

NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association, one member from the Sports Turf Managers Association of America (STMA), and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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

CURRENT POLICY COMMITTEE MEMBERS:

Mr. Sean Chaney, DLF North America
Mr. Micah Gould, Barenbrug USA.
Dr. Cole Thompson, USGA Green Section
Dr. Barry Stewart, Mississippi State University
Dr. Chas Schmid, Oregon State University
Dr. Casey Reynolds, Turfgrass Producers International
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America
Dr. Doug Soldat, University of Wisconsin
Mr. Austin Fricker, Pure-Seed Testing, Inc.
Dr. Mike Fidanza, Penn State University, Berks Campus
Dr. Chase Straw, Texas A&M University

FOR ADDITIONAL REPORTS OR INFORMATION CONTACT:

Kevin Morris, Executive Director
National Turfgrass Evaluation Program
National Agricultural Library
10301 Baltimore Ave. Rm. G-07
Beltsville, Maryland 20705
kmorris@ntep.org
www.ntep.org

CONTENTS

2020 National Fineleaf Fescue Test - 2023 data

LOCATIONS SUBMITTING DATA FOR 2023.....	1
NATIONAL FINELEAF FESCUE TEST, 2020	
Entries and Sponsors.....	2
Table A - 2022 Locations, Site Descriptions and Management Practices in the 2020 National Fineleaf Fescue Test.....	4
Table B - Locations and Data Collected in 2022.....	5
Table 1A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 1.....	8
Table 1B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 1.....	9
Table 1C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 1.....	10
Table 1D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 1.....	11
Table 1E - Mean Turfgrass Quality Ratings of Sheep Fescue Cultivars Grown in Location Performance Index (LPI) Group 1.....	12
Table 1F - Mean Turfgrass Quality Ratings of Slender Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 1.....	12
Table 2A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 2.....	13
Table 2B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 2.....	14
Table 2C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 2.....	15
Table 2D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 2.....	16
Table 2E - Mean Turfgrass Quality Ratings of Sheep Fescue Cultivars Grown in Location Performance Index (LPI) Group 2.....	17

CONTENTS (Continued)

Table 2F - Mean Turfgrass Quality Ratings of Slender Creeping Red Fescue Cultivars
Grown in Location Performance Index (LPI) Group 2.....17

Table 3A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars
Grown in Location Performance Index (LPI) Group 3.....18

Table 3B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars
Grown in Location Performance Index (LPI) Group 3.....19

Table 3C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars
Grown in Location Performance Index (LPI) Group 3.....20

Table 3D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars
Grown in Location Performance Index (LPI) Group 3.....21

Table 3E - Mean Turfgrass Quality Ratings of Sheep Fescue Cultivars
Grown in Location Performance Index (LPI) Group 3.....22

Table 3F - Mean Turfgrass Quality Ratings of Slender Creeping Red Fescue Cultivars
Grown in Location Performance Index (LPI) Group 3.....22

Table 4A - Mean Turfgrass Quality and Other Ratings of
Fineleaf Fescue Cultivars Grown on a Fairway at St. Paul, MN.....23

Table 4B - Mean Turfgrass Quality and Other Ratings of
Chewings Fescue Cultivars Grown on a Fairway at St. Paul, MN.....24

Table 4C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue
Cultivars Grown on a Fairway at St. Paul, MN.....25

Table 4D - Mean Turfgrass Quality and Other Ratings of Hard Fescue
Cultivars Grown on a Fairway at St. Paul, MN.....25

Table 4E - Mean Turfgrass Quality and Other Ratings of Sheep Fescue
Cultivars Grown on a Fairway at St. Paul, MN.....26

Table 4F - Mean Turfgrass Quality and Other Ratings of Slender Creeping Red
Fescue Cultivars Grown on a Fairway at St. Paul, MN.....26

Table 5A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue
Cultivars Grown under Traffic Stress at Amherst, MA.....27

Table 5B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue
Cultivars Grown under Traffic Stress at Amherst, MA28

Table 5C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue
Cultivars Grown under Traffic Stress at Amherst, MA29

CONTENTS (Continued)

Table 5D - Mean Turfgrass Quality and Other Ratings of Hard Fescue
Cultivar Grown under Traffic Stress at Amherst, MA29

Table 5E - Mean Turfgrass Quality and Other Ratings of Sheep Fescue
Cultivars Grown under Traffic Stress at Amherst, MA30

Table 5F - Mean Turfgrass Quality and Other Ratings of Slender Creeping Red
Fescue Cultivars Grown under Traffic Stress at Amherst, MA30

Table 6A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue
Cultivars Grown under Traffic Stress at East Lansing, MI.....31

Table 6B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue
Cultivars Grown under Traffic Stress at East Lansing, MI.....32

Table 6C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue
Cultivars Grown under Traffic Stress at East Lansing, MI.....33

Table 6D - Mean Turfgrass Quality and Other Ratings of Hard Fescue
Cultivar Grown under Traffic Stress at East Lansing, MI.....33

Table 6E - Mean Turfgrass Quality and Other Ratings of Sheep Fescue
Cultivars Grown under Traffic Stress at East Lansing, MI.....34

Table 6F - Mean Turfgrass Quality and Other Ratings of Slender Creeping Red
Fescue Cultivars Grown under Traffic Stress at East Lansing, MI.....34

Table 7A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue
Cultivars Grown Under Saline Irrigation at Fort Collins, CO35

Table 7B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue
Cultivars Grown Under Saline Irrigation at Fort Collins, CO36

Table 7C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue
Cultivars Grown Under Saline Irrigation at Fort Collins, CO37

Table 7D - Mean Turfgrass Quality and Other Ratings of Hard Fescue
Cultivars Grown Under Saline Irrigation at Fort Collins, CO37

Table 7E - Mean Turfgrass Quality and Other Ratings of Sheep Fescue
Cultivars Grown Under Saline Irrigation at Fort Collins, CO38

Table 7F - Mean Turfgrass Quality and Other Ratings of Slender Creeping Red
Fescue Cultivars Grown Under Saline Irrigation at Fort Collins, CO38

Table 8A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue
Cultivars Grown Under Shade at Newark, DE39

CONTENTS (Continued)

Table 8B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown Under Shade at Newark, DE	40
Table 8C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown Under Shade at Newark, DE	41
Table 8D - Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown Under Shade at Newark, DE	41
Table 8E - Mean Turfgrass Quality and Other Ratings of Sheep Fescue Cultivars Grown Under Shade at Newark, DE	42
Table 8F - Mean Turfgrass Quality and Other Ratings of Slender Creeping Red Fescue Cultivars Grown Under Shade at Newark, DE	42
Table 9A - Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown Under Shade at Ames, IA.....	43
Table 9B - Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown Under Shade at Ames, IA	45
Table 9C - Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown Under Shade at Ames, IA... ..	46
Table 9D - Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown Under Shade at Ames, IA... ..	47
Table 9E - Mean Turfgrass Quality and Other Ratings of Sheep Fescue Cultivars Grown Under Shade at Ames, IA.....	48
Table 9F - Mean Turfgrass Quality and Other Ratings of Slender Creeping Red Fescue Cultivars Grown Under Shade at Ames, IA... ..	49
Table 10A- Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown with Zero Nitrogen Fertilizer at East Lansing, MI.....	50
Table 10B- Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown with Zero Nitrogen Fertilizer at East Lansing, MI.....	51
Table 10C- Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown with Zero Nitrogen Fertilizer at East Lansing, MI.....	52
Table 10D- Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivar Grown with Zero Nitrogen Fertilizer at East Lansing, MI.....	52
Table 10E- Mean Turfgrass Quality and Other Ratings of Sheep Fescue Cultivars Grown with Zero Nitrogen Fertilizer at East Lansing, MI.....	53

CONTENTS (Continued)

Table 10F- Mean Turfgrass Quality and Other Ratings of Slender Creeping Red Fescue Cultivars Grown with Zero Nitrogen Fertilizer at East Lansing, MI.....53

Table 11A- Genetic Color Ratings of Fineleaf Fescue Cultivars.....54

Table 11B- Genetic Color Ratings of Chewings Fescue Cultivars.....55

Table 11C- Genetic Color Ratings of Strong Creeping Red Fescue Cultivars.....56

Table 11D- Genetic Color Ratings of Hard Fescue Cultivars.....56

Table 11E- Genetic Color Ratings of Sheep Fescue Cultivars.....57

Table 11F- Genetic Color Ratings of Slender Creeping Red Fescue Cultivars.....57

Table 12A- Spring Greenup Ratings of Fineleaf Fescue Cultivars.....58

Table 12B- Spring Greenup Ratings of Chewings Fescue Cultivars.....59

Table 12C- Spring Greenup Ratings of Strong Creeping Red Fescue Cultivars.....59

Table 12D- Spring Greenup Ratings of Hard Fescue Cultivars60

Table 12E- Spring Greenup Ratings of Sheep Fescue Cultivars.....60

Table 12F- Spring Greenup Ratings of Slender Creeping Red Fescue Cultivars.....60

Table 13A- Leaf Texture Ratings of Fineleaf Fescue Cultivars.....61

Table 13B- Leaf Texture Ratings of Chewings Fescue Cultivars.....62

Table 13C- Leaf Texture Ratings of Strong Creeping Red Fescue Cultivars.....62

Table 13D- Leaf Texture Ratings of Hard Fescue Cultivars.....63

Table 13E- Leaf Texture Ratings of Sheep Fescue Cultivars63

Table 13F- Leaf Texture Ratings of Slender Creeping Red Fescue Cultivars.....63

Table 14A- Spring Density Ratings of Fineleaf Fescue Cultivars.....64

Table 14B- Spring Density Ratings of Chewings Fescue Cultivars.....65

Table 14C- Spring Density Ratings of Strong Creeping Red Fescue Cultivars.....65

Table 14D- Spring Density Ratings of Hard Fescue Cultivars.....66

Table 14E- Spring Density Ratings of Sheep Fescue Cultivars.....66

CONTENTS (Continued)

Table 14F- Spring Density Ratings of Slender Creeping Red Fescue Cultivars.....	66
Table 15A- Summer Density Ratings of Fineleaf Fescue Cultivars.....	67
Table 15B- Summer Density Ratings of Chewings Fescue Cultivars.....	68
Table 15C- Summer Density Ratings of Strong Creeping Red Fescue Cultivars.....	68
Table 15D- Summer Density Ratings of Hard Fescue Cultivars.....	69
Table 15E- Summer Density Ratings of Sheep Fescue Cultivars.....	69
Table 15F- Summer Density Ratings of Slender Creeping Red Fescue Cultivars.....	69
Table 16A- Fall Density Ratings of Fineleaf Fescue Cultivars.....	70
Table 16B- Fall Density Ratings of Chewings Fescue Cultivars.....	71
Table 16C- Fall Density Ratings of Strong Creeping Red Fescue Cultivars.....	71
Table 16D- Fall Density Ratings of Hard Fescue Cultivars.....	72
Table 16E- Fall Density Ratings of Sheep Fescue Cultivars.....	72
Table 16F- Fall Density Ratings of Slender Creeping Red Fescue Cultivars.....	72
Table 17A- Percent Living Ground Cover (Spring) Ratings of Fineleaf Fescue Cultivars.....	73
Table 17B- Percent Living Ground Cover (Spring) Ratings of Chewings Fescue Cultivars.....	74
Table 17C- Percent Living Ground Cover (Spring) Ratings of Strong Creeping Red Fescue Cultivars.....	74
Table 17D- Percent Living Ground Cover (Spring) Ratings of Hard Fescue Cultivars.....	75
Table 17E- Percent Living Ground Cover (Spring) Ratings of Sheep Fescue Cultivars.....	75
Table 17F- Percent Living Ground Cover (Spring) Ratings of Slender Creeping Red Fescue Cultivars.....	75
Table 18A- Percent Living Ground Cover (Summer) Ratings of Fineleaf Fescue Cultivars.....	76
Table 18B- Percent Living Ground Cover (Summer) Ratings of Chewings Fescue Cultivars.....	77

CONTENTS (Continued)

Table 18C- Percent Living Ground Cover (Summer) Ratings of Strong Creeping Red Fescue Cultivars.....	77
Table 18D- Percent Living Ground Cover (Summer) Ratings of Hard Fescue Cultivars.....	78
Table 18E- Percent Living Ground Cover (Summer) Ratings of Sheep Fescue Cultivars.....	78
Table 18F- Percent Living Ground Cover (Summer) Ratings of Slender Creeping Red Fescue Cultivars.....	78
Table 19A- Percent Living Ground Cover (Fall) Ratings of Fineleaf Fescue Cultivars.....	79
Table 19B- Percent Living Ground Cover (Fall) Ratings of Chewings Fescue Cultivars.....	80
Table 19C- Percent Living Ground Cover (Fall) Ratings of Strong Creeping Red Fescue Cultivars.....	80
Table 19D- Percent Living Ground Cover (Fall) Ratings of Hard Fescue Cultivars.....	81
Table 19E- Percent Living Ground Cover (Fall) Ratings of Sheep Fescue Cultivars.....	81
Table 19F- Percent Living Ground Cover (Fall) Ratings of Slender Creeping Red Fescue Cultivars.....	81
Table 20A- Drought Tolerance (Wilting) Ratings of Fineleaf Fescue Cultivars.....	82
Table 20B- Drought Tolerance (Wilting) Ratings of Chewings Fescue Cultivars.....	83
Table 20C- Drought Tolerance (Wilting) Ratings of Strong Creeping Red Fescue Cultivars.....	83
Table 20D- Drought Tolerance (Wilting) Ratings of Hard Fescue Cultivars.....	84
Table 20E- Drought Tolerance (Wilting) Ratings of Sheep Fescue Cultivars.....	84
Table 20F- Drought Tolerance (Wilting) Ratings of Slender Creeping Red Fescue Cultivars.....	84
Table 21A- Drought Tolerance (Dormancy) Ratings of Fineleaf Fescue Cultivars.....	85
Table 21B- Drought Tolerance (Dormancy) Ratings of Chewings Fescue Cultivars.....	86
Table 21C- Drought Tolerance (Dormancy) Ratings of Strong Creeping Red Fescue Cultivars.....	86
Table 21D- Drought Tolerance (Dormancy) Ratings of Hard Fescue Cultivars.....	87

CONTENTS (Continued)

Table 21E- Drought Tolerance (Wilting) Ratings of Sheep Fescue Cultivars.....	87
Table 21F- Drought Tolerance (Wilting) Ratings of Slender Creeping Red Fescue Cultivars.....	87
Table 22A- Leaf Spot Ratings of Fineleaf Fescue Cultivars.....	88
Table 22B- Leaf Spot Ratings of Chewings Fescue Cultivars.....	89
Table 22C- Leaf Spot Ratings of Strong Creeping Red Fescue Cultivars.....	89
Table 22D- Leaf Spot Ratings of Hard Fescue Cultivars	90
Table 22E- Leaf Spot Ratings of Sheep Fescue Cultivars.....	90
Table 22F- Leaf Spot Ratings of Slender Creeping Red Fescue Cultivars.....	90
Table 23A- Dollar Spot Ratings of Fineleaf Fescue Cultivars.....	91
Table 23B- Dollar Spot Ratings of Chewings Fescue Cultivars.....	92
Table 23C- Dollar Spot Ratings of Strong Creeping Red Fescue Cultivars.....	92
Table 23D- Dollar Spot Ratings of Hard Fescue Cultivars	93
Table 23E- Dollar Spot Ratings of Sheep Fescue Cultivars.....	93
Table 23F- Dollar Spot Ratings of Slender Creeping Red Fescue Cultivars.....	93
Table 24A- Brown Patch (Cool Temperature) Ratings of Fineleaf Fescue Cultivars.....	94
Table 24B- Brown Patch (Cool Temperature) Ratings of Chewings Fescue Cultivars.....	95
Table 24C- Brown Patch (Cool Temperature) Ratings of Strong Creeping Red Fescue Cultivars.....	95
Table 24D- Brown Patch (Cool Temperature) Ratings of Hard Fescue Cultivars.....	96
Table 24E- Brown Patch (Cool Temperature) Ratings of Sheep Fescue Cultivars.....	96
..	
Table 24F- Brown Patch (Cool Temperature) Ratings of Slender Creeping Red Fescue Cultivars.....	96
Table 25A- Fall Color (November) Ratings of Fineleaf Fescue Cultivars.....	97
Table 25B- Fall Color (November) Ratings of Chewings Fescue Cultivars.....	98

CONTENTS (Continued)

Table 25C- Fall Color (November) Ratings of Strong Creeping Red Fescue Cultivars.....98

Table 25D- Fall Color (November) Ratings of Hard Fescue Cultivars.....99

Table 25E- Fall Color (November) Ratings of Sheep Fescue Cultivars.....99

Table 25F- Fall Color (November) Ratings of Slender Creeping Red Fescue Cultivars.....99

Table 26A- Poa Annua Ratings of Fineleaf Fescue Cultivars.....100

Table 26B- Poa Annua Ratings of Chewings Fescue Cultivars.....101

Table 26C- Poa Annua Ratings of Strong Creeping Red Fescue Cultivars.....101

Table 26D- Poa Annua Ratings of Hard Fescue Cultivars.....102

Table 26E- Poa Annua Ratings of Sheep Fescue Cultivars.....102

Table 26F- Poa Annua Ratings of Slender Creeping Red Fescue Cultivars.....102

Table 27A- Brown Patch (Warm Temperature) Ratings of Fineleaf Fescue Cultivars.....103

Table 27B- Brown Patch (Warm Temperature) Ratings of Chewings Fescue Cultivars.....104

Table 27C- Brown Patch (Warm Temperature) Ratings of
Strong Creeping Red Fescue Cultivars.....104

Table 27D- Brown Patch (Warm Temperature) Ratings of
Hard Fescue Cultivars.....105

Table 27E- Brown Patch (Warm Temperature) Ratings of
Sheep Fescue Cultivars.....105

Table 27F- Brown Patch (Warm Temperature) Ratings of Slender Creeping
Red Fescue Cultivars.....105

Table 28A- Summer Patch Ratings of Fineleaf Fescue Cultivars at North Brunswick, NJ.....106

Table 28B- Summer Patch Ratings of Chewings Fescue Cultivars
at North Brunswick, NJ.....107

Table 28C- Summer Patch Ratings of Strong Creeping Red Fescue Cultivars at
North Brunswick, NJ107

Table 28D- Summer Patch Ratings of Hard Fescue Cultivars at North Brunswick, NJ108

Table 28E- Summer Patch Ratings of Sheep Fescue Cultivars at North Brunswick, NJ.....108

Table 28F- Summer Patch Ratings of Slender Creeping Red Fescue Cultivars
at North Brunswick, NJ109

Appendix Table- Summary of Turfgrass Quality Ratings of Fineleaf Fescue.....110

A Guide to NTEP Turfgrass Ratings

Introduction

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

General Considerations

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

Turfgrass Quality

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

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

Other Ratings

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

**2020 NATIONAL FINELEAF FESCUE TEST
LOCATIONS SUBMITTING DATA FOR 2023**

State	Location	Code
Colorado	Ft. Collins (Salt Tolerance)	CO1
Connecticut	Storrs	CT1
Delaware	Newark	DE1
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Iowa	Ames (Shade)	IA2
Kansas	Manhattan	KS1
Massachusetts	Amherst (Traffic Tolerance)	MA1
Maryland	College Park	MD1
Michigan	East Lansing (with Nitrogen Fert.)	MI1
Michigan	East Lansing (No Nitrogen Fert.)	MI3
Michigan	East Lansing (No traffic)	MI2
Michigan	East Lansing (Traffic)	MI4
Minnesota	St. Paul (Fairway Mowing)	MN2
Minnesota	St. Paul	MN1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
North Carolina	Raleigh	NC1
Quebec	Quebec City	QE1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Wisconsin	Madison	WI1

**2020 NATIONAL FINELEAF FESCUE TEST
Entries and Sponsors**

Entry No	Name	Species	Sponsor
*1	Gladiator	Hard Fescue	Standard Entry
*2	Seabreeze GT	Slender Creeping Red	Standard Entry
3	SPHD-20	Hard Fescue	University of Minnesota
4	DLFPS-FL-3104	Hard Fescue	DLF USA
*5	Quatro	Sheep Fescue	Standard Entry
*6	Resolute	Hard Fescue	SiteOne Landscape Supply
*7	Brittany 2	Chewings Fescue	SiteOne Landscape Supply
*8	Foxfire 2	Strong Creeping Red	SiteOne Landscape Supply
9	BAR FRC 123	Chewings Fescue	Barenbrug USA
10	BAR FO 131	Sheep Fescue	Barenbrug USA
11	BAR FRL 122	Slender Creeping Red	Barenbrug USA
12	BAR FT 135	Hard Fescue	Barenbrug USA
13	BAR FT 132	Hard Fescue	Barenbrug USA
14	BAR FRC 130	Chewings Fescue	Barenbrug USA
*15	Kevin	Strong Creeping Red	The Scotts Company, LLC.
16	RAD-FC59	Chewings Fescue	The Scotts Company, LLC.
*17	Jamestown VII	Chewings Fescue	The Scotts Company, LLC.
*18	Resonance (NAI-CHU1)	Chewings Fescue	Columbia River Seed
*19	Sword II (NAI-HAQ1+2)	Hard Fescue	Columbia River Seed
*20	Tenacious (NAI-HTB2)	Hard Fescue	Columbia River Seed
21	RAD-FR64	Strong Creeping Red	Lewis Seed Co.
22	5Z2	Strong Creeping Red	The Scotts Company, LLC.
*23	Meso (STB1)	Strong Creeping Red	The Scotts Company, LLC.
*24	Hype (5Z5)	Strong Creeping Red	The Scotts Company, LLC.
25	BYE	Strong Creeping Red	BrettYoung
26	DLF-FRR-3128	Strong Creeping Red	DLF USA
*27	Boreal	Strong Creeping Red	Standard Entry
28	PPG-FRC-130	Chewings Fescue	Peak Plant Genetics, LLC.
*29	Compass II	Chewings Fescue	Standard Entry
30	PPG-FRR-134	Strong Creeping Red	Peak Plant Genetics, LLC.
*31	Cardinal II	Strong Creeping Red	Standard Entry
32	DLFPS-FRC-3105	Chewings Fescue	DLF USA
*33	Blue Hornet (PPG-FO-102)	Sheep Fescue	Mountain View Seeds
*34	Radar II (PPG-FRC 127)	Chewings Fescue	Mountain View Seeds
*35	Harbor MR (PPG-FRR 132)	Strong Creeping Red	Mountain View Seeds
*36	Beacon II (PPG-FL 128)	Hard Fescue	Mountain View Seeds
*37	Navigator III (PPG-FRR 127)	Strong Creeping Red	Mountain View Seeds
38	DA5-RHF	Hard Fescue	Blue Mt. Seeds, Inc.
39	PST-4SWTM	Chewings Fescue	Pure-Seed Testing
*40	Shadow IV (PST-4SHAD)	Chewings Fescue	Silverton Seeds
41	PVF-PDB-2020	Hard Fescue	Columbia River Seed
42	PVF-HSY+	Strong Creeping Red	Lebanon Seaboard Corp.
43	PVF-MVP-2020	Chewings Fescue	The Scotts Company, LLC.

* Commercially Available in the USA or any other Country in 2024

TABLE A.

2023 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2020 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
CO1	SAND	7.1-7.5	-	-	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
CT1	-	-	-	-	-	-	-	-
DE1	-	-	-	-	-	-	-	-
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
IA2	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	DENSE SHADE	2.6-3.0	TO PREVENT DORMANCY
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
KS1	SILTY CLAY LOAM	7.1-7.5	61-150	0-150	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
MA1	SILT LOAM AND SILT	5.6-6.0	151-270	241-375	1.1-2.0	FULL SUN	3.1-3.5	NO IRRIGATION
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	3.6-4.0	NO IRRIGATION
MI1	-	-	-	-	-	-	-	-
MI2	-	-	-	-	-	-	-	-
MI3	-	-	-	-	-	-	-	-
MI4	-	-	-	-	-	-	-	-
MN1	SILTY CLAY LOAM	6.1-6.5	61-150	241-375	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
MN2	SILTY CLAY LOAM	6.6-7.0	61-150	241-375	0.0-1.0	FULL SUN	0.0-0.5	NO IRRIGATION
NC1	SANDY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	271-450	151-240	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
NJ2	SANDY LOAM	6.1-6.5	271-450	241-375	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
UT1	SILT LOAM AND SILT	7.6-8.5	-	-	-	FULL SUN	2.6-3.0	TO PREVENT STRESS
VA1	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	1.1-2.0	LIGHT SHADE	3.1-3.5	TO PREVENT DORMANCY
WA1	SILT LOAM AND SILT	5.6-6.0	61-150	501+	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING
CO1				X	X	X	X	X	X			
CT1				X	X	X	X	X	X	X	X	
DE1			X	X	X	X	X	X	X	X	X	X
IA1				X	X	X	X	X	X	X	X	
IA2				X	X	X	X	X	X	X	X	
IN1				X	X	X	X	X	X	X	X	
KS1					X	X	X	X	X			
MA1			X		X	X	X	X	X	X	X	
MD1					X	X			X	X		
MI1				X	X	X	X	X	X	X		
MI2				X	X	X	X	X	X	X		
MI3							X	X	X	X		
MI4							X	X	X	X		
MN1					X	X	X	X	X	X		
MN2					X	X	X	X	X	X		
NC1	X	X	X	X	X	X	X	X	X	X	X	
NJ1				X	X	X	X	X	X	X		
NJ2				X	X	X	X	X	X	X		X
QE1					X	X	X	X	X	X		
UT1					X	X	X	X	X	X		
VA1				X	X	X	X	X	X	X		
WA1				X	X	X	X	X	X	X		
WI1				X	X	X	X	X	X	X	X	

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	DROUGHT TOLERANCE WILTING	DROUGHT TOLERANCE DORMANCY	LEAF SPOT	DOLLAR SPOT	BROWN PATCH WARM TEMP.	SUMMER PATCH	BROWN PATCH COOL TEMP.
CO1	X	X	X		X	X		X	X							
CT1		X			X	X			X							
DE1	X														X	
IA1	X	X		X	X	X	X	X	X							
IA2	X	X		X	X	X										
IN1	X						X						X			
KS1										X						
MA1																
MD1																
MI1	X															
MI2		X			X			X	X							
MI3	X															
MI4					X			X	X							
MN1	X	X					X		X							
MN2	X	X					X		X							
NC1	X		X	X			X	X	X					X		X
NJ1		X													X	
NJ2	X	X	X									X				
QE1	X	X				X		X								
UT1	X	X			X											
VA1							X		X							
WA1	X	X				X			X		X					
WI1	X	X		X	X	X										

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	FALL COLOR NOVEMBER	POA ANNUA	PERCENT GROUND COVER RATINGS			WEAR TOLERANCE			BROWN PATCH		SUMMER PATCH RATINGS						
			MAY	JUN	JUL	AUG	SEP	OCT	MAY	JULY	OCTOBER	AUG_1	AUG_23	JUL_3	AUG_11	AUG_29	
CO1																	
CT1																	
DE1																	
IA1																	
IA2			X	X	X	X	X	X									
IN1																	
KS1																	
MA1									X	X							
MD1											X						
MI1																	
MI2																	
MI3																	
MI4																	
MN1																	
MN2																	
NC1		X															
NJ1												X	X				
NJ2														X	X	X	
QE1																	
UT1																	
VA1																	
WA1																	
WI1	X																

TABLE 1A.

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

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

NAME	# ENTRY	NJ2	MD1	VA1	WI1	MN1	IA1	KS1	UT1	QE1	MEAN
PVF-PDB-2020	41	6.6	5.2	7.4	6.7	6.3	6.8	5.7	7.5	6.5	6.4
*SWORD II (NAI-HAQ1+2)	19	6.4	5.0	7.2	6.5	6.0	6.6	5.5	7.3	6.3	6.2
DLFPS-FL-3104	4	6.6	4.9	7.2	6.3	6.1	6.3	5.5	7.2	6.3	6.1
*TENACIOUS (NAI-HTB2)	20	6.2	4.8	7.1	6.4	5.8	6.5	5.3	7.2	6.1	6.0
*BEACON II (PPG-FL 128)	36	6.7	4.6	7.0	6.2	5.8	6.2	5.2	7.1	6.0	6.0
SPHD-20	3	5.5	5.0	7.1	6.4	5.8	6.6	5.3	7.0	6.2	6.0
*RESOLUTE	6	6.2	4.8	7.0	6.2	5.9	6.3	5.2	7.1	6.1	6.0
*GLADIATOR	1	5.4	5.1	7.0	6.4	5.9	6.6	5.2	7.0	6.2	5.9
DA5-RHF	38	6.3	4.7	7.0	6.3	5.6	6.5	5.1	7.1	5.9	5.9
BAR FT 135	12	5.5	4.8	7.0	6.3	5.5	6.6	5.3	7.0	6.0	5.8
PPG-FRC-130	28	6.1	4.1	6.6	6.1	4.8	6.5	4.5	7.0	5.2	5.5
DLFPS-FRC-3105	32	6.3	4.0	6.5	6.1	4.7	6.5	4.4	7.0	5.1	5.5
BAR FT 132	13	4.8	4.6	6.6	5.9	5.2	6.3	4.9	6.6	5.7	5.5
*NAVIGATOR III (PPG-FRR 127)	37	6.5	3.7	6.6	6.0	4.4	6.4	4.5	7.0	5.0	5.5
*RADAR II (PPG-FRC 127)	34	6.2	4.0	6.5	6.1	4.7	6.5	4.3	7.0	5.1	5.5
BAR FRC 130	14	5.5	4.2	6.4	5.9	4.8	6.3	4.4	6.7	5.2	5.4
*COMPASS II	29	5.6	4.0	6.5	6.0	4.4	6.6	4.3	6.9	5.0	5.3
PVF-MVP-2020	43	6.3	3.8	6.4	5.9	4.5	6.3	4.3	6.9	5.0	5.3
BYE	25	5.2	4.1	6.5	6.1	4.3	6.7	4.4	6.8	5.1	5.3
PVF-HSY+	42	5.5	3.9	6.5	6.0	4.3	6.6	4.5	6.8	5.0	5.3
*RESONANCE (NAI-CHU1)	18	6.5	3.7	6.3	5.9	4.5	6.2	4.1	6.8	4.8	5.3
BAR FRL 122	11	5.7	4.0	6.3	5.8	4.7	6.2	4.2	6.7	5.1	5.3
*BLUE HORNET (PPG-FO-102)	33	4.5	4.4	6.4	5.8	4.9	6.2	4.6	6.4	5.4	5.3
BAR FRC 123	9	5.4	4.0	6.3	5.8	4.6	6.2	4.2	6.6	5.0	5.2
PPG-FRR-134	30	5.0	4.0	6.4	6.0	4.1	6.7	4.3	6.7	5.0	5.2
*BRITTANY 2	7	5.4	3.9	6.3	5.9	4.3	6.5	4.0	6.7	4.8	5.2
*QUATRO	5	4.4	4.3	6.3	5.7	4.8	6.1	4.5	6.3	5.4	5.2
*HYPE (5Z5)	24	5.1	3.8	6.3	5.8	4.1	6.4	4.2	6.6	4.9	5.1
RAD-FC59	16	5.2	3.9	6.1	5.7	4.4	6.2	4.0	6.5	4.9	5.1
5Z2	22	4.6	3.9	6.1	5.8	4.0	6.4	4.0	6.5	4.8	5.0
*JAMESTOWN VII	17	4.9	3.7	6.1	5.7	4.0	6.3	4.0	6.5	4.7	5.0
PST-4SWTM	39	4.4	3.8	6.0	5.6	4.1	6.2	4.0	6.3	4.8	4.9
*HARBOR MR (PPG-FRR 132)	35	4.2	3.7	6.0	5.7	3.6	6.5	3.9	6.4	4.5	4.8
*CARDINAL II	31	3.4	3.9	6.0	5.7	3.6	6.5	4.0	6.2	4.7	4.7
*FOX FIRE 2	8	3.7	3.8	6.0	5.6	3.6	6.5	3.9	6.2	4.6	4.7
*SHADOW IV (PST-4SHAD)	40	4.7	3.5	5.8	5.5	3.7	6.1	3.7	6.2	4.4	4.7
DLF-FRR-3128	26	3.2	3.9	5.9	5.7	3.6	6.6	3.8	6.2	4.6	4.7
BAR FO 131	10	4.0	3.7	5.9	5.3	3.9	5.9	4.0	6.0	4.7	4.7
*MESO (STB1)	23	4.3	3.5	5.8	5.5	3.5	6.3	3.7	6.2	4.4	4.7
RAD-FR64	21	3.0	3.9	5.7	5.5	3.6	6.3	3.7	5.9	4.5	4.5
*KEVIN	15	3.1	3.7	5.8	5.5	3.3	6.5	3.7	6.0	4.4	4.5
*SEABREEZE GT	2	2.9	3.7	5.4	5.3	3.6	6.1	3.2	5.7	4.2	4.3
*BOREAL	27	2.0	3.3	5.2	4.9	2.9	5.8	3.2	5.3	4.0	3.9
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		11.9	14.6	9.5	10.3	13.2	9.5	13.8	9.1	11.7	11.5

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2024

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

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

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

TABLE 1B.

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/											
NAME	# ENTRY	NJ2	MD1	VA1	WI1	MN1	IA1	KS1	UT1	QE1	MEAN
PPG-FRC-130	28	6.1	4.1	6.6	6.1	4.8	6.5	4.5	7.0	5.2	5.5
DLFPS-FRC-3105	32	6.3	4.0	6.5	6.1	4.7	6.5	4.4	7.0	5.1	5.5
RADAR II (PPG-FRC 127)	34	6.2	4.0	6.5	6.1	4.7	6.5	4.3	7.0	5.1	5.5
BAR FRC 130	14	5.5	4.2	6.4	5.9	4.8	6.3	4.4	6.7	5.2	5.4
COMPASS II	29	5.6	4.0	6.5	6.0	4.4	6.6	4.3	6.9	5.0	5.3
PVF-MVP-2020	43	6.3	3.8	6.4	5.9	4.5	6.3	4.3	6.9	5.0	5.3
RESONANCE (NAI-CHU1)	18	6.5	3.7	6.3	5.9	4.5	6.2	4.1	6.8	4.8	5.3
BAR FRC 123	9	5.4	4.0	6.3	5.8	4.6	6.2	4.2	6.6	5.0	5.2
BRITTANY 2	7	5.4	3.9	6.3	5.9	4.3	6.5	4.0	6.7	4.8	5.2
RAD-FC59	16	5.2	3.9	6.1	5.7	4.4	6.2	4.0	6.5	4.9	5.1
JAMESTOWN VII	17	4.9	3.7	6.1	5.7	4.0	6.3	4.0	6.5	4.7	5.0
PST-4SWTM	39	4.4	3.8	6.0	5.6	4.1	6.2	4.0	6.3	4.8	4.9
SHADOW IV (PST-4SHAD)	40	4.7	3.5	5.8	5.5	3.7	6.1	3.7	6.2	4.4	4.7
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		10.8	15.5	9.6	10.3	13.6	9.5	14.5	9.0	12.3	11.6

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

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

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

TABLE 1C.

TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2023 DATA

NAME	# ENTRY	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									MEAN
		NJ2	MD1	VA1	WI1	MN1	IA1	KS1	UT1	QE1	
NAVIGATOR III (PPG-FRR 127)	37	6.5	3.7	6.6	6.0	4.4	6.4	4.5	7.0	5.0	5.5
BYE	25	5.2	4.1	6.5	6.1	4.3	6.7	4.4	6.8	5.1	5.3
PVF-HSY+	42	5.5	3.9	6.5	6.0	4.3	6.6	4.5	6.8	5.0	5.3
PPG-FRR-134	30	5.0	4.0	6.4	6.0	4.1	6.7	4.3	6.7	5.0	5.2
HYPE (5Z5)	24	5.1	3.8	6.3	5.8	4.1	6.4	4.2	6.6	4.9	5.1
5Z2	22	4.6	3.9	6.1	5.8	4.0	6.4	4.0	6.5	4.8	5.0
HARBOR MR (PPG-FRR 132)	35	4.2	3.7	6.0	5.7	3.6	6.5	3.9	6.4	4.5	4.8
CARDINAL II	31	3.4	3.9	6.0	5.7	3.6	6.5	4.0	6.2	4.7	4.7
FOXFIRE 2	8	3.7	3.8	6.0	5.6	3.6	6.5	3.9	6.2	4.6	4.7
DLF-FRR-3128	26	3.2	3.9	5.9	5.7	3.6	6.6	3.8	6.2	4.6	4.7
MESO (STB1)	23	4.3	3.5	5.8	5.5	3.5	6.3	3.7	6.2	4.4	4.7
RAD-FR64	21	3.0	3.9	5.7	5.5	3.6	6.3	3.7	5.9	4.5	4.5
KEVIN	15	3.1	3.7	5.8	5.5	3.3	6.5	3.7	6.0	4.4	4.5
BOREAL	27	2.0	3.3	5.2	4.9	2.9	5.8	3.2	5.3	4.0	3.9
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		14.4	15.9	10.0	10.6	15.9	9.4	15.2	9.5	12.9	12.4

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

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

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

TABLE 1D.

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

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

NAME	# ENTRY	NJ2	MD1	VA1	WI1	MN1	IA1	KS1	UT1	QE1	MEAN
PVF-PDB-2020	41	6.6	5.2	7.4	6.7	6.3	6.8	5.7	7.5	6.5	6.4
SWORD II (NAI-HAQ1+2)	19	6.4	5.0	7.2	6.5	6.0	6.6	5.5	7.3	6.3	6.2
DLFPS-FL-3104	4	6.6	4.9	7.2	6.3	6.1	6.3	5.5	7.2	6.3	6.1
TENACIOUS (NAI-HTB2)	20	6.2	4.8	7.1	6.4	5.8	6.5	5.3	7.2	6.1	6.0
BEACON II (PPG-FL 128)	36	6.7	4.6	7.0	6.2	5.8	6.2	5.2	7.1	6.0	6.0
SPHD-20	3	5.5	5.0	7.1	6.4	5.8	6.6	5.3	7.0	6.2	6.0
RESOLUTE	6	6.2	4.8	7.0	6.2	5.9	6.3	5.2	7.1	6.1	6.0
GLADIATOR	1	5.4	5.1	7.0	6.4	5.9	6.6	5.2	7.0	6.2	5.9
DA5-RHF	38	6.3	4.7	7.0	6.3	5.6	6.5	5.1	7.1	5.9	5.9
BAR FT 135	12	5.5	4.8	7.0	6.3	5.5	6.6	5.3	7.0	6.0	5.8
BAR FT 132	13	4.8	4.6	6.6	5.9	5.2	6.3	4.9	6.6	5.7	5.5
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		10.0	12.4	8.6	9.6	10.4	9.3	11.4	8.5	9.9	10.1

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

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

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

TABLE 1E.

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

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

NAME	# ENTRY	NJ2	MD1	VA1	WI1	MN1	IA1	KS1	UT1	QE1	MEAN
BLUE HORNET (PPG-FO-102)	33	4.5	4.4	6.4	5.8	4.9	6.2	4.6	6.4	5.4	5.3
QUATRO	5	4.4	4.3	6.3	5.7	4.8	6.1	4.5	6.3	5.4	5.2
BAR FO 131	10	4.0	3.7	5.9	5.3	3.9	5.9	4.0	6.0	4.7	4.7
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		14.1	14.6	9.8	10.8	13.2	9.9	13.8	9.6	11.7	12.0

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

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

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

TABLE 1F.

TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2023 DATA

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

NAME	# ENTRY	NJ2	MD1	VA1	WI1	MN1	IA1	KS1	UT1	QE1	MEAN
BAR FRL 122	11	5.7	4.0	6.3	5.8	4.7	6.2	4.2	6.7	5.1	5.3
SEABREEZE GT	2	2.9	3.7	5.4	5.3	3.6	6.1	3.2	5.7	4.2	4.3
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		14.1	15.7	10.3	10.9	14.7	9.8	16.3	9.7	13.0	12.6

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

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

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

TABLE 2A.

TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2023 DATA

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

NAME	# ENTRY	IN1	MI1	MI2	WA1	MEAN
RESONANCE (NAI-CHU1)	18	6.6	7.1	7.1	5.0	6.5
DLFPS-FRC-3105	32	6.2	7.0	6.8	5.2	6.3
RADAR II (PPG-FRC 127)	34	6.3	6.9	6.8	5.2	6.3
BRITTANY 2	7	6.4	6.7	6.5	5.3	6.2
PPG-FRC-130	28	5.7	6.7	6.5	5.2	6.0
PVF-MVP-2020	43	5.7	6.6	6.4	5.0	5.9
COMPASS II	29	5.8	6.5	6.1	5.2	5.9
NAVIGATOR III (PPG-FRR 127)	37	5.4	6.4	5.9	5.0	5.7
BYE	25	5.4	6.2	5.6	5.3	5.6
PPG-FRR-134	30	5.5	6.0	5.4	5.3	5.5
5Z2	22	5.4	6.0	5.6	5.1	5.5
HARBOR MR (PPG-FRR 132)	35	5.7	5.8	5.1	5.2	5.4
SHADOW IV (PST-4SHAD)	40	5.5	5.9	5.5	4.8	5.4
PVF-HSY+	42	5.1	6.0	5.4	5.1	5.4
MESO (STB1)	23	5.7	5.7	5.2	5.0	5.4
RAD-FC59	16	4.9	6.1	5.8	4.8	5.4
JAMESTOWN VII	17	5.2	5.9	5.5	4.9	5.4
BAR FRL 122	11	4.6	6.2	5.9	4.7	5.3
BAR FRC 130	14	4.5	6.2	5.8	4.8	5.3
HYPE (5Z5)	24	5.0	5.9	5.3	5.0	5.3
BAR FRC 123	9	4.6	6.1	5.7	4.8	5.3
SEABREEZE GT	2	5.2	5.5	5.2	4.8	5.2
DLF-FRR-3128	26	4.9	5.3	4.5	5.1	5.0
PST-4SWTM	39	4.3	5.6	5.0	4.7	4.9
DA5-RHF	38	3.0	6.0	5.5	4.7	4.8
FOXFIRE 2	8	4.5	5.2	4.3	4.9	4.7
KEVIN	15	4.6	5.0	4.1	4.9	4.7
CARDINAL II	31	4.2	5.0	4.1	4.9	4.6
PVF-PDB-2020	41	2.1	6.1	5.4	4.8	4.6
RAD-FR64	21	4.1	5.0	4.2	4.8	4.5
TENACIOUS (NAI-HTB2)	20	2.2	5.8	5.1	4.6	4.4
BEACON II (PPG-FL 128)	36	2.1	5.8	5.2	4.3	4.4
SWORD II (NAI-HAQ1+2)	19	1.9	5.8	5.0	4.6	4.3
RESOLUTE	6	1.7	5.6	4.9	4.3	4.1
GLADIATOR	1	1.6	5.5	4.7	4.6	4.1
DLFPS-FL-3104	4	1.3	5.6	4.8	4.3	4.0
SPHD-20	3	1.3	5.3	4.4	4.5	3.9
BLUE HORNET (PPG-FO-102)	33	1.9	5.0	4.1	4.3	3.8
BAR FT 135	12	1.5	5.1	4.1	4.5	3.8
BAR FO 131	10	2.4	4.6	3.6	4.1	3.7
BAR FT 132	13	1.2	4.8	3.8	4.2	3.5
QUATRO	5	1.2	4.6	3.7	4.1	3.4
BOREAL	27	2.7	3.9	2.8	4.1	3.4
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		14.8	10.5	11.7	12.6	12.2

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

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

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

TABLE 2B.

TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2023 DATA

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

NAME	# ENTRY	IN1	MI1	MI2	WA1	MEAN
RESONANCE (NAI-CHU1)	18	6.6	7.1	7.1	5.0	6.5
DLFPS-FRC-3105	32	6.2	7.0	6.8	5.2	6.3
RADAR II (PPG-FRC 127)	34	6.3	6.9	6.8	5.2	6.3
BRITTANY 2	7	6.4	6.7	6.5	5.3	6.2
PPG-FRC-130	28	5.7	6.7	6.5	5.2	6.0
PVF-MVP-2020	43	5.7	6.6	6.4	5.0	5.9
COMPASS II	29	5.8	6.5	6.1	5.2	5.9
SHADOW IV (PST-4SHAD)	40	5.5	5.9	5.5	4.8	5.4
RAD-FC59	16	4.9	6.1	5.8	4.8	5.4
JAMESTOWN VII	17	5.2	5.9	5.5	4.9	5.4
BAR FRC 130	14	4.5	6.2	5.8	4.8	5.3
BAR FRC 123	9	4.6	6.1	5.7	4.8	5.3
PST-4SWTM	39	4.3	5.6	5.0	4.7	4.9
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		10.9	9.4	9.9	12.1	10.5

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

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

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

TABLE 2C.

TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2023 DATA

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

NAME	# ENTRY	IN1	MI1	MI2	WA1	MEAN
NAVIGATOR III (PPG-FRR 127)	37	5.4	6.4	5.9	5.0	5.7
BYE	25	5.4	6.2	5.6	5.3	5.6
PPG-FRR-134	30	5.5	6.0	5.4	5.3	5.5
5Z2	22	5.4	6.0	5.6	5.1	5.5
HARBOR MR (PPG-FRR 132)	35	5.7	5.8	5.1	5.2	5.4
PVF-HSY+	42	5.1	6.0	5.4	5.1	5.4
MESO (STB1)	23	5.7	5.7	5.2	5.0	5.4
HYPE (5Z5)	24	5.0	5.9	5.3	5.0	5.3
DLF-FRR-3128	26	4.9	5.3	4.5	5.1	5.0
FOXFIRE 2	8	4.5	5.2	4.3	4.9	4.7
KEVIN	15	4.6	5.0	4.1	4.9	4.7
CARDINAL II	31	4.2	5.0	4.1	4.9	4.6
RAD-FR64	21	4.1	5.0	4.2	4.8	4.5
BOREAL	27	2.7	3.9	2.8	4.1	3.4
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		12.4	10.9	12.5	12.1	12.0

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

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

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

TABLE 2D.

TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
 2023 DATA

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

NAME	# ENTRY	IN1	MI1	MI2	WA1	MEAN
DA5-RHF	38	3.0	6.0	5.5	4.7	4.8
PVF-PDB-2020	41	2.1	6.1	5.4	4.8	4.6
TENACIOUS (NAI-HTB2)	20	2.2	5.8	5.1	4.6	4.4
BEACON II (PPG-FL 128)	36	2.1	5.8	5.2	4.3	4.4
SWORD II (NAI-HAQ1+2)	19	1.9	5.8	5.0	4.6	4.3
RESOLUTE	6	1.7	5.6	4.9	4.3	4.1
GLADIATOR	1	1.6	5.5	4.7	4.6	4.1
DLFPS-FL-3104	4	1.3	5.6	4.8	4.3	4.0
SPHD-20	3	1.3	5.3	4.4	4.5	3.9
BAR FT 135	12	1.5	5.1	4.1	4.5	3.8
BAR FT 132	13	1.2	4.8	3.8	4.2	3.5
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		33.5	10.8	12.5	13.4	14.5

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

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

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

TABLE 2E.

TURFGRASS QUALITY RATINGS OF SHEEP FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2023 DATA

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

NAME	# ENTRY	IN1	MI1	MI2	WA1	MEAN
BLUE HORNET (PPG-FO-102)	33	1.9	5.0	4.1	4.3	3.8
BAR FO 131	10	2.4	4.6	3.6	4.1	3.7
QUATRO	5	1.2	4.6	3.7	4.1	3.4
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		32.6	12.8	15.8	14.5	16.6

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

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

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

TABLE 2F.

TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2023 DATA

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

NAME	# ENTRY	IN1	MI1	MI2	WA1	MEAN
BAR FRL 122	11	4.6	6.2	5.9	4.7	5.3
SEABREEZE GT	2	5.2	5.5	5.2	4.8	5.2
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		12.3	10.3	10.9	12.7	11.5

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

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

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

TABLE 3A.

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

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

NAME	# ENTRY	CT1	NJ1	NC1	MEAN
NAVIGATOR III (PPG-FRR 127)	37	6.7	6.0	7.9	6.9
PVF-HSY+	42	6.6	5.8	7.3	6.6
PPG-FRR-134	30	6.7	5.5	6.9	6.4
BYE	25	6.7	5.4	6.8	6.3
HYPE (5Z5)	24	6.5	5.3	6.7	6.1
HARBOR MR (PPG-FRR 132)	35	6.4	5.3	6.6	6.1
COMPASS II	29	6.7	4.8	6.4	6.0
PVF-MVP-2020	43	6.6	4.7	6.6	6.0
MESO (STB1)	23	6.3	5.0	6.4	5.9
DLFPS-FRC-3105	32	6.8	4.5	6.3	5.9
RADAR II (PPG-FRC 127)	34	6.8	4.4	6.3	5.8
PPG-FRC-130	28	6.8	4.5	6.2	5.8
FOXFIRE 2	8	6.2	5.2	6.1	5.8
BRITTANY 2	7	6.7	4.5	6.2	5.8
RESONANCE (NAI-CHU1)	18	6.7	4.2	6.3	5.7
CARDINAL II	31	6.2	5.0	5.8	5.6
JAMESTOWN VII	17	6.3	4.6	6.0	5.6
KEVIN	15	6.1	4.9	5.7	5.6
5Z2	22	6.4	4.4	5.8	5.5
SHADOW IV (PST-4SHAD)	40	6.2	4.3	5.9	5.5
DLF-FRR-3128	26	6.2	4.3	5.1	5.2
BAR FT 135	12	6.3	4.3	4.7	5.1
BAR FRC 123	9	6.3	3.8	5.1	5.1
DA5-RHF	38	6.5	3.9	4.8	5.1
BAR FRL 122	11	6.3	3.8	5.2	5.1
PST-4SWTM	39	6.1	4.0	5.1	5.1
TENACIOUS (NAI-HTB2)	20	6.5	4.0	4.7	5.0
RAD-FC59	16	6.3	3.6	5.0	5.0
BAR FRC 130	14	6.4	3.6	4.8	5.0
BEACON II (PPG-FL 128)	36	6.3	3.8	4.7	4.9
SWORD II (NAI-HAQ1+2)	19	6.5	3.8	4.4	4.9
PVF-PDB-2020	41	6.7	3.7	4.3	4.9
BAR FO 131	10	5.6	4.0	4.7	4.8
DLFPS-FL-3104	4	6.3	3.6	4.2	4.7
RAD-FR64	21	5.9	3.7	4.3	4.7
SPHD-20	3	6.3	3.5	3.8	4.5
RESOLUTE	6	6.2	3.3	3.9	4.5
BOREAL	27	5.3	3.9	4.3	4.5
BAR FT 132	13	5.9	3.5	3.8	4.4
BLUE HORNET (PPG-FO-102)	33	5.9	3.2	3.6	4.2
QUATRO	5	5.7	3.3	3.6	4.2
GLADIATOR	1	6.3	3.0	3.2	4.2
SEABREEZE GT	2	5.9	2.3	3.2	3.8
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		9.5	14.2	11.4	11.4

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

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

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

TABLE 3B.

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

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

NAME	# ENTRY	CT1	NJ1	NC1	MEAN
COMPASS II	29	6.7	4.8	6.4	6.0
PVF-MVP-2020	43	6.6	4.7	6.6	6.0
DLFPS-FRC-3105	32	6.8	4.5	6.3	5.9
RADAR II (PPG-FRC 127)	34	6.8	4.4	6.3	5.8
PPG-FRC-130	28	6.8	4.5	6.2	5.8
BRITTANY 2	7	6.7	4.5	6.2	5.8
RESONANCE (NAI-CHU1)	18	6.7	4.2	6.3	5.7
JAMESTOWN VII	17	6.3	4.6	6.0	5.6
SHADOW IV (PST-4SHAD)	40	6.2	4.3	5.9	5.5
BAR FRC 123	9	6.3	3.8	5.1	5.1
PST-4SWTM	39	6.1	4.0	5.1	5.1
RAD-FC59	16	6.3	3.6	5.0	5.0
BAR FRC 130	14	6.4	3.6	4.8	5.0
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		9.3	14.1	10.3	10.9

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

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

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

TABLE 3C.

TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2023 DATA

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

NAME	# ENTRY	CT1	NJ1	NC1	MEAN
NAVIGATOR III (PPG-FRR 127)	37	6.7	6.0	7.9	6.9
PVF-HSY+	42	6.6	5.8	7.3	6.6
PPG-FRR-134	30	6.7	5.5	6.9	6.4
BYE	25	6.7	5.4	6.8	6.3
HYPE (5Z5)	24	6.5	5.3	6.7	6.1
HARBOR MR (PPG-FRR 132)	35	6.4	5.3	6.6	6.1
MESO (STB1)	23	6.3	5.0	6.4	5.9
FOXFIRE 2	8	6.2	5.2	6.1	5.8
CARDINAL II	31	6.2	5.0	5.8	5.6
KEVIN	15	6.1	4.9	5.7	5.6
5Z2	22	6.4	4.4	5.8	5.5
DLF-FRR-3128	26	6.2	4.3	5.1	5.2
RAD-FR64	21	5.9	3.7	4.3	4.7
BOREAL	27	5.3	3.9	4.3	4.5
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		9.6	12.1	9.9	10.4

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

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

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

TABLE 3D.

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

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

NAME	# ENTRY	CT1	NJ1	NC1	MEAN
BAR FT 135	12	6.3	4.3	4.7	5.1
DA5-RHF	38	6.5	3.9	4.8	5.1
TENACIOUS (NAI-HTB2)	20	6.5	4.0	4.7	5.0
BEACON II (PPG-FL 128)	36	6.3	3.8	4.7	4.9
SWORD II (NAI-HAQ1+2)	19	6.5	3.8	4.4	4.9
PVF-PDB-2020	41	6.7	3.7	4.3	4.9
DLFPS-FL-3104	4	6.3	3.6	4.2	4.7
SPHD-20	3	6.3	3.5	3.8	4.5
RESOLUTE	6	6.2	3.3	3.9	4.5
BAR FT 132	13	5.9	3.5	3.8	4.4
GLADIATOR	1	6.3	3.0	3.2	4.2
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		9.5	16.4	14.3	12.7

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

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

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

TABLE 3E.

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

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

NAME	# ENTRY	CT1	NJ1	NC1	MEAN
BAR FO 131	10	5.6	4.0	4.7	4.8
BLUE HORNET (PPG-FO-102)	33	5.9	3.2	3.6	4.2
QUATRO	5	5.7	3.3	3.6	4.2
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		10.5	17.2	15.3	13.7

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

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

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

TABLE 3F.

TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2023 DATA

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

NAME	# ENTRY	CT1	NJ1	NC1	MEAN
BAR FRL 122	11	6.3	3.8	5.2	5.1
SEABREEZE GT	2	5.9	2.3	3.2	3.8
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		9.9	19.9	14.5	13.6

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

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

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

TABLE 4A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN ON A FAIRWAY AT ST. PAUL, MN 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER		QUALITY RATINGS						
			SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PVF-PDB-2020	5.0	3.0	31.7	95.3	5.7	5.7	5.7	6.0	6.0	6.3	5.9
BYE	4.7	3.3	25.3	89.7	6.0	5.3	5.3	6.3	6.0	6.0	5.8
BAR FRL 122	3.0	2.7	27.3	90.7	5.7	5.3	5.0	6.3	6.0	6.0	5.7
MESO (STB1)	4.7	4.3	31.7	96.3	5.7	5.0	5.7	5.7	5.7	6.3	5.7
SWORD II (NAI-HAQ1+2)	4.3	3.0	21.7	94.7	5.0	5.3	5.3	5.7	5.7	6.0	5.5
BAR FRC 123	3.7	3.7	33.0	91.7	6.0	6.0	5.3	5.7	4.7	5.0	5.4
BEACON II (PPG-FL 128)	4.3	3.0	26.3	93.3	5.0	5.0	5.0	5.3	5.3	6.0	5.3
NAVIGATOR III (PPG-FRR 127)	6.3	4.3	35.0	92.0	5.7	5.0	5.0	5.0	5.3	5.7	5.3
PPG-FRC-130	3.3	3.3	29.7	88.3	5.7	5.3	5.0	5.7	5.0	5.0	5.3
PPG-FRR-134	4.7	3.0	32.3	91.3	4.7	4.7	4.7	6.3	5.7	5.7	5.3
RADAR II (PPG-FRC 127)	3.3	2.3	18.3	92.3	5.3	5.3	5.3	6.0	4.7	5.0	5.3
TENACIOUS (NAI-HTB2)	5.3	3.7	30.0	94.7	5.3	5.3	5.3	5.3	5.0	5.3	5.3
BAR FRC 130	2.3	2.7	22.7	94.0	5.3	5.0	5.0	5.3	5.0	5.3	5.2
RESOLUTE	5.0	3.0	23.7	95.7	5.0	5.0	5.0	5.7	5.3	5.3	5.2
BRITTANY 2	3.7	3.3	28.0	87.7	5.3	5.3	5.3	5.3	4.7	4.7	5.1
COMPASS II	4.0	4.0	29.0	91.3	5.0	4.7	4.7	5.7	5.0	5.3	5.1
DA5-RHF	6.0	4.0	34.0	94.7	4.7	4.3	5.0	5.0	5.3	6.0	5.1
HYPE (5Z5)	4.3	4.0	36.3	88.3	5.3	4.7	4.7	5.7	4.7	5.7	5.1
RESONANCE (NAI-CHU1)	3.3	2.7	20.3	89.0	5.3	5.0	4.7	5.7	5.0	5.0	5.1
GLADIATOR	4.3	3.0	27.7	96.3	5.3	4.3	5.3	5.3	4.7	5.0	5.0
5Z2	4.7	5.0	36.3	88.7	5.3	4.3	4.7	5.0	4.7	5.7	4.9
PVF-MVP-2020	4.0	2.7	21.0	90.7	4.7	4.7	4.3	5.3	5.0	5.3	4.9
DLF-FRR-3128	5.3	5.3	40.7	82.0	5.0	4.7	5.0	5.0	4.3	4.7	4.8
DLFPS-FL-3104	6.0	4.3	33.0	95.0	5.0	4.7	4.3	4.7	5.0	5.3	4.8
QUATRO	6.0	5.3	50.0	95.3	4.7	4.0	4.3	4.7	5.0	5.3	4.7
SHADOW IV (PST-4SHAD)	4.0	3.3	27.3	85.0	5.3	5.0	4.0	4.7	4.3	4.7	4.7
SPHD-20	5.3	4.0	28.7	95.7	4.7	4.7	4.7	4.7	4.7	5.0	4.7
BLUE HORNET (PPG-FO-102)	6.3	4.7	46.0	95.0	4.7	4.3	4.0	3.7	5.3	5.3	4.6
DLFPS-FRC-3105	3.0	2.3	19.7	86.0	4.7	4.7	5.0	4.7	4.3	4.3	4.6
PVF-HSY+	4.0	4.7	35.3	78.0	5.0	4.7	4.3	4.7	4.0	4.7	4.6
RAD-FC59	7.3	5.0	35.0	89.7	5.0	5.0	4.0	5.3	3.7	4.3	4.6
HARBOR MR (PPG-FRR 132)	3.7	3.3	23.7	88.0	4.7	4.0	4.7	4.7	4.0	5.0	4.5
RAD-FR64	6.7	3.3	17.7	85.7	4.3	5.0	4.0	5.3	4.0	4.3	4.5
BAR FT 135	6.0	4.7	40.7	93.3	4.7	4.7	3.7	4.0	4.3	5.3	4.4
KEVIN	5.7	5.7	40.0	85.3	5.0	4.7	4.7	4.0	4.3	4.0	4.4
CARDINAL II	6.0	6.0	49.7	81.0	4.0	4.0	4.0	4.7	4.0	5.0	4.3
FOXFIRE 2	5.3	4.0	28.3	81.7	5.0	4.3	4.0	5.0	4.0	3.3	4.3
JAMESTOWN VII	4.3	1.7	34.0	89.7	4.7	4.7	3.7	4.7	4.3	4.0	4.3
PST-4SWTM	3.3	4.3	40.3	84.7	5.0	5.0	4.7	4.3	3.3	3.3	4.3
SEABREEZE GT	3.7	3.3	36.3	80.3	4.3	3.7	4.3	5.0	4.0	4.0	4.2
BAR FO 131	5.3	2.3	14.3	88.0	4.7	4.3	4.0	4.0	4.0	3.7	4.1
BAR FT 132	6.0	5.0	40.7	92.0	4.3	4.0	3.7	3.7	4.0	4.7	4.1
BOREAL	4.7	5.3	34.0	75.3	2.7	3.0	3.0	3.0	2.0	2.0	2.6
LSD VALUE	1.4	1.4	22.2	5.9	1.7	1.0	1.3	1.0	1.0	1.4	0.7
C.V. (%)	18.9	22.7	33.2	4.2	15.0	11.9	14.9	12.2	13.3	16.7	8.6

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

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

TABLE 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN ON A FAIRWAY AT ST. PAUL, MN 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER SPRING	COVER FALL	QUALITY RATINGS						MEAN
					MAY	JUN	JUL	AUG	SEP	OCT	
BAR FRC 123	3.7	3.7	33.0	91.7	6.0	6.0	5.3	5.7	4.7	5.0	5.4
PPG-FRC-130	3.3	3.3	29.7	88.3	5.7	5.3	5.0	5.7	5.0	5.0	5.3
RADAR II (PPG-FRC 127)	3.3	2.3	18.3	92.3	5.3	5.3	5.3	6.0	4.7	5.0	5.3
BAR FRC 130	2.3	2.7	22.7	94.0	5.3	5.0	5.0	5.3	5.0	5.3	5.2
BRITTANY 2	3.7	3.3	28.0	87.7	5.3	5.3	5.3	5.3	4.7	4.7	5.1
COMPASS II	4.0	4.0	29.0	91.3	5.0	4.7	4.7	5.7	5.0	5.3	5.1
RESONANCE (NAI-CHU1)	3.3	2.7	20.3	89.0	5.3	5.0	4.7	5.7	5.0	5.0	5.1
PVF-MVP-2020	4.0	2.7	21.0	90.7	4.7	4.7	4.3	5.3	5.0	5.3	4.9
SHADOW IV (PST-4SHAD)	4.0	3.3	27.3	85.0	5.3	5.0	4.0	4.7	4.3	4.7	4.7
DLFPS-FRC-3105	3.0	2.3	19.7	86.0	4.7	4.7	5.0	4.7	4.3	4.3	4.6
RAD-FC59	7.3	5.0	35.0	89.7	5.0	5.0	4.0	5.3	3.7	4.3	4.6
JAMESTOWN VII	4.3	1.7	34.0	89.7	4.7	4.7	3.7	4.7	4.3	4.0	4.3
PST-4SWTM	3.3	4.3	40.3	84.7	5.0	5.0	4.7	4.3	3.3	3.3	4.3
LSD VALUE	1.4	1.2	38.9	6.5	2.5	1.4	1.0	0.9	1.2	1.6	0.7
C.V. (%)	21.8	21.6	48.9	3.5	16.3	11.4	11.7	9.0	12.8	15.5	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 4C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN ON A FAIRWAY AT ST. PAUL, MN 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER		QUALITY RATINGS						MEAN
			SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	
BYE	4.7	3.3	25.3	89.7	6.0	5.3	5.3	6.3	6.0	6.0	5.8
MESO (STB1)	4.7	4.3	31.7	96.3	5.7	5.0	5.7	5.7	5.7	6.3	5.7
NAVIGATOR III (PPG-FRR 127)	6.3	4.3	35.0	92.0	5.7	5.0	5.0	5.0	5.3	5.7	5.3
PPG-FRR-134	4.7	3.0	32.3	91.3	4.7	4.7	4.7	6.3	5.7	5.7	5.3
HYPE (5Z5)	4.3	4.0	36.3	88.3	5.3	4.7	4.7	5.7	4.7	5.7	5.1
5Z2	4.7	5.0	36.3	88.7	5.3	4.3	4.7	5.0	4.7	5.7	4.9
DLF-FRR-3128	5.3	5.3	40.7	82.0	5.0	4.7	5.0	5.0	4.3	4.7	4.8
PVF-HSY+	4.0	4.7	35.3	78.0	5.0	4.7	4.3	4.7	4.0	4.7	4.6
HARBOR MR (PPG-FRR 132)	3.7	3.3	23.7	88.0	4.7	4.0	4.7	4.7	4.0	5.0	4.5
RAD-FR64	6.7	3.3	17.7	85.7	4.3	5.0	4.0	5.3	4.0	4.3	4.5
KEVIN	5.7	5.7	40.0	85.3	5.0	4.7	4.7	4.0	4.3	4.0	4.4
CARDINAL II	6.0	6.0	49.7	81.0	4.0	4.0	4.0	4.7	4.0	5.0	4.3
FOXFIRE 2	5.3	4.0	28.3	81.7	5.0	4.3	4.0	5.0	4.0	3.3	4.3
BOREAL	4.7	5.3	34.0	75.3	2.7	3.0	3.0	3.0	2.0	2.0	2.6
LSD VALUE	2.0	1.5	13.5	7.3	1.4	0.9	1.2	1.0	1.0	1.7	0.7
C.V. (%)	19.2	19.3	22.1	5.1	15.7	11.5	13.7	12.1	14.1	19.9	9.4

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

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

TABLE 4D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS
GROWN ON A FAIRWAY AT ST. PAUL, MN 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER		QUALITY RATINGS						MEAN
			SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	
PVF-PDB-2020	5.0	3.0	31.7	95.3	5.7	5.7	5.7	6.0	6.0	6.3	5.9
SWORD II (NAI-HA01+2)	4.3	3.0	21.7	94.7	5.0	5.3	5.3	5.7	5.7	6.0	5.5
BEACON II (PPG-FL 128)	4.3	3.0	26.3	93.3	5.0	5.0	5.0	5.3	5.3	6.0	5.3
TENACIOUS (NAI-HTB2)	5.3	3.7	30.0	94.7	5.3	5.3	5.3	5.3	5.0	5.3	5.3
RESOLUTE	5.0	3.0	23.7	95.7	5.0	5.0	5.0	5.7	5.3	5.3	5.2
DA5-RHF	6.0	4.0	34.0	94.7	4.7	4.3	5.0	5.0	5.3	6.0	5.1
GLADIATOR	4.3	3.0	27.7	96.3	5.3	4.3	5.3	5.3	4.7	5.0	5.0
DLFPS-FL-3104	6.0	4.3	33.0	95.0	5.0	4.7	4.3	4.7	5.0	5.3	4.8
SPHD-20	5.3	4.0	28.7	95.7	4.7	4.7	4.7	4.7	4.7	5.0	4.7
BAR FT 135	6.0	4.7	40.7	93.3	4.7	4.7	3.7	4.0	4.3	5.3	4.4
BAR FT 132	6.0	5.0	40.7	92.0	4.3	4.0	3.7	3.7	4.0	4.7	4.1
LSD VALUE	1.5	1.7	19.1	9.0	1.1	1.0	2.0	1.7	1.5	1.8	0.8
C.V. (%)	14.4	22.3	27.0	3.2	9.8	10.3	18.4	16.2	14.0	13.5	8.8

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

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

TABLE 4E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS
GROWN ON A FAIRWAY AT ST. PAUL, MN 1/
2023 DATA

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER		QUALITY RATINGS						MEAN
			SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	
QUATRO	6.0	5.3	50.0	95.3	4.7	4.0	4.3	4.7	5.0	5.3	4.7
BLUE HORNET (PPG-FO-102)	6.3	4.7	46.0	95.0	4.7	4.3	4.0	3.7	5.3	5.3	4.6
BAR FO 131	5.3	2.3	14.3	88.0	4.7	4.3	4.0	4.0	4.0	3.7	4.1
LSD VALUE	2.0	2.4	26.1	3.2	1.3	1.5	1.2	1.2	0.8	2.3	0.7
C.V. (%)	15.0	25.6	30.5	1.5	12.4	15.8	12.8	12.8	7.0	20.3	6.7

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 4F.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN ON A FAIRWAY AT ST. PAUL, MN 1/
2023 DATA

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT GROUND COVER		QUALITY RATINGS						MEAN
			SPRING	FALL	MAY	JUN	JUL	AUG	SEP	OCT	
BAR FRL 122	3.0	2.7	27.3	90.7	5.7	5.3	5.0	6.3	6.0	6.0	5.7
SEABREEZE GT	3.7	3.3	36.3	80.3	4.3	3.7	4.3	5.0	4.0	4.0	4.2
LSD VALUE	2.0	2.4	26.1	3.2	1.3	1.5	1.2	1.2	0.8	2.3	0.7
C.V. (%)	32.4	54.4	46.4	3.3	8.2	9.1	8.7	7.2	14.1	0.0	2.4

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

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

TABLE 5A.

