.7	5.0	5.7	5.0	5.7	6.7	6.7	5.8
7C34	5.0	76.7	93.0	5.3	5.7	6.0	5.7	4.3	5.3	6.3	5.6
CASTLE (RAD-FC32)	5.0	90.0	96.0	9.0	5.7	6.7	3.7	5.0	6.0	6.3	5.6
PST-4BND	5.3	95.0	99.0	7.3	6.0	5.3	5.0	5.0	5.7	6.7	5.6
SANDRINE (BAR 6FR 126)	6.0	86.7	99.0	9.0	6.0	6.3	3.3	3.7	7.0	7.3	5.6
PST-4BEN	5.0	95.0	99.0	8.7	5.0	5.7	4.3	5.0	6.0	6.7	5.4
PST-4DR4	5.3	90.0	93.0	7.0	4.7	5.7	5.3	4.7	5.3	6.3	5.3
CASCADE	5.3	97.7	93.0	9.0	5.7	5.3	3.3	5.0	6.0	6.0	5.2
BEUDIN	5.7	81.7	93.0	6.3	5.0	6.0	4.3	3.7	5.3	5.7	5.0
SEABREEZE GT	5.3	86.7	90.0	4.7	5.7	5.7	4.7	4.0	4.7	5.3	5.0
DLFPS-FRR/3068	5.0	66.7	90.0	4.7	5.0	5.7	5.0	3.3	5.0	5.7	4.9
RAD-FR33R	5.0	66.7	90.0	3.3	5.0	6.3	4.3	2.7	4.7	5.3	4.7
NAVIGATOR II	4.7	63.3	86.7	4.3	5.0	5.7	4.7	3.0	4.3	5.0	4.6
MARVEL	5.0	46.7	83.3	1.7	5.0	6.0	5.0	2.0	4.3	4.0	4.4
RAD-FR47	5.0	66.7	86.7	4.0	4.7	5.3	4.7	3.0	4.0	4.3	4.3
BARPEARL (BAR FRT 5002)	4.7	70.0	83.3	6.7	5.7	5.3	2.7	2.7	4.0	5.0	4.2
DLFPS-FRR/3069	4.3	63.3	76.7	3.7	4.7	5.0	4.7	3.0	3.7	3.7	4.1
BOREAL	4.7	80.0	83.3	4.3	4.7	3.7	3.7	3.0	4.0	4.3	3.9
KENT	4.7	63.3	83.3	3.7	4.7	5.0	4.0	2.3	3.7	4.0	3.9
LSD VALUE	0.7	12.4	5.7	1.5	0.7	1.1	1.5	1.1	0.9	1.1	0.7
C.V. (%)	8.7	9.3	3.9	14.5	8.1	10.6	17.0	15.3	10.2	10.9	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 6B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2018 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER SUMMER	FALL	DOLLAR SPOT	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-FRC/3057	5.0	99.0	99.0	9.0	6.7	7.0	5.3	6.0	8.0	8.0	6.8
BOLSTER (C14-OS3)	5.7	97.7	99.0	9.0	6.7	7.3	4.7	6.3	7.3	7.7	6.7
COMPASS II (PPG-FRC 113)	5.7	99.0	99.0	9.0	6.7	7.0	5.0	5.7	8.0	8.0	6.7
MOMENTUM (PPG-FRC 114)	5.0	99.0	99.0	9.0	7.0	7.0	5.3	6.3	7.0	7.3	6.7
DLF-FRC 3338	5.0	99.0	99.0	9.0	6.7	7.0	5.0	6.0	7.3	7.3	6.6
BAR VV-VP3-CT	5.3	96.3	99.0	7.7	6.3	7.0	5.7	5.3	7.0	7.7	6.5
RADAR	5.0	99.0	99.0	9.0	6.0	6.7	5.3	5.7	7.7	7.7	6.5
RAD-FC44	4.7	97.7	99.0	9.0	6.3	6.3	4.7	5.0	6.7	7.3	6.1
DLFPS-FRC/3060	5.3	93.3	99.0	7.0	6.3	6.3	4.3	5.3	7.0	6.3	5.9
CASTLE (RAD-FC32)	5.0	90.0	96.0	9.0	5.7	6.7	3.7	5.0	6.0	6.3	5.6
SANDRINE (BAR 6FR 126)	6.0	86.7	99.0	9.0	6.0	6.3	3.3	3.7	7.0	7.3	5.6
CASCADE	5.3	97.7	93.0	9.0	5.7	5.3	3.3	5.0	6.0	6.0	5.2
LSD VALUE	0.8	6.1	4.7	0.6	1.1	0.8	1.4	1.0	0.8	1.1	0.5
C.V. (%)	7.4	3.5	2.3	3.9	8.1	6.9	16.2	10.8	6.4	8.2	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 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2018 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER SUMMER	FALL	DOLLAR SPOT	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PST-4ED4	4.3	96.3	99.0	8.3	5.0	6.3	5.0	5.7	7.0	7.3	6.1
PST-4RUE	4.7	96.3	99.0	8.3	5.3	6.7	5.7	5.7	6.3	6.7	6.1
CARDINAL II (PPG-FRR 111)	4.7	96.0	99.0	8.7	5.7	5.3	4.7	5.3	6.7	7.0	5.8
DLF-FRR 6162	4.7	94.7	99.0	8.7	5.0	5.7	5.0	5.7	6.7	6.7	5.8
7C34	5.0	76.7	93.0	5.3	5.7	6.0	5.7	4.3	5.3	6.3	5.6
PST-4BEN	5.0	95.0	99.0	8.7	5.0	5.7	4.3	5.0	6.0	6.7	5.4
PST-4DR4	5.3	90.0	93.0	7.0	4.7	5.7	5.3	4.7	5.3	6.3	5.3
DLFPS-FRR/3068	5.0	66.7	90.0	4.7	5.0	5.7	5.0	3.3	5.0	5.7	4.9
RAD-FR33R	5.0	66.7	90.0	3.3	5.0	6.3	4.3	2.7	4.7	5.3	4.7
NAVIGATOR II	4.7	63.3	86.7	4.3	5.0	5.7	4.7	3.0	4.3	5.0	4.6
MARVEL	5.0	46.7	83.3	1.7	5.0	6.0	5.0	2.0	4.3	4.0	4.4
RAD-FR47	5.0	66.7	86.7	4.0	4.7	5.3	4.7	3.0	4.0	4.3	4.3
DLFPS-FRR/3069	4.3	63.3	76.7	3.7	4.7	5.0	4.7	3.0	3.7	3.7	4.1
BOREAL	4.7	80.0	83.3	4.3	4.7	3.7	3.7	3.0	4.0	4.3	3.9
KENT	4.7	63.3	83.3	3.7	4.7	5.0	4.0	2.3	3.7	4.0	3.9
LSD VALUE	1.4	15.1	7.1	2.0	1.0	1.5	2.1	1.2	1.1	1.5	0.8
C.V. (%)	10.5	12.2	4.9	22.3	8.9	13.3	17.6	18.9	13.0	15.8	10.0

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

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

TABLE 6D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2018 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER SUMMER	FALL	DOLLAR SPOT	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
RESOLUTE (7H7)	5.3	97.7	99.0	8.0	7.0	6.7	6.0	6.3	7.3	8.0	6.9
DLFPS-FL/3066	5.3	95.0	99.0	7.3	6.7	6.3	6.3	6.0	7.0	7.3	6.6
MNHD-14	5.0	95.0	99.0	8.0	6.7	6.3	5.7	6.0	7.3	7.3	6.6
DLFPS-FL/3060	5.3	75.0	99.0	6.3	7.0	7.0	6.0	5.7	6.7	6.7	6.5
JETTY (PPG-FL 106)	5.7	95.0	99.0	7.7	7.0	7.0	5.0	5.7	7.0	7.3	6.5
GLADIATOR (TH456)	5.0	96.0	99.0	9.0	6.7	7.0	5.0	5.7	7.0	7.3	6.4
QUATRO	7.3	96.3	99.0	9.0	7.0	6.7	5.3	6.0	6.7	7.0	6.4
MINIMUS	5.0	91.7	93.0	5.7	6.7	7.0	6.0	5.0	5.3	7.0	6.2
SWORD	5.7	94.7	99.0	7.3	6.7	6.7	4.7	4.7	7.0	7.3	6.2
BEACON	6.0	93.0	99.0	6.3	6.3	6.7	5.7	5.0	6.0	6.7	6.1
PST-4BND	5.3	95.0	99.0	7.3	6.0	5.3	5.0	5.0	5.7	6.7	5.6
LSD VALUE	0.7	19.5	2.9	1.6	1.0	1.2	2.4	1.4	1.0	1.0	0.6
C.V. (%)	7.2	9.0	1.6	12.0	6.5	8.7	16.8	11.8	8.1	6.7	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 6E. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT EAST LANSING, MI 1/
2018 DATA

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

NAME	SPRING GREENUP	PERCENT GROUND COVER SUMMER	FALL	DOLLAR SPOT	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
SEAMIST (PPG-FRT 101)	6.0	93.3	99.0	7.0	6.3	6.7	4.7	5.0	7.0	7.0	6.1
BEUDIN	5.7	81.7	93.0	6.3	5.0	6.0	4.3	3.7	5.3	5.7	5.0
SEABREEZE GT	5.3	86.7	90.0	4.7	5.7	5.7	4.7	4.0	4.7	5.3	5.0
BARPEARL (BAR FRT 5002)	4.7	70.0	83.3	6.7	5.7	5.3	2.7	2.7	4.0	5.0	4.2
LSD VALUE	1.2	26.8	15.5	3.3	1.0	0.8	1.7	2.9	2.1	1.9	1.4
C.V. (%)	10.2	14.6	7.7	23.7	8.3	6.3	20.0	34.0	18.8	15.6	13.2

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 7A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                 GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                     2018 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
DLFPS-FRC/3057	4.3	96.0	95.3	76.7	6.7	6.3	6.7	6.0	6.3	7.3	6.6
BOLSTER (C14-OS3)	5.3	97.3	92.0	80.7	7.0	6.7	6.3	5.7	6.0	7.0	6.4
SEAMIST (PPG-FRT 101)	5.0	99.0	89.3	78.0	7.3	6.3	6.7	5.7	6.0	6.3	6.4
SANDRINE (BAR 6FR 126)	5.0	99.0	94.0	84.3	7.0	6.3	6.0	5.7	6.0	7.0	6.3
BAR VV-VP3-CT	4.0	99.0	93.0	84.3	7.0	5.7	6.0	6.0	6.0	6.3	6.2
DLFPS-FL/3060	4.0	99.0	93.3	85.7	6.3	6.0	6.0	6.3	6.0	6.7	6.2
BARPEARL (BAR FRT 5002)	3.7	98.3	89.7	87.0	6.7	7.0	5.7	5.7	5.0	6.3	6.1
CASTLE (RAD-FC32)	3.3	92.3	89.3	85.3	7.0	6.5	6.3	5.0	5.3	6.0	6.0
RAD-FC44	2.3	98.3	90.7	80.0	6.7	6.0	6.3	5.3	5.0	6.7	6.0
RESOLUTE (7H7)	3.3	95.3	98.0	89.3	7.0	5.3	5.3	5.7	6.0	6.7	6.0
JETTY (PPG-FL 106)	2.7	98.0	95.7	88.3	6.7	5.3	5.7	5.7	6.0	6.0	5.9
RADAR	4.7	97.0	92.3	86.0	6.0	6.0	6.3	5.0	5.7	6.7	5.9
BEUDIN	3.7	93.0	90.0	82.3	6.7	6.7	6.0	4.7	4.3	6.3	5.8
COMPASS II (PPG-FRC 113)	4.0	99.0	95.0	76.0	7.0	5.7	6.0	5.0	5.0	6.3	5.8
MOMENTUM (PPG-FRC 114)	4.3	99.0	92.0	86.3	6.3	6.0	5.3	5.3	5.3	6.3	5.8
GLADIATOR (TH456)	2.3	97.3	95.0	89.7	5.3	5.3	5.7	5.7	5.3	7.0	5.7
BEACON	2.7	96.7	84.3	84.3	6.0	5.7	5.3	5.3	5.3	6.0	5.6
DLF-FRC 3338	3.0	99.0	93.3	81.3	6.0	6.3	6.0	4.7	4.7	6.0	5.6
DLFPS-FL/3066	3.7	96.3	89.3	75.0	6.0	5.3	5.7	5.7	5.0	5.7	5.6
DLFPS-FRC/3060	5.0	98.3	92.0	74.3	5.7	6.0	5.7	5.7	5.0	5.7	5.6
MNHD-14	2.7	94.3	90.7	89.3	6.0	5.3	5.3	5.0	5.3	5.3	5.4
QUATRO	3.7	98.0	96.0	87.3	5.3	4.7	5.0	5.3	5.7	6.0	5.3
CASCADE	5.3	98.3	91.3	81.3	5.3	4.7	5.0	4.7	4.7	6.0	5.1
SEABREEZE GT	4.0	95.7	83.0	75.7	6.0	5.3	5.7	4.0	3.7	5.0	4.9
SWORD	3.0	97.3	81.3	82.7	5.3	5.3	4.7	5.0	4.3	4.7	4.9
7C34	4.3	94.7	85.7	77.0	5.7	6.3	5.7	3.3	2.7	4.3	4.7
PST-4BND	3.0	95.7	93.0	82.7	5.0	4.3	4.7	4.7	4.3	5.3	4.7
MINIMUS	3.3	97.7	83.3	78.7	5.7	4.0	4.0	4.0	4.7	4.7	4.5
NAVIGATOR II	4.3	93.0	81.3	67.7	5.0	5.0	5.3	3.7	2.3	4.0	4.2
DLFPS-FRR/3069	4.0	96.0	82.3	69.7	5.0	4.7	4.7	4.0	2.7	3.7	4.1
MARVEL	4.7	93.3	86.7	68.3	5.3	5.0	4.7	3.3	2.7	3.3	4.1
DLFPS-FRR/3068	4.0	93.0	83.7	72.7	5.0	4.7	5.0	3.7	2.3	3.3	4.0
CARDINAL II (PPG-FRR 111)	5.0	95.7	89.7	71.0	5.0	4.3	4.7	3.3	2.7	3.7	3.9
DLF-FRR 6162	3.3	98.0	77.0	71.0	5.3	5.0	4.7	3.0	2.7	3.0	3.9
PST-4BEN	4.0	94.0	85.3	77.7	4.7	5.0	4.3	3.3	2.0	4.0	3.9
RAD-FR47	4.7	94.3	82.3	71.3	5.0	5.0	4.7	3.0	2.3	3.3	3.9
PST-4DR4	4.0	93.3	82.3	68.0	4.7	5.0	4.0	2.7	2.7	4.0	3.8
PST-4ED4	4.7	94.0	75.7	70.0	5.0	4.0	4.3	3.7	2.3	3.7	3.8
BOREAL	3.3	92.7	83.7	69.7	4.0	3.7	4.3	4.0	2.3	3.0	3.6
KENT	4.0	96.3	82.3	77.0	4.3	4.3	4.7	3.0	2.0	3.3	3.6
RAD-FR33R	3.0	93.0	82.3	78.0	4.0	4.3	4.0	3.3	2.7	3.3	3.6
PST-4RUE	5.0	89.0	72.3	67.3	4.7	3.7	3.7	3.0	2.3	2.3	3.3
LSD VALUE	1.5	10.4	10.1	11.9	1.0	1.1	1.6	1.6	1.3	1.3	0.8
C.V. (%)	21.2	3.8	6.6	8.5	11.1	12.4	16.0	20.3	19.6	16.1	10.8

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

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

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
2018 DATA

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

NAME	SUMMER PATCH JULY	SUMMER PATCH AUGUST	PERCENT CRABGRASS	PERCENT WEED COVERAGE SPRING	PERCENT WEED COVERAGE SUMMER	PERCENT WEED COVERAGE FALL	PERCENT BARE SPOT COVERAGE SPRING	PERCENT BARE SPOT COVERAGE SUMMER	PERCENT BARE SPOT COVERAGE FALL
DLFPS-FRC/3057	8.7	8.0	0	2.3	1.0	3.3	2.3	4.3	20.3
BOLSTER (C14-OS3)	8.3	7.7	0	1.7	3.3	0.3	0.7	4.7	19.0
SEAMIST (PPG-FRT 101)	8.7	8.0	0	0.0	5.0	1.7	0.0	5.7	20.3
SANDRINE (BAR 6FR 126)	9.0	7.3	0	0.7	4.3	2.7	0.7	2.0	13.0
BAR VV-VP3-CT	8.7	8.7	0	0.0	2.7	0.3	0.7	5.0	15.3
DLFPS-FL/3060	8.0	8.3	0	0.0	2.7	0.3	0.7	4.7	14.0
BARPEARL (BAR FRT 5002)	8.7	7.7	0	0.0	4.7	2.0	1.0	5.7	12.0
CASTLE (RAD-FC32)	9.0	8.3	0	6.0	2.3	1.0	1.0	8.7	13.7
RAD-FC44	8.7	8.0	0	0.0	1.7	1.3	1.0	8.0	18.3
RESOLUTE (7H7)	5.7	6.7	0	3.7	0.7	0.0	1.3	2.3	10.7
JETTY (PPG-FL 106)	7.7	6.7	0	0.7	0.7	2.0	1.0	4.3	9.7
RADAR	9.0	8.3	0	1.0	2.0	1.0	2.3	6.0	13.7
BEUDIN	8.3	8.0	0	5.7	2.0	0.7	1.7	9.0	17.0
COMPASS II (PPG-FRC 113)	8.7	7.7	0	0.0	0.7	3.3	0.7	4.7	21.0
MOMENTUM (PPG-FRC 114)	8.7	7.3	0	0.0	0.7	0.3	0.7	7.7	13.3
GLADIATOR (TH456)	9.0	8.0	0	0.7	2.0	3.0	2.3	3.7	7.3
BEACON	7.0	7.0	0	3.3	7.7	2.0	0.0	8.3	13.7
DLF-FRC 3338	8.3	7.7	0	0.0	2.0	1.3	0.0	5.3	17.7
DLFPS-FL/3066	7.3	7.7	0	1.0	5.0	4.7	2.7	6.0	19.7
DLFPS-FRC/3060	7.7	7.3	0	0.0	1.7	2.3	2.3	7.0	23.3
MNHD-14	6.7	6.3	0	4.7	5.3	0.0	1.0	4.3	10.7
QUATRO	8.7	8.7	0	0.7	3.0	1.0	1.7	1.0	11.7
CASCADE	8.3	7.7	0	0.0	2.3	0.0	1.7	6.7	19.0
SEABREEZE GT	8.0	7.3	0	1.7	6.3	0.3	3.3	11.3	24.0
SWORD	6.7	7.0	0	2.0	13.3	1.0	0.7	5.7	16.3
7C34	8.0	8.0	0	0.0	2.3	2.7	5.7	12.0	20.3
PST-4BND	6.7	7.0	0	1.7	3.3	2.7	3.3	4.3	14.7
MINIMUS	5.0	6.0	0	1.3	7.7	2.7	1.3	9.0	18.7
NAVIGATOR II	8.0	7.7	0	4.7	5.0	6.3	2.7	14.3	26.0
DLFPS-FRR/3069	8.0	7.0	0	0.0	3.3	0.7	4.3	14.7	29.3
MARVEL	8.3	7.7	0	0.0	1.7	0.7	7.0	12.0	30.7
DLFPS-FRR/3068	8.3	8.0	0	2.0	4.0	1.3	5.3	12.3	26.0
CARDINAL II (PPG-FRR 111)	8.0	8.0	0	0.7	1.0	0.0	4.3	9.7	29.0
DLF-FRR 6162	8.7	8.7	0	0.0	4.3	0.0	3.0	18.7	29.0
PST-4BEN	8.0	6.3	0	1.3	4.3	0.7	5.3	10.7	21.7
RAD-FR47	7.3	7.7	0	1.7	2.0	0.3	4.0	15.7	31.0
PST-4DR4	8.3	8.3	0	0.7	1.0	0.0	6.3	16.7	32.0
PST-4ED4	8.0	8.0	0	1.3	10.3	2.3	5.3	14.0	28.0
BOREAL	7.3	8.3	0	0.0	2.7	0.0	7.7	13.7	30.3
KENT	7.7	8.0	0	0.7	0.7	0.0	3.7	17.3	23.0
RAD-FR33R	8.3	7.3	0	0.7	4.0	0.0	6.7	14.3	22.0
PST-4RUE	8.3	7.3	0	6.7	11.7	0.3	4.7	16.3	32.3
LSD VALUE	5.8	4.9	0	12.2	10.2	7.8	3.4	7.2	11.2
C.V. (%)	19.7	16.1	.	232.9	112.4	174.8	73.9	48.5	32.4

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 7B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                            GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                    2018 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
DLFPS-FRC/3057	4.3	96.0	95.3	76.7	6.7	6.3	6.7	6.0	6.3	7.3	6.6
BOLSTER (C14-OS3)	5.3	97.3	92.0	80.7	7.0	6.7	6.3	5.7	6.0	7.0	6.4
SANDRINE (BAR 6FR 126)	5.0	99.0	94.0	84.3	7.0	6.3	6.0	5.7	6.0	7.0	6.3
BAR VV-VP3-CT	4.0	99.0	93.0	84.3	7.0	5.7	6.0	6.0	6.0	6.3	6.2
CASTLE (RAD-FC32)	3.3	92.3	89.3	85.3	7.0	6.5	6.3	5.0	5.3	6.0	6.0
RAD-FC44	2.3	98.3	90.7	80.0	6.7	6.0	6.3	5.3	5.0	6.0	6.0
RADAR	4.7	97.0	92.3	86.0	6.0	6.0	6.3	5.0	5.7	6.7	5.9
COMPASS II (PPG-FRC 113)	4.0	99.0	95.0	76.0	7.0	5.7	6.0	5.0	5.0	6.3	5.8
MOMENTUM (PPG-FRC 114)	4.3	99.0	92.0	86.3	6.3	6.0	5.3	5.3	5.3	6.3	5.8
DLF-FRC 3338	3.0	99.0	93.3	81.3	6.0	6.3	6.0	4.7	4.7	6.0	5.6
DLFPS-FRC/3060	5.0	98.3	92.0	74.3	5.7	6.0	5.7	5.7	5.0	5.7	5.6
CASCADE	5.3	98.3	91.3	81.3	5.3	4.7	5.0	4.7	4.7	6.0	5.1
LSD VALUE	1.5	10.0	7.8	14.7	1.8	1.8	1.4	2.8	2.4	1.4	1.1
C.V. (%)	19.5	3.7	3.2	7.4	12.3	12.1	10.1	18.1	17.1	9.9	8.7

TABLE 7B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                    2018 DATA

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

| | SUMMER PATCH | | PERCENT | PERCENT WEED COVERAGE | | | PERCENT BARE SPOT COVERAGE | | |
NAME	JULY	AUGUST	CRABGRASS	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
DLFPS-FRC/3057	8.7	8.0	0	2.3	1.0	3.3	2.3	4.3	20.3
BOLSTER (C14-OS3)	8.3	7.7	0	1.7	3.3	0.3	0.7	4.7	19.0
SANDRINE (BAR 6FR 126)	9.0	7.3	0	0.7	4.3	2.7	0.7	2.0	13.0
BAR VV-VP3-CT	8.7	8.7	0	0.0	2.7	0.3	0.7	5.0	15.3
CASTLE (RAD-FC32)	9.0	8.3	0	6.0	2.3	1.0	1.0	8.7	13.7
RAD-FC44	8.7	8.0	0	0.0	1.7	1.3	1.0	8.0	18.3
RADAR	9.0	8.3	0	1.0	2.0	1.0	2.3	6.0	13.7
COMPASS II (PPG-FRC 113)	8.7	7.7	0	0.0	0.7	3.3	0.7	4.7	21.0
MOMENTUM (PPG-FRC 114)	8.7	7.3	0	0.0	0.7	0.3	0.7	7.7	13.3
DLF-FRC 3338	8.3	7.7	0	0.0	2.0	1.3	0.0	5.3	17.7
DLFPS-FRC/3060	7.7	7.3	0	0.0	1.7	2.3	2.3	7.0	23.3
CASCADE	8.3	7.7	0	0.0	2.3	0.0	1.7	6.7	19.0
LSD VALUE	2.2	3.8	0	9.1	6.4	8.3	3.8	6.2	15.9
C.V. (%)	9.1	15.5	.	338.7	107.6	192.2	120.5	44.7	34.5

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 7C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                             GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                    2018 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
7C34	4.3	94.7	85.7	77.0	5.7	6.3	5.7	3.3	2.7	4.3	4.7
NAVIGATOR II	4.3	93.0	81.3	67.7	5.0	5.0	5.3	3.7	2.3	4.0	4.2
DLFPS-FRR/3069	4.0	96.0	82.3	69.7	5.0	4.7	4.7	4.0	2.7	3.7	4.1
MARVEL	4.7	93.3	86.7	68.3	5.3	5.0	4.7	3.3	2.7	3.3	4.1
DLFPS-FRR/3068	4.0	93.0	83.7	72.7	5.0	4.7	5.0	3.7	2.3	3.3	4.0
CARDINAL II (PPG-FRR 111)	5.0	95.7	89.7	71.0	5.0	4.3	4.7	3.3	2.7	3.7	3.9
DLF-FRR 6162	3.3	98.0	77.0	71.0	5.3	5.0	4.7	3.0	2.7	3.0	3.9
PST-4BEN	4.0	94.0	85.3	77.7	4.7	5.0	4.3	3.3	2.0	4.0	3.9
RAD-FR47	4.7	94.3	82.3	71.3	5.0	5.0	4.7	3.0	2.3	3.3	3.9
PST-4DR4	4.0	93.3	82.3	68.0	4.7	5.0	4.0	2.7	2.7	4.0	3.8
PST-4ED4	4.7	94.0	75.7	70.0	5.0	4.0	4.3	3.7	2.3	3.7	3.8
BOREAL	3.3	92.7	83.7	69.7	4.0	3.7	4.3	4.0	2.3	3.0	3.6
KENT	4.0	96.3	82.3	77.0	4.3	4.3	4.7	3.0	2.0	3.3	3.6
RAD-FR33R	3.0	93.0	82.3	78.0	4.0	4.3	4.0	3.3	2.7	3.3	3.6
PST-4RUE	5.0	89.0	72.3	67.3	4.7	3.7	3.7	3.0	2.3	2.3	3.3
LSD VALUE	1.7	8.6	17.5	24.0	0.9	1.0	1.5	2.2	1.7	1.6	0.7
C.V. (%)	18.4	3.5	8.2	10.9	9.8	12.0	14.7	22.0	22.3	19.2	9.2

TABLE 7C.   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/
                                                    2018 DATA

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

NAME	SUMMER PATCH		PERCENT CRABGRASS	PERCENT WEED COVERAGE			PERCENT BARE SPOT COVERAGE		
	JULY	AUGUST		SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
7C34	8.0	8.0	0	0.0	2.3	2.7	5.7	12.0	20.3
NAVIGATOR II	8.0	7.7	0	4.7	5.0	6.3	2.7	14.3	26.0
DLFPS-FRR/3069	8.0	7.0	0	0.0	3.3	0.7	4.3	14.7	29.3
MARVEL	8.3	7.7	0	0.0	1.7	0.7	7.0	12.0	30.7
DLFPS-FRR/3068	8.3	8.0	0	2.0	4.0	1.3	5.3	12.3	26.0
CARDINAL II (PPG-FRR 111)	8.0	8.0	0	0.7	1.0	0.0	4.3	9.7	29.0
DLF-FRR 6162	8.7	8.7	0	0.0	4.3	0.0	3.0	18.7	29.0
PST-4BEN	8.0	6.3	0	1.3	4.3	0.7	5.3	10.7	21.7
RAD-FR47	7.3	7.7	0	1.7	2.0	0.3	4.0	15.7	31.0
PST-4DR4	8.3	8.3	0	0.7	1.0	0.0	6.3	16.7	32.0
PST-4ED4	8.0	8.0	0	1.3	10.3	2.3	5.3	14.0	28.0
BOREAL	7.3	8.3	0	0.0	2.7	0.0	7.7	13.7	30.3
KENT	7.7	8.0	0	0.7	0.7	0.0	3.7	17.3	23.0
RAD-FR33R	8.3	7.3	0	0.7	4.0	0.0	6.7	14.3	22.0
PST-4RUE	8.3	7.3	0	6.7	11.7	0.3	4.7	16.3	32.3
LSD VALUE	2.3	2.6	0	5.7	5.9	3.9	6.2	18.3	22.2
C.V. (%)	9.4	12.4	.	183.0	80.3	187.4	46.2	40.5	27.6

