

## **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.

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## **A Guide to NTEP Turfgrass Ratings**

### **Introduction**

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

### **General Considerations**

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

### **Turfgrass Quality**

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

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 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 2009

<u>State</u>	<u>Location</u>	<u>Code</u>
California	San Luis Obispo	CA1
California	Palo Alto (Recycled Water)	CA8
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Maryland	College Park	MD1
Minnesota	St. Paul	MN1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
New York	Ithaca	NY1
Pennsylvania	University Park	PA1
Rhode Island	Kingston	RI1
South Dakota	Brookings (Shade)	SD1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Puyallup	WA3
Wisconsin	Madison	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	MVS-OS-1	strong creeping red	Mountain View Seeds
7	Beacon (Z6300)	hard	Mountain View Seeds
8	MVS-FRC-101	chewings	Mountain View Seeds
9	Fairmont (TCD)	chewings	Dye Seed Ranch
10	PSG 50C3	chewings	Seed Research of Oregon
11	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	IS-FRR-51	strong creeping red	DLF International Seeds
16	IS-FRR-62	strong creeping red	DLF International Seeds
17	IS-FRC-35	chewings	DLF International Seeds
18	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 (ST-4BU3)	blue hard	The Scotts Company
24	PST-48Y7	strong creeping red	Pure-Seed Testing
25	PSG-5RM	strong creeping red	The Scotts Co.

\* COMMERCIALY AVAILABLE IN THE USA IN 2010.

TABLE A.

2009 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
CA1	SILTY CLAY LOAM	7.1-7.5	61-150	501+	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
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	UNIFORM SHADE	2.1-2.5	NO IRRIGATION
MD1	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
MN1	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	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+	-	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ2	SANDY LOAM	6.6-7.0	151-270	241-375	0.0-1.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NY1	SANDY LOAM	6.1-6.5	151-270	241-375	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
PA1	LOAM	6.1-6.5	61-150	151-240	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
RI1	SANDY LOAM	-	-	-	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
SD1	-	-	-	-	-	DENSE SHADE	2.1-2.5	ONLY DURING SEVERE STRESS
UT1	SILT LOAM AND SILT	7.1-7.5	0-60	0-150	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
VA1	SILTY CLAY AND CLAY	4.6-5.5	0-60	151-240	2.1-3.0	FULL SUN	0.6-1.0	ONLY DURING SEVERE STRESS
WA3	SAND	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2009

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
CA1	X	X	X	X	X	X	X	X	X	X	X	X
CA8								X	X	X	X	X
IL1					X	X	X	X	X	X		
IL2			X	X	X	X	X	X	X	X	X	
MD1					X	X	X	X	X	X	X	
MN1					X	X	X	X	X	X		
NE1					X	X	X	X	X	X		
NJ2				X	X	X	X	X	X	X	X	
NY1							X	X	X	X		
PA1					X	X	X	X	X	X		
RI1						X	X					
SD1					X	X	X	X	X	X		
UT1					X	X	X	X	X	X		
VA1				X	X	X	X	X	X	X	X	
WA3		X		X	X	X	X	X	X	X	X	X
WI1					X	X	X	X	X			

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2009

LOCATION	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	RED THREAD	BROWN PATCH WARM TEMP.
CA1	X								X				
CA8													
IL1	X	X								X			
IL2	X			X						X			
MD1													
MN1	X												
NE1	X	X			X	X	X						
NJ2													
NY1				X									
PA1	X			X						X			
RI1	X												
SD1	X								X				
UT1	X												
VA1								X				X	X
WA3	X			X	X	X	X	X	X		X		
WI1								X	X	X			

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2009

LOCATION	MOWING QUALITY	PERCENT ESTABLISH- MENT	PERCENT ESTABLISHMENT RATINGS				PERCENT ESTABLISHMENT		WINTER INJURY	WINTER DENSITY	RED THREAD	
			SEPTEMBER 2008	NOVEMBER 2008	SPRING 2009	SUMMER 2009	6 WEEKS	10 WEEKS			JUNE	SEPTEMBER
CA1		X										
CA8												
IL1		X										
IL2												
MD1												
MN1		X							X			
NE1												
NJ2		X										
NY1												
PA1												
RI1					X	X						
SD1		X										
UT1		X										
VA1							X	X				
WA3	X		X	X						X	X	X
WI1		X										

TABLE 1A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
GROWN AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*\*/  
2009 DATA

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

NAME	NJ1	MD1	NY1	MN1	MEAN
FAIRMONT (TCD)	5.5	5.3	7.2	7.0	6.2
MVS-FRC-101	5.5	5.2	7.0	7.0	6.1
IS-FRC-33	5.4	5.2	7.0	6.9	6.1
Beacon (Z6300)	5.5	5.2	6.8	6.7	6.1
* SPARTAN II	5.4	5.1	6.8	6.6	6.0
* GOTHAM	5.4	5.2	6.8	6.4	5.9
* INTRIGUE 2	5.2	5.0	7.0	6.5	5.9
PSG-5RM	5.2	5.1	7.1	6.3	5.9
IS-FRR-62	5.2	5.0	7.0	6.5	5.9
PSG 50C3	5.2	5.0	7.0	6.5	5.9
* TREAZURE II	5.2	4.9	6.8	6.5	5.9
IS-FRR-51	5.1	5.0	7.1	6.3	5.9
PST-4HES	5.3	5.0	6.7	6.4	5.8
LACROSSE	5.1	5.0	6.8	6.4	5.8
* ZODIAC	5.0	4.8	6.8	6.4	5.7
NC-HF1	5.1	4.9	6.6	6.2	5.7
IS-FRC-35	4.9	4.8	6.8	6.3	5.7
MVS-OS-1	4.9	4.8	7.0	6.0	5.6
* EPIC	4.6	4.6	6.7	5.8	5.4
PST-48Y7	4.6	4.6	6.6	5.7	5.4
* CASCADE	4.5	4.4	6.5	5.6	5.3
BIGHORN GT (PST-4BU3)	4.5	4.3	6.1	5.6	5.1
* ABERDEEN	4.3	4.2	6.2	5.4	5.0
PST-4CSD	4.1	4.1	6.2	5.1	4.9
* BOREAL	3.0	3.0	5.2	4.1	3.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.5	12.9	9.2	10.0	11.0

\* COMMERCIALY AVAILABLE IN THE USA IN 2010.

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

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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 AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
 2009 DATA

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

NAME	NJ1	MD1	NY1	MN1	MEAN
FAIRMONT (TCD)	5.5	5.3	7.2	7.0	6.2
MVS-FRC-101	5.5	5.2	7.0	7.0	6.1
IS-FRC-33	5.4	5.2	7.0	6.9	6.1
INTRIGUE 2	5.2	5.0	7.0	6.5	5.9
PSG 50C3	5.2	5.0	7.0	6.5	5.9
TREAZURE II	5.2	4.9	6.8	6.5	5.9
LACROSSE	5.1	5.0	6.8	6.4	5.8
ZODIAC	5.0	4.8	6.8	6.4	5.7
IS-FRC-35	4.9	4.8	6.8	6.3	5.7
CASCADE	4.5	4.4	6.5	5.6	5.3
PST-4CSD	4.1	4.1	6.2	5.1	4.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.3	12.7	9.1	9.7	10.7

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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 AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	NJ1	MD1	NY1	MN1	MEAN
PSG-5RM	5.2	5.1	7.1	6.3	5.9
IS-FRR-62	5.2	5.0	7.0	6.5	5.9
IS-FRR-51	5.1	5.0	7.1	6.3	5.9
MVS-0S-1	4.9	4.8	7.0	6.0	5.6
EPIC	4.6	4.6	6.7	5.8	5.4
PST-48Y7	4.6	4.6	6.6	5.7	5.4
ABERDEEN	4.3	4.2	6.2	5.4	5.0
BOREAL	3.0	3.0	5.2	4.1	3.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	13.4	13.6	9.4	10.8	11.5

TABLE 1D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	NJ1	MD1	NY1	MN1	MEAN
Beacon (Z6300)	5.5	5.2	6.8	6.7	6.1
SPARTAN II	5.4	5.1	6.8	6.6	6.0
GOTHAM	5.4	5.2	6.8	6.4	5.9
PST-4HES	5.3	5.0	6.7	6.4	5.8
NC-HF1	5.1	4.9	6.6	6.2	5.7
BIGHORN GT (PST-4BU3)	4.5	4.3	6.1	5.6	5.1
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	11.9	12.5	9.3	9.8	10.7

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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 AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2009 DATA

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

NAME	RI1	VA1	WI1	MEAN
IS-FRC-33	8.1	7.5	7.3	7.6
MVS-FRC-101	8.1	7.4	7.1	7.5
FAIRMONT (TCD)	7.8	7.4	6.8	7.3
ZODIAC	7.2	7.3	7.1	7.2
INTRIGUE 2	7.2	7.4	6.9	7.2
TREAZURE II	7.3	7.1	6.6	7.0
IS-FRC-35	7.0	7.2	6.8	7.0
IS-FRR-62	7.0	7.1	6.3	6.8
PSG 50C3	6.9	7.1	6.2	6.7
PSG-5RM	6.3	7.2	6.0	6.5
IS-FRR-51	6.3	7.1	5.9	6.4
MVS-OS-1	5.9	7.1	6.1	6.4
LACROSSE	6.7	6.8	5.6	6.4
CASCADE	5.7	6.7	5.7	6.0
EPIC	5.7	6.8	5.6	6.0
PST-48Y7	5.5	6.5	5.1	5.7
ABERDEEN	5.2	6.2	4.8	5.4
SPARTAN II	6.3	6.1	3.6	5.3
PST-4CSD	4.8	6.1	4.6	5.1
Beacon (Z6300)	6.2	6.0	3.1	5.1
PST-4HES	5.6	5.9	3.0	4.8
BOREAL	4.0	5.4	4.4	4.6
NC-HF1	5.3	5.7	2.6	4.5
GOTHAM	5.1	5.7	2.2	4.3
BIGHORN GT (PST-4BU3)	4.8	5.4	2.5	4.2
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	9.9	9.3	11.8	10.2

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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 AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
 2009 DATA

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

NAME	RI1	VA1	WI1	MEAN
IS-FRC-33	8.1	7.5	7.3	7.6
MVS-FRC-101	8.1	7.4	7.1	7.5
FAIRMONT (TCD)	7.8	7.4	6.8	7.3
ZODIAC	7.2	7.3	7.1	7.2
INTRIGUE 2	7.2	7.4	6.9	7.2
TREAZURE II	7.3	7.1	6.6	7.0
IS-FRC-35	7.0	7.2	6.8	7.0
PSG 50C3	6.9	7.1	6.2	6.7
LACROSSE	6.7	6.8	5.6	6.4
CASCADE	5.7	6.7	5.7	6.0
PST-4CSD	4.8	6.1	4.6	5.1
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	8.9	8.7	9.6	9.1

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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 AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2009 DATA

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

NAME	RI1	VA1	WI1	MEAN
IS-FRR-62	7.0	7.1	6.3	6.8
PSG-5RM	6.3	7.2	6.0	6.5
IS-FRR-51	6.3	7.1	5.9	6.4
MVS-OS-1	5.9	7.1	6.1	6.4
EPIC	5.7	6.8	5.6	6.0
PST-48Y7	5.5	6.5	5.1	5.7
ABERDEEN	5.2	6.2	4.8	5.4
BOREAL	4.0	5.4	4.4	4.6
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	10.8	9.3	11.2	10.4

TABLE 2D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2009 DATA

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

NAME	RI1	VA1	WI1	MEAN
SPARTAN II	6.3	6.1	3.6	5.3
Beacon (Z6300)	6.2	6.0	3.1	5.1
PST-4HES	5.6	5.9	3.0	4.8
NC-HF1	5.3	5.7	2.6	4.5
GOTHAM	5.1	5.7	2.2	4.3
BIGHORN GT (PST-4BU3)	4.8	5.4	2.5	4.2
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	11.2	10.7	22.0	13.1

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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 AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2009 DATA

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

NAME	PA1	UT1	WA3	MEAN
GOTHAM	7.0	6.6	6.4	6.8
Beacon (Z6300)	6.6	6.4	6.3	6.5
PST-4HES	6.6	6.3	6.1	6.4
NC-HF1	6.5	6.3	6.0	6.4
SPARTAN II	6.5	6.3	6.2	6.4
PSG-5RM	6.2	6.4	6.1	6.3
IS-FRR-51	6.1	6.3	6.0	6.2
FAIRMONT (TCD)	5.9	6.2	6.2	6.1
MVS-OS-1	5.9	6.1	5.9	6.0
LACROSSE	5.9	6.1	6.0	6.0
PSG 50C3	5.8	6.1	6.0	6.0
IS-FRR-62	5.8	6.1	6.0	5.9
INTRIGUE 2	5.7	6.0	6.0	5.9
PST-48Y7	5.7	5.9	5.6	5.8
BIGHORN GT (PST-4BU3)	5.9	5.7	5.5	5.8
MVS-FRC-101	5.6	6.0	6.1	5.8
EPIC	5.7	5.9	5.6	5.8
IS-FRC-33	5.6	6.0	6.1	5.8
TREAZURE II	5.5	5.9	5.9	5.7
IS-FRC-35	5.4	5.8	5.7	5.6
ZODIAC	5.3	5.7	5.7	5.5
CASCADE	5.4	5.7	5.4	5.5
PST-4CSD	5.4	5.5	5.2	5.4
ABERDEEN	5.3	5.5	5.2	5.4
BOREAL	4.1	4.4	4.1	4.3
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	10.6	10.4	10.7	10.5

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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 AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
 2009 DATA