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

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS								MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BEACON II (PPG-FL 128)	7.0	6.3	6.3	7.0	5.7	6.0	6.7	7.0	6.7	7.0	6.0	6.5
SWORD II (NAI-HAQ1+2)	7.0	7.0	6.7	6.7	6.3	6.3	6.0	7.0	6.3	6.7	5.7	6.4
DLFPS-FL-3104	7.7	7.0	6.3	6.7	6.3	6.3	6.3	6.7	5.7	6.0	6.0	6.3
PVF-PDB-2020	6.3	5.7	7.0	6.7	5.7	5.7	6.7	6.0	6.3	6.3	6.0	6.2
TENACIOUS (NAI-HTB2)	6.7	6.0	5.7	6.7	6.3	6.3	6.0	5.7	6.3	6.0	6.0	6.2
COMPASS II	4.3	4.7	4.3	7.0	6.0	5.7	4.3	5.7	7.7	7.3	5.0	6.1
GLADIATOR	6.3	6.3	6.3	6.7	6.3	5.3	5.7	5.7	6.7	6.7	6.0	6.1
BRITTANY 2	5.3	5.0	4.7	7.0	6.7	5.7	4.7	5.0	7.0	7.0	5.0	6.0
PPG-FRC-130	5.3	5.0	5.0	6.7	6.0	6.0	4.7	5.3	7.0	6.7	5.3	6.0
DLFPS-FRC-3105	4.7	4.3	4.7	7.0	6.7	5.7	4.0	4.0	7.3	6.7	5.7	5.9
FOXFIRE 2	5.7	5.0	5.0	6.3	6.3	6.3	5.3	5.7	6.3	5.3	5.3	5.9
HYPE (5Z5)	4.7	4.3	4.0	6.3	6.3	6.7	5.3	6.3	6.3	6.0	4.0	5.9
SPHD-20	7.7	6.7	6.3	6.7	5.7	5.7	5.3	6.0	6.7	5.7	5.7	5.9
BAR FRL 122	6.0	6.0	5.3	5.7	5.7	5.3	5.3	6.0	6.7	6.7	5.0	5.8
BLUE HORNET (PPG-FO-102)	6.7	6.3	6.3	6.0	6.3	5.7	5.7	5.3	5.7	5.7	6.0	5.8
NAVIGATOR III (PPG-FRR 127)	5.7	5.0	4.7	6.3	6.0	5.7	5.0	5.7	6.7	6.0	5.0	5.8
RAD-FC59	5.3	5.0	4.3	5.7	5.7	5.0	5.3	6.0	6.3	6.0	6.0	5.8
RESOLUTE	6.7	5.7	6.0	6.7	6.3	5.7	5.3	5.3	6.0	5.7	5.0	5.8
SHADOW IV (PST-4SHAD)	4.0	3.7	3.7	5.7	5.3	5.3	4.7	5.7	7.3	6.3	5.7	5.8
DA5-RHF	7.3	6.7	6.7	6.0	6.0	6.0	5.3	5.3	6.0	5.3	5.7	5.7
PVF-MVP-2020	5.0	5.0	4.7	5.3	5.7	5.7	5.0	5.3	6.7	6.7	5.0	5.7
RADAR II (PPG-FRC 127)	5.3	5.3	5.0	7.0	6.3	5.7	4.3	4.3	6.3	6.3	5.0	5.7
5Z2	4.3	4.0	3.7	5.3	5.7	5.7	5.3	5.3	6.3	6.0	5.3	5.6
PST-4SWTM	5.0	4.3	4.7	5.3	5.7	5.7	4.7	5.3	6.7	6.0	5.7	5.6
BAR FRC 123	4.3	4.3	3.7	6.0	6.0	5.3	5.0	4.7	6.0	6.0	5.0	5.5
BYE	6.0	4.7	5.0	6.0	6.3	6.0	5.0	5.0	5.7	5.0	5.0	5.5
DLF-FRR-3128	4.7	4.0	4.7	5.7	6.0	5.3	4.7	5.3	6.0	5.3	5.3	5.5
HARBOR MR (PPG-FRR 132)	4.7	4.7	4.3	5.3	6.0	5.3	5.3	6.0	5.7	5.0	5.0	5.5
JAMESTOWN VII	4.7	4.3	3.7	5.0	6.0	5.3	4.3	5.3	6.3	6.7	4.7	5.5
MESO (STB1)	4.3	4.3	4.3	5.7	6.0	5.3	5.7	5.3	5.3	5.7	5.0	5.5
PPG-FRR-134	4.3	4.0	3.7	5.7	6.7	6.3	5.0	5.0	5.7	5.7	4.0	5.5
CARDINAL II	4.3	4.3	4.3	5.7	6.3	5.3	4.7	5.3	5.7	5.0	5.3	5.4
PVF-HSY+	4.3	4.0	3.7	5.7	5.7	5.0	5.0	5.3	6.3	6.0	4.3	5.4
QUATRO	7.0	6.3	6.0	5.7	5.7	5.7	5.0	5.0	5.7	5.3	5.0	5.4
SEABREEZE GT	6.0	5.3	5.3	5.7	6.3	5.3	4.7	5.0	5.3	5.3	5.7	5.4
BAR FT 132	5.3	5.3	4.7	5.7	5.7	4.7	5.3	5.0	5.7	5.3	5.3	5.3
BAR FT 135	6.0	5.3	5.0	5.7	5.7	5.0	5.0	5.0	5.3	5.3	5.7	5.3
KEVIN	4.3	4.0	3.7	5.3	6.0	5.3	4.3	5.0	5.7	6.0	4.3	5.3
RAD-FR64	4.3	4.0	4.0	5.3	5.7	5.0	5.7	4.7	6.0	5.3	4.7	5.3
BAR FO 131	3.7	4.0	3.7	5.3	5.7	4.7	4.7	5.0	6.0	5.0	5.0	5.2
BAR FRC 130	4.3	4.0	4.7	5.3	5.7	5.0	3.3	4.7	6.0	6.0	5.3	5.2
RESONANCE (NAI-CHU1)	3.7	4.0	3.7	6.0	6.3	5.3	2.3	4.0	6.0	6.3	4.7	5.1
BOREAL	5.0	4.0	4.7	5.0	5.7	4.7	4.7	5.0	4.7	4.0	4.7	4.8
LSD VALUE	1.0	0.8	0.8	0.8	1.0	1.0	1.5	0.6	0.9	0.9	0.6	0.4
C.V. (%)	12.5	10.5	10.7	7.9	7.5	9.3	16.2	7.8	8.9	9.0	7.5	4.7

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

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

TABLE 5B.

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

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS									MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
COMPASS II	4.3	4.7	4.3	7.0	6.0	5.7	4.3	5.7	7.7	7.3	5.0	6.1	
BRITTANY 2	5.3	5.0	4.7	7.0	6.7	5.7	4.7	5.0	7.0	7.0	5.0	6.0	
PPG-FRC-130	5.3	5.0	5.0	6.7	6.0	6.0	4.7	5.3	7.0	6.7	5.3	6.0	
DLFPS-FRC-3105	4.7	4.3	4.7	7.0	6.7	5.7	4.0	4.0	7.3	6.7	5.7	5.9	
RAD-FC59	5.3	5.0	4.3	5.7	5.7	5.0	5.3	6.0	6.3	6.0	6.0	5.8	
SHADOW IV (PST-4SHAD)	4.0	3.7	3.7	5.7	5.3	5.3	4.7	5.7	7.3	6.3	5.7	5.8	
PVF-MVP-2020	5.0	5.0	4.7	5.3	5.7	5.7	5.0	5.3	6.7	6.7	5.0	5.7	
RADAR II (PPG-FRC 127)	5.3	5.3	5.0	7.0	6.3	5.7	4.3	4.3	6.3	6.3	5.0	5.7	
PST-4SWTM	5.0	4.3	4.7	5.3	5.7	5.7	4.7	5.3	6.7	6.0	5.7	5.6	
BAR FRC 123	4.3	4.3	3.7	6.0	6.0	5.3	5.0	4.7	6.0	6.0	5.0	5.5	
JAMESTOWN VII	4.7	4.3	3.7	5.0	6.0	5.3	4.3	5.3	6.3	6.7	4.7	5.5	
BAR FRC 130	4.3	4.0	4.7	5.3	5.7	5.0	3.3	4.7	6.0	6.0	5.3	5.2	
RESONANCE (NAI-CHU1)	3.7	4.0	3.7	6.0	6.3	5.3	2.3	4.0	6.0	6.3	4.7	5.1	
LSD VALUE	1.6	1.1	1.2	0.7	0.9	1.4	1.2	0.7	1.0	1.2	0.9	0.4	
C.V. (%)	15.3	12.3	13.5	6.7	7.5	9.3	15.4	8.1	7.9	8.2	8.3	4.3	

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

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

TABLE 5C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/ 2023 DATA

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS								MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
FOXFIRE 2	5.7	5.0	5.0	6.3	6.3	6.3	5.3	5.7	6.3	5.3	5.3	5.9
HYPE (5Z5)	4.7	4.3	4.0	6.3	6.3	6.7	5.3	6.3	6.3	6.0	4.0	5.9
NAVIGATOR III (PPG-FRR 127)	5.7	5.0	4.7	6.3	6.0	5.7	5.0	5.7	6.7	6.0	5.0	5.8
5Z2	4.3	4.0	3.7	5.3	5.7	5.7	5.3	5.3	6.3	6.0	5.3	5.6
BYE	6.0	4.7	5.0	6.0	6.3	6.0	5.0	5.7	5.7	5.0	5.0	5.5
DLF-FRR-3128	4.7	4.0	4.7	5.7	6.0	5.3	4.7	5.3	6.0	5.3	5.3	5.5
HARBOR MR (PPG-FRR 132)	4.7	4.7	4.3	5.3	6.0	5.3	5.3	6.0	5.7	5.0	5.0	5.5
MESO (STB1)	4.3	4.3	4.3	5.7	6.0	5.3	5.7	5.3	5.3	5.7	5.0	5.5
PPG-FRR-134	4.3	4.0	3.7	5.7	6.7	6.3	5.0	5.0	5.7	5.7	4.0	5.5
CARDINAL II	4.3	4.3	4.3	5.7	6.3	5.3	4.7	5.3	5.7	5.0	5.3	5.4
PVF-HSY+	4.3	4.0	3.7	5.7	5.7	5.0	5.0	5.3	6.3	6.0	4.3	5.4
KEVIN	4.3	4.0	3.7	5.3	6.0	5.3	4.3	5.0	5.7	6.0	4.3	5.3
RAD-FR64	4.3	4.0	4.0	5.3	5.7	5.0	5.7	4.7	6.0	5.3	4.7	5.3
BOREAL	5.0	4.0	4.7	5.0	5.7	4.7	4.7	5.0	4.7	4.0	4.7	4.8
LSD VALUE	1.1	0.9	1.0	0.9	1.1	0.9	3.0	0.9	1.1	0.7	0.7	0.4
C.V. (%)	12.5	9.9	11.8	8.2	7.4	9.2	18.7	8.6	9.2	7.7	8.2	4.4

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 5D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/ 2023 DATA

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS								MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BEACON II (PPG-FL 128)	7.0	6.3	6.3	7.0	5.7	6.0	6.7	7.0	6.7	7.0	6.0	6.5
SWORD II (NAI-HAQ1+2)	7.0	7.0	6.7	6.7	6.3	6.3	6.0	7.0	6.3	6.7	5.7	6.4
DLFPS-FL-3104	7.7	7.0	6.3	6.7	6.3	6.3	6.3	6.7	5.7	6.0	6.0	6.3
PVF-PDB-2020	6.3	5.7	7.0	6.7	5.7	5.7	6.7	6.0	6.3	6.3	6.0	6.2
TENACIOUS (NAI-HTB2)	6.7	6.0	5.7	6.7	6.3	6.3	6.0	5.7	6.3	6.0	6.0	6.2
GLADIATOR	6.3	6.3	6.3	6.7	6.3	5.3	5.7	5.7	6.7	6.7	6.0	6.1
SPHD-20	7.7	6.7	6.3	6.7	5.7	5.7	5.3	6.0	6.7	5.7	5.7	5.9
RESOLUTE	6.7	5.7	6.0	6.7	6.3	5.7	5.3	5.3	6.0	5.7	5.0	5.8
DA5-RHF	7.3	6.7	6.7	6.0	6.0	6.0	5.3	5.3	6.0	5.3	5.7	5.7
BAR FT 132	5.3	5.3	4.7	5.7	5.7	4.7	5.3	5.0	5.7	5.3	5.3	5.3
BAR FT 135	6.0	5.3	5.0	5.7	5.7	5.0	5.0	5.0	5.3	5.3	5.7	5.3
LSD VALUE	1.0	0.9	0.7	1.0	0.8	0.7	1.2	0.7	1.4	1.1	0.7	0.4
C.V. (%)	8.2	8.2	7.1	7.5	6.3	7.3	10.2	7.1	10.0	9.7	6.3	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 5E.

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

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS								MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BLUE HORNET (PPG-FO-102)	6.7	6.3	6.3	6.0	6.3	5.7	5.7	5.3	5.7	5.7	6	5.8
QUATRO	7.0	6.3	6.0	5.7	5.7	5.7	5.0	5.7	5.7	5.3	5	5.4
BAR FO 131	3.7	4.0	3.7	5.3	5.7	4.7	4.7	5.0	6.0	5.0	5	5.2
LSD VALUE	2.0	1.2	0.9	1.3	1.5	1.6	3.1	0.8	1.2	1.3	0	1.0
C.V. (%)	15.3	9.5	7.7	10.2	11.3	13.3	26.1	6.5	9.1	10.8	0	8.1

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

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

TABLE 5F.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2023 DATA

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS								MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BAR FRL 122	6.0	6.0	5.3	5.7	5.7	5.3	5.3	6.0	6.7	6.7	5.0	5.8
SEABREEZE GT	6.0	5.3	5.3	5.7	6.3	5.3	4.7	5.0	5.3	5.3	5.7	5.4
LSD VALUE	2.0	1.2	0.9	1.3	1.5	1.6	3.1	0.8	1.2	1.3	0.0	1.0
C.V. (%)	11.8	7.2	0.0	0.0	6.8	0.0	8.2	0.0	13.6	13.6	7.7	5.5

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

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

TABLE 6A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS GROWN UNDER TRAFFIC STRESS AT EAST LANSING, MI 1/ 2023 DATA

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

NAME	SUMMER DENSITY	PERCENT SUMMER	GROUND COVER FALL	QUALITY RATINGS				MEAN
				JUL	AUG	SEP	OCT	
RESONANCE (NAI-CHU1)	5.7	97.7	97.7	7.3	6.3	5.7	6.0	6.3
PPG-FRC-130	5.3	97.7	99.0	6.0	6.3	6.0	6.3	6.2
RADAR II (PPG-FRC 127)	5.0	96.3	97.7	6.3	6.0	6.0	6.3	6.2
COMPASS II	5.3	93.3	94.7	6.7	6.0	5.7	5.7	6.0
BAR FRC 130	5.0	96.3	96.3	7.0	5.7	5.3	5.7	5.9
BRITTANY 2	5.3	97.7	96.3	6.3	6.0	5.3	5.7	5.8
DLFPS-FRC-3105	5.3	97.7	96.3	6.7	5.7	5.3	5.7	5.8
JAMESTOWN VII	5.3	97.7	96.3	6.7	6.0	5.3	5.3	5.8
NAVIGATOR III (PPG-FRR 127)	5.3	96.3	96.0	5.7	6.0	5.7	5.7	5.8
BAR FRC 123	5.3	96.3	93.3	6.7	5.7	4.7	5.7	5.7
BAR FRL 122	5.3	97.7	91.7	6.7	6.3	5.0	4.7	5.7
MESO (STB1)	6.0	95.0	83.3	6.7	6.0	4.3	5.0	5.5
PVF-MVP-2020	4.7	99.0	95.0	6.0	5.3	5.3	5.3	5.5
SHADOW IV (PST-4SHAD)	5.0	96.3	95.0	6.0	5.7	5.3	5.0	5.5
HARBOR MR (PPG-FRR 132)	5.7	96.3	86.7	6.7	6.3	4.3	4.3	5.4
PVF-HSY+	4.7	93.3	90.0	6.3	5.3	5.0	5.0	5.4
RAD-FC59	4.7	96.3	93.3	6.0	5.7	4.7	5.3	5.4
BYE	5.3	95.0	90.0	5.3	5.7	5.3	4.7	5.3
TENACIOUS (NAI-HTB2)	5.3	96.3	93.0	5.3	5.0	5.3	5.3	5.3
PPG-FRR-134	5.0	93.3	76.7	6.0	5.7	4.3	4.3	5.1
DA5-RHF	4.3	91.7	91.7	5.0	4.7	4.3	5.0	4.8
PST-4SWTM	4.3	93.3	83.3	5.7	5.3	4.3	4.0	4.8
PVF-PDB-2020	5.0	94.7	91.7	4.7	5.0	4.7	4.7	4.8
5Z2	4.3	95.0	73.3	5.7	5.3	3.7	4.0	4.7
DLFPS-FL-3104	4.7	96.3	85.0	5.0	5.0	4.3	4.3	4.7
SWORD II (NAI-HAQ1+2)	5.0	93.3	90.0	5.0	4.7	4.7	4.3	4.7
HYPE (5Z5)	4.7	90.0	80.0	5.3	4.7	4.0	3.7	4.4
BLUE HORNET (PPG-FO-102)	4.3	93.3	91.7	4.0	4.0	4.3	4.7	4.3
GLADIATOR	4.7	91.7	86.7	4.7	4.3	4.0	4.0	4.3
RESOLUTE	4.7	93.0	88.3	4.3	4.3	4.0	4.3	4.3
SEABREEZE GT	4.7	94.7	76.7	5.0	4.7	3.7	4.0	4.3
SPHD-20	4.7	93.3	80.0	4.3	4.7	3.7	4.0	4.2
FOXFIRE 2	4.0	86.7	66.7	5.0	4.3	3.7	3.0	4.0
BEACON II (PPG-FL 128)	4.3	93.3	83.3	4.3	3.7	3.7	4.0	3.9
CARDINAL II	4.7	91.7	60.0	5.3	4.7	2.7	3.0	3.9
BAR FO 131	3.3	90.0	73.3	4.0	3.7	3.7	3.7	3.8
BAR FT 135	4.0	91.7	73.3	4.3	4.0	3.3	3.7	3.8
RAD-FR64	4.0	86.7	73.3	4.7	4.0	3.0	3.7	3.8
BAR FT 132	3.7	85.0	73.3	4.3	3.3	3.3	3.3	3.6
KEVIN	4.0	91.7	70.0	4.7	4.0	2.7	3.0	3.6
QUATRO	4.3	85.0	75.0	3.7	3.7	3.3	3.7	3.6
DLF-FRR-3128	3.3	83.3	63.3	4.7	3.7	2.3	3.0	3.4
BOREAL	3.3	83.3	63.3	4.0	3.3	3.0	2.7	3.3
LSD VALUE	1.1	6.4	14.1	0.9	1.0	1.0	1.1	0.7
C.V. (%)	13.2	4.0	10.3	11.1	12.8	15.1	14.9	9.4

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

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

TABLE 6B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT EAST LANSING, MI 1/
2023 DATA

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

NAME	SUMMER DENSITY	PERCENT GROUND COVER			QUALITY RATINGS				MEAN
		SUMMER	FALL	JUL	AUG	SEP	OCT		
RESONANCE (NAI-CHU1)	5.7	97.7	97.7	7.3	6.3	5.7	6.0	6.3	
PPG-FRC-130	5.3	97.7	99.0	6.0	6.3	6.0	6.3	6.2	
RADAR II (PPG-FRC 127)	5.0	96.3	97.7	6.3	6.0	6.0	6.3	6.2	
COMPASS II	5.3	93.3	94.7	6.7	6.0	5.7	5.7	6.0	
BAR FRC 130	5.0	96.3	96.3	7.0	5.7	5.3	5.7	5.9	
BRITTANY 2	5.3	97.7	96.3	6.3	6.0	5.3	5.7	5.8	
DLFPS-FRC-3105	5.3	97.7	96.3	6.7	5.7	5.3	5.7	5.8	
JAMESTOWN VII	5.3	97.7	96.3	6.7	6.0	5.3	5.3	5.8	
BAR FRC 123	5.3	96.3	93.3	6.7	5.7	4.7	5.7	5.7	
PVF-MVP-2020	4.7	99.0	95.0	6.0	5.3	5.3	5.3	5.5	
SHADOW IV (PST-4SHAD)	5.0	96.3	95.0	6.0	5.7	5.3	5.0	5.5	
RAD-FC59	4.7	96.3	93.3	6.0	5.7	4.7	5.3	5.4	
PST-4SWTM	4.3	93.3	83.3	5.7	5.3	4.3	4.0	4.8	
LSD VALUE	1.2	5.2	5.0	1.1	1.8	1.1	1.2	0.7	
C.V. (%)	9.8	2.3	3.1	8.5	10.9	10.3	10.9	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 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS GROWN UNDER TRAFFIC STRESS AT EAST LANSING, MI 1/ 2023 DATA

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

NAME	SUMMER DENSITY	PERCENT GROUND COVER		QUALITY RATINGS				MEAN
		SUMMER	FALL	JUL	AUG	SEP	OCT	
NAVIGATOR III (PPG-FRR 127)	5.3	96.3	96.0	5.7	6.0	5.7	5.7	5.8
MESO (STB1)	6.0	95.0	83.3	6.7	6.0	4.3	5.0	5.5
HARBOR MR (PPG-FRR 132)	5.7	96.3	86.7	6.7	6.3	4.3	4.3	5.4
PVF-HSY+	4.7	93.3	90.0	6.3	5.3	5.0	5.0	5.4
BYE	5.3	95.0	90.0	5.3	5.7	5.3	4.7	5.3
PPG-FRR-134	5.0	93.3	76.7	6.0	5.7	4.3	4.3	5.1
5Z2	4.3	95.0	73.3	5.7	5.3	3.7	4.0	4.7
HYPE (5Z5)	4.7	90.0	80.0	5.3	4.7	4.0	3.7	4.4
FOXFIRE 2	4.0	86.7	66.7	5.0	4.3	3.7	3.0	4.0
CARDINAL II	4.7	91.7	60.0	5.3	4.7	2.7	3.0	3.9
RAD-FR64	4.0	86.7	73.3	4.7	4.0	3.0	3.7	3.8
KEVIN	4.0	91.7	70.0	4.7	4.0	2.7	3.0	3.6
DLF-FRR-3128	3.3	83.3	63.3	4.7	3.7	2.3	3.0	3.4
BOREAL	3.3	83.3	63.3	4.0	3.3	3.0	2.7	3.3
LSD VALUE	0.9	9.1	16.1	1.0	0.7	1.0	0.8	0.5
C.V. (%)	11.5	5.1	12.1	10.6	9.5	16.5	12.3	6.9

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

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

TABLE 6D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS GROWN UNDER TRAFFIC STRESS AT EAST LANSING, MI 1/ 2023 DATA

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

NAME	SUMMER DENSITY	PERCENT GROUND COVER		QUALITY RATINGS				MEAN
		SUMMER	FALL	JUL	AUG	SEP	OCT	
TENACIOUS (NAI-HTB2)	5.3	96.3	93.0	5.3	5.0	5.3	5.3	5.3
DA5-RHF	4.3	91.7	91.7	5.0	4.7	4.3	5.0	4.8
PVF-PDB-2020	5.0	94.7	91.7	4.7	5.0	4.7	4.7	4.8
DLFPS-FL-3104	4.7	96.3	85.0	5.0	5.0	4.3	4.3	4.7
SWORD II (NAI-HAQ1+2)	5.0	93.3	90.0	5.0	4.7	4.7	4.3	4.7
GLADIATOR	4.7	91.7	86.7	4.7	4.3	4.0	4.0	4.3
RESOLUTE	4.7	93.0	88.3	4.3	4.3	4.0	4.3	4.3
SPHD-20	4.7	93.3	80.0	4.3	4.7	3.7	4.0	4.2
BEACON II (PPG-FL 128)	4.3	93.3	83.3	4.3	3.7	3.7	4.0	3.9
BAR FT 135	4.0	91.7	73.3	4.3	4.0	3.3	3.7	3.8
BAR FT 132	3.7	85.0	73.3	4.3	3.3	3.3	3.3	3.6
LSD VALUE	2.1	7.4	24.9	1.1	1.6	2.1	1.9	1.1
C.V. (%)	17.6	3.8	12.1	10.6	16.3	21.2	19.2	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 6E. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT EAST LANSING, MI 1/
2023 DATA

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

NAME	SUMMER DENSITY	PERCENT GROUND COVER SUMMER	COVER FALL	JUL	QUALITY RATINGS			MEAN
					AUG	SEP	OCT	
BLUE HORNET (PPG-FO-102)	4.3	93.3	91.7	4.0	4.0	4.3	4.7	4.3
BAR FO 131	3.3	90.0	73.3	4.0	3.7	3.7	3.7	3.8
QUATRO	4.3	85.0	75.0	3.7	3.7	3.3	3.7	3.6
LSD VALUE	1.3	9.1	37.0	1.5	2.4	1.2	2.3	1.7
C.V. (%)	14.4	4.4	19.9	17.1	27.9	14.0	25.0	18.4

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

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

TABLE 6F. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT EAST LANSING, MI 1/
2023 DATA

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

NAME	SUMMER DENSITY	PERCENT GROUND COVER SUMMER	COVER FALL	JUL	QUALITY RATINGS			MEAN
					AUG	SEP	OCT	
BAR FRL 122	5.3	97.7	91.7	6.7	6.3	5.0	4.7	5.7
SEABREEZE GT	4.7	94.7	76.7	5.0	4.7	3.7	4.0	4.3
LSD VALUE	1.3	9.1	37.0	1.5	2.4	1.2	2.3	1.7
C.V. (%)	8.2	1.9	11.1	7.0	7.4	9.4	9.4	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 7A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS GROWN
UNDER SALINE IRRIGATION AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT SUMMER	GROUND COVER FALL	JUN	QUALITY JUL	RATINGS AUG	SEP	MEAN
CARDINAL II	6.0	2.3	1.7	8.0	7.0	36.0	94.7	2.3	4.3	4.7	5.3	4.2
RAD-FR64	6.7	2.0	1.3	7.0	7.0	28.7	88.0	2.3	4.3	5.0	5.0	4.2
PPG-FRR-134	6.7	2.3	2.0	7.3	7.3	24.0	94.0	1.7	4.0	5.3	5.3	4.1
PVF-HSY+	7.0	2.0	2.7	8.0	7.0	21.3	92.0	1.3	4.3	5.0	5.7	4.1
HYPE (5Z5)	7.0	2.3	2.3	7.7	7.7	31.7	96.0	1.7	4.3	5.3	4.7	4.0
HARBOR MR (PPG-FRR 132)	7.7	2.3	1.3	8.3	6.7	22.3	78.7	1.7	3.7	5.3	4.3	3.8
PPG-FRC-130	6.0	3.7	1.7	7.7	7.7	51.3	70.3	2.7	4.0	4.3	4.0	3.8
FOXFIRE 2	6.7	2.3	2.3	8.0	7.0	22.0	86.0	1.7	4.3	4.0	4.7	3.7
NAVIGATOR III (PPG-FRR 127)	6.7	2.3	1.7	7.3	7.0	27.0	88.3	2.0	3.3	4.0	5.0	3.6
DLF-FRR-3128	7.0	2.7	1.0	7.7	6.7	18.0	89.3	2.0	3.3	4.0	4.7	3.5
MESO (STB1)	6.3	2.3	2.0	7.7	7.3	30.0	93.3	1.7	4.7	4.3	3.3	3.5
RADAR II (PPG-FRC 127)	7.0	3.3	1.7	7.7	7.0	38.7	75.7	2.0	3.0	4.0	5.0	3.5
RESONANCE (NAI-CHU1)	6.3	3.0	1.0	8.0	7.3	39.3	80.7	2.0	4.0	3.7	4.3	3.5
PVF-PDB-2020	6.0	2.3	1.7	8.0	7.7	31.0	68.3	2.3	3.0	2.7	5.7	3.4
BAR FRC 130	6.7	2.7	1.0	7.7	7.0	22.7	70.7	2.0	3.3	3.3	4.7	3.3
BYE	7.7	2.0	2.0	8.0	7.3	18.0	93.0	1.7	3.3	4.0	4.3	3.3
DLFPS-FRC-3105	5.3	3.0	1.7	7.3	7.0	25.3	78.3	2.0	3.3	3.3	4.7	3.3
BAR FO 131	7.0	2.7	1.3	7.3	6.7	5.7	77.3	1.3	3.0	3.3	5.0	3.2
PVF-MVP-2020	7.0	2.7	2.0	7.7	7.0	26.0	76.0	1.7	3.3	3.3	4.3	3.2
TENACIOUS (NAI-HTB2)	6.3	2.3	1.3	8.0	7.3	30.7	71.3	2.0	3.3	3.3	4.0	3.2
BEACON II (PPG-FL 128)	6.7	2.0	1.3	7.0	7.0	27.7	51.7	2.0	3.0	2.7	4.7	3.1
KEVIN	7.3	2.0	1.3	8.0	6.3	15.3	84.7	1.3	3.3	4.3	3.3	3.1
SHADOW IV (PST-4SHAD)	6.3	3.0	1.7	8.0	7.0	16.7	75.3	1.7	3.3	2.7	4.7	3.1
BRITTANY 2	6.7	3.0	1.3	7.7	7.0	21.7	62.0	1.3	3.3	3.3	4.0	3.0
BLUE HORNET (PPG-FO-102)	5.7	2.0	1.0	8.0	6.7	25.3	64.7	2.0	3.0	2.7	4.0	2.9
BOREAL	5.3	3.0	1.0	7.0	5.7	26.7	76.0	2.3	3.3	2.7	3.3	2.9
PST-4SWTM	5.7	3.0	1.0	8.0	7.0	18.3	71.0	1.7	3.0	2.7	4.3	2.9
COMPASS II	6.3	3.3	1.0	8.0	7.3	15.0	66.7	1.7	3.3	3.0	3.0	2.8
DA5-RHF	6.3	2.3	1.7	7.0	7.3	15.0	69.7	1.3	3.0	2.3	4.3	2.8
SEABREEZE GT	5.3	2.7	1.7	6.7	6.7	12.0	77.0	1.7	2.7	3.3	3.3	2.8
SPHD-20	6.3	2.0	1.3	8.5	6.7	18.3	68.3	2.0	2.7	2.3	3.7	2.7
BAR FRC 123	6.3	2.7	1.7	8.3	7.0	13.3	61.7	1.3	2.3	2.7	4.0	2.6
DLFPS-FL-3104	7.0	2.3	1.3	7.7	7.3	19.3	69.3	1.7	2.7	3.0	3.0	2.6
JAMESTOWN VII	7.0	2.7	1.0	7.0	6.7	18.7	55.0	1.7	2.3	2.7	3.7	2.6
5Z2	6.0	2.7	1.7	7.0	6.7	11.3	68.0	1.7	3.0	2.7	1.7	2.3
BAR FRL 122	6.3	2.7	1.3	7.3	7.3	15.0	63.3	1.3	2.7	2.3	3.0	2.3
RAD-FC59	6.7	2.0	1.0	8.0	6.7	18.3	57.7	1.7	2.0	2.7	2.7	2.3
SWORD II (NAI-HAQ1+2)	6.7	2.0	1.3	7.5	7.3	12.3	38.3	1.3	2.0	2.0	3.7	2.3
BAR FT 135	6.7	2.3	1.3	8.0	6.7	0.0	43.3	1.0	1.7	2.3	3.3	2.1
QUATRO	7.3	2.0	1.3	8.3	6.0	9.7	52.7	1.3	2.0	2.0	3.0	2.1
RESOLUTE	7.3	2.0	1.0	7.3	6.3	15.0	46.0	1.3	1.7	2.7	2.3	2.0
GLADIATOR	7.3	2.0	1.0	7.5	6.7	3.7	21.0	1.3	1.7	1.7	3.0	1.9
BAR FT 132	6.7	2.0	1.3	7.0	6.7	5.0	30.0	1.3	1.7	1.3	3.0	1.8
LSD VALUE	2.3	0.9	1.1	2.7	2.3	50.2	39.7	2.2	2.4	2.2	4.1	1.8
C.V. (%)	12.9	18.8	35.2	9.7	9.9	76.9	28.6	36.6	33.9	34.2	34.8	26.7

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 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS GROWN
UNDER SALINE IRRIGATION AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT GROUND SUMMER	COVER FALL	QUALITY RATINGS				MEAN
								JUN	JUL	AUG	SEP	
PPG-FRC-130	6.0	3.7	1.7	7.7	7.7	51.3	70.3	2.7	4.0	4.3	4.0	3.8
RADAR II (PPG-FRC 127)	7.0	3.3	1.7	7.7	7.0	38.7	75.7	2.0	3.0	4.0	5.0	3.5
RESONANCE (NAI-CHU1)	6.3	3.0	1.0	8.0	7.3	39.3	80.7	2.0	4.0	3.7	4.3	3.5
BAR FRC 130	6.7	2.7	1.0	7.7	7.0	22.7	70.7	2.0	3.3	3.3	4.7	3.3
DLFPS-FRC-3105	5.3	3.0	1.7	7.3	7.0	25.3	78.3	2.0	3.3	3.3	4.7	3.3
PVF-MVP-2020	7.0	2.7	2.0	7.7	7.0	26.0	76.0	1.7	3.3	3.3	4.3	3.2
SHADOW IV (PST-4SHAD)	6.3	3.0	1.7	8.0	7.0	16.7	75.3	1.7	3.3	2.7	4.7	3.1
BRITTANY 2	6.7	3.0	1.3	7.7	7.0	21.7	62.0	1.3	3.3	3.3	4.0	3.0
PST-4SWTM	5.7	3.0	1.0	8.0	7.0	18.3	71.0	1.7	3.0	2.7	4.3	2.9
COMPASS II	6.3	3.3	1.0	8.0	7.3	15.0	66.7	1.7	3.3	3.0	3.0	2.8
BAR FRC 123	6.3	2.7	1.7	8.3	7.0	13.3	61.7	1.3	2.3	2.7	4.0	2.6
JAMESTOWN VII	7.0	2.7	1.0	7.0	6.7	18.7	55.0	1.7	2.3	2.7	3.7	2.6
RAD-FC59	6.7	2.0	1.0	8.0	6.7	18.3	57.7	1.7	2.0	2.7	2.7	2.3
LSD VALUE	2.2	1.5	1.1	1.5	1.8	46.0	63.7	1.9	1.7	2.7	3.9	1.8
C.V. (%)	13.0	20.6	35.7	7.3	8.4	71.4	29.3	37.0	24.5	30.3	32.6	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 7C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS GROWN
UNDER SALINE IRRIGATION AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT GROUND SUMMER	COVER FALL	QUALITY RATINGS				MEAN
								JUN	JUL	AUG	SEP	
CARDINAL II	6.0	2.3	1.7	8.0	7.0	36.0	94.7	2.3	4.3	4.7	5.3	4.2
RAD-FR64	6.7	2.0	1.3	7.0	7.0	28.7	88.0	2.3	4.3	5.0	5.0	4.2
PPG-FRR-134	6.7	2.3	2.0	7.3	7.3	24.0	94.0	1.7	4.0	5.3	5.3	4.1
PVF-HSY+	7.0	2.0	2.7	8.0	7.0	21.3	92.0	1.3	4.3	5.0	5.7	4.1
HYPE (5Z5)	7.0	2.3	2.3	7.7	7.7	31.7	96.0	1.7	4.3	5.3	4.7	4.0
HARBOR MR (PPG-FRR 132)	7.7	2.3	1.3	8.3	6.7	22.3	78.7	1.7	3.7	5.3	4.3	3.8
FOXFIRE 2	6.7	2.3	2.3	8.0	7.0	22.0	86.0	1.7	4.3	4.0	4.7	3.7
NAVIGATOR III (PPG-FRR 127)	6.7	2.3	1.7	7.3	7.0	27.0	88.3	2.0	3.3	4.0	5.0	3.6
DLF-FRR-3128	7.0	2.7	1.0	7.7	6.7	18.0	89.3	2.0	3.3	4.0	4.7	3.5
MESO (STB1)	6.3	2.3	2.0	7.7	7.3	30.0	93.3	1.7	4.7	4.3	3.3	3.5
BYE	7.7	2.0	2.0	8.0	7.3	18.0	93.0	1.7	3.3	4.0	4.3	3.3
KEVIN	7.3	2.0	1.3	8.0	6.3	15.3	84.7	1.3	3.3	4.3	3.3	3.1
BOREAL	5.3	3.0	1.0	7.0	5.7	26.7	76.0	2.3	3.3	2.7	3.3	2.9
5Z2	6.0	2.7	1.7	7.0	6.7	11.3	68.0	1.7	3.0	2.7	1.7	2.3
LSD VALUE	1.7	1.2	1.1	2.1	2.0	38.9	41.2	1.5	3.1	3.2	2.9	1.8
C.V. (%)	11.7	19.5	31.2	9.7	11.1	55.9	16.8	30.8	27.6	29.8	30.3	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 7D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS GROWN
UNDER SALINE IRRIGATION AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT GROUND SUMMER	COVER FALL	QUALITY RATINGS				MEAN
								JUN	JUL	AUG	SEP	
PVF-PDB-2020	6.0	2.3	1.7	8.0	7.7	31.0	68.3	2.3	3.0	2.7	5.7	3.4
TENACIOUS (NAI-HTB2)	6.3	2.3	1.3	8.0	7.3	30.7	71.3	2.0	3.3	3.3	4.0	3.2
BEACON II (PPG-FL 128)	6.7	2.0	1.3	7.0	7.0	27.7	51.7	2.0	3.0	2.7	4.7	3.1
DA5-RHF	6.3	2.3	1.7	7.0	7.3	15.0	69.7	1.3	3.0	2.3	4.3	2.8
SPHD-20	6.3	2.0	1.3	8.5	6.7	18.3	68.3	2.0	2.7	2.3	3.7	2.7
DLFPS-FL-3104	7.0	2.3	1.3	7.7	7.3	19.3	69.3	1.7	2.7	3.0	3.0	2.6
SWORD II (NAI-HAQ1+2)	6.7	2.0	1.3	7.5	7.3	12.3	38.3	1.3	2.0	2.0	3.7	2.3
BAR FT 135	6.7	2.3	1.3	8.0	6.7	0.0	43.3	1.0	1.7	2.3	3.3	2.1
RESOLUTE	7.3	2.0	1.0	7.3	6.3	15.0	46.0	1.3	1.7	2.7	2.3	2.0
GLADIATOR	7.3	2.0	1.0	7.5	6.7	3.7	21.0	1.3	1.7	1.7	3.0	1.9
BAR FT 132	6.7	2.0	1.3	7.0	6.7	5.0	30.0	1.3	1.7	1.3	3.0	1.8
LSD VALUE	2.9	1.0	1.5	3.2	2.1	45.3	46.1	1.6	2.3	2.7	2.1	1.8
C.V. (%)	15.0	16.6	37.6	13.4	11.3	109.1	40.9	40.0	40.1	42.3	27.3	29.9