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 7D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
2018 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
DLFPS-FL/3060	4.0	99.0	93.3	85.7	6.3	6.0	6.0	6.3	6.0	6.7	6.2
RESOLUTE (7H7)	3.3	95.3	98.0	89.3	7.0	5.3	5.3	5.7	6.0	6.7	6.0
JETTY (PPG-FL 106)	2.7	98.0	95.7	88.3	6.7	5.3	5.7	5.7	6.0	6.0	5.9
GLADIATOR (TH456)	2.3	97.3	95.0	89.7	5.3	5.3	5.7	5.7	5.3	7.0	5.7
BEACON	2.7	96.7	84.3	84.3	6.0	5.7	5.3	5.3	5.3	6.0	5.6
DLFPS-FL/3066	3.7	96.3	89.3	75.0	6.0	5.3	5.7	5.7	5.0	5.7	5.6
MNHD-14	2.7	94.3	90.7	89.3	6.0	5.3	5.3	5.0	5.3	5.3	5.4
QUATRO	3.7	98.0	96.0	87.3	5.3	4.7	5.0	5.3	5.7	6.0	5.3
SWORD	3.0	97.3	81.3	82.7	5.3	5.3	4.7	5.0	4.3	4.7	4.9
PST-4BND	3.0	95.7	93.0	82.7	5.0	4.3	4.7	4.7	4.3	5.3	4.7
MINIMUS	3.3	97.7	83.3	78.7	5.7	4.0	4.0	4.0	4.7	4.7	4.5
LSD VALUE	2.0	10.3	15.4	13.1	0.7	1.8	2.8	3.4	2.4	2.7	1.7
C.V. (%)	25.6	3.6	7.7	7.0	7.4	15.0	20.0	23.0	18.1	19.2	13.3

TABLE 7D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
2018 DATA

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

| | SUMMER PATCH | | PERCENT | PERCENT WEED COVERAGE | | | PERCENT BARE SPOT COVERAGE | | |
NAME	JULY	AUGUST	CRABGRASS	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
DLFPS-FL/3060	8.0	8.3	0	0.0	2.7	0.3	0.7	4.7	14.0
RESOLUTE (7H7)	5.7	6.7	0	3.7	0.7	0.0	1.3	2.3	10.7
JETTY (PPG-FL 106)	7.7	6.7	0	0.7	0.7	2.0	1.0	4.3	9.7
GLADIATOR (TH456)	9.0	8.0	0	0.7	2.0	3.0	2.3	3.7	7.3
BEACON	7.0	7.0	0	3.3	7.7	2.0	0.0	8.3	13.7
DLFPS-FL/3066	7.3	7.7	0	1.0	5.0	4.7	2.7	6.0	19.7
MNHD-14	6.7	6.3	0	4.7	5.3	0.0	1.0	4.3	10.7
QUATRO	8.7	8.7	0	0.7	3.0	1.0	1.7	1.0	11.7
SWORD	6.7	7.0	0	2.0	13.3	1.0	0.7	5.7	16.3
PST-4BND	6.7	7.0	0	1.7	3.3	2.7	3.3	4.3	14.7
MINIMUS	5.0	6.0	0	1.3	7.7	2.7	1.3	9.0	18.7
LSD VALUE	6.7	4.5	0	10.1	15.7	5.7	4.7	8.1	14.4
C.V. (%)	33.7	22.7	.	193.3	132.0	129.7	121.6	69.4	43.8

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 7E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                            GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                2018 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
SEAMIST (PPG-FRT 101)	5.0	99.0	89.3	78.0	7.3	6.3	6.7	5.7	6.0	6.3	6.4
BARPEARL (BAR FRT 5002)	3.7	98.3	89.7	87.0	6.7	7.0	5.7	5.7	5.0	6.3	6.1
BEUDIN	3.7	93.0	90.0	82.3	6.7	6.7	6.0	4.7	4.3	6.3	5.8
SEABREEZE GT	4.0	95.7	83.0	75.7	6.0	5.3	5.7	4.0	3.7	5.0	4.9
LSD VALUE	1.9	11.6	9.0	15.4	1.8	1.2	1.3	1.0	1.4	1.2	0.7
C.V. (%)	20.4	5.3	4.6	8.5	12.0	8.7	9.6	10.0	14.5	9.6	5.8

TABLE 7E.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A FAIRWAY AT ST. PAUL, MN 1/
                                                2018 DATA

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

	SUMMER PATCH		PERCENT	PERCENT WEED COVERAGE			PERCENT BARE SPOT COVERAGE		
NAME	JULY	AUGUST	CRABGRASS	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
SEAMIST (PPG-FRT 101)	8.7	8.0	0	0.0	5.0	1.7	0.0	5.7	20.3
BARPEARL (BAR FRT 5002)	8.7	7.7	0	0.0	4.7	2.0	1.0	5.7	12.0
BEUDIN	8.3	8.0	0	5.7	2.0	0.7	1.7	9.0	17.0
SEABREEZE GT	8.0	7.3	0	1.7	6.3	0.3	3.3	11.3	24.0
LSD VALUE	2.1	0.8	0	12.3	13.0	5.1	3.5	3.9	12.3
C.V. (%)	10.7	4.8	.	291.3	123.3	189.5	106.6	23.5	30.7

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 8A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                            GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
                                                    2018 DATA

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

| | BEFORE SPRING TRAFFIC WAS APPLIED (MAY) | | | | AFTER SPRING TRAFFIC WAS COMPLETED (JUNE) | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | FULLNESS OF CANOPY | | BRUISING | BRUISING |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SWORD	8.5	6.0	92.0	87.5	6.5	3.0	84.5	32.5	9	9.0
JETTY (PPG-FL 106)	8.7	7.3	96.0	91.7	9.0	4.3	99.0	60.0	9	8.3
MNHD-14	9.0	7.0	91.3	83.3	9.0	3.7	99.0	56.7	9	9.0
RESOLUTE (7H7)	8.7	7.3	97.7	90.0	9.0	5.0	99.0	60.0	9	9.0
DLFPS-FL/3060	9.0	7.0	97.7	86.7	9.0	2.7	97.7	36.7	9	6.7
GLADIATOR (TH456)	9.0	7.3	99.0	91.7	9.0	3.0	99.0	40.0	9	8.3
DLF-FRC 3338	8.7	7.3	93.0	90.0	9.0	4.3	99.0	58.3	9	9.0
DLFPS-FRC/3057	9.0	7.7	69.3	90.0	9.0	4.0	99.0	61.7	9	9.0
MINIMUS	9.0	7.3	99.0	88.3	8.3	3.0	97.7	38.3	9	6.7
BOLSTER (C14-OS3)	9.0	7.7	97.7	90.0	9.0	4.7	99.0	66.7	9	8.0
DLFPS-FL/3066	8.7	6.3	93.0	85.0	9.0	3.3	93.0	43.3	9	8.0
BEACON	9.0	7.5	99.0	90.0	8.5	4.0	94.5	47.5	9	8.5
CASTLE (RAD-FC32)	7.5	6.5	90.0	80.0	8.5	4.5	90.0	52.5	9	9.0
PST-4BND	8.5	6.0	92.5	80.0	6.5	3.0	97.0	45.0	9	8.0
MOMENTUM (PPG-FRC 114)	9.0	6.0	97.7	86.7	9.0	3.3	94.3	45.0	9	8.3
QUATRO	9.0	6.7	97.7	86.7	8.7	4.3	97.7	56.7	9	6.7
SEAMIST (PPG-FRT 101)	8.0	6.0	95.0	80.0	9.0	3.0	99.0	40.0	9	5.0
RADAR	9.0	7.0	94.5	85.0	9.0	4.0	97.0	47.5	9	9.0
COMPASS II (PPG-FRC 113)	8.7	6.7	95.0	90.0	9.0	4.0	97.7	55.0	9	7.7
DLFPS-FRC/3060	8.5	6.0	97.0	82.5	9.0	3.5	99.0	47.5	9	7.0
BAR VV-VP3-CT	7.0	5.0	75.0	70.0	4.0	3.0	75.0	25.0	9	9.0
PST-4BEN	8.7	6.3	90.0	78.3	7.7	2.0	93.0	23.3	9	9.0
BEUDIN	5.3	3.3	76.7	58.3	4.7	1.0	76.7	13.3	9	5.7
PST-4ED4	7.7	5.7	85.0	75.0	8.0	2.3	89.7	30.0	9	9.0
RAD-FC44	7.0	4.5	77.5	70.0	7.0	2.5	80.0	27.5	9	9.0
RAD-FR47	8.0	6.0	87.5	77.5	8.0	2.0	92.0	25.0	9	9.0
SEABREEZE GT	6.5	4.0	80.0	67.5	6.5	3.0	80.0	25.0	9	9.0
DLF-FRR 6162	7.7	6.0	83.3	78.3	8.3	2.0	85.0	26.7	9	9.0
PST-4RUE	8.0	6.0	91.7	78.3	8.3	2.0	88.3	20.0	9	9.0
RAD-FR33R	8.0	5.0	90.0	75.0	7.0	2.0	90.0	25.0	9	9.0
CASCADE	8.0	6.0	89.7	81.7	8.0	3.3	86.7	46.7	9	9.0
NAVIGATOR II	7.7	5.3	93.3	80.0	8.7	1.7	86.7	21.7	9	9.0
PST-4DR4	8.7	5.3	83.3	75.0	7.0	1.7	94.7	20.0	9	8.7
BARPEARL (BAR FRT 5002)	5.0	4.0	67.5	45.0	3.5	1.5	65.0	12.5	9	1.5
DLFPS-FRR/3069	8.0	5.5	85.0	77.5	8.5	1.5	82.5	27.5	9	9.0
7C34	8.3	5.3	88.3	76.7	9.0	2.7	99.0	40.0	9	9.0
MARVEL	8.0	5.0	85.0	71.7	7.3	2.3	90.0	31.7	9	9.0
BOREAL	7.0	4.7	81.7	73.3	5.7	1.3	76.7	11.7	9	6.3
CARDINAL II (PPG-FRR 111)	7.3	5.3	88.3	78.3	9.0	2.0	91.7	25.0	9	9.0
DLFPS-FRR/3068	8.0	5.5	90.0	77.5	9.0	2.5	92.0	22.5	9	9.0
KENT	7.0	5.0	80.0	71.7	6.0	1.7	85.0	20.0	9	7.7
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.	.	.
LSD VALUE	1.1	1.6	27.7	10.6	1.3	1.4	10.1	18.4	0	3.3
C.V. (%)	7.7	14.0	11.3	7.3	9.6	26.0	6.0	27.2	0	17.7

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
   THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

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

| | RECOVERY AFTER SPRING TRAFFIC | | | | | | | |
| | UNIFORMITY (JULY) | | FULLNESS OF CANOPY (JULY) | | UNIFORMITY (AUGUST) | | FULLNESS OF CANOPY (AUG) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SWORD	7.0	4.5	84.5	50.0	8.0	7.0	85.0	65.0
JETTY (PPG-FL 106)	9.0	6.3	99.0	68.3	9.0	8.3	96.3	80.0
MNHD-14	9.0	5.7	96.0	66.7	9.0	7.7	97.7	76.7
RESOLUTE (7H7)	5.7	5.0	76.3	63.3	4.7	6.0	55.0	65.0
DLFPS-FL/3060	9.0	5.7	97.7	55.0	9.0	7.0	97.7	66.7
GLADIATOR (TH456)	7.7	4.7	88.0	50.0	6.7	6.0	75.0	56.7
DLF-FRC 3338	9.0	6.0	99.0	66.7	9.0	7.3	97.7	71.7
DLFPS-FRC/3057	9.0	5.7	97.7	75.0	9.0	8.3	97.7	85.0
MINIMUS	8.7	4.3	99.0	50.0	9.0	5.7	97.7	60.0
BOLSTER (C14-OS3)	9.0	6.3	99.0	76.7	9.0	8.3	97.7	85.0
DLFPS-FL/3066	9.0	5.3	94.7	60.0	8.7	7.3	94.7	75.0
BEACON	9.0	6.0	97.0	62.5	9.0	8.0	97.0	77.5
CASTLE (RAD-FC32)	9.0	6.0	92.5	70.0	9.0	7.5	92.5	82.5
PST-4BND	5.5	3.5	87.5	47.5	5.0	3.5	77.5	45.0
MOMENTUM (PPG-FRC 114)	9.0	6.0	96.0	63.3	9.0	8.0	94.7	81.7
QUATRO	9.0	4.7	97.7	56.7	8.7	6.0	96.3	61.7
SEAMIST (PPG-FRT 101)	9.0	7.0	99.0	55.0	9.0	8.0	95.0	70.0
RADAR	9.0	6.0	97.0	62.5	9.0	8.0	95.0	75.0
COMPASS II (PPG-FRC 113)	9.0	6.3	96.3	65.0	9.0	8.3	96.3	76.7
DLFPS-FRC/3060	9.0	6.0	99.0	65.0	9.0	8.0	97.0	80.0
BAR VV-VP3-CT	7.0	5.0	80.0	50.0	9.0	6.0	80.0	65.0
PST-4BEN	8.3	5.3	86.3	48.3	9.0	6.7	76.3	63.3
BEUDIN	3.7	2.0	56.7	18.3	2.7	2.3	38.3	23.3
PST-4ED4	8.7	5.7	91.3	56.7	9.0	8.3	93.0	76.7
RAD-FC44	8.5	5.0	85.0	47.5	8.5	7.5	90.0	65.0
RAD-FR47	8.0	5.0	87.0	45.0	7.5	6.0	84.5	62.5
SEABREEZE GT	7.5	4.5	75.0	35.0	7.5	4.5	70.0	42.5
DLF-FRR 6162	8.7	5.7	88.3	56.7	9.0	8.0	93.3	75.0
PST-4RUE	8.7	5.7	91.7	48.3	9.0	7.3	93.3	75.0
RAD-FR33R	8.0	5.0	90.0	55.0	9.0	7.0	90.0	70.0
CASCADE	9.0	6.0	86.7	66.7	9.0	8.0	90.0	76.7
NAVIGATOR II	9.0	5.0	90.0	43.3	9.0	7.3	91.7	61.7
PST-4DR4	7.0	4.3	93.0	48.3	8.7	7.0	93.0	68.3
BARPEARL (BAR FRT 5002)	3.5	2.0	50.0	20.0	4.0	2.5	42.5	27.5
DLFPS-FRR/3069	9.0	5.0	87.5	55.0	9.0	8.0	92.5	77.5
7C34	9.0	6.0	99.0	63.3	9.0	8.7	96.3	85.0
MARVEL	8.7	4.7	91.7	48.3	9.0	7.0	93.3	63.3
BOREAL	6.0	2.7	70.0	21.7	5.3	3.7	60.0	30.0
CARDINAL II (PPG-FRR 111)	9.0	5.3	91.7	53.3	9.0	7.3	91.7	73.3
DLFPS-FRR/3068	9.0	5.0	92.0	52.5	9.0	8.0	92.5	77.5
KENT	8.0	5.7	85.0	41.7	8.7	6.3	86.7	58.3
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.
LSD VALUE	1.6	2.1	13.5	16.2	2.0	2.4	23.1	23.6
C.V. (%)	10.8	19.6	8.2	16.6	13.5	18.0	13.8	18.2

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
   THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED IN SEPTEMBER | | | | AFTER FALL TRAFFIC WAS APPLIED IN OCTOBER | | | | | |
| | UNIFORMITY (SEPT) | | FULLNESS OF CANOPY (SEPT) | | UNIFORMITY (OCTOBER) | | BRUISING (OCTOBER) | | FULLNESS OF CANOPY (OCTOBER) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SWORD	8.0	8.5	85.0	90.0	8.5	4.5	9	9.0	90.0	52.5
JETTY (PPG-FL 106)	9.0	9.0	93.3	93.3	9.0	4.7	9	8.3	95.0	51.7
MNHD-14	9.0	8.7	93.3	91.7	9.0	4.7	9	9.0	91.7	51.7
RESOLUTE (7H7)	5.3	6.7	56.7	70.0	6.7	3.7	9	9.0	75.0	51.7
DLFPS-FL/3060	9.0	8.7	95.0	91.7	9.0	4.0	9	6.7	93.3	50.0
GLADIATOR (TH456)	7.0	7.0	71.7	71.7	8.3	4.7	9	8.3	63.3	48.3
DLF-FRC 3338	9.0	8.3	95.0	86.7	9.0	3.7	9	9.0	93.3	46.7
DLFPS-FRC/3057	9.0	9.0	95.0	93.3	9.0	3.3	9	9.0	95.0	41.7
MINIMUS	9.0	6.3	93.3	70.0	9.0	3.7	9	6.7	93.3	41.7
BOLSTER (C14-OS3)	9.0	9.0	95.0	93.3	9.0	4.3	9	8.0	93.3	40.0
DLFPS-FL/3066	9.0	8.7	95.0	90.0	9.0	3.7	9	8.0	93.3	38.3
BEACON	9.0	9.0	95.0	92.5	8.5	3.5	9	8.5	92.5	37.5
CASTLE (RAD-FC32)	9.0	9.0	95.0	95.0	9.0	3.0	9	9.0	95.0	37.5
PST-4BND	5.0	4.0	55.0	45.0	6.5	2.0	9	8.0	72.5	35.0
MOMENTUM (PPG-FRC 114)	9.0	9.0	95.0	93.3	9.0	3.0	9	8.3	93.3	30.0
QUATRO	8.7	6.3	93.3	70.0	8.3	3.0	9	6.7	83.3	30.0
SEAMIST (PPG-FRT 101)	9.0	9.0	95.0	95.0	9.0	3.0	9	5.0	95.0	30.0
RADAR	8.5	8.5	90.0	87.5	9.0	2.5	9	9.0	92.5	27.5
COMPASS II (PPG-FRC 113)	9.0	9.0	93.3	93.3	9.0	3.0	9	7.7	90.0	23.3
DLFPS-FRC/3060	9.0	9.0	95.0	92.5	9.0	2.0	9	7.0	92.5	22.5
BAR VV-VP3-CT	9.0	8.0	90.0	85.0	8.0	2.0	9	9.0	85.0	20.0
PST-4BEN	9.0	7.7	93.3	86.7	9.0	1.7	9	9.0	93.3	15.0
BEUDIN	2.0	2.3	21.7	26.7	4.0	1.0	9	5.7	41.7	13.3
PST-4ED4	9.0	9.0	91.7	91.7	9.0	1.3	9	9.0	90.0	13.3
RAD-FC44	9.0	8.5	92.5	85.0	7.5	2.5	9	9.0	92.5	12.5
RAD-FR47	7.5	6.5	77.5	77.5	8.0	1.0	9	9.0	87.5	12.5
SEABREEZE GT	6.5	5.5	65.0	62.5	7.5	1.5	9	9.0	77.5	12.5
DLF-FRR 6162	9.0	8.7	95.0	90.0	9.0	1.3	9	9.0	91.7	10.0
PST-4RUE	9.0	8.3	93.3	86.7	8.7	1.0	9	9.0	83.3	10.0
RAD-FR33R	9.0	8.0	95.0	90.0	9.0	1.0	9	9.0	95.0	10.0
CASCADE	8.7	8.3	88.3	86.7	8.7	1.0	9	9.0	88.3	8.3
NAVIGATOR II	9.0	8.3	91.7	88.3	8.7	1.3	9	9.0	90.0	8.3
PST-4DR4	8.7	7.7	88.3	80.0	8.7	1.0	9	8.7	88.3	8.3
BARPEARL (BAR FRT 5002)	3.5	3.5	35.0	40.0	3.5	1.0	9	1.5	67.5	7.5
DLFPS-FRR/3069	9.0	8.0	95.0	95.0	9.0	2.0	9	9.0	92.5	7.5
7C34	9.0	9.0	93.3	91.7	9.0	1.3	9	9.0	91.7	6.7
MARVEL	9.0	8.7	91.7	88.3	8.3	1.3	9	9.0	91.7	6.7
BOREAL	5.3	4.0	58.3	43.3	7.7	1.3	9	6.3	81.7	5.0
CARDINAL II (PPG-FRR 111)	9.0	8.7	93.3	93.3	8.7	1.0	9	9.0	91.7	5.0
DLFPS-FRR/3068	9.0	9.0	92.5	90.0	8.0	1.0	9	9.0	90.0	5.0
KENT	8.7	7.0	85.0	75.0	8.0	1.0	9	7.7	68.3	5.0
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.	.	.
LSD VALUE	2.1	2.9	22.4	28.9	1.7	1.8	0	3.3	28.9	22.1
C.V. (%)	13.9	19.0	14.3	17.8	10.7	39.4	0	17.7	14.2	49.0

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
   THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

TABLE 8B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                              GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
                                                    2018 DATA

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

| | BEFORE SPRING TRAFFIC WAS APPLIED (MAY) | | | | AFTER SPRING TRAFFIC WAS COMPLETED (JUNE) | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | FULLNESS OF CANOPY | | BRUISING | BRUISING |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DLF-FRC 3338	8.7	7.3	93.0	90.0	9.0	4.3	99.0	58.3	9	9.0
DLFPS-FRC/3057	9.0	7.7	69.3	90.0	9.0	4.0	99.0	61.7	9	9.0
BOLSTER (C14-OS3)	9.0	7.7	97.7	90.0	9.0	4.7	99.0	66.7	9	8.0
CASTLE (RAD-FC32)	7.5	6.5	90.0	80.0	8.5	4.5	90.0	52.5	9	9.0
MOMENTUM (PPG-FRC 114)	9.0	6.0	97.7	86.7	9.0	3.3	94.3	45.0	9	8.3
RADAR	9.0	7.0	94.5	85.0	9.0	4.0	97.0	47.5	9	9.0
COMPASS II (PPG-FRC 113)	8.7	6.7	95.0	90.0	9.0	4.0	97.7	55.0	9	7.7
DLFPS-FRC/3060	8.5	6.0	97.0	82.5	9.0	3.5	99.0	47.5	9	7.0
BAR VV-VP3-CT	7.0	5.0	75.0	70.0	4.0	3.0	75.0	25.0	9	9.0
RAD-FC44	7.0	4.5	77.5	70.0	7.0	2.5	80.0	27.5	9	9.0
CASCADE	8.0	6.0	89.7	81.7	8.0	3.3	86.7	46.7	9	9.0
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.	.	.
LSD VALUE	1.1	1.9	58.5	19.6	0.3	2.6	10.1	32.2	0	2.7
C.V. (%)	5.8	12.6	20.9	8.7	2.1	23.5	5.0	24.4	0	11.0

TABLE 8B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
                                              2018 DATA

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

| | RECOVERY AFTER SPRING TRAFFIC | | | | | | | |
| | UNIFORMITY (JULY) | | FULLNESS OF CANOPY (JULY) | | UNIFORMITY (AUGUST) | | FULLNESS OF CANOPY (AUGUST) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DLF-FRC 3338	9.0	6.0	99.0	66.7	9.0	7.3	97.7	71.7
DLFPS-FRC/3057	9.0	5.7	97.7	75.0	9.0	8.3	97.7	85.0
BOLSTER (C14-OS3)	9.0	6.3	99.0	76.7	9.0	8.3	97.7	85.0
CASTLE (RAD-FC32)	9.0	6.0	92.5	70.0	9.0	7.5	92.5	82.5
MOMENTUM (PPG-FRC 114)	9.0	6.0	96.0	63.3	9.0	8.0	94.7	81.7
RADAR	9.0	6.0	97.0	62.5	9.0	8.0	95.0	75.0
COMPASS II (PPG-FRC 113)	9.0	6.3	96.3	65.0	9.0	8.3	96.3	76.7
DLFPS-FRC/3060	9.0	6.0	99.0	65.0	9.0	8.0	97.0	80.0
BAR VV-VP3-CT	7.0	5.0	80.0	50.0	9.0	6.0	80.0	65.0
RAD-FC44	8.5	5.0	85.0	47.5	8.5	7.5	90.0	65.0
CASCADE	9.0	6.0	86.7	66.7	9.0	8.0	90.0	76.7
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.
LSD VALUE	0.3	3.3	5.6	18.1	0.5	0.9	4.3	18.1
C.V. (%)	2.0	16.0	3.0	11.3	2.0	5.3	2.2	9.0

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

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

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
    THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED IN SEPTEMBER | | | | AFTER FALL TRAFFIC WAS APPLIED IN OCTOBER | | | | | |
| | UNIFORMITY (SEPT) | | FULLNESS OF CANOPY (SEPT) | | UNIFORMITY (OCTOBER) | | BRUISING (OCTOBER) | | FULLNESS OF CANOPY (OCTOBER) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DLF-FRC 3338	9.0	8.3	95.0	86.7	9.0	3.7	9	9.0	93.3	46.7
DLFPS-FRC/3057	9.0	9.0	95.0	93.3	9.0	3.3	9	9.0	95.0	41.7
BOLSTER (C14-OS3)	9.0	9.0	95.0	93.3	9.0	4.3	9	8.0	93.3	40.0
CASTLE (RAD-FC32)	9.0	9.0	95.0	95.0	9.0	3.0	9	9.0	95.0	37.5
MOMENTUM (PPG-FRC 114)	9.0	9.0	95.0	93.3	9.0	3.0	9	8.3	93.3	30.0
RADAR	8.5	8.5	90.0	87.5	9.0	2.5	9	9.0	92.5	27.5
COMPASS II (PPG-FRC 113)	9.0	9.0	93.3	93.3	9.0	3.0	9	7.7	90.0	23.3
DLFPS-FRC/3060	9.0	9.0	95.0	92.5	9.0	2.0	9	7.0	92.5	22.5
BAR VV-VP3-CT	9.0	8.0	90.0	85.0	8.0	2.0	9	9.0	85.0	20.0
RAD-FC44	9.0	8.5	92.5	85.0	7.5	2.5	9	9.0	92.5	12.5
CASCADE	8.7	8.3	88.3	86.7	8.7	1.0	9	9.0	88.3	8.3
SANDRINE (BAR 6FR 126)	.	.	.	.	.	.	.	.	.	.
LSD VALUE	0.8	0.8	5.9	11.7	0.5	3.3	0	2.7	6.5	41.0
C.V. (%)	3.0	3.9	2.6	4.8	2.9	42.3	0	11.0	2.9	52.2

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
    THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

TABLE 8C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| | BEFORE SPRING TRAFFIC WAS APPLIED (MAY) | | | | AFTER SPRING TRAFFIC WAS COMPLETED (JUNE) | | | | BRUISING | BRUISING |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | FULLNESS OF CANOPY | | | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
PST-4BEN	8.7	6.3	90.0	78.3	7.7	2.0	93.0	23.3	9	9.0
PST-4ED4	7.7	5.7	85.0	75.0	8.0	2.3	89.7	30.0	9	9.0
RAD-FR47	8.0	6.0	87.5	77.5	8.0	2.0	92.0	25.0	9	9.0
DLF-FRR 6162	7.7	6.0	83.3	78.3	8.3	2.0	85.0	26.7	9	9.0
PST-4RUE	8.0	6.0	91.7	78.3	8.3	2.0	88.3	20.0	9	9.0
RAD-FR33R	8.0	5.0	90.0	75.0	7.0	2.0	90.0	25.0	9	9.0
NAVIGATOR II	7.7	5.3	93.3	80.0	8.7	1.7	86.7	21.7	9	9.0
PST-4DR4	8.7	5.3	83.3	75.0	7.0	1.7	94.7	20.0	9	8.7
DLFPS-FRR/3069	8.0	5.5	85.0	77.5	8.5	1.5	82.5	27.5	9	9.0
7C34	8.3	5.3	88.3	76.7	9.0	2.7	99.0	40.0	9	9.0
MARVEL	8.0	5.0	85.0	71.7	7.3	2.3	90.0	31.7	9	9.0
BOREAL	7.0	4.7	81.7	73.3	5.7	1.3	76.7	11.7	9	6.3
CARDINAL II (PPG-FRR 111)	7.3	5.3	88.3	78.3	9.0	2.0	91.7	25.0	9	9.0
DLFPS-FRR/3068	8.0	5.5	90.0	77.5	9.0	2.5	92.0	22.5	9	9.0
KENT	7.0	5.0	80.0	71.7	6.0	1.7	85.0	20.0	9	7.7
LSD VALUE	1.5	3.0	7.5	12.3	1.4	2.6	12.5	29.4	0	5.0
C.V. (%)	7.7	16.6	4.1	5.4	9.5	38.5	6.3	41.0	0	17.2