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

NAME	PA1	UT1	WA3	MEAN
FAIRMONT (TCD)	5.9	6.2	6.2	6.1
LACROSSE	5.9	6.1	6.0	6.0
PSG 50C3	5.8	6.1	6.0	6.0
INTRIGUE 2	5.7	6.0	6.0	5.9
MVS-FRC-101	5.6	6.0	6.1	5.8
IS-FRC-33	5.6	6.0	6.1	5.8
TREAZURE II	5.5	5.9	5.9	5.7
IS-FRC-35	5.4	5.8	5.7	5.6
ZODIAC	5.3	5.7	5.7	5.5
CASCADE	5.4	5.7	5.4	5.5
PST-4CSD	5.4	5.5	5.2	5.4
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	11.1	10.5	10.6	10.8

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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 AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2009 DATA

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

NAME	PA1	UT1	WA3	MEAN
PSG-5RM	6.2	6.4	6.1	6.3
IS-FRR-51	6.1	6.3	6.0	6.2
MVS-OS-1	5.9	6.1	5.9	6.0
IS-FRR-62	5.8	6.1	6.0	5.9
PST-48Y7	5.7	5.9	5.6	5.8
EPIC	5.7	5.9	5.6	5.8
ABERDEEN	5.3	5.5	5.2	5.4
BOREAL	4.1	4.4	4.1	4.3
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	11.1	10.7	11.1	10.9

TABLE 3D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2009 DATA

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

NAME	PA1	UT1	WA3	MEAN
GOTHAM	7.0	6.6	6.4	6.8
Beacon (Z6300)	6.6	6.4	6.3	6.5
PST-4HES	6.6	6.3	6.1	6.4
NC-HF1	6.5	6.3	6.0	6.4
SPARTAN II	6.5	6.3	6.2	6.4
BIGHORN GT (PST-4BU3)	5.9	5.7	5.5	5.8
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	9.5	9.9	10.2	9.7

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

TABLE 4A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
GROWN AT TWO LOCATIONS IN THE U.S. FOR AMMI GROUP 4 \*/  
2009 DATA

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

NAME	NE1	CA1	MEAN
PSG-5RM	6.6	8.5	7.5
IS-FRR-51	6.5	8.4	7.4
MVS-OS-1	6.4	8.4	7.4
GOTHAM	6.3	8.4	7.4
EPIC	6.1	8.1	7.1
PSG 50C3	6.2	8.0	7.1
FAIRMONT (TCD)	6.3	7.9	7.1
INTRIGUE 2	6.2	7.9	7.1
PST-48Y7	6.1	8.1	7.1
PST-4HES	6.1	8.0	7.1
IS-FRR-62	6.2	7.9	7.0
NC-HF1	6.0	8.0	7.0
LACROSSE	6.1	7.9	7.0
SPARTAN II	6.1	7.9	7.0
Beacon (Z6300)	6.1	7.8	6.9
CASCADE	5.9	7.9	6.9
IS-FRC-35	6.0	7.7	6.9
IS-FRC-33	6.1	7.6	6.8
ZODIAC	6.0	7.6	6.8
TREAZURE II	6.0	7.6	6.8
MVS-FRC-101	6.1	7.5	6.8
PST-4CSD	5.7	7.8	6.8
ABERDEEN	5.7	7.7	6.7
BIGHORN GT (PST-4BU3)	5.6	7.6	6.6
BOREAL	4.8	6.8	5.8
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.2	7.9	8.9

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



TABLE 4B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 GROWN AT TWO LOCATIONS IN THE U.S. FOR AMMI GROUP 4 \*/  
 2009 DATA

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

NAME	NE1	CA1	MEAN
PSG 50C3	6.2	8.0	7.1
FAIRMONT (TCD)	6.3	7.9	7.1
INTRIGUE 2	6.2	7.9	7.1
LACROSSE	6.1	7.9	7.0
CASCADE	5.9	7.9	6.9
IS-FRC-35	6.0	7.7	6.9
IS-FRC-33	6.1	7.6	6.8
ZODIAC	6.0	7.6	6.8
TREAZURE II	6.0	7.6	6.8
MVS-FRC-101	6.1	7.5	6.8
PST-4CSD	5.7	7.8	6.8
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.2	8.0	9.0

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

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

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

TABLE 4C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN AT TWO LOCATIONS IN THE U.S. FOR AMMI GROUP 4 \*/  
2009 DATA

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

NAME	NE1	CA1	MEAN
PSG-5RM	6.6	8.5	7.5
IS-FRR-51	6.5	8.4	7.4
MVS-OS-1	6.4	8.4	7.4
EPIC	6.1	8.1	7.1
PST-48Y7	6.1	8.1	7.1
IS-FRR-62	6.2	7.9	7.0
ABERDEEN	5.7	7.7	6.7
BOREAL	4.8	6.8	5.8
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.3	7.8	8.8

TABLE 4D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT TWO LOCATIONS IN THE U.S. FOR AMMI GROUP 4 \*/  
2009 DATA

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

NAME	NE1	CA1	MEAN
GOTHAM	6.3	8.4	7.4
PST-4HES	6.1	8.0	7.1
NC-HF1	6.0	8.0	7.0
SPARTAN II	6.1	7.9	7.0
Beacon (Z6300)	6.1	7.8	6.9
BIGHORN GT (PST-4BU3)	5.6	7.6	6.6
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.3	7.8	8.9

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

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

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

TABLE 5A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 GROWN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 5 \*/  
 2009 DATA

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

NAME	IL1
MVS-OS-1	6.0
PSG-5RM	5.9
INTRIGUE 2	5.8
ZODIAC	5.8
IS-FRR-51	5.8
IS-FRC-35	5.7
EPIC	5.6
IS-FRC-33	5.6
CASCADE	5.5
FAIRMONT (TCD)	5.5
IS-FRR-62	5.4
PSG 50C3	5.4
MVS-FRC-101	5.4
TREAZURE II	5.4
PST-48Y7	5.2
LACROSSE	5.0
PST-4CSD	5.0
ABERDEEN	4.9
BOREAL	4.6
SPARTAN II	3.6
PST-4HES	3.5
NC-HF1	3.3
GOTHAM	3.3
BIGHORN GT (PST-4BU3)	3.3
Beacon (Z6300)	3.2
LSD VALUE	1.0
C.V. (%)	12.5

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

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

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

TABLE 5B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 GROWN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 5 \*/  
 2009 DATA

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

NAME	IL1
INTRIGUE 2	5.8
ZODIAC	5.8
IS-FRC-35	5.7
IS-FRC-33	5.6
CASCADE	5.5
FAIRMONT (TCD)	5.5
PSG 50C3	5.4
MVS-FRC-101	5.4
TREAZURE II	5.4
LACROSSE	5.0
PST-4CSD	5.0
LSD VALUE	1.0
C.V. (%)	11.3

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

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

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

TABLE 5C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
 GROWN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 5 \*/  
 2009 DATA

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

NAME	IL1
MVS-OS-1	6.0
PSG-5RM	5.9
IS-FRR-51	5.8
EPIC	5.6
IS-FRR-62	5.4
PST-48Y7	5.2
ABERDEEN	4.9
BOREAL	4.6
LSD VALUE	1.0
C.V. (%)	11.4

TABLE 5D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
 GROWN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 5 \*/  
 2009 DATA

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

NAME	IL1
SPARTAN II	3.6
PST-4HES	3.5
NC-HF1	3.3
GOTHAM	3.3
BIGHORN GT (PST-4BU3)	3.3
Beacon (Z6300)	3.2
LSD VALUE	1.0
C.V. (%)	18.4

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

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

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

TABLE 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER FALL	QUALITY RATINGS									MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PSG 50C3	4.0	8.0	83.7	6.3	7.0	8.3	8.7	7.3	8.0	8.7	8.0	8.0	7.8
Beacon (Z6300)	4.0	7.0	82.7	5.3	6.7	8.0	8.7	9.0	8.3	8.3	7.3	7.7	7.7
INTRIGUE 2	6.0	7.0	77.3	5.7	6.7	8.3	8.7	7.3	7.0	7.7	7.0	8.0	7.4
BIGHORN GT (PST-4BU3)	3.3	8.3	77.3	6.0	7.0	8.3	8.7	8.3	7.7	7.0	5.7	7.0	7.3
GOTHAM	6.0	7.3	86.0	5.7	6.0	6.7	6.7	7.0	7.3	8.3	8.7	8.0	7.1
IS-FRC-35	4.3	6.0	86.0	5.7	6.3	8.0	8.7	7.3	6.3	6.3	7.0	8.7	7.1
SPARTAN II	4.3	7.0	86.3	6.0	6.7	7.7	7.3	7.7	7.0	7.3	7.0	7.0	7.1
FAIRMONT (TCD)	6.0	5.3	77.3	5.3	6.0	8.0	7.3	7.0	7.0	7.0	8.0	7.0	7.0
MVS-FRC-101	6.3	8.0	81.0	6.0	7.7	8.7	7.0	7.0	6.7	7.0	6.3	7.0	7.0
ZODIAC	5.3	8.0	87.7	6.0	6.7	8.3	8.3	7.0	6.0	6.0	6.7	8.0	7.0
IS-FRC-33	4.0	5.0	85.7	5.0	6.0	7.7	8.0	7.3	6.7	6.7	7.7	7.0	6.9
TREAZURE II	4.7	6.7	83.0	5.7	6.0	7.7	8.0	6.0	6.0	6.7	6.0	8.0	6.7
LACROSSE	3.7	5.7	63.7	5.0	6.0	8.7	8.3	7.7	6.0	5.3	6.0	6.0	6.6
CASCADE	7.0	6.0	73.0	4.7	6.0	7.7	8.3	7.3	6.0	5.0	6.3	6.3	6.4
MVS-OS-1	4.0	6.7	79.7	5.7	5.7	7.3	8.0	7.0	6.7	6.0	5.3	6.3	6.4
PSG-5RM	3.0	7.0	71.7	5.3	6.0	8.0	7.0	6.3	6.0	6.0	6.3	6.3	6.4
NC-HF1	4.7	5.3	81.7	5.0	5.3	6.0	7.0	6.0	5.7	6.0	7.0	5.7	6.0
PST-4CSD	4.0	7.0	65.7	6.0	5.3	7.0	7.3	6.0	5.0	5.0	6.7	6.0	6.0
PST-4HES	4.7	5.7	74.3	5.3	5.7	7.0	6.0	5.0	5.0	6.0	7.3	7.0	6.0
ABERDEEN	3.0	8.0	71.3	5.3	5.7	7.7	7.7	5.7	5.0	5.0	5.7	5.3	5.9
IS-FRR-51	4.0	6.0	70.0	5.0	5.7	7.0	7.0	6.0	5.0	4.3	6.0	5.3	5.7
PST-48Y7	2.7	6.7	60.0	5.0	5.7	7.3	7.0	6.0	6.0	5.3	4.7	4.7	5.7
EPIC	4.7	7.7	63.7	6.7	5.7	7.0	7.0	5.0	5.0	5.0	4.0	5.0	5.6
IS-FRR-62	3.3	6.7	74.7	6.0	5.7	7.3	7.0	5.3	4.7	4.0	5.7	5.0	5.6
BOREAL	4.0	7.0	55.0	5.0	5.3	6.3	7.3	5.0	4.0	4.0	4.7	4.7	5.1
LSD VALUE	2.2	1.7	9.4	1.7	1.2	1.2	1.4	1.4	1.8	1.9	1.3	1.5	0.8
C.V. (%)	26.2	13.9	7.8	12.5	10.1	8.6	10.0	12.8	16.3	18.0	12.4	14.1	7.3

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

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

TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER FALL	QUALITY RATINGS								MEAN	
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
PSG 50C3	4.0	8.0	83.7	6.3	7.0	8.3	8.7	7.3	8.0	8.7	8.0	8.0	7.8
INTRIGUE 2	6.0	7.0	77.3	5.7	6.7	8.3	8.7	7.3	7.0	7.7	7.0	8.0	7.4
IS-FRC-35	4.3	6.0	86.0	5.7	6.3	8.0	8.7	7.3	6.3	6.3	7.0	8.7	7.1
FAIRMONT (TCD)	6.0	5.3	77.3	5.3	6.0	8.0	7.3	7.0	7.0	7.0	8.0	7.0	7.0
MVS-FRC-101	6.3	8.0	81.0	6.0	7.7	8.7	7.0	7.0	6.7	7.0	6.3	7.0	7.0
ZODIAC	5.3	8.0	87.7	6.0	6.7	8.3	8.3	7.0	6.0	6.0	6.7	8.0	7.0
IS-FRC-33	4.0	5.0	85.7	5.0	6.0	7.7	8.0	7.3	6.7	6.7	7.7	7.0	6.9
TREAZURE II	4.7	6.7	83.0	5.7	6.0	7.7	8.0	6.0	6.0	6.7	6.0	8.0	6.7
LACROSSE	3.7	5.7	63.7	5.0	6.0	8.7	8.3	7.7	6.0	5.3	6.0	6.0	6.6
CASCADE	7.0	6.0	73.0	4.7	6.0	7.7	8.3	7.3	6.0	5.0	6.3	6.3	6.4
PST-4CSD	4.0	7.0	65.7	6.0	5.3	7.0	7.3	6.0	5.0	5.0	6.7	6.0	6.0
LSD VALUE	2.5	1.5	9.2	1.6	1.0	1.5	1.7	2.3	2.9	2.7	2.0	1.9	1.1
C.V. (%)	24.5	12.8	7.0	12.5	8.9	8.4	9.5	12.8	18.2	19.8	13.2	13.3	7.7