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 7E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS GROWN
UNDER SALINE IRRIGATION AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT GROUND SUMMER	COVER FALL	QUALITY RATINGS				MEAN
								JUN	JUL	AUG	SEP	
BAR FO 131	7.0	2.7	1.3	7.3	6.7	5.7	77.3	1.3	3.0	3.3	5.0	3.2
BLUE HORNET (PPG-FO-102)	5.7	2.0	1.0	8.0	6.7	25.3	64.7	2.0	3.0	2.7	4.0	2.9
QUATRO	7.3	2.0	1.3	8.3	6.0	9.7	52.7	1.3	2.0	2.0	3.0	2.1
LSD VALUE	1.9	0.8	1.2	2.0	1.2	22.6	56.9	1.5	3.5	1.9	5.4	2.7
C.V. (%)	12.2	15.0	43.1	11.2	8.2	71.8	37.7	42.9	57.3	30.6	58.6	42.0

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 7F.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS GROWN
UNDER SALINE IRRIGATION AT FORT COLLINS, CO 1/

2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT GROUND SUMMER	COVER FALL	JUN	JUL	AUG	SEP	MEAN
SEABREEZE GT	5.3	2.7	1.7	6.7	6.7	12.0	77.0	1.7	2.7	3.3	3.3	2.8
BAR FRL 122	6.3	2.7	1.3	7.3	7.3	15.0	63.3	1.3	2.7	2.3	3.0	2.3
LSD VALUE	1.9	0.8	1.2	2.0	1.2	22.6	56.9	1.5	3.5	1.9	5.4	2.7
C.V. (%)	12.1	0.0	27.2	11.7	5.8	46.6	21.5	27.2	26.5	25.0	25.8	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 8A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER SHADE AT NEWARK, DE 1/
2023 DATA

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

NAME	GENETIC COLOR	SUMMER PATCH	MAR	APR	MAY	JUN	QUALITY RATINGS						MEAN
							JUL	AUG	SEP	OCT	NOV	DEC	
DLFPS-FL-3104	7.0	6.3	6.3	7.0	7.0	7.0	6.7	5.7	5.3	5.7	5.7	6.7	6.3
PPG-FRC-130	6.3	6.3	5.7	6.3	6.0	6.3	5.7	6.3	5.7	6.7	6.0	6.0	6.1
BAR FT 135	7.0	6.0	6.0	5.7	6.0	6.0	6.0	5.7	5.3	5.7	6.3	7.0	6.0
BEACON II (PPG-FL 128)	5.7	5.0	6.0	6.0	6.3	7.0	5.7	6.0	5.3	5.3	6.0	6.7	6.0
SPHD-20	7.0	6.3	6.0	6.7	6.7	6.0	6.3	5.3	5.3	5.0	5.7	6.0	5.9
DLFPS-FRC-3105	6.0	6.0	5.7	5.3	6.0	6.3	5.7	6.0	5.3	5.3	6.0	6.0	5.8
FOXFIRE 2	6.3	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.7	6.0	6.0	6.3	5.8
MESO (STB1)	6.0	5.7	5.7	5.3	5.3	5.7	5.7	6.3	5.7	6.3	6.0	6.0	5.8
PVF-MVP-2020	6.0	5.3	6.0	6.0	6.0	6.0	5.3	5.7	5.3	5.7	6.0	6.3	5.8
SEABREEZE GT	6.0	6.3	5.7	6.0	6.3	5.3	5.3	5.3	5.3	5.3	5.7	5.3	5.6
SWORD II (NAI-HAQ1+2)	6.7	5.7	5.7	6.0	6.0	5.7	6.0	5.3	5.0	4.7	5.3	5.3	5.5
BAR FO 131	5.7	5.7	5.7	6.0	6.0	5.3	5.3	5.3	4.3	5.0	5.3	5.7	5.4
BRITTANY 2	6.3	6.3	6.0	6.0	5.7	6.0	5.3	4.7	4.7	5.3	5.0	5.0	5.4
GLADIATOR	7.0	6.0	5.7	5.3	5.7	5.3	5.7	5.3	5.0	5.0	5.3	5.3	5.4
HARBOR MR (PPG-FRR 132)	6.0	5.0	5.7	6.3	6.0	5.7	5.3	5.3	4.7	4.3	4.7	6.0	5.4
BAR FRC 123	6.0	6.0	5.7	5.7	5.7	5.3	5.3	5.3	4.7	4.7	4.7	4.7	5.2
DLF-FRR-3128	6.3	6.0	5.0	4.7	5.0	5.0	5.0	5.7	4.7	5.3	5.7	6.0	5.2
KEVIN	7.0	5.7	5.3	5.7	5.3	5.0	5.3	5.3	5.0	5.7	5.0	4.7	5.2
RADAR II (PPG-FRC 127)	6.3	6.7	4.3	5.3	5.3	5.3	5.3	5.3	5.0	5.3	5.7	5.3	5.2
TENACIOUS (NAI-HTB2)	7.7	4.7	5.0	5.0	5.3	6.3	5.7	4.7	4.7	4.7	5.3	5.3	5.2
5Z2	6.3	6.3	5.0	6.0	5.7	5.0	4.7	5.0	4.7	5.0	5.0	5.3	5.1
BAR FRL 122	6.0	5.3	5.3	5.7	5.7	5.7	5.0	4.0	4.0	4.0	5.0	6.0	5.0
PPG-FRR-134	6.0	6.0	4.7	4.7	5.3	5.3	5.0	4.7	4.7	4.7	5.0	5.7	5.0
RESOLUTE	7.3	5.0	4.3	4.0	5.0	5.3	5.3	4.7	4.7	5.0	5.3	6.0	5.0
RESONANCE (NAI-CHU1)	6.0	5.7	4.7	4.7	4.7	4.7	5.0	5.0	5.0	5.0	5.3	4.7	4.9
SHADOW IV (PST-4SHAD)	6.0	4.7	5.0	5.3	5.7	5.3	5.0	4.7	4.7	4.0	4.7	4.7	4.9
HYPE (5Z5)	6.0	6.0	4.7	4.3	5.0	5.3	5.0	4.7	4.3	5.0	5.0	5.0	4.8
JAMESTOWN VII	6.3	6.0	4.7	4.7	5.0	4.7	5.0	5.0	4.0	4.3	5.3	5.3	4.8
PST-4SWTM	6.0	5.3	5.7	5.7	5.0	5.3	4.7	4.0	4.3	4.3	4.3	4.3	4.8
RAD-FR64	6.7	6.0	5.0	5.3	5.7	5.0	4.0	4.0	4.3	4.3	5.0	5.3	4.8
BYE	6.0	6.0	5.0	4.3	5.0	4.7	5.0	4.3	4.3	4.7	5.0	5.0	4.7
PVF-HSY+	6.0	6.0	5.0	5.7	5.0	4.7	5.0	3.7	4.3	4.7	4.3	4.3	4.7
COMPASS II	6.3	6.0	4.3	4.7	5.0	5.0	4.7	4.3	4.3	4.7	4.7	4.3	4.6
NAVIGATOR III (PPG-FRR 127)	6.3	5.3	5.0	5.3	5.3	4.3	4.3	4.0	4.0	3.7	4.7	5.0	4.6
PVF-PDB-2020	7.0	5.0	4.7	5.3	5.0	5.3	5.0	3.7	3.7	4.0	4.7	5.0	4.6
QUATRO	6.3	5.3	4.7	4.3	4.7	4.3	4.3	4.7	4.0	4.3	5.0	5.3	4.6
DA5-RHF	6.7	5.3	4.0	4.3	4.7	5.0	4.7	4.0	4.0	4.3	5.0	5.0	4.5
CARDINAL II	6.7	5.7	4.3	4.7	4.7	5.0	4.0	4.0	3.7	4.3	4.7	5.0	4.4
BLUE HORNET (PPG-FO-102)	5.7	4.7	4.3	4.0	4.7	4.7	4.7	4.0	3.3	3.7	4.0	4.3	4.2
BAR FT 132	5.7	4.3	4.0	3.7	4.0	4.3	4.3	3.3	3.3	3.3	3.7	4.3	3.8
BOREAL	5.3	4.3	3.7	4.0	4.0	4.0	3.7	3.3	3.0	3.3	3.3	3.3	3.6
RAD-FC59	5.0	4.0	4.0	3.7	4.3	4.0	4.0	3.3	3.3	3.3	3.3	2.7	3.6
BAR FRC 130	4.3	4.0	3.7	3.3	3.3	3.7	3.7	3.0	3.0	2.7	3.3	3.7	3.3
LSD VALUE	3.0	5.7	6.9	5.8	4.4	5.1	4.6	5.0	5.5	4.2	5.1	5.0	4.7
C.V. (%)	15.4	24.3	30.2	29.8	23.5	25.5	23.9	30.5	30.4	28.3	26.8	28.4	24.8

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 8B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER SHADE TEST AT NEWARK, DE 1/
2023 DATA

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

NAME	GENETIC COLOR	SUMMER PATCH	QUALITY RATINGS										MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPG-FRC-130	6.3	6.3	5.7	6.3	6.0	6.3	5.7	6.3	5.7	6.7	6.0	6.0	6.1
DLFPS-FRC-3105	6.0	6.0	5.7	5.3	6.0	6.3	5.7	6.0	5.3	5.3	6.0	6.0	5.8
PVF-MVP-2020	6.0	5.3	6.0	6.0	6.0	6.0	5.3	5.7	5.3	5.7	6.0	6.3	5.8
BRITTANY 2	6.3	6.3	6.0	6.0	5.7	6.0	5.3	4.7	4.7	5.3	5.0	5.0	5.4
BAR FRC 123	6.0	6.0	5.7	5.7	5.7	5.3	5.3	5.3	4.7	4.7	4.7	4.7	5.2
RADAR II (PPG-FRC 127)	6.3	6.7	4.3	5.3	5.3	5.3	5.3	4.7	5.0	5.3	5.7	5.3	5.2
RESONANCE (NAI-CHU1)	6.0	5.7	4.7	4.7	4.7	4.7	5.0	5.0	5.0	5.0	5.3	4.7	4.9
SHADOW IV (PST-4SHAD)	6.0	4.7	5.0	5.3	5.7	5.3	5.0	4.7	4.7	4.0	4.7	4.7	4.9
JAMESTOWN VII	6.3	6.0	4.7	4.7	5.0	4.7	5.0	5.0	4.0	4.3	5.3	5.3	4.8
PST-4SWTM	6.0	5.3	5.7	5.7	5.0	5.3	4.7	4.0	4.3	4.3	4.3	4.3	4.8
COMPASS II	6.3	6.0	4.3	4.7	5.0	5.0	4.7	4.3	4.3	4.7	4.7	4.3	4.6
RAD-FC59	5.0	4.0	4.0	3.7	4.3	4.0	4.0	3.3	3.3	3.3	3.3	2.7	3.6
BAR FRC 130	4.3	4.0	3.7	3.3	3.3	3.7	3.7	3.0	3.0	2.7	3.3	3.7	3.3
LSD VALUE	4.0	3.7	4.6	4.5	4.1	4.6	4.1	3.7	3.7	2.9	4.0	4.0	3.7
C.V. (%)	22.2	25.5	31.4	31.6	27.7	31.0	26.9	31.0	29.6	27.7	30.5	32.2	27.5

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 AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS GROWN UNDER SHADE AT NEWARK, DE 1/ 2023 DATA

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

NAME	GENETIC COLOR	SUMMER PATCH	QUALITY RATINGS										MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
FOXFIRE 2	6.3	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.7	6.0	6.0	6.3	5.8
MESO (STB1)	6.0	5.7	5.7	5.3	5.3	5.7	5.7	6.3	5.7	6.3	6.0	6.0	5.8
HARBOR MR (PPG-FRR 132)	6.0	5.0	5.7	6.3	6.0	5.7	5.3	5.3	4.7	4.3	4.7	6.0	5.4
DLF-FRR-3128	6.3	6.0	5.0	4.7	5.0	5.0	5.0	5.7	4.7	5.3	5.7	6.0	5.2
KEVIN	7.0	5.7	5.3	5.7	5.3	5.0	5.3	5.3	5.0	5.7	5.0	4.7	5.2
5Z2	6.3	6.3	5.0	6.0	5.7	5.0	4.7	5.0	4.7	5.0	5.0	5.3	5.1
PPG-FRR-134	6.0	6.0	4.7	4.7	5.3	5.3	5.0	4.7	4.7	5.0	5.7	5.0	5.0
HYPE (5Z5)	6.0	6.0	4.7	4.3	5.0	5.3	5.0	4.7	4.3	5.0	5.0	5.0	4.8
RAD-FR64	6.7	6.0	5.0	5.3	5.7	5.0	4.0	4.0	4.3	4.3	5.0	5.3	4.8
BYE	6.0	6.0	5.0	4.3	5.0	4.7	5.0	4.3	4.3	4.7	5.0	5.0	4.7
PVF-HSY+	6.0	6.0	5.0	5.7	5.0	4.7	5.0	3.7	4.3	4.7	4.3	4.3	4.7
NAVIGATOR III (PPG-FRR 127)	6.3	5.3	5.0	5.3	5.3	4.3	4.3	4.0	4.0	3.7	4.7	5.0	4.6
CARDINAL II	6.7	5.7	4.3	4.7	4.7	5.0	4.0	4.0	3.7	4.3	4.7	5.0	4.4
BOREAL	5.3	4.3	3.7	4.0	4.0	4.0	3.7	3.3	3.0	3.3	3.3	3.3	3.6
LSD VALUE	1.4	4.1	3.9	3.8	3.5	2.9	2.8	3.4	3.9	3.2	2.9	3.1	2.9
C.V. (%)	9.4	22.2	25.2	25.8	21.7	19.4	21.4	28.4	29.8	26.1	22.1	23.4	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 8D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS GROWN UNDER SHADE AT NEWARK, DE 1/ 2023 DATA

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

NAME	GENETIC COLOR	SUMMER PATCH	QUALITY RATINGS										MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
DLFPS-FL-3104	7.0	6.3	6.3	7.0	7.0	7.0	6.7	5.7	5.3	5.7	5.7	6.7	6.3
BAR FT 135	7.0	6.0	6.0	5.7	6.0	6.0	6.0	5.7	5.3	5.7	6.3	7.0	6.0
BEACON II (PPG-FL 128)	5.7	5.0	6.0	6.0	6.3	7.0	5.7	6.0	5.3	5.3	6.0	6.7	6.0
SPHD-20	7.0	6.3	6.0	6.7	6.7	6.0	6.3	5.3	5.3	5.0	5.7	6.0	5.9
SWORD II (NAI-HAQ1+2)	6.7	5.7	5.7	6.0	6.0	5.7	6.0	5.3	5.0	4.7	5.3	5.3	5.5
GLADIATOR	7.0	6.0	5.7	5.3	5.7	5.3	5.7	5.3	5.0	5.0	5.3	5.3	5.4
TENACIOUS (NAI-HTB2)	7.7	4.7	5.0	5.0	5.3	6.3	5.7	4.7	4.7	4.7	5.3	5.3	5.2
RESOLUTE	7.3	5.0	4.3	4.0	5.0	5.3	5.3	4.7	4.7	5.0	5.3	6.0	5.0
PVF-PDB-2020	7.0	5.0	4.7	5.3	5.0	5.3	5.0	3.7	3.7	4.0	4.7	5.0	4.6
DA5-RHF	6.7	5.3	4.0	4.3	4.7	5.0	4.7	4.0	4.0	4.3	5.0	5.0	4.5
BAR FT 132	5.7	4.3	4.0	3.7	4.0	4.3	4.3	3.3	3.3	3.3	3.7	4.3	3.8
LSD VALUE	2.2	3.7	3.6	3.7	2.0	3.6	2.5	3.3	3.6	3.5	3.5	4.2	2.8
C.V. (%)	13.5	24.5	26.9	28.6	17.6	24.0	18.4	27.3	28.6	27.0	24.4	27.4	21.7

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

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

TABLE 8E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS
GROWN UNDER SHADE AT NEWARK, DE 1/
2023 DATA

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

NAME	GENETIC COLOR	SUMMER PATCH	QUALITY RATINGS										MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BAR FO 131	5.7	5.7	5.7	6.0	6.0	5.3	5.3	5.3	4.3	5.0	5.3	5.7	5.4
QUATRO	6.3	5.3	4.7	4.3	4.7	4.3	4.3	4.7	4.0	4.3	5.0	5.3	4.6
BLUE HORNET (PPG-FO-102)	5.7	4.7	4.3	4.0	4.7	4.7	4.7	4.7	3.3	3.7	4.0	4.3	4.2
LSD VALUE	0.8	1.8	5.9	5.0	4.3	3.8	4.7	4.1	2.9	4.1	4.7	4.5	4.2
C.V. (%)	5.7	15.0	51.9	44.9	36.3	33.8	42.4	38.1	32.6	41.1	42.4	38.0	38.8

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 8F.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT NEWARK, DE 1/
2023 DATA

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

NAME	GENETIC COLOR	SUMMER PATCH	QUALITY RATINGS										MEAN
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SEABREEZE GT	6.0	6.3	5.7	6.0	6.3	5.3	5.3	5.3	5.3	5.3	5.7	5.3	5.6
BAR FRL 122	6.0	5.3	5.3	5.7	5.7	5.7	5.0	4.0	4.0	4.0	5.0	6.0	5.0
LSD VALUE	0.8	1.8	5.9	5.0	4.3	3.8	4.7	4.1	2.9	4.1	4.7	4.5	4.2
C.V. (%)	0.0	12.1	19.6	30.5	13.6	19.6	7.9	23.1	23.1	23.1	20.3	14.4	17.8

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

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

TABLE 9A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	APR	MAY	JUN	QUALITY JUL	RATINGS AUG	SEP	OCT	NOV	MEAN
RADAR II (PPG-FRC 127)	5.0	5.7	8.7	8.0	8.7	6.3	6.0	6.0	6.0	6.0	6.0	6.7	7.0	6.3
BAR FRC 123	4.7	6.3	8.7	8.0	7.7	5.3	6.3	6.3	6.7	6.0	6.0	6.3	6.7	6.2
COMPASS II	4.0	7.3	9.0	8.7	7.7	6.3	6.0	5.7	6.7	6.0	6.0	6.0	7.0	6.2
MESO (STB1)	5.3	5.7	8.7	6.7	7.3	6.0	6.3	5.7	6.7	5.7	6.0	6.0	7.0	6.2
PPG-FRR-134	6.3	5.7	8.3	7.0	7.7	6.0	6.7	5.7	6.0	6.0	6.0	6.0	7.0	6.2
RAD-FC59	5.7	6.7	9.0	7.3	8.3	6.0	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.2
RESONANCE (NAI-CHU1)	4.3	6.7	9.0	8.7	9.0	5.7	6.7	6.0	6.3	6.0	6.0	6.3	6.7	6.2
BYE	5.3	5.0	8.0	6.3	5.3	5.7	6.3	6.0	6.0	5.7	6.0	5.7	7.0	6.1
DLF-FRR-3128	6.3	5.0	8.3	6.0	6.7	5.7	6.7	5.3	6.3	6.0	6.0	6.0	7.0	6.1
HYPE (5Z5)	6.0	4.7	8.3	5.7	6.7	6.0	6.0	6.0	6.3	6.0	5.7	5.7	7.0	6.1
JAMESTOWN VII	5.3	7.0	8.7	7.0	7.3	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.7	6.1
PVF-HSY+	4.3	6.0	8.3	6.7	6.7	5.7	5.7	6.0	6.7	6.0	6.0	6.3	6.3	6.1
PVF-MVP-2020	5.0	5.3	8.7	9.0	8.0	5.3	6.0	5.7	6.3	6.0	6.0	6.3	7.0	6.1
RESOLUTE	5.7	6.3	8.0	8.3	6.3	6.0	6.7	6.0	6.0	6.0	6.0	6.0	6.3	6.1
5Z2	7.3	4.7	6.0	5.0	6.7	5.7	6.0	5.7	6.0	6.0	6.0	6.0	6.7	6.0
BAR FRC 130	4.3	5.0	8.3	8.7	7.0	5.3	6.0	6.0	5.7	6.0	6.0	6.0	6.7	6.0
BAR FRL 122	5.0	6.7	8.3	8.7	8.0	5.7	5.7	5.7	6.3	6.0	6.0	6.3	6.7	6.0
BLUE HORNET (PPG-FO-102)	5.3	7.0	8.0	7.0	5.0	6.0	6.0	5.3	6.0	6.0	6.0	5.7	7.0	6.0
BRITTANY 2	4.7	4.7	8.7	8.0	7.3	5.7	6.3	6.0	6.0	5.7	6.0	6.0	6.7	6.0
CARDINAL II	5.7	5.0	6.3	6.3	6.7	5.7	6.0	5.3	6.0	6.0	6.0	5.7	7.0	6.0
DLFPS-FL-3104	6.3	6.3	8.3	7.7	5.3	5.7	6.7	5.0	6.0	6.0	6.0	6.0	6.3	6.0
DLFPS-FRC-3105	5.7	5.3	8.7	8.7	6.7	5.3	6.7	5.3	6.0	5.7	6.0	6.3	6.3	6.0
PPG-FRC-130	5.0	4.0	9.0	8.7	8.3	5.3	6.3	5.7	5.7	6.0	6.0	6.0	7.0	6.0
PST-4SWTM	7.0	4.3	7.7	8.0	7.7	5.0	6.7	5.7	6.0	6.0	6.0	6.0	7.0	6.0
SEABREEZE GT	6.3	6.0	7.7	7.0	7.3	5.7	6.3	5.7	6.0	6.0	6.0	6.0	6.7	6.0
SHADOW IV (PST-4SHAD)	4.0	5.0	8.7	8.0	6.0	5.3	6.0	5.7	6.3	6.0	6.0	6.0	6.3	6.0
SPHD-20	5.3	5.0	8.7	6.7	6.0	6.0	6.7	5.3	6.0	6.0	6.0	5.7	6.7	6.0
SWORD II (NAI-HAQ1+2)	5.0	6.7	8.3	7.3	7.7	6.0	6.0	5.0	6.3	6.0	6.0	6.0	6.7	6.0
BEACON II (PPG-FL 128)	6.0	4.7	8.7	6.3	5.0	5.3	6.0	6.3	6.0	5.7	5.7	5.7	6.3	5.9
BOREAL	5.3	5.3	7.7	5.0	4.7	5.7	6.3	5.7	6.0	5.7	6.0	5.3	6.7	5.9
FOXFIRE 2	7.3	5.7	6.3	5.7	5.3	5.7	6.0	5.0	6.3	6.0	5.7	6.3	6.3	5.9
NAVIGATOR III (PPG-FRR 127)	7.3	4.3	7.3	5.7	7.0	5.3	6.0	5.3	6.0	5.7	6.0	6.0	6.7	5.9
PVF-PDB-2020	7.0	4.7	8.3	5.7	5.7	5.0	6.7	5.3	6.0	6.0	6.0	5.7	6.3	5.9
RAD-FR64	6.0	5.7	7.0	4.7	5.3	5.7	6.0	5.3	5.7	6.0	6.0	6.0	6.7	5.9
TENACIOUS (NAI-HTB2)	5.7	4.7	8.7	8.3	7.3	5.7	6.7	5.3	5.7	6.0	5.7	6.0	6.3	5.9
DA5-RHF	6.3	4.3	7.7	6.7	6.0	5.0	6.3	5.7	5.7	5.7	6.0	5.7	6.3	5.8
GLADIATOR	4.3	5.7	7.3	8.0	5.0	5.3	6.0	5.7	6.7	6.0	5.7	5.7	5.7	5.8
HARBOR MR (PPG-FRR 132)	5.3	4.7	7.3	6.3	6.7	4.7	5.7	5.3	5.7	6.0	6.0	6.0	7.0	5.8
QUATRO	5.7	6.0	7.3	7.0	4.7	5.7	6.0	5.7	5.7	5.7	6.0	6.0	6.0	5.8
BAR FO 131	3.7	6.0	6.0	5.3	5.0	5.3	5.3	5.7	6.0	5.7	5.7	6.0	5.7	5.7
KEVIN	5.7	4.0	6.0	4.3	6.3	5.0	5.3	5.0	5.7	6.0	6.0	6.0	6.3	5.7
BAR FT 135	5.3	5.3	8.3	5.7	3.7	5.0	6.0	5.3	6.0	5.3	5.7	6.0	5.3	5.6
BAR FT 132	4.3	5.0	5.0	4.3	4.0	5.3	5.0	5.0	5.7	6.0	6.0	5.7	5.7	5.5
LSD VALUE	4.7	9.1	2.4	2.8	4.6	4.2	2.4	1.4	1.4	1.3	0.9	1.4	1.9	0.6
C.V. (%)	27.3	35.8	14.7	21.3	27.9	15.8	11.2	9.7	7.8	5.4	3.9	7.2	9.9	4.0

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

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

TABLE 9A.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATATURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
PERCENT GROUND COVER RATINGS APRIL-NOVEMBER

NAME	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER
RADAR II (PPG-FRC 127)	71.3	97.3	91.0	94.0	82.7	95.0
BAR FRC 123	75.0	98.3	92.0	84.0	72.3	85.3
COMPASS II	82.0	99.0	97.0	90.0	85.3	86.3
MESO (STB1)	71.3	98.3	81.0	80.0	72.3	78.0
PPG-FRR-134	71.3	96.3	86.0	88.7	84.0	86.7
RAD-FC59	77.7	98.7	88.7	89.0	88.0	92.7
RESONANCE (NAI-CHU1)	77.3	99.0	96.7	98.7	82.3	98.0
BYE	65.3	95.3	79.7	73.3	68.0	60.3
DLF-FRR-3128	66.3	96.0	77.0	87.3	75.0	74.3
HYPE (5Z5)	66.3	97.3	74.3	76.7	67.3	76.7
JAMESTOWN VII	79.0	97.7	85.7	81.0	85.3	81.3
PVF-HSY+	73.0	96.7	83.7	91.0	87.3	72.0
PVF-MVP-2020	65.7	98.3	97.3	91.3	89.7	87.0
RESOLUTE	77.3	94.3	95.0	87.3	84.3	69.0
5Z2	62.3	86.3	71.0	86.3	90.0	71.7
BAR FRC 130	63.3	96.3	97.0	87.7	83.0	74.3
BAR FRL 122	79.3	96.3	96.0	96.3	90.0	89.3
BLUE HORNET (PPG-FO-102)	81.0	95.3	86.7	72.0	75.3	55.7
BRITTANY 2	63.7	97.0	92.7	89.7	65.0	82.0
CARDINAL II	64.0	88.0	79.3	84.7	76.7	71.7
DLFPS-FL-3104	77.0	96.3	88.0	84.3	84.7	61.7
DLFPS-FRC-3105	66.3	98.0	95.0	79.3	78.0	76.0
PPG-FRC-130	55.7	98.7	96.7	90.3	71.0	91.7
PST-4SWTM	59.3	93.7	91.0	82.0	76.3	80.7
SEABREEZE GT	75.0	93.3	85.3	83.7	73.3	84.3
SHADOW IV (PST-4SHAD)	68.7	97.7	92.0	90.7	77.3	67.3
SPHD-20	66.0	97.7	83.7	78.7	68.3	67.0
SWORD II (NAI-HA1+2)	79.0	95.7	87.0	87.0	93.7	84.0
BEACON II (PPG-FL 128)	63.0	97.3	79.7	71.7	72.7	58.0
BOREAL	70.3	93.3	68.3	76.7	76.7	52.0
FOXFIRE 2	70.3	86.7	76.7	76.0	70.3	60.3
NAVIGATOR III (PPG-FRR 127)	60.0	92.3	73.3	77.0	80.0	78.3
PVF-PDB-2020	63.0	96.7	73.7	72.0	71.3	65.3
RAD-FR64	71.7	91.7	65.7	72.3	83.7	58.3
TENACIOUS (NAI-HTB2)	61.0	98.3	91.3	87.0	83.3	83.0
DA5-RHF	59.0	93.3	83.3	80.7	74.0	66.3
GLADIATOR	70.3	92.3	91.7	76.7	68.7	54.0
HARBOR MR (PPG-FRR 132)	61.3	91.7	80.3	82.7	73.0	74.3
QUATRO	74.7	93.0	85.0	79.0	88.0	53.3
BAR FO 131	71.3	86.0	72.0	67.3	58.3	57.0
KEVIN	57.3	86.3	66.7	76.3	68.7	70.3
BAR FT 135	67.3	97.0	72.3	66.0	67.3	38.7
BAR FT 132	64.3	82.0	65.0	70.3	76.0	47.0
LSD VALUE	68.4	11.4	19.3	52.8	63.6	49.6
C.V. (%)	22.0	5.6	12.3	17.3	20.3	27.0

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 9B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	QUALITY RATINGS							MEAN	
						APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
RADAR II (PPG-FRC 127)	5.0	5.7	8.7	8.0	8.7	6.3	6.0	6.0	6.0	6.0	6	6.7	7.0	6.3
BAR FRC 123	4.7	6.3	8.7	8.0	7.7	5.3	6.3	6.3	6.7	6.0	6	6.3	6.7	6.2
COMPASS II	4.0	7.3	9.0	8.7	7.7	6.3	6.0	5.7	6.7	6.0	6	6.0	7.0	6.2
RAD-FC59	5.7	6.7	9.0	7.3	8.3	6.0	6.3	6.0	6.0	6.0	6	6.3	6.7	6.2
RESONANCE (NAI-CHU1)	4.3	6.7	9.0	8.7	9.0	5.7	6.7	6.0	6.3	6.0	6	6.3	6.7	6.2
JAMESTOWN VII	5.3	7.0	8.7	7.0	7.3	6.0	6.0	6.0	6.3	6.0	6	6.0	6.7	6.1
PVF-MVP-2020	5.0	5.3	8.7	9.0	8.0	5.3	6.0	5.7	6.3	6.0	6	6.3	7.0	6.1
BAR FRC 130	4.3	5.0	8.3	8.7	7.0	5.3	6.0	6.0	5.7	6.0	6	6.0	6.7	6.0
BRITTANY 2	4.7	4.7	8.7	8.0	7.3	5.7	6.3	6.0	6.0	5.7	6	6.0	6.7	6.0
DLFPS-FRC-3105	5.7	5.3	8.7	8.7	6.7	5.3	6.7	5.3	6.0	5.7	6	6.3	6.3	6.0
PPG-FRC-130	5.0	4.0	9.0	8.7	8.3	5.3	6.3	5.7	5.7	6.0	6	6.0	7.0	6.0
PST-4SWTM	7.0	4.3	7.7	8.0	7.7	5.0	6.7	5.7	6.0	6.0	6	6.0	7.0	6.0
SHADOW IV (PST-4SHAD)	4.0	5.0	8.7	8.0	6.0	5.3	6.0	5.7	6.3	6.0	6	6.0	6.3	6.0
LSD VALUE	3.6	6.8	1.9	2.6	3.3	2.7	1.1	1.1	1.4	0.6	0	1.2	1.8	0.5
C.V. (%)	27.4	40.3	7.7	12.0	16.9	16.3	6.9	7.0	8.6	3.9	0	6.7	8.5	3.0

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

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

TABLE 9B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

PERCENT GROUND COVER RATINGS APRIL-NOVEMBER

NAME	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER
RADAR II (PPG-FRC 127)	71.3	97.3	91.0	94.0	82.7	95.0
BAR FRC 123	75.0	98.3	92.0	84.0	72.3	85.3
COMPASS II	82.0	99.0	97.0	90.0	85.3	86.3
RAD-FC59	77.7	98.7	88.7	89.0	88.0	92.7
RESONANCE (NAI-CHU1)	77.3	99.0	96.7	98.7	82.3	98.0
JAMESTOWN VII	79.0	97.7	85.7	81.0	85.3	81.3
PVF-MVP-2020	65.7	98.3	97.3	91.3	89.7	87.0
BAR FRC 130	63.3	96.3	97.0	87.7	83.0	74.3
BRITTANY 2	63.7	97.0	92.7	89.7	65.0	82.0
DLFPS-FRC-3105	66.3	98.0	95.0	79.3	78.0	76.0
PPG-FRC-130	55.7	98.7	96.7	90.3	71.0	91.7
PST-4SWTM	59.3	93.7	91.0	82.0	76.3	80.7
SHADOW IV (PST-4SHAD)	68.7	97.7	92.0	90.7	77.3	67.3
LSD VALUE	52.4	7.4	18.6	31.4	38.2	37.3
C.V. (%)	25.2	2.7	7.2	12.3	17.0	16.9

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

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

TABLE 9C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	APR	MAY	JUN	QUALITY RATINGS					MEAN
									JUL	AUG	SEP	OCT	NOV	
MESO (STB1)	5.3	5.7	8.7	6.7	7.3	6.0	6.3	5.7	6.7	5.7	6.0	6.0	7.0	6.2
PPG-FRR-134	6.3	5.7	8.3	7.0	7.7	6.0	6.7	5.7	6.0	6.0	6.0	6.0	7.0	6.2
BYE	5.3	5.0	8.0	6.3	5.3	5.7	6.3	6.7	6.0	5.7	6.0	5.7	7.0	6.1
DLF-FRR-3128	6.3	5.0	8.3	6.0	6.7	5.7	6.7	5.3	6.3	6.0	6.0	6.0	7.0	6.1
HYPE (5Z5)	6.0	4.7	8.3	5.7	6.7	6.0	6.0	6.0	6.3	6.0	5.7	5.7	7.0	6.1
PVF-HSY+	4.3	6.0	8.3	6.7	6.7	5.7	5.7	6.0	6.7	6.0	6.0	6.3	6.3	6.1
5Z2	7.3	4.7	6.0	5.0	6.7	5.7	6.0	5.7	6.0	6.0	6.0	6.0	6.7	6.0
CARDINAL II	5.7	5.0	6.3	6.3	6.7	5.7	6.0	5.3	6.0	6.0	6.0	5.7	7.0	6.0
BOREAL	5.3	5.3	7.7	5.0	4.7	5.7	6.3	5.7	6.0	5.7	6.0	5.3	6.7	5.9
FOXFIRE 2	7.3	5.7	6.3	5.7	5.3	5.7	6.0	5.0	6.3	6.0	5.7	6.3	6.3	5.9
NAVIGATOR III (PPG-FRR 127)	7.3	4.3	7.3	5.7	7.0	5.3	6.0	5.3	6.0	5.7	6.0	6.0	6.7	5.9
RAD-FR64	6.0	5.7	7.0	4.7	5.3	5.7	6.0	5.3	5.7	6.0	6.0	6.0	6.7	5.9
HARBOR MR (PPG-FRR 132)	5.3	4.7	7.3	6.3	6.7	4.7	5.7	5.3	5.7	6.0	6.0	6.0	7.0	5.8
KEVIN	5.7	4.0	6.0	4.3	6.3	5.0	5.3	5.0	5.7	6.0	6.0	6.0	6.3	5.7
LSD VALUE	3.9	6.1	2.0	5.5	5.5	2.5	1.9	1.3	1.1	0.9	0.6	1.2	1.1	0.6
C.V. (%)	24.3	35.3	13.8	30.5	28.7	14.7	11.3	10.3	7.4	5.2	3.5	7.7	6.4	3.8