TABLE 8C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| | RECOVERY AFTER SPRING TRAFFIC | | | | | | | |
| | UNIFORMITY (JULY) | | FULLNESS OF CANOPY (JULY) | | UNIFORMITY (AUGUST) | | FULLNESS OF CANOPY (AUGUST) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
PST-4BEN	8.3	5.3	86.3	48.3	9.0	6.7	76.3	63.3
PST-4ED4	8.7	5.7	91.3	56.7	9.0	8.3	93.0	76.7
RAD-FR47	8.0	5.0	87.0	45.0	7.5	6.0	84.5	62.5
DLF-FRR 6162	8.7	5.7	88.3	56.7	9.0	8.0	93.3	75.0
PST-4RUE	8.7	5.7	91.7	48.3	9.0	7.3	93.3	75.0
RAD-FR33R	8.0	5.0	90.0	55.0	9.0	7.0	90.0	70.0
NAVIGATOR II	9.0	5.0	90.0	43.3	9.0	7.3	91.7	61.7
PST-4DR4	7.0	4.3	93.0	48.3	8.7	7.0	93.0	68.3
DLFPS-FRR/3069	9.0	5.0	87.5	55.0	9.0	8.0	92.5	77.5
7C34	9.0	6.0	99.0	63.3	9.0	8.7	96.3	85.0
MARVEL	8.7	4.7	91.7	48.3	9.0	7.0	93.3	63.3
BOREAL	6.0	2.7	70.0	21.7	5.3	3.7	60.0	30.0
CARDINAL II (PPG-FRR 111)	9.0	5.3	91.7	53.3	9.0	7.3	91.7	73.3
DLFPS-FRR/3068	9.0	5.0	92.0	52.5	9.0	8.0	92.5	77.5
KENT	8.0	5.7	85.0	41.7	8.7	6.3	86.7	58.3
LSD VALUE	1.7	2.0	12.8	15.9	0.9	1.6	24.6	19.4
C.V. (%)	9.7	17.3	6.8	16.4	5.9	12.1	12.0	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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
    THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED IN SEPTEMBER | | | | AFTER FALL TRAFFIC WAS APPLIED IN OCTOBER | | | | | |
| | UNIFORMITY (SEPT) | | FULLNESS OF CANOPY (SEPT) | | UNIFORMITY (OCTOBER) | | BRUISING (OCTOBER) | | FULLNESS OF CANOPY (OCT) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
PST-4BEN	9.0	7.7	93.3	86.7	9.0	1.7	9	9.0	93.3	15.0
PST-4ED4	9.0	9.0	91.7	91.7	9.0	1.3	9	9.0	90.0	13.3
RAD-FR47	7.5	6.5	77.5	77.5	8.0	1.0	9	9.0	87.5	12.5
DLF-FRR 6162	9.0	8.7	95.0	90.0	9.0	1.3	9	9.0	91.7	10.0
PST-4RUE	9.0	8.3	93.3	86.7	8.7	1.0	9	9.0	83.3	10.0
RAD-FR33R	9.0	8.0	95.0	90.0	9.0	1.0	9	9.0	95.0	10.0
NAVIGATOR II	9.0	8.3	91.7	88.3	8.7	1.3	9	9.0	90.0	8.3
PST-4DR4	8.7	7.7	88.3	80.0	8.7	1.0	9	8.7	88.3	8.3
DLFPS-FRR/3069	9.0	8.0	95.0	95.0	9.0	2.0	9	9.0	92.5	7.5
7C34	9.0	9.0	93.3	91.7	9.0	1.3	9	9.0	91.7	6.7
MARVEL	9.0	8.7	91.7	88.3	8.3	1.3	9	9.0	91.7	6.7
BOREAL	5.3	4.0	58.3	43.3	7.7	1.3	9	6.3	81.7	5.0
CARDINAL II (PPG-FRR 111)	9.0	8.7	93.3	93.3	8.7	1.0	9	9.0	91.7	5.0
DLFPS-FRR/3068	9.0	9.0	92.5	90.0	8.0	1.0	9	9.0	90.0	5.0
KENT	8.7	7.0	85.0	75.0	8.0	1.0	9	7.7	68.3	5.0
LSD VALUE	0.9	1.8	11.4	13.1	1.4	1.7	0	5.0	36.4	11.2
C.V. (%)	6.0	11.9	7.0	8.6	6.4	40.7	0	17.2	13.2	50.1

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
    THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

TABLE 8D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                            GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
                                             2018 DATA

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

| | BEFORE SPRING TRAFFIC WAS APPLIED (MAY) | | | | AFTER SPRING TRAFFIC WAS COMPLETED (JUNE) | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | FULLNESS OF CANOPY | | BRUISING | BRUISING |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SWORD	8.5	6.0	92.0	87.5	6.5	3.0	84.5	32.5	9	9.0
JETTY (PPG-FL 106)	8.7	7.3	96.0	91.7	9.0	4.3	99.0	60.0	9	8.3
MNHD-14	9.0	7.0	91.3	83.3	9.0	3.7	99.0	56.7	9	9.0
RESOLUTE (7H7)	8.7	7.3	97.7	90.0	9.0	5.0	99.0	60.0	9	9.0
DLFPS-FL/3060	9.0	7.0	97.7	86.7	9.0	2.7	97.7	36.7	9	6.7
GLADIATOR (TH456)	9.0	7.3	99.0	91.7	9.0	3.0	99.0	40.0	9	8.3
MINIMUS	9.0	7.3	99.0	88.3	8.3	3.0	97.7	38.3	9	6.7
DLFPS-FL/3066	8.7	6.3	93.0	85.0	9.0	3.3	93.0	43.3	9	8.0
BEACON	9.0	7.5	99.0	90.0	8.5	4.0	94.5	47.5	9	8.5
PST-4BND	8.5	6.0	92.5	80.0	6.5	3.0	97.0	45.0	9	8.0
QUATRO	9.0	6.7	97.7	86.7	8.7	4.3	97.7	56.7	9	6.7
LSD VALUE	1.2	2.4	8.5	18.7	2.3	1.2	14.5	15.3	0	3.8
C.V. (%)	4.6	12.3	3.7	7.4	11.6	16.6	5.7	16.7	0	17.9

TABLE 8D.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
                                       2018 DATA

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

                                RECOVERY AFTER SPRING TRAFFIC

| | UNIFORMITY (JULY) | | FULLNESS OF CANOPY (JULY) | | UNIFORMITY (AUGUST) | | FULLNESS OF CANOPY (AUG) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SWORD	7.0	4.5	84.5	50.0	8.0	7.0	85.0	65.0
JETTY (PPG-FL 106)	9.0	6.3	99.0	68.3	9.0	8.3	96.3	80.0
MNHD-14	9.0	5.7	96.0	66.7	9.0	7.7	97.7	76.7
RESOLUTE (7H7)	5.7	5.0	76.3	63.3	4.7	6.0	55.0	65.0
DLFPS-FL/3060	9.0	5.7	97.7	55.0	9.0	7.0	97.7	66.7
GLADIATOR (TH456)	7.7	4.7	88.0	50.0	6.7	6.0	75.0	56.7
MINIMUS	8.7	4.3	99.0	50.0	9.0	5.7	97.7	60.0
DLFPS-FL/3066	9.0	5.3	94.7	60.0	8.7	7.3	94.7	75.0
BEACON	9.0	6.0	97.0	62.5	9.0	8.0	97.0	77.5
PST-4BND	5.5	3.5	87.5	47.5	5.0	3.5	77.5	45.0
QUATRO	9.0	4.7	97.7	56.7	8.7	6.0	96.3	61.7
LSD VALUE	2.4	3.3	24.2	24.4	3.7	5.5	35.5	46.4
C.V. (%)	14.6	23.8	10.6	17.0	21.4	30.1	17.8	25.0

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
    THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED IN SEPTEMBER | | | | AFTER FALL TRAFFIC WAS APPLIED IN OCTOBER | | | | | |
| | UNIFORMITY (SEPT) | | FULLNESS OF CANOPY (SEPT) | | UNIFORMITY (OCTOBER) | | BRUISING (OCTOBER) | | FULLNESS OF CANOPY (OCT) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SWORD	8.0	8.5	85.0	90.0	8.5	4.5	9	9.0	90.0	52.5
JETTY (PPG-FL 106)	9.0	9.0	93.3	93.3	9.0	4.7	9	8.3	95.0	51.7
MNHD-14	9.0	8.7	93.3	91.7	9.0	4.7	9	9.0	91.7	51.7
RESOLUTE (7H7)	5.3	6.7	56.7	70.0	6.7	3.7	9	9.0	75.0	51.7
DLFPS-FL/3060	9.0	8.7	95.0	91.7	9.0	4.0	9	6.7	93.3	50.0
GLADIATOR (TH456)	7.0	7.0	71.7	71.7	8.3	4.7	9	8.3	63.3	48.3
MINIMUS	9.0	6.3	93.3	70.0	9.0	3.7	9	6.7	93.3	41.7
DLFPS-FL/3066	9.0	8.7	95.0	90.0	9.0	3.7	9	8.0	93.3	38.3
BEACON	9.0	9.0	95.0	92.5	8.5	3.5	9	8.5	92.5	37.5
PST-4BND	5.0	4.0	55.0	45.0	6.5	2.0	9	8.0	72.5	35.0
QUATRO	8.7	6.3	93.3	70.0	8.3	3.0	9	6.7	83.3	30.0
LSD VALUE	3.9	6.7	41.2	67.2	3.0	3.1	0	3.8	37.6	32.5
C.V. (%)	21.1	31.7	20.9	29.9	14.2	29.4	0	17.9	17.3	26.6

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
   THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

| | BEFORE SPRING TRAFFIC WAS APPLIED (MAY) | | | | AFTER SPRING TRAFFIC WAS COMPLETED (JUNE) | | | | | |
| | UNIFORMITY | | FULLNESS OF CANOPY | | UNIFORMITY | | FULLNESS OF CANOPY | | BRUISING | BRUISING |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SEAMIST (PPG-FRT 101)	8.0	6.0	95.0	80.0	9.0	3.0	99.0	40.0	9	5.0
BEUDIN	5.3	3.3	76.7	58.3	4.7	1.0	76.7	13.3	9	5.7
SEABREEZE GT	6.5	4.0	80.0	67.5	6.5	3.0	80.0	25.0	9	9.0
BARPEARL (BAR FRT 5002)	5.0	4.0	67.5	45.0	3.5	1.5	65.0	12.5	9	1.5
LSD VALUE	4.5	2.0	13.9	31.2	5.1	1.5	18.4	17.9	0	8.0
C.V. (%)	24.9	14.4	4.7	14.9	27.2	19.5	5.8	23.1	0	46.1

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

RECOVERY AFTER SPRING TRAFFIC

| | UNIFORMITY (JULY) | | FULLNESS OF CANOPY (JULY) | | UNIFORMITY (AUGUST) | | FULLNESS OF CANOPY (AUGUST) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SEAMIST (PPG-FRT 101)	9.0	7.0	99.0	55.0	9.0	8.0	95.0	70.0
BEUDIN	3.7	2.0	56.7	18.3	2.7	2.3	38.3	23.3
SEABREEZE GT	7.5	4.5	75.0	35.0	7.5	4.5	70.0	42.5
BARPEARL (BAR FRT 5002)	3.5	2.0	50.0	20.0	4.0	2.5	42.5	27.5
LSD VALUE	4.1	4.4	20.0	13.8	3.1	4.1	32.4	11.9
C.V. (%)	20.3	35.5	6.9	10.5	14.6	29.4	14.6	6.4

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
(CONT'D)   GROWN UNDER TRAFFIC STRESS ON A LAWN AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

| | BEFORE FALL TRAFFIC WAS APPLIED IN SEPTEMBER | | | | AFTER FALL TRAFFIC WAS APPLIED IN OCTOBER | | | | | |
| | UNIFORMITY (SEPT) | | FULLNESS OF CANOPY (SEPT) | | UNIFORMITY (OCTOBER) | | BRUISING (OCTOBER) | | FULLNESS OF CANOPY (OCT) | |
NAME	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
SEAMIST (PPG-FRT 101)	9.0	9.0	95.0	95.0	9.0	3.0	9	5.0	95.0	30.0
BEUDIN	2.0	2.3	21.7	26.7	4.0	1.0	9	5.7	41.7	13.3
SEABREEZE GT	6.5	5.5	65.0	62.5	7.5	1.5	9	9.0	77.5	12.5
BARPEARL (BAR FRT 5002)	3.5	3.5	35.0	40.0	3.5	1.0	9	1.5	67.5	7.5
LSD VALUE	3.3	3.2	16.0	19.1	5.0	1.4	0	8.0	47.1	8.3
C.V. (%)	16.7	17.2	6.4	7.7	27.2	26.6	0	46.1	20.0	13.3

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.

*/ TRAFFIC WAS APPLIED AS TWO PASSES PER WEEK OF THE CADY TRAFFIC SIMULATOR (CTS) AND TWO PASSES PER WEEK OF
    THE RUTGERS WEAR SIMULATOR (RWS) WERE MADE FOR SIX WEEKS (24 TOTAL PASSES) IN SPRING AND REPEATED IN THE FALL

TABLE 9A.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                             GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
                                                    2018 DATA

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

| NAME | PERCENT GROUND COVER | | | RED THREAD | QUALITY RATINGS | | | | | | | | | | | | |
	SPRING	SUMMER	FALL		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
7C34	90.3	88.0	96.3	9.0	3.3	4.3	4.7	5.7	6.7	6.7	6.7	5.3	6.3	6.7	6.7	6.7	5.8
BEUDIN	95.7	91.3	97.0	9.0	4.3	4.0	4.3	4.7	6.3	7.0	6.7	5.3	5.3	6.3	7.0	7.0	5.7
CARDINAL II (PPG-FRR 111)	92.0	81.7	93.7	9.0	3.3	4.0	4.0	6.0	6.0	6.7	6.3	5.7	6.7	6.0	6.0	6.3	5.6
RADAR	92.3	83.0	94.7	9.0	4.0	3.7	3.7	5.3	6.3	6.7	6.3	6.0	6.0	6.3	6.3	6.3	5.6
MOMENTUM (PPG-FRC 114)	92.7	84.7	94.7	8.3	3.7	3.7	4.0	5.0	6.0	6.7	6.3	6.0	6.3	6.0	6.0	6.0	5.5
RAD-FR47	88.7	84.3	95.0	9.0	3.3	4.0	4.3	5.0	6.0	6.3	6.7	5.7	5.7	6.0	6.0	6.7	5.5
BEACON	86.3	85.0	96.7	8.3	3.7	3.7	4.0	4.7	6.0	6.0	6.3	6.0	5.0	6.0	6.3	6.7	5.4
BOLSTER (C14-OS3)	93.0	90.0	96.7	9.0	3.3	3.7	4.0	5.7	6.0	6.7	6.0	5.0	6.0	6.0	6.3	6.7	5.4
COMPASS II (PPG-FRC 113)	92.7	80.3	95.7	8.7	3.7	3.3	4.3	5.7	6.0	6.0	6.7	5.7	5.7	5.7	6.0	6.0	5.4
DLF-FRC 3338	83.3	88.7	97.7	8.7	3.0	3.7	3.7	5.3	6.0	6.7	6.7	5.7	5.7	6.0	6.3	6.3	5.4
DLFPS-FRC/3057	91.7	84.3	95.7	9.0	3.7	3.3	4.0	5.0	6.0	6.7	5.7	5.3	6.0	6.3	6.0	6.3	5.4
JETTY (PPG-FL 106)	87.3	86.3	95.3	9.0	3.3	3.7	4.0	5.0	6.0	7.0	6.0	6.3	5.7	6.0	6.0	6.3	5.4
KENT	87.0	80.0	92.0	7.0	4.0	4.0	4.0	5.0	6.3	5.7	6.3	5.7	6.0	6.0	6.0	5.7	5.4
MARVEL	88.0	85.0	94.3	8.7	2.7	4.0	4.0	5.0	5.7	6.0	6.7	5.3	6.0	6.3	6.3	6.3	5.4
PST-4BEN	90.3	82.3	93.7	9.0	3.3	4.0	4.3	5.3	6.3	6.0	6.3	5.0	5.7	5.7	6.3	6.3	5.4
PST-4DR4	88.7	86.7	96.0	8.7	3.7	4.0	4.0	5.0	6.0	5.7	6.7	5.7	6.0	6.0	6.0	6.0	5.4
RESOLUTE (7H7)	86.3	90.7	96.7	9.0	3.3	3.7	3.3	4.7	6.0	5.7	6.7	6.0	5.7	6.0	6.7	6.7	5.4
SEAMIST (PPG-FRT 101)	93.0	89.0	96.3	9.0	3.7	3.3	4.0	5.3	5.7	6.0	6.7	5.7	6.0	6.0	6.0	6.0	5.4
BARPEARL (BAR FRT 5002)	82.7	90.0	96.3	8.7	4.0	3.7	3.7	4.0	5.3	6.0	6.3	5.7	5.7	6.3	6.7	6.7	5.3
CASTLE (RAD-FC32)	90.7	86.0	96.7	8.3	3.7	3.7	4.0	5.0	6.0	6.0	6.7	6.0	5.3	5.3	6.0	6.0	5.3
DLF-FRR 6162	86.7	88.0	95.7	8.7	3.7	3.0	3.3	5.3	5.7	6.0	6.3	6.0	5.7	6.3	6.0	6.0	5.3
DLFPS-FRC/3060	90.3	88.7	97.3	7.3	3.3	3.3	3.7	5.0	5.7	6.3	7.0	6.0	6.0	6.0	6.0	5.7	5.3
SANDRINE (BAR 6FR 126)	95.3	90.0	97.3	9.0	4.0	3.7	4.3	5.0	6.3	6.3	6.0	5.3	5.0	5.3	5.3	6.7	5.3
BAR VV-VP3-CT	92.3	86.0	89.7	9.0	3.7	3.0	3.0	4.3	6.0	6.0	6.0	5.0	6.7	6.3	6.3	6.0	5.2
BOREAL	87.0	84.7	89.7	8.0	2.3	3.3	3.7	4.3	6.3	6.0	6.3	6.0	6.0	5.7	6.0	6.0	5.2
DLFPS-FL/3066	84.3	89.0	97.3	8.7	3.0	3.7	4.0	4.7	6.0	6.0	6.3	6.0	5.3	5.3	5.7	6.3	5.2
PST-4ED4	88.7	82.3	90.7	9.0	3.3	3.0	3.7	5.3	5.3	6.3	6.0	5.7	6.0	5.7	6.0	6.0	5.2
PST-4RUE	89.0	79.3	93.7	9.0	3.0	3.3	3.7	4.7	5.7	5.7	6.3	5.3	6.3	6.3	6.0	6.0	5.2
DLFPS-FRR/3068	83.7	90.0	97.0	8.7	3.3	3.3	4.0	4.7	6.0	6.0	6.3	6.0	5.3	5.0	5.7	6.0	5.1
DLFPS-FRR/3069	86.0	87.0	92.3	8.0	3.0	3.0	3.0	4.3	6.0	6.0	6.3	5.7	5.7	6.0	6.0	6.0	5.1
MINIMUS	84.3	86.7	93.7	9.0	4.0	3.0	3.0	5.3	5.3	5.7	6.0	5.3	4.7	5.7	6.0	6.7	5.1
RAD-FR33R	86.7	82.7	93.3	9.0	2.3	3.3	3.3	4.7	5.3	5.7	7.0	5.7	6.0	5.7	6.0	6.0	5.1
SEABREEZE GT	84.3	88.0	97.7	7.0	3.7	3.7	4.3	4.7	6.0	6.3	6.3	5.7	5.0	5.3	5.0	5.3	5.1
CASCADE	86.0	88.3	93.0	7.7	3.3	3.3	3.7	5.0	5.3	6.0	6.3	5.0	5.0	6.0	5.7	5.7	5.0
DLFPS-FL/3060	83.0	88.7	96.3	8.3	3.0	3.7	3.3	4.3	5.0	5.3	6.7	5.7	5.3	5.7	6.0	6.0	5.0
NAVIGATOR II	76.3	82.3	90.0	8.3	3.3	3.3	3.7	4.0	5.3	6.3	6.3	5.3	5.7	5.7	5.7	5.7	5.0
SWORD	78.7	89.3	96.7	8.7	3.7	3.3	3.3	4.3	5.3	5.7	6.3	5.3	5.0	6.0	5.7	6.0	5.0
GLADIATOR (TH456)	88.3	89.7	95.7	9.0	3.3	3.0	3.0	4.3	5.7	5.7	6.7	5.0	5.0	5.3	5.7	6.0	4.9
QUATRO	83.3	88.7	95.0	9.0	3.7	4.3	3.7	3.7	4.3	5.3	6.7	5.3	5.0	5.3	5.7	5.7	4.9
PST-4BND	81.7	87.0	94.3	9.0	2.3	2.7	2.7	4.0	5.0	5.3	6.3	5.7	5.7	5.7	6.0	6.3	4.8
RAD-FC44	90.3	87.0	95.3	9.0	3.3	3.0	3.3	4.7	5.3	6.0	6.0	5.3	5.3	5.0	5.0	5.3	4.8
MNHD-14	82.0	88.3	90.0	8.7	2.7	2.3	2.7	4.3	5.0	6.0	7.0	5.7	5.0	5.0	5.0	5.3	4.7
LSD VALUE	17.0	16.4	7.2	1.0	1.4	2.3	2.3	3.2	2.2	1.1	1.7	1.5	1.7	2.3	1.0	1.9	1.0
C.V. (%)	7.2	5.9	3.2	6.4	18.1	20.0	20.2	18.7	12.7	8.7	7.9	9.3	12.1	11.7	8.1	10.3	6.8

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 9B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
2018 DATA

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

NAME	PERCENT GROUND COVER SPRING	SUMMER	FALL	RED THREAD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
RADAR	92.3	83.0	94.7	9.0	4.0	3.7	3.7	5.3	6.3	6.7	6.3	6.0	6.0	6.3	6.3	6.3	5.6
MOMENTUM (PPG-FRC 114)	92.7	84.7	94.7	8.3	3.7	3.7	4.0	5.0	6.0	6.7	6.3	6.0	6.3	6.0	6.0	6.0	5.5
BOLSTER (C14-OS3)	93.0	90.0	96.7	9.0	3.3	3.7	4.0	5.7	6.0	6.7	6.0	5.0	6.0	6.0	6.3	6.7	5.4
COMPASS II (PPG-FRC 113)	92.7	80.3	95.7	8.7	3.7	3.3	4.3	5.7	6.0	6.0	6.7	5.7	5.7	5.7	6.0	6.0	5.4
DLF-FRC 3338	83.3	88.7	97.7	8.7	3.0	3.7	3.7	5.3	6.0	6.7	6.7	5.7	5.7	6.0	6.3	6.3	5.4
DLFPS-FRC/3057	91.7	84.3	95.7	9.0	3.7	3.3	4.0	5.0	6.0	6.7	5.7	5.3	6.0	6.3	6.0	6.3	5.4
CASTLE (RAD-FC32)	90.7	86.0	96.7	8.3	3.7	3.7	4.0	5.0	6.0	6.0	6.7	6.0	5.3	5.3	6.0	6.0	5.3
DLFPS-FRC/3060	90.3	88.7	97.3	7.3	3.3	3.3	3.7	5.0	5.7	6.3	7.0	5.0	6.0	6.0	6.0	5.7	5.3
SANDRINE (BAR 6FR 126)	95.3	90.0	97.3	9.0	4.0	3.7	4.3	5.0	6.3	6.3	6.0	5.3	5.0	5.3	5.3	6.7	5.3
BAR VV-VP3-CT	92.3	86.0	89.7	9.0	3.7	3.0	3.0	4.3	6.0	6.0	6.0	5.0	6.7	6.3	6.3	6.0	5.2
CASCADE	86.0	88.3	93.0	7.7	3.3	3.3	3.7	5.0	5.3	6.0	6.3	5.0	5.0	6.0	5.7	5.7	5.0
RAD-FC44	90.3	87.0	95.3	9.0	3.3	3.0	3.3	4.7	5.3	6.0	6.0	5.3	5.3	5.0	5.0	5.3	4.8
LSD VALUE	9.1	18.6	6.3	1.4	1.5	2.0	1.4	1.9	1.8	0.9	0.9	1.2	1.6	1.9	1.6	2.0	0.7
C.V. (%)	4.5	7.4	3.0	7.7	15.4	18.9	14.8	13.8	10.9	6.3	7.1	9.8	12.2	12.2	10.9	12.2	5.7

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 TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
2018 DATA

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

NAME	PERCENT GROUND COVER SPRING	SUMMER	FALL	RED THREAD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
7C34	90.3	88.0	96.3	9.0	3.3	4.3	4.7	5.7	6.7	6.7	6.7	5.3	6.3	6.7	6.7	6.7	5.8
CARDINAL II (PPG-FRR 111)	92.0	81.7	93.7	9.0	3.3	4.0	4.0	6.0	6.0	6.7	6.3	5.7	6.7	6.0	6.0	6.3	5.6
RAD-FR47	88.7	84.3	95.0	9.0	3.3	4.0	4.3	5.0	6.0	6.3	6.7	5.7	5.7	6.0	6.0	6.7	5.5
KENT	87.0	80.0	92.0	7.0	4.0	4.0	4.0	5.0	6.3	5.7	6.3	5.7	6.0	6.0	6.0	5.7	5.4
MARVEL	88.0	85.0	94.3	8.7	2.7	4.0	4.0	5.0	5.7	6.0	6.7	5.3	6.0	6.3	6.3	6.3	5.4
PST-4BEN	90.3	82.3	93.7	9.0	3.3	4.0	4.3	5.3	6.3	6.0	6.3	5.0	5.7	5.7	6.0	6.3	5.4
PST-4DR4	88.7	86.7	96.0	8.7	3.7	4.0	4.0	5.0	6.0	5.7	6.7	5.7	6.0	6.0	6.0	6.0	5.4
DLF-FRR 6162	86.7	88.0	95.7	8.7	3.7	3.0	3.3	5.3	5.7	6.0	6.3	6.0	5.7	6.3	6.0	6.0	5.3
BOREAL	87.0	84.7	89.7	8.0	2.3	3.3	3.7	4.3	6.3	6.0	6.3	6.0	6.0	5.7	6.0	6.0	5.2
PST-4ED4	88.7	82.3	90.7	9.0	3.3	3.0	3.7	5.3	5.3	6.3	6.0	5.7	6.0	5.7	6.0	6.0	5.2
PST-4RUE	89.0	79.3	93.7	9.0	3.0	3.3	3.7	4.7	5.7	5.7	6.3	5.3	6.3	6.3	6.0	6.0	5.2
DLFPS-FRR/3068	83.7	90.0	97.0	8.7	3.3	3.3	4.0	4.7	6.0	6.0	6.3	6.0	5.3	5.0	5.7	6.0	5.1
DLFPS-FRR/3069	86.0	87.0	92.3	8.0	3.0	3.0	3.0	4.3	6.0	6.0	6.3	5.7	5.7	5.7	6.0	6.0	5.1
RAD-FR33R	86.7	82.7	93.3	9.0	2.3	3.3	3.3	4.7	5.3	5.7	7.0	5.7	6.0	5.7	6.0	6.0	5.1
NAVIGATOR II	76.3	82.3	90.0	8.3	3.3	3.3	3.7	4.0	5.3	6.3	6.3	5.3	5.7	5.7	5.7	5.7	5.0
LSD VALUE	17.3	16.1	9.2	1.1	1.5	1.6	2.4	2.9	2.2	1.2	1.7	1.9	2.0	1.3	0.7	1.0	1.0
C.V. (%)	7.2	6.7	3.8	6.6	19.6	18.1	21.3	20.1	12.8	7.9	8.5	10.7	11.2	9.2	5.1	6.6	6.8

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 9D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
2018 DATA

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

| | PERCENT GROUND COVER | | | RED | QUALITY RATINGS | | | | | | | | | | | | |
NAME	SPRING	SUMMER	FALL	THREAD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BEACON	86.3	85.0	96.7	8.3	3.7	3.7	4.0	4.7	6.0	6.0	6.3	6.0	5.0	6.0	6.3	6.7	5.4
JETTY (PPG-FL 106)	87.3	86.3	95.3	9.0	3.3	3.7	4.0	5.0	6.0	7.0	6.0	6.3	5.7	6.0	6.0	6.3	5.4
RESOLUTE (7H7)	86.3	90.7	96.7	9.0	3.3	3.7	3.3	4.7	6.0	5.7	6.7	6.0	5.7	6.0	6.7	6.7	5.4
DLFPS-FL/3066	84.3	89.0	97.3	8.7	3.0	3.7	4.0	4.7	6.0	6.0	6.3	6.0	5.3	5.3	5.7	6.3	5.2
MINIMUS	84.3	86.7	93.7	9.0	4.0	3.0	3.0	5.3	5.3	5.7	6.0	5.3	4.7	5.7	6.0	6.7	5.1
DLFPS-FL/3060	83.0	88.7	96.3	8.3	3.0	3.7	3.3	4.3	5.0	5.3	6.7	5.7	5.3	5.7	6.0	6.0	5.0
SWORD	78.7	89.3	96.7	8.7	3.7	3.3	3.3	4.3	5.3	5.7	6.3	5.3	5.0	6.0	5.7	6.0	5.0
GLADIATOR (TH456)	88.3	89.7	95.7	9.0	3.3	3.0	3.0	4.3	5.7	5.7	6.7	5.0	5.0	5.3	5.7	6.0	4.9
QUATRO	83.3	88.7	95.0	9.0	3.7	4.3	3.7	3.7	4.3	5.3	6.7	5.3	5.0	5.3	5.7	5.7	4.9
PST-4BND	81.7	87.0	94.3	9.0	2.3	2.7	2.7	4.0	5.0	5.3	6.3	5.7	5.7	5.7	6.0	6.3	4.8
MNHD-14	82.0	88.3	90.0	8.7	2.7	2.3	2.7	4.3	5.0	6.0	7.0	5.7	5.0	5.0	5.0	5.3	4.7
LSD VALUE	20.3	9.3	7.7	1.3	1.5	1.4	1.5	2.7	1.8	1.7	1.2	1.0	2.1	2.3	1.1	2.1	1.0
C.V. (%)	8.2	3.8	3.3	5.6	20.0	19.6	19.6	21.3	14.1	12.0	7.4	8.1	14.1	14.2	8.5	12.6	7.6

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

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

TABLE 9E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS ON A LAWN AT CORVALLIS, OR 1/
2018 DATA