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

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

TABLE 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER FALL	QUALITY RATINGS									MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
MVS-OS-1	4.0	6.7	79.7	5.7	5.7	7.3	8.0	7.0	6.7	6.0	5.3	6.3	6.4
PSG-5RM	3.0	7.0	71.7	5.3	6.0	8.0	7.0	6.3	6.0	6.0	6.3	6.3	6.4
ABERDEEN	3.0	8.0	71.3	5.3	5.7	7.7	7.7	5.7	5.0	5.0	5.7	5.3	5.9
IS-FRR-51	4.0	6.0	70.0	5.0	5.7	7.0	7.0	6.0	5.0	4.3	6.0	5.3	5.7
PST-48Y7	2.7	6.7	60.0	5.0	5.7	7.3	7.0	6.0	6.0	5.3	4.7	4.7	5.7
EPIC	4.7	7.7	63.7	6.7	5.7	7.0	7.0	5.0	5.0	5.0	4.0	5.0	5.6
IS-FRR-62	3.3	6.7	74.7	6.0	5.7	7.3	7.0	5.3	4.7	4.0	5.7	5.0	5.6
BOREAL	4.0	7.0	55.0	5.0	5.3	6.3	7.3	5.0	4.0	4.0	4.7	4.7	5.1
LSD VALUE	2.9	2.6	11.4	1.8	1.7	1.6	2.7	1.0	1.2	1.6	1.1	1.6	0.6
C.V. (%)	33.1	15.2	9.2	14.5	10.6	9.5	14.0	9.1	12.1	16.4	11.2	14.1	5.8

TABLE 6D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER FALL	QUALITY RATINGS									MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
Beacon (Z6300)	4.0	7.0	82.7	5.3	6.7	8.0	8.7	9.0	8.3	8.3	7.3	7.7	7.7
BIGHORN GT (PST-4BU3)	3.3	8.3	77.3	6.0	7.0	8.3	8.7	8.3	7.7	7.0	5.7	7.0	7.3
GOTHAM	6.0	7.3	86.0	5.7	6.0	6.7	6.7	7.0	7.3	8.3	8.7	8.0	7.1
SPARTAN II	4.3	7.0	86.3	6.0	6.7	7.7	7.3	7.7	7.0	7.3	7.0	7.0	7.1
NC-HF1	4.7	5.3	81.7	5.0	5.3	6.0	7.0	6.0	5.7	6.0	7.0	5.7	6.0
PST-4HES	4.7	5.7	74.3	5.3	5.7	7.0	6.0	5.0	5.0	6.0	7.3	7.0	6.0
LSD VALUE	2.6	1.6	10.4	0.9	1.3	1.0	0.6	1.7	2.0	2.4	0.9	2.4	0.8
C.V. (%)	26.0	12.5	6.1	7.8	10.0	7.4	4.7	13.2	14.9	15.9	6.7	15.2	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 7A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER SHADE AT BROOKINGS, SD 1/  
2009 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SUMMER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
IS-FRR-62	6.7	86.7	68.3	6.0	7.0	6.7	6.0	6.7	6.7	6.5
INTRIGUE 2	5.0	71.7	63.3	7.0	7.0	5.3	5.0	6.3	7.0	6.3
LACROSSE	7.0	81.7	66.7	6.7	6.7	5.7	5.3	6.0	6.7	6.2
ZODIAC	5.7	85.0	76.7	7.3	7.0	5.0	5.3	6.0	6.3	6.2
PSG 50C3	5.3	73.3	70.0	5.3	6.7	6.3	5.7	5.3	6.3	5.9
IS-FRR-51	6.7	73.3	63.3	5.7	5.7	5.7	5.7	6.0	6.3	5.8
IS-FRC-33	5.0	81.7	70.0	6.3	6.0	5.0	5.0	6.0	6.0	5.7
IS-FRC-35	4.7	71.7	66.7	6.0	6.3	5.0	4.7	6.0	6.0	5.7
MVS-OS-1	6.0	75.0	56.7	5.7	5.7	5.3	5.3	6.0	6.0	5.7
BIGHORN GT (PST-4BU3)	4.0	73.3	68.3	6.0	5.7	5.0	5.3	5.7	5.7	5.6
CASCADE	5.7	83.3	70.0	6.3	6.3	5.0	4.7	5.0	6.3	5.6
MVS-FRC-101	6.0	61.7	70.0	6.0	6.0	5.0	5.3	5.7	5.7	5.6
PST-48Y7	7.7	66.7	55.0	5.3	5.3	5.7	5.0	6.0	6.0	5.6
SPARTAN II	5.0	78.3	66.7	6.0	5.7	5.0	5.0	5.7	6.0	5.6
Beacon (Z6300)	4.7	71.7	70.0	6.0	6.0	5.0	4.7	5.7	5.7	5.5
EPIC	6.0	66.7	73.3	6.0	5.7	5.0	4.7	5.7	5.7	5.4
FAIRMONT (TCD)	5.7	73.3	70.0	5.7	6.0	5.0	4.7	5.3	5.7	5.4
ABERDEEN	5.7	60.0	56.7	5.7	5.3	5.0	4.7	5.3	6.0	5.3
PST-4CSD	5.7	58.3	66.7	5.3	6.0	4.7	4.7	5.7	5.7	5.3
PST-4HES	4.3	76.7	63.3	5.0	5.7	5.3	5.0	5.3	5.7	5.3
PSG-5RM	6.3	70.0	73.3	5.0	5.3	5.0	5.0	5.3	5.3	5.2
TREAZURE II	5.0	73.3	71.7	4.0	5.0	5.3	4.3	5.0	5.0	4.8
BOREAL	4.3	78.3	53.3	4.7	4.3	5.0	4.3	4.7	5.0	4.7
GOTHAM	4.3	68.3	53.3	4.7	4.7	4.7	4.0	5.0	5.3	4.7
NC-HF1	4.7	73.3	53.3	5.0	4.7	4.7	4.0	5.0	5.0	4.7
LSD VALUE	1.3	27.6	13.6	3.1	1.5	1.5	1.5	1.6	1.7	1.1
C.V. (%)	14.1	14.5	11.0	20.0	13.1	12.2	13.3	11.8	12.0	10.0

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

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

TABLE 7B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER SHADE AT BROOKINGS, SD 1/  
2009 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SUMMER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						
				MAY	JUN	JUL	AUG	SEP	OCT	MEAN
INTRIGUE 2	5.0	71.7	63.3	7.0	7.0	5.3	5.0	6.3	7.0	6.3
LACROSSE	7.0	81.7	66.7	6.7	6.7	5.7	5.3	6.0	6.7	6.2
ZODIAC	5.7	85.0	76.7	7.3	7.0	5.0	5.3	6.0	6.3	6.2
PSG 50C3	5.3	73.3	70.0	5.3	6.7	6.3	5.7	5.3	6.3	5.9
IS-FRC-33	5.0	81.7	70.0	6.3	6.0	5.0	5.0	6.0	6.0	5.7
IS-FRC-35	4.7	71.7	66.7	6.0	6.3	5.0	4.7	6.0	6.0	5.7
CASCADE	5.7	83.3	70.0	6.3	6.3	5.0	4.7	5.0	6.3	5.6
MVS-FRC-101	6.0	61.7	70.0	6.0	6.0	5.0	5.3	5.7	5.7	5.6
FAIRMONT (TCD)	5.7	73.3	70.0	5.7	6.0	5.0	4.7	5.3	5.7	5.4
PST-4CSD	5.7	58.3	66.7	5.3	6.0	4.7	4.7	5.7	5.7	5.3
TREAZURE II	5.0	73.3	71.7	4.0	5.0	5.3	4.3	5.0	5.0	4.8
LSD VALUE	1.7	30.8	20.6	3.2	2.1	1.4	1.6	1.4	1.9	1.4
C.V. (%)	13.9	17.1	10.5	22.3	13.7	11.6	12.7	10.9	13.0	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 7C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER SHADE AT BROOKINGS, SD 1/  
2009 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SUMMER	PERCENT ESTABLISH- MENT	QUALITY RATINGS							MEAN
				MAY	JUN	JUL	AUG	SEP	OCT		
IS-FRR-62	6.7	86.7	68.3	6.0	7.0	6.7	6.0	6.7	6.7	6.5	
IS-FRR-51	6.7	73.3	63.3	5.7	5.7	5.7	5.7	6.0	6.3	5.8	
MVS-OS-1	6.0	75.0	56.7	5.7	5.7	5.3	5.3	6.0	6.0	5.7	
PST-48Y7	7.7	66.7	55.0	5.3	5.3	5.7	5.0	6.0	6.0	5.6	
EPIC	6.0	66.7	73.3	6.0	5.7	5.0	4.7	5.7	5.7	5.4	
ABERDEEN	5.7	60.0	56.7	5.7	5.3	5.0	4.7	5.3	6.0	5.3	
PSG-5RM	6.3	70.0	73.3	5.0	5.3	5.0	5.0	5.3	5.3	5.2	
BOREAL	4.3	78.3	53.3	4.7	4.3	5.0	4.3	4.7	5.0	4.7	
LSD VALUE	1.8	16.3	11.0	2.6	1.5	2.0	1.5	1.1	1.4	1.1	
C.V. (%)	15.0	11.3	9.7	18.2	13.3	16.1	13.7	9.7	10.8	9.8	

TABLE 7D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER SHADE AT BROOKINGS, SD 1/  
2009 DATA

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

NAME	GENETIC COLOR	PERCENT COVER SUMMER	PERCENT ESTABLISH- MENT	QUALITY RATINGS							MEAN
				MAY	JUN	JUL	AUG	SEP	OCT		
BIGHORN GT (PST-4BU3)	4.0	73.3	68.3	6.0	5.7	5.0	5.3	5.7	5.7	5.6	
SPARTAN II	5.0	78.3	66.7	6.0	5.7	5.0	5.0	5.7	6.0	5.6	
Beacon (Z6300)	4.7	71.7	70.0	6.0	6.0	5.0	4.7	5.7	5.7	5.5	
PST-4HES	4.3	76.7	63.3	5.0	5.7	5.3	5.0	5.3	5.7	5.3	
GOTHAM	4.3	68.3	53.3	4.7	4.7	4.7	4.0	5.0	5.3	4.7	
NC-HF1	4.7	73.3	53.3	5.0	4.7	4.7	4.0	5.0	5.0	4.7	
LSD VALUE	1.6	23.3	19.4	2.4	1.6	0.8	1.6	2.0	1.5	1.2	
C.V. (%)	14.6	12.6	14.3	18.9	13.4	7.1	15.6	15.0	11.2	10.3	

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. MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  
USING RECYCLED WATER AT PALO ALTO, CA 1/  
2009 DATA

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

NAME	AUG	SEP	OCT	NOV	DEC	MEAN
TREASURE II	8.7	8.7	8.0	8.0	8.0	8.3
FAIRMONT (TCD)	8.3	8.3	8.3	7.7	8.3	8.2
IS-FRR-62	8.7	8.7	8.0	8.0	7.7	8.2
BOREAL	8.0	8.0	8.3	8.3	7.7	8.1
EPIC	8.3	8.3	8.0	7.7	8.3	8.1
IS-FRC-35	8.3	8.3	8.3	8.0	7.7	8.1
LACROSSE	8.3	8.3	7.7	7.7	8.0	8.0
INTRIGUE 2	8.3	8.3	8.0	7.7	7.3	7.9
IS-FRC-33	7.7	7.7	7.7	8.0	8.7	7.9
PST-48Y7	7.7	7.7	8.0	8.0	8.0	7.9
PST-4HES	8.3	8.3	8.3	8.0	6.7	7.9
PSG-5RM	7.7	7.7	8.0	8.0	7.7	7.8
MVS-FRC-101	8.0	8.0	7.7	7.7	7.3	7.7
NC-HF1	7.7	7.7	8.0	8.0	7.3	7.7
PST-4CSD	8.0	8.0	7.7	7.7	7.3	7.7
SPARTAN II	7.7	7.7	7.7	7.7	7.3	7.6
GOTHAM	7.7	7.7	7.7	7.0	7.7	7.5
ZODIAC	7.3	7.3	7.3	7.7	8.0	7.5
ABERDEEN	7.0	7.0	7.0	7.3	8.7	7.4
PSG 50C3	7.7	7.3	7.3	7.0	7.7	7.4
Beacon (Z6300)	7.7	7.7	7.3	7.3	7.0	7.4
MVS-OS-1	6.7	6.7	6.7	7.0	9.0	7.2
BIGHORN GT (PST-4BU3)	7.3	7.3	7.0	7.0	7.0	7.1
CASCADE	7.0	7.0	6.7	7.0	7.7	7.1
IS-FRR-51	7.0	6.3	6.7	6.3	8.0	6.9
LSD VALUE	2.2	2.4	2.3	2.1	1.1	1.5
C.V. (%)	10.5	11.6	10.8	9.8	7.5	7.4

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 8B. MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  
USING RECYCLED WATER AT PALO ALTO, CA 1/  
2009 DATA

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

NAME	AUG	SEP	OCT	NOV	DEC	MEAN
TREAZURE II	8.7	8.7	8.0	8.0	8.0	8.3
FAIRMONT (TCD)	8.3	8.3	8.3	7.7	8.3	8.2
IS-FRC-35	8.3	8.3	8.3	8.0	7.7	8.1
LACROSSE	8.3	8.3	7.7	7.7	8.0	8.0
INTRIGUE 2	8.3	8.3	8.0	7.7	7.3	7.9
IS-FRC-33	7.7	7.7	7.7	8.0	8.7	7.9
MVS-FRC-101	8.0	8.0	7.7	7.7	7.3	7.7
PST-4CSD	8.0	8.0	7.7	7.7	7.3	7.7
ZODIAC	7.3	7.3	7.3	7.7	8.0	7.5
PSG 50C3	7.7	7.3	7.3	7.0	7.7	7.4
CASCADE	7.0	7.0	6.7	7.0	7.7	7.1
LSD VALUE	2.6	2.9	2.6	2.2	1.2	1.8
C.V. (%)	12.1	13.3	12.2	10.1	6.8	8.5