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

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

TABLE 9C.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

PERCENT GROUND COVER RATINGS APRIL-NOVEMBER

NAME	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER
MESO (STB1)	71.3	98.3	81.0	80.0	72.3	78.0
PPG-FRR-134	71.3	96.3	86.0	88.7	84.0	86.7
BYE	65.3	95.3	79.7	73.3	68.0	60.3
DLF-FRR-3128	66.3	96.0	77.0	87.3	75.0	74.3
HYPE (5Z5)	66.3	97.3	74.3	76.7	67.3	76.7
PVF-HSY+	73.0	96.7	83.7	91.0	87.3	72.0
5Z2	62.3	86.3	71.0	86.3	90.0	71.7
CARDINAL II	64.0	88.0	79.3	84.7	76.7	71.7
BOREAL	70.3	93.3	68.3	76.7	76.7	52.0
FOXFIRE 2	70.3	86.7	76.7	76.0	70.3	60.3
NAVIGATOR III (PPG-FRR 127)	60.0	92.3	73.3	77.0	80.0	78.3
RAD-FR64	71.7	91.7	65.7	72.3	83.7	58.3
HARBOR MR (PPG-FRR 132)	61.3	91.7	80.3	82.7	73.0	74.3
KEVIN	57.3	86.3	66.7	76.3	68.7	70.3
LSD VALUE	47.4	8.8	37.2	41.7	66.4	61.2
C.V. (%)	21.4	4.8	16.6	16.7	26.3	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 9D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	QUALITY RATINGS							MEAN	
						APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
RESOLUTE	5.7	6.3	8.0	8.3	6.3	6.0	6.7	6.0	6.0	6.0	6.0	6.0	6.3	6.1
DLFPS-FL-3104	6.3	6.3	8.3	7.7	5.3	5.7	6.7	5.0	6.0	6.0	6.0	6.0	6.3	6.0
SPHD-20	5.3	5.0	8.7	6.7	6.0	6.0	6.7	5.3	6.0	6.0	6.0	5.7	6.7	6.0
SWORD II (NAI-HAQ1+2)	5.0	6.7	8.3	7.3	7.7	6.0	6.0	5.0	6.3	6.0	6.0	6.0	6.7	6.0
BEACON II (PPG-FL 128)	6.0	4.7	8.7	6.3	5.0	5.3	6.0	6.3	6.0	5.7	5.7	5.7	6.3	5.9
PVF-PDB-2020	7.0	4.7	8.3	5.7	5.7	5.0	6.7	5.3	6.0	6.0	6.0	5.7	6.3	5.9
TENACIOUS (NAI-HTB2)	5.7	4.7	8.7	8.3	7.3	5.7	6.7	5.3	5.7	6.0	5.7	6.0	6.3	5.9
DA5-RHF	6.3	4.3	7.7	6.7	6.0	5.0	6.3	5.7	5.7	5.7	6.0	5.7	6.3	5.8
GLADIATOR	4.3	5.7	7.3	8.0	5.0	5.3	6.0	5.7	6.7	6.0	5.7	5.7	5.7	5.8
BAR FT 135	5.3	5.3	8.3	5.7	3.7	5.0	6.0	5.3	6.0	5.3	5.7	6.0	5.3	5.6
BAR FT 132	4.3	5.0	5.0	4.3	4.0	5.3	5.0	5.0	5.7	6.0	6.0	5.7	5.7	5.5
LSD VALUE	4.4	5.2	2.2	2.8	7.0	2.6	1.6	1.3	1.3	1.0	1.0	1.3	2.7	0.8
C.V. (%)	28.7	33.8	14.1	20.2	44.3	16.2	11.1	10.6	8.2	6.6	6.1	7.5	15.4	5.2

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 9D.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

PERCENT GROUND COVER RATINGS APRIL-NOVEMBER

NAME	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER
RESOLUTE	77.3	94.3	95.0	87.3	84.3	69.0
DLFPS-FL-3104	77.0	96.3	88.0	84.3	84.7	61.7
SPHD-20	66.0	97.7	83.7	78.7	68.3	67.0
SWORD II (NAI-HAQ1+2)	79.0	95.7	87.0	87.0	93.7	84.0
BEACON II (PPG-FL 128)	63.0	97.3	79.7	71.7	72.7	58.0
PVF-PDB-2020	63.0	96.7	73.7	72.0	71.3	65.3
TENACIOUS (NAI-HTB2)	61.0	98.3	91.3	87.0	83.3	83.0
DA5-RHF	59.0	93.3	83.3	80.7	74.0	66.3
GLADIATOR	70.3	92.3	91.7	76.7	68.7	54.0
BAR FT 135	67.3	97.0	72.3	66.0	67.3	38.7
BAR FT 132	64.3	82.0	65.0	70.3	76.0	47.0
LSD VALUE	36.0	11.5	16.6	35.6	32.3	73.2
C.V. (%)	19.5	5.7	10.6	17.2	17.0	42.1

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 9E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	QUALITY RATINGS								MEAN
						APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BLUE HORNET (PPG-FO-102)	5.3	7.0	8.0	7.0	5.0	6.0	6.0	5.3	6.0	6.0	6.0	5.7	7.0	6.0
QUATRO	5.7	6.0	7.3	7.0	4.7	5.7	6.0	5.7	5.7	5.7	6.0	6.0	6.0	5.8
BAR FO 131	3.7	6.0	6.0	5.3	5.0	5.3	5.3	5.7	6.0	5.7	5.7	6.0	5.7	5.7
LSD VALUE	4.5	3.7	4.1	3.6	3.9	1.9	2.4	1.5	1.2	0.8	0.8	0.8	1.8	0.4
C.V. (%)	39.8	25.0	24.8	24.3	34.1	14.4	18.2	12.0	8.9	5.8	5.7	5.7	12.6	2.8

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

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

TABLE 9E.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

PERCENT GROUND COVER RATINGS APRIL-NOVEMBER

NAME	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER
BLUE HORNET (PPG-FO-102)	81.0	95.3	86.7	72.0	75.3	55.7
QUATRO	74.7	93.0	85.0	79.0	88.0	53.3
BAR FO 131	71.3	86.0	72.0	67.3	58.3	57.0
LSD VALUE	29.2	18.4	27.2	31.6	30.8	40.0
C.V. (%)	16.6	8.7	14.4	18.7	17.9	31.1

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 9F.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	QUALITY RATINGS							MEAN	
						APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
BAR FRL 122	5.0	6.7	8.3	8.7	8.0	5.7	5.7	5.7	6.3	6.0	6.0	6.3	6.7	6.0
SEABREEZE GT	6.3	6.0	7.7	7.0	7.3	5.7	6.3	5.7	6.0	6.0	6.0	6.0	6.7	6.0
LSD VALUE	4.5	3.7	4.1	3.6	3.9	1.9	2.4	1.5	1.2	0.8	0.8	0.8	1.8	0.4
C.V. (%)	26.0	25.8	10.2	13.8	5.3	12.5	13.6	21.6	6.6	0.0	0.0	6.6	0.0	2.9

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 9F.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT AMES, IA 1/
2023 DATA

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

PERCENT GROUND COVER RATINGS APRIL-NOVEMBER

NAME	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER
BAR FRL 122	79.3	96.3	96.0	96.3	90.0	89.3
SEABREEZE GT	75.0	93.3	85.3	83.7	73.3	84.3
LSD VALUE	29.2	18.4	27.2	31.6	30.8	40.0
C.V. (%)	14.6	3.9	8.0	8.1	5.9	5.7

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

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

TABLE 10A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN WITH ZERO NITROGEN FERTILIZER AT EAST LANSING, MI 1/
2023 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS				MEAN
		JUL	AUG	SEP	OCT	
BRITTANY 2	5.3	4.7	5.7	7.0	6.3	5.9
RADAR II (PPG-FRC 127)	5.0	4.7	5.7	6.7	6.7	5.9
DLFPS-FRC-3105	5.3	5.0	5.3	7.0	6.0	5.8
NAVIGATOR III (PPG-FRR 127)	5.0	5.0	5.3	6.7	6.0	5.8
PPG-FRC-130	5.0	4.7	5.0	6.7	6.7	5.8
PVF-MVP-2020	4.7	4.7	5.3	6.7	6.7	5.8
BAR FRL 122	5.3	5.0	5.7	6.3	5.7	5.7
DA5-RHF	5.3	4.7	5.3	6.7	6.0	5.7
PPG-FRR-134	5.3	5.3	5.0	6.0	5.3	5.4
RESONANCE (NAI-CHU1)	4.7	4.3	5.0	6.7	5.7	5.4
PVF-HSY+	4.7	5.0	4.7	6.0	5.3	5.3
RAD-FC59	5.0	4.3	5.0	6.3	5.7	5.3
COMPASS II	4.3	4.3	5.0	6.0	5.3	5.2
HARBOR MR (PPG-FRR 132)	5.7	4.0	6.0	5.7	5.0	5.2
JAMESTOWN VII	5.3	4.7	5.0	5.7	5.3	5.2
PVF-PDB-2020	4.7	5.3	5.0	5.3	5.0	5.2
BYE	5.0	4.3	4.7	6.0	5.3	5.1
BAR FRC 123	5.0	4.3	5.0	5.7	5.0	5.0
BAR FRC 130	4.7	4.7	4.7	5.7	5.0	5.0
HYPE (5Z5)	5.0	4.0	5.3	5.7	5.0	5.0
RESOLUTE	5.3	4.3	5.0	5.7	5.0	5.0
SPHD-20	5.0	4.7	5.0	5.7	4.7	5.0
SWORD II (NAI-HAQ1+2)	4.0	4.7	5.0	5.7	4.7	5.0
5Z2	4.7	4.0	5.0	5.7	5.0	4.9
MESO (STB1)	4.7	4.0	5.7	5.7	4.3	4.9
DLFPS-FL-3104	4.7	4.3	4.3	5.3	5.0	4.8
GLADIATOR	5.3	4.3	5.7	5.0	4.0	4.8
TENACIOUS (NAI-HTB2)	5.0	4.0	5.0	5.3	5.0	4.8
BEACON II (PPG-FL 128)	4.7	4.7	3.7	5.3	4.7	4.6
DLF-FRR-3128	5.0	4.0	5.0	5.0	4.0	4.5
BAR FO 131	4.3	4.0	4.3	5.0	4.3	4.4
BAR FT 135	5.3	3.3	4.7	5.0	4.7	4.4
FOXFIRE 2	5.3	3.0	4.3	5.3	4.3	4.3
KEVIN	4.7	3.3	4.7	5.0	4.3	4.3
PST-4SWTM	4.7	3.7	4.0	5.0	4.7	4.3
BLUE HORNET (PPG-FO-102)	5.0	3.7	5.0	4.0	4.0	4.2
BAR FT 132	5.3	3.7	4.0	4.3	4.3	4.1
CARDINAL II	5.0	3.0	4.0	5.0	4.3	4.1
SHADOW IV (PST-4SHAD)	4.3	3.3	4.0	5.3	3.7	4.1
QUATRO	5.3	4.0	4.3	3.7	4.0	4.0
RAD-FR64	4.7	3.0	3.7	5.0	4.0	3.9
SEABREEZE GT	5.0	3.7	4.0	4.3	3.7	3.9
BOREAL	3.7	2.7	3.0	3.3	3.3	3.1
LSD VALUE	1.7	1.3	1.1	1.0	1.1	0.7
C.V. (%)	12.4	16.9	13.2	11.5	13.5	9.1

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 10B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN WITH ZERO NITROGEN FERTILIZER AT EAST LANSING, MI 1/
2023 DATA

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

NAME	GENETIC COLOR	JUL	QUALITY RATINGS			MEAN
			AUG	SEP	OCT	
BRITTANY 2	5.3	4.7	5.7	7.0	6.3	5.9
RADAR II (PPG-FRC 127)	5.0	4.7	5.7	6.7	6.7	5.9
DLFPS-FRC-3105	5.3	5.0	5.3	7.0	6.0	5.8
PPG-FRC-130	5.0	4.7	5.0	6.7	6.7	5.8
PVF-MVP-2020	4.7	4.7	5.3	6.7	6.7	5.8
RESONANCE (NAI-CHU1)	4.7	4.3	5.0	6.7	5.7	5.4
RAD-FC59	5.0	4.3	5.0	6.3	5.7	5.3
COMPASS II	4.3	4.3	5.0	6.0	5.3	5.2
JAMESTOWN VII	5.3	4.7	5.0	5.7	5.3	5.2
BAR FRC 123	5.0	4.3	5.0	5.7	5.0	5.0
BAR FRC 130	4.7	4.7	4.7	5.7	5.0	5.0
PST-4SWTM	4.7	3.7	4.0	5.0	4.7	4.3
SHADOW IV (PST-4SHAD)	4.3	3.3	4.0	5.3	3.7	4.1
LSD VALUE	1.5	1.6	1.3	1.7	1.2	0.8
C.V. (%)	11.5	15.2	12.4	12.9	12.3	8.8

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

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

TABLE 10C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS GROWN WITH ZERO NITROGEN FERTILIZER AT EAST LANSING, MI 1/ 2023 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS				MEAN
		JUL	AUG	SEP	OCT	
NAVIGATOR III (PPG-FRR 127)	5.0	5.0	5.3	6.7	6.0	5.8
PPG-FRR-134	5.3	5.3	5.0	6.0	5.3	5.4
PVF-HSY+	4.7	5.0	4.7	6.0	5.3	5.3
HARBOR MR (PPG-FRR 132)	5.7	4.0	6.0	5.7	5.0	5.2
BYE	5.0	4.3	4.7	6.0	5.3	5.1
HYPE (5Z5)	5.0	4.0	5.3	5.7	5.0	5.0
5Z2	4.7	4.0	5.0	5.7	5.0	4.9
MESO (STB1)	4.7	4.0	5.7	5.7	4.3	4.9
DLF-FRR-3128	5.0	4.0	5.0	5.0	4.0	4.5
FOXFIRE 2	5.3	3.0	4.3	5.3	4.3	4.3
KEVIN	4.7	3.3	4.7	5.0	4.3	4.3
CARDINAL II	5.0	3.0	4.0	5.0	4.3	4.1
RAD-FR64	4.7	3.0	3.7	5.0	4.0	3.9
BOREAL	3.7	2.7	3.0	3.3	3.3	3.1
LSD VALUE	1.3	1.5	1.3	0.8	1.0	0.6
C.V. (%)	12.1	20.3	15.1	9.0	12.5	8.5

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

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

TABLE 10D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS GROWN WITH ZERO NITROGEN FERTILIZER AT EAST LANSING, MI 1/ 2023 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS				MEAN
		JUL	AUG	SEP	OCT	
DA5-RHF	5.3	4.7	5.3	6.7	6.0	5.7
PVF-PDB-2020	4.7	5.3	5.0	5.3	5.0	5.2
RESOLUTE	5.3	4.3	5.0	5.7	5.0	5.0
SPHD-20	5.0	4.7	5.0	5.7	4.7	5.0
SWORD II (NAI-HAQ1+2)	4.0	4.7	5.0	5.7	4.7	5.0
DLFPS-FL-3104	4.7	4.3	4.3	5.3	5.0	4.8
GLADIATOR	5.3	4.3	5.7	5.0	4.0	4.8
TENACIOUS (NAI-HTB2)	5.0	4.0	5.0	5.3	5.0	4.8
BEACON II (PPG-FL 128)	4.7	4.7	3.7	5.3	4.7	4.6
BAR FT 135	5.3	3.3	4.7	5.0	4.7	4.4
BAR FT 132	5.3	3.7	4.0	4.3	4.3	4.1
LSD VALUE	1.7	1.9	1.2	1.4	2.0	1.3
C.V. (%)	13.6	17.8	12.3	12.3	16.5	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 10E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SHEEP FESCUE CULTIVARS
GROWN WITH ZERO NITROGEN FERTILIZER AT EAST LANSING, MI 1/
2023 DATA

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

NAME	GENETIC COLOR	JUL	QUALITY RATINGS			MEAN
			AUG	SEP	OCT	
BAR FO 131	4.3	4.0	4.3	5.0	4.3	4.4
BLUE HORNET (PPG-FO-102)	5.0	3.7	5.0	4.0	4.0	4.2
QUATRO	5.3	4.0	4.3	3.7	4.0	4.0
LSD VALUE	2.0	0.8	1.8	0.8	1.2	0.3
C.V. (%)	18.0	8.6	17.2	7.9	12.8	3.1

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 10F.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN WITH ZERO NITROGEN FERTILIZER AT EAST LANSING, MI 1/
2023 DATA

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

NAME	GENETIC COLOR	JUL	QUALITY RATINGS			MEAN
			AUG	SEP	OCT	
BAR FRL 122	5.3	5.0	5.7	6.3	5.7	5.7
SEABREEZE GT	5.0	3.7	4.0	4.3	3.7	3.9
LSD VALUE	2.0	0.8	1.8	0.8	1.2	0.3
C.V. (%)	7.9	9.4	8.4	13.3	15.2	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 11A.

GENETIC COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										MEAN
	IA1	IN1	MI1	MN1	NC1	NJ2	QE1	UT1	WA1	WI1	
DLFPS-FL-3104	8.3	7.0	6.0	4.7	8.3	8.0	6.3	8.7	4.3	7.0	6.9
RAD-FC59	7.3	7.3	7.3	4.3	9.0	6.7	6.0	7.3	6.0	6.3	6.8
SPHD-20	7.0	8.0	6.7	4.3	8.7	7.3	5.3	8.3	5.0	6.7	6.7
SWORD II (NAI-HAQ1+2)	7.0	6.0	6.0	6.0	8.0	7.7	5.0	9.0	5.0	7.0	6.7
CARDINAL II	7.3	5.7	6.7	4.3	8.7	7.0	7.0	7.0	5.7	6.7	6.6
RESOLUTE	6.3	6.5	6.7	5.0	8.3	8.0	6.0	8.0	5.0	6.0	6.6
TENACIOUS (NAI-HTB2)	6.7	7.0	6.3	4.0	8.7	7.7	4.7	7.7	6.3	6.3	6.5
DA5-RHF	6.7	6.3	6.7	3.7	8.0	7.3	5.7	8.0	5.3	6.7	6.4
BEACON II (PPG-FL 128)	6.7	6.7	6.7	4.0	7.7	7.3	6.0	8.0	4.7	6.7	6.4
KEVIN	7.0	6.0	7.0	3.7	8.0	7.0	7.3	6.0	5.3	6.7	6.4
PVF-PDB-2020	5.3	6.3	6.7	4.0	8.3	7.7	5.7	8.3	4.7	6.7	6.4
FOXFIRE 2	7.0	6.0	6.7	3.7	8.0	6.3	7.3	6.3	5.7	6.3	6.3
GLADIATOR	7.3	6.0	6.3	3.7	8.0	7.3	5.3	7.3	5.3	6.7	6.3
BLUE HORNET (PPG-FO-102)	5.3	7.0	7.0	4.3	8.0	7.3	5.3	7.3	5.3	6.0	6.3
RAD-FR64	7.0	5.7	6.7	4.0	8.7	5.0	6.7	7.0	5.3	6.7	6.3
BAR FT 135	6.3	.	6.3	3.3	8.0	7.3	5.3	7.3	5.7	6.3	6.2
522	6.7	6.0	6.7	3.7	8.7	6.0	5.7	6.7	5.3	6.3	6.2
NAVIGATOR III (PPG-FRR 127)	4.0	7.0	7.0	4.0	8.3	5.7	6.0	6.7	6.0	7.0	6.2
QUATRO	6.0	6.0	6.3	4.3	8.3	7.3	5.0	7.3	4.7	6.0	6.1
BAR FT 132	5.3	.	6.3	4.3	8.3	7.7	4.3	7.3	4.7	6.0	6.0
BYE	6.0	7.3	6.0	2.7	8.0	5.0	6.7	5.3	6.0	7.0	6.0
PVF-HSY+	5.7	6.3	6.7	3.3	8.0	6.3	6.3	6.0	4.3	6.3	5.9
HYPE (5Z5)	5.7	6.0	6.3	2.3	8.0	5.7	6.7	6.3	5.7	6.3	5.9
DLF-FRR-3128	6.0	6.0	6.7	3.3	8.0	5.3	7.0	5.3	4.7	6.3	5.9
BAR FO 131	7.3	6.0	6.7	3.3	8.3	3.3	6.0	6.3	5.3	5.7	5.8
PPG-FRC-130	4.0	7.7	6.7	3.7	8.0	4.3	6.7	6.0	5.7	5.7	5.8
COMPASS II	5.0	7.0	7.0	3.7	7.3	5.7	5.0	6.3	4.7	6.0	5.8
HARBOR MR (PPG-FRR 132)	5.0	6.3	7.0	3.0	8.0	5.7	6.0	5.7	4.3	6.7	5.8
MESO (STB1)	5.7	5.7	6.3	3.0	8.0	6.7	5.7	5.3	4.7	6.3	5.7
PVF-MVP-2020	4.7	6.7	6.7	3.3	8.0	5.3	4.7	5.7	5.7	6.0	5.7
PPG-FRR-134	3.7	6.0	7.0	2.7	8.0	4.7	6.7	5.7	5.3	6.7	5.6
RESONANCE (NAI-CHU1)	4.0	7.3	6.3	3.7	7.7	5.7	5.0	5.3	5.3	5.7	5.6
JAMESTOWN VII	6.3	6.3	6.3	3.0	7.7	4.0	5.0	6.0	5.0	5.3	5.5
RADAR II (PPG-FRC 127)	2.7	7.3	6.7	3.3	7.3	5.3	5.3	6.3	4.7	5.7	5.5
DLFPS-FRC-3105	3.7	6.7	7.0	3.0	8.0	5.0	4.7	6.0	4.7	5.3	5.4
BRITTANY 2	4.7	7.3	7.0	3.0	7.0	4.3	5.0	5.3	4.7	5.3	5.4
SHADOW IV (PST-4SHAD)	7.0	6.0	6.7	2.7	7.0	6.0	4.0	5.7	4.0	4.7	5.4
PST-4SWTM	4.0	6.0	6.7	2.7	7.7	6.7	4.3	5.3	4.7	5.0	5.3
SEABREEZE GT	4.7	4.0	6.3	3.3	7.7	5.7	4.3	5.3	5.0	6.3	5.3
BOREAL	6.0	5.5	6.0	3.7	7.3	4.7	5.0	4.7	3.7	5.7	5.2
BAR FRC 123	4.3	6.0	5.7	2.7	7.7	4.7	4.3	5.3	4.7	4.7	5.0
BAR FRL 122	3.3	4.3	6.3	3.3	7.0	4.3	5.0	6.3	4.3	5.3	5.0
BAR FRC 130	4.0	6.0	6.0	2.3	7.3	4.0	4.7	5.0	4.0	5.0	4.8
LSD VALUE	2.3	1.2	1.0	1.6	0.7	1.5	1.7	1.2	1.6	1.1	0.5
C.V. (%)	24.7	10.1	9.0	28.3	5.2	15.3	19.1	11.1	19.9	11.5	15.1

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.

GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										
	IA1	IN1	MI1	MN1	NC1	NJ2	QE1	UT1	WA1	WI1	MEAN
RAD-FC59	7.3	7.3	7.3	4.3	9.0	6.7	6.0	7.3	6.0	6.3	6.8
PPG-FRC-130	4.0	7.7	6.7	3.7	8.0	4.3	6.7	6.0	5.7	5.7	5.8
COMPASS II	5.0	7.0	7.0	3.7	7.3	5.7	5.0	6.3	4.7	6.0	5.8
PVF-MVP-2020	4.7	6.7	6.7	3.3	8.0	5.3	4.7	5.7	5.7	6.0	5.7
RESONANCE (NAI-CHU1)	4.0	7.3	6.3	3.7	7.7	5.7	5.0	5.3	5.3	5.7	5.6
JAMESTOWN VII	6.3	6.3	6.3	3.0	7.7	4.0	5.0	6.0	5.0	5.3	5.5
RADAR II (PPG-FRC 127)	2.7	7.3	6.7	3.3	7.3	5.3	5.3	6.3	4.7	5.7	5.5
DLFPS-FRC-3105	3.7	6.7	7.0	3.0	8.0	5.0	4.7	6.0	4.7	5.3	5.4
BRITTANY 2	4.7	7.3	7.0	3.0	7.0	4.3	5.0	5.3	4.7	5.3	5.4
SHADOW IV (PST-4SHAD)	7.0	6.0	6.7	2.7	7.0	6.0	4.0	5.7	4.0	4.7	5.4
PST-4SWTM	4.0	6.0	6.7	2.7	7.7	6.7	4.3	5.3	4.7	5.0	5.3
BAR FRC 123	4.3	6.0	5.7	2.7	7.7	4.7	4.3	5.3	4.7	4.7	5.0
BAR FRC 130	4.0	6.0	6.0	2.3	7.3	4.0	4.7	5.0	4.0	5.0	4.8
LSD VALUE	2.0	1.1	0.8	1.4	0.7	1.7	2.0	1.2	1.8	1.1	0.5
C.V. (%)	26.4	9.8	7.3	26.6	5.5	19.9	24.5	12.6	22.7	12.5	16.1

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

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

TABLE 11C. GENETIC COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										
	IA1	IN1	MI1	MN1	NC1	NJ2	QE1	UT1	WA1	WI1	MEAN
CARDINAL II	7.3	5.7	6.7	4.3	8.7	7.0	7.0	7.0	5.7	6.7	6.6
KEVIN	7.0	6.0	7.0	3.7	8.0	7.0	7.3	6.0	5.3	6.7	6.4
FOXFIRE 2	7.0	6.0	6.7	3.7	8.0	6.3	7.3	6.3	5.7	6.3	6.3
RAD-FR64	7.0	5.7	6.7	4.0	8.7	5.0	6.7	7.0	5.3	6.7	6.3
5Z2	6.7	6.0	6.7	3.7	8.7	6.0	5.7	6.7	5.3	6.3	6.2
NAVIGATOR III (PPG-FRR 127)	4.0	7.0	7.0	4.0	8.3	5.7	6.0	6.7	6.0	7.0	6.2
BYE	6.0	7.3	6.0	2.7	8.0	5.0	6.7	5.3	6.0	7.0	6.0
PVF-HSY+	5.7	6.3	6.7	3.3	8.0	6.3	6.3	6.0	4.3	6.3	5.9
HYPE (5Z5)	5.7	6.0	6.3	2.3	8.0	5.7	6.7	6.3	5.7	6.3	5.9
DLF-FRR-3128	6.0	6.0	6.7	3.3	8.0	5.3	7.0	5.3	4.7	6.3	5.9
HARBOR MR (PPG-FRR 132)	5.0	6.3	7.0	3.0	8.0	5.7	6.0	5.7	4.3	6.7	5.8
MESO (STB1)	5.7	5.7	6.3	3.0	8.0	6.7	5.7	5.3	4.7	6.3	5.7
PPG-FRR-134	3.7	6.0	7.0	2.7	8.0	4.7	6.7	5.7	5.3	6.7	5.6
BOREAL	6.0	5.5	6.0	3.7	7.3	4.7	5.0	4.7	3.7	5.7	5.2
LSD VALUE	1.9	1.0	0.8	1.5	0.6	1.5	1.8	1.3	1.7	1.1	0.4
C.V. (%)	19.7	10.2	7.7	27.8	4.2	16.7	17.1	13.6	20.8	10.9	14.4

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

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

TABLE 11D. GENETIC COLOR RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										
	IA1	IN1	MI1	MN1	NC1	NJ2	QE1	UT1	WA1	WI1	MEAN
DLFPS-FL-3104	8.3	7.0	6.0	4.7	8.3	8.0	6.3	8.7	4.3	7.0	6.9
SPHD-20	7.0	8.0	6.7	4.3	8.7	7.3	5.3	8.3	5.0	6.7	6.7
SWORD II (NAI-HAQ1+2)	7.0	6.0	6.0	6.0	8.0	7.7	5.0	9.0	5.0	7.0	6.7
RESOLUTE	6.3	6.5	6.7	5.0	8.3	8.0	6.0	8.0	5.0	6.0	6.6
TENACIOUS (NAI-HTB2)	6.7	7.0	6.3	4.0	8.7	7.7	4.7	7.7	6.3	6.3	6.5
DA5-RHF	6.7	6.3	6.7	3.7	8.0	7.3	5.7	8.0	5.3	6.7	6.4
BEACON II (PPG-FL 128)	6.7	6.7	6.7	4.0	7.7	7.3	6.0	8.0	4.7	6.7	6.4
PVF-PDB-2020	5.3	6.3	6.7	4.0	8.3	7.7	5.7	8.3	4.7	6.7	6.4
GLADIATOR	7.3	6.0	6.3	3.7	8.0	7.3	5.3	7.3	5.3	6.7	6.3
BAR FT 135	6.3	.	6.3	3.3	8.0	7.3	5.3	7.3	5.7	6.3	6.2
BAR FT 132	5.3	.	6.3	4.3	8.3	7.7	4.3	7.3	4.7	6.0	6.0
LSD VALUE	2.3	1.5	1.2	1.9	0.7	1.0	1.5	1.0	1.4	1.2	0.5
C.V. (%)	21.8	10.6	11.5	28.2	5.6	8.0	17.3	7.8	17.4	11.6	13.8

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

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

TABLE 11E. GENETIC COLOR RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										
	IA1	IN1	MI1	MN1	NC1	NJ2	QE1	UT1	WA1	WI1	MEAN
BLUE HORNET (PPG-FO-102)	5.3	7	7.0	4.3	8.0	7.3	5.3	7.3	5.3	6.0	6.3
QUATRO	6.0	6	6.3	4.3	8.3	7.3	5.0	7.3	4.7	6.0	6.1
BAR FO 131	7.3	6	6.7	3.3	8.3	3.3	6.0	6.3	5.3	5.7	5.8
LSD VALUE	3.7	.	1.2	2.1	0.8	2.1	1.1	0.9	1.3	1.1	0.6
C.V. (%)	36.7	.	11.2	32.3	5.7	21.5	12.2	8.2	16.0	11.3	18.3

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 11F. GENETIC COLOR RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/										
	IA1	IN1	MI1	MN1	NC1	NJ2	QE1	UT1	WA1	WI1	MEAN
SEABREEZE GT	4.7	4.0	6.3	3.3	7.7	5.7	4.3	5.3	5.0	6.3	5.3
BAR FRL 122	3.3	4.3	6.3	3.3	7.0	4.3	5.0	6.3	4.3	5.3	5.0
LSD VALUE	2.9	0.7	0.9	1.5	0.7	0.9	1.3	0.9	0.7	0.9	0.4
C.V. (%)	45.6	9.8	9.1	27.4	5.6	11.5	17.5	9.9	8.7	9.9	16.0

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

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

TABLE 12A.

SPRING GREENUP RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	CT1	IA1	MI2	MN1	NJ1	NJ2	QE1	UT1	WA1	WI1	MEAN
PVF-PDB-2020	7.0	4.7	7.0	6.7	4.7	6.0	5.3	6.7	4.0	4.7	5.7
SWORD II (NAI-HAQ1+2)	7.0	4.7	7.3	5.7	7.3	6.0	4.7	6.3	3.0	4.0	5.6
PPG-FRC-130	6.7	7.0	7.0	2.7	6.7	6.3	5.0	7.0	3.7	3.0	5.5
BAR FT 135	7.0	3.3	6.7	4.3	8.0	7.0	4.3	5.3	3.7	4.7	5.4
BEACON II (PPG-FL 128)	7.0	3.7	7.0	4.3	6.7	6.0	5.0	6.0	3.7	4.7	5.4
TENACIOUS (NAI-HTB2)	6.7	5.3	7.0	5.0	7.0	4.7	4.3	5.0	3.3	5.3	5.4
DLFPS-FL-3104	6.7	5.0	7.0	5.7	3.0	6.0	4.7	6.7	3.0	5.3	5.3
SHADOW IV (PST-4SHAD)	7.0	5.0	6.3	2.3	5.3	7.0	5.7	6.0	4.7	3.7	5.3
BRITTANY 2	6.0	7.0	6.3	2.7	6.7	5.3	4.7	7.3	3.7	3.0	5.3
COMPASS II	6.7	5.7	6.7	3.0	6.7	4.7	4.7	6.3	4.0	2.7	5.2
RAD-FR64	6.3	7.0	7.3	2.7	5.3	8.0	4.0	3.3	4.0	4.0	5.2
MESO (STB1)	6.3	6.7	7.3	2.3	4.3	7.0	4.7	4.7	5.0	3.7	5.2
BAR FRC 130	6.7	3.7	6.3	2.7	8.0	5.3	5.0	6.3	5.0	2.7	5.2
GLADIATOR	5.7	5.7	6.3	6.0	5.7	4.3	5.0	5.3	3.0	4.3	5.1
BLUE HORNET (PPG-FO-102)	7.0	1.7	7.0	5.3	7.7	4.3	3.3	6.0	4.3	4.7	5.1
BAR FRL 122	6.7	2.7	7.3	2.0	7.3	5.3	5.3	6.7	4.3	3.7	5.1
SPHD-20	6.3	6.3	6.3	5.0	4.7	4.3	5.0	5.0	2.7	5.7	5.1
BAR FRC 123	5.7	4.0	7.0	2.7	6.3	5.7	5.0	6.3	4.7	3.7	5.1
PVF-MVP-2020	6.3	7.0	6.0	2.7	4.0	6.7	5.0	6.0	4.3	3.0	5.1
RADAR II (PPG-FRC 127)	7.0	5.3	5.3	2.3	6.3	5.7	5.3	6.0	4.0	3.0	5.0
BAR FT 132	6.7	4.3	6.7	4.3	6.3	5.3	4.3	5.0	2.7	4.3	5.0
QUATRO	6.3	3.3	6.7	5.3	7.0	5.0	3.7	4.3	3.7	4.7	5.0
DAS-RHF	6.7	4.7	5.7	4.7	4.7	6.0	4.7	5.3	3.3	4.0	5.0
DLFPS-FRC-3105	6.7	6.7	6.3	2.7	5.3	5.0	4.3	6.3	3.3	2.7	4.9
BAR FO 131	6.0	5.3	6.7	2.3	5.7	6.3	4.7	5.3	4.0	3.0	4.9
FOXFIRE 2	6.3	5.0	6.7	3.0	5.3	5.3	5.0	4.7	4.0	4.0	4.9
JAMESTOWN VII	6.3	6.3	5.3	2.3	5.3	6.7	5.3	5.7	3.3	2.7	4.9
HARBOR MR (PPG-FRR 132)	6.0	6.7	7.3	2.3	4.3	5.3	4.7	4.0	4.3	4.0	4.9
KEVIN	6.3	6.7	6.7	3.0	4.3	5.7	4.7	4.0	3.7	4.0	4.9
RESONANCE (NAI-CHU1)	6.7	7.0	6.3	2.0	4.3	6.0	4.7	6.0	3.3	2.0	4.8
SZ2	6.3	5.7	6.7	2.7	3.3	6.7	3.7	4.7	4.3	4.0	4.8
NAVIGATOR III (PPG-FRR 127)	6.7	6.3	6.7	2.7	2.3	6.0	4.0	5.0	4.3	3.7	4.8
DLF-FRR-3128	6.7	7.0	6.7	2.3	1.3	5.7	5.0	4.7	3.7	4.3	4.7
PVF-HSY+	6.3	5.7	6.7	2.3	4.0	5.7	4.7	4.7	3.7	3.7	4.7
RESOLUTE	6.0	5.3	5.3	4.3	5.3	4.7	4.7	5.0	3.0	3.7	4.7
PST-4SWTM	6.3	6.3	7.0	2.0	3.7	5.3	5.3	5.0	2.0	3.3	4.6
RAD-FC59	6.3	7.3	5.0	2.3	4.0	4.0	4.0	6.3	3.7	3.3	4.6
CARDINAL II	6.3	5.7	7.0	2.0	3.3	5.3	4.0	4.3	4.7	3.7	4.6
BYE	6.3	6.7	6.3	2.3	2.7	6.0	4.3	4.0	4.0	3.3	4.6
PPG-FRR-134	6.7	6.0	6.7	2.3	2.3	6.7	4.0	3.7	4.0	3.3	4.6
HYPE (SZ5)	6.3	6.0	6.0	2.7	2.0	5.7	4.0	4.3	3.7	3.7	4.4
BOREAL	6.0	5.7	7.3	2.3	2.7	5.3	4.0	3.3	3.7	4.0	4.4
SEABREEZE GT	6.0	4.0	7.0	1.3	4.0	4.3	4.3	3.3	4.7	4.0	4.3
LSD VALUE	1.0	2.1	1.3	1.2	2.3	1.8	1.3	1.3	1.2	1.2	0.5
C.V. (%)	9.7	23.7	11.8	23.0	28.6	19.8	17.5	15.8	20.2	19.5	19.0

