

NATIONAL TURFGRASS EVALUATION PROGRAM

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

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

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

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CONTENTS

2008 National Fineleaf Fescue Test - 2009-13 data

LOCATIONS SUBMITTING DATA FOR 2009-13	1
NATIONAL FINELEAF FESCUE TEST, 2008 - Entries and Sponsors.....	2
Table A - 2004-07 Locations, Site Descriptions and Management Practices in the 2008 National Fineleaf Fescue Test.....	3
Table B - Locations and Data Collected in 2009-13.....	4
Table 1A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Four Locations in the U.S. for AMMI Group 1 (2009).....	7
Table 1B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Four Locations in the U.S. for AMMI Group 1 (2009).....	8
Table 1C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Four Locations in the U.S. for AMMI Group 1 (2009).....	9
Table 1D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Four Locations in the U.S. for AMMI Group 1 (2009).....	9
Table 2A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2009).....	10
Table 2B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2009).....	11
Table 2C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2009)...	12
Table 2D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2009)...	12
Table 3A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2009).....	13
Table 3B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2009).....	14
Table 3C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2009)...	15
Table 3D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2009)...	15
Table 4A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Two Locations in the U.S. for AMMI Group 4 (2009).....	16
Table 4B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Two Locations in the U.S. for AMMI Group 4 (2009).....	17

CONTENTS (continued)

Table 4C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Two Locations in the U.S. for AMMI Group 4 (2009).....	18
Table 4D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Two Locations in the U.S. for AMMI Group 4 (2009).....	18
Table 5A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at One Location in the U.S. for AMMI Group 5 (2009).....	19
Table 5B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at One Location in the U.S. for AMMI Group 5 (2009).....	20
Table 5C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at One Location in the U.S. for AMMI Group 5 (2009).....	21
Table 5D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at One Location in the U.S. for AMMI Group 5 (2009).....	21
Table 6A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 1 (2010).....	22
Table 6B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 1 (2010).....	23
Table 6C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 1 (2010)...	24
Table 6D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 1 (2010)...	24
Table 7A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2010).....	25
Table 7B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2010).....	26
Table 7C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2010)...	27
Table 7D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2010)...	27
Table 8A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2010).....	28
Table 8B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2010).....	29
Table 8C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2010)...	30
Table 8D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2010)...	30

CONTENTS (continued)

Table 9A - Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 4 (2010).....	31
Table 9B - Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 4 (2010).....	32
Table 9C - Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 4 (2010)....	33
Table 9D - Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 4 (2010)....	33
Table 10A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Five Locations in the U.S. for AMMI Group 1 (2011).....	34
Table 10B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Five Locations in the U.S. for AMMI Group 1 (2011).....	35
Table 10C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Five Locations in the U.S. for AMMI Group 1 (2011)....	36
Table 10D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Five Locations in the U.S. for AMMI Group 1 (2011)....	36
Table 11A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2011).....	37
Table 11B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2011).....	38
Table 11C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2011)....	39
Table 11D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 2 (2011)....	39
Table 12A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2011).....	40
Table 12B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2011).....	41
Table 12C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2011)....	42
Table 12D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown at Three Locations in the U.S. for AMMI Group 3 (2011)....	42
Table 13A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2012).....	43
Table 13B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2012).....	44

CONTENTS (continued)

Table 13C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2012).....	45
Table 13D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2012).....	45
Table 14A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2012).....	46
Table 14B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2012).....	47
Table 14C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2012).....	48
Table 14D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2012).....	48
Table 15A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 3 (2012).....	49
Table 15B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 3 (2012).....	50
Table 15C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 3 (2012).....	51
Table 15D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 3 (2012).....	51
Table 16A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2013).....	52
Table 16B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2013).....	53
Table 16C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2013).....	54
Table 16D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 1 (2013).....	54
Table 17A- Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2013).....	55
Table 17B- Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2013).....	56
Table 17C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2013).....	57
Table 17D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown in Location Performance Index (LPI) Group 2 (2013).....	57

CONTENTS (continued)

Table 18A-	Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown under Shade at Carbondale, IL.....	58
Table 18B-	Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown under Shade at Carbondale, IL.....	59
Table 18C-	Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Shade at Carbondale, IL.....	60
Table 18D-	Mean Turfgrass Quality and Other Ratings of Hard and Sheep Fescue Cultivars Grown under Shade at Carbondale, IL.....	60
Table 19A-	Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown under Shade at Brookings, SD.....	61
Table 19B-	Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown under Shade at Brookings, SD.....	62
Table 19C-	Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Shade at Brookings, SD.....	63
Table 19D-	Mean Turfgrass Quality and Other Ratings of Hard and Sheep Fescue Cultivars Grown under Shade at Brookings, SD.....	63
Table 20A-	Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....	64
Table 20B-	Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....	65
Table 20C-	Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....	66
Table 20D-	Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown under Traffic Stress at St. Paul, MN.....	66
Table 21A-	Mean Turfgrass Quality and Other Ratings of Fineleaf Fescue Cultivars Grown under Traffic Stress at Madison, WI.....	67
Table 21B-	Mean Turfgrass Quality and Other Ratings of Chewings Fescue Cultivars Grown under Traffic Stress at Madison, WI.....	68
Table 21C-	Mean Turfgrass Quality and Other Ratings of Strong Creeping Red Fescue Cultivars Grown under Traffic Stress at Madison, WI.....	69
Table 21D-	Mean Turfgrass Quality and Other Ratings of Hard Fescue Cultivars Grown under Traffic Stress at Madison, WI.....	69
Table 22A-	Mean Turfgrass Quality Ratings of Fineleaf Fescue Cultivars Grown Using Recycled Water at Palo Alto, CA.....	70
Table 22B-	Mean Turfgrass Quality Ratings of Chewings Fescue Cultivars Grown Using Recycled Water at Palo Alto, CA.....	71

CONTENTS (continued)