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

| | PERCENT GROUND COVER | | | RED | QUALITY RATINGS | | | | | | | | | | | | |
NAME	SPRING	SUMMER	FALL	THREAD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BEUDIN	95.7	91.3	97.0	9.0	4.3	4.0	4.3	4.7	6.3	7.0	6.7	5.3	5.3	6.3	7.0	7.0	5.7
SEAMIST (PPG-FRT 101)	93.0	89.0	96.3	9.0	3.7	3.3	4.0	5.3	5.7	6.0	6.7	5.7	6.0	6.0	6.0	6.0	5.4
BARPEARL (BAR FRT 5002)	82.7	90.0	96.3	8.7	4.0	3.7	3.7	4.0	5.3	6.0	6.3	5.7	5.7	6.3	6.7	6.7	5.3
SEABREEZE GT	84.3	88.0	97.7	7.0	3.7	3.7	4.3	4.7	6.0	6.3	6.3	5.7	5.0	5.3	5.0	5.3	5.1
LSD VALUE	24.8	5.5	2.8	0.6	1.1	1.7	1.9	1.5	1.2	1.3	1.4	0.7	1.2	1.3	0.6	0.8	0.4
C.V. (%)	12.3	2.7	1.3	3.4	12.0	20.3	19.6	14.7	9.5	9.1	9.2	5.2	10.1	9.6	4.7	6.0	3.6

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

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

```
TABLE 10A.                    MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
                                       GROWN UNDER SHADE AT CARBONDALE, IL  1/
                                                   2018 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       96.0      92.0     6.0    5.7    8.7    9.0    8.7    8.3    8.7    8.3    8.3    8.0
BOLSTER (C14-OS3)  95.3      83.7     6.3    5.0    8.3    9.0    8.3    7.3    8.0    8.0    8.3    7.6
CASCADE            81.3      87.3     7.0    6.0    8.0    8.3    8.3    7.7    7.0    7.7    8.0    7.6
DLFPS-FRC/3057     84.3      87.3     5.3    5.0    8.7    8.7    8.7    8.3    7.0    8.0    8.3    7.6
CASTLE (RAD-FC32)  85.7      84.7     5.0    5.3    7.3    8.3    8.7    8.3    8.3    8.0    8.0    7.5
BAR VV-VP3-CT      84.7      90.0     6.0    5.3    8.0    8.3    8.3    7.7    7.7    7.7    8.0    7.4
RADAR              74.0      86.7     5.7    6.0    7.7    8.3    7.7    7.3    8.0    8.3    8.0    7.4
SEAMIST (PPG-FRT 101) 77.0   83.0     5.7    5.7    8.3    8.3    8.0    7.7    7.3    8.0    8.0    7.4
COMPASS II (PPG-FRC 113) 71.0 81.0    6.0    5.7    7.7    8.7    8.3    8.0    6.7    6.7    7.7    7.3
DLF-FRR 6162       89.3      89.3     5.3    5.0    8.0    7.3    7.7    7.7    8.0    7.7    8.3    7.2
GLADIATOR (TH456)  81.7      87.7     5.7    6.0    7.3    8.0    7.7    7.7    7.0    7.7    7.0    7.1
DLFPS-FL/3060      73.7      84.7     6.0    5.7    6.7    7.7    7.7    7.0    6.3    7.0    7.7    6.9
DLFPS-FRR/3068     77.0      78.3     5.7    6.0    7.7    7.0    7.3    7.7    6.7    7.0    7.3    6.9
MOMENTUM (PPG-FRC 114) 66.7  74.0     5.3    5.0    8.3    8.3    7.3    6.7    6.3    7.3    7.7    6.9
RAD-FC44           80.3      76.3     6.0    5.0    7.0    7.7    7.0    7.0    8.0    7.3    6.3    6.8
DLFPS-FRC/3060     73.3      72.3     5.3    5.3    7.7    7.7    7.7    6.7    6.3    6.7    7.0    6.7
MINIMUS            64.0      67.0     5.3    5.0    8.0    7.7    7.0    6.0    6.7    7.3    7.3    6.7
RAD-FR33R          81.3      81.3     5.3    5.0    6.7    8.3    7.7    6.7    6.0    7.0    7.3    6.7
SWORD              78.3      90.0     6.0    4.7    7.3    7.0    7.0    6.7    6.3    7.7    8.0    6.7
JETTY (PPG-FL 106) 58.7      66.0     5.7    6.0    8.3    8.0    6.7    5.7    5.7    6.3    7.0    6.6
SANDRINE (BAR 6FR 126) 76.0  74.0     4.7    5.0    7.0    7.3    7.3    7.0    7.3    6.7    7.3    6.6
BEACON             65.7      77.3     5.7    5.3    6.7    7.7    7.0    6.7    5.7    7.0    6.7    6.5
PST-4BEN           71.3      70.0     5.0    5.0    7.7    7.0    7.0    6.7    6.3    6.7    6.3    6.4
PST-4BND           74.0      68.7     5.3    4.7    7.7    8.0    7.3    6.0    5.0    7.0    7.0    6.4
BARPEARL (BAR FRT 5002) 60.0 69.7     5.3    5.3    6.7    7.3    6.7    6.3    6.7    6.3    6.3    6.3
PST-4DR4           73.3      73.7     5.3    4.7    6.7    7.0    7.0    6.3    6.7    6.3    6.3    6.3
RAD-FR47           88.3      70.3     5.7    5.7    6.7    6.7    6.3    6.3    6.7    6.3    6.3    6.3
KENT               71.0      72.7     5.0    4.7    7.0    7.0    6.7    6.7    6.0    6.3    6.3    6.2
MNHD-14            64.3      69.3     5.3    5.0    7.0    6.3    6.3    6.0    6.3    6.7    6.7    6.2
7C34               57.3      60.7     4.7    4.3    6.7    7.3    7.0    6.3    6.0    6.3    6.7    6.1
BOREAL             55.3      73.3     4.3    4.7    6.3    6.7    6.3    6.0    6.3    6.3    6.0    5.9
NAVIGATOR II       57.3      62.0     5.0    5.0    7.0    6.7    6.7    5.7    5.0    5.7    5.7    5.8
PST-4ED4           74.0      77.7     4.7    4.3    6.0    6.7    6.0    5.3    6.3    6.0    7.0    5.8
QUATRO             62.3      65.3     5.7    5.0    5.7    5.7    6.0    5.7    5.3    6.3    6.0    5.7
BEUDIN             62.7      75.3     4.3    4.7    6.0    6.3    6.0    5.7    5.0    6.0    6.0    5.6
PST-4RUE           70.7      69.7     4.3    4.3    6.0    6.3    6.0    5.3    6.0    5.7    6.3    5.6
SEABREEZE GT       56.0      63.0     4.7    4.3    6.0    6.3    6.0    5.3    5.0    6.0    5.3    5.4
RESOLUTE (7H7)     29.3      46.7     4.7    4.3    6.0    5.7    4.7    4.7    3.7    5.3    5.3    4.9
MARVEL             32.3      41.0     4.0    4.0    5.7    5.7    5.3    5.0    3.3    5.0    5.3    4.8
DLFPS-FL/3066      25.3      26.0     4.3    4.3    5.7    5.3    4.7    4.3    4.7    4.3    4.7    4.7
CARDINAL II (PPG-FRR 111) 21.0 23.0   4.0    3.7    5.3    5.0    4.3    4.0    3.7    4.3    4.0    4.3
DLFPS-FRR/3069     27.0      31.7     3.3    3.0    4.7    5.0    4.7    4.3    4.0    4.7    4.7    4.3

LSD VALUE          25.6      24.2     1.1    1.1    1.6    1.4    1.3    1.5    1.8    1.5    1.8    1.0
C.V. (%)           22.8      20.2    12.1   12.6   13.1   11.6   12.2   13.9   17.5   13.2   15.4    9.6
```

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

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

TABLE 10B.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
                                GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                              2018 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	96.0	92.0	6.0	5.7	8.7	9.0	8.7	8.3	8.7	8.3	8.3	8.0
BOLSTER (C14-OS3)	95.3	83.7	6.3	5.0	8.3	9.0	8.3	7.3	8.0	8.0	8.3	7.6
CASCADE	81.3	87.3	7.0	6.0	8.0	8.3	8.3	7.7	7.0	7.7	8.0	7.6
DLFPS-FRC/3057	84.3	87.3	5.3	5.0	8.7	8.7	8.7	8.3	7.0	8.0	8.3	7.6
CASTLE (RAD-FC32)	85.7	84.7	5.0	5.3	7.3	8.3	8.7	8.3	8.3	8.0	8.0	7.5
BAR VV-VP3-CT	84.7	90.0	6.0	5.3	8.0	8.3	8.3	7.7	7.7	7.7	8.0	7.4
RADAR	74.0	86.7	5.7	6.0	7.7	8.3	7.7	7.3	8.0	8.3	8.0	7.4
COMPASS II (PPG-FRC 113)	71.0	81.0	6.0	5.7	7.7	8.7	8.3	8.0	6.7	6.7	7.7	7.3
MOMENTUM (PPG-FRC 114)	66.7	74.0	5.3	5.0	8.3	8.3	7.3	6.7	6.3	7.3	7.7	6.9
RAD-FC44	80.3	76.3	6.0	5.0	7.0	7.7	7.0	7.0	8.0	7.3	6.3	6.8
DLFPS-FRC/3060	73.3	72.3	5.3	5.3	7.7	7.7	7.7	6.7	6.3	6.7	7.0	6.7
SANDRINE (BAR 6FR 126)	76.0	74.0	4.7	5.0	7.0	7.3	7.3	7.0	7.3	6.7	7.3	6.6
LSD VALUE	41.9	26.4	1.6	1.7	1.5	1.8	1.8	2.0	3.5	2.2	2.7	1.4
C.V. (%)	19.5	12.7	13.1	12.0	8.8	9.1	9.9	11.3	17.9	12.1	13.1	8.2

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

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

TABLE 10C.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                                GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                              2018 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	89.3	89.3	5.3	5.0	8.0	7.3	7.7	7.7	8.0	7.7	8.3	7.2
DLFPS-FRR/3068	77.0	78.3	5.7	6.0	7.7	7.0	7.3	7.7	6.7	7.0	7.3	6.9
RAD-FR33R	81.3	81.3	5.3	5.0	6.7	8.3	7.7	6.7	6.0	7.0	7.3	6.7
PST-4BEN	71.3	70.0	5.0	5.0	7.7	7.0	7.0	6.7	6.3	6.7	6.3	6.4
PST-4DR4	73.3	73.7	5.3	4.7	6.7	7.0	7.0	6.3	6.7	6.3	6.3	6.3
RAD-FR47	88.3	70.3	5.7	5.7	6.7	6.7	6.3	6.3	6.7	6.3	6.3	6.3
KENT	71.0	72.7	5.0	4.7	7.0	7.0	6.7	6.7	6.0	6.3	6.3	6.2
7C34	57.3	60.7	4.7	4.3	6.7	7.3	7.0	6.3	6.0	6.3	6.7	6.1
BOREAL	55.3	73.3	4.3	4.7	6.3	6.7	6.3	6.0	6.3	6.3	6.0	5.9
NAVIGATOR II	57.3	62.0	5.0	5.0	7.0	6.7	6.7	5.7	5.0	5.7	5.7	5.8
PST-4ED4	74.0	77.7	4.7	4.3	6.0	6.7	6.0	5.3	6.3	6.0	7.0	5.8
PST-4RUE	70.7	69.7	4.3	4.3	6.0	6.3	6.0	5.3	6.0	5.7	6.3	5.6
MARVEL	32.3	41.0	4.0	4.0	5.7	5.7	5.3	5.0	3.3	5.0	5.3	4.8
CARDINAL II (PPG-FRR 111)	21.0	23.0	4.0	3.7	5.3	5.0	4.3	4.0	3.7	4.3	4.0	4.3
DLFPS-FRR/3069	27.0	31.7	3.3	3.0	4.7	5.0	4.7	4.3	4.0	4.7	4.7	4.3
LSD VALUE	23.2	29.3	1.1	1.0	1.7	1.4	1.4	1.6	1.2	1.6	1.8	0.9
C.V. (%)	22.5	25.3	12.8	13.0	13.6	11.7	12.7	15.1	13.4	14.0	15.8	9.8

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

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

TABLE 1OD.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                              GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                          2018 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
GLADIATOR (TH456)	81.7	87.7	5.7	6.0	7.3	8.0	7.7	7.7	7.0	7.7	7.0	7.1
DLFPS-FL/3060	73.7	84.7	6.0	5.7	6.7	7.7	7.7	7.0	6.3	7.0	7.7	6.9
MINIMUS	64.0	67.0	5.3	5.0	8.0	7.7	7.0	6.0	6.7	7.3	7.3	6.7
SWORD	78.3	90.0	6.0	4.7	7.3	7.0	7.0	6.7	6.3	7.7	8.0	6.7
JETTY (PPG-FL 106)	58.7	66.0	5.7	6.0	8.3	8.0	6.7	5.7	5.7	6.3	7.0	6.6
BEACON	65.7	77.3	5.7	5.3	6.7	7.7	7.0	6.7	5.7	7.0	6.7	6.5
PST-4BND	74.0	68.7	5.3	4.7	7.7	8.0	7.3	6.0	5.0	7.0	7.0	6.4
MNHD-14	64.3	69.3	5.3	5.0	7.0	6.3	6.3	6.0	6.3	6.7	6.7	6.2
QUATRO	62.3	65.3	5.7	5.0	5.7	5.7	6.0	5.7	5.3	6.3	6.0	5.7
RESOLUTE (7H7)	29.3	46.7	4.7	4.3	6.0	5.7	4.7	4.7	3.7	5.3	5.3	4.9
DLFPS-FL/3066	25.3	26.0	4.3	4.3	5.7	5.3	4.7	4.3	4.7	4.3	4.7	4.7
LSD VALUE	31.6	25.9	1.2	1.2	2.3	2.0	1.9	1.8	2.5	1.7	2.3	1.2
C.V. (%)	27.4	21.5	10.5	12.3	15.4	14.8	15.3	15.5	20.3	13.8	16.8	11.0

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

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

TABLE 1OE.   MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                              GROWN UNDER SHADE AT CARBONDALE, IL 1/
                                          2018 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
SEAMIST (PPG-FRT 101)	77.0	83.0	5.7	5.7	8.3	8.3	8.0	7.7	7.3	8.0	8.0	7.4
BARPEARL (BAR FRT 5002)	60.0	69.7	5.3	5.3	6.7	7.3	6.7	6.3	6.7	6.3	6.3	6.3
BEUDIN	62.7	75.3	4.3	4.7	6.0	6.3	6.0	5.7	5.0	6.0	6.0	5.6
SEABREEZE GT	56.0	63.0	4.7	4.3	6.0	6.3	6.0	5.3	5.0	6.0	5.3	5.4
LSD VALUE	18.2	27.4	0.7	0.9	2.4	2.1	1.3	2.0	1.4	1.3	0.6	0.9
C.V. (%)	13.2	16.8	6.7	8.8	16.4	13.5	9.7	14.8	11.5	9.8	5.2	7.5

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 11A.        GENETIC COLOR RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                              2018 DATA

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

        NAME                        IL1     MI1     MN2     MO1     NC1     NJ2     QE1     MEAN

        CASTLE (RAD-FC32)           7.0     7.7     8.3     6.0     8.0     7.3     7.0     7.3
        RAD-FC44                    5.3     7.0     8.0     7.0     7.0     8.0     6.7     7.0
        RAD-FR33R                   6.3     7.0     7.0     6.0     8.0     7.7     6.7     7.0
        RAD-FR47                    6.7     7.0     7.0     5.0     7.7     7.7     6.3     6.8
        RESOLUTE (7H7)              6.7     7.7     7.7     5.0     8.0     6.0     6.0     6.7
        DLFPS-FL/3066               6.7     7.3     7.7     5.0     8.0     6.3     5.7     6.7
        NAVIGATOR II                6.7     7.0     5.3     6.0     7.3     7.7     6.3     6.6
        PST-4RUE                    6.3     7.0     7.7     5.0     7.3     6.7     6.0     6.6
        SWORD                       6.7     7.0     7.0     5.0     8.0     7.0     5.0     6.5
        CARDINAL II (PPG-FRR 111)   7.0     7.0     7.0     5.3     7.3     6.0     6.0     6.5
        KENT                        6.0     7.0     6.0     5.0     7.0     8.3     6.0     6.5
        PST-4ED4                    6.3     7.0     7.3     5.0     7.7     5.7     6.3     6.5
        PST-4DR4                    6.0     7.0     5.7     5.0     8.0     6.7     6.7     6.4
        DLF-FRR 6162                7.0     7.0     6.0     5.0     8.0     6.0     5.7     6.4
        DLF-FRC 3338                7.0     7.0     5.7     5.0     8.0     5.3     6.3     6.3
        7C34                        6.7     7.0     5.0     5.0     7.7     6.3     6.7     6.3
        DLFPS-FRC/3060              5.7     7.0     6.0     5.0     8.0     6.3     6.3     6.3
        PST-4BEN                    6.3     7.0     6.7     5.0     7.3     6.0     6.0     6.3
        RADAR                       6.0     7.0     6.0     6.3     7.7     5.0     6.3     6.3
        MOMENTUM (PPG-FRC 114)      5.7     7.0     6.3     5.3     8.0     6.0     6.0     6.3
        DLFPS-FL/3060               6.3     7.7     7.3     5.0     7.0     5.3     5.3     6.3
        DLFPS-FRR/3068              5.3     7.0     5.7     5.0     7.7     6.7     6.7     6.3
        MARVEL                      6.3     7.0     5.0     5.0     8.0     6.0     6.0     6.2
        BOREAL                      6.3     6.7     5.0     5.0     7.0     7.3     5.7     6.1
        MNHD-14                     6.0     7.0     7.7     5.0      .      5.7     5.3     6.1
        DLFPS-FRR/3069              5.7     7.0     5.0     5.0     7.0     6.7     6.3     6.1
        JETTY (PPG-FL 106)          5.7     7.3     7.7     4.0      .      6.0     5.7     6.1
        COMPASS II (PPG-FRC 113)    5.3     7.0     5.3     5.3     8.0     5.3     5.3     6.0
        QUATRO                      5.3     7.3     7.7     5.0     7.0     5.3     4.3     6.0
        BOLSTER (C14-OS3)           5.7     7.0     5.7     5.0     7.7     5.0     5.7     6.0
        BEACON                      7.0     7.0     5.3     5.0     7.5     4.0     5.7     5.9
        MINIMUS                     5.7     7.0     6.7     5.0     8.0     4.0     5.0     5.9
        DLFPS-FRC/3057              6.3     7.0     5.7     5.0     7.3     4.0     5.7     5.9
        CASCADE                     6.0     6.7     5.3     5.0     7.0     5.0     5.3     5.8
        BAR VV-VP3-CT               6.0     7.0     4.7     5.0     7.3     4.7     5.7     5.8
        PST-4BND                    6.0     7.3     6.0     5.0      .      4.7     5.3     5.7
        GLADIATOR (TH456)           6.7     7.0     5.7     5.0     7.0     3.0     5.7     5.7
        SANDRINE (BAR 6FR 126)      5.3     7.0     4.3     5.0     7.0     4.3     4.7     5.4
        SEAMIST (PPG-FRT 101)       6.0     6.7     3.0     4.0     7.7     4.7     5.3     5.3
        SEABREEZE GT                5.0     6.3     3.3     5.0      .      6.3     5.3     5.2
        BEUDIN                      6.0     6.0     2.3     5.0     7.0     4.7     4.7     5.1
        BARPEARL (BAR FRT 5002)     6.3     6.0     2.7     5.0      .      5.0     4.7     4.9

        LSD VALUE                   1.3     0.5     1.4     1.2     0.9     1.4     0.8     0.4
        C.V. (%)                   13.0     4.2    14.4    14.8     6.0    15.2     8.9    11.4
```

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

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

```
              TABLE 11B.        GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                            2018 DATA

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

           NAME                        IL1    MI1    MN2    MO1    NC1    NJ2    QE1    MEAN

           CASTLE (RAD-FC32)           7.0    7.7    8.3    6.0    8.0    7.3    7.0    7.3
           RAD-FC44                    5.3    7.0    8.0    7.0    7.0    8.0    6.7    7.0
           DLF-FRC 3338                7.0    7.0    5.7    5.0    8.0    5.3    6.3    6.3
           DLFPS-FRC/3060              5.7    7.0    6.0    5.0    8.0    6.3    6.3    6.3
           RADAR                       6.0    7.0    6.0    6.3    7.7    5.0    6.3    6.3
           MOMENTUM (PPG-FRC 114)      5.7    7.0    6.3    5.3    8.0    6.0    6.0    6.3
           COMPASS II (PPG-FRC 113)    5.3    7.0    5.3    5.3    8.0    5.3    6.0    6.0
           BOLSTER (C14-OS3)           5.7    7.0    5.7    5.0    7.7    5.0    5.7    6.0
           DLFPS-FRC/3057              6.3    7.0    5.7    5.0    7.3    4.0    5.7    5.9
           CASCADE                     6.0    6.7    5.3    5.0    7.0    5.0    5.3    5.8
           BAR VV-VP3-CT               6.0    7.0    4.7    5.0    7.3    4.7    5.7    5.8
           SANDRINE (BAR 6FR 126)      5.3    7.0    4.3    5.0    7.0    4.3    4.7    5.4

           LSD VALUE                   1.6    0.4    1.5    1.6    0.7    1.2    0.8    0.5
           C.V. (%)                   17.1    3.4   15.4   18.5    4.8   13.8    8.4   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 11C.    GENETIC COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                            2018 DATA

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

           NAME                        IL1    MI1    MN2    MO1    NC1    NJ2    QE1    MEAN

           RAD-FR33R                   6.3    7.0    7.0    6.0    8.0    7.7    6.7    7.0
           RAD-FR47                    6.7    7.0    7.0    5.0    7.7    7.7    6.3    6.8
           NAVIGATOR II                6.7    7.0    5.3    6.0    7.3    7.7    6.3    6.6
           PST-4RUE                    6.3    7.0    7.7    5.0    7.3    6.7    6.0    6.6
           CARDINAL II (PPG-FRR 111)   7.0    7.0    7.0    5.3    7.3    6.0    6.0    6.5
           KENT                        6.0    7.0    6.0    5.0    7.0    8.3    6.0    6.5
           PST-4ED4                    6.3    7.0    7.3    5.0    7.7    5.7    6.3    6.5
           PST-4DR4                    6.0    7.0    5.7    5.0    8.0    6.7    6.7    6.4
           DLF-FRR 6162                7.0    7.0    6.0    5.0    8.0    6.0    5.7    6.4
           7C34                        6.7    7.0    5.0    5.0    7.7    6.3    6.7    6.3
           PST-4BEN                    6.3    7.0    6.7    5.0    7.3    6.0    6.0    6.3
           DLFPS-FRR/3068              5.3    7.0    5.7    5.0    7.7    6.7    6.7    6.3
           MARVEL                      6.3    7.0    5.0    5.0    8.0    6.0    6.0    6.2
           BOREAL                      6.3    6.7    5.0    5.0    7.0    7.3    5.7    6.1
           DLFPS-FRR/3069              5.7    7.0    5.0    5.0    7.0    6.7    6.3    6.1

           LSD VALUE                   1.1    0.2    1.1    1.0    1.0    1.4    0.8    0.4
           C.V. (%)                   11.3    2.1   11.2   12.6    6.7   13.1    7.6    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 11D.  GENETIC COLOR RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                          2018 DATA

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

          NAME                  IL1     MI1     MN2     MO1     NC1     NJ2     QE1    MEAN

          RESOLUTE (7H7)        6.7     7.7     7.7     5.0     8.0     6.0     6.0     6.7
          DLFPS-FL/3066         6.7     7.3     7.7     5.0     8.0     6.3     5.7     6.7
          SWORD                 6.7     7.0     7.0     5.0     8.0     7.0     5.0     6.5
          DLFPS-FL/3060         6.3     7.7     7.3     5.0     7.0     5.3     5.3     6.3
          MNHD-14               6.0     7.0     7.7     5.0      .      5.7     5.3     6.1
          JETTY (PPG-FL 106)    5.7     7.3     7.7     4.0      .      6.0     5.7     6.1
          QUATRO                5.3     7.3     7.7     5.0     7.0     5.3     4.3     6.0
          BEACON                7.0     7.0     5.3     5.0     7.5     4.0     5.7     5.9
          MINIMUS               5.7     7.0     6.7     5.0     8.0     4.0     5.0     5.9
          PST-4BND              6.0     7.3     6.0     5.0      .      4.7     5.3     5.7
          GLADIATOR (TH456)     6.7     7.0     5.7     5.0     7.0     3.0     5.7     5.7

          LSD VALUE             1.0     0.7     1.6     0.8     1.9     1.3     0.9     0.4
          C.V. (%)             10.4     5.9    14.4    10.6     9.4    14.9    10.8    11.1
```

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 11E. GENETIC COLOR RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                          2018 DATA

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

          NAME                  IL1     MI1     MN2     MO1     NC1     NJ2     QE1    MEAN

          SEAMIST (PPG-FRT 101)  6.0    6.7     3.0     4.0     7.7     4.7     5.3     5.3
          SEABREEZE GT           5.0    6.3     3.3     5.0      .      6.3     5.3     5.2
          BEUDIN                 6.0    6.0     2.3     5.0     7.0     4.7     4.7     5.1
          BARPEARL (BAR FRT 5002) 6.3   6.0     2.7     5.0      .      5.0     4.7     4.9

          LSD VALUE             1.2     0.7     1.4     1.4     0.8     2.3     0.9     0.5
          C.V. (%)             13.1     6.5    30.6    18.2     6.4    27.4    11.5    16.6
```

 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 12A.                    SPRING GREENUP RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                              2018 DATA

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


NAME                        CT1     IL1     MA1     MI1     MI2     MN1     MN2     ND1     QE1     MEAN

SANDRINE (BAR 6FR 126)      6.7     7.3     5.0     5.3     6.0     5.0     4.7     5.0     5.7     5.6
CASCADE                     6.3     6.3     4.7     6.3     5.3     5.3     5.3     5.0     4.7     5.5
QUATRO                      6.0     7.0     6.0     5.7     7.3     3.7     2.7     5.0     6.0     5.5
DLFPS-FRC/3060              6.3     7.0     4.7     5.3     5.3     5.0     5.0     5.0     4.3     5.3
RAD-FR47                    6.3     7.3     3.3     6.0     5.0     4.7     5.3     5.0     4.3     5.3
RADAR                       7.3     6.7     4.7     4.7     5.3     4.7     5.0     4.3     4.7     5.3
BAR VV-VP3-CT               6.7     6.7     4.3     5.0     5.7     4.0     4.3     5.0     5.3     5.2
COMPASS II (PPG-FRC 113)    6.7     6.0     5.0     5.3     5.7     4.0     4.3     5.0     5.0     5.2
BOLSTER (C14-OS3)           6.7     7.0     4.3     5.0     5.7     5.3     3.7     5.0     4.3     5.2
SEAMIST (PPG-FRT 101)       6.3     6.7     4.7     5.7     6.0     5.0     3.3     5.0     4.0     5.2
DLFPS-FL/3066               5.7     6.7     5.3     4.3     5.3     3.7     2.0     6.0     7.3     5.1
JETTY (PPG-FL 106)          6.0     6.7     4.7     5.0     5.7     2.7     2.7     6.0     7.0     5.1
DLFPS-FRC/3057              6.3     7.3     4.3     4.7     5.3     4.3     3.3     5.0     5.3     5.1
7C34                        5.7     7.0     3.0     5.3     5.7     4.3     5.3     5.0     4.7     5.1
DLFPS-FL/3060               6.0     6.3     5.0     4.7     5.3     4.0     2.0     6.0     6.7     5.1
RESOLUTE (7H7)              6.0     7.0     5.3     4.7     5.3     3.3     1.7     6.0     6.7     5.1
MARVEL                      5.7     7.3     3.3     5.3     5.3     4.7     4.7     5.0     4.3     5.1
MINIMUS                     5.3     6.3     5.3     4.7     5.0     3.3     2.7     6.0     7.0     5.1
NAVIGATOR II                5.7     6.7     3.7     5.3     4.7     4.3     5.3     6.0     3.7     5.0
SEABREEZE GT                5.3     7.3     4.0     5.3     5.3     4.0     5.3     4.0     4.3     5.0
CARDINAL II (PPG-FRR 111)   5.7     6.3     3.7     5.7     4.7     5.0     4.3     5.0     4.3     5.0
PST-4RUE                    5.7     6.3     3.0     5.7     5.0     5.0     4.3     5.0     4.7     5.0
SWORD                       5.3     6.3     4.7     5.0     5.7     3.0     2.7     5.0     7.0     5.0
BEUDIN                      4.7     7.0     3.7     6.0     6.0     3.7     4.0     5.0     4.3     4.9
PST-4DR4                    4.7     7.0     3.3     5.7     5.7     4.0     4.7     5.0     4.3     4.9
MOMENTUM (PPG-FRC 114)      6.3     7.0     4.3     4.0     5.7     4.3     4.0     5.0     3.3     4.9
RAD-FR33R                   7.3     7.0     3.0     5.0     5.0     3.0     5.0     5.0     3.7     4.9
BEACON                      4.7     7.3     5.0     4.7     6.0     2.7     2.3     5.0     6.0     4.9
BOREAL                      5.0     6.7     3.0     6.0     4.7     3.3     5.3     5.0     4.3     4.8
MNHD-14                     5.0     6.7     4.3     4.7     5.0     2.7     2.3     6.0     6.3     4.8
PST-4BEN                    5.7     7.0     2.7     5.0     5.0     4.0     4.3     5.0     4.3     4.8
DLF-FRR 6162                6.0     5.7     3.3     5.7     5.3     3.3     4.7     5.0     4.0     4.8
KENT                        5.0     6.7     3.7     5.7     4.7     4.0     4.7     5.0     3.7     4.8
DLFPS-FRR/3068             4.7     7.0     2.7     5.3     5.0     4.0     5.0     5.0     3.7     4.7
CASTLE (RAD-FC32)           7.7     6.7     4.3     3.0     5.3     3.3     3.0     5.0     4.0     4.7
DLF-FRC 3338                6.3     7.0     4.0     3.7     5.3     3.0     3.3     5.0     4.7     4.7
GLADIATOR (TH456)           5.3     7.0     4.7     4.3     4.7     2.3     2.3     5.0     6.7     4.7
RAD-FC44                    7.3     7.0     3.3     4.0     4.7     2.3     4.0     5.0     4.7     4.7
DLFPS-FRR/3069             5.0     6.7     2.3     5.3     4.3     4.0     4.3     5.7     4.3     4.7
PST-4BND                    4.7     6.7     3.7     4.7     5.3     3.0     2.3     5.0     6.3     4.6
PST-4ED4                    6.3     6.3     2.3     4.7     4.3     4.7     4.7     4.0     3.7     4.6
BARPEARL (BAR FRT 5002)     4.7     7.7     3.3     5.0     4.7     3.7     3.0     5.0     3.3     4.5


