

## 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:**

Dr. Melodee Fraser, Pure-Seed Testing, Inc.  
Mr. Paul Hedgpeth, Columbia River Seeds, Inc.  
Dr. Mike Kenna, USGA Green Section  
Dr. Doug Karcher, University of Arkansas  
Dr. David Kopec, University of Arizona  
Mr. Warren Bell, Biograss Sod Farms  
Dr. Ken Diesburg, Southern Illinois University  
Mr. Pat McClain, Burlingham Seeds  
Dr. Scott Ebdon, University of Massachusetts

### **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](mailto:kmorris@ntep.org)  
[www.ntep.org](http://www.ntep.org)

CONTENTS

2008 National Fineleaf Fescue Test - 2012 data

LOCATIONS SUBMITTING DATA FOR 2012 .....1

NATIONAL FINELEAF FESCUE TEST, 2008 - Entries and Sponsors.....2

Table A - 2012 Locations, Site Descriptions and Management  
Practices in the 2008 National Fineleaf Fescue Test.....3

Table B - Locations and Data Collected in 2012.....4

Table 1A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown  
in Location Performance Index (LPI) Group 1.....6

Table 1B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown  
in Location Performance Index (LPI) Group 1.....7

Table 1C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue  
Cultivars Grown in Location Performance Index (LPI) Group 1.....8

Table 1D - Mean Turfgrass Quality Ratings of Hard Fescue  
Cultivars Grown in Location Performance Index (LPI) Group 1.....8

Table 2A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown  
in Location Performance Index (LPI) Group 2.....9

Table 2B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown  
in Location Performance Index (LPI) Group 2..... 10

Table 2C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue  
Cultivars Grown in Location Performance Index (LPI) Group 2.....11

Table 2D - Mean Turfgrass Quality Ratings of Hard Fescue  
Cultivars Grown in Location Performance Index (LPI) Group 2.....11

Table 3A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown  
in Location Performance Index (LPI) Group 3.....12

Table 3B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown  
in Location Performance Index (LPI) Group 3.....13

Table 3C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue  
Cultivars Grown in Location Performance Index (LPI) Group 3.....14

Table 3D - Mean Turfgrass Quality Ratings of Hard Fescue  
Cultivars Grown in Location Performance Index (LPI) Group 3.....14

Table 4A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars  
Grown under Shade at Carbondale, IL.....15

Table 4B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars  
Grown under Shade at Carbondale, IL.....16

CONTENTS (continued)

Table 4C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Shade at Carbondale, IL.....17

Table 4D - Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown under Shade at Carbondale, IL.....17

Table 5A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....18

Table 5B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....19

Table 5C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....20

Table 5D - Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....20

Table 6A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown under Traffic Stress at Madison, WI.....21

Table 6B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown under Traffic Stress at Madison, WI.....22

Table 6C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Traffic Stress at Madison, WI.....23

Table 6D - Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown under Traffic Stress at Madison, WI.....23

Table 7A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown Under Non-mowing at Palo Alto, CA.....24

Table 7B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown Under Non-mowing at Palo Alto, CA.....25

Table 7C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown Under Non-mowing at Palo Alto, CA.....26

Table 7D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown Under Non-mowing at Palo Alto, CA.....26

Table 8A - Genetic Color Ratings of Fineleaf Fescue Cultivars.....27

Table 8B - Genetic Color Ratings of Chewings Fescue Cultivars.....28

Table 8C - Genetic Color Ratings of Strong Creeping Red Fescue Cultivars.....29

Table 8D - Genetic Color Ratings of Hard Fescue Cultivars.....29

Table 9A - Spring Greenup Ratings of Fineleaf Fescue Cultivars.....30

Table 9B - Spring Greenup Ratings of Chewings Fescue Cultivars.....31

CONTENTS (continued)

Table 9C - Spring Greenup Ratings of Strong Creeping Red Fescue Cultivars.....32

Table 9D - Spring Greenup Ratings of Hard Fescue Cultivars.....32

Table 10A- Leaf Texture Ratings of Fineleaf Fescue Cultivars.....33

Table 10B- Leaf Texture Ratings of Chewings Fescue Cultivars.....34

Table 10C- Leaf Texture Ratings of Strong Creeping Red Fescue Cultivars.....35

Table 10D- Leaf Texture Ratings of Hard Fescue Cultivars.....35

Table 11A- Percent Living Ground Cover (Spring) Ratings of  
Fineleaf Fescue Cultivars.....36

Table 11B- Percent Living Ground Cover (Spring) Ratings of  
Chewings Fescue Cultivars.....37

Table 11C- Percent Living Ground Cover (Spring) Ratings of  
Strong Creeping Red Fescue Cultivars.....38

Table 11D- Percent Living Ground Cover (Spring) Ratings of  
Hard Fescue Cultivars.....38

Table 12A- Percent Living Ground Cover (Summer) Ratings of  
Fineleaf Fescue Cultivars.....39

Table 12B- Percent Living Ground Cover (Summer) Ratings of  
Chewings Fescue Cultivars.....40

Table 12C- Percent Living Ground Cover (Summer) Ratings of  
Strong Creeping Red Fescue Cultivars.....41

Table 12D- Percent Living Ground Cover (Summer) Ratings of  
Hard Fescue Cultivars.....41

Table 13A- Percent Living Ground Cover (Fall) Ratings of  
Fineleaf Fescue Cultivars.....42

Table 13B- Percent Living Ground Cover (Fall) Ratings of  
Chewings Fescue Cultivars.....43

Table 13C- Percent Living Ground Cover (Fall) Ratings of  
Strong Creeping Red Fescue Cultivars.....44

Table 13D- Percent Living Ground Cover (Fall) Ratings of  
Hard Fescue Cultivars.....44

Table 14A- Winter Color Ratings of Fineleaf Fescue Cultivars.....45

Table 14B- Winter Color Ratings of Chewings Fescue Cultivars.....46

Table 14C- Winter Color Ratings of Strong Creeping Red Fescue Cultivars.....47

CONTENTS (continued)

Table 14D- Winter Color Ratings of Hard Fescue Cultivars.....47

Table 15A- Dollar Spot Ratings of Fineleaf Fescue Cultivars.....48

Table 15B- Dollar Spot Ratings of Chewings Fescue Cultivars.....49

Table 15C- Dollar Spot Ratings of Strong Creeping Red Fescue Cultivars.....50

Table 15D- Dollar Spot Ratings of Hard Fescue Cultivars.....50

Table 16A- Red Thread Ratings of Fineleaf Fescue Cultivars.....51

Table 16B- Red Thread Ratings of Chewings Fescue Cultivars.....52

Table 16C- Red Thread Ratings of Strong Creeping Red Fescue Cultivars.....53

Table 16D- Red Thread Ratings of Hard Fescue Cultivars.....53

Table 17A- Poa Annua Ratings of Fineleaf Fescue Cultivars.....54

Table 17B- Poa Annua Ratings of Chewings Fescue Cultivars.....55

Table 17C- Poa Annua Ratings of Strong Creeping Red Fescue Cultivars.....56

Table 17D- Poa Annua Ratings of Hard Fescue Cultivars.....56

Table 18A- Crabgrass Ratings of Fineleaf Fescue Cultivars.....57

Table 18B- Crabgrass Ratings of Chewings Fescue Cultivars.....58

Table 18C- Crabgrass Ratings of Strong Creeping Red Fescue Cultivars.....59

Table 18D- Crabgrass Ratings of Hard Fescue Cultivars.....59

Table 19A- Percent Poa Annua Ratings of Fineleaf Fescue Cultivars.....60

Table 19B- Percent Poa Annua Ratings of Chewings Fescue Cultivars.....61

Table 19C- Percent Poa Annua Ratings of Strong Creeping Red Fescue Cultivars.....62

Table 19D- Percent Poa Annua Ratings of Hard Fescue Cultivars.....62

Table 20A- Red Thread Ratings of Fineleaf Fescue Cultivars at Puyallup, WA.....63

Table 20B- Red Thread Ratings of Chewings Fescue Cultivars at Puyallup, WA.....64

Table 20C- Red Thread Ratings of Strong Creeping Red Fescue  
Cultivars at Puyallup, WA.....65

Table 20D- Red Thread Ratings of Hard Fescue  
Cultivars at Puyallup, WA.....65

## 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 2002 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>.

# 2008 NATIONAL FINELEAF FESCUE TEST

## LOCATIONS SUBMITTING DATA FOR 2012

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Palo Alto (Non-Mowed)	CA8
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Maryland	College Park	MD1
Minnesota	St. Paul	MN1
Minnesota	St. Paul (Traffic)	MN2
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
Pennsylvania	University Park	PA1
Rhode Island	Kingston	RI1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Puyallup	WA3
Wisconsin	Madison (Traffic)	WI1

2008 NATIONAL FINELEAF FESCUE TEST

Entries and Sponsors

Entry No.	Name	Species	Sponsor
* 1	Treazure II	chewings	Standard entry
* 2	Boreal	strong creeping red	Standard entry
* 3	Spartan II	hard	Standard entry
* 4	Intrigue 2	chewings	Turf Merchants
* 5	Zodiac	chewings	Standard entry
* 6	Navigator II (MVS-OS-1)	strong creeping red	Mountain View Seeds
* 7	Beacon (Z6300)	hard	Mountain View Seeds
* 8	Radar (MVS-FRC-101)	chewings	Mountain View Seeds
* 9	Fairmont (TCD)	chewings	Dye Seed Ranch
10	PSG 50C3	chewings	Seed Research of Oregon
* 11	Sword (NC-HF1)	hard	Columbia River Seeds
* 12	Epic	strong creeping red	Standard entry
* 13	Gotham	hard	John Deere Landscapes
* 14	Lacrosse	chewings	John Deere Landscapes
15	Rosecity (IS-FRR-51)	strong creeping red	DLF International Seeds
16	Chantilly (IS-FRR-62)	strong creeping red	DLF International Seeds
* 17	Wrigley 2 (IS-FRC-35)	chewings	DLF International Seeds
* 18	Longfellow 3 (IS-FRC-33)	Chewings	DLF International Seeds
* 19	Cascade	chewings	Standard entry
* 20	Aberdeen	strong creeping red	Brett-Young Seeds
21	PST-4CSD	chewings	Silverton Seed
22	PST-4HES	hard	Pure-Seed Testing
* 23	Bighorn GT (ST-4BU3)	blue hard	Pure Seed
* 24	Shademaster III (PST-48Y7)	strong creeping red	The Scotts Company
25	PSG-5RM	strong creeping red	The Scotts Co.

\* COMMERCIALY AVAILABLE IN THE USA IN 2013.



TABLE A.

2012 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2008 NATIONAL FINELEAF FESCUE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA8	LOAM	6.6-7.0	61-150	0-150	3.1-4.0	FULL SUN	4.1+	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	1.1-2.0	FULL SUN	2.6-3.0	NO IRRIGATION
IL2	SILTY CLAY LOAM	6.1-6.5	0-60	151-240	1.1-2.0	DENSE SHADE	2.1-2.5	NO IRRIGATION
MD1	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
MN1	SILTY CLAY LOAM	6.6-7.0	151-270	0-150	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MN2	SILTY CLAY LOAM	6.6-7.0	151-270	0-150	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
NE1	SILTY CLAY AND CLAY	6.6-7.0	0-60	501+	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	271-450	241-375	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
PA1	SILT LOAM AND SILT	6.6-7.0	151-270	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
RI1	SILT LOAM AND SILT	-	-	-	1.1-2.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
UT1	-	-	-	-	-	-	-	-
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	0-150	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
WA3	SAND	4.6-5.5	61-150	151-240	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2012

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
CA8	X	X	X	X	X	X	X	X	X	X	X				
IL1				X	X	X		X	X	X			X	X	
IL2			X	X	X	X	X	X	X	X	X				
MD1				X	X	X	X	X	X	X	X				
MN1				X	X	X	X	X	X				X		
MN2				X	X	X	X	X	X				X		
NE1				X	X	X	X	X	X	X			X	X	
NJ2				X	X	X	X	X	X	X			X		
PA1					X	X	X	X	X	X					
RI1				X	X	X	X	X	X	X	X		X	X	
UT1						X	X	X	X	X			X	X	
VA1			X		X	X	X	X	X	X			X		X
WA3		X	X	X	X	X	X	X	X	X	X	X	X	X	
WI1					X	X	X	X	X	X	X				

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2012

LOCATION	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	DOLLAR SPOT	RED THREAD	POA ANNUA	CRABGRASS RATINGS	PERCENT POA ANNUA	RED THREAD RATINGS				
										MAY	OCTOBER	NOVEMBER	DECEMBER	
CA8														
IL1			X											
IL2		X	X											
MD1						X			X					
MN1	X	X	X											
MN2	X	X	X											
NE1		X												
NJ2			X		X	X								
PA1						X								
RI1			X			X	X	X						
UT1		X												
VA1														
WA3				X							X	X	X	X
* WI1														

\* MORE TRAFFIC DATA FOR "WI1" IN TABLE 6.