Table 22C- Mean Turfgrass Quality Ratings of Strong Creeping Red Fescue Cultivars Grown Using Recycled Water at Palo Alto, CA.....	72
Table 22D- Mean Turfgrass Quality Ratings of Hard Fescue Cultivars Grown Using Recycled Water at Palo Alto, CA.....	72
Table 23A- Genetic Color Ratings of Fineleaf Fescue Cultivars.....	73
Table 23B- Genetic Color Ratings of Chewings Fescue Cultivars.....	74
Table 23C- Genetic Color Ratings of Strong Creeping Red Fescue Cultivars.....	75
Table 23D- Genetic Color Ratings of Hard Fescue Cultivars.....	75
Table 24A- Spring Greenup Ratings of Fineleaf Fescue Cultivars.....	76
Table 24B- Spring Greenup Ratings of Chewings Fescue Cultivars.....	77
Table 24C- Spring Greenup Ratings of Strong Creeping Red Fescue Cultivars.....	78
Table 24D- Spring Greenup Ratings of Hard Fescue Cultivars.....	78
Table 25A- Leaf Texture Ratings of Fineleaf Fescue Cultivars.....	79
Table 25B- Leaf Texture Ratings of Chewings Fescue Cultivars.....	80
Table 25C- Leaf Texture Ratings of Strong Creeping Red Fescue Cultivars.....	81
Table 25D- Leaf Texture Ratings of Hard Fescue Cultivars.....	81
Table 26A- Seedling Vigor Ratings of Fineleaf Fescue Cultivars.....	82
Table 26B- Seedling Vigor Ratings of Chewings Fescue Cultivars.....	83
Table 26C- Seedling Vigor Ratings of Strong Creeping Red Fescue Cultivars.....	84
Table 26D- Seedling Vigor Ratings of Hard Fescue Cultivars.....	84
Table 27A- Spring Density Ratings of Fineleaf Fescue Cultivars.....	85
Table 27B- Spring Density Ratings of Chewings Fescue Cultivars.....	86
Table 27C- Spring Density Ratings of Strong Creeping Red Fescue Cultivars.....	87
Table 27D- Spring Density Ratings of Hard Fescue Cultivars.....	87
Table 28A- Summer Density Ratings of Fineleaf Fescue Cultivars.....	88
Table 28B- Summer Density Ratings of Chewings Fescue Cultivars.....	89
Table 28C- Summer Density Ratings of Strong Creeping Red Fescue Cultivars.....	90
Table 28D- Summer Density Ratings of Hard Fescue Cultivars.....	90

CONTENTS (continued)

Table 29A-	Fall Density Ratings of Fineleaf Fescue Cultivars.....	91
Table 29B-	Fall Density Ratings of Chewings Fescue Cultivars.....	91
Table 29C-	Fall Density Ratings of Strong Creeping Red Fescue Cultivars.....	93
Table 29D-	Fall Density Ratings of Hard Fescue Cultivars.....	93
Table 30A-	Percent Living Ground Cover (Spring) Ratings of Fineleaf Fescue Cultivars.....	94
Table 30B-	Percent Living Ground Cover (Spring) Ratings of Chewings Fescue Cultivars.....	95
Table 30C-	Percent Living Ground Cover (Spring) Ratings of Strong Creeping Red Fescue Cultivars.....	96
Table 30D-	Percent Living Ground Cover (Spring) Ratings of Hard Fescue Cultivars.....	96
Table 31A-	Percent Living Ground Cover (Summer) Ratings of Fineleaf Fescue Cultivars.....	97
Table 31B-	Percent Living Ground Cover (Summer) Ratings of Chewings Fescue Cultivars.....	98
Table 31C-	Percent Living Ground Cover (Summer) Ratings of Strong Creeping Red Fescue Cultivars.....	99
Table 31D-	Percent Living Ground Cover (Summer) Ratings of Hard Fescue Cultivars.....	99
Table 32A-	Percent Living Ground Cover (Fall) Ratings of Fineleaf Fescue Cultivars.....	100
Table 32B-	Percent Living Ground Cover (Fall) Ratings of Chewings Fescue Cultivars.....	101
Table 32C-	Percent Living Ground Cover (Fall) Ratings of Strong Creeping Red Fescue Cultivars.....	102
Table 32D-	Percent Living Ground Cover (Fall) Ratings of Hard Fescue Cultivars.....	102
Table 33A-	Winter Color Ratings of Fineleaf Fescue Cultivars.....	103
Table 33B-	Winter Color Ratings of Chewings Fescue Cultivars.....	104
Table 33C-	Winter Color Ratings of Strong Creeping Red Fescue Cultivars.....	105
Table 33D-	Winter Color Ratings of Hard Fescue Cultivars.....	105
Table 34A-	Percent Winter Kill Ratings of Fineleaf Fescue Cultivars.....	106

CONTENTS (continued)

Table 34B- Percent Winter Kill Ratings of Chewings Fescue Cultivars.....	107
Table 34C- Percent Winter Kill Ratings of Strong Creeping Red Fescue Cultivars.....	108
Table 34D- Percent Winter Kill Ratings of Hard Fescue Cultivars.....	108
Table 35A- Drought Tolerance (Dormancy) Ratings of Fineleaf Fescue Cultivars.....	109
Table 35B- Drought Tolerance (Dormancy) Ratings of Chewings Fescue Cultivars.....	110
Table 35C- Drought Tolerance (Dormancy) Ratings of Strong Creeping Red Fescue Cultivars.....	111
Table 35D- Drought Tolerance (Dormancy) Ratings of Hard Fescue Cultivars.....	111
Table 36A- Dollar Spot Ratings of Fineleaf Fescue Cultivars.....	112
Table 36B- Dollar Spot Ratings of Chewings Fescue Cultivars.....	113
Table 36C- Dollar Spot Ratings of Strong Creeping Red Fescue Cultivars.....	114
Table 36D- Dollar Spot Ratings of Hard Fescue Cultivars.....	114
Table 37A- Red Thread Ratings of Fineleaf Fescue Cultivars.....	115
Table 37B- Red Thread Ratings of Chewings Fescue Cultivars.....	116
Table 37C- Red Thread Ratings of Strong Creeping Red Fescue Cultivars.....	117
Table 37D- Red Thread Ratings of Hard Fescue Cultivars.....	117
Table 38A- Brown Patch (Warm Temperature) Ratings of Fineleaf Fescue Cultivars.....	118
Table 38B- Brown Patch (Warm Temperature) Ratings of Chewings Fescue Cultivars.....	119
Table 38C- Brown Patch (Warm Temperature) Ratings of Strong Creeping Red Fescue Cultivars.....	120
Table 38D- Brown Patch (Warm Temperature) Ratings of Hard Fescue Cultivars.....	120
Table 39A- Pythium Blight Ratings of Fineleaf Fescue Cultivars.....	121
Table 39B- Pythium Blight Ratings of Chewings Fescue Cultivars.....	122
Table 39C- Pythium Blight Ratings of Strong Creeping Red Fescue Cultivars.....	123
Table 39D- Pythium Blight Ratings of Hard Fescue Cultivars.....	123
Table 40A- Pink Patch Ratings of Fineleaf Fescue Cultivars.....	124
Table 40B- Pink Patch Ratings of Chewings Fescue Cultivars.....	125
Table 40C- Pink Patch Ratings of Strong Creeping Red Fescue Cultivars.....	126