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

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

TABLE 8C. MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
USING RECYCLED WATER AT PALO ALTO, CA 1/  
2009 DATA

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

NAME	AUG	SEP	OCT	NOV	DEC	MEAN
IS-FRR-62	8.7	8.7	8.0	8.0	7.7	8.2
BOREAL	8.0	8.0	8.3	8.3	7.7	8.1
EPIC	8.3	8.3	8.0	7.7	8.3	8.1
PST-48Y7	7.7	7.7	8.0	8.0	8.0	7.9
PSG-5RM	7.7	7.7	8.0	8.0	7.7	7.8
ABERDEEN	7.0	7.0	7.0	7.3	8.7	7.4
MVS-OS-1	6.7	6.7	6.7	7.0	9.0	7.2
IS-FRR-51	7.0	6.3	6.7	6.3	8.0	6.9
LSD VALUE	1.4	1.6	1.8	1.5	1.3	1.1
C.V. (%)	9.3	10.9	10.8	9.7	7.4	6.8

TABLE 8D. MEAN TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS  
USING RECYCLED WATER AT PALO ALTO, CA 1/  
2009 DATA

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

NAME	AUG	SEP	OCT	NOV	DEC	MEAN
PST-4HES	8.3	8.3	8.3	8.0	6.7	7.9
NC-HF1	7.7	7.7	8.0	8.0	7.3	7.7
SPARTAN II	7.7	7.7	7.7	7.7	7.3	7.6
GOTHAM	7.7	7.7	7.7	7.0	7.7	7.5
Beacon (Z6300)	7.7	7.7	7.3	7.3	7.0	7.4
BIGHORN GT (PST-4BU3)	7.3	7.3	7.0	7.0	7.0	7.1
LSD VALUE	1.3	1.3	0.7	1.6	1.1	0.9
C.V. (%)	7.0	7.0	4.8	9.4	6.7	5.4

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

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

TABLE 9A.

GENETIC COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	CA1	IL1	MN1	NE1	PA1	RI1	UT1	WA3	MEAN
PSG 50C3	8.0	6.7	7.3	8.3	6.7	4.3	6.0	7.3	6.8
MVS-FRC-101	7.3	6.3	7.3	8.7	6.3	3.7	7.3	7.3	6.8
PSG-5RM	8.7	6.7	5.3	8.7	6.0	4.0	7.7	7.3	6.8
MVS-OS-1	8.0	6.7	5.0	8.0	6.3	4.3	7.7	7.7	6.7
PST-48Y7	7.7	6.3	5.3	7.3	6.0	5.3	8.0	7.0	6.6
FAIRMONT (TCD)	8.0	6.0	6.7	6.7	7.0	5.0	6.7	6.7	6.6
CASCADE	8.0	6.7	6.0	7.0	7.3	4.0	6.0	7.0	6.5
IS-FRR-51	7.7	6.3	5.0	8.0	6.0	4.3	7.0	7.7	6.5
LACROSSE	7.7	6.7	5.7	7.7	6.3	4.7	6.0	7.3	6.5
SPARTAN II	7.3	6.3	4.0	7.7	7.7	5.0	5.7	7.3	6.4
ABERDEEN	8.3	6.0	4.0	8.3	6.3	4.7	6.0	7.0	6.3
BIGHORN GT (PST-4BU3)	9.0	6.3	7.3	5.3	8.0	5.0	2.7	7.0	6.3
GOTHAM	8.7	6.3	3.7	7.3	7.3	5.0	5.7	6.7	6.3
NC-HF1	8.3	6.3	3.3	7.3	8.0	5.0	5.3	7.0	6.3
PST-4CSD	8.0	6.0	7.0	6.3	7.3	4.0	5.7	6.3	6.3
IS-FRC-33	7.7	6.3	6.0	7.7	6.3	4.7	5.3	6.3	6.3
IS-FRC-35	8.0	6.7	5.7	7.7	6.0	5.0	4.3	5.3	6.1
IS-FRR-62	7.0	6.0	5.0	8.3	4.3	4.0	7.0	7.0	6.1
EPIC	7.3	6.0	4.3	7.3	5.3	5.0	5.7	6.3	5.9
ZODIAC	7.0	6.0	6.0	7.0	6.7	3.7	4.7	6.3	5.9
PST-4HES	7.7	6.0	3.7	6.7	7.7	4.7	4.0	6.3	5.8
TREAZURE II	7.0	6.3	5.0	6.7	5.3	5.7	4.7	6.0	5.8
INTRIGUE 2	8.0	6.7	5.0	6.7	6.0	3.7	4.3	6.0	5.8
Beacon (Z6300)	7.7	6.0	3.0	8.3	7.3	3.0	5.0	6.0	5.8
BOREAL	7.0	5.7	2.0	5.7	4.7	6.7	3.7	5.0	5.0
LSD VALUE	1.6	0.8	1.0	1.7	1.2	2.1	1.7	1.0	0.5
C.V. (%)	12.4	8.2	12.3	14.1	11.4	28.1	18.1	9.4	14.2

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

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

TABLE 9B. GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/

2009 DATA

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

NAME	CA1	IL1	MN1	NE1	PA1	RI1	UT1	WA3	MEAN
PSG 50C3	8.0	6.7	7.3	8.3	6.7	4.3	6.0	7.3	6.8
MVS-FRC-101	7.3	6.3	7.3	8.7	6.3	3.7	7.3	7.3	6.8
FAIRMONT (TCD)	8.0	6.0	6.7	6.7	7.0	5.0	6.7	6.7	6.6
CASCADE	8.0	6.7	6.0	7.0	7.3	4.0	6.0	7.0	6.5
LACROSSE	7.7	6.7	5.7	7.7	6.3	4.7	6.0	7.3	6.5
PST-4CSD	8.0	6.0	7.0	6.3	7.3	4.0	5.7	6.3	6.3
IS-FRC-33	7.7	6.3	6.0	7.7	6.3	4.7	5.3	6.3	6.3
IS-FRC-35	8.0	6.7	5.7	7.7	6.0	5.0	4.3	5.3	6.1
ZODIAC	7.0	6.0	6.0	7.0	6.7	3.7	4.7	6.3	5.9
TREAZURE II	7.0	6.3	5.0	6.7	5.3	5.7	4.7	6.0	5.8
INTRIGUE 2	8.0	6.7	5.0	6.7	6.0	3.7	4.3	6.0	5.8
LSD VALUE	1.7	0.9	1.3	1.9	1.2	1.7	1.4	1.2	0.5
C.V. (%)	13.6	9.0	12.7	16.0	11.1	24.1	16.0	11.0	14.1

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

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



TABLE 9C. GENETIC COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	CA1	IL1	MN1	NE1	PA1	RI1	UT1	WA3	MEAN
PSG-5RM	8.7	6.7	5.3	8.7	6.0	4.0	7.7	7.3	6.8
MVS-OS-1	8.0	6.7	5.0	8.0	6.3	4.3	7.7	7.7	6.7
PST-48Y7	7.7	6.3	5.3	7.3	6.0	5.3	8.0	7.0	6.6
IS-FRR-51	7.7	6.3	5.0	8.0	6.0	4.3	7.0	7.7	6.5
ABERDEEN	8.3	6.0	4.0	8.3	6.3	4.7	6.0	7.0	6.3
IS-FRR-62	7.0	6.0	5.0	8.3	4.3	4.0	7.0	7.0	6.1
EPIC	7.3	6.0	4.3	7.3	5.3	5.0	5.7	6.3	5.9
BOREAL	7.0	5.7	2.0	5.7	4.7	6.7	3.7	5.0	5.0
LSD VALUE	1.4	0.7	0.6	1.6	1.2	2.7	2.0	1.0	0.5
C.V. (%)	10.9	7.4	7.9	13.0	13.6	35.1	18.9	9.4	15.4

TABLE 9D. GENETIC COLOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	CA1	IL1	MN1	NE1	PA1	RI1	UT1	WA3	MEAN
SPARTAN II	7.3	6.3	4.0	7.7	7.7	5.0	5.7	7.3	6.4
BIGHORN GT (PST-4BU3)	9.0	6.3	7.3	5.3	8.0	5.0	2.7	7.0	6.3
GOTHAM	8.7	6.3	3.7	7.3	7.3	5.0	5.7	6.7	6.3
NC-HF1	8.3	6.3	3.3	7.3	8.0	5.0	5.3	7.0	6.3
PST-4HES	7.7	6.0	3.7	6.7	7.7	4.7	4.0	6.3	5.8
Beacon (Z6300)	7.7	6.0	3.0	8.3	7.3	3.0	5.0	6.0	5.8
LSD VALUE	1.6	0.8	1.0	1.3	1.2	1.7	1.5	0.7	0.4
C.V. (%)	12.0	7.6	15.0	11.5	9.7	22.3	20.0	6.1	12.7

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

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

TABLE 10A. SPRING GREENUP RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	IL1	NE1	MEAN
FAIRMONT (TCD)	7.3	6.7	7.0
ZODIAC	6.7	7.3	7.0
MVS-FRC-101	7.0	6.7	6.8
IS-FRC-35	6.3	7.3	6.8
TREAZURE II	6.3	7.3	6.8
BIGHORN GT (PST-4BU3)	6.7	6.7	6.7
CASCADE	6.3	7.0	6.7
EPIC	6.3	7.0	6.7
LACROSSE	6.3	7.0	6.7
MVS-OS-1	6.3	7.0	6.7
BOREAL	6.7	6.3	6.5
NC-HF1	6.3	6.7	6.5
PST-4CSD	6.0	7.0	6.5
PST-4HES	6.3	6.7	6.5
ABERDEEN	6.0	6.7	6.3
INTRIGUE 2	6.0	6.7	6.3
PSG 50C3	5.7	7.0	6.3
IS-FRR-51	6.3	6.3	6.3
Beacon (Z6300)	5.3	7.3	6.3
PSG-5RM	5.7	6.7	6.2
PST-48Y7	6.3	6.0	6.2
SPARTAN II	6.3	6.0	6.2
GOTHAM	5.7	6.3	6.0
IS-FRC-33	5.7	6.3	6.0
IS-FRR-62	5.7	6.3	6.0
LSD VALUE	1.2	1.2	0.8
C.V. (%)	12.0	11.0	11.5

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 10B. SPRING GREENUP RATINGS OF CHEWINGS FESCUE CULTIVARS 1/

2009 DATA

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

NAME	IL1	NE1	MEAN
FAIRMONT (TCD)	7.3	6.7	7.0
ZODIAC	6.7	7.3	7.0
MVS-FRC-101	7.0	6.7	6.8
IS-FRC-35	6.3	7.3	6.8
TREAZURE II	6.3	7.3	6.8
CASCADE	6.3	7.0	6.7
LACROSSE	6.3	7.0	6.7
PST-4CSD	6.0	7.0	6.5
INTRIGUE 2	6.0	6.7	6.3
PSG 50C3	5.7	7.0	6.3
IS-FRC-33	5.7	6.3	6.0
LSD VALUE	1.3	1.2	0.9
C.V. (%)	12.3	10.9	11.6

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

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

TABLE 10C. SPRING GREENUP RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	IL1	NE1	MEAN
EPIC	6.3	7.0	6.7
MVS-OS-1	6.3	7.0	6.7
BOREAL	6.7	6.3	6.5
ABERDEEN	6.0	6.7	6.3
IS-FRR-51	6.3	6.3	6.3
PSG-5RM	5.7	6.7	6.2
PST-48Y7	6.3	6.0	6.2
IS-FRR-62	5.7	6.3	6.0
LSD VALUE	1.0	1.1	0.8
C.V. (%)	10.5	10.3	10.4

TABLE 10D. SPRING GREENUP RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	IL1	NE1	MEAN
BIGHORN GT (PST-4BU3)	6.7	6.7	6.7
NC-HF1	6.3	6.7	6.5
PST-4HES	6.3	6.7	6.5
Beacon (Z6300)	5.3	7.3	6.3
SPARTAN II	6.3	6.0	6.2
GOTHAM	5.7	6.3	6.0
LSD VALUE	1.3	1.3	0.9
C.V. (%)	13.4	11.8	12.6

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

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

TABLE 11A. SEEDLING VIGOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	NY1	PA1	WA3	MEAN
FAIRMONT (TCD)	6.0	9.0	7.7	7.6
ZODIAC	5.3	7.7	8.0	7.0
MVS-FRC-101	5.7	7.3	7.3	6.8
EPIC	6.3	6.3	6.3	6.3
CASCADE	6.0	5.0	7.0	6.0
TREAZURE II	5.3	6.3	6.3	6.0
Beacon (Z6300)	6.0	6.7	5.3	6.0
IS-FRR-62	7.0	5.0	5.7	5.9
BIGHORN GT (PST-4BU3)	5.0	7.3	5.3	5.9
INTRIGUE 2	6.3	5.3	6.0	5.9
GOTHAM	5.3	6.3	5.7	5.8
LACROSSE	6.0	4.3	6.7	5.7
IS-FRR-51	5.0	5.7	6.0	5.6
MVS-OS-1	5.3	6.0	5.3	5.6
IS-FRC-33	6.0	4.7	5.7	5.4
IS-FRC-35	5.3	3.7	6.7	5.2
ABERDEEN	5.0	4.0	6.0	5.0
PST-4HES	4.0	6.0	5.0	5.0
SPARTAN II	6.0	4.3	4.3	4.9
PSG-5RM	4.7	4.3	5.0	4.7
PSG 50C3	4.7	3.7	5.3	4.6
PST-48Y7	6.0	3.0	4.0	4.3
PST-4CSD	4.3	3.7	4.3	4.1
NC-HF1	4.0	3.7	3.7	3.8
BOREAL	2.3	4.3	3.7	3.4
LSD VALUE	2.2	1.2	1.5	1.0
C.V. (%)	25.8	13.5	16.4	19.1