LSD VALUE                   1.3     1.0     0.9     1.1     1.0     1.3     1.2     0.2     1.4     0.4
C.V. (%)                   13.9     9.1    14.0    13.5    11.4    21.0    19.6     2.5    17.4    13.7


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 12B.   SPRING GREENUP RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                              2018 DATA

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

NAME	CT1	IL1	MA1	MI1	MI2	MN1	MN2	ND1	QE1	MEAN
SANDRINE (BAR 6FR 126)	6.7	7.3	5.0	5.3	6.0	5.0	4.7	5.0	5.7	5.6
CASCADE	6.3	6.3	4.7	6.3	5.3	5.3	5.3	5.0	4.7	5.5
DLFPS-FRC/3060	6.3	7.0	4.7	5.3	5.3	5.0	5.0	5.0	4.3	5.3
RADAR	7.3	6.7	4.7	4.7	5.3	4.7	5.0	4.3	4.7	5.3
BAR VV-VP3-CT	6.7	6.7	4.3	5.0	5.7	4.0	4.3	5.0	5.3	5.2
COMPASS II (PPG-FRC 113)	6.7	6.0	5.0	5.3	5.7	4.0	4.3	5.0	5.0	5.2
BOLSTER (C14-OS3)	6.7	7.0	4.3	5.0	5.7	5.3	3.7	5.0	4.3	5.2
DLFPS-FRC/3057	6.3	7.3	4.3	4.7	5.3	4.3	3.3	5.0	5.3	5.1
MOMENTUM (PPG-FRC 114)	6.3	7.0	4.3	4.0	5.7	4.3	4.0	5.0	3.3	4.9
CASTLE (RAD-FC32)	7.7	6.7	4.3	3.0	5.3	3.3	3.0	5.0	4.0	4.7
DLF-FRC 3338	6.3	7.0	4.0	3.7	5.3	3.0	3.3	5.0	4.7	4.7
RAD-FC44	7.3	7.0	3.3	4.0	4.7	2.3	4.0	5.0	4.7	4.7
LSD VALUE	1.1	1.0	0.9	0.7	1.0	1.4	1.4	0.3	1.4	0.4
C.V. (%)	10.5	9.4	13.1	9.4	11.5	20.9	21.2	3.4	18.9	13.3

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 12C.   SPRING GREENUP RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                              2018 DATA

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

NAME	CT1	IL1	MA1	MI1	MI2	MN1	MN2	ND1	QE1	MEAN
RAD-FR47	6.3	7.3	3.3	6.0	5.0	4.7	5.3	5.0	4.3	5.3
7C34	5.7	7.0	3.0	5.3	5.7	4.3	5.3	5.0	4.7	5.1
MARVEL	5.7	7.3	3.3	5.3	5.3	4.7	4.7	5.0	4.3	5.1
NAVIGATOR II	5.7	6.7	3.7	5.3	4.7	4.3	5.3	6.0	3.7	5.0
CARDINAL II (PPG-FRR 111)	5.7	6.3	3.7	5.7	4.7	5.0	4.3	5.0	4.3	5.0
PST-4RUE	5.7	6.3	3.0	5.7	5.0	5.0	4.3	5.0	4.7	5.0
PST-4DR4	4.7	7.0	3.3	5.7	5.7	4.0	4.7	5.0	4.3	4.9
RAD-FR33R	7.3	7.0	3.0	5.0	5.0	3.0	5.0	5.0	3.7	4.9
BOREAL	5.0	6.7	3.0	6.0	4.7	3.3	5.3	5.0	4.3	4.8
PST-4BEN	5.7	7.0	2.7	5.0	5.0	4.0	4.3	5.0	4.3	4.8
DLF-FRR 6162	6.0	5.7	3.3	5.7	5.3	3.3	4.7	5.0	4.0	4.8
KENT	5.0	6.7	3.7	5.7	4.7	4.0	4.7	5.0	3.7	4.8
DLFPS-FRR/3068	4.7	7.0	2.7	5.3	5.0	4.0	5.0	5.0	3.7	4.7
DLFPS-FRR/3069	5.0	6.7	2.3	5.3	4.3	4.0	4.3	5.7	4.3	4.7
PST-4ED4	6.3	6.3	2.3	4.7	4.3	4.7	4.7	4.0	3.7	4.6
LSD VALUE	1.5	1.0	1.0	1.3	1.0	1.2	1.3	0.2	1.5	0.4
C.V. (%)	16.3	8.9	19.9	14.7	13.1	17.9	17.3	3.0	22.2	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 12D.          SPRING GREENUP RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                 2018 DATA


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


NAME                     CT1    IL1    MA1    MI1    MI2    MN1    MN2    ND1    QE1    MEAN


QUATRO                   6.0    7.0    6.0    5.7    7.3    3.7    2.7    5      6.0    5.5
DLFPS-FL/3066            5.7    6.7    5.3    4.3    5.3    3.7    2.0    6      7.3    5.1
JETTY (PPG-FL 106)       6.0    6.7    4.7    5.0    5.7    2.7    2.7    6      7.0    5.1
DLFPS-FL/3060            6.0    6.3    5.0    4.7    5.3    4.0    2.0    6      6.7    5.1
RESOLUTE (7H7)           6.0    7.0    5.3    4.7    5.3    3.3    1.7    6      6.7    5.1
MINIMUS                  5.3    6.3    5.3    4.7    5.0    3.3    2.7    6      7.0    5.1
SWORD                    5.3    6.3    4.7    5.0    5.7    3.0    2.7    5      7.0    5.0
BEACON                   4.7    7.3    5.0    4.7    6.0    2.7    2.3    5      6.0    4.9
MNHD-14                  5.0    6.7    4.3    4.7    5.0    2.7    2.3    6      6.3    4.8
GLADIATOR (TH456)        5.3    7.0    4.7    4.3    4.7    2.3    2.3    5      6.7    4.7
PST-4BND                 4.7    6.7    3.7    4.7    5.3    3.0    2.3    5      6.3    4.6


LSD VALUE                1.4    0.9    0.8    1.3    0.9    1.3    0.8    0      1.0    0.3
C.V. (%)                 15.6   8.6    10.0   16.8   10.5   26.7   22.4   0      9.1    12.7


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

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




TABLE 12E.          SPRING GREENUP RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                 2018 DATA


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


NAME                     CT1    IL1    MA1    MI1    MI2    MN1    MN2    ND1    QE1    MEAN


SEAMIST (PPG-FRT 101)    6.3    6.7    4.7    5.7    6.0    5.0    3.3    5      4.0    5.2
SEABREEZE GT             5.3    7.3    4.0    5.3    5.3    4.0    5.3    4      4.3    5.0
BEUDIN                   4.7    7.0    3.7    6.0    6.0    3.7    4.0    5      4.3    4.9
BARPEARL (BAR FRT 5002)  4.7    7.7    3.3    5.0    4.7    3.7    3.0    5      3.3    4.5


LSD VALUE                0.9    1.1    0.8    0.7    0.7    1.3    1.0    0      1.8    0.3
C.V. (%)                 11.0   9.9    12.8   7.4    7.4    20.0   16.5   0      28.0   13.2


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 13A.    LEAF TEXTURE RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                              2018 DATA

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


                    NAME                        NC1

                    QUATRO                      9.0
                    CASCADE                     8.3
                    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
                    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
                    DLFPS-FRC/3060              8.0
                    DLFPS-FRR/3068              8.0
                    DLFPS-FRR/3069              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
                    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
                    DLFPS-FRC/3057              7.7
                    PST-4RUE                    7.7
                    SWORD                       7.0

                    LSD VALUE                   0.5
                    C.V. (%)                    3.0
```

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

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

```
       TABLE 13B.        LEAF TEXTURE RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                    2018 DATA

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


                      NAME                          NC1

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

                      LSD VALUE                     0.6
                      C.V. (%)                      3.9
```

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 13C.        LEAF TEXTURE RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                    2018 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                      7.7

                      LSD VALUE                     0.4
                      C.V. (%)                      2.2
```

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 13D.   LEAF TEXTURE RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                    2018 DATA

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

                         NAME   NC1

                         QUATRO   9
                         BEACON   8
                         DLFPS-FL/3060   8
                         DLFPS-FL/3066   8
                         GLADIATOR (TH456)   8
                         MINIMUS   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 13E.   LEAF TEXTURE RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                    2018 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.

```
        TABLE 14A.            SPRING DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                          2018 DATA

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


              NAME                          NC1    ND1    MEAN

              DLF-FRR 6162                  8.0     6      7.0
              MINIMUS                       8.0     6      7.0
              NAVIGATOR II                  7.7     6      6.8
              KENT                          7.5     6      6.8
              BAR VV-VP3-CT                 7.3     6      6.7
              PST-4RUE                      7.3     6      6.7
              DLF-FRC 3338                  8.0     5      6.5
              GLADIATOR (TH456)             7.0     6      6.5
              MARVEL                        8.0     5      6.5
              RAD-FC44                      8.0     5      6.5
              RAD-FR47                      7.0     6      6.5
              RESOLUTE (7H7)                7.0     6      6.5
              SANDRINE (BAR 6FR 126)        7.0     6      6.5
              7C34                          7.7     5      6.3
              DLFPS-FRR/3068                7.7     5      6.3
              DLFPS-FRR/3069                7.7     5      6.3
              PST-4BEN                      7.7     5      6.3
              RADAR                         7.7     5      6.3
              SEAMIST (PPG-FRT 101)         7.7     5      6.3
              BEUDIN                        6.5     6      6.3
              DLFPS-FRC/3060                7.5     5      6.3
              PST-4DR4                      7.5     5      6.3
              RAD-FR33R                     7.5     5      6.3
              BOLSTER (C14-OS3)             7.3     5      6.2
              CARDINAL II (PPG-FRR 111)     7.3     5      6.2
              COMPASS II (PPG-FRC 113)      7.3     5      6.2
              MOMENTUM (PPG-FRC 114)        7.3     5      6.2
              BARPEARL (BAR FRT 5002)        .      6      6.0
              BOREAL                        6.0     6      6.0
              CASTLE (RAD-FC32)             7.0     5      6.0
              DLFPS-FL/3066                  .      6      6.0
              JETTY (PPG-FL 106)             .      6      6.0
              MNHD-14                        .      6      6.0
              PST-4ED4                      7.3     4      5.7
              BEACON                        6.0     5      5.5
              DLFPS-FL/3060                 5.0     6      5.5
              QUATRO                        5.0     6      5.5
              DLFPS-FRC/3057                6.5     4      5.3
              CASCADE                       6.3     4      5.2
              PST-4BND                       .      5      5.0
              SWORD                          .      5      5.0
              SEABREEZE GT                   .      4      4.0


              LSD VALUE                     1.4     0      0.5
              C.V. (%)                      9.4     0      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 14B.              SPRING DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                        2018 DATA


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


                       NAME                       NC1    ND1    MEAN

                       BAR VV-VP3-CT              7.3     6     6.7
                       DLF-FRC 3338              8.0     5     6.5
                       RAD-FC44                  8.0     5     6.5
                       SANDRINE (BAR 6FR 126)    7.0     6     6.5
                       RADAR                     7.7     5     6.3
                       DLFPS-FRC/3060            7.5     5     6.3
                       BOLSTER (C14-OS3)         7.3     5     6.2
                       COMPASS II (PPG-FRC 113)  7.3     5     6.2
                       MOMENTUM (PPG-FRC 114)    7.3     5     6.2
                       CASTLE (RAD-FC32)         7.0     5     6.0
                       DLFPS-FRC/3057            6.5     4     5.3
                       CASCADE                   6.3     4     5.2

                       LSD VALUE                 1.4     0     0.6
                       C.V. (%)                 10.0     0     7.6


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

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


        TABLE 14C.              SPRING DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                        2018 DATA


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


                       NAME                       NC1    ND1    MEAN

                       DLF-FRR 6162              8.0     6     7.0
                       NAVIGATOR II              7.7     6     6.8
                       KENT                      7.5     6     6.8
                       PST-4RUE                  7.3     6     6.7
                       MARVEL                    8.0     5     6.5
                       RAD-FR47                  7.0     6     6.5
                       7C34                      7.7     5     6.3
                       DLFPS-FRR/3068            7.7     5     6.3
                       DLFPS-FRR/3069            7.7     5     6.3
                       PST-4BEN                  7.7     5     6.3
                       PST-4DR4                  7.5     5     6.3
                       RAD-FR33R                 7.5     5     6.3
                       CARDINAL II (PPG-FRR 111) 7.3     5     6.2
                       BOREAL                    6.0     6     6.0
                       PST-4ED4                  7.3     4     5.7

                       LSD VALUE                 1.3     0     0.5
                       C.V. (%)                  8.9     0     6.6


   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 14D.   SPRING DENSITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                 2018 DATA

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

              NAME   NC1   ND1   MEAN

              MINIMUS   8   6   7.0
              GLADIATOR (TH456)   7   6   6.5
              RESOLUTE (7H7)   7   6   6.5
              DLFPS-FL/3066   .   6   6.0
              JETTY (PPG-FL 106)   .   6   6.0
              MNHD-14   .   6   6.0
              BEACON   6   5   5.5
              DLFPS-FL/3060   5   6   5.5
              QUATRO   5   6   5.5
              PST-4BND   .   5   5.0
              SWORD   .   5   5.0

              LSD VALUE   0   0   0.0
              C.V. (%)   0   0   0.0

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.   SPRING DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                 2018 DATA

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

              NAME   NC1   ND1   MEAN

              SEAMIST (PPG-FRT 101)   7.7   5   6.3
              BEUDIN   6.5   6   6.3
              BARPEARL (BAR FRT 5002)   .   6   6.0
              SEABREEZE GT   .   4   4.0

              LSD VALUE   1.1   0   0.5
              C.V. (%)   8.8   0   5.6

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.

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

NAME	IN1	NC1	ND1	MEAN
GLADIATOR (TH456)	7.5	5.0	7	6.5
BARPEARL (BAR FRT 5002)	5.7	.	7	6.3
DLFPS-FL/3066	5.7	.	7	6.3
PST-4RUE	5.0	7.0	7	6.3
JETTY (PPG-FL 106)	6.3	.	6	6.2
DLF-FRR 6162	5.3	7.0	6	6.1
QUATRO	7.3	4.0	7	6.1
CASTLE (RAD-FC32)	5.7	5.5	7	6.1
BEACON	7.0	5.0	6	6.0
COMPASS II (PPG-FRC 113)	6.7	6.3	5	6.0
MNHD-14	5.0	.	7	6.0
PST-4BEN	5.3	6.7	6	6.0
BOLSTER (C14-OS3)	6.7	5.0	6	5.9
MOMENTUM (PPG-FRC 114)	6.0	5.7	6	5.9
RAD-FR33R	5.7	6.0	6	5.9
CARDINAL II (PPG-FRR 111)	5.3	6.3	6	5.9
PST-4BND	5.7	.	6	5.8
RADAR	7.0	5.3	5	5.8
RAD-FR47	6.0	4.0	7	5.7
SEAMIST (PPG-FRT 101)	7.0	5.0	5	5.7
DLFPS-FRC/3057	6.3	5.5	5	5.6
DLF-FRC 3338	6.0	5.7	5	5.6
PST-4DR4	5.0	5.5	6	5.5
SEABREEZE GT	6.0	.	5	5.5
SWORD	5.0	.	6	5.5
NAVIGATOR II	5.7	3.7	7	5.4
7C34	5.0	5.3	6	5.4
MINIMUS	5.3	5.0	6	5.4
BEUDIN	5.7	4.5	6	5.4
DLFPS-FRR/3068	5.5	4.7	6	5.4
DLFPS-FRR/3069	5.7	4.3	6	5.3
RAD-FC44	6.0	4.0	6	5.3
RESOLUTE (7H7)	5.0	4.0	7	5.3
SANDRINE (BAR 6FR 126)	5.0	4.0	7	5.3
DLFPS-FRC/3060	6.3	3.5	6	5.3
BAR VV-VP3-CT	5.7	4.0	6	5.2
KENT	5.7	4.0	6	5.2
DLFPS-FL/3060	6.0	3.0	6	5.0
CASCADE	5.0	4.7	5	4.9
BOREAL	5.0	3.5	6	4.8
PST-4ED4	5.0	4.3	5	4.8
MARVEL	4.0	4.0	6	4.7
LSD VALUE	1.5	2.3	0	0.8
C.V. (%)	15.9	22.8	0	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.

TABLE 15B.   SUMMER DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                        2018 DATA

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

NAME	IN1	NC1	ND1	MEAN
CASTLE (RAD-FC32)	5.7	5.5	7	6.1
COMPASS II (PPG-FRC 113)	6.7	6.3	5	6.0
BOLSTER (C14-OS3)	6.7	5.0	6	5.9
MOMENTUM (PPG-FRC 114)	6.0	5.7	6	5.9
RADAR	7.0	5.3	5	5.8
DLFPS-FRC/3057	6.3	5.5	5	5.6
DLF-FRC 3338	6.0	5.7	5	5.6
RAD-FC44	6.0	4.0	6	5.3
SANDRINE (BAR 6FR 126)	5.0	4.0	7	5.3
DLFPS-FRC/3060	6.3	3.5	6	5.3
BAR VV-VP3-CT	5.7	4.0	6	5.2
CASCADE	5.0	4.7	5	4.9
LSD VALUE	1.6	2.0	0	0.8
C.V. (%)	16.6	21.3	0	14.6

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 15C.   SUMMER DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                        2018 DATA

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

NAME	IN1	NC1	ND1	MEAN
PST-4RUE	5.0	7.0	7	6.3
DLF-FRR 6162	5.3	7.0	6	6.1
PST-4BEN	5.3	6.7	6	6.0
RAD-FR33R	5.7	6.0	6	5.9
CARDINAL II (PPG-FRR 111)	5.3	6.3	6	5.9
RAD-FR47	6.0	4.0	7	5.7
PST-4DR4	5.0	5.5	6	5.5
NAVIGATOR II	5.7	3.7	7	5.4
7C34	5.0	5.3	6	5.4
DLFPS-FRR/3068	5.5	4.7	6	5.4
DLFPS-FRR/3069	5.7	4.3	6	5.3
KENT	5.7	4.0	6	5.2
BOREAL	5.0	3.5	6	4.8
PST-4ED4	5.0	4.3	5	4.8
MARVEL	4.0	4.0	6	4.7
LSD VALUE	1.2	2.2	0	0.7
C.V. (%)	13.2	21.9	0	12.7

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

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

```
    TABLE 15D.            SUMMER DENSITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                  2018 DATA

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

              NAME                    IN1    NC1    ND1    MEAN

              GLADIATOR (TH456)       7.5    5.0     7     6.5
              DLFPS-FL/3066           5.7     .      7     6.3
              JETTY (PPG-FL 106)      6.3     .      6     6.2
              QUATRO                  7.3    4.0     7     6.1
              BEACON                  7.0    5.0     6     6.0
              MNHD-14                 5.0     .      7     6.0
              PST-4BND                5.7     .      6     5.8
              SWORD                   5.0     .      6     5.5
              MINIMUS                 5.3    5.0     6     5.4
              RESOLUTE (7H7)          5.0    4.0     7     5.3
              DLFPS-FL/3060           6.0    3.0     6     5.0

              LSD VALUE               2.0    2.5     0     0.9
              C.V. (%)               19.5   23.1     0    13.8
```

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

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

```
    TABLE 15E.        SUMMER DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                  2018 DATA

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

              NAME                        IN1    NC1    ND1    MEAN

              BARPEARL (BAR FRT 5002)     5.7     .      7     6.3
              SEAMIST (PPG-FRT 101)       7.0    5.0     5     5.7
              SEABREEZE GT                6.0     .      5     5.5
              BEUDIN                      5.7    4.5     6     5.4

              LSD VALUE                   0.7    2.6     0     0.7
              C.V. (%)                    7.2   31.0     0    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.

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

NAME	ND1
GLADIATOR (TH456)	8.0
MNHD-14	8.0
PST-4RUE	8.0
RESOLUTE (7H7)	8.0
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
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	6.0
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
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	0.1
C.V. (%)	1.3

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.   FALL DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                              2018 DATA

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

                    NAME   ND1

                    BAR VV-VP3-CT   7
                    BOLSTER (C14-OS3)   7
                    DLFPS-FRC/3060   7
                    CASCADE   6
                    CASTLE (RAD-FC32)   6
                    COMPASS II (PPG-FRC 113)   6
                    DLF-FRC 3338   6
                    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 16C.   FALL DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                              2018 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.

TABLE 16D.   FALL DENSITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                              2018 DATA

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

                        NAME   ND1

                        GLADIATOR (TH456)   8.0
                        MNHD-14   8.0
                        RESOLUTE (7H7)   8.0
                        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   6.0
                        SWORD   6.0

                        LSD VALUE   0.3
                        C.V. (%)   2.4

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.   FALL DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                              2018 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.

```
        TABLE 17A.   PERCENT LIVING GROUND COVER (SPRING) RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                        2018 DATA

                        PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS   2/

            NAME                          CT1     MN1     ND1     OR1     MEAN

            BOLSTER (C14-OS3)             98.7    99.0    95.0    95.3    97.0
            RADAR                         99.0    99.0    93.3    95.7    96.8
            CASTLE (RAD-FC32)             99.0    98.7    95.0    93.7    96.6
            DLFPS-FRC/3057                97.3    98.0    95.0    95.7    96.5
            SEAMIST (PPG-FRT 101)         99.0    98.0    93.3    95.7    96.5
            COMPASS II (PPG-FRC 113)      97.7    98.7    91.7    97.7    96.4
            BEUDIN                        94.0    99.0    95.0    96.7    96.2
            MOMENTUM (PPG-FRC 114)        97.7    98.7    91.7    96.3    96.1
            QUATRO                        95.3    98.0    95.0    95.7    96.0
            DLF-FRC 3338                  96.0    98.7    95.0    93.7    95.8
            BAR VV-VP3-CT                 96.3    98.3    91.7    95.0    95.3
            BARPEARL (BAR FRT 5002)       96.0    98.3    91.7    94.0    95.0
            7C34                          96.3    96.0    95.0    92.3    94.9
            SANDRINE (BAR 6FR 126)        91.3    97.3    93.3    97.0    94.8
            DLFPS-FL/3060                 90.7    97.3    99.0    91.3    94.6
            DLFPS-FRC/3060                96.0    98.3    95.0    88.0    94.3
            RAD-FC44                      97.7    97.3    90.0    90.3    93.8
            MARVEL                        91.7    93.7    99.0    88.7    93.3
            CASCADE                       92.7    94.7    91.7    92.7    92.9
            PST-4DR4                      90.0    95.3    95.0    91.3    92.9
            SEABREEZE GT                  89.3    96.3    91.7    93.7    92.8
            RAD-FR33R                     90.0    94.7    95.0    90.7    92.6
            DLF-FRR 6162                  91.7    96.0    93.3    89.3    92.6
            DLFPS-FL/3066                 83.3    94.0    99.0    94.0    92.6
            MNHD-14                       89.7    96.3    95.0    88.7    92.4
            DLFPS-FRR/3069                88.3    94.0    99.0    88.3    92.4
            JETTY (PPG-FL 106)            86.3    98.7    95.0    88.7    92.2
            MINIMUS                       79.0    97.7    99.0    92.3    92.0
            GLADIATOR (TH456)             78.0    98.0    95.0    96.7    91.9
            PST-4BEN                      86.7    94.3    93.3    93.3    91.9
            CARDINAL II (PPG-FRR 111)     85.0    96.0    91.7    94.0    91.7
            PST-4ED4                      86.0    92.0    95.0    93.0    91.5
            PST-4RUE                      88.3    94.7    91.7    91.0    91.4
            DLFPS-FRR/3068                89.3    94.7    95.0    86.3    91.3
            RESOLUTE (7H7)                76.3    99.0    95.0    94.7    91.3
            BEACON                        79.3    98.0    91.7    94.7    90.9
            NAVIGATOR II                  87.7    95.0    95.0    84.0    90.4
            RAD-FR47                      85.7    92.3    93.3    90.3    90.4
            SWORD                         79.3    89.3    95.0    94.7    89.6
            KENT                          85.3    93.7    93.3    85.3    89.4
            BOREAL                        85.0    95.3    95.0    80.0    88.8
            PST-4BND                      69.3    95.7    95.0    89.7    87.4

            LSD VALUE                     16.8     4.3     3.1     7.7     4.8
            C.V. (%)                      11.6     2.8     2.1     5.2     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 17B.   PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CHEWINGS FESCUE CULTIVARS  1/
                                        2018 DATA


                     PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS   2/


                NAME                       CT1    MN1    ND1    OR1    MEAN

                BOLSTER (C14-OS3)          98.7   99.0   95.0   95.3   97.0
                RADAR                      99.0   99.0   93.3   95.7   96.8
                CASTLE (RAD-FC32)          99.0   98.7   95.0   93.7   96.6
                DLFPS-FRC/3057             97.3   98.0   95.0   95.7   96.5
                COMPASS II (PPG-FRC 113)   97.7   98.7   91.7   97.7   96.4
                MOMENTUM (PPG-FRC 114)     97.7   98.7   91.7   96.3   96.1
                DLF-FRC 3338               96.0   98.7   95.0   93.7   95.8
                BAR VV-VP3-CT              96.3   98.3   91.7   95.0   95.3
                SANDRINE (BAR 6FR 126)     91.3   97.3   93.3   97.0   94.8
                DLFPS-FRC/3060             96.0   98.3   95.0   88.0   94.3
                RAD-FC44                   97.7   97.3   90.0   90.3   93.8
                CASCADE                    92.7   94.7   91.7   92.7   92.9

                LSD VALUE                   5.9    2.0    4.0    6.3    2.4
                C.V. (%)                    3.8    1.2    2.7    4.1    3.2

  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 17C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  1/
                                        2018 DATA


                     PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS   2/


                NAME                       CT1    MN1    ND1    OR1    MEAN

                7C34                       96.3   96.0   95.0   92.3   94.9
                MARVEL                     91.7   93.7   99.0   88.7   93.3
                PST-4DR4                   90.0   95.3   95.0   91.3   92.9
                RAD-FR33R                  90.0   94.7   95.0   90.7   92.6
                DLF-FRR 6162               91.7   96.0   93.3   89.3   92.6
                DLFPS-FRR/3069             88.3   94.0   99.0   88.3   92.4
                PST-4BEN                   86.7   94.3   93.3   93.3   91.9
                CARDINAL II (PPG-FRR 111)  85.0   96.0   91.7   94.0   91.7
                PST-4ED4                   86.0   92.0   95.0   93.0   91.5
                PST-4RUE                   88.3   94.7   91.7   91.0   91.4
                DLFPS-FRR/3068             89.3   94.7   95.0   86.3   91.3
                NAVIGATOR II               87.7   95.0   95.0   84.0   90.4
                RAD-FR47                   85.7   92.3   93.3   90.3   90.4
                KENT                       85.3   93.7   93.3   85.3   89.4
                BOREAL                     85.0   95.3   95.0   80.0   88.8

                LSD VALUE                   7.3    4.5    2.9    9.0    3.2
                C.V. (%)                    5.1    3.0    1.9    6.3    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.
```

```
        TABLE 17D.    PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                          2018 DATA

                       PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS   2/

                NAME                    CT1     MN1     ND1     OR1     MEAN

                QUATRO                  95.3    98.0    95.0    95.7    96.0
                DLFPS-FL/3060           90.7    97.3    99.0    91.3    94.6
                DLFPS-FL/3066           83.3    94.0    99.0    94.0    92.6
                MNHD-14                 89.7    96.3    95.0    88.7    92.4
                JETTY (PPG-FL 106)      86.3    98.7    95.0    88.7    92.2
                MINIMUS                 79.0    97.7    99.0    92.3    92.0
                GLADIATOR (TH456)       78.0    98.0    95.0    96.7    91.9
                RESOLUTE (7H7)          76.3    99.0    95.0    94.7    91.3
                BEACON                  79.3    98.0    91.7    94.7    90.9
                SWORD                   79.3    89.3    95.0    94.7    89.6
                PST-4BND                69.3    95.7    95.0    89.7    87.4

                LSD VALUE               30.9     6.0     1.4     8.1     8.1
                C.V. (%)                23.3     3.8     0.9     5.4    11.0
```

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

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

```
        TABLE 17E. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                          2018 DATA

                       PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS   2/

                NAME                    CT1     MN1     ND1     OR1     MEAN

                SEAMIST (PPG-FRT 101)   99.0    98.0    93.3    95.7    96.5
                BEUDIN                  94.0    99.0    95.0    96.7    96.2
                BARPEARL (BAR FRT 5002) 96.0    98.3    91.7    94.0    95.0
                SEABREEZE GT            89.3    96.3    91.7    93.7    92.8
                C.V. (%)                 3.3     2.0     2.7     2.8     2.7
                LSD VALUE                5.0     3.2     4.0     4.3     2.1
```

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.