CONTENTS (continued)

Table 40D- Pink Patch Ratings of Hard Fescue Cultivars.....	126
Table 41A- Fall Color (November) Ratings of Fineleaf Fescue Cultivars.....	127
Table 41B- Fall Color (November) Ratings of Chewings Fescue Cultivars.....	128
Table 41C- Fall Color (November) Ratings of Strong Creeping Red Fescue Cultivars...	129
Table 41D- Fall Color (November) Ratings of Hard Fescue Cultivars.....	129
Table 42A- Fall Color (December) Ratings of Fineleaf Fescue Cultivars.....	130
Table 42B- Fall Color (December) Ratings of Chewings Fescue Cultivars.....	131
Table 42C- Fall Color (December) Ratings of Strong Creeping Red Fescue Cultivars...	132
Table 42D- Fall Color (December) Ratings of Hard Fescue Cultivars.....	132
Table 43A- Poa Annua Ratings of Fineleaf Fescue Cultivars.....	133
Table 43B- Poa Annua Ratings of Chewings Fescue Cultivars.....	134
Table 43C- Poa Annua Ratings of Strong Creeping Red Fescue Cultivars.....	135
Table 43D- Poa Annua Ratings of Hard Fescue Cultivars.....	135
Table 44A- Mowing Quality Ratings of Fineleaf Fescue Cultivars.....	136
Table 44B- Mowing Quality Ratings of Chewings Fescue Cultivars.....	137
Table 44C- Mowing Quality Ratings of Strong Creeping Red Fescue Cultivars.....	138
Table 44D- Mowing Quality Ratings of Hard Fescue Cultivars.....	138
Table 45A- Percent Establishment Ratings of Fineleaf Fescue Cultivars.....	139
Table 45B- Percent Establishment Ratings of Chewings Fescue Cultivars.....	140
Table 45C- Percent Establishment Ratings of Strong Creeping Red Fescue Cultivars...	141
Table 45D- Percent Establishment Ratings of Hard Fescue Cultivars.....	141
Table 46A- Drought Stress Ratings of Fineleaf Fescue Cultivars.....	142
Table 46B- Drought Stress Ratings of Chewings Fescue Cultivars.....	143
Table 46C- Drought Stress Ratings of Strong Creeping Red Fescue Cultivars.....	144
Table 46D- Drought Stress Ratings of Hard Fescue Cultivars.....	144
Table 47A- Summer Stress Ratings of Fineleaf Fescue Cultivars.....	145
Table 47B- Summer Stress Ratings of Chewings Fescue Cultivars.....	146

CONTENTS (continued)

Table 47C- Summer Stress Ratings of Strong Creeping Red Fescue Cultivars.....	147
Table 47D- Summer Stress Ratings of Hard Fescue Cultivars.....	147
Table 48A- Percent Annual Grass Ratings of Fineleaf Fescue Cultivars.....	148
Table 48B- Percent Annual Grass Ratings of Chewings Fescue Cultivars.....	189
Table 48C- Percent Annual Grass Ratings of Strong Creeping Red Fescue Cultivars....	150
Table 48D- Percent Annual Grass Ratings of Hard Fescue Cultivars.....	150
Table 49A- Percent Poa Annua Ratings of Fineleaf Fescue Cultivars.....	151
Table 49B- Percent Poa Annua Ratings of Chewings Fescue Cultivars.....	152
Table 49C- Percent Poa Annua Ratings of Strong Creeping Red Fescue Cultivars.....	153
Table 49D- Percent Poa Annua Ratings of Hard Fescue Cultivars.....	153
Table 50A- Winter Injury Ratings of Fineleaf Fescue Cultivars.....	154
Table 50B- Winter Injury Ratings of Chewings Fescue Cultivars.....	155
Table 50C- Winter Injury Ratings of Strong Creeping Red Fescue Cultivars.....	156
Table 50D- Winter Injury Ratings of Hard Fescue Cultivars.....	156
Table 51A- Crabgrass Ratings of Fineleaf Fescue Cultivars.....	157
Table 51B- Crabgrass Ratings of Chewings Fescue Cultivars.....	158
Table 51C- Crabgrass Ratings of Strong Creeping Red Fescue Cultivars.....	159
Table 51D- Crabgrass Ratings of Hard Fescue Cultivars.....	159
Table 52A- Winter Density Ratings of Fineleaf Fescue Cultivars.....	160
Table 52B- Winter Density Ratings of Chewings Fescue Cultivars.....	161
Table 52C- Winter Density Ratings of Strong Creeping Red Fescue Cultivars.....	162
Table 52D- Winter Density Ratings of Hard Fescue Cultivars.....	162
Table 53A- Percent Establishment Ratings of Fineleaf Fescue Cultivars at Kingston, RI.....	163
Table 53B- Percent Establishment Ratings of Chewings Fescue Cultivars at Kingston, RI.....	164
Table 53C- Percent Establishment Ratings of Strong Creeping Red Cultivars at Kingston, RI.....	165