TABLE 1A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
 2012 DATA

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

NAME	PA1	NJ1	VA1	IL1	NE1	UT1	MEAN
* NAVIGATOR II (MVS-OS-1)	6.2	5.5	6.6	5.4	3.5	6.6	5.6
PSG-5RM	6.6	5.7	6.3	5.1	2.8	6.1	5.4
* SHADEMASTER III (PST-48Y7)	5.6	5.2	6.2	5.2	3.4	6.5	5.3
* ZODIAC	6.2	4.9	6.2	5.0	3.0	6.1	5.2
* LONGFELLOW 3 (IS-FRC-33)	6.1	4.8	6.2	4.9	3.0	6.0	5.1
CHANTILLY (IS-FRR-62)	5.6	5.2	6.1	4.6	3.1	6.1	5.1
PSG 50C3	6.5	4.8	6.0	5.1	2.5	5.8	5.1
ROSECITY (IS-FRR-51)	5.6	4.7	6.0	5.0	3.1	6.1	5.1
* RADAR (MVS-FRC-101)	5.9	4.7	6.1	4.6	3.0	5.9	5.0
* FAIRMONT (TCD)	6.3	4.5	6.0	5.0	2.6	5.8	5.0
* INTRIGUE 2	5.8	4.4	6.0	4.9	2.8	5.9	5.0
* WRIGLEY 2 (IS-FRC-35)	5.8	4.5	6.0	4.7	2.8	5.8	4.9
* TREAZURE II	5.8	4.6	5.9	4.6	2.8	5.8	4.9
PST-4CSD	5.0	4.9	5.8	4.2	3.0	5.9	4.8
* LACROSSE	5.3	4.0	5.7	4.4	2.7	5.6	4.6
* EPIC	4.5	3.4	5.6	4.7	3.1	5.9	4.5
* CASCADE	4.5	4.0	5.6	4.2	3.0	5.8	4.5
* GOTHAM	4.0	5.3	5.8	2.7	3.3	5.9	4.5
PST-4HES	3.7	5.1	5.8	2.7	3.5	6.0	4.5
* BEACON (Z6300)	4.1	5.1	5.9	2.6	3.3	5.8	4.5
* SWORD (NC-HF1)	4.0	5.8	5.8	2.2	3.2	5.8	4.5
* ABERDEEN	4.0	3.4	5.6	4.4	3.3	6.0	4.4
* SPARTAN II	3.4	5.3	5.7	1.9	3.5	5.9	4.3
* BIGHORN GT (PST-4BU3)	2.8	4.1	5.7	2.6	3.9	6.1	4.2
* BOREAL	2.8	3.1	5.1	3.5	3.2	5.7	3.9
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	11.5	12.4	9.8	13.9	18.7	9.7	12.1

\*/ COMMERCIALY AVAILABLE IN THE USA IN 2013

\*\*/ 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](http://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 \*/  
 2012 DATA

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

NAME	PA1	NJ1	VA1	IL1	NE1	UT1	MEAN
ZODIAC	6.2	4.9	6.2	5.0	3.0	6.1	5.2
LONGFELLOW 3 (IS-FRC-33)	6.1	4.8	6.2	4.9	3.0	6.0	5.1
PSG 50C3	6.5	4.8	6.0	5.1	2.5	5.8	5.1
RADAR (MVS-FRC-101)	5.9	4.7	6.1	4.6	3.0	5.9	5.0
FAIRMONT (TCD)	6.3	4.5	6.0	5.0	2.6	5.8	5.0
INTRIGUE 2	5.8	4.4	6.0	4.9	2.8	5.9	5.0
WRIGLEY 2 (IS-FRC-35)	5.8	4.5	6.0	4.7	2.8	5.8	4.9
TREAZURE II	5.8	4.6	5.9	4.6	2.8	5.8	4.9
PST-4CSD	5.0	4.9	5.8	4.2	3.0	5.9	4.8
LACROSSE	5.3	4.0	5.7	4.4	2.7	5.6	4.6
CASCADE	4.5	4.0	5.6	4.2	3.0	5.8	4.5
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	10.1	12.7	9.7	12.4	20.5	9.9	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 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](http://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 1C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*/  
2012 DATA

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

NAME	PA1	NJ1	VA1	IL1	NE1	UT1	MEAN
NAVIGATOR II (MVS-0S-1)	6.2	5.5	6.6	5.4	3.5	6.6	5.6
PSG-5RM	6.6	5.7	6.3	5.1	2.8	6.1	5.4
SHADEMASTER III (PST-48Y7)	5.6	5.2	6.2	5.2	3.4	6.5	5.3
CHANTILLY (IS-FRR-62)	5.6	5.2	6.1	4.6	3.1	6.1	5.1
ROSECITY (IS-FRR-51)	5.6	4.7	6.0	5.0	3.1	6.1	5.1
EPIC	4.5	3.4	5.6	4.7	3.1	5.9	4.5
ABERDEEN	4.0	3.4	5.6	4.4	3.3	6.0	4.4
BOREAL	2.8	3.1	5.1	3.5	3.2	5.7	3.9
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	11.4	12.9	9.8	12.2	18.2	9.5	11.8

TABLE 1D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*/  
2012 DATA

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

NAME	PA1	NJ1	VA1	IL1	NE1	UT1	MEAN
GOTHAM	4.0	5.3	5.8	2.7	3.3	5.9	4.5
PST-4HES	3.7	5.1	5.8	2.7	3.5	6.0	4.5
BEACON (Z6300)	4.1	5.1	5.9	2.6	3.3	5.8	4.5
SWORD (NC-HF1)	4.0	5.8	5.8	2.2	3.2	5.8	4.5
SPARTAN II	3.4	5.3	5.7	1.9	3.5	5.9	4.3
BIGHORN GT (PST-4BU3)	2.8	4.1	5.7	2.6	3.9	6.1	4.2
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	15.8	11.4	10.1	23.7	16.9	9.8	13.2

\*/ 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](http://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 2A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
 2012 DATA

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

NAME	RI1	MN1	MEAN
RADAR (MVS-FRC-101)	8.5	7.0	7.7
FAIRMONT (TCD)	8.3	6.8	7.5
LONGFELLOW 3 (IS-FRC-33)	8.2	6.8	7.5
PSG 50C3	8.4	6.5	7.4
ZODIAC	8.1	6.6	7.3
WRIGLEY 2 (IS-FRC-35)	7.6	6.4	7.0
TREAZURE II	7.6	6.2	6.9
INTRIGUE 2	7.3	6.3	6.8
LACROSSE	7.2	6.4	6.8
BEACON (Z6300)	7.6	5.7	6.6
PSG-5RM	7.1	5.0	6.1
NAVIGATOR II (MVS-OS-1)	6.2	5.3	5.7
CHANTILLY (IS-FRR-62)	6.4	5.0	5.7
SPARTAN II	6.6	4.7	5.7
SWORD (NC-HF1)	6.9	4.3	5.6
ROSECITY (IS-FRR-51)	5.6	5.0	5.3
CASCADE	5.1	5.0	5.1
BIGHORN GT (PST-4BU3)	4.8	5.1	4.9
GOTHAM	5.8	4.1	4.9
PST-4HES	5.5	4.3	4.9
EPIC	4.2	5.1	4.7
PST-4CSD	5.2	4.1	4.7
SHADEMASTER III (PST-48Y7)	4.7	4.2	4.4
ABERDEEN	3.8	4.8	4.3
BOREAL	2.0	3.5	2.7
LSD VALUE	0.9	0.9	0.9
C.V. (%)	9.2	10.8	9.9

\*/ 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](http://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 2B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
 2012 DATA

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

NAME	RI1	MN1	MEAN
RADAR (MVS-FRC-101)	8.5	7.0	7.7
FAIRMONT (TCD)	8.3	6.8	7.5
LONGFELLOW 3 (IS-FRC-33)	8.2	6.8	7.5
PSG 50C3	8.4	6.5	7.4
ZODIAC	8.1	6.6	7.3
WRIGLEY 2 (IS-FRC-35)	7.6	6.4	7.0
TREAZURE II	7.6	6.2	6.9
INTRIGUE 2	7.3	6.3	6.8
LACROSSE	7.2	6.4	6.8
CASCADE	5.1	5.0	5.1
PST-4CSD	5.2	4.1	4.7
LSD VALUE	0.9	0.9	0.9
C.V. (%)	7.9	9.4	8.5

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO [WWW.NTEP.ORG/LPI\\_Q&A.PDF](http://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 2C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2012 DATA

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

NAME	RI1	MN1	MEAN
PSG-5RM	7.1	5.0	6.1
NAVIGATOR II (MVS-OS-1)	6.2	5.3	5.7
CHANTILLY (IS-FRR-62)	6.4	5.0	5.7
ROSECITY (IS-FRR-51)	5.6	5.0	5.3
EPIC	4.2	5.1	4.7
SHADEMASTER III (PST-48Y7)	4.7	4.2	4.4
ABERDEEN	3.8	4.8	4.3
BOREAL	2.0	3.5	2.7
LSD VALUE	0.9	0.9	0.9
C.V. (%)	11.6	12.2	11.9

TABLE 2D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2012 DATA

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

NAME	RI1	MN1	MEAN
BEACON (Z6300)	7.6	5.7	6.6
SPARTAN II	6.6	4.7	5.7
SWORD (NC-HF1)	6.9	4.3	5.6
BIGHORN GT (PST-4BU3)	4.8	5.1	4.9
GOTHAM	5.8	4.1	4.9
PST-4HES	5.5	4.3	4.9
LSD VALUE	0.9	0.9	0.9
C.V. (%)	9.4	12.4	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 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](http://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 3A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2012 DATA

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

NAME	MD1	WA3	MEAN
SPARTAN II	6.0	6.0	6.0
BEACON (Z6300)	5.8	5.9	5.8
SWORD (NC-HF1)	5.6	5.7	5.7
BIGHORN GT (PST-4BU3)	5.5	5.7	5.6
PST-4HES	5.1	5.5	5.3
GOTHAM	5.0	5.4	5.2
RADAR (MVS-FRC-101)	4.4	5.2	4.8
LONGFELLOW 3 (IS-FRC-33)	4.2	5.0	4.6
ZODIAC	4.0	5.0	4.5
NAVIGATOR II (MVS-OS-1)	3.7	5.0	4.4
CHANTILLY (IS-FRR-62)	3.8	4.8	4.3
TREAZURE II	3.8	4.7	4.3
WRIGLEY 2 (IS-FRC-35)	3.8	4.7	4.2
LACROSSE	3.7	4.6	4.2
INTRIGUE 2	3.6	4.7	4.2
FAIRMONT (TCD)	3.6	4.6	4.1
PSG-5RM	3.4	4.7	4.0
PSG 50C3	3.5	4.6	4.0
PST-4CSD	3.4	4.5	4.0
CASCADE	3.4	4.5	4.0
SHADEMASTER III (PST-48Y7)	3.2	4.6	3.9
ROSECITY (IS-FRR-51)	3.2	4.5	3.9
ABERDEEN	3.2	4.4	3.8
EPIC	2.9	4.2	3.6
BOREAL	2.9	4.0	3.5
LSD VALUE	0.9	0.9	0.9
C.V. (%)	14.4	11.8	13.0

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO [WWW.NTEP.ORG/LPI\\_Q&A.PDF](http://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 3B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
 2012 DATA

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

NAME	MD1	WA3	MEAN
RADAR (MVS-FRC-101)	4.4	5.2	4.8
LONGFELLOW 3 (IS-FRC-33)	4.2	5.0	4.6
ZODIAC	4.0	5.0	4.5
TREAZURE II	3.8	4.7	4.3
WRIGLEY 2 (IS-FRC-35)	3.8	4.7	4.2
LACROSSE	3.7	4.6	4.2
INTRIGUE 2	3.6	4.7	4.2
FAIRMONT (TCD)	3.6	4.6	4.1
PSG 50C3	3.5	4.6	4.0
PST-4CSD	3.4	4.5	4.0
CASCADE	3.4	4.5	4.0
LSD VALUE	0.9	0.9	0.9
C.V. (%)	15.4	12.2	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 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](http://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 3C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2012 DATA

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

NAME	MD1	WA3	MEAN
NAVIGATOR II (MVS-OS-1)	3.7	5.0	4.4
CHANTILLY (IS-FRR-62)	3.8	4.8	4.3
PSG-5RM	3.4	4.7	4.0
SHADEMASTER III (PST-48Y7)	3.2	4.6	3.9
ROSECITY (IS-FRR-51)	3.2	4.5	3.9
ABERDEEN	3.2	4.4	3.8
EPIC	2.9	4.2	3.6
BOREAL	2.9	4.0	3.5
LSD VALUE	0.9	0.9	0.9
C.V. (%)	17.6	12.8	14.9

TABLE 3D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 \*/  
2012 DATA

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

NAME	MD1	WA3	MEAN
SPARTAN II	6.0	6.0	6.0
BEACON (Z6300)	5.8	5.9	5.8
SWORD (NC-HF1)	5.6	5.7	5.7
BIGHORN GT (PST-4BU3)	5.5	5.7	5.6
PST-4HES	5.1	5.5	5.3
GOTHAM	5.0	5.4	5.2
LSD VALUE	0.9	0.9	0.9
C.V. (%)	10.5	10.2	10.4

\*/ 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](http://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 4A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS IN THE  
2008 NATIONAL FINELEAF FESCUE TEST GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2012 DATA