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS   2/

NAME	CT1	MI2	MN1	MN2	NC1	ND1	OR1	QE1	MEAN
DLFPS-FL/3066	76.7	95.0	93.3	82.7	.	99.0	89.7	93.3	90.0
JETTY (PPG-FL 106)	85.0	96.3	88.7	80.7	.	95.0	84.0	95.0	89.2
MNHD-14	85.7	95.0	78.3	76.0	.	99.0	83.7	95.0	87.5
MOMENTUM (PPG-FRC 114)	86.7	99.0	87.0	72.7	78.3	95.0	87.7	85.0	86.4
DLF-FRC 3338	81.7	97.7	86.3	67.0	78.3	95.0	90.0	93.3	86.2
RADAR	89.7	99.0	92.0	50.3	80.0	95.0	87.7	91.7	85.7
GLADIATOR (TH456)	73.3	96.0	89.0	86.7	67.5	95.0	89.3	88.3	85.6
BOLSTER (C14-OS3)	85.0	99.0	90.7	67.7	70.0	96.3	87.3	88.3	85.5
DLFPS-FRC/3057	85.0	97.7	92.7	57.3	80.0	95.0	82.3	93.3	85.4
RAD-FC44	73.3	97.7	88.3	64.3	85.0	95.0	88.0	91.7	85.4
COMPASS II (PPG-FRC 113)	76.0	97.7	89.0	70.0	76.7	95.0	84.0	93.3	85.2
SWORD	76.7	93.0	77.0	67.7	.	95.0	86.0	91.7	83.9
BEACON	68.3	93.0	91.7	80.7	65.0	99.0	85.7	86.7	83.8
RESOLUTE (7H7)	75.0	96.3	93.7	83.0	40.0	95.0	88.0	93.3	83.0
SEAMIST (PPG-FRT 101)	75.0	93.3	92.3	64.7	73.3	95.0	84.7	85.0	82.9
DLF-FRR 6162	86.7	93.3	78.0	59.7	85.0	99.0	86.7	70.0	82.3
MINIMUS	66.7	90.0	78.0	77.0	75.0	95.0	82.7	91.7	82.0
DLFPS-FRC/3060	88.3	93.3	87.7	65.3	52.5	99.0	86.3	78.3	81.4
QUATRO	83.3	97.7	86.0	59.3	50.0	99.0	88.7	86.7	81.3
DLFPS-FL/3060	74.3	91.7	92.7	81.7	35.0	95.0	85.0	95.0	81.3
PST-4RUE	75.0	93.3	70.7	66.7	90.0	99.0	82.0	73.3	81.3
7C34	94.0	76.7	76.7	60.3	70.0	99.0	86.7	80.0	80.4
BAR VV-VP3-CT	83.3	96.3	77.0	56.7	58.3	95.0	84.3	91.7	80.3
CASTLE (RAD-FC32)	73.3	90.0	81.3	64.0	65.0	95.0	86.0	85.0	80.0
PST-4BEN	80.0	95.0	67.7	56.3	88.3	99.0	81.3	70.0	79.7
CASCADE	81.7	91.7	78.7	53.3	65.0	95.0	86.3	80.0	79.0
SEABREEZE GT	68.3	86.7	77.7	59.7	.	95.0	90.0	75.0	78.9
PST-4DR4	76.7	86.7	71.0	57.3	70.0	97.7	86.3	78.3	78.0
CARDINAL II (PPG-FRR 111)	78.3	94.7	77.0	36.7	88.0	95.0	85.0	68.3	77.9
PST-4BND	27.7	95.0	76.0	76.3	.	99.0	85.7	81.7	77.3
BARPEARL (BAR FRT 5002)	65.0	76.7	84.3	55.7	.	99.0	91.7	61.7	76.3
RAD-FR33R	86.7	63.3	81.0	48.3	77.5	99.0	78.0	75.0	76.1
DLFPS-FRR/3068	78.3	70.0	76.0	53.3	65.0	95.0	89.3	73.3	75.0
BEUDIN	73.3	73.0	78.3	56.7	47.5	99.0	91.0	78.3	74.6
PST-4ED4	75.0	95.0	66.3	46.7	70.0	95.0	82.0	66.7	74.6
SANDRINE (BAR 6FR 126)	56.7	83.3	87.0	67.0	35.0	95.0	90.0	76.7	73.8
DLFPS-FRR/3069	76.7	63.3	72.3	55.3	56.7	95.0	83.3	76.7	72.4
MARVEL	87.7	40.0	74.7	56.3	65.0	95.0	77.7	75.0	71.4
RAD-FR47	60.0	60.0	61.0	45.3	77.5	99.0	85.3	76.7	70.6
KENT	70.0	60.0	73.0	60.7	35.0	99.0	83.7	65.0	68.3
BOREAL	65.0	78.3	76.3	38.7	37.5	95.0	84.3	68.3	67.9
NAVIGATOR II	65.0	60.0	72.7	47.0	40.0	99.0	83.3	63.3	66.3
LSD VALUE	21.0	12.1	13.9	16.4	32.7	0.8	10.9	17.9	5.7
C.V. (%)	17.2	8.7	10.7	16.3	24.3	0.5	7.9	13.6	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 18B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2018 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS   2/

NAME	CT1	MI2	MN1	MN2	NC1	ND1	OR1	QE1	MEAN
MOMENTUM (PPG-FRC 114)	86.7	99.0	87.0	72.7	78.3	95.0	87.7	85.0	86.4
DLF-FRC 3338	81.7	97.7	86.3	67.0	78.3	95.0	90.0	93.3	86.2
RADAR	89.7	99.0	92.0	50.3	80.0	95.0	87.7	91.7	85.7
BOLSTER (C14-OS3)	85.0	99.0	90.7	67.7	70.0	96.3	87.3	88.3	85.5
DLFPS-FRC/3057	85.0	97.7	92.7	57.3	80.0	95.0	82.3	93.3	85.4
RAD-FC44	73.3	97.7	88.3	64.3	85.0	95.0	88.0	91.7	85.4
COMPASS II (PPG-FRC 113)	76.0	97.7	89.0	70.0	76.7	95.0	84.0	93.3	85.2
DLFPS-FRC/3060	88.3	93.3	87.7	65.3	52.5	99.0	86.3	78.3	81.4
BAR VV-VP3-CT	83.3	96.3	77.0	56.7	58.3	95.0	84.3	91.7	80.3
CASTLE (RAD-FC32)	73.3	90.0	81.3	64.0	65.0	95.0	86.0	85.0	80.0
CASCADE	81.7	91.7	78.7	53.3	65.0	95.0	86.3	80.0	79.0
SANDRINE (BAR 6FR 126)	56.7	83.3	87.0	67.0	35.0	95.0	90.0	76.7	73.8
LSD VALUE	13.7	5.7	10.3	18.9	35.0	1.1	11.7	16.4	5.3
C.V. (%)	10.6	3.7	7.4	18.7	26.3	0.7	8.4	11.7	11.1

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 18C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2018 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS   2/

NAME	CT1	MI2	MN1	MN2	NC1	ND1	OR1	QE1	MEAN
DLF-FRR 6162	86.7	93.3	78.0	59.7	85.0	99.0	86.7	70.0	82.3
PST-4RUE	75.0	93.3	70.7	66.7	90.0	99.0	82.0	73.3	81.3
7C34	94.0	76.7	76.7	60.3	70.0	99.0	86.7	80.0	80.4
PST-4BEN	80.0	95.0	67.7	56.3	88.3	99.0	81.3	70.0	79.7
PST-4DR4	76.7	86.7	71.0	57.3	70.0	97.7	86.3	78.3	78.0
CARDINAL II (PPG-FRR 111)	78.3	94.7	77.0	36.7	88.0	95.0	85.0	68.3	77.9
RAD-FR33R	86.7	63.3	81.0	48.3	77.5	99.0	78.0	75.0	76.1
DLFPS-FRR/3068	78.3	70.0	76.0	53.3	65.0	95.0	89.3	73.3	75.0
PST-4ED4	75.0	95.0	66.3	46.7	70.0	95.0	82.0	66.7	74.6
DLFPS-FRR/3069	76.7	63.3	72.3	55.3	56.7	95.0	83.3	76.7	72.4
MARVEL	87.7	40.0	74.7	56.3	65.0	95.0	77.7	75.0	71.4
RAD-FR47	60.0	60.0	61.0	45.3	77.5	99.0	85.3	76.7	70.6
KENT	70.0	60.0	73.0	60.7	35.0	99.0	83.7	65.0	68.3
BOREAL	65.0	78.3	76.3	38.7	37.5	95.0	84.3	68.3	67.9
NAVIGATOR II	65.0	60.0	72.7	47.0	40.0	99.0	83.3	63.3	66.3
LSD VALUE	19.9	16.2	15.7	16.2	29.6	1.0	11.7	19.8	5.9
C.V. (%)	16.1	13.4	13.4	19.2	22.4	0.6	8.7	17.1	13.7

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 18D.   PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
2018 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS   2/

NAME	CT1	MI2	MN1	MN2	NC1	ND1	OR1	QE1	MEAN
DLFPS-FL/3066	76.7	95.0	93.3	82.7	.	99	89.7	93.3	90.0
JETTY (PPG-FL 106)	85.0	96.3	88.7	80.7	.	95	84.0	95.0	89.2
MNHD-14	85.7	95.0	78.3	76.0	.	99	83.7	95.0	87.5
GLADIATOR (TH456)	73.3	96.0	89.0	86.7	67.5	95	89.3	88.3	85.6
SWORD	76.7	93.0	77.0	67.7	.	95	86.0	91.7	83.9
BEACON	68.3	93.0	91.7	80.7	65.0	99	85.7	86.7	83.8
RESOLUTE (7H7)	75.0	96.3	93.7	83.0	40.0	95	88.0	93.3	83.0
MINIMUS	66.7	90.0	78.0	77.0	75.0	95	82.7	91.7	82.0
QUATRO	83.3	97.7	86.0	59.3	50.0	99	88.7	86.7	81.3
DLFPS-FL/3060	74.3	91.7	92.7	81.7	35.0	95	85.0	95.0	81.3
PST-4BND	27.7	95.0	76.0	76.3	.	99	85.7	81.7	77.3
LSD VALUE	29.1	5.0	15.6	12.8	19.1	0	9.4	7.1	5.3
C.V. (%)	25.1	3.3	11.3	10.3	13.5	0	6.8	4.9	10.5

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

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

TABLE 18E.   PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2018 DATA

NAME	CT1	MI2	MN1	MN2	NC1	ND1	OR1	QE1	MEAN
SEAMIST (PPG-FRT 101)	75.0	93.3	92.3	64.7	73.3	95	84.7	85.0	82.9
SEABREEZE GT	68.3	86.7	77.7	59.7	.	95	90.0	75.0	78.9
BARPEARL (BAR FRT 5002)	65.0	76.7	84.3	55.7	.	99	91.7	61.7	76.3
BEUDIN	73.3	73.0	78.3	56.7	47.5	99	91.0	78.3	74.6
LSD VALUE	16.4	19.4	11.2	17.9	21.5	0	9.1	30.8	6.4
C.V. (%)	14.5	14.6	8.3	18.8	19.8	0	6.3	25.5	13.9

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 19A.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                              2018 DATA

                    PERCENT LIVING GROUND COVER IN FALL: LOCATIONS   2/

NAME	CT1	MI1	MI2	MN1	ND1	NJ2	OR1	MEAN
BOLSTER (C14-OS3)	91.0	99.0	99.0	89.7	99.0	99.0	97.0	96.2
RADAR	94.7	96.3	99.0	76.0	95.0	96.0	95.3	93.2
MOMENTUM (PPG-FRC 114)	86.7	96.3	99.0	79.7	95.0	99.0	95.7	93.0
DLF-FRC 3338	83.3	96.3	99.0	78.7	99.0	93.0	98.3	92.5
COMPASS II (PPG-FRC 113)	86.7	99.0	99.0	83.7	85.0	96.0	97.0	92.3
DLFPS-FRC/3060	93.3	95.0	99.0	69.3	99.0	92.7	97.3	92.2
JETTY (PPG-FL 106)	70.0	99.0	99.0	87.3	99.0	96.0	95.0	92.2
SEAMIST (PPG-FRT 101)	86.7	94.7	99.0	81.3	95.0	89.7	96.3	91.8
MNHD-14	78.3	99.0	99.0	82.0	99.0	92.7	91.7	91.7
DLFPS-FL/3060	66.7	97.7	99.0	91.0	99.0	89.7	96.3	91.3
DLFPS-FRC/3057	85.0	96.3	99.0	75.0	95.0	93.0	96.0	91.3
BAR VV-VP3-CT	81.7	96.3	99.0	76.7	99.0	86.7	93.7	90.4
RESOLUTE (7H7)	53.3	99.0	99.0	88.7	99.0	96.0	96.7	90.2
7C34	86.7	97.7	93.0	75.7	99.0	83.3	95.3	90.1
RAD-FC44	75.0	95.0	99.0	77.3	99.0	86.7	97.0	89.9
QUATRO	68.3	94.7	99.0	83.7	99.0	93.0	89.7	89.6
GLADIATOR (TH456)	58.3	93.3	99.0	89.0	99.0	90.0	97.0	89.4
CASTLE (RAD-FC32)	80.0	94.7	96.0	82.7	95.0	80.0	97.0	89.3
CARDINAL II (PPG-FRR 111)	76.7	96.0	99.0	71.0	95.0	93.0	94.0	89.2
DLFPS-FL/3066	60.0	96.3	99.0	77.3	99.0	93.0	98.0	89.0
BEACON	45.0	99.0	99.0	89.3	96.3	92.7	96.7	88.3
SWORD	56.7	97.7	99.0	77.3	95.0	96.0	96.0	88.2
CASCADE	78.3	97.7	93.0	79.3	95.0	76.7	93.0	87.6
DLF-FRR 6162	83.3	96.3	96.0	67.3	99.0	76.7	92.7	87.3
PST-4BEN	71.7	96.3	99.0	75.0	99.0	76.7	93.7	87.3
PST-4RUE	68.3	97.7	96.0	69.0	99.0	76.7	94.3	85.9
MINIMUS	46.7	99.0	93.0	67.7	99.0	96.0	95.3	85.2
RAD-FR33R	85.0	88.3	90.0	74.3	99.0	66.7	92.3	85.1
MARVEL	83.3	94.7	80.0	71.7	99.0	70.0	92.3	84.4
PST-4DR4	66.7	94.7	93.0	71.0	99.0	70.0	96.7	84.4
SEABREEZE GT	46.7	96.3	90.0	76.3	95.0	86.3	97.7	84.0
DLFPS-FRR/3068	71.7	91.7	90.0	73.3	95.0	63.3	97.3	83.2
PST-4ED4	61.7	97.7	99.0	72.0	95.0	63.3	91.3	82.9
PST-4BND	23.3	96.3	99.0	79.0	99.0	86.7	94.3	82.5
SANDRINE (BAR 6FR 126)	38.3	86.7	96.0	84.0	99.0	66.7	98.0	81.2
BARPEARL (BAR FRT 5002)	28.3	90.0	86.7	85.0	99.0	80.0	96.0	80.7
DLFPS-FRR/3069	63.3	88.3	80.0	74.0	99.0	66.7	92.0	80.5
RAD-FR47	73.3	85.0	80.0	66.7	99.0	60.0	94.0	79.7
NAVIGATOR II	53.3	90.0	86.7	71.3	99.0	56.7	92.3	78.5
KENT	51.7	91.7	80.0	69.0	99.0	66.7	91.0	78.4
BEUDIN	38.3	81.7	93.0	85.0	99.0	43.3	97.3	76.8
BOREAL	46.7	86.7	80.0	75.3	99.0	60.0	89.7	76.8
LSD VALUE	24.8	6.7	6.1	12.4	0.6	16.6	7.3	4.9
C.V. (%)	22.7	4.4	4.0	9.9	0.4	12.6	4.8	9.3

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

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

74

TABLE 19B.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                    2018 DATA

                    PERCENT LIVING GROUND COVER IN FALL: LOCATIONS   2/

NAME	CT1	MI1	MI2	MN1	ND1	NJ2	OR1	MEAN
BOLSTER (C14-OS3)	91.0	99.0	99.0	89.7	99	99.0	97.0	96.2
RADAR	94.7	96.3	99.0	76.0	95	96.0	95.3	93.2
MOMENTUM (PPG-FRC 114)	86.7	96.3	99.0	79.7	95	99.0	95.7	93.0
DLF-FRC 3338	83.3	96.3	99.0	78.7	99	93.0	98.3	92.5
COMPASS II (PPG-FRC 113)	86.7	99.0	99.0	83.7	85	96.0	97.0	92.3
DLFPS-FRC/3060	93.3	95.0	99.0	69.3	99	92.7	97.3	92.2
DLFPS-FRC/3057	85.0	96.3	99.0	75.0	95	93.0	96.0	91.3
BAR VV-VP3-CT	81.7	96.3	99.0	76.7	99	86.7	93.7	90.4
RAD-FC44	75.0	95.0	99.0	77.3	99	86.7	97.0	89.9
CASTLE (RAD-FC32)	80.0	94.7	96.0	82.7	95	80.0	97.0	89.3
CASCADE	78.3	97.7	93.0	79.3	95	76.7	93.0	87.6
SANDRINE (BAR 6FR 126)	38.3	86.7	96.0	84.0	99	66.7	98.0	81.2
LSD VALUE	15.7	4.3	4.2	10.8	0	13.6	5.6	3.5
C.V. (%)	12.0	2.8	2.7	8.5	0	9.5	3.6	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 19C.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                    2018 DATA

                    PERCENT LIVING GROUND COVER IN FALL: LOCATIONS   2/

NAME	CT1	MI1	MI2	MN1	ND1	NJ2	OR1	MEAN
7C34	86.7	97.7	93.0	75.7	99	83.3	95.3	90.1
CARDINAL II (PPG-FRR 111)	76.7	96.0	99.0	71.0	95	93.0	94.0	89.2
DLF-FRR 6162	83.3	96.3	96.0	67.3	99	76.7	92.7	87.3
PST-4BEN	71.7	96.3	99.0	75.0	99	76.7	93.7	87.3
PST-4RUE	68.3	97.7	96.0	69.0	99	76.7	94.3	85.9
RAD-FR33R	85.0	88.3	90.0	74.3	99	66.7	92.3	85.1
MARVEL	83.3	94.7	80.0	71.7	99	70.0	92.3	84.4
PST-4DR4	66.7	94.7	93.0	71.0	99	70.0	96.7	84.4
DLFPS-FRR/3068	71.7	91.7	90.0	73.3	95	63.3	97.3	83.2
PST-4ED4	61.7	97.7	99.0	72.0	95	63.3	91.3	82.9
DLFPS-FRR/3069	63.3	88.3	80.0	74.0	99	66.7	92.0	80.5
RAD-FR47	73.3	85.0	80.0	66.7	99	60.0	94.0	79.7
NAVIGATOR II	53.3	90.0	86.7	71.3	99	56.7	92.3	78.5
KENT	51.7	91.7	80.0	69.0	99	66.7	91.0	78.4
BOREAL	46.7	86.7	80.0	75.3	99	60.0	89.7	76.8
LSD VALUE	21.7	8.4	8.7	13.2	0	19.7	8.6	5.1
C.V. (%)	19.4	5.6	6.1	11.5	0	17.5	5.8	10.0

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

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

TABLE 19D.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
2018 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS   2/

NAME	CT1	MI1	MI2	MN1	ND1	NJ2	OR1	MEAN
JETTY (PPG-FL 106)	70.0	99.0	99.0	87.3	99.0	96.0	95.0	92.2
MNHD-14	78.3	99.0	99.0	82.0	99.0	92.7	91.7	91.7
DLFPS-FL/3060	66.7	97.7	99.0	91.0	99.0	89.7	96.3	91.3
RESOLUTE (7H7)	53.3	99.0	99.0	88.7	99.0	96.0	96.7	90.2
QUATRO	68.3	94.7	99.0	83.7	99.0	93.0	89.7	89.6
GLADIATOR (TH456)	58.3	93.3	99.0	89.0	99.0	90.0	97.0	89.4
DLFPS-FL/3066	60.0	96.3	99.0	77.3	99.0	93.0	98.0	89.0
BEACON	45.0	99.0	99.0	89.3	96.3	92.7	96.7	88.3
SWORD	56.7	97.7	99.0	77.3	95.0	96.0	96.0	88.2
MINIMUS	46.7	99.0	93.0	67.7	99.0	96.0	95.3	85.2
PST-4BND	23.3	96.3	99.0	79.0	99.0	86.7	94.3	82.5
LSD VALUE	34.3	3.4	2.5	14.3	1.1	11.1	7.9	5.7
C.V. (%)	37.4	2.2	1.6	10.7	0.7	7.4	5.2	10.5

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

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

TABLE 19E.   PERCENT LIVING GROUND COVER (FALL) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2018 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS   2/

NAME	CT1	MI1	MI2	MN1	ND1	NJ2	OR1	MEAN
SEAMIST (PPG-FRT 101)	86.7	94.7	99.0	81.3	95	89.7	96.3	91.8
SEABREEZE GT	46.7	96.3	90.0	76.3	95	86.3	97.7	84.0
BARPEARL (BAR FRT 5002)	28.3	90.0	86.7	85.0	99	80.0	96.0	80.7
BEUDIN	38.3	81.7	93.0	85.0	99	43.3	97.3	76.8
LSD VALUE	26.5	10.9	6.2	7.2	0	23.4	4.1	5.5
C.V. (%)	32.9	7.5	4.2	5.4	0	19.4	2.6	10.8

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

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

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

NAME	IN1
BOLSTER (C14-OS3)	8.3
DLFPS-FRC/3057	8.3
RAD-FC44	8.3
SANDRINE (BAR 6FR 126)	8.3
SWORD	8.3
7C34	8.0
BAR VV-VP3-CT	8.0
BARPEARL (BAR FRT 5002)	8.0
CASTLE (RAD-FC32)	8.0
COMPASS II (PPG-FRC 113)	8.0
GLADIATOR (TH456)	8.0
JETTY (PPG-FL 106)	8.0
MINIMUS	8.0
MNHD-14	8.0
PST-4BND	8.0
DLF-FRC 3338	7.7
DLFPS-FL/3066	7.7
MARVEL	7.7
MOMENTUM (PPG-FRC 114)	7.7
RESOLUTE (7H7)	7.7
SEAMIST (PPG-FRT 101)	7.7
BEACON	7.5
DLFPS-FRR/3068	7.5
SEABREEZE GT	7.5
CARDINAL II (PPG-FRR 111)	7.3
CASCADE	7.3
DLF-FRR 6162	7.3
NAVIGATOR II	7.3
PST-4DR4	7.3
PST-4ED4	7.3
RADAR	7.3
BEUDIN	7.0
DLFPS-FRC/3060	7.0
RAD-FR33R	7.0
RAD-FR47	7.0
DLFPS-FL/3060	6.7
PST-4RUE	6.7
QUATRO	6.7
BOREAL	6.3
DLFPS-FRR/3069	5.7
KENT	5.7
PST-4BEN	5.7
LSD VALUE	1.8
C.V. (%)	14.6

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.

77

TABLE 20B.   MICRODOCHIUM PATCH RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                              2018 DATA

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

                               NAME   IN1

                               BOLSTER (C14-OS3)   8.3
                               DLFPS-FRC/3057   8.3
                               RAD-FC44   8.3
                               SANDRINE (BAR 6FR 126) 8.3
                               BAR VV-VP3-CT   8.0
                               CASTLE (RAD-FC32)   8.0
                               COMPASS II (PPG-FRC 113) 8.0
                               DLF-FRC 3338   7.7
                               MOMENTUM (PPG-FRC 114) 7.7
                               CASCADE   7.3
                               RADAR   7.3
                               DLFPS-FRC/3060   7.0

                               LSD VALUE   1.6
                               C.V. (%)   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 20C.   MICRODOCHIUM PATCH RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                              2018 DATA

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

                               NAME   IN1

                               7C34   8.0
                               MARVEL   7.7
                               DLFPS-FRR/3068   7.5
                               CARDINAL II (PPG-FRR 111) 7.3
                               DLF-FRR 6162   7.3
                               NAVIGATOR II   7.3
                               PST-4DR4   7.3
                               PST-4ED4   7.3
                               RAD-FR33R   7.0
                               RAD-FR47   7.0
                               PST-4RUE   6.7
                               BOREAL   6.3
                               DLFPS-FRR/3069   5.7
                               KENT   5.7
                               PST-4BEN   5.7

                               LSD VALUE   2.3
                               C.V. (%)   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.