Table 53D- Percent Establishment Ratings of Hard Fescue Cultivars at Kingston, RI.....	165
Table 54A- Percent Establishment Ratings of Fineleaf Fescue Cultivars at Blacksburg, VA.....	166
Table 54B- Percent Establishment Ratings of Chewings Fescue Cultivars at Blacksburg, VA.....	167
Table 54C- Percent Establishment Ratings of Strong Creeping Red Fescue Cultivars at Blacksburg, VA.....	168
Table 54D- Percent Establishment Ratings of Hard Fescue Cultivars at Blacksburg, VA.....	168
Table 55A- Percent Establishment Ratings of Fineleaf Fescue Cultivars at Puyallup, WA.....	169
Table 55B- Percent Establishment Ratings of Chewings Fescue Cultivars at Puyallup, WA.....	170
Table 55C- Percent Establishment Ratings of Strong Creeping Red Fescue Cultivars at Puyallup, WA.....	171
Table 55D- Percent Establishment Ratings of Hard Fescue Cultivars at Puyallup, WA.....	171
Table 56A- Red Thread Ratings of Fineleaf Fescue Cultivars at Puyallup, WA.....	172
Table 56B- Red Thread Ratings of Chewings Fescue Cultivars at Puyallup, WA.....	173
Table 56C- Red Thread Ratings of Strong Creeping Red Fescue Cultivars at Puyallup, WA.....	174
Table 56D- Red Thread Ratings of Hard Fescue Cultivars at Puyallup, WA.....	174

A Guide to NTEP Turfgrass Ratings

Introduction

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

General Considerations

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

Turfgrass Quality

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

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2002 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

Other Ratings

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

2008 NATIONAL FINELEAF FESCUE TEST

LOCATIONS SUBMITTING DATA FOR 2009-13

<u>State</u>	<u>Location</u>	<u>Code</u>
California	San Luis Obispo	CA1
California	Palo Alto (Recycled Water)	CA8
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Maryland	College Park	MD1
Minnesota	St. Paul	MN1
Minnesota	St. Paul (Traffic)	MN2
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
New York	Ithaca	NY1
Pennsylvania	University Park	PA1
Rhode Island	Kingston	RI1
South Dakota	Brookings (Shade)	SD1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Puyallup	WA3
Wisconsin	Madison (Traffic)	WI1

2008 NATIONAL FINELEAF FESCUE TEST

Entries and Sponsors

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

* **COMMERCIALY AVAILABLE IN THE USA IN 2014.**

TABLE A. 2009-13 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
 Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP
 THE 2008 NATIONAL FINELEAF FESCUE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA1	SILTY CLAY LOAM	7.1-7.5	61-150	501+	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
CA8	LOAM	6.6-7.0	61-150	0-150	3.1-4.0	FULL SUN	4.1+	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	1.1-2.0	FULL SUN	2.6-3.0	NO IRRIGATION
IL2	SILTY CLAY LOAM	6.1-6.5	0-60	241-375	1.1-2.0	UNIFORM SHADE	2.1-2.5	NO IRRIGATION
MD1	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
MN1	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MN2	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
NE1	SILTY CLAY AND CLAY	6.6-7.0	0-60	501+	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NJ2	SANDY LOAM	6.6-7.0	271-450	151-240	0.0-1.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NY1	SANDY LOAM	6.1-6.5	151-270	241-375	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
PA1	LOAM	6.1-6.5	61-150	151-240	1.1-2.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
RI1	SILT LOAM AND SILT	-	-	-	1.1-2.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
SD1	-	-	-	-	-	DENSE SHADE	2.1-2.5	ONLY DURING SEVERE STRESS
UT1	SILT LOAM AND SILT	7.1-7.5	0-60	0-150	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	0-150	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
WA3	SAND	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
WI1	SILT LOAM AND SILT	7.1-7.5	0-60	241-375	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY

TABLE B. LOCATIONS AND DATA COLLECTED IN 2009-13

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
CA1	X	X	X	X	X	X	X	X	X	X	X	X	X		
CA8	X	X	X	X	X	X	X	X	X	X	X	X			
IL1				X	X	X	X	X	X	X			X	X	
IL2			X	X	X	X	X	X	X	X	X	X	X	X	
MD1				X	X	X	X	X	X	X	X		X		
MN1				X	X	X	X	X	X	X			X	X	
MN2				X	X	X	X	X	X	X			X	X	
NE1				X	X	X	X	X	X	X	X		X	X	
NJ2				X	X	X	X	X	X	X	X		X	X	
NY1					X	X	X	X	X	X				X	
PA1				X	X	X	X	X	X	X	X		X	X	
RI1				X	X	X	X	X	X	X	X		X	X	
SD1					X	X	X	X	X	X			X		
UT1				X	X	X	X	X	X	X			X	X	
VA1		X	X	X	X	X	X	X	X	X	X		X		X
WA3	X	X	X	X	X	X	X	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 2009-13

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	DROUGHT TOLERANCE DORMANCY	DOLLAR SPOT	RED THREAD	BROWN PATCH WARM TEMP.	PYTHIUM BLIGHT	PINK PATCH	FALL COLOR NOVEMBER	FALL COLOR DECEMBER
CA1						X	X										
CA8																	
IL1						X	X										
IL2	X				X	X	X										
MD1		X			X							X					
MN1					X	X	X		X								
MN2					X	X	X		X								
NE1		X	X	X		X											
NJ2							X				X	X			X		
NY1	X											X					
PA1	X						X				X	X		X			
RI1		X	X		X	X	X			X	X	X					
SD1						X											
UT1						X											
VA1		X			X							X	X				
WA3	X	X	X	X	X	X		X				X				X	
WI1					X	X	X										X

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2009-13

LOCATION	POA ANNUA	MOWING QUALITY	PERCENT ESTABLISH- MENTS	DROUGHT STRESS	SUMMER STRESS	PERCENT ANNUAL GRASS	PERCENT POA ANNUA	WINTER INJURY	CRABGRASS RATINGS	WINTER DENSITY	SPR_09	PERCENT SUM_09	ESTTABLISHMENT 6-WKS	10-WKS	RATINGS SUM_08	FAL_08
CA1			X													
CA8																
IL1			X													
IL2																
MD1				X	X	X	X									
MN1			X					X								
MN2																
NE1																
NJ2			X													
NY1																
PA1																
RI1	X								X		X	X				
SD1			X													
UT1			X													
VA1													X	X		
* WA3		X								X					X	X
* WI1			X													

* MORE TRAFFIC DATA AT "WI1" IN TABLE 21 AND MORE RED THREAD DATA AT "WA3" IN TABLE 56.