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

NAME	PERCENT	PERCENT	QUALITY RATINGS									MEAN
	COVER	COVER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
	SUMMER	FALL										
GOTHAM	93.0	81.7	6.7	7.0	7.0	8.0	8.7	8.7	7.7	7.7	7.3	7.6
BIGHORN GT (PST-4BU3)	88.0	81.3	7.0	7.3	8.0	8.0	8.3	8.0	7.7	6.3	7.0	7.5
BEACON (Z6300)	79.3	77.7	7.0	6.7	7.3	7.3	8.0	8.0	7.0	6.3	7.0	7.2
SPARTAN II	90.3	77.0	5.7	6.7	7.0	8.3	8.0	7.7	7.0	6.7	6.7	7.1
PSG 50C3	75.3	66.7	6.7	7.0	8.0	7.3	6.0	5.3	5.3	5.3	5.3	6.3
RADAR (MVS-FRC-101)	67.7	63.3	6.0	6.3	7.7	7.0	6.3	6.0	5.7	5.7	6.0	6.3
SWORD (NC-HF1)	64.0	59.0	5.3	6.0	5.7	7.0	7.0	6.7	6.0	6.0	6.0	6.2
PST-4HES	75.0	73.0	5.3	5.0	6.3	6.7	6.3	6.0	6.3	5.7	6.0	6.0
ZODIAC	66.7	50.0	5.7	6.3	8.0	7.0	6.0	5.3	5.3	4.7	5.3	6.0
FAIRMONT (TCD)	67.7	50.3	5.0	6.0	6.7	6.7	6.3	6.0	5.7	5.0	5.3	5.9
CASCADE	60.3	58.3	4.7	5.7	6.3	6.0	5.7	6.0	5.3	5.7	6.0	5.7
TREAZURE II	54.0	51.7	5.7	5.7	6.0	5.7	5.0	5.0	5.0	5.0	5.7	5.4
LONGFELLOW 3 (IS-FRC-33)	63.7	46.0	5.3	5.3	6.0	6.3	5.0	5.7	4.7	4.7	4.7	5.3
WRIGLEY 2 (IS-FRC-35)	44.7	45.7	5.7	6.0	6.7	5.7	4.3	4.7	4.3	4.7	4.3	5.1
PSG-5RM	59.0	31.0	5.0	5.0	5.0	6.0	5.7	4.7	3.7	3.7	3.7	4.7
ABERDEEN	53.3	39.3	4.0	4.3	4.7	5.0	5.0	5.3	4.0	4.7	4.3	4.6
CHANTILLY (IS-FRR-62)	44.7	40.7	4.3	4.7	5.0	5.7	4.7	5.0	4.0	4.0	4.3	4.6
ROSECITY (IS-FRR-51)	44.7	34.0	4.7	5.0	5.3	5.0	4.7	4.3	3.7	3.7	4.0	4.5
INTRIGUE 2	46.0	32.3	4.7	5.0	6.0	4.3	4.0	4.3	3.3	3.7	4.3	4.4
NAVIGATOR II (MVS-OS-1)	48.3	30.0	4.7	5.0	5.7	6.0	5.0	3.0	3.0	3.3	3.7	4.4
EPIC	35.7	31.0	4.0	4.3	4.3	5.0	4.3	3.7	3.3	3.3	3.7	4.0
SHADEMASTER III (PST-48Y7)	35.7	27.0	4.0	4.7	5.3	4.7	4.0	3.7	3.0	3.0	3.0	3.9
BOREAL	25.3	19.7	3.7	4.7	4.0	4.0	3.7	4.0	3.0	3.0	3.0	3.7
LACROSSE	27.7	18.3	3.0	4.0	5.0	4.0	2.7	3.0	2.3	2.3	3.0	3.3
PST-4CSD	17.7	13.3	3.3	4.7	5.3	3.0	2.7	3.0	2.3	2.7	2.7	3.3
LSD VALUE	36.0	28.5	1.8	2.0	2.1	2.2	2.1	1.9	1.9	1.7	2.1	1.6
C.V. (%)	34.9	35.5	19.8	18.7	19.0	20.8	23.5	22.0	24.3	22.2	24.6	18.4

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

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

TABLE 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2012 DATA

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

NAME	PERCENT	PERCENT	QUALITY RATINGS									MEAN
	COVER SUMMER	COVER FALL	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PSG 50C3	75.3	66.7	6.7	7.0	8.0	7.3	6.0	5.3	5.3	5.3	5.3	6.3
RADAR (MVS-FRC-101)	67.7	63.3	6.0	6.3	7.7	7.0	6.3	6.0	5.7	5.7	6.0	6.3
ZODIAC	66.7	50.0	5.7	6.3	8.0	7.0	6.0	5.3	5.3	4.7	5.3	6.0
FAIRMONT (TCD)	67.7	50.3	5.0	6.0	6.7	6.7	6.3	6.0	5.7	5.0	5.3	5.9
CASCADE	60.3	58.3	4.7	5.7	6.3	6.0	5.7	6.0	5.3	5.7	6.0	5.7
TREAZURE II	54.0	51.7	5.7	5.7	6.0	5.7	5.0	5.0	5.0	5.0	5.7	5.4
LONGFELLOW 3 (IS-FRC-33)	63.7	46.0	5.3	5.3	6.0	6.3	5.0	5.7	4.7	4.7	4.7	5.3
WRIGLEY 2 (IS-FRC-35)	44.7	45.7	5.7	6.0	6.7	5.7	4.3	4.7	4.3	4.7	4.3	5.1
INTRIGUE 2	46.0	32.3	4.7	5.0	6.0	4.3	4.0	4.3	3.3	3.7	4.3	4.4
LACROSSE	27.7	18.3	3.0	4.0	5.0	4.0	2.7	3.0	2.3	2.3	3.0	3.3
PST-4CSD	17.7	13.3	3.3	4.7	5.3	3.0	2.7	3.0	2.3	2.7	2.7	3.3
LSD VALUE	47.2	39.2	1.6	1.9	3.0	2.1	2.5	2.8	2.3	2.1	3.1	2.0
C.V. (%)	40.6	42.2	18.0	16.7	20.4	20.0	26.3	26.6	26.8	24.7	29.3	20.1

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 4C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2012 DATA

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

NAME	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS									MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PSG-5RM	59.0	31.0	5.0	5.0	5.0	6.0	5.7	4.7	3.7	3.7	3.7	4.7
ABERDEEN	53.3	39.3	4.0	4.3	4.7	5.0	5.0	5.3	4.0	4.7	4.3	4.6
CHANTILLY (IS-FRR-62)	44.7	40.7	4.3	4.7	5.0	5.7	4.7	5.0	4.0	4.0	4.3	4.6
ROSECITY (IS-FRR-51)	44.7	34.0	4.7	5.0	5.3	5.0	4.7	4.3	3.7	3.7	4.0	4.5
NAVIGATOR II (MVS-OS-1)	48.3	30.0	4.7	5.0	5.7	6.0	5.0	3.0	3.0	3.3	3.7	4.4
EPIC	35.7	31.0	4.0	4.3	4.3	5.0	4.3	3.7	3.3	3.3	3.7	4.0
SHADEMASTER III (PST-48Y7)	35.7	27.0	4.0	4.7	5.3	4.7	4.0	3.7	3.0	3.0	3.0	3.9
BOREAL	25.3	19.7	3.7	4.7	4.0	4.0	3.7	4.0	3.0	3.0	3.0	3.7
LSD VALUE	40.2	36.7	2.8	2.7	2.6	2.9	2.4	2.1	2.4	1.8	1.9	2.1
C.V. (%)	38.9	44.6	24.6	20.5	21.2	22.5	21.9	23.1	26.4	21.4	21.3	19.1

TABLE 4D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2012 DATA

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

NAME	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS									MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
GOTHAM	93.0	81.7	6.7	7.0	7.0	8.0	8.7	8.7	7.7	7.7	7.3	7.6
BIGHORN GT (PST-4BU3)	88.0	81.3	7.0	7.3	8.0	8.0	8.3	8.0	7.7	6.3	7.0	7.5
BEACON (Z6300)	79.3	77.7	7.0	6.7	7.3	7.3	8.0	8.0	7.0	6.3	7.0	7.2
SPARTAN II	90.3	77.0	5.7	6.7	7.0	8.3	8.0	7.7	7.0	6.7	6.7	7.1
SWORD (NC-HF1)	64.0	59.0	5.3	6.0	5.7	7.0	7.0	6.7	6.0	6.0	6.0	6.2
PST-4HES	75.0	73.0	5.3	5.0	6.3	6.7	6.3	6.0	6.3	5.7	6.0	6.0
LSD VALUE	29.5	27.7	1.8	2.8	1.6	2.6	1.6	2.0	2.7	2.0	2.8	1.5
C.V. (%)	16.6	16.3	14.2	19.1	11.1	14.4	10.2	13.1	16.3	13.8	17.1	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 5A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2012 DATA

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

NAME	GENETIC COLOR	PERCENT COVER			QUALITY RATINGS						
		SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	MEAN
LONGFELLOW 3 (IS-FRC-33)	5.7	86.7	86.7	95.3	6.7	6.0	6.3	6.3	5.7	5.3	6.1
TREAZURE II	5.0	88.3	86.7	94.7	7.3	6.3	6.0	6.3	5.7	5.0	6.1
FAIRMONT (TCD)	6.7	88.3	83.3	92.0	6.7	6.0	5.7	6.0	5.3	6.0	5.9
ZODIAC	6.0	88.3	83.3	95.7	6.3	6.0	5.7	6.3	5.3	5.7	5.9
INTRIGUE 2	4.3	88.3	86.7	97.0	6.3	6.3	5.7	5.7	5.3	5.7	5.8
PSG 50C3	7.0	86.7	88.3	96.0	5.7	5.3	6.3	6.7	5.7	5.3	5.8
BEACON (Z6300)	4.0	88.3	88.3	95.3	5.7	5.7	5.0	6.0	5.0	5.3	5.4
WRIGLEY 2 (IS-FRC-35)	4.7	88.3	85.0	97.0	5.7	5.3	5.7	5.7	5.3	5.0	5.4
LACROSSE	6.3	80.0	85.0	97.0	6.0	4.7	5.3	5.3	5.0	4.7	5.2
RADAR (MVS-FRC-101)	7.0	80.0	85.0	91.7	5.3	5.3	5.3	5.7	4.3	5.3	5.2
CASCADE	5.7	85.0	80.0	94.0	5.3	5.0	5.0	4.7	5.0	4.3	4.9
PSG-5RM	5.0	85.0	83.3	96.7	6.0	4.7	4.7	5.3	4.7	4.3	4.9
CHANTILLY (IS-FRR-62)	4.7	83.3	80.0	91.7	6.0	5.0	5.0	5.0	4.3	3.7	4.8
BIGHORN GT (PST-4BU3)	8.0	81.7	78.3	95.0	5.0	4.3	4.0	5.0	4.7	5.0	4.7
GOTHAM	4.3	71.7	75.0	89.7	5.3	4.7	4.7	4.7	4.3	4.7	4.7
SPARTAN II	4.3	63.3	73.3	88.0	4.7	4.7	4.3	5.0	4.7	5.0	4.7
ROSECITY (IS-FRR-51)	3.0	78.3	80.0	83.0	5.7	4.7	4.7	5.0	4.3	3.3	4.6
SWORD (NC-HF1)	4.7	68.3	70.0	93.0	5.0	5.0	4.7	4.7	3.7	4.3	4.6
PST-4HES	4.0	66.7	71.7	92.3	4.0	4.0	4.3	4.7	4.3	4.0	4.2
EPIC	3.0	73.3	75.0	81.0	4.7	4.0	4.3	4.3	3.7	3.7	4.1
NAVIGATOR II (MVS-OS-1)	4.7	60.0	78.3	80.7	5.0	4.0	4.0	4.3	3.7	3.3	4.1
ABERDEEN	2.7	66.7	73.3	85.0	4.7	3.7	4.0	4.0	3.3	3.0	3.8
BOREAL	1.7	63.3	60.0	95.3	4.0	4.3	3.7	3.0	3.0	2.7	3.4
PST-4CSD	4.3	46.7	65.0	89.3	3.7	3.0	3.7	4.0	2.7	3.7	3.4
SHADEMASTER III (PST-48Y7)	5.0	61.7	71.7	83.7	3.3	3.0	3.0	3.7	3.0	3.0	3.2
LSD VALUE	0.8	20.1	21.2	34.1	1.7	2.0	1.4	1.8	2.1	1.2	1.3
C.V. (%)	10.5	14.7	12.1	10.9	17.6	20.9	16.9	18.6	22.7	16.5	15.3

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

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



TABLE 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2012 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS						MEAN
					APR	MAY	JUN	JUL	AUG	SEP	
LONGFELLOW 3 (IS-FRC-33)	5.7	86.7	86.7	95.3	6.7	6.0	6.3	6.3	5.7	5.3	6.1
TREAZURE II	5.0	88.3	86.7	94.7	7.3	6.3	6.0	6.3	5.7	5.0	6.1
FAIRMONT (TCD)	6.7	88.3	83.3	92.0	6.7	6.0	5.7	6.0	5.3	6.0	5.9
ZODIAC	6.0	88.3	83.3	95.7	6.3	6.0	5.7	6.3	5.3	5.7	5.9
INTRIGUE 2	4.3	88.3	86.7	97.0	6.3	6.3	5.7	5.7	5.3	5.7	5.8
PSG 50C3	7.0	86.7	88.3	96.0	5.7	5.3	6.3	6.7	5.7	5.3	5.8
WRIGLEY 2 (IS-FRC-35)	4.7	88.3	85.0	97.0	5.7	5.3	5.7	5.7	5.3	5.0	5.4
LACROSSE	6.3	80.0	85.0	97.0	6.0	4.7	5.3	5.3	5.0	4.7	5.2
RADAR (MVS-FRC-101)	7.0	80.0	85.0	91.7	5.3	5.3	5.3	5.7	4.3	5.3	5.2
CASCADE	5.7	85.0	80.0	94.0	5.3	5.0	5.0	4.7	5.0	4.3	4.9
PST-4CSD	4.3	46.7	65.0	89.3	3.7	3.0	3.7	4.0	2.7	3.7	3.4
LSD VALUE	0.7	16.8	11.9	14.5	2.0	1.7	2.1	1.3	1.4	1.3	1.1
C.V. (%)	8.3	11.6	7.5	5.5	16.9	16.5	16.8	12.4	14.9	12.9	11.8