78

TABLE 20D.   MICRODOCHIUM PATCH RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                            2018 DATA

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

                                NAME   IN1

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

                                LSD VALUE   1.3
                                C.V. (%)   9.6

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

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

 TABLE 20E.   MICRODOCHIUM PATCH RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                            2018 DATA

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

                                NAME   IN1

                                BARPEARL (BAR FRT 5002) 8.0
                                SEAMIST (PPG-FRT 101)   7.7
                                SEABREEZE GT   7.5
                                BEUDIN   7.0

                                LSD VALUE   0.8
                                C.V. (%)   5.8

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

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

DOLLAR SPOT RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                    2018 DATA

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

NAME	IN1	MI2	NJ2	MEAN
GLADIATOR (TH456)	6.5	9.0	7.3	7.6
RADAR	7.3	9.0	6.3	7.6
BOLSTER (C14-OS3)	7.7	9.0	5.7	7.4
MOMENTUM (PPG-FRC 114)	7.3	9.0	5.7	7.3
COMPASS II (PPG-FRC 113)	6.7	9.0	5.7	7.1
MNHD-14	7.0	7.3	6.7	7.0
DLF-FRC 3338	6.7	9.0	5.0	6.9
DLFPS-FRC/3057	7.0	9.0	4.7	6.9
DLFPS-FL/3066	6.3	7.0	6.7	6.7
RESOLUTE (7H7)	5.0	8.0	7.0	6.7
JETTY (PPG-FL 106)	5.7	8.0	6.0	6.6
RAD-FC44	7.3	9.0	3.3	6.6
BEACON	7.5	6.7	5.3	6.5
CASTLE (RAD-FC32)	6.0	9.0	4.3	6.4
DLFPS-FL/3060	7.0	6.3	6.0	6.4
DLFPS-FRC/3060	7.7	7.0	4.3	6.3
BAR VV-VP3-CT	7.3	7.7	3.7	6.2
QUATRO	4.7	9.0	5.0	6.2
PST-4BND	6.0	7.3	5.3	6.2
SEAMIST (PPG-FRT 101)	7.7	7.0	3.7	6.1
CARDINAL II (PPG-FRR 111)	5.3	8.3	4.3	6.0
CASCADE	6.3	9.0	2.7	6.0
SANDRINE (BAR 6FR 126)	6.7	9.0	2.3	6.0
SWORD	4.0	7.0	6.3	5.8
MINIMUS	5.0	5.7	6.3	5.7
DLF-FRR 6162	4.3	8.3	4.0	5.6
PST-4BEN	4.0	8.7	3.7	5.4
PST-4RUE	5.3	8.0	3.0	5.4
PST-4ED4	4.7	8.3	3.0	5.3
BARPEARL (BAR FRT 5002)	4.7	6.7	2.3	4.6
PST-4DR4	4.0	7.0	2.7	4.6
SEABREEZE GT	4.5	4.7	3.7	4.3
7C34	3.7	5.0	2.7	3.8
BEUDIN	3.7	6.0	1.7	3.8
DLFPS-FRR/3068	3.5	4.7	2.7	3.6
BOREAL	4.3	4.0	1.7	3.3
NAVIGATOR II	4.3	4.0	1.7	3.3
RAD-FR47	3.7	4.0	1.7	3.1
DLFPS-FRR/3069	3.0	3.7	2.3	3.0
KENT	4.0	3.7	1.3	3.0
RAD-FR33R	3.0	3.0	1.7	2.6
MARVEL	2.7	2.0	1.0	1.9
LSD VALUE	2.0	1.7	1.5	1.0
C.V. (%)	22.7	15.3	22.5	19.6

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

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

TABLE 21B.   DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                              2018 DATA

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

NAME	IN1	MI2	NJ2	MEAN
RADAR	7.3	9.0	6.3	7.6
BOLSTER (C14-OS3)	7.7	9.0	5.7	7.4
MOMENTUM (PPG-FRC 114)	7.3	9.0	5.7	7.3
COMPASS II (PPG-FRC 113)	6.7	9.0	5.7	7.1
DLF-FRC 3338	6.7	9.0	5.0	6.9
DLFPS-FRC/3057	7.0	9.0	4.7	6.9
RAD-FC44	7.3	9.0	3.3	6.6
CASTLE (RAD-FC32)	6.0	9.0	4.3	6.4
DLFPS-FRC/3060	7.7	7.0	4.3	6.3
BAR VV-VP3-CT	7.3	7.7	3.7	6.2
CASCADE	6.3	9.0	2.7	6.0
SANDRINE (BAR 6FR 126)	6.7	9.0	2.3	6.0
LSD VALUE	1.3	0.5	1.2	0.6
C.V. (%)	11.2	3.8	16.7	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 21C.   DOLLAR SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                              2018 DATA

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

NAME	IN1	MI2	NJ2	MEAN
CARDINAL II (PPG-FRR 111)	5.3	8.3	4.3	6.0
DLF-FRR 6162	4.3	8.3	4.0	5.6
PST-4BEN	4.0	8.7	3.7	5.4
PST-4RUE	5.3	8.0	3.0	5.4
PST-4ED4	4.7	8.3	3.0	5.3
PST-4DR4	4.0	7.0	2.7	4.6
7C34	3.7	5.0	2.7	3.8
DLFPS-FRR/3068	3.5	4.7	2.7	3.6
BOREAL	4.3	4.0	1.7	3.3
NAVIGATOR II	4.3	4.0	1.7	3.3
RAD-FR47	3.7	4.0	1.7	3.1
DLFPS-FRR/3069	3.0	3.7	2.3	3.0
KENT	4.0	3.7	1.3	3.0
RAD-FR33R	3.0	3.0	1.7	2.6
MARVEL	2.7	2.0	1.0	1.9
LSD VALUE	2.0	2.1	1.4	1.1
C.V. (%)	31.1	24.0	35.4	29.1

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

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

```
     TABLE 21D.                    DOLLAR SPOT RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                              2018 DATA

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

                          NAME                    IN1    MI2    NJ2    MEAN

                          GLADIATOR (TH456)       6.5    9.0    7.3    7.6
                          MNHD-14                 7.0    7.3    6.7    7.0
                          DLFPS-FL/3066           6.3    7.0    6.7    6.7
                          RESOLUTE (7H7)          5.0    8.0    7.0    6.7
                          JETTY (PPG-FL 106)      5.7    8.0    6.0    6.6
                          BEACON                  7.5    6.7    5.3    6.5
                          DLFPS-FL/3060           7.0    6.3    6.0    6.4
                          QUATRO                  4.7    9.0    5.0    6.2
                          PST-4BND                6.0    7.3    5.3    6.2
                          SWORD                   4.0    7.0    6.3    5.8
                          MINIMUS                 5.0    5.7    6.3    5.7

                          LSD VALUE               3.0    1.4    1.6    1.2
                          C.V. (%)               29.5   12.0   16.4   19.1
```

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 21E.                  DOLLAR SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                              2018 DATA

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

                          NAME                       IN1    MI2    NJ2    MEAN

                          SEAMIST (PPG-FRT 101)      7.7    7.0    3.7    6.1
                          BARPEARL (BAR FRT 5002)    4.7    6.7    2.3    4.6
                          SEABREEZE GT               4.5    4.7    3.7    4.3
                          BEUDIN                     3.7    6.0    1.7    3.8

                          LSD VALUE                  1.4    2.7    1.9    1.2
                          C.V. (%)                  15.6   28.1   40.8   27.6
```

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.

RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                                          2018 DATA

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

NAME	MO1	OR1	MEAN
BARPEARL (BAR FRT 5002)	9.0	9.0	9.0
BEUDIN	9.0	9.0	9.0
GLADIATOR (TH456)	9.0	9.0	9.0
MNHD-14	9.0	9.0	9.0
QUATRO	9.0	9.0	9.0
BEACON	9.0	8.7	8.8
DLFPS-FL/3060	9.0	8.7	8.8
JETTY (PPG-FL 106)	9.0	8.7	8.8
PST-4RUE	9.0	8.7	8.8
BOLSTER (C14-OS3)	8.3	9.0	8.7
DLFPS-FL/3066	9.0	8.3	8.7
PST-4BND	9.0	8.3	8.7
RESOLUTE (7H7)	9.0	8.3	8.7
PST-4ED4	8.7	8.7	8.7
DLF-FRC 3338	8.0	9.0	8.5
SWORD	9.0	8.0	8.5
CARDINAL II (PPG-FRR 111)	7.7	9.0	8.3
DLFPS-FRR/3068	7.7	9.0	8.3
PST-4BEN	7.7	9.0	8.3
RAD-FR33R	7.7	9.0	8.3
CASCADE	8.7	7.7	8.2
SANDRINE (BAR 6FR 126)	7.3	9.0	8.2
MINIMUS	7.3	8.7	8.0
PST-4DR4	8.0	8.0	8.0
SEAMIST (PPG-FRT 101)	7.3	8.7	8.0
COMPASS II (PPG-FRC 113)	6.7	9.0	7.8
DLFPS-FRR/3069	8.0	7.7	7.8
RAD-FR47	6.7	8.7	7.7
DLF-FRR 6162	7.3	7.7	7.5
KENT	7.0	7.7	7.3
7C34	5.3	9.0	7.2
BAR VV-VP3-CT	5.7	8.3	7.0
CASTLE (RAD-FC32)	6.0	7.7	6.8
MARVEL	5.3	8.3	6.8
NAVIGATOR II	5.7	8.0	6.8
MOMENTUM (PPG-FRC 114)	5.0	8.7	6.8
BOREAL	5.3	7.7	6.5
DLFPS-FRC/3060	6.0	7.0	6.5
SEABREEZE GT	5.0	8.0	6.5
RADAR	3.7	9.0	6.3
DLFPS-FRC/3057	3.3	9.0	6.2
RAD-FC44	2.0	8.7	5.3
LSD VALUE	3.2	1.1	1.7
C.V. (%)	27.1	7.9	18.6

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.

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

NAME	MO1	OR1	MEAN
BOLSTER (C14-OS3)	8.3	9.0	8.7
DLF-FRC 3338	8.0	9.0	8.5
CASCADE	8.7	7.7	8.2
SANDRINE (BAR 6FR 126)	7.3	9.0	8.2
COMPASS II (PPG-FRC 113)	6.7	9.0	7.8
BAR VV-VP3-CT	5.7	8.3	7.0
CASTLE (RAD-FC32)	6.0	7.7	6.8
MOMENTUM (PPG-FRC 114)	5.0	8.7	6.8
DLFPS-FRC/3060	6.0	7.0	6.5
RADAR	3.7	9.0	6.3
DLFPS-FRC/3057	3.3	9.0	6.2
RAD-FC44	2.0	8.7	5.3
LSD VALUE	3.3	0.9	1.7
C.V. (%)	34.8	6.5	20.8

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 22C.   RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                        2018 DATA

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

NAME	MO1	OR1	MEAN
PST-4RUE	9.0	8.7	8.8
PST-4ED4	8.7	8.7	8.7
CARDINAL II (PPG-FRR 111)	7.7	9.0	8.3
DLFPS-FRR/3068	7.7	9.0	8.3
PST-4BEN	7.7	9.0	8.3
RAD-FR33R	7.7	9.0	8.3
PST-4DR4	8.0	8.0	8.0
DLFPS-FRR/3069	8.0	7.7	7.8
RAD-FR47	6.7	8.7	7.7
DLF-FRR 6162	7.3	7.7	7.5
KENT	7.0	7.7	7.3
7C34	5.3	9.0	7.2
MARVEL	5.3	8.3	6.8
NAVIGATOR II	5.7	8.0	6.8
BOREAL	5.3	7.7	6.5
LSD VALUE	3.8	1.2	2.0
C.V. (%)	33.1	9.0	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 22D.                    RED THREAD RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                            2018 DATA

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

                    NAME                    MO1    OR1    MEAN

                    GLADIATOR (TH456)       9.0    9.0    9.0
                    MNHD-14                 9.0    9.0    9.0
                    QUATRO                  9.0    9.0    9.0
                    BEACON                  9.0    8.7    8.8
                    DLFPS-FL/3060           9.0    8.7    8.8
                    JETTY (PPG-FL 106)      9.0    8.7    8.8
                    DLFPS-FL/3066           9.0    8.3    8.7
                    PST-4BND                9.0    8.3    8.7
                    RESOLUTE (7H7)          9.0    8.3    8.7
                    SWORD                   9.0    8.0    8.5
                    MINIMUS                 7.3    8.7    8.0

                    LSD VALUE               1.4    1.1    0.9
                    C.V. (%)                9.8    8.1    9.0
```

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

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

```
     TABLE 22E.                    RED THREAD RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                            2018 DATA

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

                    NAME                       MO1    OR1    MEAN

                    BARPEARL (BAR FRT 5002)    9.0    9.0    9.0
                    BEUDIN                     9.0    9.0    9.0
                    SEAMIST (PPG-FRT 101)      7.3    8.7    8.0
                    SEABREEZE GT               5.0    8.0    6.5

                    LSD VALUE                  3.6    0.9    1.9
                    C.V. (%)                   29.7   6.7    20.3
```

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.

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

NAME	MA1	MN1	NJ1	MEAN
BEACON	4.0	9.0	9.0	7.3
JETTY (PPG-FL 106)	4.0	9.0	9.0	7.3
DLFPS-FL/3066	3.7	9.0	9.0	7.2
DLFPS-FRR/3069	3.7	9.0	9.0	7.2
MINIMUS	3.3	9.0	9.0	7.1
MNHD-14	4.3	8.7	8.3	7.1
CASCADE	3.7	8.7	9.0	7.1
BOREAL	3.0	9.0	9.0	7.0
DLFPS-FRR/3068	3.0	9.0	9.0	7.0
PST-4RUE	3.0	9.0	9.0	7.0
CARDINAL II (PPG-FRR 111)	2.7	9.0	9.0	6.9
NAVIGATOR II	2.7	9.0	9.0	6.9
7C34	2.3	9.0	9.0	6.8
DLFPS-FRC/3060	2.3	9.0	9.0	6.8
KENT	2.3	9.0	9.0	6.8
MARVEL	2.3	9.0	9.0	6.8
RAD-FR33R	2.3	9.0	9.0	6.8
DLF-FRR 6162	2.0	9.0	9.0	6.7
DLFPS-FRC/3057	2.0	9.0	9.0	6.7
PST-4BND	4.0	9.0	7.0	6.7
QUATRO	3.0	9.0	8.0	6.7
RAD-FR47	3.0	9.0	8.0	6.7
PST-4BEN	3.0	9.0	7.7	6.6
GLADIATOR (TH456)	4.3	9.0	6.3	6.6
RAD-FC44	1.7	9.0	9.0	6.6
RADAR	1.7	9.0	9.0	6.6
COMPASS II (PPG-FRC 113)	1.3	9.0	9.0	6.4
DLF-FRC 3338	1.3	9.0	9.0	6.4
DLFPS-FL/3060	3.3	9.0	7.0	6.4
MOMENTUM (PPG-FRC 114)	1.3	9.0	9.0	6.4
PST-4DR4	2.0	8.3	9.0	6.4
BOLSTER (C14-OS3)	1.0	9.0	9.0	6.3
CASTLE (RAD-FC32)	1.0	9.0	9.0	6.3
SANDRINE (BAR 6FR 126)	1.0	9.0	9.0	6.3
SEAMIST (PPG-FRT 101)	1.0	9.0	9.0	6.3
SWORD	3.3	8.7	7.0	6.3
PST-4ED4	2.3	9.0	7.3	6.2
BAR VV-VP3-CT	1.0	8.7	9.0	6.2
BEUDIN	3.7	9.0	6.0	6.2
RESOLUTE (7H7)	3.7	9.0	5.7	6.1
SEABREEZE GT	1.7	9.0	7.3	6.0
BARPEARL (BAR FRT 5002)	2.3	9.0	6.0	5.8
LSD VALUE	1.0	0.4	2.4	0.9
C.V. (%)	24.8	2.8	18.0	14.4

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

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

SUMMER PATCH RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                    2018 DATA

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

NAME	MA1	MN1	NJ1	MEAN
CASCADE	3.7	8.7	9	7.1
DLFPS-FRC/3060	2.3	9.0	9	6.8
DLFPS-FRC/3057	2.0	9.0	9	6.7
RAD-FC44	1.7	9.0	9	6.6
RADAR	1.7	9.0	9	6.6
COMPASS II (PPG-FRC 113)	1.3	9.0	9	6.4
DLF-FRC 3338	1.3	9.0	9	6.4
MOMENTUM (PPG-FRC 114)	1.3	9.0	9	6.4
BOLSTER (C14-OS3)	1.0	9.0	9	6.3
CASTLE (RAD-FC32)	1.0	9.0	9	6.3
SANDRINE (BAR 6FR 126)	1.0	9.0	9	6.3
BAR VV-VP3-CT	1.0	8.7	9	6.2
LSD VALUE	0.8	0.4	0	0.3
C.V. (%)	32.7	2.6	0	5.1

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 23C.   SUMMER PATCH RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                    2018 DATA

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

NAME	MA1	MN1	NJ1	MEAN
DLFPS-FRR/3069	3.7	9.0	9.0	7.2
BOREAL	3.0	9.0	9.0	7.0
DLFPS-FRR/3068	3.0	9.0	9.0	7.0
PST-4RUE	3.0	9.0	9.0	7.0
CARDINAL II (PPG-FRR 111)	2.7	9.0	9.0	6.9
NAVIGATOR II	2.7	9.0	9.0	6.9
7C34	2.3	9.0	9.0	6.8
KENT	2.3	9.0	9.0	6.8
MARVEL	2.3	9.0	9.0	6.8
RAD-FR33R	2.3	9.0	9.0	6.8
DLF-FRR 6162	2.0	9.0	9.0	6.7
RAD-FR47	3.0	9.0	8.0	6.7
PST-4BEN	3.0	9.0	7.7	6.6
PST-4DR4	2.0	8.3	9.0	6.4
PST-4ED4	2.3	9.0	7.3	6.2
LSD VALUE	1.1	0.5	1.7	0.7
C.V. (%)	25.2	3.3	12.1	10.9

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

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

TABLE 23D.   SUMMER PATCH RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                              2018 DATA

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

                    NAME   MA1   MN1   NJ1   MEAN

                    BEACON   4.0   9.0   9.0   7.3
                    JETTY (PPG-FL 106)   4.0   9.0   9.0   7.3
                    DLFPS-FL/3066   3.7   9.0   9.0   7.2
                    MINIMUS   3.3   9.0   9.0   7.1
                    MNHD-14   4.3   8.7   8.3   7.1
                    PST-4BND   4.0   9.0   7.0   6.7
                    QUATRO   3.0   9.0   8.0   6.7
                    GLADIATOR (TH456)   4.3   9.0   6.3   6.6
                    DLFPS-FL/3060   3.3   9.0   7.0   6.4
                    SWORD   3.3   8.7   7.0   6.3
                    RESOLUTE (7H7)   3.7   9.0   5.7   6.1

                    LSD VALUE   1.1   0.4   3.7   1.3
                    C.V. (%)   18.7   2.8   29.3   20.3

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 23E.   SUMMER PATCH RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                              2018 DATA

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

                    NAME   MA1   MN1   NJ1   MEAN

                    SEAMIST (PPG-FRT 101)   1.0   9   9.0   6.3
                    BEUDIN   3.7   9   6.0   6.2
                    SEABREEZE GT   1.7   9   7.3   6.0
                    BARPEARL (BAR FRT 5002) 2.3   9   6.0   5.8

                    LSD VALUE   1.1   0   3.8   1.3
                    C.V. (%)   32.6   0   33.4   23.4

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.

88

```
TABLE 24A.                    PERCENT POA ANNUA RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                        2018 DATA  2/

                              NAME                        IN1

                              QUATRO                      28.3
                              BEUDIN                      27.5
                              BARPEARL (BAR FRT 5002)     16.7
                              PST-4RUE                    16.7
                              RAD-FR33R                   15.0
                              SANDRINE (BAR 6FR 126)      15.0
                              JETTY (PPG-FL 106)          14.7
                              RESOLUTE (7H7)              12.7
                              PST-4BND                    12.5
                              BOREAL                      11.7
                              DLFPS-FRR/3068              10.0
                              MINIMUS                     10.0
                              PST-4BEN                    10.0
                              PST-4ED4                    10.0
                              RAD-FR47                    10.0
                              PST-4DR4                     9.3
                              DLFPS-FRR/3069               8.3
                              SWORD                        8.3
                              BEACON                       7.5
                              7C34                         7.3
                              BAR VV-VP3-CT                7.3
                              DLF-FRR 6162                 7.0
                              KENT                         7.0
                              MNHD-14                      6.5
                              CARDINAL II (PPG-FRR 111)    5.3
                              DLFPS-FRC/3057               5.3
                              CASTLE (RAD-FC32)            5.0
                              RAD-FC44                     5.0
                              DLFPS-FL/3060                4.7
                              DLFPS-FL/3066                4.0
                              GLADIATOR (TH456)            4.0
                              RADAR                        3.7
                              NAVIGATOR II                 3.3
                              CASCADE                      2.7
                              SEABREEZE GT                 2.5
                              MARVEL                       2.3
                              MOMENTUM (PPG-FRC 114)       2.3
                              DLF-FRC 3338                 2.0
                              DLFPS-FRC/3060               2.0
                              SEAMIST (PPG-FRT 101)        1.3
                              COMPASS II (PPG-FRC 113)     1.0
                              BOLSTER (C14-OS3)            0.3

                              LSD VALUE                   13.6
                              C.V. (%)                    97.9
```

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 24B.   PERCENT POA ANNUA RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                      2018 DATA 2/

                              NAME   IN1

                              SANDRINE (BAR 6FR 126)   15.0
                              BAR VV-VP3-CT   7.3
                              DLFPS-FRC/3057   5.3
                              CASTLE (RAD-FC32)   5.0
                              RAD-FC44   5.0
                              RADAR   3.7
                              CASCADE   2.7
                              MOMENTUM (PPG-FRC 114)   2.3
                              DLF-FRC 3338   2.0
                              DLFPS-FRC/3060   2.0
                              COMPASS II (PPG-FRC 113)   1.0
                              BOLSTER (C14-OS3)   0.3

                              LSD VALUE   6.6
                              C.V. (%)   95.5

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 24C.   PERCENT POA ANNUA RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                      2018 DATA 2/

                              NAME   IN1

                              PST-4RUE   16.7
                              RAD-FR33R   15.0
                              BOREAL   11.7
                              DLFPS-FRR/3068   10.0
                              PST-4BEN   10.0
                              PST-4ED4   10.0
                              RAD-FR47   10.0
                              PST-4DR4   9.3
                              DLFPS-FRR/3069   8.3
                              7C34   7.3
                              DLF-FRR 6162   7.0
                              KENT   7.0
                              CARDINAL II (PPG-FRR 111)   5.3
                              NAVIGATOR II   3.3
                              MARVEL   2.3

                              LSD VALUE   11.3
                              C.V. (%)   76.8

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 24D.   PERCENT POA ANNUA RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                                   2018 DATA 2/

                         NAME   IN1

                         QUATRO   28.3
                         JETTY (PPG-FL 106)   14.7
                         RESOLUTE (7H7)   12.7
                         PST-4BND   12.5
                         MINIMUS   10.0
                         SWORD   8.3
                         BEACON   7.5
                         MNHD-14   6.5
                         DLFPS-FL/3060   4.7
                         DLFPS-FL/3066   4.0
                         GLADIATOR (TH456)   4.0

                         LSD VALUE   21.9
                         C.V. (%)   121.5

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 24E.   PERCENT POA ANNUA RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                   2018 DATA 2/

                         NAME   IN1

                         BEUDIN   27.5
                         BARPEARL (BAR FRT 5002)   16.7
                         SEABREEZE GT   2.5
                         SEAMIST (PPG-FRT 101)   1.3

                         LSD VALUE   15.2
                         C.V. (%)   70.6

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 25A.                    PERCENT WEED RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                              2018 DATA  2/

                                 NAME                       MN2

                                 CARDINAL II (PPG-FRR 111)   50.7
                                 BOREAL                      42.0
                                 PST-4ED4                    36.7
                                 RAD-FR33R                   36.7
                                 DLFPS-FRR/3068              36.3
                                 NAVIGATOR II                36.0
                                 DLFPS-FRC/3057              35.3
                                 RAD-FR47                    35.3
                                 RADAR                       34.7
                                 QUATRO                      31.7
                                 BARPEARL (BAR FRT 5002)     30.7
                                 CASCADE                     30.0
                                 BEUDIN                      28.7
                                 BAR VV-VP3-CT               27.7
                                 PST-4BEN                    27.3
                                 DLF-FRR 6162                24.7
                                 MARVEL                      24.7
                                 DLFPS-FRR/3069              24.3
                                 PST-4DR4                    24.0
                                 CASTLE (RAD-FC32)           23.7
                                 KENT                        23.3
                                 SWORD                       23.0
                                 7C34                        22.7
                                 SEABREEZE GT                21.7
                                 BOLSTER (C14-OS3)           20.7
                                 DLF-FRC 3338                19.3
                                 SEAMIST (PPG-FRT 101)       19.3
                                 MNHD-14                     17.0
                                 PST-4RUE                    17.0
                                 SANDRINE (BAR 6FR 126)      17.0
                                 RAD-FC44                    16.7
                                 COMPASS II (PPG-FRC 113)    15.3
                                 DLFPS-FRC/3060              13.7
                                 JETTY (PPG-FL 106)          13.0
                                 PST-4BND                    12.0
                                 MOMENTUM (PPG-FRC 114)      11.7
                                 MINIMUS                     10.7
                                 RESOLUTE (7H7)              10.7
                                 BEACON                       9.7
                                 DLFPS-FL/3060                8.3
                                 DLFPS-FL/3066                8.3
                                 GLADIATOR (TH456)            4.3

                                 LSD VALUE                   19.6
                                 C.V. (%)                    52.3
```

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 25B.   PERCENT WEED RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                              2018 DATA 2/

                              NAME   MN2

                              DLFPS-FRC/3057   35.3
                              RADAR   34.7
                              CASCADE   30.0
                              BAR VV-VP3-CT   27.7
                              CASTLE (RAD-FC32)   23.7
                              BOLSTER (C14-OS3)   20.7
                              DLF-FRC 3338   19.3
                              SANDRINE (BAR 6FR 126)   17.0
                              RAD-FC44   16.7
                              COMPASS II (PPG-FRC 113)   15.3
                              DLFPS-FRC/3060   13.7
                              MOMENTUM (PPG-FRC 114)   11.7

                              LSD VALUE   20.8
                              C.V. (%)   58.5

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 25C.   PERCENT WEED RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                              2018 DATA 2/

                              NAME   MN2

                              CARDINAL II (PPG-FRR 111)   50.7
                              BOREAL   42.0
                              PST-4ED4   36.7
                              RAD-FR33R   36.7
                              DLFPS-FRR/3068   36.3
                              NAVIGATOR II   36.0
                              RAD-FR47   35.3
                              PST-4BEN   27.3
                              DLF-FRR 6162   24.7
                              MARVEL   24.7
                              DLFPS-FRR/3069   24.3
                              PST-4DR4   24.0
                              KENT   23.3
                              7C34   22.7
                              PST-4RUE   17.0

                              LSD VALUE   23.1
                              C.V. (%)   46.6

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 25D.                    PERCENT WEED RATINGS OF HARD AND SHEEP FESCUE CULTIVARS  1/
                                        2018 DATA  2/


                              NAME                    MN2

                              QUATRO                  31.7
                              SWORD                   23.0
                              MNHD-14                 17.0
                              JETTY (PPG-FL 106)      13.0
                              PST-4BND                12.0
                              MINIMUS                 10.7
                              RESOLUTE (7H7)          10.7
                              BEACON                   9.7
                              DLFPS-FL/3060            8.3
                              DLFPS-FL/3066            8.3
                              GLADIATOR (TH456)        4.3

                              LSD VALUE               11.4
                              C.V. (%)                52.6
```

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 25E.                    PERCENT WEED RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS  1/
                                        2018 DATA  2/


                              NAME                    MN2

                              BARPEARL (BAR FRT 5002)  30.7
                              BEUDIN                   28.7
                              SEABREEZE GT             21.7
                              SEAMIST (PPG-FRT 101)    19.3