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 12B. SPRING GREENUP RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

NAME	SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
	CT1	IA1	MI2	MN1	NJ1	NJ2	QE1	UT1	WA1	WI1	MEAN
PPG-FRC-130	6.7	7.0	7.0	2.7	6.7	6.3	5.0	7.0	3.7	3.0	5.5
SHADOW IV (PST-4SHAD)	7.0	5.0	6.3	2.3	5.3	7.0	5.7	6.0	4.7	3.7	5.3
BRITTANY 2	6.0	7.0	6.3	2.7	6.7	5.3	4.7	7.3	3.7	3.0	5.3
COMPASS II	6.7	5.7	6.7	3.0	6.7	5.7	4.7	6.3	4.0	2.7	5.2
BAR FRC 130	6.7	3.7	6.3	2.7	8.0	5.3	5.0	6.3	5.0	2.7	5.2
BAR FRC 123	5.7	4.0	7.0	2.7	6.3	5.7	5.0	6.3	4.7	3.7	5.1
PVF-MVP-2020	6.3	7.0	6.0	2.7	4.0	6.7	5.0	6.0	4.3	3.0	5.1
RADAR II (PPG-FRC 127)	7.0	5.3	5.3	2.3	6.3	5.7	5.3	6.0	4.0	3.0	5.0
DLFPS-FRC-3105	6.7	6.7	6.3	2.7	5.3	5.0	4.3	6.3	3.3	2.7	4.9
JAMESTOWN VII	6.3	6.3	5.3	2.3	5.3	6.7	5.3	5.7	3.3	2.7	4.9
RESONANCE (NAI-CHU1)	6.7	7.0	6.3	2.0	4.3	6.0	4.7	6.0	3.3	2.0	4.8
PST-4SWTM	6.3	6.3	7.0	2.0	3.7	5.3	5.3	5.0	2.0	3.3	4.6
RAD-FC59	6.3	7.3	5.0	2.3	4.0	4.0	4.0	6.3	3.7	3.3	4.6
LSD VALUE	1.0	2.0	1.6	0.9	2.8	2.0	1.3	1.2	1.3	0.7	0.5
C.V. (%)	9.9	20.2	15.8	23.2	31.1	22.1	16.6	12.1	20.5	15.2	19.7

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

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

TABLE 12C. SPRING GREENUP RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
	CT1	IA1	MI2	MN1	NJ1	NJ2	QE1	UT1	WA1	WI1	MEAN
RAD-FR64	6.3	7.0	7.3	2.7	5.3	8.0	4.0	3.3	4.0	4.0	5.2
MESO (STB1)	6.3	6.7	7.3	2.3	4.3	7.0	4.7	4.7	5.0	3.7	5.2
FOXFIRE 2	6.3	5.0	6.7	3.0	5.3	5.3	5.0	4.7	4.0	4.0	4.9
HARBOR MR (PPG-FRR 132)	6.0	6.7	7.3	2.3	4.3	5.3	4.7	4.0	4.3	4.0	4.9
KEVIN	6.3	6.7	6.7	3.0	4.3	5.7	4.7	4.0	3.7	4.0	4.9
5Z2	6.3	5.7	6.7	2.7	3.3	6.7	3.7	4.7	4.3	4.0	4.8
NAVIGATOR III (PPG-FRR 127)	6.7	6.3	6.7	2.7	2.3	6.0	4.0	5.0	4.3	3.7	4.8
DLF-FRR-3128	6.7	7.0	6.7	2.3	1.3	5.7	5.0	4.7	3.7	4.3	4.7
PVF-HSY+	6.3	5.7	6.7	2.3	4.0	5.7	4.7	4.7	3.7	3.7	4.7
CARDINAL II	6.3	5.7	7.0	2.0	3.3	5.3	4.0	4.3	4.7	3.7	4.6
BYE	6.3	6.7	6.3	2.3	2.7	6.0	4.3	4.0	4.0	3.3	4.6
PPG-FRR-134	6.7	6.0	6.7	2.3	2.3	6.7	4.0	3.7	4.0	3.3	4.6
HYPE (5Z5)	6.3	6.0	6.0	2.7	2.0	5.7	4.0	4.3	3.7	3.7	4.4
BOREAL	6.0	5.7	7.3	2.3	2.7	5.3	4.0	3.3	3.7	4.0	4.4
LSD VALUE	0.9	1.9	1.2	1.3	2.1	1.8	1.4	1.5	1.4	1.2	0.5
C.V. (%)	8.4	18.8	11.1	31.5	39.2	18.5	19.5	22.1	20.8	19.4	19.6

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

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

TABLE 12D. SPRING GREENUP RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

NAME	SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
	CT1	IA1	MI2	MN1	NJ1	NJ2	QE1	UT1	WA1	WI1	MEAN
PVF-PDB-2020	7.0	4.7	7.0	6.7	4.7	6.0	5.3	6.7	4.0	4.7	5.7
SWORD II (NAI-HAQ1+2)	7.0	4.7	7.3	5.7	7.3	6.0	4.7	6.3	3.0	4.0	5.6
BAR FT 135	7.0	3.3	6.7	4.3	8.0	7.0	4.3	5.3	3.7	4.7	5.4
BEACON II (PPG-FL 128)	7.0	3.7	7.0	4.3	6.7	6.0	5.0	6.0	3.7	4.7	5.4
TENACIOUS (NAI-HTB2)	6.7	5.3	7.0	5.0	7.0	4.7	4.3	5.0	3.3	5.3	5.4
DLFPS-FL-3104	6.7	5.0	7.0	5.7	3.0	6.0	4.7	6.7	3.0	5.3	5.3
GLADIATOR	5.7	5.7	6.3	6.0	5.7	4.3	5.0	5.3	3.0	4.3	5.1
SPHD-20	6.3	6.3	6.3	5.0	4.7	4.3	5.0	5.0	2.7	5.7	5.1
BAR FT 132	6.7	4.3	6.7	4.3	6.3	5.3	4.3	5.0	2.7	4.3	5.0
DA5-RHF	6.7	4.7	5.7	4.7	4.7	6.0	4.7	5.3	3.3	4.0	5.0
RESOLUTE	6.0	5.3	5.3	4.3	5.3	4.7	4.7	5.0	3.0	3.7	4.7
LSD VALUE	1.0	2.5	1.0	1.3	2.2	1.7	1.2	1.1	1.2	1.5	0.5
C.V. (%)	9.1	32.1	9.5	16.4	23.8	18.8	15.2	12.0	23.0	20.7	18.3

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 12E. SPRING GREENUP RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

NAME	SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
	CT1	IA1	MI2	MN1	NJ1	NJ2	QE1	UT1	WA1	WI1	MEAN
BLUE HORNET (PPG-FO-102)	7.0	1.7	7.0	5.3	7.7	4.3	3.3	6.0	4.3	4.7	5.1
QUATRO	6.3	3.3	6.7	5.3	7.0	5.0	3.7	4.3	3.7	4.7	5.0
BAR FO 131	6.0	5.3	6.7	2.3	5.7	6.3	4.7	5.3	4.0	3.0	4.9
LSD VALUE	1.4	2.3	0.8	1.6	1.2	1.2	1.6	1.5	0.8	1.5	0.5
C.V. (%)	13.7	41.1	7.0	23.1	11.0	14.3	25.7	18.1	11.8	22.9	17.9

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

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

TABLE 12F. SPRING GREENUP RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
	CT1	IA1	MI2	MN1	NJ1	NJ2	QE1	UT1	WA1	WI1	MEAN
BAR FRL 122	6.7	2.7	7.3	2.0	7.3	5.3	5.3	6.7	4.3	3.7	5.1
SEABREEZE GT	6.0	4.0	7.0	1.3	4.0	4.3	4.3	3.3	4.7	4.0	4.3
LSD VALUE	1.3	1.3	0.7	0.7	1.3	1.9	0.9	1.9	0.9	0.7	0.4
C.V. (%)	12.9	24.5	5.7	24.5	14.4	23.9	11.9	23.1	12.8	10.6	16.2

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

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

TABLE 13A.

LEAF TEXTURE RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

NAME	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/		
	NC1	NJ2	MEAN
BLUE HORNET (PPG-FO-102)	9.0	9.0	9.0
BEACON II (PPG-FL 128)	9.0	8.7	8.8
QUATRO	8.7	9.0	8.8
BAR FT 135	9.0	8.3	8.7
BAR FT 132	9.0	8.0	8.5
DA5-RHF	9.0	8.0	8.5
DLFPS-FL-3104	9.0	8.0	8.5
PVF-PDB-2020	9.0	8.0	8.5
SWORD II (NAI-HAQ1+2)	8.7	8.3	8.5
TENACIOUS (NAI-HTB2)	9.0	8.0	8.5
BRITTANY 2	9.0	7.7	8.3
GLADIATOR	9.0	7.7	8.3
RADAR II (PPG-FRC 127)	9.0	7.7	8.3
RESOLUTE	9.0	7.7	8.3
RESONANCE (NAI-CHU1)	9.0	7.7	8.3
SPHD-20	8.7	8.0	8.3
BAR FRC 130	9.0	7.0	8.0
BAR FRL 122	9.0	7.0	8.0
COMPASS II	9.0	7.0	8.0
DLFPS-FRC-3105	9.0	7.0	8.0
BAR FRC 123	9.0	6.7	7.8
NAVIGATOR III (PPG-FRR 127)	9.0	6.7	7.8
PPG-FRC-130	9.0	6.7	7.8
PST-4SWTM	9.0	6.7	7.8
PVF-MVP-2020	9.0	6.7	7.8
RAD-FC59	9.0	6.7	7.8
JAMESTOWN VII	8.7	7.0	7.8
BYE	9.0	6.3	7.7
HYPE (5Z5)	9.0	6.3	7.7
SHADOW IV (PST-4SHAD)	9.0	6.3	7.7
PPG-FRR-134	9.0	6.0	7.5
SEABREEZE GT	9.0	6.0	7.5
CARDINAL II	9.0	5.7	7.3
BAR FO 131	8.7	5.7	7.2
MESO (STB1)	9.0	5.3	7.2
5Z2	8.7	5.3	7.0
HARBOR MR (PPG-FRR 132)	9.0	5.0	7.0
PVF-HSY+	8.7	5.3	7.0
DLF-FRR-3128	9.0	4.3	6.7
FOXFIRE 2	8.7	4.7	6.7
RAD-FR64	8.7	4.3	6.5
KEVIN	9.0	3.7	6.3
BOREAL	8.7	3.7	6.2
LSD VALUE	0.4	1.0	0.5
C.V. (%)	3.1	8.8	5.9

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

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

TABLE 13B.

LEAF TEXTURE RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1	NJ2	MEAN
BRITTANY 2	9.0	7.7	8.3
RADAR II (PPG-FRC 127)	9.0	7.7	8.3
RESONANCE (NAI-CHU1)	9.0	7.7	8.3
BAR FRC 130	9.0	7.0	8.0
COMPASS II	9.0	7.0	8.0
DLFPS-FRC-3105	9.0	7.0	8.0
BAR FRC 123	9.0	6.7	7.8
PPG-FRC-130	9.0	6.7	7.8
PST-4SWTM	9.0	6.7	7.8
PVF-MVP-2020	9.0	6.7	7.8
RAD-FC59	9.0	6.7	7.8
JAMESTOWN VII	8.7	7.0	7.8
SHADOW IV (PST-4SHAD)	9.0	6.3	7.7
LSD VALUE	0.3	0.8	0.4
C.V. (%)	1.8	6.9	4.5

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 13C.

LEAF TEXTURE RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1	NJ2	MEAN
NAVIGATOR III (PPG-FRR 127)	9.0	6.7	7.8
BYE	9.0	6.3	7.7
HYPE (5Z5)	9.0	6.3	7.7
PPG-FRR-134	9.0	6.0	7.5
CARDINAL II	9.0	5.7	7.3
MESO (STB1)	9.0	5.3	7.2
5Z2	8.7	5.3	7.0
HARBOR MR (PPG-FRR 132)	9.0	5.0	7.0
PVF-HSY+	8.7	5.3	7.0
DLF-FRR-3128	9.0	4.3	6.7
FOXFIRE 2	8.7	4.7	6.7
RAD-FR64	8.7	4.3	6.5
KEVIN	9.0	3.7	6.3
BOREAL	8.7	3.7	6.2
LSD VALUE	0.6	1.1	0.6
C.V. (%)	3.9	13.6	7.9

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

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

TABLE 13D. LEAF TEXTURE RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1	NJ2	MEAN
BEACON II (PPG-FL 128)	9.0	8.7	8.8
BAR FT 135	9.0	8.3	8.7
BAR FT 132	9.0	8.0	8.5
DA5-RHF	9.0	8.0	8.5
DLFPS-FL-3104	9.0	8.0	8.5
PVF-PDB-2020	9.0	8.0	8.5
SWORD II (NAI-HAQ1+2)	8.7	8.3	8.5
TENACIOUS (NAI-HTB2)	9.0	8.0	8.5
GLADIATOR	9.0	7.7	8.3
RESOLUTE	9.0	7.7	8.3
SPHD-20	8.7	8.0	8.3
LSD VALUE	0.4	0.6	0.4
C.V. (%)	2.8	4.8	3.8

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 13E. LEAF TEXTURE RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1	NJ2	MEAN
BLUE HORNET (PPG-FO-102)	9.0	9.0	9.0
QUATRO	8.7	9.0	8.8
BAR FO 131	8.7	5.7	7.2
LSD VALUE	0.8	1.4	0.8
C.V. (%)	5.4	11.2	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 13F. LEAF TEXTURE RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1	NJ2	MEAN
BAR FRL 122	9	7.0	8.0
SEABREEZE GT	9	6.0	7.5
LSD VALUE	0	1.1	0.6
C.V. (%)	0	10.9	6.5

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 14A.

SPRING DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IA1	NC1	WI1	MEAN
BAR FT 135	8.3	8.7	6.0	7.7
BEACON II (PPG-FL 128)	7.7	9.0	6.0	7.6
PVF-PDB-2020	8.0	8.7	6.0	7.6
BAR FRL 122	8.0	9.0	5.3	7.4
GLADIATOR	7.3	9.0	6.0	7.4
SWORD II (NAI-HAQ1+2)	7.7	8.7	6.0	7.4
BAR FRC 123	7.3	8.7	6.0	7.3
DA5-RHF	7.7	8.7	5.7	7.3
DLFPS-FL-3104	7.7	8.7	5.7	7.3
BAR FRC 130	7.7	8.3	5.7	7.2
SPHD-20	6.7	9.0	6.0	7.2
TENACIOUS (NAI-HTB2)	7.0	8.7	6.0	7.2
BAR FT 132	7.3	8.3	5.7	7.1
SHADOW IV (PST-4SHAD)	6.7	9.0	5.7	7.1
RESOLUTE	7.3	8.0	5.7	7.0
COMPASS II	6.0	9.0	5.7	6.9
BAR FO 131	7.0	8.3	5.0	6.8
QUATRO	8.3	6.0	6.0	6.8
BLUE HORNET (PPG-FO-102)	8.7	6.0	5.7	6.8
BRITTANY 2	5.3	9.0	5.7	6.7
RADAR II (PPG-FRC 127)	6.0	9.0	5.0	6.7
DLFPS-FRC-3105	5.7	9.0	5.0	6.6
SZ2	5.3	8.7	5.3	6.4
NAVIGATOR III (PPG-FRR 127)	5.0	9.0	5.3	6.4
PST-4SWTM	5.0	9.0	5.3	6.4
FOXFIRE 2	5.0	8.7	5.3	6.3
JAMESTOWN VII	5.3	8.3	5.3	6.3
PPG-FRC-130	4.3	9.0	5.7	6.3
SEABREEZE GT	5.3	8.3	5.3	6.3
PVF-HSY+	4.7	8.7	5.3	6.2
PVF-MVP-2020	4.3	9.0	5.0	6.1
RESONANCE (NAI-CHU1)	4.3	9.0	5.0	6.1
RAD-FC59	3.3	9.0	5.7	6.0
HYPE (5Z5)	3.3	9.0	5.3	5.9
KEVIN	3.3	8.7	5.7	5.9
HARBOR MR (PPG-FRR 132)	3.7	9.0	5.0	5.9
PPG-FRR-134	3.7	9.0	5.0	5.9
RAD-FR64	4.0	8.3	5.0	5.8
BOREAL	5.3	7.0	5.0	5.8
BYE	3.0	9.0	5.3	5.8
CARDINAL II	3.3	8.7	5.0	5.7
MESO (STB1)	2.7	8.7	5.7	5.7
DLF-FRR-3128	2.3	9.0	5.3	5.6
LSD VALUE	2.1	1.5	0.7	0.9
C.V. (%)	22.9	11.1	8.3	14.7

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 14B.

SPRING DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IA1	NC1	WI1	MEAN
BAR FRC 123	7.3	8.7	6.0	7.3
BAR FRC 130	7.7	8.3	5.7	7.2
SHADOW IV (PST-4SHAD)	6.7	9.0	5.7	7.1
COMPASS II	6.0	9.0	5.7	6.9
BRITTANY 2	5.3	9.0	5.7	6.7
RADAR II (PPG-FRC 127)	6.0	9.0	5.0	6.7
DLFPS-FRC-3105	5.7	9.0	5.0	6.6
PST-4SWTM	5.0	9.0	5.3	6.4
JAMESTOWN VII	5.3	8.3	5.3	6.3
PPG-FRC-130	4.3	9.0	5.7	6.3
PVF-MVP-2020	4.3	9.0	5.0	6.1
RESONANCE (NAI-CHU1)	4.3	9.0	5.0	6.1
RAD-FC59	3.3	9.0	5.7	6.0
LSD VALUE	2.2	0.6	0.7	0.8
C.V. (%)	24.9	4.4	8.3	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 14C.

SPRING DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IA1	NC1	WI1	MEAN
5Z2	5.3	8.7	5.3	6.4
NAVIGATOR III (PPG-FRR 127)	5.0	9.0	5.3	6.4
FOXFIRE 2	5.0	8.7	5.3	6.3
PVF-HSY+	4.7	8.7	5.3	6.2
HYPE (5Z5)	3.3	9.0	5.3	5.9
KEVIN	3.3	8.7	5.7	5.9
HARBOR MR (PPG-FRR 132)	3.7	9.0	5.0	5.9
PPG-FRR-134	3.7	9.0	5.0	5.9
RAD-FR64	4.0	8.3	5.0	5.8
BOREAL	5.3	7.0	5.0	5.8
BYE	3.0	9.0	5.3	5.8
CARDINAL II	3.3	8.7	5.0	5.7
MESO (STB1)	2.7	8.7	5.7	5.7
DLF-FRR-3128	2.3	9.0	5.3	5.6
LSD VALUE	2.7	0.7	0.9	1.0
C.V. (%)	42.4	4.7	10.2	17.3

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

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

TABLE 14D.

SPRING DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/			
	IA1	NC1	WI1	MEAN
BAR FT 135	8.3	8.7	6.0	7.7
BEACON II (PPG-FL 128)	7.7	9.0	6.0	7.6
PVF-PDB-2020	8.0	8.7	6.0	7.6
GLADIATOR	7.3	9.0	6.0	7.4
SWORD II (NAI-HAQ1+2)	7.7	8.7	6.0	7.4
DA5-RHF	7.7	8.7	5.7	7.3
DLFPS-FL-3104	7.7	8.7	5.7	7.3
SPHD-20	6.7	9.0	6.0	7.2
TENACIOUS (NAI-HTB2)	7.0	8.7	6.0	7.2
BAR FT 132	7.3	8.3	5.7	7.1
RESOLUTE	7.3	8.0	5.7	7.0
LSD VALUE	1.4	0.7	0.6	0.6
C.V. (%)	11.3	5.3	5.9	8.1

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

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

TABLE 14E.

SPRING DENSITY RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/			
	IA1	NC1	WI1	MEAN
BAR FO 131	7.0	8.3	5.0	6.8
QUATRO	8.3	6.0	6.0	6.8
BLUE HORNET (PPG-FO-102)	8.7	6.0	5.7	6.8
LSD VALUE	1.5	5.2	0.5	1.8
C.V. (%)	11.8	47.7	6.0	28.8

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 14F.

SPRING DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/			
	IA1	NC1	WI1	MEAN
BAR FRL 122	8.0	9.0	5.3	7.4
SEABREEZE GT	5.3	8.3	5.3	6.3
C.V. (%)	6.1	9.4	10.8	9.1
LSD VALUE	0.7	1.3	0.9	0.6

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

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

TABLE 15A.

SUMMER DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	CT1	IA1	MI2	UT1	WI1	MEAN
RADAR II (PPG-FRC 127)	7.0	8.3	6.0	7.7	7.3	7.3
DLFPS-FRC-3105	7.0	7.3	6.3	8.0	7.0	7.1
PPG-FRC-130	7.0	7.7	6.0	7.7	7.0	7.1
BAR FRC 130	7.0	7.3	6.0	7.0	6.7	6.8
DLFPS-FL-3104	7.3	6.0	5.7	7.7	7.3	6.8
BRITTANY 2	7.0	6.0	6.3	7.7	6.7	6.7
HYPE (5Z5)	6.7	7.0	5.3	7.0	7.3	6.7
PPG-FRR-134	7.0	6.7	5.7	7.0	7.0	6.7
RESONANCE (NAI-CHU1)	7.0	5.7	6.7	7.0	7.0	6.7
SHADOW IV (PST-4SHAD)	7.0	7.7	5.3	7.0	6.3	6.7
MESO (STB1)	6.3	7.3	5.7	7.3	6.7	6.7
BAR FRL 122	7.0	6.0	6.0	7.3	6.7	6.6
PST-4SWTM	7.0	7.0	5.0	7.7	6.3	6.6
SEABREEZE GT	6.7	7.7	5.3	6.7	6.3	6.5
BAR FRC 123	7.0	6.0	6.0	7.0	6.7	6.5
HARBOR MR (PPG-FRR 132)	6.3	7.0	6.3	6.3	6.7	6.5
SWORD II (NAI-HAQ1+2)	7.0	5.0	6.0	7.3	7.3	6.5
TENACIOUS (NAI-HTB2)	7.0	5.0	6.3	7.3	7.0	6.5
5Z2	6.3	7.7	5.3	6.7	6.3	6.5
GLADIATOR	7.3	4.3	5.3	7.7	7.7	6.5
BEACON II (PPG-FL 128)	7.0	6.3	4.7	7.3	7.0	6.5
BAR FT 135	7.0	6.7	5.0	6.3	7.0	6.4
SPHD-20	7.7	4.3	5.0	7.3	7.7	6.4
NAVIGATOR III (PPG-FRR 127)	6.3	6.3	6.0	6.3	7.0	6.4
COMPASS II	7.0	4.0	6.7	7.0	7.0	6.3
PVF-HSY+	6.3	6.7	5.7	6.3	6.7	6.3
PVF-MVP-2020	7.0	6.7	5.0	6.7	6.3	6.3
PVF-PDB-2020	7.0	5.3	5.3	7.0	7.0	6.3
BYE	6.7	6.0	5.7	6.0	7.0	6.3
RESOLUTE	7.0	4.7	5.7	7.0	7.0	6.3
DA5-RHF	7.0	4.3	5.7	7.3	7.0	6.3
CARDINAL II	6.3	6.0	4.7	7.0	6.7	6.1
BLUE HORNET (PPG-FO-102)	7.0	6.7	4.7	5.0	7.0	6.1
FOXFIRE 2	6.7	6.7	4.3	6.7	6.0	6.1
DLF-FRR-3128	6.3	6.7	4.3	6.3	6.7	6.1
JAMESTOWN VII	6.7	5.3	6.3	6.0	6.0	6.1
RAD-FC59	6.3	5.0	5.0	7.3	6.7	6.1
BAR FT 132	7.0	5.0	4.3	6.7	7.0	6.0
QUATRO	7.7	5.3	4.7	6.0	6.3	6.0
BAR FO 131	6.7	6.0	3.7	6.3	6.0	5.7
BOREAL	6.0	6.3	3.3	6.0	6.7	5.7
RAD-FR64	6.0	4.7	4.7	6.3	6.3	5.6
KEVIN	6.7	4.0	4.0	6.7	6.3	5.5
LSD VALUE	0.6	2.6	1.2	1.2	0.8	0.7
C.V. (%)	5.6	26.8	13.6	10.6	7.6	14.2

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

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

TABLE 15B.

SUMMER DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	CT1	IA1	MI2	UT1	WI1	MEAN
RADAR II (PPG-FRC 127)	7.0	8.3	6.0	7.7	7.3	7.3
DLFPS-FRC-3105	7.0	7.3	6.3	8.0	7.0	7.1
PPG-FRC-130	7.0	7.7	6.0	7.7	7.0	7.1
BAR FRC 130	7.0	7.3	6.0	7.0	6.7	6.8
BRITTANY 2	7.0	6.0	6.3	7.7	6.7	6.7
RESONANCE (NAI-CHU1)	7.0	5.7	6.7	7.0	7.0	6.7
SHADOW IV (PST-4SHAD)	7.0	7.7	5.3	7.0	6.3	6.7
PST-4SWTM	7.0	7.0	5.0	7.7	6.3	6.6
BAR FRC 123	7.0	6.0	6.0	7.0	6.7	6.5
COMPASS II	7.0	4.0	6.7	7.0	7.0	6.3
PVF-MVP-2020	7.0	6.7	5.0	6.7	6.3	6.3
JAMESTOWN VII	6.7	5.3	6.3	6.0	6.0	6.1
RAD-FC59	6.3	5.0	5.0	7.3	6.7	6.1
LSD VALUE	0.4	2.6	1.4	1.3	0.9	0.7
C.V. (%)	3.3	25.3	14.9	11.5	7.9	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 15C.

SUMMER DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	CT1	IA1	MI2	UT1	WI1	MEAN
HYPE (5Z5)	6.7	7.0	5.3	7.0	7.3	6.7
PPG-FRR-134	7.0	6.7	5.7	7.0	7.0	6.7
MESO (STB1)	6.3	7.3	5.7	7.3	6.7	6.7
HARBOR MR (PPG-FRR 132)	6.3	7.0	6.3	6.3	6.7	6.5
5Z2	6.3	7.7	5.3	6.7	6.3	6.5
NAVIGATOR III (PPG-FRR 127)	6.3	6.3	6.0	6.3	7.0	6.4
PVF-HSY+	6.3	6.7	5.7	6.3	6.7	6.3
BYE	6.7	6.0	5.7	6.0	7.0	6.3
CARDINAL II	6.3	6.0	4.7	7.0	6.7	6.1
FOXFIRE 2	6.7	6.7	4.3	6.7	6.0	6.1
DLF-FRR-3128	6.3	6.7	4.3	6.3	6.7	6.1
BOREAL	6.0	6.3	3.3	6.0	6.7	5.7
RAD-FR64	6.0	4.7	4.7	6.3	6.3	5.6
KEVIN	6.7	4.0	4.0	6.7	6.3	5.5
LSD VALUE	0.8	1.8	1.1	1.1	0.9	0.5
C.V. (%)	8.0	17.8	12.9	10.8	8.3	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 15D. SUMMER DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/					
	CT1	IA1	MI2	UT1	WI1	MEAN
DLFPS-FL-3104	7.3	6.0	5.7	7.7	7.3	6.8
SWORD II (NAI-HAQ1+2)	7.0	5.0	6.0	7.3	7.3	6.5
TENACIOUS (NAI-HTB2)	7.0	5.0	6.3	7.3	7.0	6.5
GLADIATOR	7.3	4.3	5.3	7.7	7.7	6.5
BEACON II (PPG-FL 128)	7.0	6.3	4.7	7.3	7.0	6.5
BAR FT 135	7.0	6.7	5.0	6.3	7.0	6.4
SPHD-20	7.7	4.3	5.0	7.3	7.7	6.4
PVF-PDB-2020	7.0	5.3	5.3	7.0	7.0	6.3
RESOLUTE	7.0	4.7	5.7	7.0	7.0	6.3
DA5-RHF	7.0	4.3	5.7	7.3	7.0	6.3
BAR FT 132	7.0	5.0	4.3	6.7	7.0	6.0
LSD VALUE	0.5	3.3	1.0	1.0	0.6	0.7
C.V. (%)	4.2	40.0	12.1	8.4	4.8	16.1

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

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

TABLE 15E. SUMMER DENSITY RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/					
	CT1	IA1	MI2	UT1	WI1	MEAN
BLUE HORNET (PPG-FO-102)	7.0	6.7	4.7	5.0	7.0	6.1
QUATRO	7.7	5.3	4.7	6.0	6.3	6.0
BAR FO 131	6.7	6.0	3.7	6.3	6.0	5.7
LSD VALUE	0.8	2.6	0.9	1.4	1.1	0.7
C.V. (%)	6.6	26.6	13.3	15.3	10.3	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 15F. SUMMER DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/					
	CT1	IA1	MI2	UT1	WI1	MEAN
BAR FRL 122	7.0	6.0	6.0	7.3	6.7	6.6
SEABREEZE GT	6.7	7.7	5.3	6.7	6.3	6.5
LSD VALUE	0.7	2.9	1.3	0.9	0.9	0.7
C.V. (%)	6.0	26.0	14.4	8.2	8.9	14.7

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 16A.

FALL DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	CT1	IA1	NJ2	QE1	WA1	WI1	MEAN
RADAR II (PPG-FRC 127)	8.0	8.3	8.7	5.7	5.3	7.3	7.2
DLFPS-FRC-3105	8.0	8.0	8.0	6.0	6.7	6.3	7.2
PPG-FRC-130	7.7	7.3	7.7	6.3	6.0	7.7	7.1
BEACON II (PPG-FL 128)	7.0	7.3	8.7	7.0	6.0	6.3	7.1
BLUE HORNET (PPG-FO-102)	7.0	8.3	8.0	7.3	5.7	6.0	7.1
BAR FRC 130	7.3	8.7	7.0	6.0	6.3	6.7	7.0
TENACIOUS (NAI-HTB2)	6.7	6.7	8.0	5.7	7.3	7.3	6.9
PVF-MVP-2020	7.7	8.0	6.3	6.3	6.3	7.0	6.9
BRITTANY 2	8.0	7.7	6.7	6.0	6.0	7.0	6.9
DA5-RHF	7.0	7.7	7.3	6.7	5.7	7.0	6.9
DLFPS-FL-3104	6.3	7.3	8.3	7.7	4.7	7.0	6.9
PVF-PDB-2020	6.7	8.3	7.0	7.0	5.3	7.0	6.9
RESONANCE (NAI-CHU1)	8.0	5.7	9.0	6.0	6.3	6.3	6.9
COMPASS II	7.7	7.3	6.3	6.0	6.7	7.0	6.8
SWORD II (NAI-HAQ1+2)	6.7	6.3	8.3	6.7	6.0	7.0	6.8
QUATRO	7.7	7.0	8.0	7.0	4.7	6.0	6.7
BAR FRC 123	7.3	8.0	5.0	7.0	6.3	6.7	6.7
BAR FT 135	6.3	8.7	6.3	6.7	5.3	6.7	6.7
GLADIATOR	6.3	7.7	6.0	7.3	5.3	7.3	6.7
HYPE (5Z5)	7.3	8.3	6.3	6.0	5.7	6.3	6.7
NAVIGATOR III (PPG-FRR 127)	8.0	6.7	7.0	6.0	5.7	6.7	6.7
BYE	7.7	8.0	6.0	6.0	6.0	6.0	6.6
PVF-HSY+	7.7	8.7	5.7	5.0	6.0	6.3	6.6
PPG-FRR-134	7.3	8.0	5.3	6.0	7.0	5.7	6.6
BAR FRL 122	7.7	8.0	5.7	6.0	5.3	6.3	6.5
RESOLUTE	6.7	7.3	7.3	6.3	5.0	6.3	6.5
BAR FT 132	6.0	7.3	6.3	6.7	4.7	7.0	6.3
PST-4SWTM	7.7	7.7	5.3	6.0	5.7	5.7	6.3
SPHD-20	7.0	6.7	6.7	7.0	4.0	6.7	6.3
JAMESTOWN VII	7.7	7.0	5.3	5.7	6.0	5.3	6.2
RAD-FC59	7.7	6.3	5.3	5.0	6.0	6.7	6.2
5Z2	7.3	7.7	5.3	5.0	5.7	5.7	6.1
SHADOW IV (PST-4SHAD)	7.0	8.0	4.3	6.0	5.0	5.7	6.0
BAR FO 131	7.7	7.7	3.7	5.0	5.0	6.0	5.8
CARDINAL II	6.3	8.0	3.0	5.7	5.7	6.3	5.8
HARBOR MR (PPG-FRR 132)	7.0	7.7	3.0	5.3	6.0	5.7	5.8
MESO (STB1)	7.0	7.3	4.0	5.0	5.0	5.7	5.7
DLF-FRR-3128	6.7	7.7	3.3	5.3	5.3	5.3	5.6
SEABREEZE GT	6.7	8.3	1.7	5.3	6.0	5.7	5.6
FOXFIRE 2	7.0	6.7	3.0	5.7	5.3	5.0	5.4
RAD-FR64	7.0	7.7	2.7	5.3	4.7	5.3	5.4
KEVIN	6.0	7.3	2.0	6.0	5.3	5.0	5.3
BOREAL	5.7	6.7	1.3	5.0	4.3	4.7	4.6
LSD VALUE	1.0	2.0	1.8	1.3	1.9	1.1	0.6
C.V. (%)	8.3	16.6	18.9	13.2	20.6	10.5	15.0

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 16B. FALL DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						MEAN
	CT1	IA1	NJ2	QE1	WA1	WI1	
RADAR II (PPG-FRC 127)	8.0	8.3	8.7	5.7	5.3	7.3	7.2
DLFPS-FRC-3105	8.0	8.0	8.0	6.0	6.7	6.3	7.2
PPG-FRC-130	7.7	7.3	7.7	6.3	6.0	7.7	7.1
BAR FRC 130	7.3	8.7	7.0	6.0	6.3	6.7	7.0
PVF-MVP-2020	7.7	8.0	6.3	6.3	6.3	7.0	6.9
BRITTANY 2	8.0	7.7	6.7	6.0	6.0	7.0	6.9
RESONANCE (NAI-CHU1)	8.0	5.7	9.0	6.0	6.3	6.3	6.9
COMPASS II	7.7	7.3	6.3	6.0	6.7	7.0	6.8
BAR FRC 123	7.3	8.0	5.0	7.0	6.3	6.7	6.7
PST-4SWTM	7.7	7.7	5.3	6.0	5.7	5.7	6.3
JAMESTOWN VII	7.7	7.0	5.3	5.7	6.0	5.3	6.2
RAD-FC59	7.7	6.3	5.3	5.0	6.0	6.7	6.2
SHADOW IV (PST-4SHAD)	7.0	8.0	4.3	6.0	5.0	5.7	6.0
LSD VALUE	0.7	2.3	1.7	1.5	1.8	1.1	0.7
C.V. (%)	5.9	19.4	15.9	15.6	18.1	10.6	14.8

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

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

TABLE 16C. FALL DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						MEAN
	CT1	IA1	NJ2	QE1	WA1	WI1	
HYPE (5Z5)	7.3	8.3	6.3	6.0	5.7	6.3	6.7
NAVIGATOR III (PPG-FRR 127)	8.0	6.7	7.0	6.0	5.7	6.7	6.7
BYE	7.7	8.0	6.0	6.0	6.0	6.0	6.6
PVF-HSY+	7.7	8.7	5.7	5.0	6.0	6.3	6.6
PPG-FRR-134	7.3	8.0	5.3	6.0	7.0	5.7	6.6
5Z2	7.3	7.7	5.3	5.0	5.7	5.7	6.1
CARDINAL II	6.3	8.0	3.0	5.7	5.7	6.3	5.8
HARBOR MR (PPG-FRR 132)	7.0	7.7	3.0	5.3	6.0	5.7	5.8
MESO (STB1)	7.0	7.3	4.0	5.0	5.0	5.7	5.7
DLF-FRR-3128	6.7	7.7	3.3	5.3	5.3	5.3	5.6
FOXFIRE 2	7.0	6.7	3.0	5.7	5.3	5.0	5.4
RAD-FR64	7.0	7.7	2.7	5.3	4.7	5.3	5.4
KEVIN	6.0	7.3	2.0	6.0	5.3	5.0	5.3
BOREAL	5.7	6.7	1.3	5.0	4.3	4.7	4.6
LSD VALUE	1.0	2.0	1.9	1.3	1.9	0.9	0.6
C.V. (%)	9.1	16.0	29.1	15.0	21.0	10.1	16.5

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

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

TABLE 16D.