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

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

TABLE 11B. SEEDLING VIGOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	NY1	PA1	WA3	MEAN
FAIRMONT (TCD)	6.0	9.0	7.7	7.6
ZODIAC	5.3	7.7	8.0	7.0
MVS-FRC-101	5.7	7.3	7.3	6.8
CASCADE	6.0	5.0	7.0	6.0
TREAZURE II	5.3	6.3	6.3	6.0
INTRIGUE 2	6.3	5.3	6.0	5.9
LACROSSE	6.0	4.3	6.7	5.7
IS-FRC-33	6.0	4.7	5.7	5.4
IS-FRC-35	5.3	3.7	6.7	5.2
PSG 50C3	4.7	3.7	5.3	4.6
PST-4CSD	4.3	3.7	4.3	4.1
LSD VALUE	2.4	1.1	1.4	1.0
C.V. (%)	27.4	12.2	13.8	18.6

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

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

TABLE 11C. SEEDLING VIGOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	NY1	PA1	WA3	MEAN
EPIC	6.3	6.3	6.3	6.3
IS-FRR-62	7.0	5.0	5.7	5.9
IS-FRR-51	5.0	5.7	6.0	5.6
MVS-OS-1	5.3	6.0	5.3	5.6
ABERDEEN	5.0	4.0	6.0	5.0
PSG-5RM	4.7	4.3	5.0	4.7
PST-48Y7	6.0	3.0	4.0	4.3
BOREAL	2.3	4.3	3.7	3.4
LSD VALUE	1.5	1.3	1.6	0.9
C.V. (%)	18.4	16.9	19.4	18.4

TABLE 11D. SEEDLING VIGOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	NY1	PA1	WA3	MEAN
Beacon (Z6300)	6.0	6.7	5.3	6.0
BIGHORN GT (PST-4BU3)	5.0	7.3	5.3	5.9
GOTHAM	5.3	6.3	5.7	5.8
PST-4HES	4.0	6.0	5.0	5.0
SPARTAN II	6.0	4.3	4.3	4.9
NC-HF1	4.0	3.7	3.7	3.8
LSD VALUE	2.5	1.1	1.4	1.0
C.V. (%)	30.6	11.7	18.0	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 12A. SPRING DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
CASCADE	7.0	9.0	8.0
ZODIAC	7.3	8.3	7.8
IS-FRC-35	7.0	8.7	7.8
EPIC	6.3	9.0	7.7
INTRIGUE 2	6.7	8.7	7.7
IS-FRC-33	6.7	8.7	7.7
PST-4CSD	6.7	8.3	7.5
FAIRMONT (TCD)	7.0	8.0	7.5
LACROSSE	6.7	8.0	7.3
MVS-FRC-101	7.0	7.7	7.3
MVS-OS-1	7.0	7.7	7.3
ABERDEEN	6.0	8.7	7.3
TREAZURE II	6.0	8.7	7.3
IS-FRR-51	6.7	7.7	7.2
IS-FRR-62	6.0	8.3	7.2
PSG 50C3	7.0	7.3	7.2
BOREAL	5.7	8.3	7.0
Beacon (Z6300)	7.0	7.0	7.0
BIGHORN GT (PST-4BU3)	6.0	7.7	6.8
PSG-5RM	6.0	7.7	6.8
SPARTAN II	6.7	7.0	6.8
PST-4HES	6.3	7.3	6.8
GOTHAM	6.0	7.0	6.5
NC-HF1	6.0	7.0	6.5
PST-48Y7	5.0	8.0	6.5
LSD VALUE	1.6	1.0	1.0
C.V. (%)	15.6	8.0	11.7

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

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



TABLE 12B. SPRING DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
CASCADE	7.0	9.0	8.0
ZODIAC	7.3	8.3	7.8
IS-FRC-35	7.0	8.7	7.8
INTRIGUE 2	6.7	8.7	7.7
IS-FRC-33	6.7	8.7	7.7
FAIRMONT (TCD)	7.0	8.0	7.5
PST-4CSD	6.7	8.3	7.5
LACROSSE	6.7	8.0	7.3
MVS-FRC-101	7.0	7.7	7.3
TREAZURE II	6.0	8.7	7.3
PSG 50C3	7.0	7.3	7.2
LSD VALUE	1.7	0.8	0.9
C.V. (%)	15.1	5.9	10.7

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

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

TABLE 12C. SPRING DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
EPIC	6.3	9.0	7.7
MVS-OS-1	7.0	7.7	7.3
ABERDEEN	6.0	8.7	7.3
IS-FRR-51	6.7	7.7	7.2
IS-FRR-62	6.0	8.3	7.2
BOREAL	5.7	8.3	7.0
PSG-5RM	6.0	7.7	6.8
PST-48Y7	5.0	8.0	6.5
LSD VALUE	1.7	1.3	1.1
C.V. (%)	17.4	9.7	13.1

TABLE 12D. SPRING DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
Beacon (Z6300)	7.0	7.0	7.0
BIGHORN GT (PST-4BU3)	6.0	7.7	6.8
SPARTAN II	6.7	7.0	6.8
PST-4HES	6.3	7.3	6.8
GOTHAM	6.0	7.0	6.5
NC-HF1	6.0	7.0	6.5
LSD VALUE	1.4	1.1	0.9
C.V. (%)	13.9	9.3	11.6

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

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

TABLE 13A. SUMMER DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
PSG 50C3	8.3	9.0	8.7
IS-FRR-51	8.3	8.7	8.5
PST-4CSD	8.0	9.0	8.5
FAIRMONT (TCD)	8.0	9.0	8.5
ZODIAC	7.7	9.0	8.3
IS-FRC-35	7.3	9.0	8.2
LACROSSE	7.3	9.0	8.2
MVS-FRC-101	7.3	9.0	8.2
NC-HF1	7.7	8.7	8.2
PSG-5RM	7.3	9.0	8.2
PST-4HES	7.3	9.0	8.2
GOTHAM	7.0	9.0	8.0
INTRIGUE 2	7.0	9.0	8.0
IS-FRR-62	7.3	8.7	8.0
MVS-OS-1	7.3	8.7	8.0
BIGHORN GT (PST-4BU3)	6.7	9.0	7.8
CASCADE	6.7	9.0	7.8
TREAZURE II	6.7	9.0	7.8
SPARTAN II	7.0	8.7	7.8
Beacon (Z6300)	7.0	8.3	7.7
IS-FRC-33	6.3	9.0	7.7
PST-48Y7	6.7	8.7	7.7
ABERDEEN	6.7	8.3	7.5
EPIC	6.3	8.7	7.5
BOREAL	6.7	8.0	7.3
LSD VALUE	1.7	0.6	0.9
C.V. (%)	14.5	3.9	9.7

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

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

TABLE 13B. SUMMER DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
PSG 50C3	8.3	9	8.7
FAIRMONT (TCD)	8.0	9	8.5
PST-4CSD	8.0	9	8.5
ZODIAC	7.7	9	8.3
IS-FRC-35	7.3	9	8.2
LACROSSE	7.3	9	8.2
MVS-FRC-101	7.3	9	8.2
INTRIGUE 2	7.0	9	8.0
CASCADE	6.7	9	7.8
TREAZURE II	6.7	9	7.8
IS-FRC-33	6.3	9	7.7
LSD VALUE	1.7	0	0.8
C.V. (%)	14.0	0	8.9

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

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

TABLE 13C. SUMMER DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
IS-FRR-51	8.3	8.7	8.5
PSG-5RM	7.3	9.0	8.2
IS-FRR-62	7.3	8.7	8.0
MVS-OS-1	7.3	8.7	8.0
PST-48Y7	6.7	8.7	7.7
ABERDEEN	6.7	8.3	7.5
EPIC	6.3	8.7	7.5
BOREAL	6.7	8.0	7.3
LSD VALUE	1.9	0.8	1.0
C.V. (%)	16.3	5.8	11.4

TABLE 13D. SUMMER DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1	WA3	MEAN
NC-HF1	7.7	8.7	8.2
PST-4HES	7.3	9.0	8.2
GOTHAM	7.0	9.0	8.0
BIGHORN GT (PST-4BU3)	6.7	9.0	7.8
SPARTAN II	7.0	8.7	7.8
Beacon (Z6300)	7.0	8.3	7.7
LSD VALUE	1.5	0.7	0.8
C.V. (%)	12.8	4.7	8.9

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

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

TABLE 14A. FALL DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1
IS-FRC-33	8.0
IS-FRR-51	8.0
IS-FRR-62	8.0
MVS-OS-1	8.0
FAIRMONT (TCD)	8.0
ABERDEEN	7.7
CASCADE	7.7
INTRIGUE 2	7.7
IS-FRC-35	7.7
LACROSSE	7.7
MVS-FRC-101	7.7
NC-HF1	7.7
PSG 50C3	7.7
PST-4CSD	7.7
SPARTAN II	7.7
ZODIAC	7.7
BIGHORN GT (PST-4BU3)	7.3
EPIC	7.3
PSG-5RM	7.3
PST-48Y7	7.3
Beacon (Z6300)	7.3
PST-4HES	7.0
BOREAL	6.7
GOTHAM	6.7
TREAZURE II	6.7
LSD VALUE	1.6
C.V. (%)	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 14B. FALL DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1
FAIRMONT (TCD)	8.0
IS-FRC-33	8.0
CASCADE	7.7
INTRIGUE 2	7.7
IS-FRC-35	7.7
LACROSSE	7.7
MVS-FRC-101	7.7
PSG 50C3	7.7
PST-4CSD	7.7
ZODIAC	7.7
TREAZURE II	6.7
LSD VALUE	1.5
C.V. (%)	12.5

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

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

TABLE 14C. FALL DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1
IS-FRR-51	8.0
IS-FRR-62	8.0
MVS-OS-1	8.0
ABERDEEN	7.7
EPIC	7.3
PSG-5RM	7.3
PST-48Y7	7.3
BOREAL	6.7
LSD VALUE	1.8
C.V. (%)	14.6

TABLE 14D. FALL DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	NE1
NC-HF1	7.7
SPARTAN II	7.7
BIGHORN GT (PST-4BU3)	7.3
Beacon (Z6300)	7.3
PST-4HES	7.0
GOTHAM	6.7
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 15A. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	VA1	WA3	WI1	MEAN
MVS-FRC-101	91.3	98.0	96.0	95.1
ZODIAC	91.0	99.0	94.3	94.8
TREAZURE II	91.3	99.0	92.3	94.2
INTRIGUE 2	89.7	99.0	91.7	93.4
IS-FRC-33	85.7	98.7	93.3	92.6
PSG 50C3	90.3	97.7	88.3	92.1
LACROSSE	91.0	96.3	88.3	91.9
PSG-5RM	91.0	95.0	89.0	91.7
ABERDEEN	87.0	95.0	92.3	91.4
IS-FRC-35	85.0	98.7	90.0	91.2
SPARTAN II	95.3	98.3	80.0	91.2
FAIRMONT (TCD)	85.0	96.3	91.7	91.0
IS-FRR-51	90.7	93.3	88.3	90.8
IS-FRR-62	89.0	93.3	90.0	90.8
CASCADE	91.0	98.3	81.7	90.3
PST-48Y7	91.7	93.3	85.7	90.2
MVS-OS-1	87.3	93.3	90.0	90.2
EPIC	91.0	92.7	86.0	89.9
Beacon (Z6300)	93.0	98.0	76.7	89.2
BOREAL	89.3	90.0	86.7	88.7
PST-4CSD	90.3	98.0	76.7	88.3
PST-4HES	92.3	98.3	70.0	86.9
NC-HF1	90.7	97.3	70.0	86.0
GOTHAM	88.7	97.3	68.3	84.8
BIGHORN GT (PST-4BU3)	94.3	98.7	53.3	82.1
LSD VALUE	7.9	2.8	16.0	6.0
C.V. (%)	5.4	1.8	11.8	7.2

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 15B. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	VA1	WA3	WI1	MEAN
MVS-FRC-101	91.3	98.0	96.0	95.1
ZODIAC	91.0	99.0	94.3	94.8
TREAZURE II	91.3	99.0	92.3	94.2
INTRIGUE 2	89.7	99.0	91.7	93.4
IS-FRC-33	85.7	98.7	93.3	92.6
PSG 50C3	90.3	97.7	88.3	92.1
LACROSSE	91.0	96.3	88.3	91.9
IS-FRC-35	85.0	98.7	90.0	91.2
FAIRMONT (TCD)	85.0	96.3	91.7	91.0
CASCADE	91.0	98.3	81.7	90.3
PST-4CSD	90.3	98.0	76.7	88.3
LSD VALUE	7.4	1.8	5.6	3.2
C.V. (%)	5.2	1.2	3.9	3.7