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

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

NAME	NJ1	MD1	NY1	MN1	MEAN
* FAIRMONT (TCD)	5.5	5.3	7.2	7.0	6.2
* RADAR (MVS-FRC-101)	5.5	5.2	7.0	7.0	6.1
* LONGFELLOW 3 (IS-FRC-33)	5.4	5.2	7.0	6.9	6.1
* BEACON (Z6300)	5.5	5.2	6.8	6.7	6.1
* SPARTAN II	5.4	5.1	6.8	6.6	6.0
* GOTHAM	5.4	5.2	6.8	6.4	5.9
* INTRIGUE 2	5.2	5.0	7.0	6.5	5.9
PSG-5RM	5.2	5.1	7.1	6.3	5.9
CHANTILLY (IS-FRR-62)	5.2	5.0	7.0	6.5	5.9
PSG 50C3	5.2	5.0	7.0	6.5	5.9
* TREAZURE II	5.2	4.9	6.8	6.5	5.9
ROSECITY (IS-FRR-51)	5.1	5.0	7.1	6.3	5.9
PST-4HES	5.3	5.0	6.7	6.4	5.8
* LACROSSE	5.1	5.0	6.8	6.4	5.8
* ZODIAC	5.0	4.8	6.8	6.4	5.7
* SWORD (NC-HF1)	5.1	4.9	6.6	6.2	5.7
* WRIGLEY 2 (IS-FRC-35)	4.9	4.8	6.8	6.3	5.7
* NAVIGATOR II (MVS-OS-1)	4.9	4.8	7.0	6.0	5.6
* EPIC	4.6	4.6	6.7	5.8	5.4
* SHADEMASTER III (PST-48Y7)	4.6	4.6	6.6	5.7	5.4
* CASCADE	4.5	4.4	6.5	5.6	5.3
* BIGHORN GT (PST-4BU3)	4.5	4.3	6.1	5.6	5.1
* ABERDEEN	4.3	4.2	6.2	5.4	5.0
SHADOW III (PST-4CSD)	4.1	4.1	6.2	5.1	4.9
* BOREAL	3.0	3.0	5.2	4.1	3.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.5	12.9	9.2	10.0	11.0

* COMMERCIALY AVAILABLE IN THE USA IN 2014.

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

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

NAME	NJ1	MD1	NY1	MN1	MEAN
FAIRMONT (TCD)	5.5	5.3	7.2	7.0	6.2
RADAR (MVS-FRC-101)	5.5	5.2	7.0	7.0	6.1
LONGFELLOW 3 (IS-FRC-33)	5.4	5.2	7.0	6.9	6.1
INTRIGUE 2	5.2	5.0	7.0	6.5	5.9
PSG 50C3	5.2	5.0	7.0	6.5	5.9
TREAZURE II	5.2	4.9	6.8	6.5	5.9
LACROSSE	5.1	5.0	6.8	6.4	5.8
ZODIAC	5.0	4.8	6.8	6.4	5.7
WRIGLEY 2 (IS-FRC-35)	4.9	4.8	6.8	6.3	5.7
CASCADE	4.5	4.4	6.5	5.6	5.3
SHADOW III (PST-4CSD)	4.1	4.1	6.2	5.1	4.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.3	12.7	9.1	9.7	10.7

*/ 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.ORG/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 10. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2009 DATA

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

NAME	NJ1	MD1	NY1	MN1	MEAN
PSG-5RM	5.2	5.1	7.1	6.3	5.9
CHANTILLY (IS-FRR-62)	5.2	5.0	7.0	6.5	5.9
ROSECITY (IS-FRR-51)	5.1	5.0	7.1	6.3	5.9
NAVIGATOR II (MVS-OS-1)	4.9	4.8	7.0	6.0	5.6
EPIC	4.6	4.6	6.7	5.8	5.4
SHADEMASTER III (PST-48Y7)	4.6	4.6	6.6	5.7	5.4
ABERDEEN	4.3	4.2	6.2	5.4	5.0
BOREAL	3.0	3.0	5.2	4.1	3.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	13.4	13.6	9.4	10.8	11.5

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

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

NAME	NJ1	MD1	NY1	MN1	MEAN
BEACON (Z6300)	5.5	5.2	6.8	6.7	6.1
SPARTAN II	5.4	5.1	6.8	6.6	6.0
GOTHAM	5.4	5.2	6.8	6.4	5.9
PST-4HES	5.3	5.0	6.7	6.4	5.8
SWORD (NC-HF1)	5.1	4.9	6.6	6.2	5.7
BIGHORN GT (PST-4BU3)	4.5	4.3	6.1	5.6	5.1
LSD VALUE	1.0	1.0	1.0	1.0	1.0
C.V. (%)	11.9	12.5	9.3	9.8	10.7

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

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

NAME	RI1	VA1	WI1	MEAN
LONGFELLOW 3 (IS-FRC-33)	8.1	7.5	7.3	7.6
RADAR (MVS-FRC-101)	8.1	7.4	7.1	7.5
FAIRMONT (TCD)	7.8	7.4	6.8	7.3
ZODIAC	7.2	7.3	7.1	7.2
INTRIGUE 2	7.2	7.4	6.9	7.2
TREAZURE II	7.3	7.1	6.6	7.0
WRIGLEY 2 (IS-FRC-35)	7.0	7.2	6.8	7.0
CHANTILLY (IS-FRR-62)	7.0	7.1	6.3	6.8
PSG 50C3	6.9	7.1	6.2	6.7
PSG-5RM	6.3	7.2	6.0	6.5
ROSECITY (IS-FRR-51)	6.3	7.1	5.9	6.4
NAVIGATOR II (MVS-OS-1)	5.9	7.1	6.1	6.4
LACROSSE	6.7	6.8	5.6	6.4
CASCADE	5.7	6.7	5.7	6.0
EPIC	5.7	6.8	5.6	6.0
SHADEMASTER III (PST-48Y7)	5.5	6.5	5.1	5.7
ABERDEEN	5.2	6.2	4.8	5.4
SPARTAN II	6.3	6.1	3.6	5.3
SHADOW III (PST-4CSD)	4.8	6.1	4.6	5.1
BEACON (Z6300)	6.2	6.0	3.1	5.1
PST-4HES	5.6	5.9	3.0	4.8
BOREAL	4.0	5.4	4.4	4.6
SWORD (NC-HF1)	5.3	5.7	2.6	4.5
GOTHAM	5.1	5.7	2.2	4.3
BIGHORN GT (PST-4BU3)	4.8	5.4	2.5	4.2
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	9.9	9.3	11.8	10.2