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

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

TABLE 5C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2012 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS						MEAN
					APR	MAY	JUN	JUL	AUG	SEP	
PSG-5RM	5.0	85.0	83.3	96.7	6.0	4.7	4.7	5.3	4.7	4.3	4.9
CHANTILLY (IS-FRR-62)	4.7	83.3	80.0	91.7	6.0	5.0	5.0	5.0	4.3	3.7	4.8
ROSECITY (IS-FRR-51)	3.0	78.3	80.0	83.0	5.7	4.7	4.7	5.0	4.3	3.3	4.6
EPIC	3.0	73.3	75.0	81.0	4.7	4.0	4.3	4.3	3.7	3.7	4.1
NAVIGATOR II (MVS-OS-1)	4.7	60.0	78.3	80.7	5.0	4.0	4.0	4.3	3.7	3.3	4.1
ABERDEEN	2.7	66.7	73.3	85.0	4.7	3.7	4.0	4.0	3.3	3.0	3.8
BOREAL	1.7	63.3	60.0	95.3	4.0	4.3	3.7	3.0	3.0	2.7	3.4
SHADEMASTER III (PST-48Y7)	5.0	61.7	71.7	83.7	3.3	3.0	3.0	3.7	3.0	3.0	3.2
LSD VALUE	1.1	26.2	12.8	41.2	1.9	2.2	1.6	1.9	2.4	1.1	1.4
C.V. (%)	17.0	16.9	8.8	17.7	19.1	22.5	18.2	21.0	26.4	16.3	16.5

TABLE 5D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2012 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS						MEAN
					APR	MAY	JUN	JUL	AUG	SEP	
BEACON (Z6300)	4.0	88.3	88.3	95.3	5.7	5.7	5.0	6.0	5.0	5.3	5.4
BIGHORN GT (PST-4BU3)	8.0	81.7	78.3	95.0	5.0	4.3	4.0	5.0	4.7	5.0	4.7
GOTHAM	4.3	71.7	75.0	89.7	5.3	4.7	4.7	4.7	4.3	4.7	4.7
SPARTAN II	4.3	63.3	73.3	88.0	4.7	4.7	4.3	5.0	4.7	5.0	4.7
SWORD (NC-HF1)	4.7	68.3	70.0	93.0	5.0	5.0	4.7	4.7	3.7	4.3	4.6
PST-4HES	4.0	66.7	71.7	92.3	4.0	4.0	4.3	4.7	4.3	4.0	4.2
LSD VALUE	0.7	26.6	28.6	16.2	2.2	3.5	1.8	2.6	3.8	2.3	2.4
C.V. (%)	8.1	16.6	15.8	7.1	18.7	29.9	16.7	21.6	33.5	20.3	20.5

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

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

TABLE 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/  
2012 DATA

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

NAME	PERCENT LIVING GROUND COVER TRAFFIC IN MAY-SEPTEMBER			QUALITY RATINGS							MEAN
	JULY	OCTOBER	NOVEMBER	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
NAVIGATOR II (MVS-OS-1)	63.3	61.7	65.7	5.0	5.7	5.0	3.3	4.0	5.7	4.7	4.8
LONGFELLOW 3 (IS-FRC-33)	53.3	80.0	63.0	5.3	6.7	4.0	3.0	4.0	5.7	4.3	4.7
TREAZURE II	53.3	76.7	63.3	5.3	5.7	4.3	3.7	4.3	5.3	4.0	4.7
RADAR (MVS-FRC-101)	53.3	78.3	72.3	5.3	5.7	4.0	3.3	4.3	5.0	4.3	4.6
INTRIGUE 2	50.0	76.7	67.3	5.3	6.0	3.3	3.7	3.7	5.3	4.3	4.5
PSG 50C3	60.0	71.7	67.3	5.3	5.3	4.0	3.7	4.3	4.7	4.3	4.5
WRIGLEY 2 (IS-FRC-35)	53.3	71.7	59.7	5.0	5.7	4.3	3.7	4.0	4.7	4.3	4.5
PSG-5RM	53.3	65.0	65.0	4.7	5.3	4.7	3.3	4.3	5.0	3.3	4.4
FAIRMONT (TCD)	50.0	70.0	71.0	5.3	5.3	3.7	3.3	3.3	4.3	4.0	4.2
PST-4CSD	50.0	58.3	51.7	4.7	5.3	4.0	3.3	3.7	4.0	3.3	4.0
ZODIAC	36.7	66.7	60.3	4.3	5.7	3.7	2.7	3.3	4.3	3.7	4.0
ROSECITY (IS-FRR-51)	43.3	68.3	54.0	4.7	5.3	3.7	3.0	3.3	3.3	3.7	3.9
CHANTILLY (IS-FRR-62)	50.0	70.0	55.0	5.3	5.3	2.3	2.7	3.3	3.3	4.3	3.8
LACROSSE	46.7	60.0	57.7	5.0	5.0	3.3	3.0	3.3	3.7	3.3	3.8
ABERDEEN	30.0	53.3	43.3	3.7	5.0	3.7	2.7	2.7	3.7	3.3	3.5
SPARTAN II	50.0	48.3	41.3	3.7	3.7	3.7	3.3	3.0	4.0	3.0	3.5
SHADEMASTER III (PST-48Y7)	33.3	50.0	46.7	3.7	4.3	3.7	2.3	2.7	4.0	2.7	3.3
EPIC	36.7	33.3	38.0	3.3	3.7	3.3	2.7	2.7	3.7	3.0	3.2
CASCADE	30.0	58.3	30.7	3.7	4.7	3.0	2.3	2.3	3.0	3.0	3.1
BEACON (Z6300)	40.0	40.0	33.7	3.0	4.0	3.0	3.0	2.7	3.0	2.7	3.0
SWORD (NC-HF1)	46.7	43.3	36.7	3.7	3.3	3.7	2.0	2.0	3.7	2.3	3.0
BIGHORN GT (PST-4BU3)	11.7	36.7	22.0	2.7	2.3	2.7	2.0	2.0	3.3	2.3	2.5
PST-4HES	23.3	33.3	23.3	3.0	3.0	2.7	2.3	2.3	2.0	2.3	2.5
BOREAL	11.7	16.7	18.0	2.3	3.0	2.3	2.0	2.0	2.0	2.0	2.2
GOTHAM	11.7	21.7	12.3	2.0	2.3	2.0	2.0	2.0	2.3	2.0	2.1
LSD VALUE	23.2	42.9	17.7	1.1	1.1	1.6	1.0	1.0	1.2	1.2	0.7
C.V. (%)	32.1	37.2	23.1	16.6	15.6	23.1	19.3	19.7	19.4	21.5	11.8

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

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

TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/  
2012 DATA

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

NAME	PERCENT LIVING GROUND COVER TRAFFIC IN MAY-SEPTEMBER			QUALITY RATINGS							MEAN
	JULY	OCTOBER	NOVEMBER	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
LONGFELLOW 3 (IS-FRC-33)	53.3	80.0	63.0	5.3	6.7	4.0	3.0	4.0	5.7	4.3	4.7
TREAZURE II	53.3	76.7	63.3	5.3	5.7	4.3	3.7	4.3	5.3	4.0	4.7
RADAR (MVS-FRC-101)	53.3	78.3	72.3	5.3	5.7	4.0	3.3	4.3	5.0	4.3	4.6
INTRIGUE 2	50.0	76.7	67.3	5.3	6.0	3.3	3.7	3.7	5.3	4.3	4.5
PSG 50C3	60.0	71.7	67.3	5.3	5.3	4.0	3.7	4.3	4.7	4.3	4.5
WRIGLEY 2 (IS-FRC-35)	53.3	71.7	59.7	5.0	5.7	4.3	3.7	4.0	4.7	4.3	4.5
FAIRMONT (TCD)	50.0	70.0	71.0	5.3	5.3	3.7	3.3	3.3	4.3	4.0	4.2
PST-4CSD	50.0	58.3	51.7	4.7	5.3	4.0	3.3	3.7	4.0	3.3	4.0
ZODIAC	36.7	66.7	60.3	4.3	5.7	3.7	2.7	3.3	4.3	3.7	4.0
LACROSSE	46.7	60.0	57.7	5.0	5.0	3.3	3.0	3.3	3.7	3.3	3.8
CASCADE	30.0	58.3	30.7	3.7	4.7	3.0	2.3	2.3	3.0	3.0	3.1
LSD VALUE	35.1	44.1	17.9	1.9	1.2	2.2	1.7	1.3	1.5	2.0	0.8
C.V. (%)	28.2	22.8	16.3	15.7	10.6	21.6	21.5	17.2	17.1	20.2	9.9

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

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

TABLE 6C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/  
2012 DATA

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

NAME	PERCENT LIVING GROUND COVER TRAFFIC IN MAY-SEPTEMBER			QUALITY RATINGS							
	JULY	OCTOBER	NOVEMBER	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
NAVIGATOR II (MVS-OS-1)	63.3	61.7	65.7	5.0	5.7	5.0	3.3	4.0	5.7	4.7	4.8
PSG-5RM	53.3	65.0	65.0	4.7	5.3	4.7	3.3	4.3	5.0	3.3	4.4
ROSECITY (IS-FRR-51)	43.3	68.3	54.0	4.7	5.3	3.7	3.0	3.3	3.3	3.7	3.9
CHANTILLY (IS-FRR-62)	50.0	70.0	55.0	5.3	5.3	2.3	2.7	3.3	3.3	4.3	3.8
ABERDEEN	30.0	53.3	43.3	3.7	5.0	3.7	2.7	2.7	3.7	3.3	3.5
SHADEMASTER III (PST-48Y7)	33.3	50.0	46.7	3.7	4.3	3.7	2.3	2.7	4.0	2.7	3.3
EPIC	36.7	33.3	38.0	3.3	3.7	3.3	2.7	2.7	3.7	3.0	3.2
BOREAL	11.7	16.7	18.0	2.3	3.0	2.3	2.0	2.0	2.0	2.0	2.2
LSD VALUE	21.7	47.6	25.8	1.2	1.3	1.7	1.1	1.2	1.2	1.2	0.7
C.V. (%)	29.8	42.4	28.1	16.1	15.5	24.0	18.8	20.5	17.4	19.0	11.4

TABLE 6D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/  
2012 DATA

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

NAME	PERCENT LIVING GROUND COVER TRAFFIC IN MAY-SEPTEMBER			QUALITY RATINGS							
	JULY	OCTOBER	NOVEMBER	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SPARTAN II	50.0	48.3	41.3	3.7	3.7	3.7	3.3	3.0	4.0	3.0	3.5
BEACON (Z6300)	40.0	40.0	33.7	3.0	4.0	3.0	3.0	2.7	3.0	2.7	3.0
SWORD (NC-HF1)	46.7	43.3	36.7	3.7	3.3	3.7	2.0	2.0	3.7	2.3	3.0
BIGHORN GT (PST-4BU3)	11.7	36.7	22.0	2.7	2.3	2.7	2.0	2.0	3.3	2.3	2.5
PST-4HES	23.3	33.3	23.3	3.0	3.0	2.7	2.3	2.3	2.0	2.3	2.5
GOTHAM	11.7	21.7	12.3	2.0	2.3	2.0	2.0	2.0	2.3	2.0	2.1
LSD VALUE	33.8	56.6	20.3	1.5	2.0	1.7	0.6	1.2	2.1	1.9	1.2
C.V. (%)	54.3	61.1	35.7	23.6	28.5	26.1	14.3	23.5	31.4	31.4	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 7A.

MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2012 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
BOREAL	6.3	6.3	6.7	7.3	7.7	6.3	6.3	6.3	7.3	6.3	6.3	6.7
CHANTILLY (IS-FRR-62)	6.7	6.3	6.7	7.0	7.0	6.3	6.0	6.3	7.3	6.3	6.0	6.5
NAVIGATOR II (MVS-OS-1)	7.0	6.7	6.7	7.3	7.0	6.0	5.7	6.0	6.7	6.3	6.3	6.5
ROSECITY (IS-FRR-51)	6.7	6.3	7.0	7.0	6.7	5.7	5.7	6.3	6.7	5.7	5.7	6.3
TREAZURE II	6.3	6.3	6.0	7.0	6.0	5.7	6.0	6.7	7.3	6.3	6.0	6.3
WRIGLEY 2 (IS-FRC-35)	6.0	6.0	6.3	6.3	6.7	6.3	6.3	6.7	7.0	6.0	6.0	6.3
EPIC	6.3	6.0	6.3	7.0	7.0	6.0	6.0	6.0	6.7	5.7	5.0	6.2
FAIRMONT (TCD)	6.3	6.0	6.7	7.0	6.7	6.0	5.7	6.0	7.0	6.0	5.0	6.2
PSG-5RM	6.3	6.3	6.3	7.0	6.3	5.3	5.7	6.3	7.0	6.0	5.3	6.2
PST-4CSD	6.7	6.7	7.0	6.7	6.0	5.3	5.3	6.0	7.0	6.0	5.3	6.2
PST-4HES	6.0	5.5	6.5	7.0	8.0	6.0	7.0	7.0	7.0	6.0	6.0	6.2
SHADEMASTER III (PST-48Y7)	7.0	6.3	6.7	7.3	6.3	5.7	5.7	5.7	6.3	5.7	5.7	6.2
SWORD (NC-HF1)	6.5	6.0	6.0	7.0	6.5	6.0	6.5	6.0	6.5	5.5	5.5	6.2
ABERDEEN	6.3	6.3	6.3	6.7	6.0	5.7	5.3	5.7	6.7	5.7	5.7	6.0
BEACON (Z6300)	6.0	6.0	6.0	6.0	6.0	5.5	6.0	6.5	7.0	6.0	5.0	6.0
CASCADE	6.7	6.0	6.7	7.0	6.0	5.0	5.0	5.5	6.5	5.5	5.5	6.0
INTRIGUE 2	6.0	6.0	6.3	6.7	5.7	5.0	5.3	6.0	7.0	6.0	5.0	5.9
SPARTAN II	6.0	6.0	6.0	7.0	6.0	5.5	5.5	6.0	6.5	5.5	5.0	5.9
BIGHORN GT (PST-4BU3)	5.7	5.7	6.0	6.3	6.3	5.7	5.7	5.7	6.0	5.3	5.3	5.8
GOTHAM	5.3	5.3	6.3	6.7	6.7	6.0	5.3	5.7	6.3	5.3	5.0	5.8
LACROSSE	6.0	6.0	6.7	6.5	6.0	4.5	4.0	5.0	6.0	5.0	5.0	5.8
ZODIAC	6.0	6.0	6.3	7.0	6.0	5.0	4.7	5.3	6.3	5.3	5.3	5.8
PSG 50C3	6.3	6.0	6.3	6.7	5.7	4.7	4.7	5.3	6.3	5.3	5.0	5.7
RADAR (MVS-FRC-101)	6.3	6.3	6.3	6.3	5.7	5.0	4.3	5.3	6.3	5.3	5.0	5.7
LONGFELLOW 3 (IS-FRC-33)	6.3	6.0	6.3	6.0	6.0	5.0	4.3	5.0	6.3	5.7	5.0	5.6
LSD VALUE	1.1	1.1	2.5	2.6	1.9	2.2	2.6	1.9	1.4	1.8	2.0	1.4
C.V. (%)	7.5	7.0	9.9	10.2	11.1	13.8	17.0	11.7	7.8	10.1	12.3	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 7B.

MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  
 AT PALO ALTO (NON-MOWED), CA 1/  
 2012 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
TREAZURE II	6.3	6.3	6.0	7.0	6.0	5.7	6.0	6.7	7.3	6.3	6.0	6.3
WRIGLEY 2 (IS-FRC-35)	6.0	6.0	6.3	6.3	6.7	6.3	6.3	6.7	7.0	6.0	6.0	6.3
FAIRMONT (TCD)	6.3	6.0	6.7	7.0	6.7	6.0	5.7	6.0	7.0	6.0	5.0	6.2
PST-4CSD	6.7	6.7	7.0	6.7	6.0	5.3	5.3	6.0	7.0	6.0	5.3	6.2
CASCADE	6.7	6.0	6.7	7.0	6.0	5.0	5.0	5.5	6.5	5.5	5.5	6.0
INTRIGUE 2	6.0	6.0	6.3	6.7	5.7	5.0	5.3	6.0	7.0	6.0	5.0	5.9
LACROSSE	6.0	6.0	6.7	6.5	6.0	4.5	4.0	5.0	6.0	5.0	5.0	5.8
ZODIAC	6.0	6.0	6.3	7.0	6.0	5.0	4.7	5.3	6.3	5.3	5.3	5.8
PSG 50C3	6.3	6.0	6.3	6.7	5.7	4.7	4.7	5.3	6.3	5.3	5.0	5.7
RADAR (MVS-FRC-101)	6.3	6.3	6.3	6.3	5.7	5.0	4.3	5.3	6.3	5.3	5.0	5.7
LONGFELLOW 3 (IS-FRC-33)	6.3	6.0	6.3	6.0	6.0	5.0	4.3	5.0	6.3	5.7	5.0	5.6
LSD VALUE	1.2	0.7	1.3	1.5	2.0	1.7	1.7	1.3	0.8	0.8	1.6	1.0
C.V. (%)	7.1	4.8	7.5	8.2	11.6	13.7	15.6	10.7	5.7	7.1	11.5	7.0

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

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

TABLE 7C. MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2012 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/											MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BOREAL	6.3	6.3	6.7	7.3	7.7	6.3	6.3	6.3	7.3	6.3	6.3	6.7
CHANTILLY (IS-FRR-62)	6.7	6.3	6.7	7.0	7.0	6.3	6.0	6.3	7.3	6.3	6.0	6.5
NAVIGATOR II (MVS-OS-1)	7.0	6.7	6.7	7.3	7.0	6.0	5.7	6.0	6.7	6.3	6.3	6.5
ROSECITY (IS-FRR-51)	6.7	6.3	7.0	7.0	6.7	5.7	5.7	6.3	6.7	5.7	5.7	6.3
EPIC	6.3	6.0	6.3	7.0	7.0	6.0	6.0	6.0	6.7	5.7	5.0	6.2
PSG-5RM	6.3	6.3	6.3	7.0	6.3	5.3	5.7	6.3	7.0	6.0	5.3	6.2
SHADEMASTER III (PST-48Y7)	7.0	6.3	6.7	7.3	6.3	5.7	5.7	5.7	6.3	5.7	5.7	6.2
ABERDEEN	6.3	6.3	6.3	6.7	6.0	5.7	5.3	5.7	6.7	5.7	5.7	6.0
LSD VALUE	1.1	1.4	1.8	1.5	1.5	1.9	2.7	1.9	1.6	1.9	2.1	1.2
C.V. (%)	6.9	8.0	10.0	8.1	10.2	12.2	16.6	11.6	9.2	12.4	14.5	7.1

TABLE 7D. MEAN TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2012 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/											MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PST-4HES	6.0	5.5	6.5	7.0	8.0	6.0	7.0	7.0	7.0	6.0	6.0	6.2
SWORD (NC-HF1)	6.5	6.0	6.0	7.0	6.5	6.0	6.5	6.0	6.5	5.5	5.5	6.2
BEACON (Z6300)	6.0	6.0	6.0	6.0	6.0	5.5	6.0	6.5	7.0	6.0	5.0	6.0
SPARTAN II	6.0	6.0	6.0	7.0	6.0	5.5	5.5	6.0	6.5	5.5	5.0	5.9
BIGHORN GT (PST-4BU3)	5.7	5.7	6.0	6.3	6.3	5.7	5.7	5.7	6.0	5.3	5.3	5.8
GOTHAM	5.3	5.3	6.3	6.7	6.7	6.0	5.3	5.7	6.3	5.3	5.0	5.8
LSD VALUE	1.4	1.5	2.0	3.5	1.6	1.8	1.6	1.9	1.2	1.2	1.2	1.0
C.V. (%)	9.1	9.4	11.7	17.8	8.5	10.2	9.8	10.6	6.7	7.3	8.1	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 8A. GENETIC COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	IL1	MN1	NE1	NJ2	RI1	UT1	VA1	WA3	MEAN
BIGHORN GT (PST-4BU3)	5.7	8.0	8.0	5.0	8.7	6.7	7.3	6.0	6.9
SHADEMASTER III (PST-48Y7)	5.7	5.0	7.0	4.7	8.0	7.7	8.3	7.0	6.7
CASCADE	5.7	5.7	7.0	5.7	7.0	7.3	7.0	6.3	6.5
NAVIGATOR II (MVS-OS-1)	5.0	4.7	7.0	5.0	7.3	9.0	7.3	6.0	6.4
PSG-5RM	5.0	5.0	6.7	5.0	7.0	8.3	7.3	7.0	6.4
SPARTAN II	6.0	4.3	6.7	5.7	9.0	6.0	7.3	6.0	6.4
PSG 50C3	6.0	7.0	7.0	5.0	4.7	7.7	6.3	7.0	6.3
RADAR (MVS-FRC-101)	5.0	7.0	6.7	5.0	7.0	7.0	6.3	6.7	6.3
EPIC	5.3	3.0	6.7	5.3	8.3	7.7	7.7	6.7	6.3
FAIRMONT (TCD)	5.3	6.7	6.7	5.3	5.7	7.0	7.3	6.3	6.3
CHANTILLY (IS-FRR-62)	5.3	4.7	6.3	6.0	7.3	7.3	7.0	6.3	6.3
SWORD (NC-HF1)	6.0	4.7	6.7	5.0	8.0	7.0	6.3	6.3	6.3
ZODIAC	5.7	6.0	6.7	6.0	5.7	6.7	7.0	6.3	6.3
GOTHAM	5.7	4.3	6.3	5.0	9.0	6.7	6.7	6.3	6.3
LACROSSE	5.7	6.3	6.7	4.0	6.7	7.0	7.0	6.3	6.2
LONGFELLOW 3 (IS-FRC-33)	6.0	5.7	6.7	5.0	4.3	7.3	6.7	6.7	6.0
PST-4HES	5.3	4.0	7.0	5.3	6.7	6.7	6.7	6.7	6.0
ROSECITY (IS-FRR-51)	5.3	3.0	6.7	4.3	7.7	7.7	7.0	6.7	6.0
BEACON (Z6300)	5.7	4.0	6.3	5.0	7.0	6.3	7.3	6.0	6.0
ABERDEEN	5.0	2.7	6.3	4.0	7.0	7.7	7.3	6.3	5.8
PST-4CSD	4.7	4.3	6.3	5.0	5.7	6.3	6.7	5.7	5.6
BOREAL	5.3	1.7	6.0	5.0	7.0	5.3	7.3	6.3	5.5
TREAZURE II	4.7	5.0	6.0	5.0	6.0	6.3	5.7	5.3	5.5
INTRIGUE 2	4.7	4.3	7.0	4.7	5.3	5.7	6.7	5.3	5.5
WRIGLEY 2 (IS-FRC-35)	4.7	4.7	6.0	4.3	5.0	6.3	6.0	5.7	5.3
LSD VALUE	1.4	0.8	0.7	1.6	1.8	1.1	1.6	0.9	0.5
C.V. (%)	15.6	10.6	6.7	19.5	16.2	10.1	14.5	8.4	13.1

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 8B. GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	IL1	MN1	NE1	NJ2	RI1	UT1	VA1	WA3	MEAN
CASCADE	5.7	5.7	7.0	5.7	7.0	7.3	7.0	6.3	6.5
PSG 50C3	6.0	7.0	7.0	5.0	4.7	7.7	6.3	7.0	6.3
RADAR (MVS-FRC-101)	5.0	7.0	6.7	5.0	7.0	7.0	6.3	6.7	6.3
FAIRMONT (TCD)	5.3	6.7	6.7	5.3	5.7	7.0	7.3	6.3	6.3
ZODIAC	5.7	6.0	6.7	6.0	5.7	6.7	7.0	6.3	6.3
LACROSSE	5.7	6.3	6.7	4.0	6.7	7.0	7.0	6.3	6.2
LONGFELLOW 3 (IS-FRC-33)	6.0	5.7	6.7	5.0	4.3	7.3	6.7	6.7	6.0
PST-4CSD	4.7	4.3	6.3	5.0	5.7	6.3	6.7	5.7	5.6
TREAZURE II	4.7	5.0	6.0	5.0	6.0	6.3	5.7	5.3	5.5
INTRIGUE 2	4.7	4.3	7.0	4.7	5.3	5.7	6.7	5.3	5.5
WRIGLEY 2 (IS-FRC-35)	4.7	4.7	6.0	4.3	5.0	6.3	6.0	5.7	5.3
LSD VALUE	1.5	0.7	0.7	1.8	2.1	1.3	1.2	0.9	0.5
C.V. (%)	17.8	8.1	6.5	22.0	22.5	11.5	11.5	8.9	14.0

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 8C. GENETIC COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								MEAN
	IL1	MN1	NE1	NJ2	RI1	UT1	VA1	WA3	
SHADEMASTER III (PST-48Y7)	5.7	5.0	7.0	4.7	8.0	7.7	8.3	7.0	6.7
NAVIGATOR II (MVS-0S-1)	5.0	4.7	7.0	5.0	7.3	9.0	7.3	6.0	6.4
PSG-5RM	5.0	5.0	6.7	5.0	7.0	8.3	7.3	7.0	6.4
EPIC	5.3	3.0	6.7	5.3	8.3	7.7	7.7	6.7	6.3
CHANTILLY (IS-FRR-62)	5.3	4.7	6.3	6.0	7.3	7.3	7.0	6.3	6.3
ROSECITY (IS-FRR-51)	5.3	3.0	6.7	4.3	7.7	7.7	7.0	6.7	6.0
ABERDEEN	5.0	2.7	6.3	4.0	7.0	7.7	7.3	6.3	5.8
BOREAL	5.3	1.7	6.0	5.0	7.0	5.3	7.3	6.3	5.5
LSD VALUE	1.5	1.0	0.7	1.3	1.6	1.0	0.8	0.7	0.4
C.V. (%)	17.4	17.4	6.9	16.1	11.7	8.5	6.7	7.0	11.0