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 15C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	VA1	WA3	WI1	MEAN
PSG-5RM	91.0	95.0	89.0	91.7
ABERDEEN	87.0	95.0	92.3	91.4
IS-FRR-51	90.7	93.3	88.3	90.8
IS-FRR-62	89.0	93.3	90.0	90.8
PST-48Y7	91.7	93.3	85.7	90.2
MVS-OS-1	87.3	93.3	90.0	90.2
EPIC	91.0	92.7	86.0	89.9
BOREAL	89.3	90.0	86.7	88.7
LSD VALUE	8.8	4.2	11.1	4.9
C.V. (%)	6.1	2.8	7.8	5.9

TABLE 15D. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	VA1	WA3	WI1	MEAN
SPARTAN II	95.3	98.3	80.0	91.2
Beacon (Z6300)	93.0	98.0	76.7	89.2
PST-4HES	92.3	98.3	70.0	86.9
NC-HF1	90.7	97.3	70.0	86.0
GOTHAM	88.7	97.3	68.3	84.8
BIGHORN GT (PST-4BU3)	94.3	98.7	53.3	82.1
LSD VALUE	7.5	2.0	29.0	10.0
C.V. (%)	5.1	1.3	25.9	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 16A. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	WA3	WI1	MEAN
IS-FRC-33	93.0	99.0	85.0	92.3
TREAZURE II	90.0	97.7	83.3	90.3
PSG-5RM	99.0	97.7	73.3	90.0
FAIRMONT (TCD)	96.0	99.0	73.3	89.4
MVS-OS-1	96.3	97.7	73.3	89.1
ZODIAC	88.0	99.0	80.0	89.0
MVS-FRC-101	90.0	97.7	78.3	88.7
IS-FRR-51	96.0	97.7	70.0	87.9
IS-FRC-35	88.3	98.3	76.7	87.8
IS-FRR-62	88.3	99.0	73.3	86.9
INTRIGUE 2	94.7	99.0	66.7	86.8
LACROSSE	96.0	99.0	61.7	85.6
PST-48Y7	96.0	97.7	58.3	84.0
EPIC	90.0	99.0	61.7	83.6
PSG 50C3	86.7	99.0	63.3	83.0
ABERDEEN	93.0	97.7	56.7	82.4
CASCADE	89.7	97.7	50.0	79.1
PST-4CSD	88.0	97.7	50.0	78.6
PST-4HES	96.0	97.7	36.7	76.8
Beacon (Z6300)	96.0	99.0	33.3	76.1
BOREAL	88.0	95.0	43.3	75.4
SPARTAN II	93.0	96.3	36.7	75.3
NC-HF1	96.0	99.0	30.0	75.0
GOTHAM	99.0	97.7	23.3	73.3
BIGHORN GT (PST-4BU3)	96.3	93.0	26.7	72.0
LSD VALUE	9.1	3.1	25.9	9.2
C.V. (%)	6.1	2.0	27.4	11.9

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 16B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	WA3	WI1	MEAN
IS-FRC-33	93.0	99.0	85.0	92.3
TREAZURE II	90.0	97.7	83.3	90.3
FAIRMONT (TCD)	96.0	99.0	73.3	89.4
ZODIAC	88.0	99.0	80.0	89.0
MVS-FRC-101	90.0	97.7	78.3	88.7
IS-FRC-35	88.3	98.3	76.7	87.8
INTRIGUE 2	94.7	99.0	66.7	86.8
LACROSSE	96.0	99.0	61.7	85.6
PSG 50C3	86.7	99.0	63.3	83.0
CASCADE	89.7	97.7	50.0	79.1
PST-4CSD	88.0	97.7	50.0	78.6
LSD VALUE	10.3	2.3	20.9	7.8
C.V. (%)	7.1	1.5	18.6	9.7

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

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

TABLE 16C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	WA3	WI1	MEAN
PSG-5RM	99.0	97.7	73.3	90.0
MVS-OS-1	96.3	97.7	73.3	89.1
IS-FRR-51	96.0	97.7	70.0	87.9
IS-FRR-62	88.3	99.0	73.3	86.9
PST-48Y7	96.0	97.7	58.3	84.0
EPIC	90.0	99.0	61.7	83.6
ABERDEEN	93.0	97.7	56.7	82.4
BOREAL	88.0	95.0	43.3	75.4
LSD VALUE	8.8	2.9	28.1	9.9
C.V. (%)	5.9	1.9	27.4	12.5

TABLE 16D. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	WA3	WI1	MEAN
PST-4HES	96.0	97.7	36.7	76.8
Beacon (Z6300)	96.0	99.0	33.3	76.1
SPARTAN II	93.0	96.3	36.7	75.3
NC-HF1	96.0	99.0	30.0	75.0
GOTHAM	99.0	97.7	23.3	73.3
BIGHORN GT (PST-4BU3)	96.3	93.0	26.7	72.0
LSD VALUE	7.0	4.3	30.6	10.5
C.V. (%)	4.5	2.8	61.1	15.2

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

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

TABLE 17A. PERCENT LIVING GROUND COVER (FALL) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IL1	PA1	WI1	MEAN
TREAZURE II	93.3	99.0	97.0	96.4
ZODIAC	92.7	98.7	94.7	95.3
IS-FRR-62	93.3	99.0	93.3	95.2
IS-FRC-35	97.7	96.0	90.0	94.6
INTRIGUE 2	94.7	97.7	89.3	93.9
MVS-OS-1	93.3	97.7	90.0	93.7
IS-FRC-33	90.0	97.7	90.0	92.6
IS-FRR-51	88.3	99.0	90.0	92.4
PSG-5RM	90.0	99.0	88.3	92.4
PST-4CSD	85.0	96.3	86.7	89.3
PST-48Y7	80.0	99.0	86.7	88.6
LACROSSE	80.0	98.7	86.7	88.4
EPIC	83.3	99.0	80.0	87.4
FAIRMONT (TCD)	88.3	93.3	80.7	87.4
ABERDEEN	81.7	96.0	81.7	86.4
MVS-FRC-101	85.0	89.3	85.0	86.4
PSG 50C3	91.3	88.0	80.0	86.4
CASCADE	90.0	93.0	75.0	86.0
BOREAL	75.0	97.7	75.0	82.6
PST-4HES	53.3	99.0	65.0	72.4
Beacon (Z6300)	46.7	99.0	60.0	68.6
NC-HF1	43.3	97.7	63.3	68.1
GOTHAM	50.0	99.0	50.0	66.3
SPARTAN II	31.7	99.0	66.7	65.8
BIGHORN GT (PST-4BU3)	41.7	99.0	53.3	64.7
LSD VALUE	16.0	5.3	18.6	8.4
C.V. (%)	12.8	3.4	14.5	10.6

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

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

TABLE 17B. PERCENT LIVING GROUND COVER (FALL) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	PA1	WI1	MEAN
TREAZURE II	93.3	99.0	97.0	96.4
ZODIAC	92.7	98.7	94.7	95.3
IS-FRC-35	97.7	96.0	90.0	94.6
INTRIGUE 2	94.7	97.7	89.3	93.9
IS-FRC-33	90.0	97.7	90.0	92.6
PST-4CSD	85.0	96.3	86.7	89.3
LACROSSE	80.0	98.7	86.7	88.4
FAIRMONT (TCD)	88.3	93.3	80.7	87.4
MVS-FRC-101	85.0	89.3	85.0	86.4
PSG 50C3	91.3	88.0	80.0	86.4
CASCADE	90.0	93.0	75.0	86.0
LSD VALUE	14.9	7.4	14.3	7.3
C.V. (%)	10.3	4.8	10.2	8.7

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

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



TABLE 17C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	PA1	WI1	MEAN
IS-FRR-62	93.3	99.0	93.3	95.2
MVS-OS-1	93.3	97.7	90.0	93.7
IS-FRR-51	88.3	99.0	90.0	92.4
PSG-5RM	90.0	99.0	88.3	92.4
PST-48Y7	80.0	99.0	86.7	88.6
EPIC	83.3	99.0	80.0	87.4
ABERDEEN	81.7	96.0	81.7	86.4
BOREAL	75.0	97.7	75.0	82.6
LSD VALUE	11.6	3.5	14.6	6.3
C.V. (%)	8.4	2.2	10.6	7.6

TABLE 17D. PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IL1	PA1	WI1	MEAN
PST-4HES	53.3	99.0	65.0	72.4
Beacon (Z6300)	46.7	99.0	60.0	68.6
NC-HF1	43.3	97.7	63.3	68.1
GOTHAM	50.0	99.0	50.0	66.3
SPARTAN II	31.7	99.0	66.7	65.8
BIGHORN GT (PST-4BU3)	41.7	99.0	53.3	64.7
LSD VALUE	21.9	1.5	28.1	11.9
C.V. (%)	30.7	1.0	29.2	18.9

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. WINTER COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	WA3
MVS-OS-1	7.0
PSG 50C3	7.0
CASCADE	6.7
INTRIGUE 2	6.7
IS-FRC-35	6.7
MVS-FRC-101	6.7
LACROSSE	6.3
PST-4CSD	6.3
FAIRMONT (TCD)	6.3
ABERDEEN	6.0
ZODIAC	6.0
BOREAL	5.7
EPIC	5.7
IS-FRR-62	5.7
PST-48Y7	5.7
BIGHORN GT (PST-4BU3)	5.3
IS-FRC-33	5.3
NC-HF1	5.3
GOTHAM	5.0
IS-FRR-51	5.0
PST-4HES	5.0
SPARTAN II	5.0
TREAZURE II	5.0
PSG-5RM	4.7
Beacon (Z6300)	4.0
LSD VALUE	1.7
C.V. (%)	18.0

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

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

TABLE 18B. WINTER COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	WA3
PSG 50C3	7.0
CASCADE	6.7
INTRIGUE 2	6.7
IS-FRC-35	6.7
MVS-FRC-101	6.7
FAIRMONT (TCD)	6.3
LACROSSE	6.3
PST-4CSD	6.3
ZODIAC	6.0
IS-FRC-33	5.3
TREAZURE II	5.0
LSD VALUE	1.6
C.V. (%)	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 18C. WINTER COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	WA3
MVS-OS-1	7.0
ABERDEEN	6.0
BOREAL	5.7
EPIC	5.7
IS-FRR-62	5.7
PST-48Y7	5.7
IS-FRR-51	5.0
PSG-5RM	4.7
LSD VALUE	1.6
C.V. (%)	17.3

TABLE 18D. WINTER COLOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	WA3
BIGHORN GT (PST-4BU3)	5.3
NC-HF1	5.3
GOTHAM	5.0
PST-4HES	5.0
SPARTAN II	5.0
Beacon (Z6300)	4.0
LSD VALUE	1.9
C.V. (%)	24.3

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

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

TABLE 19A. RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	VA1
PSG 50C3	9.0
PST-4HES	9.0
IS-FRC-33	8.7
MVS-FRC-101	8.7
PSG-5RM	8.7
SPARTAN II	8.7
FAIRMONT (TCD)	8.7
BIGHORN GT (PST-4BU3)	8.0
IS-FRC-35	8.0
NC-HF1	8.0
PST-48Y7	8.0
Beacon (Z6300)	8.0
LACROSSE	7.7
CASCADE	7.3
IS-FRR-62	7.3
PST-4CSD	7.3
TREAZURE II	7.3
INTRIGUE 2	7.0
ZODIAC	7.0
GOTHAM	5.7
IS-FRR-51	5.7
MVS-OS-1	5.7
ABERDEEN	4.7
BOREAL	4.7
EPIC	3.3
LSD VALUE	2.5
C.V. (%)	21.5

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 19B. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	VA1
PSG 50C3	9.0
FAIRMONT (TCD)	8.7
IS-FRC-33	8.7
MVS-FRC-101	8.7
IS-FRC-35	8.0
LACROSSE	7.7
CASCADE	7.3
PST-4CSD	7.3
TREAZURE II	7.3
INTRIGUE 2	7.0
ZODIAC	7.0
LSD VALUE	2.2
C.V. (%)	17.7

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

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

TABLE 19C. RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	VA1
PSG-5RM	8.7
PST-48Y7	8.0
IS-FRR-62	7.3
IS-FRR-51	5.7
MVS-0S-1	5.7
ABERDEEN	4.7
BOREAL	4.7
EPIC	3.3
LSD VALUE	2.6
C.V. (%)	26.6

TABLE 19D. RED THREAD RATINGS OF HARD FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	VA1
PST-4HES	9.0
SPARTAN II	8.7
BIGHORN GT (PST-4BU3)	8.0
NC-HF1	8.0
Beacon (Z6300)	8.0
GOTHAM	5.7
LSD VALUE	2.9
C.V. (%)	22.9

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. BROWN PATCH (WARM TEMPERATURE) RATINGS OF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	VA1
GOTHAM	9.0
IS-FRC-33	9.0
LACROSSE	9.0
PST-48Y7	9.0
SPARTAN II	9.0
FAIRMONT (TCD)	9.0
TREAZURE II	9.0
ZODIAC	9.0
PSG 50C3	8.7
BIGHORN GT (PST-4BU3)	8.3
MVS-FRC-101	8.3
PSG-5RM	8.3
PST-4HES	8.3
NC-HF1	8.0
PST-4CSD	8.0
ABERDEEN	7.7
CASCADE	7.7
INTRIGUE 2	7.7
IS-FRC-35	7.3
IS-FRR-62	7.3
Beacon (Z6300)	7.3
MVS-OS-1	6.7
BOREAL	6.3
IS-FRR-51	6.0
EPIC	5.7
LSD VALUE	2.5
C.V. (%)	19.8

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 20B. BROWN PATCH (WARM TEMPERATURE) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	VA1
FAIRMONT (TCD)	9.0
IS-FRC-33	9.0
LACROSSE	9.0
TREAZURE II	9.0
ZODIAC	9.0
PSG 50C3	8.7
MVS-FRC-101	8.3
PST-4CSD	8.0
CASCADE	7.7
INTRIGUE 2	7.7
IS-FRC-35	7.3
LSD VALUE	2.2
C.V. (%)	15.9