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

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

NAME	RI1	VA1	WI1	MEAN
LONGFELLOW 3 (IS-FRC-33)	8.1	7.5	7.3	7.6
RADAR (MVS-FRC-101)	8.1	7.4	7.1	7.5
FAIRMONT (TCD)	7.8	7.4	6.8	7.3
ZODIAC	7.2	7.3	7.1	7.2
INTRIGUE 2	7.2	7.4	6.9	7.2
TREAZURE II	7.3	7.1	6.6	7.0
WRIGLEY 2 (IS-FRC-35)	7.0	7.2	6.8	7.0
PSG 50C3	6.9	7.1	6.2	6.7
LACROSSE	6.7	6.8	5.6	6.4
CASCADE	5.7	6.7	5.7	6.0
SHADOW III (PST-4CSD)	4.8	6.1	4.6	5.1
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	8.9	8.7	9.6	9.1

*/ 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.ORG/AMMI_Q&A.PDF

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

TABLE 2C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	RI1	VA1	WI1	MEAN
CHANTILLY (IS-FRR-62)	7.0	7.1	6.3	6.8
PSG-5RM	6.3	7.2	6.0	6.5
ROSECITY (IS-FRR-51)	6.3	7.1	5.9	6.4
NAVIGATOR II (MVS-OS-1)	5.9	7.1	6.1	6.4
EPIC	5.7	6.8	5.6	6.0
SHADEMASTER III (PST-48Y7)	5.5	6.5	5.1	5.7
ABERDEEN	5.2	6.2	4.8	5.4
BOREAL	4.0	5.4	4.4	4.6
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	10.8	9.3	11.2	10.4

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	RI1	VA1	WI1	MEAN
SPARTAN II	6.3	6.1	3.6	5.3
BEACON (Z6300)	6.2	6.0	3.1	5.1
PST-4HES	5.6	5.9	3.0	4.8
SWORD (NC-HF1)	5.3	5.7	2.6	4.5
GOTHAM	5.1	5.7	2.2	4.3
BIGHORN GT (PST-4BU3)	4.8	5.4	2.5	4.2
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	11.2	10.7	22.0	13.1

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

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

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

NAME	PA1	UT1	WA3	MEAN
GOTHAM	7.0	6.6	6.4	6.8
BEACON (Z6300)	6.6	6.4	6.3	6.5
PST-4HES	6.6	6.3	6.1	6.4
SWORD (NC-HF1)	6.5	6.3	6.0	6.4
SPARTAN II	6.5	6.3	6.2	6.4
PSG-5RM	6.2	6.4	6.1	6.3
ROSECITY (IS-FRR-51)	6.1	6.3	6.0	6.2
FAIRMONT (TCD)	5.9	6.2	6.2	6.1
NAVIGATOR II (MVS-OS-1)	5.9	6.1	5.9	6.0
LACROSSE	5.9	6.1	6.0	6.0
PSG 50C3	5.8	6.1	6.0	6.0
CHANTILLY (IS-FRR-62)	5.8	6.1	6.0	5.9
INTRIGUE 2	5.7	6.0	6.0	5.9
SHADEMASTER III (PST-48Y7)	5.7	5.9	5.6	5.8
BIGHORN GT (PST-4BU3)	5.9	5.7	5.5	5.8
RADAR (MVS-FRC-101)	5.6	6.0	6.1	5.8
EPIC	5.7	5.9	5.6	5.8
LONGFELLOW 3 (IS-FRC-33)	5.6	6.0	6.1	5.8
TREAZURE II	5.5	5.9	5.9	5.7
WRIGLEY 2 (IS-FRC-35)	5.4	5.8	5.7	5.6
ZODIAC	5.3	5.7	5.7	5.5
CASCADE	5.4	5.7	5.4	5.5
SHADOW III (PST-4CSD)	5.4	5.5	5.2	5.4
ABERDEEN	5.3	5.5	5.2	5.4
BOREAL	4.1	4.4	4.1	4.3
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	10.6	10.4	10.7	10.5

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

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

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

NAME	PA1	UT1	WA3	MEAN
FAIRMONT (TCD)	5.9	6.2	6.2	6.1
LACROSSE	5.9	6.1	6.0	6.0
PSG 50C3	5.8	6.1	6.0	6.0
INTRIGUE 2	5.7	6.0	6.0	5.9
RADAR (MVS-FRC-101)	5.6	6.0	6.1	5.8
LONGFELLOW 3 (IS-FRC-33)	5.6	6.0	6.1	5.8
TREAZURE II	5.5	5.9	5.9	5.7
WRIGLEY 2 (IS-FRC-35)	5.4	5.8	5.7	5.6
ZODIAC	5.3	5.7	5.7	5.5
CASCADE	5.4	5.7	5.4	5.5
SHADOW III (PST-4CSD)	5.4	5.5	5.2	5.4
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	11.1	10.5	10.6	10.8

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

TABLE 3C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	PA1	UT1	WA3	MEAN
PSG-5RM	6.2	6.4	6.1	6.3
ROSECITY (IS-FRR-51)	6.1	6.3	6.0	6.2
NAVIGATOR II (MVS-OS-1)	5.9	6.1	5.9	6.0
CHANTILLY (IS-FRR-62)	5.8	6.1	6.0	5.9
SHADEMASTER III (PST-48Y7)	5.7	5.9	5.6	5.8
EPIC	5.7	5.9	5.6	5.8
ABERDEEN	5.3	5.5	5.2	5.4
BOREAL	4.1	4.4	4.1	4.3
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	11.1	10.7	11.1	10.9

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	PA1	UT1	WA3	MEAN
GOTHAM	7.0	6.6	6.4	6.8
BEACON (Z6300)	6.6	6.4	6.3	6.5
PST-4HES	6.6	6.3	6.1	6.4
SWORD (NC-HF1)	6.5	6.3	6.0	6.4
SPARTAN II	6.5	6.3	6.2	6.4
BIGHORN GT (PST-4BU3)	5.9	5.7	5.5	5.8
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	9.5	9.9	10.2	9.7