TABLE 8D. GENETIC COLOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								MEAN
	IL1	MN1	NE1	NJ2	RI1	UT1	VA1	WA3	
BIGHORN GT (PST-4BU3)	5.7	8.0	8.0	5.0	8.7	6.7	7.3	6.0	6.9
SPARTAN II	6.0	4.3	6.7	5.7	9.0	6.0	7.3	6.0	6.4
SWORD (NC-HF1)	6.0	4.7	6.7	5.0	8.0	7.0	6.3	6.3	6.3
GOTHAM	5.7	4.3	6.3	5.0	9.0	6.7	6.7	6.3	6.3
PST-4HES	5.3	4.0	7.0	5.3	6.7	6.7	6.7	6.7	6.0
BEACON (Z6300)	5.7	4.0	6.3	5.0	7.0	6.3	7.3	6.0	6.0
LSD VALUE	0.8	0.7	0.8	1.6	1.6	1.0	2.7	0.9	0.5
C.V. (%)	8.2	8.4	6.9	18.8	12.1	9.5	24.2	9.3	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 9A. SPRING GREENUP RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	IL1	NE1	RI1	UT1	WA3	MEAN
SWORD (NC-HF1)	4.3	5.3	2.7	8.0	5.7	5.2
BIGHORN GT (PST-4BU3)	3.0	5.0	5.0	7.3	5.3	5.1
NAVIGATOR II (MVS-OS-1)	4.7	4.3	4.7	5.0	6.3	5.0
PST-4CSD	4.3	5.0	5.7	4.0	6.0	5.0
PST-4HES	3.3	5.0	3.3	6.7	6.0	4.9
BOREAL	5.0	4.3	.	4.3	5.7	4.8
CASCADE	3.3	5.0	5.3	4.3	6.0	4.8
SHADEMASTER III (PST-48Y7)	3.7	5.0	5.3	4.0	6.0	4.8
SPARTAN II	3.0	5.3	3.0	7.3	5.3	4.8
ROSECITY (IS-FRR-51)	4.0	4.0	4.7	5.3	5.7	4.7
GOTHAM	2.0	5.3	3.3	7.0	6.0	4.7
INTRIGUE 2	5.3	4.0	4.7	4.3	5.0	4.7
FAIRMONT (TCD)	4.3	4.7	3.7	4.3	6.0	4.6
WRIGLEY 2 (IS-FRC-35)	4.0	4.7	4.3	4.7	5.3	4.6
ABERDEEN	4.3	4.0	5.7	2.7	6.0	4.5
ZODIAC	4.3	4.3	3.7	4.7	5.7	4.5
BEACON (Z6300)	1.0	5.0	2.3	8.3	5.3	4.4
EPIC	3.3	4.3	5.3	3.0	6.0	4.4
LACROSSE	3.7	4.7	4.3	4.0	5.3	4.4
RADAR (MVS-FRC-101)	3.7	4.7	3.7	3.7	6.3	4.4
TREAZURE II	5.0	4.3	4.3	2.7	5.7	4.4
CHANTILLY (IS-FRR-62)	4.3	4.0	3.3	4.0	6.0	4.3
LONGFELLOW 3 (IS-FRC-33)	4.0	4.0	4.0	4.3	5.3	4.3
PSG 50C3	3.7	4.3	3.7	4.0	6.0	4.3
PSG-5RM	4.0	4.3	3.3	4.0	6.0	4.3
LSD VALUE	1.6	0.9	1.4	1.8	1.4	0.7
C.V. (%)	26.1	12.0	21.1	23.2	14.9	19.5

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

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

TABLE 9B. SPRING GREENUP RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	IL1	NE1	RI1	UT1	WA3	MEAN
PST-4CSD	4.3	5.0	5.7	4.0	6.0	5.0
CASCADE	3.3	5.0	5.3	4.3	6.0	4.8
INTRIGUE 2	5.3	4.0	4.7	4.3	5.0	4.7
FAIRMONT (TCD)	4.3	4.7	3.7	4.3	6.0	4.6
WRIGLEY 2 (IS-FRC-35)	4.0	4.7	4.3	4.7	5.3	4.6
ZODIAC	4.3	4.3	3.7	4.7	5.7	4.5
LACROSSE	3.7	4.7	4.3	4.0	5.3	4.4
RADAR (MVS-FRC-101)	3.7	4.7	3.7	3.7	6.3	4.4
TREAZURE II	5.0	4.3	4.3	2.7	5.7	4.4
LONGFELLOW 3 (IS-FRC-33)	4.0	4.0	4.0	4.3	5.3	4.3
PSG 50C3	3.7	4.3	3.7	4.0	6.0	4.3
LSD VALUE	1.0	0.7	1.0	1.9	1.1	0.5
C.V. (%)	15.7	10.2	14.6	29.2	11.8	16.8

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 9C. SPRING GREENUP RATINGS OF STRONG CREEPING RED FESCUE FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	IL1	NE1	RI1	UT1	WA3	MEAN
NAVIGATOR II (MVS-0S-1)	4.7	4.3	4.7	5.0	6.3	5.0
BOREAL	5.0	4.3	.	4.3	5.7	4.8
SHADEMASTER III (PST-48Y7)	3.7	5.0	5.3	4.0	6.0	4.8
ROSECITY (IS-FRR-51)	4.0	4.0	4.7	5.3	5.7	4.7
ABERDEEN	4.3	4.0	5.7	2.7	6.0	4.5
EPIC	3.3	4.3	5.3	3.0	6.0	4.4
CHANTILLY (IS-FRR-62)	4.3	4.0	3.3	4.0	6.0	4.3
PSG-5RM	4.0	4.3	3.3	4.0	6.0	4.3
LSD VALUE	1.5	0.9	1.9	1.6	1.0	0.6
C.V. (%)	21.9	12.6	25.0	24.7	10.3	18.8

TABLE 9D. SPRING GREENUP RATINGS OF HARD FESCUE FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	IL1	NE1	RI1	UT1	WA3	MEAN
SWORD (NC-HF1)	4.3	5.3	2.7	8.0	5.7	5.2
BIGHORN GT (PST-4BU3)	3.0	5.0	5.0	7.3	5.3	5.1
PST-4HES	3.3	5.0	3.3	6.7	6.0	4.9
SPARTAN II	3.0	5.3	3.0	7.3	5.3	4.8
GOTHAM	2.0	5.3	3.3	7.0	6.0	4.7
BEACON (Z6300)	1.0	5.0	2.3	8.3	5.3	4.4
LSD VALUE	2.4	1.1	1.5	1.9	2.1	0.8
C.V. (%)	54.3	13.7	27.1	15.8	23.4	23.9

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 10A. LEAF TEXTURE RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	VA1
RADAR (MVS-FRC-101)	8.7
NAVIGATOR II (MVS-0S-1)	8.3
BEACON (Z6300)	8.0
FAIRMONT (TCD)	7.7
LACROSSE	7.7
LONGFELLOW 3 (IS-FRC-33)	7.7
PSG 50C3	7.7
PSG-5RM	7.7
CHANTILLY (IS-FRR-62)	7.3
INTRIGUE 2	7.3
ROSECITY (IS-FRR-51)	7.3
SHADEMASTER III (PST-48Y7)	7.3
ZODIAC	7.3
PST-4HES	7.0
SWORD (NC-HF1)	7.0
BOREAL	6.7
TREAZURE II	6.7
ABERDEEN	6.3
BIGHORN GT (PST-4BU3)	6.3
CASCADE	6.3
PST-4CSD	6.3
SPARTAN II	6.3
EPIC	6.0
WRIGLEY 2 (IS-FRC-35)	6.0
GOTHAM	5.7
LSD VALUE	1.6
C.V. (%)	14.3

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 10B. LEAF TEXTURE RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	VA1
RADAR (MVS-FRC-101)	8.7
FAIRMONT (TCD)	7.7
LACROSSE	7.7
LONGFELLOW 3 (IS-FRC-33)	7.7
PSG 50C3	7.7
INTRIGUE 2	7.3
ZODIAC	7.3
TREAZURE II	6.7
CASCADE	6.3
PST-4CSD	6.3
WRIGLEY 2 (IS-FRC-35)	6.0
LSD VALUE	1.4
C.V. (%)	12.1

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

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



TABLE 10C. LEAF TEXTURE RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	VA1
NAVIGATOR II (MVS-0S-1)	8.3
PSG-5RM	7.7
CHANTILLY (IS-FRR-62)	7.3
ROSECITY (IS-FRR-51)	7.3
SHADEMASTER III (PST-48Y7)	7.3
BOREAL	6.7
ABERDEEN	6.3
EPIC	6.0
LSD VALUE	1.8
C.V. (%)	16.0

TABLE 10D. LEAF TEXTURE RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	VA1
BEACON (Z6300)	8.0
PST-4HES	7.0
SWORD (NC-HF1)	7.0
BIGHORN GT (PST-4BU3)	6.3
SPARTAN II	6.3
GOTHAM	5.7
LSD VALUE	1.7
C.V. (%)	16.1

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

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

TABLE 11A. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MN1
FAIRMONT (TCD)	91.7
RADAR (MVS-FRC-101)	91.7
PSG 50C3	90.0
TREAZURE II	90.0
ZODIAC	90.0
BIGHORN GT (PST-4BU3)	88.3
LACROSSE	88.3
ROSECITY (IS-FRR-51)	88.3
WRIGLEY 2 (IS-FRC-35)	88.3
BEACON (Z6300)	86.7
INTRIGUE 2	86.7
LONGFELLOW 3 (IS-FRC-33)	85.0
PSG-5RM	85.0
ABERDEEN	83.3
CASCADE	83.3
EPIC	83.3
SHADEMASTER III (PST-48Y7)	80.0
NAVIGATOR II (MVS-OS-1)	78.3
CHANTILLY (IS-FRR-62)	76.7
SPARTAN II	65.0
BOREAL	63.3
PST-4HES	63.3
SWORD (NC-HF1)	61.7
GOTHAM	56.7
PST-4CSD	45.0
LSD VALUE	21.6
C.V. (%)	16.9

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

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

TABLE 11B. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MN1
FAIRMONT (TCD)	91.7
RADAR (MVS-FRC-101)	91.7
PSG 50C3	90.0
TREAZURE II	90.0
ZODIAC	90.0
LACROSSE	88.3
WRIGLEY 2 (IS-FRC-35)	88.3
INTRIGUE 2	86.7
LONGFELLOW 3 (IS-FRC-33)	85.0
CASCADE	83.3
PST-4CSD	45.0
LSD VALUE	11.6
C.V. (%)	8.6

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

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

TABLE 11C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MN1
ROSECITY (IS-FRR-51)	88.3
PSG-5RM	85.0
ABERDEEN	83.3
EPIC	83.3
SHADEMASTER III (PST-48Y7)	80.0
NAVIGATOR II (MVS-0S-1)	78.3
CHANTILLY (IS-FRR-62)	76.7
BOREAL	63.3
LSD VALUE	19.9
C.V. (%)	15.5

TABLE 11D. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MN1
BIGHORN GT (PST-4BU3)	88.3
BEACON (Z6300)	86.7
SPARTAN II	65.0
PST-4HES	63.3
SWORD (NC-HF1)	61.7
GOTHAM	56.7
LSD VALUE	34.2
C.V. (%)	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 12A. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	UT1	MEAN
BIGHORN GT (PST-4BU3)	85.0	66.7	93.0	81.6
RADAR (MVS-FRC-101)	90.0	50.0	92.7	77.6
ZODIAC	88.3	56.7	86.7	77.2
SHADEMASTER III (PST-48Y7)	78.3	56.7	93.0	76.0
BEACON (Z6300)	86.7	56.7	83.3	75.6
CASCADE	80.0	56.7	89.7	75.4
PST-4HES	73.3	56.7	96.0	75.3
LONGFELLOW 3 (IS-FRC-33)	90.0	43.3	89.7	74.3
LACROSSE	85.0	46.7	89.7	73.8
ABERDEEN	80.0	40.0	96.0	72.0
SWORD (NC-HF1)	71.7	50.0	92.7	71.4
ROSECITY (IS-FRR-51)	80.0	46.7	86.7	71.1
TREAZURE II	90.0	40.0	83.3	71.1
INTRIGUE 2	88.3	33.3	90.0	70.6
NAVIGATOR II (MVS-OS-1)	85.0	30.0	96.0	70.3
SPARTAN II	73.3	43.3	92.7	69.8
EPIC	81.7	43.3	83.0	69.3
WRIGLEY 2 (IS-FRC-35)	90.0	33.3	83.3	68.9
FAIRMONT (TCD)	90.0	28.3	86.3	68.2
PST-4CSD	65.0	46.7	93.0	68.2
PSG-5RM	80.0	33.3	86.7	66.7
GOTHAM	76.7	43.3	79.7	66.6
BOREAL	63.3	43.3	92.7	66.4
PSG 50C3	86.7	18.3	89.7	64.9
CHANTILLY (IS-FRR-62)	78.3	23.3	89.7	63.8
LSD VALUE	16.2	24.2	15.8	11.0
C.V. (%)	12.3	34.6	11.0	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 12B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	UT1	MEAN
RADAR (MVS-FRC-101)	90.0	50.0	92.7	77.6
ZODIAC	88.3	56.7	86.7	77.2
CASCADE	80.0	56.7	89.7	75.4
LONGFELLOW 3 (IS-FRC-33)	90.0	43.3	89.7	74.3
LACROSSE	85.0	46.7	89.7	73.8
TREAZURE II	90.0	40.0	83.3	71.1
INTRIGUE 2	88.3	33.3	90.0	70.6
WRIGLEY 2 (IS-FRC-35)	90.0	33.3	83.3	68.9
FAIRMONT (TCD)	90.0	28.3	86.3	68.2
PST-4CSD	65.0	46.7	93.0	68.2
PSG 50C3	86.7	18.3	89.7	64.9
LSD VALUE	8.0	26.6	14.8	10.5
C.V. (%)	5.8	40.1	10.4	15.7

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 12C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	UT1	MEAN
SHADEMASTER III (PST-48Y7)	78.3	56.7	93.0	76.0
ABERDEEN	80.0	40.0	96.0	72.0
ROSECITY (IS-FRR-51)	80.0	46.7	86.7	71.1
NAVIGATOR II (MVS-OS-1)	85.0	30.0	96.0	70.3
EPIC	81.7	43.3	83.0	69.3
PSG-5RM	80.0	33.3	86.7	66.7
BOREAL	63.3	43.3	92.7	66.4
CHANTILLY (IS-FRR-62)	78.3	23.3	89.7	63.8
LSD VALUE	12.8	22.7	15.8	10.2
C.V. (%)	10.2	35.7	10.9	15.8