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 20C. BROWN PATCH (WARM TEMPERATURE) RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2009 DATA

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

NAME	VA1
PST-48Y7	9.0
PSG-5RM	8.3
ABERDEEN	7.7
IS-FRR-62	7.3
MVS-0S-1	6.7
BOREAL	6.3
IS-FRR-51	6.0
EPIC	5.7
LSD VALUE	3.2
C.V. (%)	27.6

TABLE 20D. BROWN PATCH (WARM TEMPERATURE) RATINGS OF HARD CULTIVARS 1/  
2009 DATA

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

NAME	VA1
GOTHAM	9.0
SPARTAN II	9.0
BIGHORN GT (PST-4BU3)	8.3
PST-4HES	8.3
NC-HF1	8.0
Beacon (Z6300)	7.3
LSD VALUE	2.3
C.V. (%)	17.0

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 21A. MOWING QUALITY RATINGS OF FESCUE CULTIVARS 1/  
2009 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/

NAME	WA3
GOTHAM	7.7
SPARTAN II	7.7
TREAZURE II	7.3
Beacon (Z6300)	7.3
NC-HF1	7.0
PST-4HES	7.0
ZODIAC	6.7
BIGHORN GT (PST-4BU3)	6.0
IS-FRC-33	6.0
IS-FRC-35	6.0
CASCADE	5.7
INTRIGUE 2	5.7
LACROSSE	5.3
PSG-5RM	5.3
EPIC	5.0
PST-48Y7	5.0
IS-FRR-51	4.7
IS-FRR-62	4.7
PST-4CSD	4.7
BOREAL	4.3
PSG 50C3	4.3
MVS-FRC-101	4.0
FAIRMONT (TCD)	4.0
ABERDEEN	2.7
MVS-OS-1	2.0
LSD VALUE	2.4
C.V. (%)	27.3

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 21B. MOWING QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/

NAME	WA3
TREAZURE II	7.3
ZODIAC	6.7
IS-FRC-33	6.0
IS-FRC-35	6.0
CASCADE	5.7
INTRIGUE 2	5.7
LACROSSE	5.3
PST-4CSD	4.7
PSG 50C3	4.3
FAIRMONT (TCD)	4.0
MVS-FRC-101	4.0
LSD VALUE	2.5
C.V. (%)	28.5

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

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

TABLE 21C. MOWING QUALITY RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2009 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/

NAME	WA3
PSG-5RM	5.3
EPIC	5.0
PST-48Y7	5.0
IS-FRR-51	4.7
IS-FRR-62	4.7
BOREAL	4.3
ABERDEEN	2.7
MVS-OS-1	2.0
LSD VALUE	2.0
C.V. (%)	29.9

TABLE 21D. MOWING QUALITY RATINGS OF HARD CULTIVARS 1/  
2009 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/

NAME	WA3
GOTHAM	7.7
SPARTAN II	7.7
Beacon (Z6300)	7.3
NC-HF1	7.0
PST-4HES	7.0
BIGHORN GT (PST-4BU3)	6.0
LSD VALUE	2.6
C.V. (%)	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 22A. PERCENT ESTABLISHMENT RATINGS OF FESCUE CULTIVARS 1/  
2008 DATA 2/

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
IS-FRR-51	93.0	70.0	80.0	85.0	66.7	88.3	80.5
ZODIAC	83.3	60.0	81.7	91.3	66.7	96.3	79.9
FAIRMONT (TCD)	89.7	63.3	83.3	85.0	66.7	90.0	79.7
IS-FRC-35	86.7	70.0	83.3	83.3	66.7	86.7	79.4
EPIC	81.7	60.0	88.3	86.3	63.3	94.7	79.1
MVS-FRC-101	83.3	63.3	88.3	91.3	56.7	88.3	78.6
IS-FRC-33	89.7	63.3	86.7	88.0	53.3	88.3	78.2
INTRIGUE 2	89.7	56.7	80.0	88.0	63.3	88.3	77.7
TREAZURE II	84.7	53.3	85.0	88.0	63.3	88.3	77.1
PSG-5RM	99.0	50.0	88.3	85.0	53.3	83.3	76.5
CASCADE	90.0	50.0	83.3	95.0	50.0	88.3	76.1
ABERDEEN	91.3	43.3	85.0	86.7	63.3	86.7	76.1
MVS-OS-1	93.0	50.0	81.7	81.7	63.3	86.7	76.1
LACROSSE	92.7	33.3	83.3	93.3	63.3	88.3	75.7
IS-FRR-62	81.7	56.7	86.7	80.0	56.7	88.3	75.0
PSG 50C3	88.0	46.7	88.3	85.0	56.7	83.3	74.7
PST-48Y7	83.3	53.3	73.3	75.0	53.3	80.0	69.7
GOTHAM	96.0	40.0	58.3	83.3	56.7	73.3	67.9
SPARTAN II	89.7	36.7	61.7	83.3	46.7	75.0	65.5
PST-4CSD	83.3	43.3	65.0	80.0	43.3	76.7	65.3
Beacon (Z6300)	84.7	40.0	73.3	81.7	50.0	60.0	64.9
BOREAL	83.3	36.7	56.7	68.3	50.0	73.3	61.4
BIGHORN GT (PST-4BU3)	99.0	28.3	56.7	80.0	43.3	60.0	61.2
PST-4HES	83.3	38.3	48.3	83.3	50.0	60.0	60.6
NC-HF1	93.0	36.7	55.0	65.0	46.7	63.3	59.9
LSD VALUE	12.8	17.6	10.8	15.0	18.5	10.9	5.9
C.V. (%)	9.0	22.0	8.9	11.1	20.3	8.3	12.5

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

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

TABLE 22B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2009 DATA 2/

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
ZODIAC	83.3	60.0	81.7	91.3	66.7	96.3	79.9
FAIRMONT (TCD)	89.7	63.3	83.3	85.0	66.7	90.0	79.7
IS-FRC-35	86.7	70.0	83.3	83.3	66.7	86.7	79.4
MVS-FRC-101	83.3	63.3	88.3	91.3	56.7	88.3	78.6
IS-FRC-33	89.7	63.3	86.7	88.0	53.3	88.3	78.2
INTRIGUE 2	89.7	56.7	80.0	88.0	63.3	88.3	77.7
TREAZURE II	84.7	53.3	85.0	88.0	63.3	88.3	77.1
CASCADE	90.0	50.0	83.3	95.0	50.0	88.3	76.1
LACROSSE	92.7	33.3	83.3	93.3	63.3	88.3	75.7
PSG 50C3	88.0	46.7	88.3	85.0	56.7	83.3	74.7
PST-4CSD	83.3	43.3	65.0	80.0	43.3	76.7	65.3
LSD VALUE	15.2	17.3	9.9	15.4	19.6	8.5	6.1
C.V. (%)	10.8	19.6	7.5	10.9	20.6	6.0	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 22C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2008 DATA 2/

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
IS-FRR-51	93.0	70.0	80.0	85.0	66.7	88.3	80.5
EPIC	81.7	60.0	88.3	86.3	63.3	94.7	79.1
PSG-5RM	99.0	50.0	88.3	85.0	53.3	83.3	76.5
ABERDEEN	91.3	43.3	85.0	86.7	63.3	86.7	76.1
MVS-OS-1	93.0	50.0	81.7	81.7	63.3	86.7	76.1
IS-FRR-62	81.7	56.7	86.7	80.0	56.7	88.3	75.0
PST-48Y7	83.3	53.3	73.3	75.0	53.3	80.0	69.7
BOREAL	83.3	36.7	56.7	68.3	50.0	73.3	61.4
LSD VALUE	9.6	14.3	8.5	16.0	13.1	8.9	4.9
C.V. (%)	6.8	16.9	6.6	12.3	13.9	6.5	10.1

TABLE 22D. PERCENT ESTABLISHMENT RATINGS OF HARD CULTIVARS 1/  
2008 DATA 2/

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
GOTHAM	96.0	40.0	58.3	83.3	56.7	73.3	67.9
SPARTAN II	89.7	36.7	61.7	83.3	46.7	75.0	65.5
Beacon (Z6300)	84.7	40.0	73.3	81.7	50.0	60.0	64.9
BIGHORN GT (PST-4BU3)	99.0	28.3	56.7	80.0	43.3	60.0	61.2
PST-4HES	83.3	38.3	48.3	83.3	50.0	60.0	60.6
NC-HF1	93.0	36.7	55.0	65.0	46.7	63.3	59.9
LSD VALUE	11.6	21.6	14.6	12.4	22.1	16.0	6.9
C.V. (%)	7.9	36.6	15.4	9.7	28.1	15.2	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 23A. PERCENT ESTABLISHMENT RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 AT KINGSTON, RI 2/  
 2009 DATA

NAME	SPRING	SUMMER	MEAN
CASCADE	83.3	90.0	86.7
ZODIAC	86.7	83.3	85.0
INTRIGUE 2	75.0	81.7	78.3
IS-FRC-35	76.7	78.3	77.5
FAIRMONT (TCD)	73.3	78.3	75.8
IS-FRR-51	68.3	76.7	72.5
GOTHAM	63.3	80.0	71.7
MVS-FRC-101	76.7	65.0	70.8
IS-FRC-33	61.7	78.3	70.0
TREAZURE II	71.7	68.3	70.0
ABERDEEN	53.3	85.0	69.2
PST-4HES	50.0	88.3	69.2
EPIC	68.3	68.3	68.3
LACROSSE	66.7	70.0	68.3
IS-FRR-62	58.3	73.3	65.8
MVS-OS-1	61.7	68.3	65.0
SPARTAN II	60.0	68.3	64.2
Beacon (Z6300)	60.0	68.3	64.2
BIGHORN GT (PST-4BU3)	60.0	66.7	63.3
PSG 50C3	58.3	66.7	62.5
PST-48Y7	50.0	75.0	62.5
PST-4CSD	53.3	68.3	60.8
NC-HF1	50.0	60.0	55.0
PSG-5RM	50.0	60.0	55.0
BOREAL	55.0	40.0	47.5
LSD VALUE	15.5	39.9	16.7
C.V. (%)	14.3	21.3	13.3

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

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

TABLE 23B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 AT KINGSTON, RI 2/  
 2009 DATA

NAME	SPRING	SUMMER	MEAN
CASCADE	83.3	90.0	86.7
ZODIAC	86.7	83.3	85.0
INTRIGUE 2	75.0	81.7	78.3
IS-FRC-35	76.7	78.3	77.5
FAIRMONT (TCD)	73.3	78.3	75.8
MVS-FRC-101	76.7	65.0	70.8
IS-FRC-33	61.7	78.3	70.0
TREAZURE II	71.7	68.3	70.0
LACROSSE	66.7	70.0	68.3
PSG 50C3	58.3	66.7	62.5
PST-4CSD	53.3	68.3	60.8
LSD VALUE	16.9	33.5	13.6
C.V. (%)	12.9	17.5	10.1

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

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

TABLE 23C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
 AT KINGSTON, RI 2/  
 2009 DATA

NAME	SPRING	SUMMER	MEAN
IS-FRR-51	68.3	76.7	72.5
ABERDEEN	53.3	85.0	69.2
EPIC	68.3	68.3	68.3
IS-FRR-62	58.3	73.3	65.8
MVS-QS-1	61.7	68.3	65.0
PST-48Y7	50.0	75.0	62.5
PSG-5RM	50.0	60.0	55.0
BOREAL	55.0	40.0	47.5
LSD VALUE	20.8	31.4	19.0
C.V. (%)	16.2	22.0	14.4

TABLE 23D. PERCENT ESTABLISHMENT RATINGS OF HARD FESCUE CULTIVARS 1/  
 AT KINGSTON, RI 2/  
 2009 DATA

NAME	SPRING	SUMMER	MEAN
GOTHAM	63.3	80.0	71.7
PST-4HES	50.0	88.3	69.2
SPARTAN II	60.0	68.3	64.2
Beacon (Z6300)	60.0	68.3	64.2
BIGHORN GT (PST-4BU3)	60.0	66.7	63.3
NC-HF1	50.0	60.0	55.0
LSD VALUE	18.4	35.0	21.9
C.V. (%)	14.2	21.3	14.5

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 24A. PERCENT ESTABLISHMENT RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 AT BLACKSBURG, VA 2/  
 2008 DATA

NAME	6 WEEKS	10 WEEKS	MEAN
CASCADE	58.3	81.7	70.0
Beacon (Z6300)	56.7	78.3	67.5
INTRIGUE 2	56.7	75.0	65.8
LACROSSE	56.7	73.3	65.0
MVS-FRC-101	55.0	75.0	65.0
EPIC	53.3	75.0	64.2
SPARTAN II	51.7	76.7	64.2
GOTHAM	51.7	73.3	62.5
PSG 50C3	51.7	73.3	62.5
PSG-5RM	50.0	75.0	62.5
TREAZURE II	48.3	76.7	62.5
IS-FRR-62	50.0	71.7	60.8
MVS-OS-1	48.3	73.3	60.8
PST-4HES	50.0	71.7	60.8
ZODIAC	45.0	76.7	60.8
IS-FRR-51	50.0	68.3	59.2
PST-48Y7	46.7	71.7	59.2
BOREAL	48.3	68.3	58.3
FAIRMONT (TCD)	46.7	70.0	58.3
PST-4CSD	45.0	70.0	57.5
ABERDEEN	45.0	68.3	56.7
BIGHORN GT (PST-4BU3)	45.0	68.3	56.7
NC-HF1	45.0	68.3	56.7
IS-FRC-33	45.0	66.7	55.8
IS-FRC-35	40.0	66.7	53.3
LSD VALUE	14.0	24.0	16.5
C.V. (%)	12.3	10.0	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 24B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 AT BLACKSBURG, VA 2/  
 2008 DATA