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

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

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

NAME	NE1	CA1	MEAN
PSG-5RM	6.6	8.5	7.5
ROSECITY (IS-FRR-51)	6.5	8.4	7.4
NAVIGATOR II (MVS-OS-1)	6.4	8.4	7.4
GOTHAM	6.3	8.4	7.4
EPIC	6.1	8.1	7.1
PSG 50C3	6.2	8.0	7.1
FAIRMONT (TCD)	6.3	7.9	7.1
INTRIGUE 2	6.2	7.9	7.1
SHADEMASTER III (PST-48Y7)	6.1	8.1	7.1
PST-4HES	6.1	8.0	7.1
CHANTILLY (IS-FRR-62)	6.2	7.9	7.0
SWORD (NC-HF1)	6.0	8.0	7.0
LACROSSE	6.1	7.9	7.0
SPARTAN II	6.1	7.9	7.0
BEACON (Z6300)	6.1	7.8	6.9
CASCADE	5.9	7.9	6.9
WRIGLEY 2 (IS-FRC-35)	6.0	7.7	6.9
LONGFELLOW 3 (IS-FRC-33)	6.1	7.6	6.8
ZODIAC	6.0	7.6	6.8
TREAZURE II	6.0	7.6	6.8
RADAR (MVS-FRC-101)	6.1	7.5	6.8
SHADOW III (PST-4CSD)	5.7	7.8	6.8
ABERDEEN	5.7	7.7	6.7
BIGHORN GT (PST-4BU3)	5.6	7.6	6.6
BOREAL	4.8	6.8	5.8
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.2	7.9	8.9

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

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

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

NAME	NE1	CA1	MEAN
PSG 50C3	6.2	8.0	7.1
FAIRMONT (TCD)	6.3	7.9	7.1
INTRIGUE 2	6.2	7.9	7.1
LACROSSE	6.1	7.9	7.0
CASCADE	5.9	7.9	6.9
WRIGLEY 2 (IS-FRC-35)	6.0	7.7	6.9
LONGFELLOW 3 (IS-FRC-33)	6.1	7.6	6.8
ZODIAC	6.0	7.6	6.8
TREAZURE II	6.0	7.6	6.8
RADAR (MVS-FRC-101)	6.1	7.5	6.8
SHADOW III (PST-4CSD)	5.7	7.8	6.8
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.2	8.0	9.0

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	NE1	CA1	MEAN
PSG-5RM	6.6	8.5	7.5
ROSECITY (IS-FRR-51)	6.5	8.4	7.4
NAVIGATOR II (MVS-OS-1)	6.4	8.4	7.4
EPIC	6.1	8.1	7.1
SHADEMASTER III (PST-48Y7)	6.1	8.1	7.1
CHANTILLY (IS-FRR-62)	6.2	7.9	7.0
ABERDEEN	5.7	7.7	6.7
BOREAL	4.8	6.8	5.8
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.3	7.8	8.8

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

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	NE1	CA1	MEAN
GOTHAM	6.3	8.4	7.4
PST-4HES	6.1	8.0	7.1
SWORD (NC-HF1)	6.0	8.0	7.0
SPARTAN II	6.1	7.9	7.0
BEACON (Z6300)	6.1	7.8	6.9
BIGHORN GT (PST-4BU3)	5.6	7.6	6.6
LSD VALUE	1.0	1.0	1.0
C.V. (%)	10.3	7.8	8.9

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

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

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

NAME	IL1
NAVIGATOR II (MVS-OS-1)	6.0
PSG-5RM	5.9
INTRIGUE 2	5.8
ZODIAC	5.8
ROSECITY (IS-FRR-51)	5.8
WRIGLEY 2 (IS-FRC-35)	5.7
EPIC	5.6
LONGFELLOW 3 (IS-FRC-33)	5.6
CASCADE	5.5
FAIRMONT (TCD)	5.5
CHANTILLY (IS-FRR-62)	5.4
PSG 50C3	5.4
RADAR (MVS-FRC-101)	5.4
TREAZURE II	5.4
SHADEMASTER III (PST-48Y7)	5.2
LACROSSE	5.0
SHADOW III (PST-4CSD)	5.0
ABERDEEN	4.9
BOREAL	4.6
SPARTAN II	3.6
PST-4HES	3.5
SWORD (NC-HF1)	3.3
GOTHAM	3.3
BIGHORN GT (PST-4BU3)	3.3
BEACON (Z6300)	3.2
LSD VALUE	1.0
C.V. (%)	12.5

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

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

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

NAME	IL1
INTRIGUE 2	5.8
ZODIAC	5.8
WRIGLEY 2 (IS-FRC-35)	5.7
LONGFELLOW 3 (IS-FRC-33)	5.6
CASCADE	5.5
FAIRMONT (TCD)	5.5
PSG 50C3	5.4
RADAR (MVS-FRC-101)	5.4
TREAZURE II	5.4
LACROSSE	5.0
SHADOW III (PST-4CSD)	5.0
LSD VALUE	1.0
C.V. (%)	11.3

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

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

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

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

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

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

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

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

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

TABLE 6A:

TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 1
2010 DATA

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

NAME	PA1	MN1	WA3	MEAN
FAIRMONT (TCD)	7.2	7.7	5.8	6.9
RADAR (MVS-FRC-101)	6.9	7.4	5.8	6.7
PSG 50C3	7.0	7.2	5.5	6.5
LONGFELLOW 3 (IS-FRC-33)	6.9	7.0	5.6	6.5
INTRIGUE 2	6.8	6.9	5.4	6.4
WRIGLEY 2 (IS-FRC-35)	6.6	6.9	5.4	6.3
PSG-5RM	6.8	6.9	5.2	6.3
TREAZURE II	6.6	6.9	5.3	6.3
NAVIGATOR II (MVS-OS-1)	6.5	7.0	5.2	6.2
ZODIAC	6.7	6.7	5.2	6.2
SPARTAN II	5.9	6.5	6.0	6.2
CHANTILLY (IS-FRR-62)	6.7	7.0	4.8	6.2
BEACON (Z6300)	6.0	6.5	5.9	6.1
LACROSSE	6.3	6.4	5.2	6.0
PST-4HES	5.8	6.2	5.9	6.0
SWORD (NC-HF1)	5.7	6.1	5.9	5.9
ROSECITY (IS-FRR-51)	6.3	6.6	4.6	5.9
GOTHAM	5.5	5.9	5.7	5.7
SHADEMASTER III (PST-48Y7)	6.1	6.1	4.4	5.5
EPIC	5.8	6.0	4.3	5.4
CASCADE	5.5	5.2	4.4	5.0
BIGHORN GT (PST-4BU3)	5.1	4.9	4.5	4.8
ABERDEEN	5.1	5.2	4.1	4.8
SHADOW III (PST-4CSD)	5.2	4.6	4.2	4.6
BOREAL	4.0	3.8	3.1	3.7
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	11.1	10.7	13.3	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.ORG/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 6B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2010 DATA