TABLE 12D. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	UT1	MEAN
BIGHORN GT (PST-4BU3)	85.0	66.7	93.0	81.6
BEACON (Z6300)	86.7	56.7	83.3	75.6
PST-4HES	73.3	56.7	96.0	75.3
SWORD (NC-HF1)	71.7	50.0	92.7	71.4
SPARTAN II	73.3	43.3	92.7	69.8
GOTHAM	76.7	43.3	79.7	66.6
LSD VALUE	27.4	21.4	17.5	13.0
C.V. (%)	21.9	25.3	12.1	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 13A. PERCENT LIVING GROUND COVER (FALL) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	MN1	NJ2	RI1	MEAN
RADAR (MVS-FRC-101)	99.0	97.0	99.0	99.0	98.5
PSG 50C3	99.0	95.7	96.3	99.0	97.5
LONGFELLOW 3 (IS-FRC-33)	99.0	96.0	99.0	94.3	97.1
ZODIAC	99.0	92.3	96.3	99.0	96.7
FAIRMONT (TCD)	99.0	89.7	96.0	99.0	95.9
INTRIGUE 2	99.0	93.3	99.0	90.0	95.3
TREAZURE II	99.0	92.3	98.0	90.0	94.8
PSG-5RM	99.0	92.7	95.0	91.3	94.5
CHANTILLY (IS-FRR-62)	99.0	91.3	97.7	89.7	94.4
WRIGLEY 2 (IS-FRC-35)	99.0	94.3	96.7	83.0	93.3
NAVIGATOR II (MVS-OS-1)	99.0	76.0	97.7	88.0	90.2
ROSECITY (IS-FRR-51)	99.0	93.7	95.0	66.7	88.6
PST-4CSD	99.0	79.0	97.0	78.3	88.3
CASCADE	99.0	86.0	94.7	61.7	85.3
SHADEMASTER III (PST-48Y7)	99.0	87.7	94.0	58.3	84.8
SWORD (NC-HF1)	53.0	82.0	96.7	97.7	82.3
LACROSSE	66.7	79.7	81.7	96.0	81.0
ABERDEEN	96.0	92.0	83.3	45.0	79.1
BEACON (Z6300)	16.7	95.7	97.7	93.0	75.8
EPIC	99.0	71.3	87.3	45.0	75.7
SPARTAN II	40.0	81.7	97.0	83.0	75.4
PST-4HES	33.3	84.7	95.3	68.3	70.4
BIGHORN GT (PST-4BU3)	40.0	90.7	72.7	66.7	67.5
GOTHAM	20.0	76.7	95.3	40.0	58.0
BOREAL	59.7	80.7	59.3	15.0	53.7
LSD VALUE	24.9	20.0	11.6	21.5	10.0
C.V. (%)	19.2	14.2	7.8	17.3	14.8

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

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



TABLE 13B. PERCENT LIVING GROUND COVER (FALL) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	MN1	NJ2	RI1	MEAN
RADAR (MVS-FRC-101)	99.0	97.0	99.0	99.0	98.5
PSG 50C3	99.0	95.7	96.3	99.0	97.5
LONGFELLOW 3 (IS-FRC-33)	99.0	96.0	99.0	94.3	97.1
ZODIAC	99.0	92.3	96.3	99.0	96.7
FAIRMONT (TCD)	99.0	89.7	96.0	99.0	95.9
INTRIGUE 2	99.0	93.3	99.0	90.0	95.3
TREAZURE II	99.0	92.3	98.0	90.0	94.8
WRIGLEY 2 (IS-FRC-35)	99.0	94.3	96.7	83.0	93.3
PST-4CSD	99.0	79.0	97.0	78.3	88.3
CASCADE	99.0	86.0	94.7	61.7	85.3
LACROSSE	66.7	79.7	81.7	96.0	81.0
LSD VALUE	19.6	20.5	10.1	13.1	8.2
C.V. (%)	12.7	14.1	6.6	9.0	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 13C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	MN1	NJ2	RI1	MEAN
PSG-5RM	99.0	92.7	95.0	91.3	94.5
CHANTILLY (IS-FRR-62)	99.0	91.3	97.7	89.7	94.4
NAVIGATOR II (MVS-OS-1)	99.0	76.0	97.7	88.0	90.2
ROSECITY (IS-FRR-51)	99.0	93.7	95.0	66.7	88.6
SHADEMASTER III (PST-48Y7)	99.0	87.7	94.0	58.3	84.8
ABERDEEN	96.0	92.0	83.3	45.0	79.1
EPIC	99.0	71.3	87.3	45.0	75.7
BOREAL	59.7	80.7	59.3	15.0	53.7
LSD VALUE	20.4	20.6	11.7	22.2	9.6
C.V. (%)	13.5	15.0	8.2	22.2	14.4

TABLE 13D. PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	MN1	NJ2	RI1	MEAN
SWORD (NC-HF1)	53.0	82.0	96.7	97.7	82.3
BEACON (Z6300)	16.7	95.7	97.7	93.0	75.8
SPARTAN II	40.0	81.7	97.0	83.0	75.4
PST-4HES	33.3	84.7	95.3	68.3	70.4
BIGHORN GT (PST-4BU3)	40.0	90.7	72.7	66.7	67.5
GOTHAM	20.0	76.7	95.3	40.0	58.0
LSD VALUE	36.3	18.3	13.7	30.9	13.2
C.V. (%)	66.7	13.4	9.2	25.7	23.0

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. WINTER COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	WA3
BEACON (Z6300)	5.7
PST-4CSD	5.3
CHANTILLY (IS-FRR-62)	5.0
GOTHAM	5.0
PST-4HES	5.0
SPARTAN II	5.0
SWORD (NC-HF1)	5.0
ZODIAC	5.0
BIGHORN GT (PST-4BU3)	4.7
BOREAL	4.7
CASCADE	4.7
EPIC	4.7
INTRIGUE 2	4.7
NAVIGATOR II (MVS-OS-1)	4.7
PSG-5RM	4.7
ROSECITY (IS-FRR-51)	4.7
FAIRMONT (TCD)	4.3
LACROSSE	4.3
LONGFELLOW 3 (IS-FRC-33)	4.3
PSG 50C3	4.3
RADAR (MVS-FRC-101)	4.3
SHADEMASTER III (PST-48Y7)	4.3
WRIGLEY 2 (IS-FRC-35)	4.3
ABERDEEN	4.0
TREAZURE II	4.0
LSD VALUE	0.8
C.V. (%)	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 14B. WINTER COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	WA3
PST-4CSD	5.3
ZODIAC	5.0
CASCADE	4.7
INTRIGUE 2	4.7
FAIRMONT (TCD)	4.3
LACROSSE	4.3
LONGFELLOW 3 (IS-FRC-33)	4.3
PSG 50C3	4.3
RADAR (MVS-FRC-101)	4.3
WRIGLEY 2 (IS-FRC-35)	4.3
TREAZURE II	4.0
LSD VALUE	1.0
C.V. (%)	13.4

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

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

TABLE 14C. WINTER COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	WA3
CHANTILLY (IS-FRR-62)	5.0
BOREAL	4.7
EPIC	4.7
NAVIGATOR II (MVS-OS-1)	4.7
PSG-5RM	4.7
ROSECITY (IS-FRR-51)	4.7
SHADEMASTER III (PST-48Y7)	4.3
ABERDEEN	4.0
LSD VALUE	0.8
C.V. (%)	10.9

TABLE 14D. WINTER COLOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	WA3
BEACON (Z6300)	5.7
GOTHAM	5.0
PST-4HES	5.0
SPARTAN II	5.0
SWORD (NC-HF1)	5.0
BIGHORN GT (PST-4BU3)	4.7
LSD VALUE	0.5
C.V. (%)	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 15A. DOLLAR SPOT RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	NJ2
FAIRMONT (TCD)	7.0
LONGFELLOW 3 (IS-FRC-33)	6.7
SWORD (NC-HF1)	6.7
INTRIGUE 2	6.3
TREAZURE II	6.3
PST-4CSD	6.0
RADAR (MVS-FRC-101)	6.0
ZODIAC	6.0
PSG 50C3	5.7
PSG-5RM	5.7
WRIGLEY 2 (IS-FRC-35)	5.3
CASCADE	4.7
SHADEMASTER III (PST-48Y7)	4.7
BEACON (Z6300)	4.3
CHANTILLY (IS-FRR-62)	3.3
PST-4HES	3.3
GOTHAM	3.0
SPARTAN II	2.7
BOREAL	2.3
LACROSSE	2.3
NAVIGATOR II (MVS-0S-1)	2.3
BIGHORN GT (PST-4BU3)	2.0
ROSECITY (IS-FRR-51)	1.7
ABERDEEN	1.3
EPIC	1.0
LSD VALUE	2.0
C.V. (%)	29.3

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

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

TABLE 15B. DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	NJ2
FAIRMONT (TCD)	7.0
LONGFELLOW 3 (IS-FRC-33)	6.7
INTRIGUE 2	6.3
TREAZURE II	6.3
PST-4CSD	6.0
RADAR (MVS-FRC-101)	6.0
ZODIAC	6.0
PSG 50C3	5.7
WRIGLEY 2 (IS-FRC-35)	5.3
CASCADE	4.7
LACROSSE	2.3
LSD VALUE	2.2
C.V. (%)	24.6

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. DOLLAR SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	NJ2
PSG-5RM	5.7
SHADEMASTER III (PST-48Y7)	4.7
CHANTILLY (IS-FRR-62)	3.3
BOREAL	2.3
NAVIGATOR II (MVS-0S-1)	2.3
ROSECITY (IS-FRR-51)	1.7
ABERDEEN	1.3
EPIC	1.0
LSD VALUE	1.7
C.V. (%)	38.7

TABLE 15D. DOLLAR SPOT RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	NJ2
SWORD (NC-HF1)	6.7
BEACON (Z6300)	4.3
PST-4HES	3.3
GOTHAM	3.0
SPARTAN II	2.7
BIGHORN GT (PST-4BU3)	2.0
LSD VALUE	1.9
C.V. (%)	32.1

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 16A. RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	MD1	NJ2	PA1	RI1	MEAN
GOTHAM	8.0	7.7	8.0	9.0	8.2
BEACON (Z6300)	8.0	8.3	8.0	7.7	8.0
SWORD (NC-HF1)	8.0	8.0	7.3	8.0	7.8
SPARTAN II	8.3	7.3	8.0	7.3	7.8
PST-4HES	8.0	7.0	7.3	8.3	7.7
BIGHORN GT (PST-4BU3)	8.0	5.3	7.3	8.0	7.2
ZODIAC	6.7	5.0	7.0	8.3	6.8
PSG 50C3	6.7	4.3	7.3	8.3	6.7
LONGFELLOW 3 (IS-FRC-33)	6.7	4.7	7.0	7.3	6.4
RADAR (MVS-FRC-101)	6.3	4.7	6.3	7.7	6.3
SHADEMASTER III (PST-48Y7)	7.0	5.0	5.0	7.5	6.1
INTRIGUE 2	7.0	4.0	7.0	6.3	6.1
PSG-5RM	7.0	5.7	7.3	4.0	6.0
PST-4CSD	6.0	4.3	6.7	7.0	6.0
LACROSSE	6.0	4.3	5.7	7.7	5.9
FAIRMONT (TCD)	6.3	3.7	6.3	7.3	5.9
NAVIGATOR II (MVS-OS-1)	6.7	5.7	4.3	6.7	5.8
TREAZURE II	6.3	4.0	6.7	6.3	5.8
CHANTILLY (IS-FRR-62)	6.7	5.3	5.0	6.0	5.8
WRIGLEY 2 (IS-FRC-35)	6.7	4.7	5.3	5.7	5.6
EPIC	5.7	5.0	4.7	6.0	5.3
ROSECITY (IS-FRR-51)	6.3	5.3	4.3	4.7	5.2
BOREAL	6.3	4.3	4.7	.	5.1
ABERDEEN	6.0	3.7	4.0	5.7	4.8
CASCADE	5.7	2.3	3.7	6.0	4.4
LSD VALUE	0.8	1.8	2.3	3.0	1.1
C.V. (%)	7.0	21.1	23.2	26.4	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 16B. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	MD1	NJ2	PA1	RI1	MEAN
ZODIAC	6.7	5.0	7.0	8.3	6.8
PSG 50C3	6.7	4.3	7.3	8.3	6.7
LONGFELLOW 3 (IS-FRC-33)	6.7	4.7	7.0	7.3	6.4
RADAR (MVS-FRC-101)	6.3	4.7	6.3	7.7	6.3
INTRIGUE 2	7.0	4.0	7.0	6.3	6.1
PST-4CSD	6.0	4.3	6.7	7.0	6.0
LACROSSE	6.0	4.3	5.7	7.7	5.9
FAIRMONT (TCD)	6.3	3.7	6.3	7.3	5.9
TREAZURE II	6.3	4.0	6.7	6.3	5.8
WRIGLEY 2 (IS-FRC-35)	6.7	4.7	5.3	5.7	5.6
CASCADE	5.7	2.3	3.7	6.0	4.4
LSD VALUE	0.9	1.9	2.6	2.7	1.1
C.V. (%)	9.0	27.6	25.3	24.1	22.2