FALL DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						MEAN
	CT1	IA1	NJ2	QE1	WA1	WI1	
BEACON II (PPG-FL 128)	7.0	7.3	8.7	7.0	6.0	6.3	7.1
TENACIOUS (NAI-HTB2)	6.7	6.7	8.0	5.7	7.3	7.3	6.9
DA5-RHF	7.0	7.7	7.3	6.7	5.7	7.0	6.9
DLFPS-FL-3104	6.3	7.3	8.3	7.7	4.7	7.0	6.9
PVF-PDB-2020	6.7	8.3	7.0	7.0	5.3	7.0	6.9
SWORD II (NAI-HAQ1+2)	6.7	6.3	8.3	6.7	6.0	7.0	6.8
BAR FT 135	6.3	8.7	6.3	6.7	5.3	6.7	6.7
GLADIATOR	6.3	7.7	6.0	7.3	5.3	7.3	6.7
RESOLUTE	6.7	7.3	7.3	6.3	5.0	6.3	6.5
BAR FT 132	6.0	7.3	6.3	6.7	4.7	7.0	6.3
SPHD-20	7.0	6.7	6.7	7.0	4.0	6.7	6.3
LSD VALUE	1.0	1.9	1.9	1.0	2.1	1.2	0.6
C.V. (%)	9.5	16.1	15.8	9.6	23.9	10.7	14.6

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

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

TABLE 16E.

FALL DENSITY RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						MEAN
	CT1	IA1	NJ2	QE1	WA1	WI1	
BLUE HORNET (PPG-FO-102)	7.0	8.3	8.0	7.3	5.7	6.0	7.1
QUATRO	7.7	7.0	8.0	7.0	4.7	6.0	6.7
BAR FO 131	7.7	7.7	3.7	5.0	5.0	6.0	5.8
LSD VALUE	1.2	1.2	1.4	0.5	0.8	0.9	0.4
C.V. (%)	10.0	9.7	13.5	5.2	9.2	9.6	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 16F.

FALL DENSITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						MEAN
	CT1	IA1	NJ2	QE1	WA1	WI1	
BAR FRL 122	7.7	8.0	5.7	6.0	5.3	6.3	6.5
SEABREEZE GT	6.7	8.3	1.7	5.3	6.0	5.7	5.6
LSD VALUE	0.9	1.7	0.9	1.3	2.4	0.9	0.6
C.V. (%)	8.1	13.2	15.7	14.4	26.0	9.6	15.1

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 17A. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

NAME	PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/					MEAN
	IA1	IN1	MN1	NC1	VA1	
DLFPS-FRC-3105	99.0	86.7	18.0	99.0	99.0	80.3
RESONANCE (NAI-CHU1)	99.0	91.7	12.7	99.0	99.0	80.3
BRITTANY 2	99.0	87.3	14.7	99.0	99.0	79.8
RADAR II (PPG-FRC 127)	99.0	85.7	15.7	99.0	99.0	79.7
PPG-FRC-130	99.0	80.0	18.7	98.7	99.0	79.1
PVF-MVP-2020	99.0	76.7	17.0	99.0	99.0	78.1
NAVIGATOR III (PPG-FRR 127)	99.0	78.3	14.7	99.0	99.0	78.0
SHADOW IV (PST-4SHAD)	99.0	75.0	16.0	99.0	99.0	77.6
5Z2	99.0	76.7	15.0	98.0	99.0	77.5
HARBOR MR (PPG-FRR 132)	99.0	76.7	13.3	99.0	99.0	77.4
HYPE (5Z5)	99.0	73.3	13.0	99.0	99.0	76.7
BYE	99.0	76.7	9.3	99.0	99.0	76.6
MESO (STB1)	99.0	75.0	11.0	99.0	99.0	76.6
COMPASS II	99.0	65.0	19.7	99.0	99.0	76.3
PVF-HSY+	99.0	73.3	11.0	99.0	99.0	76.3
DLF-FRR-3128	98.0	70.0	13.3	99.0	99.0	75.9
JAMESTOWN VII	99.0	66.7	12.7	99.0	99.0	75.3
BEACON II (PPG-FL 128)	99.0	22.0	56.3	96.7	99.0	74.6
PPG-FRR-134	99.0	65.0	10.7	99.0	99.0	74.5
BAR FRL 122	99.0	56.7	17.3	98.0	99.0	74.0
FOXFIRE 2	98.7	53.3	16.0	99.0	99.0	73.2
KEVIN	99.0	51.7	16.7	99.0	99.0	73.1
SEABREEZE GT	99.0	80.0	6.0	81.3	99.0	73.1
DA5-RHF	99.0	15.0	52.3	97.0	99.0	72.5
SWORD II (NAI-HAQ1+2)	99.0	2.3	68.0	94.0	99.0	72.5
BAR FRC 123	99.0	43.3	19.0	98.3	99.0	71.7
PVF-PDB-2020	99.0	8.7	71.0	79.3	99.0	71.4
DLFPS-FL-3104	99.0	6.7	61.3	90.0	99.0	71.2
CARDINAL II	99.0	40.7	11.3	99.0	99.0	69.8
TENACIOUS (NAI-HTB2)	99.0	4.7	52.0	93.3	99.0	69.6
BAR FRC 130	99.0	31.7	19.7	97.7	99.0	69.4
RAD-FC59	99.0	43.3	12.7	93.0	99.0	69.4
GLADIATOR	99.0	4.7	67.7	75.7	99.0	69.2
BAR FT 135	99.0	3.0	48.7	94.3	99.0	68.8
PST-4SWTM	99.0	38.3	9.0	98.3	99.0	68.7
RAD-FR64	99.0	48.3	14.0	82.3	99.0	68.5
SPHD-20	99.0	4.0	50.7	86.0	99.0	67.7
RESOLUTE	99.0	11.7	42.0	71.7	99.0	64.7
QUATRO	99.0	2.0	63.0	55.0	99.0	63.6
BAR FO 131	99.0	7.3	14.7	96.7	99.0	63.3
BLUE HORNET (PPG-FO-102)	99.0	5.7	66.0	50.0	92.7	62.7
BAR FT 132	99.0	3.0	40.3	71.7	99.0	62.6
BOREAL	98.0	16.0	14.3	85.7	99.0	62.6
LSD VALUE	0.6	16.6	11.2	15.1	2.7	5.0
C.V. (%)	0.4	22.4	25.6	10.2	1.7	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 17B. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	IN1	MN1	NC1	VA1	MEAN
DLFPS-FRC-3105	99	86.7	18.0	99.0	99	80.3
RESONANCE (NAI-CHU1)	99	91.7	12.7	99.0	99	80.3
BRITTANY 2	99	87.3	14.7	99.0	99	79.8
RADAR II (PPG-FRC 127)	99	85.7	15.7	99.0	99	79.7
PPG-FRC-130	99	80.0	18.7	98.7	99	79.1
PVF-MVP-2020	99	76.7	17.0	99.0	99	78.1
SHADOW IV (PST-4SHAD)	99	75.0	16.0	99.0	99	77.6
COMPASS II	99	65.0	19.7	99.0	99	76.3
JAMESTOWN VII	99	66.7	12.7	99.0	99	75.3
BAR FRC 123	99	43.3	19.0	98.3	99	71.7
BAR FRC 130	99	31.7	19.7	97.7	99	69.4
RAD-FC59	99	43.3	12.7	93.0	99	69.4
PST-4SWTM	99	38.3	9.0	98.3	99	68.7
LSD VALUE	0	16.0	7.3	3.4	0	3.6
C.V. (%)	0	14.9	28.6	2.1	0	6.6

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

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

TABLE 17C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	IN1	MN1	NC1	VA1	MEAN
NAVIGATOR III (PPG-FRR 127)	99.0	78.3	14.7	99.0	99	78.0
SZ2	99.0	76.7	15.0	98.0	99	77.5
HARBOR MR (PPG-FRR 132)	99.0	76.7	13.3	99.0	99	77.4
HYPE (5Z5)	99.0	73.3	13.0	99.0	99	76.7
BYE	99.0	76.7	9.3	99.0	99	76.6
MESO (STB1)	99.0	75.0	11.0	99.0	99	76.6
PVF-HSY+	99.0	73.3	11.0	99.0	99	76.3
DLF-FRR-3128	98.0	70.0	13.3	99.0	99	75.9
PPG-FRR-134	99.0	65.0	10.7	99.0	99	74.5
FOXFIRE 2	98.7	53.3	16.0	99.0	99	73.2
KEVIN	99.0	51.7	16.7	99.0	99	73.1
CARDINAL II	99.0	40.7	11.3	99.0	99	69.8
RAD-FR64	99.0	48.3	14.0	82.3	99	68.5
BOREAL	98.0	16.0	14.3	85.7	99	62.6
LSD VALUE	1.1	20.9	9.5	8.4	0	4.9
C.V. (%)	0.7	20.8	45.2	5.4	0	9.2

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

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

TABLE 17D. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	IN1	MN1	NC1	VA1	MEAN
BEACON II (PPG-FL 128)	99	22.0	56.3	96.7	99	74.6
DAS-RHF	99	15.0	52.3	97.0	99	72.5
SWORD II (NAI-HAQ1+2)	99	2.3	68.0	94.0	99	72.5
PVF-PDB-2020	99	8.7	71.0	79.3	99	71.4
DLFPS-FL-3104	99	6.7	61.3	90.0	99	71.2
TENACIOUS (NAI-HTB2)	99	4.7	52.0	93.3	99	69.6
GLADIATOR	99	4.7	67.7	75.7	99	69.2
BAR FT 135	99	3.0	48.7	94.3	99	68.8
SPHD-20	99	4.0	50.7	86.0	99	67.7
RESOLUTE	99	11.7	42.0	71.7	99	64.7
BAR FT 132	99	3.0	40.3	71.7	99	62.6
LSD VALUE	0	11.6	14.1	18.3	0	5.2
C.V. (%)	0	92.8	15.8	13.2	0	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 17E. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	IN1	MN1	NC1	VA1	MEAN
QUATRO	99	2.0	63.0	55.0	99.0	63.6
BAR FO 131	99	7.3	14.7	96.7	99.0	63.3
BLUE HORNET (PPG-FO-102)	99	5.7	66.0	50.0	92.7	62.7
LSD VALUE	0	9.4	20.2	40.0	10.2	9.4
C.V. (%)	0	117.0	26.2	37.0	6.5	20.6

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

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

TABLE 17F. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	IA1	IN1	MN1	NC1	VA1	MEAN
BAR FRL 122	99	56.7	17.3	98.0	99	74.0
SEABREEZE GT	99	80.0	6.0	81.3	99	73.1
LSD VALUE	0	17.4	3.5	3.8	0	3.6
C.V. (%)	0	15.8	18.5	2.7	0	6.9

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

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

TABLE 18A. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	MI2	NC1	QE1	MEAN
PVF-PDB-2020	86.0	95.0	98.3	86.7	91.5
DLFPS-FRC-3105	96.3	99.0	99.0	70.0	91.1
DLFPS-FL-3104	80.7	99.0	99.0	80.0	89.7
BAR FRL 122	92.3	99.0	99.0	66.7	89.3
DA5-RHF	85.7	97.7	99.0	73.3	88.9
BAR FT 135	79.7	93.0	98.7	80.0	87.8
BEACON II (PPG-FL 128)	73.7	91.7	99.0	86.7	87.8
RADAR II (PPG-FRC 127)	88.0	99.0	99.0	63.3	87.3
HYPE (5Z5)	84.0	94.7	99.0	66.7	86.1
RESONANCE (NAI-CHU1)	78.7	99.0	99.0	66.7	85.8
PPG-FRR-134	84.3	93.0	99.0	66.7	85.8
SWORD II (NAI-HAQ1+2)	67.0	96.3	99.0	80.0	85.6
HARBOR MR (PPG-FRR 132)	86.3	96.3	99.0	60.0	85.4
MESO (STB1)	84.0	94.7	99.0	63.3	85.3
GLADIATOR	73.0	95.0	92.7	80.0	85.2
PVF-HSY+	85.3	96.3	99.0	60.0	85.2
NAVIGATOR III (PPG-FRR 127)	84.7	99.0	99.0	56.7	84.8
COMPASS II	77.0	99.0	99.0	63.3	84.6
BAR FRC 130	83.3	99.0	99.0	56.7	84.5
BYE	78.0	96.3	99.0	63.3	84.2
PVF-MVP-2020	71.0	99.0	99.0	66.7	83.9
JAMESTOWN VII	68.3	97.7	99.0	70.0	83.8
SEABREEZE GT	88.0	96.3	97.0	53.3	83.7
PPG-FRC-130	73.0	99.0	99.0	63.3	83.6
BAR FRC 123	64.7	99.0	99.0	70.0	83.2
BAR FT 132	72.7	91.7	98.3	70.0	83.2
RESOLUTE	70.3	96.3	96.0	70.0	83.2
CARDINAL II	79.7	91.7	99.0	60.0	82.6
SHADOW IV (PST-4SHAD)	75.7	95.0	99.0	60.0	82.4
PST-4SWTM	72.3	96.3	99.0	60.0	81.9
SPHD-20	59.0	93.3	98.3	76.7	81.8
BRITTANY 2	68.3	99.0	99.0	60.0	81.6
TENACIOUS (NAI-HTB2)	65.0	97.7	99.0	63.3	81.3
RAD-FC59	65.3	99.0	99.0	60.0	80.8
DLF-FRR-3128	78.3	91.7	99.0	53.3	80.6
KEVIN	73.3	90.0	99.0	60.0	80.6
BLUE HORNET (PPG-FO-102)	73.7	93.3	83.7	70.0	80.2
RAD-FR64	72.0	91.7	98.7	56.7	79.8
FOXFIRE 2	74.0	88.3	99.0	56.7	79.5
5Z2	80.0	95.0	99.0	43.3	79.3
QUATRO	68.7	88.3	73.0	83.3	78.3
BAR FO 131	64.3	91.7	99.0	56.7	77.9
BOREAL	68.0	80.0	97.7	43.3	72.3
LSD VALUE	19.0	5.2	10.2	20.9	7.6
C.V. (%)	15.4	3.4	6.5	19.8	11.3

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

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

TABLE 18B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	MI2	NC1	QE1	MEAN
DLFPS-FRC-3105	96.3	99.0	99	70.0	91.1
RADAR II (PPG-FRC 127)	88.0	99.0	99	63.3	87.3
RESONANCE (NAI-CHU1)	78.7	99.0	99	66.7	85.8
COMPASS II	77.0	99.0	99	63.3	84.6
BAR FRC 130	83.3	99.0	99	56.7	84.5
PVF-MVP-2020	71.0	99.0	99	66.7	83.9
JAMESTOWN VII	68.3	97.7	99	70.0	83.8
PPG-FRC-130	73.0	99.0	99	63.3	83.6
BAR FRC 123	64.7	99.0	99	70.0	83.2
SHADOW IV (PST-4SHAD)	75.7	95.0	99	60.0	82.4
PST-4SWTM	72.3	96.3	99	60.0	81.9
BRITTANY 2	68.3	99.0	99	60.0	81.6
RAD-FC59	65.3	99.0	99	60.0	80.8
LSD VALUE	19.0	1.5	0	25.2	7.9
C.V. (%)	15.6	0.9	0	24.6	11.7

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

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

TABLE 18C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	MI2	NC1	QE1	MEAN
HYPE (5Z5)	84.0	94.7	99.0	66.7	86.1
PPG-FRR-134	84.3	93.0	99.0	66.7	85.8
HARBOR MR (PPG-FRR 132)	86.3	96.3	99.0	60.0	85.4
MESO (STB1)	84.0	94.7	99.0	63.3	85.3
PVF-HSY+	85.3	96.3	99.0	60.0	85.2
NAVIGATOR III (PPG-FRR 127)	84.7	99.0	99.0	56.7	84.8
BYE	78.0	96.3	99.0	63.3	84.2
CARDINAL II	79.7	91.7	99.0	60.0	82.6
DLF-FRR-3128	78.3	91.7	99.0	53.3	80.6
KEVIN	73.3	90.0	99.0	60.0	80.6
RAD-FR64	72.0	91.7	98.7	56.7	79.8
FOXFIRE 2	74.0	88.3	99.0	56.7	79.5
5Z2	80.0	95.0	99.0	43.3	79.3
BOREAL	68.0	80.0	97.7	43.3	72.3
LSD VALUE	14.5	7.3	1.0	18.9	6.2
C.V. (%)	11.3	4.9	0.6	20.3	9.4

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 18D. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	MI2	NC1	QE1	MEAN
PVF-PDB-2020	86.0	95.0	98.3	86.7	91.5
DLFPS-FL-3104	80.7	99.0	99.0	80.0	89.7
DA5-RHF	85.7	97.7	99.0	73.3	88.9
BAR FT 135	79.7	93.0	98.7	80.0	87.8
BEACON II (PPG-FL 128)	73.7	91.7	99.0	86.7	87.8
SWORD II (NAI-HAQ1+2)	67.0	96.3	99.0	80.0	85.6
GLADIATOR	73.0	95.0	92.7	80.0	85.2
BAR FT 132	72.7	91.7	98.3	70.0	83.2
RESOLUTE	70.3	96.3	96.0	70.0	83.2
SPHD-20	59.0	93.3	98.3	76.7	81.8
TENACIOUS (NAI-HTB2)	65.0	97.7	99.0	63.3	81.3
LSD VALUE	23.5	4.2	6.0	17.3	7.5
C.V. (%)	19.7	2.7	3.8	13.9	10.9

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

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

TABLE 18E. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	MI2	NC1	QE1	MEAN
BLUE HORNET (PPG-FO-102)	73.7	93.3	83.7	70.0	80.2
QUATRO	68.7	88.3	73.0	83.3	78.3
BAR FO 131	64.3	91.7	99.0	56.7	77.9
LSD VALUE	23.7	8.0	36.7	20.1	12.2
C.V. (%)	21.4	5.5	26.8	17.8	19.2

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 18F. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	IA1	MI2	NC1	QE1	MEAN
BAR FRL 122	92.3	99.0	99.0	66.7	89.3
SEABREEZE GT	88.0	96.3	97.0	53.3	83.7
LSD VALUE	10.0	2.6	2.3	21.8	6.1
C.V. (%)	6.9	1.7	1.4	22.6	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 19A. PERCENT LIVING GROUND COVER (FALL) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/								
NAME	CT1	IA1	MI2	MN1	NC1	VA1	WA1	MEAN
NAVIGATOR III (PPG-FRR 127)	86.7	86.0	99.0	91.0	97.0	99.0	91.3	92.9
PVF-HSY+	86.7	85.0	97.7	92.7	93.3	99.0	91.3	92.2
RADAR II (PPG-FRC 127)	90.0	95.7	99.0	94.0	63.3	99.0	97.7	91.2
PVF-MVP-2020	86.7	88.3	99.0	94.0	70.0	99.0	99.0	90.9
JAMESTOWN VII	86.7	83.7	95.0	91.0	78.3	99.0	96.0	90.0
BYE	83.3	88.3	97.7	92.7	75.7	99.0	92.7	89.9
DLFPS-FRC-3105	90.0	93.7	99.0	93.3	55.0	99.0	97.3	89.6
COMPASS II	86.7	92.7	99.0	91.7	58.3	99.0	99.0	89.5
PPG-FRR-134	80.0	88.7	86.7	92.0	80.0	99.0	97.7	89.1
TENACIOUS (NAI-HTB2)	70.0	92.0	97.7	98.3	66.7	99.0	99.0	89.0
HARBOR MR (PPG-FRR 132)	80.0	89.7	90.0	89.7	75.0	99.0	96.0	88.5
SHADOW IV (PST-4SHAD)	76.7	95.0	94.7	87.0	78.3	99.0	88.0	88.4
BRITTANY 2	90.0	80.7	99.0	91.3	62.3	99.0	96.0	88.3
5Z2	83.3	90.7	85.0	94.7	65.0	99.0	98.3	88.0
DAS-RHF	66.7	93.0	96.3	94.3	70.7	99.0	95.0	87.9
RESONANCE (NAI-CHU1)	90.0	70.7	99.0	89.3	68.3	99.0	97.3	87.7
PVF-PDB-2020	76.7	97.3	94.7	98.0	55.0	99.0	89.0	87.1
HYPE (5Z5)	80.0	88.0	88.3	94.0	63.3	99.0	97.0	87.1
RESOLUTE	66.7	91.3	93.3	89.3	71.7	99.0	91.7	86.1
PPG-FRC-130	86.7	93.3	99.0	95.0	27.3	99.0	97.7	85.4
BAR FRC 130	83.3	94.3	99.0	91.7	31.7	99.0	97.7	85.2
RAD-FC59	83.3	79.0	99.0	96.3	43.3	99.0	95.0	85.0
BAR FRL 122	83.3	98.7	99.0	94.0	33.3	99.0	85.0	84.6
BAR FT 135	66.7	94.7	81.7	92.7	63.3	99.0	91.3	84.2
PST-4SWTM	76.7	85.3	91.7	93.3	45.0	99.0	98.3	84.2
MESO (STB1)	80.0	76.3	85.0	89.7	68.3	99.0	89.7	84.0
SWORD II (NAI-HAQ1+2)	63.3	88.7	93.3	85.7	60.0	99.0	94.7	83.5
BAR FRC 123	76.7	89.0	99.0	93.7	30.0	99.0	97.0	83.5
DLFPS-FL-3104	66.7	96.3	94.7	90.0	49.3	99.0	85.0	83.0
BAR FO 131	80.0	88.7	83.3	93.3	46.7	99.0	89.7	83.0
BEACON II (PPG-FL 128)	73.3	95.7	91.7	86.0	40.0	99.0	89.7	82.2
RAD-FR64	76.7	89.0	80.0	90.3	50.0	99.0	88.0	81.9
CARDINAL II	70.0	78.3	70.0	87.0	70.0	99.0	97.7	81.7
SPHD-20	70.0	89.0	85.0	98.0	43.3	99.0	86.7	81.6
GLADIATOR	66.7	88.3	95.0	98.7	26.7	99.0	86.3	80.1
BLUE HORNET (PPG-FO-102)	76.7	98.0	95.0	81.7	16.7	92.7	97.7	79.8
BAR FT 132	66.7	92.0	86.7	79.3	40.0	99.0	91.0	79.2
KEVIN	63.3	69.7	73.3	86.3	65.0	99.0	96.3	79.0
QUATRO	80.0	91.7	85.0	82.3	24.3	99.0	89.7	78.9
FOXFIRE 2	76.7	61.0	66.7	88.7	63.3	99.0	88.0	77.6
SEABREEZE GT	70.0	95.0	80.0	75.0	25.0	99.0	98.3	77.5
DLF-FRR-3128	66.7	74.7	73.3	86.3	27.7	99.0	86.3	73.4
BOREAL	60.0	68.7	70.0	76.3	31.7	99.0	93.0	71.2
LSD VALUE	9.9	12.8	11.1	17.8	30.7	2.7	12.5	6.1
C.V. (%)	8.0	9.1	7.6	12.2	34.7	1.7	8.3	11.8

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

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

TABLE 19B. PERCENT LIVING GROUND COVER (FALL) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/								
NAME	CT1	IA1	MI2	MN1	NC1	VA1	WA1	MEAN
RADAR II (PPG-FRC 127)	90.0	95.7	99.0	94.0	63.3	99	97.7	91.2
PVF-MVP-2020	86.7	88.3	99.0	94.0	70.0	99	99.0	90.9
JAMESTOWN VII	86.7	83.7	95.0	91.0	78.3	99	96.0	90.0
DLFPS-FRC-3105	90.0	93.7	99.0	93.3	55.0	99	97.3	89.6
COMPASS II	86.7	92.7	99.0	91.7	58.3	99	99.0	89.5
SHADOW IV (PST-4SHAD)	76.7	95.0	94.7	87.0	78.3	99	88.0	88.4
BRITTANY 2	90.0	80.7	99.0	91.3	62.3	99	96.0	88.3
RESONANCE (NAI-CHU1)	90.0	70.7	99.0	89.3	68.3	99	97.3	87.7
PPG-FRC-130	86.7	93.3	99.0	95.0	27.3	99	97.7	85.4
BAR FRC 130	83.3	94.3	99.0	91.7	31.7	99	97.7	85.2
RAD-FC59	83.3	79.0	99.0	96.3	43.3	99	95.0	85.0
PST-4SWTM	76.7	85.3	91.7	93.3	45.0	99	98.3	84.2
BAR FRC 123	76.7	89.0	99.0	93.7	30.0	99	97.0	83.5
LSD VALUE	7.7	13.1	2.4	10.8	33.8	0	6.0	5.6
C.V. (%)	5.7	9.3	1.5	7.3	38.4	0	3.9	10.5

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

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

TABLE 19C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/								
NAME	CT1	IA1	MI2	MN1	NC1	VA1	WA1	MEAN
NAVIGATOR III (PPG-FRR 127)	86.7	86.0	99.0	91.0	97.0	99	91.3	92.9
PVF-HSY+	86.7	85.0	97.7	92.7	93.3	99	91.3	92.2
BYE	83.3	88.3	97.7	92.7	75.7	99	92.7	89.9
PPG-FRR-134	80.0	88.7	86.7	92.0	80.0	99	97.7	89.1
HARBOR MR (PPG-FRR 132)	80.0	89.7	90.0	89.7	75.0	99	96.0	88.5
5Z2	83.3	90.7	85.0	94.7	65.0	99	98.3	88.0
HYPE (5Z5)	80.0	88.0	88.3	94.0	63.3	99	97.0	87.1
MESO (STB1)	80.0	76.3	85.0	89.7	68.3	99	89.7	84.0
RAD-FR64	76.7	89.0	80.0	90.3	50.0	99	88.0	81.9
CARDINAL II	70.0	78.3	70.0	87.0	70.0	99	97.7	81.7
KEVIN	63.3	69.7	73.3	86.3	65.0	99	96.3	79.0
FOXFIRE 2	76.7	61.0	66.7	88.7	63.3	99	88.0	77.6
DLF-FRR-3128	66.7	74.7	73.3	86.3	27.7	99	86.3	73.4
BOREAL	60.0	68.7	70.0	76.3	31.7	99	93.0	71.2
LSD VALUE	9.3	15.3	13.9	11.3	24.9	0	13.4	5.4
C.V. (%)	7.5	11.7	10.4	7.9	23.4	0	9.0	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 19D. PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

NAME	PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/							MEAN
	CT1	IA1	MI2	MN1	NC1	VA1	WA1	
TENACIOUS (NAI-HTB2)	70.0	92.0	97.7	98.3	66.7	99	99.0	89.0
DA5-RHF	66.7	93.0	96.3	94.3	70.7	99	95.0	87.9
PVF-PDB-2020	76.7	97.3	94.7	98.0	55.0	99	89.0	87.1
RESOLUTE	66.7	91.3	93.3	89.3	71.7	99	91.7	86.1
BAR FT 135	66.7	94.7	81.7	92.7	63.3	99	91.3	84.2
SWORD II (NAI-HAQ1+2)	63.3	88.7	93.3	85.7	60.0	99	94.7	83.5
DLFPS-FL-3104	66.7	96.3	94.7	90.0	49.3	99	85.0	83.0
BEACON II (PPG-FL 128)	73.3	95.7	91.7	86.0	40.0	99	89.7	82.2
SPHD-20	70.0	89.0	85.0	98.0	43.3	99	86.7	81.6
GLADIATOR	66.7	88.3	95.0	98.7	26.7	99	86.3	80.1
BAR FT 132	66.7	92.0	86.7	79.3	40.0	99	91.0	79.2
LSD VALUE	12.8	10.7	12.3	24.4	36.7	0	16.5	7.4
C.V. (%)	11.6	7.2	8.3	16.5	42.8	0	11.3	14.4

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

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

TABLE 19E. PERCENT LIVING GROUND COVER (FALL) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

NAME	PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/							MEAN
	CT1	IA1	MI2	MN1	NC1	VA1	WA1	
BAR FO 131	80.0	88.7	83.3	93.3	46.7	99.0	89.7	83.0
BLUE HORNET (PPG-FO-102)	76.7	98.0	95.0	81.7	16.7	92.7	97.7	79.8
QUATRO	80.0	91.7	85.0	82.3	24.3	99.0	89.7	78.9
LSD VALUE	10.7	8.2	13.4	32.7	22.4	10.2	12.7	6.7
C.V. (%)	8.5	5.5	9.5	23.7	47.7	6.5	8.5	13.7

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

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

TABLE 19F. PERCENT LIVING GROUND COVER (FALL) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

NAME	PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/							MEAN
	CT1	IA1	MI2	MN1	NC1	VA1	WA1	
BAR FRL 122	83.3	98.7	99.0	94.0	33.3	99	85.0	84.6
SEABREEZE GT	70.0	95.0	80.0	75.0	25.0	99	98.3	77.5
LSD VALUE	6.6	5.3	11.4	16.3	20.8	0	9.9	4.5
C.V. (%)	5.3	3.4	7.9	12.0	44.3	0	6.7	9.2

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

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

TABLE 20A.

DROUGHT TOLERANCE (WILTING) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
SWORD II (NAI-HAQ1+2)	8.0
DLFPS-FL-3104	7.7
PVF-PDB-2020	7.3
SPHD-20	7.3
TENACIOUS (NAI-HTB2)	7.3
BAR FT 135	7.0
BYE	7.0
RESOLUTE	7.0
BEACON II (PPG-FL 128)	6.7
HYPE (525)	6.7
PVF-HSY+	6.3
BAR FT 132	6.0
DLF-FRR-3128	6.0
PPG-FRR-134	6.0
RESONANCE (NAI-CHU1)	6.0
BAR FRL 122	5.7
BRITTANY 2	5.7
DA5-RHF	5.7
5Z2	5.3
BLUE HORNET (PPG-FO-102)	5.3
RAD-FR64	5.3
RADAR II (PPG-FRC 127)	5.3
BAR FRC 130	5.0
DLFPS-FRC-3105	5.0
HARBOR MR (PPG-FRR 132)	5.0
JAMESTOWN VII	5.0
KEVIN	5.0
NAVIGATOR III (PPG-FRR 127)	5.0
PPG-FRC-130	5.0
MESO (STB1)	4.7
PST-4SWTM	4.7
PVF-MVP-2020	4.7
RAD-FC59	4.7
SHADOW IV (PST-4SHAD)	4.3
BAR FRC 123	4.0
FOXFIRE 2	4.0
BAR FO 131	3.3
LSD VALUE	1.5
C.V. (%)	16.3

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 20B. DROUGHT TOLERANCE (WILTING) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
RESONANCE (NAI-CHU1)	6.0
BRITTANY 2	5.7
RADAR II (PPG-FRC 127)	5.3
BAR FRC 130	5.0
DLFPS-FRC-3105	5.0
JAMESTOWN VII	5.0
PPG-FRC-130	5.0
PST-4SWTM	4.7
PVF-MVP-2020	4.7
RAD-FC59	4.7
SHADOW IV (PST-4SHAD)	4.3
BAR FRC 123	4.0
LSD VALUE	1.6
C.V. (%)	20.2

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

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

TABLE 20C. DROUGHT TOLERANCE (WILTING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
BYE	7.0
HYPE (5Z5)	6.7
PVF-HSY+	6.3
DLF-FRR-3128	6.0
PPG-FRR-134	6.0
5Z2	5.3
RAD-FR64	5.3
HARBOR MR (PPG-FRR 132)	5.0
KEVIN	5.0
NAVIGATOR III (PPG-FRR 127)	5.0
MESO (STB1)	4.7
FOXFIRE 2	4.0
LSD VALUE	1.5
C.V. (%)	17.1

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 20D. DROUGHT TOLERANCE (WILTING) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
SWORD II (NAI-HAQ1+2)	8.0
DLFPS-FL-3104	7.7
PVF-PDB-2020	7.3
SPHD-20	7.3
TENACIOUS (NAI-HTB2)	7.3
BAR FT 135	7.0
RESOLUTE	7.0
BEACON II (PPG-FL 128)	6.7
BAR FT 132	6.0
DAS-RHF	5.7
LSD VALUE	1.3
C.V. (%)	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 20E. DROUGHT TOLERANCE (WILTING) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
BLUE HORNET (PPG-FO-102)	5.3
BAR FO 131	3.3
LSD VALUE	1.5
C.V. (%)	21.1

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

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

TABLE 20F. DROUGHT TOLERANCE (WILTING) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
BAR FRL 122	5.7
LSD VALUE	0.9
C.V. (%)	10.2

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 21A.

DROUGHT TOLERANCE (DORMANCY) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	WA1
BAR FRC 130	4.7
DA5-RHF	4.7
DLF-FRR-3128	4.7
FOXFIRE 2	4.7
HARBOR MR (PPG-FRR 132)	4.7
SHADOW IV (PST-4SHAD)	4.7
BEACON II (PPG-FL 128)	4.3
DLFPS-FRC-3105	4.3
JAMESTOWN VII	4.3
RADAR II (PPG-FRC 127)	4.3
RESONANCE (NAI-CHU1)	4.3
SZ2	4.0
BAR FO 131	4.0
BAR FT 135	4.0
BOREAL	4.0
KEVIN	4.0
PST-4SWTM	4.0
PVF-MVP-2020	4.0
PVF-PDB-2020	4.0
QUATRO	4.0
RAD-FR64	4.0
RESOLUTE	4.0
BAR FRL 122	3.7
BAR FT 132	3.7
BLUE HORNET (PPG-FO-102)	3.7
BRITTANY 2	3.7
COMPASS II	3.7
GLADIATOR	3.7
PVF-HSY+	3.7
SPHD-20	3.7
TENACIOUS (NAI-HTB2)	3.7
BAR FRC 123	3.3
BYE	3.3
HYPE (SZ5)	3.3
MESO (STB1)	3.3
NAVIGATOR III (PPG-FRR 127)	3.3
PPG-FRC-130	3.3
PPG-FRR-134	3.3
RAD-FC59	3.3
SEABREEZE GT	3.3
CARDINAL II	3.0
DLFPS-FL-3104	3.0
SWORD II (NAI-HAQ1+2)	3.0
LSD VALUE	1.5
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 21B. DROUGHT TOLERANCE (DORMANCY) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	WA1
BAR FRC 130	4.7
SHADOW IV (PST-4SHAD)	4.7
DLFPS-FRC-3105	4.3
JAMESTOWN VII	4.3
RADAR II (PPG-FRC 127)	4.3
RESONANCE (NAI-CHU1)	4.3
PST-4SWM	4.0
PVF-MVP-2020	4.0
BRITTANY 2	3.7
COMPASS II	3.7
BAR FRC 123	3.3
PPG-FRC-130	3.3
RAD-FC59	3.3
LSD VALUE	1.6
C.V. (%)	24.7

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

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

TABLE 21C. DROUGHT TOLERANCE (DORMANCY) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	WA1
DLF-FRR-3128	4.7
FOXFIRE 2	4.7
HARBOR MR (PPG-FRR 132)	4.7
5Z2	4.0
BOREAL	4.0
KEVIN	4.0
RAD-FR64	4.0
PVF-HSY+	3.7
BYE	3.3
HYPE (5Z5)	3.3
MESO (STB1)	3.3
NAVIGATOR III (PPG-FRR 127)	3.3
PPG-FRR-134	3.3
CARDINAL II	3.0
LSD VALUE	1.5
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 21D. DROUGHT TOLERANCE (DORMANCY) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	WA1
DA5-RHF	4.7
BEACON II (PPG-FL 128)	4.3
BAR FT 135	4.0
PVF-PDB-2020	4.0
RESOLUTE	4.0
BAR FT 132	3.7
GLADIATOR	3.7
SPHD-20	3.7
TENACIOUS (NAI-HTB2)	3.7
DLFPS-FL-3104	3.0
SWORD II (NAI-HAQ1+2)	3.0
LSD VALUE	1.4
C.V. (%)	22.5

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

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

TABLE 21E. DROUGHT TOLERANCE (DORMANCY) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	WA1
BAR FO 131	4.0
QUATRO	4.0
BLUE HORNET (PPG-FO-102)	3.7
LSD VALUE	1.7
C.V. (%)	27.1

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 21F. DROUGHT TOLERANCE (DORMANCY) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	WA1
BAR FRL 122	3.7
SEABREEZE GT	3.3
LSD VALUE	1.5
C.V. (%)	26.1

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 22A.