                              LSD VALUE                18.9
                              C.V. (%)                 46.8
```

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.

SUMMER PATCH RATINGS OF FINELEAF FESCUE CULTIVARS
                                   AT NORTH BRUNSWICK, NJ   1/
                                            2018 DATA

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

                                                 SUMMER PATCH
        NAME   JUNE   JULY   MEAN

        7C34   9.0   9.0   9.0
        BAR VV-VP3-CT   9.0   9.0   9.0
        BEACON   9.0   9.0   9.0
        BOLSTER (C14-OS3)   9.0   9.0   9.0
        BOREAL   9.0   9.0   9.0
        CARDINAL II (PPG-FRR 111)   9.0   9.0   9.0
        CASCADE   9.0   9.0   9.0
        CASTLE (RAD-FC32)   9.0   9.0   9.0
        COMPASS II (PPG-FRC 113)   9.0   9.0   9.0
        DLF-FRC 3338   9.0   9.0   9.0
        DLF-FRR 6162   9.0   9.0   9.0
        DLFPS-FL/3066   9.0   9.0   9.0
        DLFPS-FRC/3057   9.0   9.0   9.0
        DLFPS-FRC/3060   9.0   9.0   9.0
        DLFPS-FRR/3068   9.0   9.0   9.0
        DLFPS-FRR/3069   9.0   9.0   9.0
        JETTY (PPG-FL 106)   9.0   9.0   9.0
        KENT   9.0   9.0   9.0
        MARVEL   9.0   9.0   9.0
        MINIMUS   9.0   9.0   9.0
        MOMENTUM (PPG-FRC 114)   9.0   9.0   9.0
        NAVIGATOR II   9.0   9.0   9.0
        PST-4DR4   9.0   9.0   9.0
        PST-4RUE   9.0   9.0   9.0
        RAD-FC44   9.0   9.0   9.0
        RAD-FR33R   9.0   9.0   9.0
        RADAR   9.0   9.0   9.0
        SANDRINE (BAR 6FR 126)   9.0   9.0   9.0
        SEAMIST (PPG-FRT 101)   9.0   9.0   9.0
        MNHD-14   8.3   8.3   8.3
        RAD-FR47   8.0   8.0   8.0
        PST-4BEN   7.7   7.3   7.5
        SEABREEZE GT   7.3   7.3   7.3
        PST-4ED4   7.3   7.0   7.2
        QUATRO   8.0   6.3   7.2
        DLFPS-FL/3060   7.0   6.7   6.8
        SWORD   7.0   6.7   6.8
        PST-4BND   7.0   6.3   6.7
        GLADIATOR (TH456)   6.3   6.0   6.2
        BARPEARL (BAR FRT 5002)   6.0   5.3   5.7
        RESOLUTE (7H7)   5.7   5.3   5.5
        BEUDIN   6.0   4.7   5.3

        LSD VALUE   4.2   4.7   4.4
        C.V. (%)   18.1   22.0   19.9

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

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

SUMMER PATCH RATINGS OF CHEWINGS FESCUE CULTIVARS
                                AT NORTH BRUNSWICK, NJ   1/
                                      2018 DATA

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

NAME	JUNE	JULY	MEAN
BAR VV-VP3-CT	9	9	9
BOLSTER (C14-OS3)	9	9	9
CASCADE	9	9	9
CASTLE (RAD-FC32)	9	9	9
COMPASS II (PPG-FRC 113)	9	9	9
DLF-FRC 3338	9	9	9
DLFPS-FRC/3057	9	9	9
DLFPS-FRC/3060	9	9	9
MOMENTUM (PPG-FRC 114)	9	9	9
RAD-FC44	9	9	9
RADAR	9	9	9
SANDRINE (BAR 6FR 126)	9	9	9
LSD VALUE	0	0	0
C.V. (%)	0	0	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 26C.   SUMMER PATCH RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                                AT NORTH BRUNSWICK, NJ   1/
                                      2018 DATA

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

NAME	JUNE	JULY	MEAN
7C34	9.0	9.0	9.0
BOREAL	9.0	9.0	9.0
CARDINAL II (PPG-FRR 111)	9.0	9.0	9.0
DLF-FRR 6162	9.0	9.0	9.0
DLFPS-FRR/3068	9.0	9.0	9.0
DLFPS-FRR/3069	9.0	9.0	9.0
KENT	9.0	9.0	9.0
MARVEL	9.0	9.0	9.0
NAVIGATOR II	9.0	9.0	9.0
PST-4DR4	9.0	9.0	9.0
PST-4RUE	9.0	9.0	9.0
RAD-FR33R	9.0	9.0	9.0
RAD-FR47	8.0	8.0	8.0
PST-4BEN	7.7	7.3	7.5
PST-4ED4	7.3	7.0	7.2
LSD VALUE	3.1	3.7	3.4
C.V. (%)	12.2	14.5	13.3

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.

SUMMER PATCH RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                            AT NORTH BRUNSWICK, NJ   1/
                                   2018 DATA

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

| | SUMMER PATCH | | |
NAME	JUNE	JULY	MEAN
BEACON	9.0	9.0	9.0
DLFPS-FL/3066	9.0	9.0	9.0
JETTY (PPG-FL 106)	9.0	9.0	9.0
MINIMUS	9.0	9.0	9.0
MNHD-14	8.3	8.3	8.3
QUATRO	8.0	6.3	7.2
DLFPS-FL/3060	7.0	6.7	6.8
SWORD	7.0	6.7	6.8
PST-4BND	7.0	6.3	6.7
GLADIATOR (TH456)	6.3	6.0	6.2
RESOLUTE (7H7)	5.7	5.3	5.5
LSD VALUE	5.6	6.6	6.1
C.V. (%)	27.3	33.7	30.3

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 26E.   SUMMER PATCH RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                            AT NORTH BRUNSWICK, NJ   1/
                                   2018 DATA

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

| | SUMMER PATCH | | |
NAME	JUNE	JULY	MEAN
SEAMIST (PPG-FRT 101)	9.0	9.0	9.0
SEABREEZE GT	7.3	7.3	7.3
BARPEARL (BAR FRT 5002)	6.0	5.3	5.7
BEUDIN	6.0	4.7	5.3
LSD VALUE	5.9	7.0	6.4
C.V. (%)	36.2	47.2	41.2

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 27A.                    DOLLAR SPOT RATINGS OF FINELEAF FESCUE CULTIVARS
                                   AT WEST LAFAYETTE, IN   1/
                                          2018 DATA


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


              NAME                       JUNE      AUGUST      MEAN

              DLFPS-FRC/3060             7.7        7.3        7.5
              BOLSTER (C14-OS3)          7.7        7.0        7.3
              SEAMIST (PPG-FRT 101)      7.7        6.7        7.2
              BAR VV-VP3-CT              7.3        6.3        6.8
              BEACON                     7.5        6.0        6.8
              COMPASS II (PPG-FRC 113)   6.7        7.0        6.8
              RAD-FC44                   7.3        6.3        6.8
              MOMENTUM (PPG-FRC 114)     7.3        6.0        6.7
              SANDRINE (BAR 6FR 126)     6.7        6.7        6.7
              RADAR                      7.3        5.7        6.5
              DLFPS-FRC/3057             7.0        5.7        6.3
              GLADIATOR (TH456)          6.5        6.0        6.3
              DLF-FRC 3338               6.7        5.7        6.2
              MNHD-14                    7.0        5.0        6.0
              CASCADE                    6.3        5.3        5.8
              CASTLE (RAD-FC32)          6.0        5.7        5.8
              DLFPS-FL/3060              7.0        4.7        5.8
              DLFPS-FL/3066              6.3        5.0        5.7
              JETTY (PPG-FL 106)         5.7        5.7        5.7
              PST-4BND                   6.0        5.3        5.7
              QUATRO                     4.7        6.7        5.7
              RESOLUTE (7H7)             5.0        5.7        5.3
              PST-4RUE                   5.3        4.0        5.2
              BARPEARL (BAR FRT 5002)    4.7        4.7        4.7
              SEABREEZE GT               4.5        4.5        4.5
              CARDINAL II (PPG-FRR 111)  5.3        3.3        4.3
              MINIMUS                    5.0        3.3        4.2
              SWORD                      4.0        5.5        4.2
              KENT                       4.0        3.7        3.8
              BOREAL                     4.3        3.0        3.7
              RAD-FR47                   3.7        3.5        3.7
              BEUDIN                     3.7        3.5        3.5
              DLFPS-FRR/3068             3.5        3.0        3.3
              PST-4BEN                   4.0        2.7        3.3
              PST-4DR4                   4.0        2.7        3.3
              PST-4ED4                   4.7        2.0        3.3
              DLF-FRR 6162               4.3        2.0        3.2
              7C34                       3.7        2.3        3.0
              NAVIGATOR II               4.3        1.7        3.0
              DLFPS-FRR/3069             3.0        2.3        2.7
              RAD-FR33R                  3.0        2.3        2.7
              MARVEL                     2.7        1.3        2.0


              LSD VALUE                  1.9        1.7        1.6
              C.V. (%)                  21.3       23.4       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 27B.   DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS
                                    AT WEST LAFAYETTE, IN   1/
                                          2018 DATA

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

                NAME   JUNE   AUGUST   MEAN

                DLFPS-FRC/3060   7.7   7.3   7.5
                BOLSTER (C14-OS3)   7.7   7.0   7.3
                BAR VV-VP3-CT   7.3   6.3   6.8
                COMPASS II (PPG-FRC 113)   6.7   7.0   6.8
                RAD-FC44   7.3   6.3   6.8
                MOMENTUM (PPG-FRC 114)   7.3   6.0   6.7
                SANDRINE (BAR 6FR 126)   6.7   6.7   6.7
                RADAR   7.3   5.7   6.5
                DLFPS-FRC/3057   7.0   5.7   6.3
                DLF-FRC 3338   6.7   5.7   6.2
                CASCADE   6.3   5.3   5.8
                CASTLE (RAD-FC32)   6.0   5.7   5.8

                LSD VALUE   1.8   1.7   1.2
                C.V. (%)   10.8   12.8   8.7

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

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

TABLE 27C.   DOLLAR SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                                    AT WEST LAFAYETTE, IN   1/
                                          2018 DATA

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

                NAME   JUNE   AUGUST   MEAN

                PST-4RUE   5.3   4.0   5.2
                CARDINAL II (PPG-FRR 111)   5.3   3.3   4.3
                KENT   4.0   3.7   3.8
                BOREAL   4.3   3.0   3.7
                RAD-FR47   3.7   3.5   3.7
                DLFPS-FRR/3068   3.5   3.0   3.3
                PST-4BEN   4.0   2.7   3.3
                PST-4DR4   4.0   2.7   3.3
                PST-4ED4   4.7   2.0   3.3
                DLF-FRR 6162   4.3   2.0   3.2
                7C34   3.7   2.3   3.0
                NAVIGATOR II   4.3   1.7   3.0
                DLFPS-FRR/3069   3.0   2.3   2.7
                RAD-FR33R   3.0   2.3   2.7
                MARVEL   2.7   1.3   2.0

                LSD VALUE   2.2   1.5   1.4
                C.V. (%)   24.0   28.8   22.1

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 27D.                DOLLAR SPOT RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
                                  AT WEST LAFAYETTE, IN   1/
                                       2018 DATA

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


                   NAME                    JUNE      AUGUST      MEAN

                   BEACON                   7.5        6.0        6.8
                   GLADIATOR (TH456)        6.5        6.0        6.3
                   MNHD-14                  7.0        5.0        6.0
                   DLFPS-FL/3060            7.0        4.7        5.8
                   DLFPS-FL/3066            6.3        5.0        5.7
                   JETTY (PPG-FL 106)       5.7        5.7        5.7
                   PST-4BND                 6.0        5.3        5.7
                   QUATRO                   4.7        6.7        5.7
                   RESOLUTE (7H7)           5.0        5.7        5.3
                   MINIMUS                  5.0        3.3        4.2
                   SWORD                    4.0        5.5        4.2

                   LSD VALUE                4.4        4.7        4.8
                   C.V. (%)                27.8       30.4       28.2
```

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 27E.                DOLLAR SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
                                  AT WEST LAFAYETTE, IN   1/
                                       2018 DATA

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


                   NAME                    JUNE      AUGUST      MEAN

                   SEAMIST (PPG-FRT 101)    7.7        6.7        7.2
                   BARPEARL (BAR FRT 5002)  4.7        4.7        4.7
                   SEABREEZE GT             4.5        4.5        4.5
                   BEUDIN                   3.7        3.5        3.5

                   LSD VALUE                1.4        1.9        1.3
                   C.V. (%)                12.2       14.6       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 28A.                    BROWN PATCH RATINGS OF FINELEAF FESCUE CULTIVARS
                                          AT RALEIGH, NC  1/
                                              2018 DATA

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


                   NAME                      JUNE      AUGUST      MEAN

                   DLF-FRR 6162              6.0        7.0        6.5
                   GLADIATOR (TH456)         6.0        6.0        6.0
                   MINIMUS                   6.0        5.0        5.5
                   PST-4DR4                  5.5        5.5        5.5
                   RAD-FR33R                 5.5        5.0        5.3
                   PST-4BEN                  5.0        5.3        5.2
                   BEUDIN                    6.0        4.0        5.0
                   CARDINAL II (PPG-FRR 111) 5.0        5.0        5.0
                   COMPASS II (PPG-FRC 113)  5.3        4.7        5.0
                   7C34                      5.7        4.0        4.8
                   PST-4RUE                  4.7        5.0        4.8
                   DLFPS-FRR/3068            5.7        3.7        4.7
                   BEACON                    6.0        3.0        4.5
                   DLFPS-FL/3060             5.0        4.0        4.5
                   DLFPS-FRC/3057            5.0        4.0        4.5
                   MARVEL                    6.0        3.0        4.5
                   RESOLUTE (7H7)            5.0        4.0        4.5
                   DLF-FRC 3338              5.0        3.7        4.3
                   RADAR                     4.7        3.7        4.2
                   BAR VV-VP3-CT             4.3        3.7        4.0
                   MOMENTUM (PPG-FRC 114)    4.3        3.7        4.0
                   SANDRINE (BAR 6FR 126)    4.5        3.0        3.8
                   DLFPS-FRR/3069            4.3        3.0        3.7
                   SEAMIST (PPG-FRT 101)     3.7        3.7        3.7
                   KENT                      4.0        3.0        3.5
                   PST-4ED4                  3.7        3.3        3.5
                   RAD-FR47                  4.0        3.0        3.5
                   CASTLE (RAD-FC32)         4.0        2.5        3.3
                   NAVIGATOR II              4.0        2.3        3.2
                   BOLSTER (C14-OS3)         3.3        2.7        3.0
                   DLFPS-FRC/3060            4.0        2.0        3.0
                   QUATRO                    4.0        2.0        3.0
                   CASCADE                   3.0        2.3        2.7
                   BOREAL                    3.0        2.0        2.5
                   RAD-FC44                  3.0        2.0        2.5
                   BARPEARL (BAR FRT 5002)    .          .          .
                   DLFPS-FL/3066              .          .          .
                   JETTY (PPG-FL 106)         .          .          .
                   MNHD-14                    .          .          .
                   PST-4BND                   .          .          .
                   SEABREEZE GT               .          .          .
                   SWORD                      .          .          .


                   LSD VALUE                 3.1        2.3        2.2
                   C.V. (%)                 20.9       24.8       19.7


  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 28B.   BROWN PATCH RATINGS OF CHEWINGS FESCUE CULTIVARS
                                          AT RALEIGH, NC 1/
                                              2018 DATA

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

                    NAME   JUNE   AUGUST   MEAN

                    COMPASS II (PPG-FRC 113)   5.3   4.7   5.0
                    DLFPS-FRC/3057   5.0   4.0   4.5
                    DLF-FRC 3338   5.0   3.7   4.3
                    RADAR   4.7   3.7   4.2
                    BAR VV-VP3-CT   4.3   3.7   4.0
                    MOMENTUM (PPG-FRC 114)   4.3   3.7   4.0
                    SANDRINE (BAR 6FR 126)   4.5   3.0   3.8
                    CASTLE (RAD-FC32)   4.0   2.5   3.3
                    BOLSTER (C14-OS3)   3.3   2.7   3.0
                    DLFPS-FRC/3060   4.0   2.0   3.0
                    CASCADE   3.0   2.3   2.7
                    RAD-FC44   3.0   2.0   2.5

                    LSD VALUE   2.9   1.4   1.4
                    C.V. (%)   23.7   19.4   16.5

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 28C.   BROWN PATCH RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
                                          AT RALEIGH, NC 1/
                                              2018 DATA

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

                    NAME   JUNE   AUGUST   MEAN

                    DLF-FRR 6162   6.0   7.0   6.5
                    PST-4DR4   5.5   5.5   5.5
                    RAD-FR33R   5.5   5.0   5.3
                    PST-4BEN   5.0   5.3   5.2
                    CARDINAL II (PPG-FRR 111)   5.0   5.0   5.0
                    7C34   5.7   4.0   4.8
                    PST-4RUE   4.7   5.0   4.8
                    DLFPS-FRR/3068   5.7   3.7   4.7
                    MARVEL   6.0   3.0   4.5
                    DLFPS-FRR/3069   4.3   3.0   3.7
                    KENT   4.0   3.0   3.5
                    PST-4ED4   3.7   3.3   3.5
                    RAD-FR47   4.0   3.0   3.5
                    NAVIGATOR II   4.0   2.3   3.2
                    BOREAL   3.0   2.0   2.5

                    LSD VALUE   2.7   3.2   2.8
                    C.V. (%)   19.4   29.3   22.5

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

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

TABLE 28D.   BROWN PATCH RATINGS OF HARD AND SHEEP FESCUE CULTIVARS
AT RALEIGH, NC 1/
2018 DATA

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

NAME	JUNE	AUGUST	MEAN
GLADIATOR (TH456)	6.0	6.0	6.0
MINIMUS	6.0	5.0	5.5
BEACON	6.0	3.0	4.5
DLFPS-FL/3060	5.0	4.0	4.5
RESOLUTE (7H7)	5.0	4.0	4.5
QUATRO	4.0	2.0	3.0
DLFPS-FL/3066	.	.	.
JETTY (PPG-FL 106)	.	.	.
MNHD-14	.	.	.
PST-4BND	.	.	.
SWORD	.	.	.
LSD VALUE	2.7	3.2	2.8
C.V. (%)	.	.	.

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
    STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER 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 28E.   BROWN PATCH RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
AT RALEIGH, NC 1/
2018 DATA

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

NAME	JUNE	AUGUST	MEAN
BEUDIN	6.0	4.0	5.0
SEAMIST (PPG-FRT 101)	3.7	3.7	3.7
BARPEARL (BAR FRT 5002)	.	.	.
SEABREEZE GT	.	.	.
LSD VALUE	2.7	3.2	2.8
C.V. (%)	.	.	.

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
    STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER 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 WEED RATINGS OF FINELEAF FESCUE CULTIVARS 1/
                             AT ST. PAUL (FAIRWAY), MN 2/
                                    2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
SWORD	9.0	19.7	9.3	12.7
MINIMUS	1.3	21.0	12.0	11.4
MNHD-14	2.7	19.7	9.3	10.6
PST-4ED4	2.0	25.0	2.3	9.8
RAD-FR47	0.0	18.7	6.3	8.3
CASCADE	2.7	17.7	4.3	8.2
QUATRO	0.7	12.7	11.0	8.1
SANDRINE (BAR 6FR 126)	0.7	11.0	10.7	7.4
BAR VV-VP3-CT	0.0	19.7	2.3	7.3
PST-4BND	2.7	17.0	1.0	6.9
DLFPS-FRR/3069	2.7	14.3	3.0	6.7
KENT	0.0	12.7	7.0	6.6
PST-4BEN	1.0	15.7	2.7	6.4
PST-4DR4	0.0	15.0	2.0	5.7
SEABREEZE GT	1.7	11.7	3.7	5.7
DLFPS-FL/3066	5.0	6.7	4.7	5.4
DLFPS-FRR/3068	0.7	11.0	4.3	5.3
CARDINAL II (PPG-FRR 111)	0.0	11.3	3.7	5.0
7C34	0.7	10.7	2.3	4.6
JETTY (PPG-FL 106)	0.0	10.3	3.3	4.6
BEUDIN	0.0	9.3	3.0	4.1
PST-4RUE	1.0	9.0	2.3	4.1
BARPEARL (BAR FRT 5002)	0.0	8.3	3.0	3.8
NAVIGATOR II	0.7	6.7	4.0	3.8
BOREAL	0.0	9.3	1.7	3.7
MOMENTUM (PPG-FRC 114)	0.0	4.7	5.0	3.2
BEACON	1.3	6.7	1.3	3.1
GLADIATOR (TH456)	0.0	6.7	1.7	2.8
CASTLE (RAD-FC32)	0.7	6.0	0.3	2.3
DLFPS-FRC/3060	0.0	4.7	2.3	2.3
MARVEL	2.0	4.7	0.3	2.3
DLFPS-FRC/3057	0.7	3.3	2.0	2.0
BOLSTER (C14-OS3)	0.0	5.3	0.3	1.9
RAD-FR33R	0.0	4.7	1.0	1.9
COMPASS II (PPG-FRC 113)	0.0	5.0	0.3	1.8
DLFPS-FL/3060	0.0	5.3	0.0	1.8
RADAR	0.0	1.7	3.7	1.8
RESOLUTE (7H7)	0.0	4.3	1.0	1.8
DLF-FRR 6162	0.0	3.7	0.3	1.3
RAD-FC44	0.0	3.7	0.3	1.3
DLF-FRC 3338	0.0	3.3	0.3	1.2
SEAMIST (PPG-FRT 101)	0.0	2.3	1.3	1.2
LSD VALUE	6.3	23.7	18.1	11.3
C.V. (%)	254.8	87.7	158.2	90.3

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.

PERCENT WEED RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                             AT ST. PAUL (FAIRWAY), MN 2/
                                    2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
CASCADE	2.7	17.7	4.3	8.2
SANDRINE (BAR 6FR 126)	0.7	11.0	10.7	7.4
BAR VV-VP3-CT	0.0	19.7	2.3	7.3
MOMENTUM (PPG-FRC 114)	0.0	4.7	5.0	3.2
CASTLE (RAD-FC32)	0.7	6.0	0.3	2.3
DLFPS-FRC/3060	0.0	4.7	2.3	2.3
DLFPS-FRC/3057	0.7	3.3	2.0	2.0
BOLSTER (C14-OS3)	0.0	5.3	0.3	1.9
COMPASS II (PPG-FRC 113)	0.0	5.0	0.3	1.8
RADAR	0.0	1.7	3.7	1.8
RAD-FC44	0.0	3.7	0.3	1.3
DLF-FRC 3338	0.0	3.3	0.3	1.2
LSD VALUE	4.1	10.2	10.0	5.6
C.V. (%)	376.3	76.2	158.4	82.1

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 29C.   PERCENT WEED RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                             AT ST. PAUL (FAIRWAY), MN 2/
                                    2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
PST-4ED4	2.0	25.0	2.3	9.8
RAD-FR47	0.0	18.7	6.3	8.3
DLFPS-FRR/3069	2.7	14.3	3.0	6.7
KENT	0.0	12.7	7.0	6.6
PST-4BEN	1.0	15.7	2.7	6.4
PST-4DR4	0.0	15.0	2.0	5.7
DLFPS-FRR/3068	0.7	11.0	4.3	5.3
CARDINAL II (PPG-FRR 111)	0.0	11.3	3.7	5.0
7C34	0.7	10.7	2.3	4.6
PST-4RUE	1.0	9.0	2.3	4.1
NAVIGATOR II	0.7	6.7	4.0	3.8
BOREAL	0.0	9.3	1.7	3.7
MARVEL	2.0	4.7	0.3	2.3
RAD-FR33R	0.0	4.7	1.0	1.9
DLF-FRR 6162	0.0	3.7	0.3	1.3
LSD VALUE	4.6	27.9	13.9	14.0
C.V. (%)	224.0	86.7	150.8	92.3

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.

                                AT ST. PAUL (FAIRWAY), MN 2/
                                       2018 DATA

              NAME   SPRING   SUMMER   FALL   MEAN

              SWORD   9.0   19.7   9.3   12.7
              MINIMUS   1.3   21.0   12.0   11.4
              MNHD-14   2.7   19.7   9.3   10.6
              QUATRO   0.7   12.7   11.0   8.1
              PST-4BND   2.7   17.0   1.0   6.9
              DLFPS-FL/3066   5.0   6.7   4.7   5.4
              JETTY (PPG-FL 106)   0.0   10.3   3.3   4.6
              BEACON   1.3   6.7   1.3   3.1
              GLADIATOR (TH456)   0.0   6.7   1.7   2.8
              DLFPS-FL/3060   0.0   5.3   0.0   1.8
              RESOLUTE (7H7)   0.0   4.3   1.0   1.8

              LSD VALUE   9.6   26.0   17.2   12.8
              C.V. (%)   194.2   87.2   140.1   87.0

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 29E.   PERCENT WEED RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                                AT ST. PAUL (FAIRWAY), MN 2/
                                       2018 DATA

              NAME   SPRING   SUMMER   FALL   MEAN

              SEABREEZE GT   1.7   11.7   3.7   5.7
              BEUDIN   0.0   9.3   3.0   4.1
              BARPEARL (BAR FRT 5002)   0.0   8.3   3.0   3.8
              SEAMIST (PPG-FRT 101)   0.0   2.3   1.3   1.2

              LSD VALUE   1.6   15.6   10.6   7.8
              C.V. (%)   183.3   86.8   164.5   92.2

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 30A.              PERCENT BARE SOIL RATINGS OF FINELEAF FESCUE CULTIVARS  1/
                                GROWN ON A FAIRWAY AT ST. PAUL, MN  2/
                                            2018 DATA


            NAME                        SPRING      SUMMER      FALL        MEAN

            RAD-FR47                      7.7        20.7        27.0        18.4
            DLF-FRR 6162                  4.0        18.3        32.3        18.2
            PST-4RUE                      4.0        20.3        28.7        17.7
            MARVEL                        4.3        20.7        27.7        17.6
            NAVIGATOR II                  4.3        20.7        24.7        16.6
            PST-4DR4                      4.7        14.0        27.0        15.2
            KENT                          6.3        14.7        24.3        15.1
            RAD-FR33R                     5.3        14.7        24.7        14.9
            PST-4BEN                      4.7        16.7        22.3        14.6
            BOREAL                        4.7        14.7        23.0        14.1
            DLFPS-FRR/3068                4.7        14.0        23.0        13.9
            CARDINAL II (PPG-FRR 111)     4.0        12.3        25.0        13.8
            PST-4ED4                      6.0         8.7        25.7        13.4
            DLFPS-FRR/3069               3.3        13.7        23.0        13.3
            7C34                          3.3        13.0        21.7        12.7
            DLFPS-FRC/3060               1.3         7.7        28.3        12.4
            RAD-FC44                      2.3         8.3        22.0        10.9
            DLF-FRC 3338                  0.7        11.0        20.7        10.8
            SEABREEZE GT                  1.7        10.7        20.0        10.8
            CASTLE (RAD-FC32)             0.0        13.3        17.0        10.1
            PST-4BND                      1.7         7.0        20.0         9.6
            DLFPS-FRC/3057               1.0         4.3        22.7         9.3
            RADAR                         0.0         6.3        20.3         8.9
            BAR VV-VP3-CT                 1.3         3.3        20.7         8.4
            BEUDIN                        0.0        13.0        12.0         8.3
            MOMENTUM (PPG-FRC 114)        0.7         8.7        15.3         8.2
            SEAMIST (PPG-FRT 101)         1.7         5.7        17.3         8.2
            MINIMUS                       1.3         2.0        20.3         7.9
            CASCADE                       2.7         3.7        16.7         7.7
            COMPASS II (PPG-FRC 113)      0.7         6.0        16.3         7.7
            BARPEARL (BAR FRT 5002)       1.3         7.7        12.0         7.0
            DLFPS-FL/3066                 0.7         0.0        18.0         6.2
            SWORD                         1.7         3.7        13.3         6.2
            GLADIATOR (TH456)             1.7         4.3         9.3         5.1
            BOLSTER (C14-OS3)             0.0         4.0        10.0         4.7
            DLFPS-FL/3060                 2.3         2.3         9.3         4.7
            RESOLUTE (7H7)                0.0         2.3        10.3         4.2
            MNHD-14                       0.7         2.3         9.0         4.0
            BEACON                        0.7         1.7         9.0         3.8
            JETTY (PPG-FL 106)            0.7         1.0         9.3         3.7
            SANDRINE (BAR 6FR 126)        1.7         2.0         5.7         3.1
            QUATRO                        1.3         1.3         5.7         2.8


            LSD VALUE                     3.4         8.3        11.9         5.1
            C.V. (%)                     80.1        56.0        36.1        32.3
```

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 30B.   PERCENT BARE SOIL RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
                                    GROWN ON A FAIRWAY AT ST. PAUL, MN 2/
                                              2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
DLFPS-FRC/3060	1.3	7.7	28.3	12.4
RAD-FC44	2.3	8.3	22.0	10.9
DLF-FRC 3338	0.7	11.0	20.7	10.8
CASTLE (RAD-FC32)	0.0	13.3	17.0	10.1
DLFPS-FRC/3057	1.0	4.3	22.7	9.3
RADAR	0.0	6.3	20.3	8.9
BAR VV-VP3-CT	1.3	3.3	20.7	8.4
MOMENTUM (PPG-FRC 114)	0.7	8.7	15.3	8.2
CASCADE	2.7	3.7	16.7	7.7
COMPASS II (PPG-FRC 113)	0.7	6.0	16.3	7.7
BOLSTER (C14-OS3)	0.0	4.0	10.0	4.7
SANDRINE (BAR 6FR 126)	1.7	2.0	5.7	3.1
LSD VALUE	3.8	7.5	11.2	4.4
C.V. (%)	142.6	56.3	32.5	28.1

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 30C.   PERCENT BARE SOIL RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
                                    GROWN ON A FAIRWAY AT ST. PAUL, MN 2/
                                              2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
RAD-FR47	7.7	20.7	27.0	18.4
DLF-FRR 6162	4.0	18.3	32.3	18.2
PST-4RUE	4.0	20.3	28.7	17.7
MARVEL	4.3	20.7	27.7	17.6
NAVIGATOR II	4.3	20.7	24.7	16.6
PST-4DR4	4.7	14.0	27.0	15.2
KENT	6.3	14.7	24.3	15.1
RAD-FR33R	5.3	14.7	24.7	14.9
PST-4BEN	4.7	16.7	22.3	14.6
BOREAL	4.7	14.7	23.0	14.1
DLFPS-FRR/3068	4.7	14.0	23.0	13.9
CARDINAL II (PPG-FRR 111)	4.0	12.3	25.0	13.8
PST-4ED4	6.0	8.7	25.7	13.4
DLFPS-FRR/3069	3.3	13.7	23.0	13.3
7C34	3.3	13.0	21.7	12.7
LSD VALUE	7.7	20.7	29.2	14.0
C.V. (%)	52.1	44.2	33.3	28.6

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 30D.   PERCENT BARE SOIL RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/
                        GROWN ON A FAIRWAY AT ST. PAUL, MN 2/
                                  2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
PST-4BND	1.7	7.0	20.0	9.6
MINIMUS	1.3	2.0	20.3	7.9
DLFPS-FL/3066	0.7	0.0	18.0	6.2
SWORD	1.7	3.7	13.3	6.2
GLADIATOR (TH456)	1.7	4.3	9.3	5.1
DLFPS-FL/3060	2.3	2.3	9.3	4.7
RESOLUTE (7H7)	0.0	2.3	10.3	4.2
MNHD-14	0.7	2.3	9.0	4.0
BEACON	0.7	1.7	9.0	3.8
JETTY (PPG-FL 106)	0.7	1.0	9.3	3.7
QUATRO	1.3	1.3	5.7	2.8
LSD VALUE	3.9	10.4	13.7	6.7
C.V. (%)	120.7	147.6	51.3	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.

TABLE 30E.   PERCENT BARE SOIL RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
                        GROWN ON A FAIRWAY AT ST. PAUL, MN 2/
                                  2018 DATA

NAME	SPRING	SUMMER	FALL	MEAN
SEABREEZE GT	1.7	10.7	20.0	10.8
BEUDIN	0.0	13.0	12.0	8.3
SEAMIST (PPG-FRT 101)	1.7	5.7	17.3	8.2
BARPEARL (BAR FRT 5002)	1.3	7.7	12.0	7.0
LSD VALUE	4.6	4.7	5.7	1.6
C.V. (%)	170.8	24.4	18.0	9.2

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.

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
7C34	5.1	30.8
BAR VV-VP3-CT	4.9	7.7
BARPEARL (BAR FRT 5002)	4.1	7.7
BEACON	5.1	23.1
BEUDIN	4.3	15.4
BOLSTER (C14-OS3)	5.5	46.2
BOREAL	4.2	0.0
CARDINAL II (PPG-FRR 111)	5.2	23.1
CASCADE	4.9	15.4
CASTLE (RAD-FC32)	5.0	15.4
COMPASS II (PPG-FRC 113)	5.8	61.5
DLF-FRC 3338	5.6	38.5
DLF-FRR 6162	5.0	23.1
DLFPS-FL/3060	5.5	53.8
DLFPS-FL/3066	5.7	53.8
DLFPS-FRC/3057	5.7	46.2
DLFPS-FRC/3060	5.2	23.1
DLFPS-FRR/3068	4.7	15.4
DLFPS-FRR/3069	4.6	7.7
GLADIATOR (TH456)	5.5	46.2
JETTY (PPG-FL 106)	5.6	61.5
KENT	4.6	7.7
MARVEL	4.7	0.0
MINIMUS	5.4	38.5
MNHD-14	5.5	53.8
MOMENTUM (PPG-FRC 114)	5.6	53.8
NAVIGATOR II	4.6	0.0
PST-4BEN	5.1	23.1
PST-4BND	4.8	23.1
PST-4DR4	4.8	7.7
PST-4ED4	4.6	0.0
PST-4RUE	5.0	7.7
QUATRO	4.7	0.0
RAD-FC44	5.1	7.7
RAD-FR33R	4.7	23.1
RAD-FR47	4.6	23.1
RADAR	5.6	38.5
RESOLUTE (7H7)	5.5	46.2
SANDRINE (BAR 6FR 126)	4.4	7.7
SEABREEZE GT	4.3	0.0
SEAMIST (PPG-FRT 101)	5.1	15.4
SWORD	5.2	30.8
LSD VALUE	0.3	
C.V. (%)	13.8	

*/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, 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.