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

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

TABLE 16C. RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	MD1	NJ2	PA1	RI1	MEAN
SHADEMASTER III (PST-48Y7)	7.0	5.0	5.0	7.5	6.1
PSG-5RM	7.0	5.7	7.3	4.0	6.0
NAVIGATOR II (MVS-OS-1)	6.7	5.7	4.3	6.7	5.8
CHANTILLY (IS-FRR-62)	6.7	5.3	5.0	6.0	5.8
EPIC	5.7	5.0	4.7	6.0	5.3
ROSECITY (IS-FRR-51)	6.3	5.3	4.3	4.7	5.2
BOREAL	6.3	4.3	4.7	.	5.1
ABERDEEN	6.0	3.7	4.0	5.7	4.8
LSD VALUE	0.7	1.7	2.2	4.1	1.2
C.V. (%)	7.1	21.2	27.5	42.5	26.3

TABLE 16D. RED THREAD RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

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

NAME	MD1	NJ2	PA1	RI1	MEAN
GOTHAM	8.0	7.7	8.0	9.0	8.2
BEACON (Z6300)	8.0	8.3	8.0	7.7	8.0
SWORD (NC-HF1)	8.0	8.0	7.3	8.0	7.8
SPARTAN II	8.3	7.3	8.0	7.3	7.8
PST-4HES	8.0	7.0	7.3	8.3	7.7
BIGHORN GT (PST-4BU3)	8.0	5.3	7.3	8.0	7.2
LSD VALUE	0.4	1.7	2.0	1.7	0.8
C.V. (%)	2.9	14.1	16.0	13.0	12.4

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

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

TABLE 17A. POA ANNUA RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/

NAME	RI1
LONGFELLOW 3 (IS-FRC-33)	9.0
ZODIAC	9.0
PSG 50C3	8.7
RADAR (MVS-FRC-101)	8.7
WRIGLEY 2 (IS-FRC-35)	8.7
FAIRMONT (TCD)	8.3
LACROSSE	8.3
TREAZURE II	8.3
BEACON (Z6300)	8.0
INTRIGUE 2	7.3
PSG-5RM	7.3
SWORD (NC-HF1)	7.3
CASCADE	7.0
GOTHAM	6.3
PST-4CSD	6.3
SPARTAN II	6.3
CHANTILLY (IS-FRR-62)	6.0
NAVIGATOR II (MVS-OS-1)	5.0
PST-4HES	4.7
ROSECITY (IS-FRR-51)	4.7
BIGHORN GT (PST-4BU3)	4.0
ABERDEEN	3.7
EPIC	3.7
SHADEMASTER III (PST-48Y7)	3.7
BOREAL	2.0
LSD VALUE	2.2
C.V. (%)	21.0

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 17B. POA ANNUA RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/

NAME	RI1
LONGFELLOW 3 (IS-FRC-33)	9.0
ZODIAC	9.0
PSG 50C3	8.7
RADAR (MVS-FRC-101)	8.7
WRIGLEY 2 (IS-FRC-35)	8.7
FAIRMONT (TCD)	8.3
LACROSSE	8.3
TREAZURE II	8.3
INTRIGUE 2	7.3
CASCADE	7.0
PST-4CSD	6.3
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 17C. POA ANNUA RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/

NAME	RI1
PSG-5RM	7.3
CHANTILLY (IS-FRR-62)	6.0
NAVIGATOR II (MVS-OS-1)	5.0
ROSECITY (IS-FRR-51)	4.7
ABERDEEN	3.7
EPIC	3.7
SHADEMASTER III (PST-48Y7)	3.7
BOREAL	2.0
LSD VALUE	2.5
C.V. (%)	33.9

TABLE 17D. POA ANNUA RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/

NAME	RI1
BEACON (Z6300)	8.0
SWORD (NC-HF1)	7.3
GOTHAM	6.3
SPARTAN II	6.3
PST-4HES	4.7
BIGHORN GT (PST-4BU3)	4.0
LSD VALUE	3.0
C.V. (%)	30.9

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 18A. CRABGRASS RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/

NAME	RI1
BEACON (Z6300)	8.7
PSG 50C3	8.3
FAIRMONT (TCD)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
WRIGLEY 2 (IS-FRC-35)	8.0
CHANTILLY (IS-FRR-62)	7.7
LACROSSE	7.7
RADAR (MVS-FRC-101)	7.7
SWORD (NC-HF1)	7.3
INTRIGUE 2	7.0
ZODIAC	6.7
EPIC	6.3
PSG-5RM	6.3
TREAZURE II	6.3
GOTHAM	6.0
NAVIGATOR II (MVS-OS-1)	6.0
SPARTAN II	6.0
ROSECITY (IS-FRR-51)	5.7
PST-4HES	5.5
BIGHORN GT (PST-4BU3)	5.0
SHADEMASTER III (PST-48Y7)	4.7
PST-4CSD	3.3
ABERDEEN	3.0
BOREAL	2.3
CASCADE	2.3
LSD VALUE	2.7
C.V. (%)	26.9

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

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

TABLE 18B. CRABGRASS RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/

NAME	RI1
PSG 50C3	8.3
FAIRMONT (TCD)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
WRIGLEY 2 (IS-FRC-35)	8.0
LACROSSE	7.7
RADAR (MVS-FRC-101)	7.7
INTRIGUE 2	7.0
ZODIAC	6.7
TREAZURE II	6.3
PST-4CSD	3.3
CASCADE	2.3
LSD VALUE	2.2
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.



TABLE 18C. CRABGRASS RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/

NAME	RI1
CHANTILLY (IS-FRR-62)	7.7
EPIC	6.3
PSG-5RM	6.3
NAVIGATOR II (MVS-OS-1)	6.0
ROSECITY (IS-FRR-51)	5.7
SHADEMASTER III (PST-48Y7)	4.7
ABERDEEN	3.0
BOREAL	2.3
LSD VALUE	3.2
C.V. (%)	38.1

TABLE 18D. CRABGRASS RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/

NAME	RI1
BEACON (Z6300)	8.7
SWORD (NC-HF1)	7.3
GOTHAM	6.0
SPARTAN II	6.0
PST-4HES	5.5
BIGHORN GT (PST-4BU3)	5.0
LSD VALUE	2.8
C.V. (%)	25.7

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 19A. PERCENT POA ANNUA RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2012 DATA 2/

NAME	MD1
BOREAL	63.3
ABERDEEN	62.7
EPIC	50.0
SHADEMASTER III (PST-48Y7)	30.0
CASCADE	28.0
ROSECITY (IS-FRR-51)	26.7
TREAZURE II	24.0
NAVIGATOR II (MVS-0S-1)	19.0
PSG-5RM	19.0
LONGFELLOW 3 (IS-FRC-33)	16.7
CHANTILLY (IS-FRR-62)	16.3
LACROSSE	15.3
WRIGLEY 2 (IS-FRC-35)	14.7
FAIRMONT (TCD)	11.3
PST-4CSD	10.0
RADAR (MVS-FRC-101)	10.0
INTRIGUE 2	9.3
ZODIAC	5.3
PSG 50C3	4.3
SWORD (NC-HF1)	1.3
BEACON (Z6300)	1.0
GOTHAM	1.0
PST-4HES	1.0
BIGHORN GT (PST-4BU3)	0.7
SPARTAN II	0.7
LSD VALUE	20.9
C.V. (%)	73.6

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 19B. PERCENT POA ANNUA RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2012 DATA 2/

NAME	MD1
CASCADE	28.0
TREAZURE II	24.0
LONGFELLOW 3 (IS-FRC-33)	16.7
LACROSSE	15.3
WRIGLEY 2 (IS-FRC-35)	14.7
FAIRMONT (TCD)	11.3
PST-4CSD	10.0
RADAR (MVS-FRC-101)	10.0
INTRIGUE 2	9.3
ZODIAC	5.3
PSG 50C3	4.3
LSD VALUE	17.6
C.V. (%)	80.8

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 19C. PERCENT POA ANNUA RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2012 DATA 2/

NAME	MD1
BOREAL	63.3
ABERDEEN	62.7
EPIC	50.0
SHADEMASTER III (PST-48Y7)	30.0
ROSECITY (IS-FRR-51)	26.7
NAVIGATOR II (MVS-OS-1)	19.0
PSG-5RM	19.0
CHANTILLY (IS-FRR-62)	16.3
LSD VALUE	30.7
C.V. (%)	53.1

TABLE 19D. PERCENT POA ANNUA RATINGS OF HARD FESCUE CULTIVARS 1/  
2012 DATA 2/

NAME	MD1
SWORD (NC-HF1)	1.3
BEACON (Z6300)	1.0
GOTHAM	1.0
PST-4HES	1.0
BIGHORN GT (PST-4BU3)	0.7
SPARTAN II	0.7
LSD VALUE	1.6
C.V. (%)	105.9

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 20A. RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS  
 AT PUYALLUP, WA 1/  
 2012 DATA

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

NAME	MAY	OCTOBER	NOVEMBER	DECEMBER	MEAN
SPARTAN II	7.7	7.7	7.3	7.3	7.5
SWORD (NC-HF1)	7.0	7.0	7.0	6.0	6.8
BEACON (Z6300)	5.7	6.7	7.0	7.3	6.7
PST-4HES	6.3	7.3	7.3	5.7	6.7
GOTHAM	6.3	6.0	5.7	6.0	6.0
INTRIGUE 2	6.0	6.3	5.7	6.0	6.0
BIGHORN GT (PST-4BU3)	4.7	6.3	6.3	5.7	5.8
LONGFELLOW 3 (IS-FRC-33)	4.7	5.7	5.3	6.0	5.4
TREAZURE II	5.3	5.0	6.0	5.3	5.4
FAIRMONT (TCD)	3.7	6.3	5.7	5.3	5.3
NAVIGATOR II (MVS-OS-1)	5.0	5.3	5.0	6.0	5.3
PSG-5RM	5.7	4.7	5.7	5.3	5.3
RADAR (MVS-FRC-101)	4.0	6.0	5.3	5.7	5.3
ZODIAC	4.7	6.0	5.3	5.3	5.3
CHANTILLY (IS-FRR-62)	4.3	6.0	5.0	5.3	5.2
ROSECITY (IS-FRR-51)	5.0	5.0	5.0	4.7	4.9
PST-4CSD	5.0	5.0	5.0	4.0	4.8
SHADEMASTER III (PST-48Y7)	4.3	4.7	5.3	4.7	4.8
PSG 50C3	4.7	4.3	5.3	4.0	4.6
WRIGLEY 2 (IS-FRC-35)	4.3	5.0	4.3	4.7	4.6
BOREAL	4.3	4.7	5.0	3.7	4.4
CASCADE	3.0	4.7	4.7	4.3	4.2
EPIC	4.0	4.7	3.3	4.7	4.2
ABERDEEN	3.3	4.7	4.0	4.3	4.1
LACROSSE	3.0	4.7	4.3	4.3	4.1
LSD VALUE	2.3	2.0	1.9	1.4	1.0
C.V. (%)	25.2	18.7	18.6	15.7	12.0

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

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

TABLE 20B. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS  
 AT PUYALLUP, WA 1/  
 2012 DATA

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

NAME	MAY	OCTOBER	NOVEMBER	DECEMBER	MEAN
INTRIGUE 2	6.0	6.3	5.7	6.0	6.0
LONGFELLOW 3 (IS-FRC-33)	4.7	5.7	5.3	6.0	5.4
TREAZURE II	5.3	5.0	6.0	5.3	5.4
FAIRMONT (TCD)	3.7	6.3	5.7	5.3	5.3
RADAR (MVS-FRC-101)	4.0	6.0	5.3	5.7	5.3
ZODIAC	4.7	6.0	5.3	5.3	5.3
PST-4CSD	5.0	5.0	5.0	4.0	4.8
PSG 50C3	4.7	4.3	5.3	4.0	4.6
WRIGLEY 2 (IS-FRC-35)	4.3	5.0	4.3	4.7	4.6
CASCADE	3.0	4.7	4.7	4.3	4.2
LACROSSE	3.0	4.7	4.3	4.3	4.1
LSD VALUE	2.7	1.6	2.4	1.3	1.3
C.V. (%)	27.4	14.8	17.6	14.1	13.0

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 20C. RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2012 DATA

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

NAME	MAY	OCTOBER	NOVEMBER	DECEMBER	MEAN
NAVIGATOR II (MVS-OS-1)	5.0	5.3	5.0	6.0	5.3
PSG-5RM	5.7	4.7	5.7	5.3	5.3
CHANTILLY (IS-FRR-62)	4.3	6.0	5.0	5.3	5.2
ROSECITY (IS-FRR-51)	5.0	5.0	5.0	4.7	4.9
SHADEMASTER III (PST-48Y7)	4.3	4.7	5.3	4.7	4.8
BOREAL	4.3	4.7	5.0	3.7	4.4
EPIC	4.0	4.7	3.3	4.7	4.2
ABERDEEN	3.3	4.7	4.0	4.3	4.1
LSD VALUE	3.9	3.3	3.2	2.1	1.6
C.V. (%)	33.6	24.9	27.1	19.4	14.4

TABLE 20D. RED THREAD RATINGS OF HARD FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2012 DATA

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

NAME	MAY	OCTOBER	NOVEMBER	DECEMBER	MEAN
SPARTAN II	7.7	7.7	7.3	7.3	7.5
SWORD (NC-HF1)	7.0	7.0	7.0	6.0	6.8
BEACON (Z6300)	5.7	6.7	7.0	7.3	6.7
PST-4HES	6.3	7.3	7.3	5.7	6.7
GOTHAM	6.3	6.0	5.7	6.0	6.0
BIGHORN GT (PST-4BU3)	4.7	6.3	6.3	5.7	5.8
LSD VALUE	1.2	2.8	1.1	1.1	0.9
C.V. (%)	10.8	16.9	8.4	9.1	7.0

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

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