LEAF SPOT RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NJ2
BEACON II (PPG-FL 128)	7.7
DLFPS-FL-3104	7.3
PVF-PDB-2020	7.0
TENACIOUS (NAI-HTB2)	6.3
PVF-MVP-2020	6.0
RESOLUTE	6.0
SWORD II (NAI-HAQ1+2)	6.0
COMPASS II	5.7
DA5-RHF	5.3
PST-4SWTM	5.3
DLFPS-FRC-3105	4.7
GLADIATOR	4.7
PPG-FRC-130	4.7
RADAR II (PPG-FRC 127)	4.7
SHADOW IV (PST-4SHAD)	4.7
BRITTANY 2	4.3
PPG-FRR-134	4.3
PVF-HSY+	4.3
SPHD-20	4.3
BAR FRC 123	4.0
BAR FRL 122	4.0
BAR FT 132	4.0
BYE	4.0
JAMESTOWN VII	4.0
RESONANCE (NAI-CHU1)	4.0
BAR FT 135	3.7
DLF-FRR-3128	3.7
NAVIGATOR III (PPG-FRR 127)	3.7
BAR FRC 130	3.3
RAD-FC59	3.3
5Z2	3.0
HYPE (5Z5)	3.0
MESO (STB1)	3.0
QUATRO	3.0
SEABREEZE GT	3.0
BAR FO 131	2.7
HARBOR MR (PPG-FRR 132)	2.7
BLUE HORNET (PPG-FO-102)	2.3
CARDINAL II	2.3
FOXFIRE 2	2.3
KEVIN	2.0
BOREAL	1.7
RAD-FR64	1.7
LSD VALUE	1.9
C.V. (%)	27.9

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

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

TABLE 22B. LEAF SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NJ2
PVF-MVP-2020	6.0
COMPASS II	5.7
PST-4SWTM	5.3
DLFPS-FRC-3105	4.7
PPG-FRC-130	4.7
RADAR II (PPG-FRC 127)	4.7
SHADOW IV (PST-4SHAD)	4.7
BRITTANY 2	4.3
BAR FRC 123	4.0
JAMESTOWN VII	4.0
RESONANCE (NAI-CHU1)	4.0
BAR FRC 130	3.3
RAD-FC59	3.3
LSD VALUE	1.8
C.V. (%)	24.6

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

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

TABLE 22C. LEAF SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NJ2
PPG-FRR-134	4.3
PVF-HSY+	4.3
BYE	4.0
DLF-FRR-3128	3.7
NAVIGATOR III (PPG-FRR 127)	3.7
5Z2	3.0
HYPE (5Z5)	3.0
MESO (STB1)	3.0
HARBOR MR (PPG-FRR 132)	2.7
CARDINAL II	2.3
FOXFIRE 2	2.3
KEVIN	2.0
BOREAL	1.7
RAD-FR64	1.7
LSD VALUE	2.3
C.V. (%)	47.5

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 22D. LEAF SPOT RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NJ2
BEACON II (PPG-FL 128)	7.7
DLFPS-FL-3104	7.3
PVF-PDB-2020	7.0
TENACIOUS (NAI-HTB2)	6.3
RESOLUTE	6.0
SWORD II (NAI-HAQ1+2)	6.0
DAS-RHF	5.3
GLADIATOR	4.7
SPHD-20	4.3
BAR FT 132	4.0
BAR FT 135	3.7
LSD VALUE	1.5
C.V. (%)	16.3

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 22E. LEAF SPOT RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NJ2
QUATRO	3.0
BAR FO 131	2.7
BLUE HORNET (PPG-FO-102)	2.3
LSD VALUE	1.8
C.V. (%)	41.5

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 22F. LEAF SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NJ2
BAR FRL 122	4
SEABREEZE GT	3
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 23A.

DOLLAR SPOT RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	INI
SPHD-20	8.0
PST-4SWTM	7.7
BEACON II (PPG-FL 128)	7.0
BLUE HORNET (PPG-FO-102)	7.0
DA5-RHF	7.0
KEVIN	7.0
PPG-FRR-134	7.0
TENACIOUS (NAI-HTB2)	7.0
BAR FRC 123	6.7
DLF-FRR-3128	6.7
HARBOR MR (PPG-FRR 132)	6.7
PVF-HSY+	6.7
RAD-FC59	6.7
SHADOW IV (PST-4SHAD)	6.7
BAR FRL 122	6.3
COMPASS II	6.3
DLFPS-FRC-3105	6.3
FOXFIRE 2	6.3
PPG-FRC-130	6.3
PVF-MVP-2020	6.3
RADAR II (PPG-FRC 127)	6.3
BAR FRC 130	6.0
CARDINAL II	6.0
HYPE (5Z5)	6.0
MESO (STB1)	6.0
RESONANCE (NAI-CHU1)	6.0
BYE	5.7
SEABREEZE GT	5.7
JAMESTOWN VII	5.3
NAVIGATOR III (PPG-FRR 127)	5.3
RAD-FR64	5.3
5Z2	5.0
BRITTANY 2	5.0
LSD VALUE	1.9
C.V. (%)	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 23B.

DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IN1
PST-4SWTM	7.7
BAR FRC 123	6.7
RAD-FC59	6.7
SHADOW IV (PST-4SHAD)	6.7
COMPASS II	6.3
DLFPS-FRC-3105	6.3
PPG-FRC-130	6.3
PVF-MVP-2020	6.3
RADAR II (PPG-FRC 127)	6.3
BAR FRC 130	6.0
RESONANCE (NAI-CHU1)	6.0
JAMESTOWN VII	5.3
BRITTANY 2	5.0
LSD VALUE	1.9
C.V. (%)	18.2

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

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

TABLE 23C.

DOLLAR SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IN1
KEVIN	7.0
PPG-FRR-134	7.0
DLF-FRR-3128	6.7
HARBOR MR (PPG-FRR 132)	6.7
PVF-HSY+	6.7
FOXFIRE 2	6.3
CARDINAL II	6.0
HYPE (SZ5)	6.0
MESO (STB1)	6.0
BYE	5.7
NAVIGATOR III (PPG-FRR 127)	5.3
RAD-FR64	5.3
SZ2	5.0
LSD VALUE	1.6
C.V. (%)	16.5

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

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

TABLE 23D. DOLLAR SPOT RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IN1
SPHD-20	8
BEACON II (PPG-FL 128)	7
DA5-RHF	7
TENACIOUS (NAI-HTB2)	7
LSD VALUE	.
C.V. (%)	.

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

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

TABLE 23E. DOLLAR SPOT RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IN1
BLUE HORNET (PPG-FO-102)	7
LSD VALUE	.
C.V. (%)	.

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

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

TABLE 23F. DOLLAR SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	IN1
BAR FRL 122	6.3
SEABREEZE GT	5.7
LSD VALUE	0.9
C.V. (%)	9.6

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

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

TABLE 24A. BROWN PATCH (COOL TEMPERATURE) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
NAVIGATOR III (PPG-FRR 127)	6.0
PVF-HSY+	4.7
HARBOR MR (PPG-FRR 132)	4.3
PPG-FRR-134	4.3
DA5-RHF	4.0
BAR FT 135	3.7
BYE	3.7
DLFPS-FL-3104	3.7
JAMESTOWN VII	3.7
SHADOW IV (PST-4SHAD)	3.7
TENACIOUS (NAI-HTB2)	3.7
5Z2	3.3
BEACON II (PPG-FL 128)	3.3
BRITTANY 2	3.3
CARDINAL II	3.3
HYPE (5Z5)	3.3
MESO (STB1)	3.3
PVF-MVP-2020	3.3
PVF-PDB-2020	3.3
RADAR II (PPG-FRC 127)	3.3
RESOLUTE	3.3
RESONANCE (NAI-CHU1)	3.3
SWORD II (NAI-HAQ1+2)	3.3
BAR FT 132	3.0
COMPASS II	3.0
DLFPS-FRC-3105	3.0
FOXFIRE 2	3.0
KEVIN	3.0
SPHD-20	3.0
PST-4SWTM	2.7
RAD-FR64	2.7
BAR FO 131	2.3
BAR FRL 122	2.3
QUATRO	2.3
RAD-FC59	2.3
GLADIATOR	2.0
BAR FRC 123	1.7
BAR FRC 130	1.7
BLUE HORNET (PPG-FO-102)	1.7
BOREAL	1.7
DLF-FRR-3128	1.7
PPG-FRC-130	1.7
SEABREEZE GT	1.3
LSD VALUE	1.6
C.V. (%)	32.1

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

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

TABLE 24B. BROWN PATCH (COOL TEMPERATURE) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
JAMESTOWN VII	3.7
SHADOW IV (PST-4SHAD)	3.7
BRITTANY 2	3.3
PVF-MVP-2020	3.3
RADAR II (PPG-FRC 127)	3.3
RESONANCE (NAI-CHU1)	3.3
COMPASS II	3.0
DLFPS-FRC-3105	3.0
PST-4SWTM	2.7
RAD-FC59	2.3
BAR FRC 123	1.7
BAR FRC 130	1.7
PPG-FRC-130	1.7
LSD VALUE	1.4
C.V. (%)	30.6

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. BROWN PATCH (COOL TEMPERATURE) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
NAVIGATOR III (PPG-FRR 127)	6.0
PVF-HSY+	4.7
HARBOR MR (PPG-FRR 132)	4.3
PPG-FRR-134	4.3
BYE	3.7
5Z2	3.3
CARDINAL II	3.3
HYPE (5Z5)	3.3
MESO (STB1)	3.3
FOXFIRE 2	3.0
KEVIN	3.0
RAD-FR64	2.7
BOREAL	1.7
DLF-FRR-3128	1.7
LSD VALUE	1.5
C.V. (%)	27.6

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

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

TABLE 24D. BROWN PATCH (COOL TEMPERATURE) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
DA5-RHF	4.0
BAR FT 135	3.7
DLFPS-FL-3104	3.7
TENACIOUS (NAI-HTB2)	3.7
BEACON II (PPG-FL 128)	3.3
PVF-PDB-2020	3.3
RESOLUTE	3.3
SWORD II (NAI-HAQ1+2)	3.3
BAR FT 132	3.0
SPHD-20	3.0
GLADIATOR	2.0
LSD VALUE	2.0
C.V. (%)	38.0

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 24E. BROWN PATCH (COOL TEMPERATURE) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
BAR FO 131	2.3
QUATRO	2.3
BLUE HORNET (PPG-FO-102)	1.7
LSD VALUE	0.9
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 24F. BROWN PATCH (COOL TEMPERATURE) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
BAR FRL 122	2.3
SEABREEZE GT	1.3
LSD VALUE	0.9
C.V. (%)	31.5

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 25A. FALL COLOR (NOVEMBER) RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

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

NAME	WI1
DLFPS-FL-3104	7.7
GLADIATOR	7.7
SWORD II (NAI-HAQ1+2)	7.7
PVF-PDB-2020	7.3
QUATRO	7.3
PPG-FRC-130	7.0
RADAR II (PPG-FRC 127)	7.0
SPHD-20	7.0
BAR FT 132	6.7
BAR FT 135	6.7
TENACIOUS (NAI-HTB2)	6.7
BAR FRC 130	6.3
BAR FRL 122	6.3
BEACON II (PPG-FL 128)	6.3
BRITTANY 2	6.3
COMPASS II	6.3
DA5-RHF	6.3
HYPE (5Z5)	6.3
RESOLUTE	6.3
BAR FRC 123	6.0
BYE	6.0
CARDINAL II	6.0
DLFPS-FRC-3105	6.0
NAVIGATOR III (PPG-FRR 127)	6.0
PVF-HSY+	6.0
PVF-MVP-2020	6.0
RAD-FC59	6.0
BLUE HORNET (PPG-FO-102)	5.7
PPG-FRR-134	5.7
SHADOW IV (PST-4SHAD)	5.7
BAR FO 131	5.3
PST-4SWTM	5.3
RAD-FR64	5.3
RESONANCE (NAI-CHU1)	5.3
5Z2	5.0
HARBOR MR (PPG-FRR 132)	5.0
JAMESTOWN VII	5.0
MESO (STB1)	5.0
SEABREEZE GT	4.7
DLF-FRR-3128	4.3
FOXFIRE 2	4.0
BOREAL	3.7
KEVIN	3.7
LSD VALUE	1.4
C.V. (%)	14.3

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

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

TABLE 25B. FALL COLOR (NOVEMBER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	WI1
PPG-FRC-130	7.0
RADAR II (PPG-FRC 127)	7.0
BAR FRC 130	6.3
BRITTANY 2	6.3
COMPASS II	6.3
BAR FRC 123	6.0
DLFPS-FRC-3105	6.0
PVF-MVP-2020	6.0
RAD-FC59	6.0
SHADOW IV (PST-4SHAD)	5.7
PST-4SWTM	5.3
RESONANCE (NAI-CHU1)	5.3
JAMESTOWN VII	5.0
LSD VALUE	1.5
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 25C. FALL COLOR (NOVEMBER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	WI1
HYPE (5Z5)	6.3
BYE	6.0
CARDINAL II	6.0
NAVIGATOR III (PPG-FRR 127)	6.0
PVF-HSY+	6.0
PPG-FRR-134	5.7
RAD-FR64	5.3
5Z2	5.0
HARBOR MR (PPG-FRR 132)	5.0
MESO (STB1)	5.0
DLF-FRR-3128	4.3
FOXFIRE 2	4.0
BOREAL	3.7
KEVIN	3.7
LSD VALUE	1.2
C.V. (%)	14.7

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 25D. FALL COLOR (NOVEMBER) RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

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

NAME	WI1
DLFPS-FL-3104	7.7
GLADIATOR	7.7
SWORD II (NAI-HAQ1+2)	7.7
PVF-PDB-2020	7.3
SPHD-20	7.0
BAR FT 132	6.7
BAR FT 135	6.7
TENACIOUS (NAI-HTB2)	6.7
BEACON II (PPG-FL 128)	6.3
DA5-RHF	6.3
RESOLUTE	6.3
LSD VALUE	1.5
C.V. (%)	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 25E. FALL COLOR (NOVEMBER) RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

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

NAME	WI1
QUATRO	7.3
BLUE HORNET (PPG-FO-102)	5.7
BAR FO 131	5.3
LSD VALUE	0.9
C.V. (%)	9.4

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 25F. FALL COLOR (NOVEMBER) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	WI1
BAR FRL 122	6.3
SEABREEZE GT	4.7
LSD VALUE	0.9
C.V. (%)	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 26A.

POA ANNUA RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2023 DATA

POA ANNUA RATINGS 1-9; 9=NONE	2/
NAME	NC1
5Z2	9.0
BAR FO 131	9.0
BAR FRC 123	9.0
BAR FRC 130	9.0
BAR FRL 122	9.0
BEACON II (PPG-FL 128)	9.0
BRITTANY 2	9.0
BYE	9.0
CARDINAL II	9.0
COMPASS II	9.0
DA5-RHF	9.0
DLF-FRR-3128	9.0
DLFPS-FRC-3105	9.0
FOXFIRE 2	9.0
HARBOR MR (PPG-FRR 132)	9.0
HYPE (5Z5)	9.0
JAMESTOWN VII	9.0
KEVIN	9.0
MESO (STB1)	9.0
NAVIGATOR III (PPG-FRR 127)	9.0
PPG-FRC-130	9.0
PPG-FRR-134	9.0
PST-4SWTM	9.0
PVF-HSY+	9.0
PVF-MVP-2020	9.0
RADAR II (PPG-FRC 127)	9.0
RESONANCE (NAI-CHU1)	9.0
SHADOW IV (PST-4SHAD)	9.0
BAR FT 135	8.7
RAD-FC59	8.7
DLFPS-FL-3104	8.3
TENACIOUS (NAI-HTB2)	8.3
BOREAL	7.7
RAD-FR64	7.7
SPHD-20	7.7
SWORD II (NAI-HAQ1+2)	7.7
PVF-PDB-2020	7.3
SEABREEZE GT	7.3
GLADIATOR	7.0
RESOLUTE	6.7
BAR FT 132	6.3
QUATRO	5.0
BLUE HORNET (PPG-FO-102)	4.3
LSD VALUE	1.4
C.V. (%)	10.4

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

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

TABLE 26B.

POA ANNUA RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
BAR FRC 123	9.0
BAR FRC 130	9.0
BRITTANY 2	9.0
COMPASS II	9.0
DLFPS-FRC-3105	9.0
JAMESTOWN VII	9.0
PPG-FRC-130	9.0
PST-4SWTM	9.0
PVF-MVP-2020	9.0
RADAR II (PPG-FRC 127)	9.0
RESONANCE (NAI-CHU1)	9.0
SHADOW IV (PST-4SHAD)	9.0
RAD-FC59	8.7
LSD VALUE	0.3
C.V. (%)	1.8

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.

POA ANNUA RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
5Z2	9.0
BYE	9.0
CARDINAL II	9.0
DLF-FRR-3128	9.0
FOXFIRE 2	9.0
HARBOR MR (PPG-FRR 132)	9.0
HYPE (5Z5)	9.0
KEVIN	9.0
MESO (STB1)	9.0
NAVIGATOR III (PPG-FRR 127)	9.0
PPG-FRR-134	9.0
PVF-HSY+	9.0
BOREAL	7.7
RAD-FR64	7.7
LSD VALUE	0.8
C.V. (%)	5.8

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

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

TABLE 26D. POA ANNUA RATINGS OF HARD FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
BEACON II (PPG-FL 128)	9.0
DA5-RHF	9.0
BAR FT 135	8.7
DLFPS-FL-3104	8.3
TENACIOUS (NAI-HTB2)	8.3
SPHD-20	7.7
SWORD II (NAI-HAQ1+2)	7.7
PVF-PDB-2020	7.3
GLADIATOR	7.0
RESOLUTE	6.7
BAR FT 132	6.3
LSD VALUE	1.7
C.V. (%)	13.2

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

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

TABLE 26E. POA ANNUA RATINGS OF SHEEP FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
BAR FO 131	9.0
QUATRO	5.0
BLUE HORNET (PPG-FO-102)	4.3
LSD VALUE	3.8
C.V. (%)	38.2

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 26F. POA ANNUA RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/
2023 DATA

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

NAME	NC1
BAR FRL 122	9.0
SEABREEZE GT	7.3
LSD VALUE	0.7
C.V. (%)	5.0

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

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

TABLE 27A. BROWN PATCH (WARM TEMPERATURE) RATINGS OF FINELEAF FESCUE CULTIVARS
AT RALEIGH, NC 1/
2023 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/			
NAME	8/1	8/23	MEAN
NAVIGATOR III (PPG-FRR 127)	7.7	6.7	7.2
PVF-HSY+	7.3	6.0	6.7
PPG-FRR-134	5.7	6.0	5.8
HARBOR MR (PPG-FRR 132)	6.7	4.0	5.3
BYE	6.3	4.0	5.2
DLFPS-FRC-3105	6.0	4.0	5.0
MESO (STB1)	6.0	4.0	5.0
RADAR II (PPG-FRC 127)	5.3	4.3	4.8
DA5-RHF	4.7	4.3	4.5
HYPE (5Z5)	5.0	4.0	4.5
TENACIOUS (NAI-HTB2)	4.7	4.3	4.5
5Z2	5.0	3.7	4.3
BRITTANY 2	4.3	4.3	4.3
JAMESTOWN VII	4.7	4.0	4.3
SWORD II (NAI-HAQ1+2)	4.3	4.0	4.2
DLFPS-FL-3104	4.0	4.0	4.0
FOXFIRE 2	4.0	4.0	4.0
SHADOW IV (PST-4SHAD)	4.7	3.3	4.0
BEACON II (PPG-FL 128)	4.0	3.7	3.8
CARDINAL II	3.7	4.0	3.8
RESONANCE (NAI-CHU1)	4.3	3.3	3.8
BAR FT 135	3.7	3.7	3.7
COMPASS II	4.0	3.3	3.7
PVF-PDB-2020	3.7	3.7	3.7
PST-4SWTM	4.0	3.0	3.5
RESOLUTE	3.0	4.0	3.5
SPHD-20	3.3	3.7	3.5
KEVIN	3.3	3.3	3.3
PVF-MVP-2020	3.3	3.3	3.3
RAD-FC59	3.0	3.3	3.2
RAD-FR64	3.7	2.7	3.2
QUATRO	3.3	2.7	3.0
BAR FO 131	2.3	3.0	2.7
BAR FRL 122	2.3	3.0	2.7
BAR FT 132	2.7	2.7	2.7
PPG-FRC-130	3.7	1.7	2.7
DLF-FRR-3128	2.7	2.3	2.5
GLADIATOR	2.7	2.0	2.3
BAR FRC 130	2.3	2.0	2.2
BLUE HORNET (PPG-FO-102)	2.3	2.0	2.2
BAR FRC 123	2.3	1.7	2.0
SEABREEZE GT	2.3	1.7	2.0
BOREAL	2.0	1.7	1.8
LSD VALUE	1.9	2.4	1.9
C.V. (%)	28.7	35.4	29.4

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. BROWN PATCH (WARM TEMPERATURE) RATINGS OF CHEWINGS FESCUE CULTIVARS
AT RALEIGH, NC 1/
2023 DATA

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

NAME	8/1	8/23	MEAN
DLFPS-FRC-3105	6.0	4.0	5.0
RADAR II (PPG-FRC 127)	5.3	4.3	4.8
BRITTANY 2	4.3	4.3	4.3
JAMESTOWN VII	4.7	4.0	4.3
SHADOW IV (PST-4SHAD)	4.7	3.3	4.0
RESONANCE (NAI-CHU1)	4.3	3.3	3.8
COMPASS II	4.0	3.3	3.7
PST-4SWTM	4.0	3.0	3.5
PVF-MVP-2020	3.3	3.3	3.3
RAD-FC59	3.0	3.3	3.2
PPG-FRC-130	3.7	1.7	2.7
BAR FRC 130	2.3	2.0	2.2
BAR FRC 123	2.3	1.7	2.0
LSD VALUE	1.6	2.2	1.7
C.V. (%)	22.7	33.3	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 27C. BROWN PATCH (WARM TEMPERATURE) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
AT RALEIGH, NC 1/
2023 DATA

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

NAME	8/1	8/23	MEAN
NAVIGATOR III (PPG-FRR 127)	7.7	6.7	7.2
PVF-HSY+	7.3	6.0	6.7
PPG-FRR-134	5.7	6.0	5.8
HARBOR MR (PPG-FRR 132)	6.7	4.0	5.3
BYE	6.3	4.0	5.2
MESO (STB1)	6.0	4.0	5.0
HYPE (SZ5)	5.0	4.0	4.5
SZ2	5.0	3.7	4.3
FOXFIRE 2	4.0	4.0	4.0
CARDINAL II	3.7	4.0	3.8
KEVIN	3.3	3.3	3.3
RAD-FR64	3.7	2.7	3.2
DLF-FRR-3128	2.7	2.3	2.5
BOREAL	2.0	1.7	1.8
LSD VALUE	1.6	2.0	1.6
C.V. (%)	20.7	28.9	21.4

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 27D. BROWN PATCH (WARM TEMPERATURE) RATINGS OF HARD FESCUE CULTIVARS
AT RALEIGH, NC 1/
2023 DATA

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

NAME	8/1	8/23	MEAN
DA5-RHF	4.7	4.3	4.5
TENACIOUS (NAI-HTB2)	4.7	4.3	4.5
SWORD II (NAI-HAQ1+2)	4.3	4.0	4.2
DLFPS-FL-3104	4.0	4.0	4.0
BEACON II (PPG-FL 128)	4.0	3.7	3.8
BAR FT 135	3.7	3.7	3.7
PVF-PDB-2020	3.7	3.7	3.7
RESOLUTE	3.0	4.0	3.5
SPHD-20	3.3	3.7	3.5
BAR FT 132	2.7	2.7	2.7
GLADIATOR	2.7	2.0	2.3
LSD VALUE	2.8	3.5	3.0
C.V. (%)	30.7	35.8	31.4

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 27E. BROWN PATCH (WARM TEMPERATURE) RATINGS OF SHEEP FESCUE CULTIVARS
AT RALEIGH, NC 1/
2023 DATA

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

NAME	8/1	8/23	MEAN
QUATRO	3.3	2.7	3.0
BAR FO 131	2.3	3.0	2.7
BLUE HORNET (PPG-FO-102)	2.3	2.0	2.2
LSD VALUE	3.7	3.4	3.4
C.V. (%)	59.3	56.9	55.6

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 27F. BROWN PATCH (WARM TEMPERATURE) RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
AT RALEIGH, NC 1/
2023 DATA

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

NAME	8/1	8/23	MEAN
BAR FRL 122	2.3	3.0	2.7
SEABREEZE GT	2.3	1.7	2.0
LSD VALUE	3.7	3.4	3.4
C.V. (%)	30.3	46.3	38.1

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 28A.

SUMMER PATCH RATINGS OF FINELEAF FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2023 DATA

NAME	SUMMER PATCH RATINGS 1-9; 9=NO DISEASE 2/			MEAN
	7/3	8/11	8/29	
HARBOR MR (PPG-FRR 132)	7.0	7.3	5.3	6.6
HYPE (5Z5)	6.3	7.0	6.0	6.4
PPG-FRR-134	7.0	6.3	5.7	6.3
NAVIGATOR III (PPG-FRR 127)	6.3	5.7	5.0	5.7
BYE	6.0	6.0	4.3	5.4
PVF-HSY+	6.3	5.0	5.0	5.4
FOXFIRE 2	5.7	4.7	4.3	4.9
CARDINAL II	5.3	4.7	4.3	4.8
MESO (STB1)	5.3	5.0	3.7	4.7
BOREAL	5.7	4.3	3.7	4.6
DLF-FRR-3128	5.7	4.3	3.7	4.6
JAMESTOWN VII	5.3	4.7	3.7	4.6
PPG-FRC-130	5.7	5.0	3.0	4.6
5Z2	5.3	4.3	3.7	4.4
DLFPS-FRC-3105	5.0	5.3	3.0	4.4
KEVIN	5.0	4.7	3.7	4.4
COMPASS II	5.3	3.7	4.0	4.3
BAR FRL 122	4.7	4.0	3.7	4.1
BLUE HORNET (PPG-FO-102)	3.7	4.3	4.3	4.1
BRITTANY 2	4.7	4.0	3.7	4.1
PVF-MVP-2020	4.7	4.0	3.3	4.0
BAR FRC 123	4.7	3.3	3.7	3.9
QUATRO	4.7	3.0	4.0	3.9
RAD-FR64	4.7	4.0	3.0	3.9
BAR FO 131	4.7	3.3	3.0	3.7
RADAR II (PPG-FRC 127)	4.7	3.3	2.7	3.6
RESONANCE (NAI-CHU1)	5.0	3.0	2.7	3.6
RAD-FC59	4.7	3.3	2.3	3.4
SHADOW IV (PST-4SHAD)	4.3	3.3	2.7	3.4
BAR FRC 130	3.7	3.3	2.7	3.2
PST-4SWTM	4.0	3.3	2.3	3.2
BAR FT 135	3.3	3.0	3.0	3.1
SEABREEZE GT	3.3	2.7	1.7	2.6
TENACIOUS (NAI-HTB2)	2.7	2.3	2.0	2.3
PVF-PDB-2020	2.3	2.3	1.7	2.1
SPHD-20	2.0	2.0	2.3	2.1
BAR FT 132	1.7	2.3	2.0	2.0
DA5-RHF	2.7	1.7	1.7	2.0
SWORD II (NAI-HAQ1+2)	2.3	2.0	1.7	2.0
RESOLUTE	2.0	2.0	1.7	1.9
BEACON II (PPG-FL 128)	1.7	1.7	1.7	1.7
GLADIATOR	1.7	1.7	1.3	1.6
DLFPS-FL-3104	1.3	1.0	1.0	1.1
LSD VALUE	2.2	2.3	2.3	2.0
C.V. (%)	30.1	36.2	39.1	31.7

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

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

TABLE 28B. SUMMER PATCH RATINGS OF CHEWINGS FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2023 DATA

NAME	SUMMER PATCH RATINGS 1-9; 9=NO DISEASE 2/			
	7/3	8/11	8/29	MEAN
JAMESTOWN VII	5.3	4.7	3.7	4.6
PPG-FRC-130	5.7	5.0	3.0	4.6
DLFPS-FRC-3105	5.0	5.3	3.0	4.4
COMPASS II	5.3	3.7	4.0	4.3
BRITTANY 2	4.7	4.0	3.7	4.1
PVF-MVP-2020	4.7	4.0	3.3	4.0
BAR FRC 123	4.7	3.3	3.7	3.9
RADAR II (PPG-FRC 127)	4.7	3.3	2.7	3.6
RESONANCE (NAI-CHU1)	5.0	3.0	2.7	3.6
RAD-FC59	4.7	3.3	2.3	3.4
SHADOW IV (PST-4SHAD)	4.3	3.3	2.7	3.4
BAR FRC 130	3.7	3.3	2.7	3.2
PST-4SWTM	4.0	3.3	2.3	3.2
LSD VALUE	3.7	2.9	2.0	2.5
C.V. (%)	25.7	29.8	26.6	23.1

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 28C. SUMMER PATCH RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2023 DATA

NAME	SUMMER PATCH RATINGS 1-9; 9=NO DISEASE 2/			
	7/3	8/11	8/29	MEAN
HARBOR MR (PPG-FRR 132)	7.0	7.3	5.3	6.6
HYPE (5Z5)	6.3	7.0	6.0	6.4
PPG-FRR-134	7.0	6.3	5.7	6.3
NAVIGATOR III (PPG-FRR 127)	6.3	5.7	5.0	5.7
BYE	6.0	6.0	4.3	5.4
PVF-HSY+	6.3	5.0	5.0	5.4
FOXFIRE 2	5.7	4.7	4.3	4.9
CARDINAL II	5.3	4.7	4.3	4.8
MESO (STB1)	5.3	5.0	3.7	4.7
BOREAL	5.7	4.3	3.7	4.6
DLF-FRR-3128	5.7	4.3	3.7	4.6
5Z2	5.3	4.3	3.7	4.4
KEVIN	5.0	4.7	3.7	4.4
RAD-FR64	4.7	4.0	3.0	3.9
LSD VALUE	2.9	3.1	3.8	2.9
C.V. (%)	19.2	26.0	33.0	23.4

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

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

TABLE 28D. SUMMER PATCH RATINGS OF HARD FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2023 DATA

SUMMER PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	7/3	8/11	8/29	MEAN
BAR FT 135	3.3	3.0	3.0	3.1
TENACIOUS (NAI-HTB2)	2.7	2.3	2.0	2.3
PVF-PDB-2020	2.3	2.3	1.7	2.1
SPHD-20	2.0	2.0	2.3	2.1
BAR FT 132	1.7	2.3	2.0	2.0
DAS-RHF	2.7	1.7	1.7	2.0
SWORD II (NAI-HAQ1+2)	2.3	2.0	1.7	2.0
RESOLUTE	2.0	2.0	1.7	1.9
BEACON II (PPG-FL 128)	1.7	1.7	1.7	1.7
GLADIATOR	1.7	1.7	1.3	1.6
DLFPS-FL-3104	1.3	1.0	1.0	1.1
LSD VALUE	4.2	4.2	3.6	3.8
C.V. (%)	66.0	69.1	67.5	64.4

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

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

TABLE 28E. SUMMER PATCH RATINGS OF SHEEP FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2023 DATA

SUMMER PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	7/3	8/11	8/29	MEAN
BLUE HORNET (PPG-FO-102)	3.7	4.3	4.3	4.1
QUATRO	4.7	3.0	4.0	3.9
BAR FO 131	4.7	3.3	3.0	3.7
LSD VALUE	3.5	3.6	3.1	3.2
C.V. (%)	35.3	44.0	35.3	35.5

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 28F. SUMMER PATCH RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
AT NORTH BRUNSWICK, NJ 1/
2023 DATA

SUMMER PATCH RATINGS 1-9; 9=NO DISEASE 2/				
NAME	7/3	8/11	8/29	MEAN
BAR FRL 122	4.7	4.0	3.7	4.1
SEABREEZE GT	3.3	2.7	1.7	2.6
LSD VALUE	3.5	3.6	3.1	3.2
C.V. (%)	36.8	53.4	70.2	49.7

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR FINELEAF FESCUE CULTIVARS */
2023 DATA

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

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
5Z2	5.3	12.5
BAR FO 131	4.5	6.3
BAR FRC 123	5.3	6.3
BAR FRC 130	5.4	18.8
BAR FRL 122	5.3	12.5
BAR FT 132	4.9	12.5
BAR FT 135	5.3	43.8
BEACON II (PPG-FL 128)	5.5	37.5
BLUE HORNET (PPG-FO-102)	4.8	6.3
BOREAL	4.0	0.0
BRITTANY 2	5.6	37.5
BYE	5.7	31.3
CARDINAL II	5.0	12.5
COMPASS II	5.8	31.3
DA5-RHF	5.6	43.8
DLF-FRR-3128	4.9	0.0
DLFPS-FL-3104	5.4	56.3
DLFPS-FRC-3105	5.8	43.8
FOXFIRE 2	5.0	6.3
GLADIATOR	5.2	37.5
HARBOR MR (PPG-FRR 132)	5.3	12.5
HYPE (5Z5)	5.4	12.5
JAMESTOWN VII	5.3	0.0
KEVIN	4.8	6.3
MESO (STB1)	5.1	12.5
NAVIGATOR III (PPG-FRR 127)	5.8	43.8
PPG-FRC-130	5.8	50.0
PPG-FRR-134	5.6	18.8
PST-4SWTM	5.0	0.0
PVF-HSY+	5.7	25.0
PVF-MVP-2020	5.7	43.8
PVF-PDB-2020	5.7	56.3
QUATRO	4.6	0.0
RAD-FC59	5.2	0.0
RAD-FR64	4.6	0.0
RADAR II (PPG-FRC 127)	5.8	37.5
RESOLUTE	5.3	43.8
RESONANCE (NAI-CHU1)	5.7	43.8
SEABREEZE GT	4.6	6.3
SHADOW IV (PST-4SHAD)	5.1	6.3
SPHD-20	5.3	43.8
SWORD II (NAI-HAQ1+2)	5.5	56.3
TENACIOUS (NAI-HTB2)	5.5	43.8
LSD VALUE	0.2	
C.V. (%)	11.4	

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

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

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ MAXIMUM IN TOP 25%: THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.