NAME	6 WEEKS	10 WEEKS	MEAN
CASCADE	58.3	81.7	70.0
INTRIGUE 2	56.7	75.0	65.8
LACROSSE	56.7	73.3	65.0
MVS-FRC-101	55.0	75.0	65.0
PSG 50C3	51.7	73.3	62.5
TREAZURE II	48.3	76.7	62.5
ZODIAC	45.0	76.7	60.8
FAIRMONT (TCD)	46.7	70.0	58.3
PST-4CSD	45.0	70.0	57.5
IS-FRC-33	45.0	66.7	55.8
IS-FRC-35	40.0	66.7	53.3
LSD VALUE	12.8	17.6	12.8
C.V. (%)	12.9	9.7	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 24C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
AT BLACKSBURG, VA 2/  
2008 DATA

NAME	6 WEEKS	10 WEEKS	MEAN
EPIC	53.3	75.0	64.2
PSG-5RM	50.0	75.0	62.5
IS-FRR-62	50.0	71.7	60.8
MVS-OS-1	48.3	73.3	60.8
IS-FRR-51	50.0	68.3	59.2
PST-48Y7	46.7	71.7	59.2
BOREAL	48.3	68.3	58.3
ABERDEEN	45.0	68.3	56.7
LSD VALUE	15.6	19.3	16.0
C.V. (%)	12.0	10.1	9.9

TABLE 24D. PERCENT ESTABLISHMENT RATINGS OF HARD FESCUE CULTIVARS 1/  
AT BLACKSBURG, VA 2/  
2008 DATA

NAME	6 WEEKS	10 WEEKS	MEAN
Beacon (Z6300)	56.7	78.3	67.5
SPARTAN II	51.7	76.7	64.2
GOTHAM	51.7	73.3	62.5
PST-4HES	50.0	71.7	60.8
BIGHORN GT (PST-4BU3)	45.0	68.3	56.7
NC-HF1	45.0	68.3	56.7
LSD VALUE	12.9	16.2	14.0
C.V. (%)	11.7	9.5	10.0

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

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

TABLE 25A. PERCENT ESTABLISHMENT RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
 AT PUYALLUP, WA 2/  
 2008 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
ZODIAC	80.0	86.7	83.3
TREAZURE II	73.3	85.0	79.2
EPIC	73.3	81.7	77.5
INTRIGUE 2	70.0	85.0	77.5
MVS-FRC-101	73.3	81.7	77.5
GOTHAM	73.3	80.0	76.7
CASCADE	63.3	88.3	75.8
FAIRMONT (TCD)	73.3	78.3	75.8
IS-FRC-35	66.7	81.7	74.2
IS-FRR-62	66.7	80.0	73.3
PSG 50C3	63.3	81.7	72.5
SPARTAN II	66.7	76.7	71.7
IS-FRC-33	63.3	76.7	70.0
PSG-5RM	66.7	73.3	70.0
IS-FRR-51	63.3	75.0	69.2
LACROSSE	60.0	78.3	69.2
MVS-OS-1	60.0	78.3	69.2
PST-4CSD	56.7	80.0	68.3
Beacon (Z6300)	60.0	76.7	68.3
BIGHORN GT (PST-4BU3)	60.0	75.0	67.5
ABERDEEN	66.7	66.7	66.7
PST-4HES	60.0	71.7	65.8
PST-48Y7	53.3	73.3	63.3
NC-HF1	53.3	70.0	61.7
BOREAL	46.7	66.7	56.7
LSD VALUE	12.8	15.3	9.6
C.V. (%)	11.2	9.0	7.7

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

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

TABLE 25B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 AT PUYALLUP, WA 2/  
 2008 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
ZODIAC	80.0	86.7	83.3
TREAZURE II	73.3	85.0	79.2
INTRIGUE 2	70.0	85.0	77.5
MVS-FRC-101	73.3	81.7	77.5
CASCADE	63.3	88.3	75.8
FAIRMONT (TCD)	73.3	78.3	75.8
IS-FRC-35	66.7	81.7	74.2
PSG 50C3	63.3	81.7	72.5
IS-FRC-33	63.3	76.7	70.0
LACROSSE	60.0	78.3	69.2
PST-4CSD	56.7	80.0	68.3
LSD VALUE	20.3	20.8	14.8
C.V. (%)	13.4	9.1	8.5

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

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



TABLE 25C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
 AT PUYALLUP, WA 2/  
 2008 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
EPIC	73.3	81.7	77.5
IS-FRR-62	66.7	80.0	73.3
PSG-5RM	66.7	73.3	70.0
IS-FRR-51	63.3	75.0	69.2
MVS-QS-1	60.0	78.3	69.2
ABERDEEN	66.7	66.7	66.7
PST-48Y7	53.3	73.3	63.3
BOREAL	46.7	66.7	56.7
LSD VALUE	8.7	15.7	7.8
C.V. (%)	8.1	9.5	6.4

TABLE 25D. PERCENT ESTABLISHMENT RATINGS OF HARD CULTIVARS 1/  
 AT PUYALLUP, WA 2/  
 2008 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
GOTHAM	73.3	80.0	76.7
SPARTAN II	66.7	76.7	71.7
Beacon (Z6300)	60.0	76.7	68.3
BIGHORN GT (PST-4BU3)	60.0	75.0	67.5
PST-4HES	60.0	71.7	65.8
NC-HF1	53.3	70.0	61.7
LSD VALUE	11.1	11.0	8.0
C.V. (%)	9.1	6.6	6.0

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

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

TABLE 26A. WINTER INJURY RATINGS OF FESCUE CULTIVARS 1/  
2009 DATA

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/

NAME	MN1
ABERDEEN	9.0
BIGHORN GT (PST-4BU3)	9.0
GOTHAM	9.0
IS-FRR-51	9.0
NC-HF1	9.0
PSG-5RM	9.0
PST-4HES	9.0
SPARTAN II	9.0
Beacon (Z6300)	9.0
IS-FRR-62	8.7
MVS-OS-1	8.7
PST-48Y7	8.3
TREAZURE II	8.3
BOREAL	7.7
EPIC	7.7
INTRIGUE 2	7.3
FAIRMONT (TCD)	7.0
IS-FRC-33	6.7
PSG 50C3	6.7
LACROSSE	6.3
IS-FRC-35	5.7
MVS-FRC-101	5.7
CASCADE	5.0
ZODIAC	4.3
PST-4CSD	2.3
LSD VALUE	3.0
C.V. (%)	25.3

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 26B. WINTER INJURY RATINGS OF CHEWINGS CULTIVARS 1/  
2009 DATA

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/

NAME	MN1
TREAZURE II	8.3
INTRIGUE 2	7.3
FAIRMONT (TCD)	7.0
IS-FRC-33	6.7
PSG 50C3	6.7
LACROSSE	6.3
IS-FRC-35	5.7
MVS-FRC-101	5.7
CASCADE	5.0
ZODIAC	4.3
PST-4CSD	2.3
LSD VALUE	4.3
C.V. (%)	44.8

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 26C. WINTER INJURY RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2009 DATA

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/

NAME	MN1
ABERDEEN	9.0
IS-FRR-51	9.0
PSG-5RM	9.0
IS-FRR-62	8.7
MVS-0S-1	8.7
PST-48Y7	8.3
BOREAL	7.7
EPIC	7.7
LSD VALUE	1.9
C.V. (%)	14.2

TABLE 26D. WINTER INJURY RATINGS OF HARD CULTIVARS 1/  
2009 DATA

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/

NAME	MN1
BIGHORN GT (PST-4BU3)	9
GOTHAM	9
NC-HF1	9
PST-4HES	9
SPARTAN II	9
Beacon (Z6300)	9
LSD VALUE	0
C.V. (%)	0

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

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

TABLE 27A. WINTER DENSITY RATINGS OF FESCUE CULTIVARS 1/  
2009 DATA

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

NAME	WA3
CASCADE	9.0
EPIC	9.0
MVS-FRC-101	9.0
INTRIGUE 2	8.7
MVS-OS-1	8.7
ZODIAC	8.7
IS-FRC-35	8.3
PSG 50C3	8.3
TREAZURE II	8.3
Beacon (Z6300)	8.3
ABERDEEN	8.0
BIGHORN GT (PST-4BU3)	8.0
IS-FRC-33	8.0
PST-4HES	8.0
FAIRMONT (TCD)	8.0
BOREAL	7.7
GOTHAM	7.7
IS-FRR-51	7.7
IS-FRR-62	7.7
PST-48Y7	7.7
PST-4CSD	7.7
LACROSSE	7.3
PSG-5RM	7.3
SPARTAN II	7.3
NC-HF1	7.0
LSD VALUE	1.1
C.V. (%)	8.4

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 27B. WINTER DENSITY RATINGS OF CHEWINGS CULTIVARS 1/  
2009 DATA

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

NAME	WA3
CASCADE	9.0
MVS-FRC-101	9.0
INTRIGUE 2	8.7
ZODIAC	8.7
IS-FRC-35	8.3
PSG 50C3	8.3
TREAZURE II	8.3
FAIRMONT (TCD)	8.0
IS-FRC-33	8.0
PST-4CSD	7.7
LACROSSE	7.3
LSD VALUE	0.9
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 27C. WINTER DENSITY RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2009 DATA

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

NAME	WA3
EPIC	9.0
MVS-0S-1	8.7
ABERDEEN	8.0
BOREAL	7.7
IS-FRR-51	7.7
IS-FRR-62	7.7
PST-48Y7	7.7
PSG-5RM	7.3
LSD VALUE	1.4
C.V. (%)	10.9

TABLE 27D. WINTER DENSITY RATINGS OF HARD CULTIVARS 1/  
2009 DATA

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

NAME	WA3
Beacon (Z6300)	8.3
BIGHORN GT (PST-4BU3)	8.0
PST-4HES	8.0
GOTHAM	7.7
SPARTAN II	7.3
NC-HF1	7.0
LSD VALUE	0.9
C.V. (%)	7.5

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

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

TABLE 28A. RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS  
 AT PUYALLUP, WA 1/  
 2009 DATA

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

NAME	JUNE	SEPTEMBER	MEAN
PSG 50C3	9.0	7.7	8.3
GOTHAM	8.3	8.0	8.2
Beacon (Z6300)	8.0	8.3	8.2
NC-HF1	7.7	8.3	8.0
FAIRMONT (TCD)	8.0	7.7	7.8
IS-FRC-33	8.3	7.3	7.8
PSG-5RM	8.3	7.3	7.8
LACROSSE	8.3	7.0	7.7
PST-4HES	7.7	7.7	7.7
ZODIAC	7.7	7.7	7.7
IS-FRC-35	8.0	7.0	7.5
TREAZURE II	7.3	7.3	7.3
IS-FRR-51	7.3	7.0	7.2
BIGHORN GT (PST-4BU3)	7.3	6.7	7.0
EPIC	6.3	7.7	7.0
INTRIGUE 2	7.0	7.0	7.0
IS-FRR-62	7.0	7.0	7.0
PST-4CSD	7.3	6.7	7.0
SPARTAN II	7.3	6.7	7.0
MVS-FRC-101	7.7	6.0	6.8
PST-48Y7	7.0	6.7	6.8
ABERDEEN	6.7	6.3	6.5
CASCADE	6.7	6.3	6.5
MVS-OS-1	6.7	5.3	6.0
BOREAL	4.0	4.0	4.0
LSD VALUE	1.9	1.7	1.0
C.V. (%)	13.6	13.3	8.4

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 28B. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2009 DATA

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

NAME	JUNE	SEPTEMBER	MEAN
PSG 50C3	9.0	7.7	8.3
FAIRMONT (TCD)	8.0	7.7	7.8
IS-FRC-33	8.3	7.3	7.8
LACROSSE	8.3	7.0	7.7
ZODIAC	7.7	7.7	7.7
IS-FRC-35	8.0	7.0	7.5
TREAZURE II	7.3	7.3	7.3
INTRIGUE 2	7.0	7.0	7.0
PST-4CSD	7.3	6.7	7.0
MVS-FRC-101	7.7	6.0	6.8
CASCADE	6.7	6.3	6.5
LSD VALUE	2.3	2.8	0.9
C.V. (%)	12.5	14.7	6.8

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

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

TABLE 28C. RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2009 DATA

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

NAME	JUNE	SEPTEMBER	MEAN
PSG-5RM	8.3	7.3	7.8
IS-FRR-51	7.3	7.0	7.2
EPIC	6.3	7.7	7.0
IS-FRR-62	7.0	7.0	7.0
PST-48Y7	7.0	6.7	6.8
ABERDEEN	6.7	6.3	6.5
MVS-OS-1	6.7	5.3	6.0
BOREAL	4.0	4.0	4.0
LSD VALUE	2.5	1.4	1.2
C.V. (%)	18.5	12.7	10.7

TABLE 28D. RED THREAD RATINGS OF HARD FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2009 DATA

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

NAME	JUNE	SEPTEMBER	MEAN
GOTHAM	8.3	8.0	8.2
Beacon (Z6300)	8.0	8.3	8.2
NC-HF1	7.7	8.3	8.0
PST-4HES	7.7	7.7	7.7
BIGHORN GT (PST-4BU3)	7.3	6.7	7.0
SPARTAN II	7.3	6.7	7.0
LSD VALUE	2.0	1.6	1.4
C.V. (%)	10.7	10.1	8.5

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

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