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

NAME	PA1	MN1	WA3	MEAN
FAIRMONT (TCD)	7.2	7.7	5.8	6.9
RADAR (MVS-FRC-101)	6.9	7.4	5.8	6.7
PSG 50C3	7.0	7.2	5.5	6.5
LONGFELLOW 3 (IS-FRC-33)	6.9	7.0	5.6	6.5
INTRIGUE 2	6.8	6.9	5.4	6.4
WRIGLEY 2 (IS-FRC-35)	6.6	6.9	5.4	6.3
TREAZURE II	6.6	6.9	5.3	6.3
ZODIAC	6.7	6.7	5.2	6.2
LACROSSE	6.3	6.4	5.2	6.0
CASCADE	5.5	5.2	4.4	5.0
SHADOW III (PST-4CSD)	5.2	4.6	4.2	4.6
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	10.4	10.2	12.9	11.0

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

TABLE 6C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	PA1	MN1	WA3	MEAN
PSG-5RM	6.8	6.9	5.2	6.3
NAVIGATOR II (MVS-OS-1)	6.5	7.0	5.2	6.2
CHANTILLY (IS-FRR-62)	6.7	7.0	4.8	6.2
ROSECITY (IS-FRR-51)	6.3	6.6	4.6	5.9
SHADEMASTER III (PST-48Y7)	6.1	6.1	4.4	5.5
EPIC	5.8	6.0	4.3	5.4
ABERDEEN	5.1	5.2	4.1	4.8
BOREAL	4.0	3.8	3.1	3.7
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	11.4	11.1	15.2	12.3

TABLE 6D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	PA1	MN1	WA3	MEAN
SPARTAN II	5.9	6.5	6.0	6.2
BEACON (Z6300)	6.0	6.5	5.9	6.1
PST-4HES	5.8	6.2	5.9	6.0
SWORD (NC-HF1)	5.7	6.1	5.9	5.9
GOTHAM	5.5	5.9	5.7	5.7
BIGHORN GT (PST-4BU3)	5.1	4.9	4.5	4.8
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	11.9	11.2	12.0	11.7

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

TABLE 7A:

TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2
2010 DATA

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

NAME	NJ1	RI1	MD1	MEAN
LONGFELLOW 3 (IS-FRC-33)	5.8	8.2	5.0	6.3
FAIRMONT (TCD)	5.7	7.9	4.8	6.1
PSG 50C3	5.5	7.8	4.8	6.0
RADAR (MVS-FRC-101)	5.6	7.4	4.8	5.9
WRIGLEY 2 (IS-FRC-35)	5.4	7.7	4.6	5.9
INTRIGUE 2	5.4	7.4	4.8	5.9
ZODIAC	5.3	7.3	4.7	5.7
SWORD (NC-HF1)	5.5	6.6	5.0	5.7
BEACON (Z6300)	5.5	6.8	4.9	5.7
TREAZURE II	5.2	7.2	4.5	5.7
LACROSSE	5.1	6.8	4.7	5.6
PSG-5RM	5.0	6.7	4.7	5.5
SPARTAN II	5.3	5.9	5.0	5.4
PST-4HES	5.2	5.7	5.0	5.3
GOTHAM	5.1	5.8	4.9	5.3
SHADOW III (PST-4CSD)	4.5	6.5	4.3	5.1
CASCADE	4.3	5.6	4.3	4.7
CHANTILLY (IS-FRR-62)	4.3	5.5	4.1	4.6
NAVIGATOR II (MVS-OS-1)	4.3	4.5	4.3	4.4
BIGHORN GT (PST-4BU3)	4.1	4.6	4.4	4.4
SHADEMASTER III (PST-48Y7)	3.9	4.8	4.0	4.3
ROSECITY (IS-FRR-51)	3.9	4.2	4.0	4.0
EPIC	3.5	3.7	3.8	3.7
ABERDEEN	3.4	3.5	3.7	3.5
BOREAL	2.4	2.3	3.0	2.6
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	14.2	11.3	15.1	13.3

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

TABLE 7B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2010 DATA

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

NAME	NJ1	RI1	MD1	MEAN
LONGFELLOW 3 (IS-FRC-33)	5.8	8.2	5.0	6.3
FAIRMONT (TCD)	5.7	7.9	4.8	6.1
PSG 50C3	5.5	7.8	4.8	6.0
RADAR (MVS-FRC-101)	5.6	7.4	4.8	5.9
WRIGLEY 2 (IS-FRC-35)	5.4	7.7	4.6	5.9
INTRIGUE 2	5.4	7.4	4.8	5.9
ZODIAC	5.3	7.3	4.7	5.7
TREAZURE II	5.2	7.2	4.5	5.7
LACROSSE	5.1	6.8	4.7	5.6
SHADOW III (PST-4CSD)	4.5	6.5	4.3	5.1
CASCADE	4.3	5.6	4.3	4.7
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	12.9	9.3	14.5	11.8

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

TABLE 7C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NJ1	RI1	MD1	MEAN
PSG-5RM	5.0	6.7	4.7	5.5
CHANTILLY (IS-FRR-62)	4.3	5.5	4.1	4.6
NAVIGATOR II (MVS-OS-1)	4.3	4.5	4.3	4.4
SHADEMASTER III (PST-48Y7)	3.9	4.8	4.0	4.3
ROSECITY (IS-FRR-51)	3.9	4.2	4.0	4.0
EPIC	3.5	3.7	3.8	3.7
ABERDEEN	3.4	3.5	3.7	3.5
BOREAL	2.4	2.3	3.0	2.6
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	17.6	15.4	17.2	16.6

TABLE 7D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NJ1	RI1	MD1	MEAN
SWORD (NC-HF1)	5.5	6.6	5.0	5.7
BEACON (Z6300)	5.5	6.8	4.9	5.7
SPARTAN II	5.3	5.9	5.0	5.4
PST-4HES	5.2	5.7	5.0	5.3
GOTHAM	5.1	5.8	4.9	5.3
BIGHORN GT (PST-4BU3)	4.1	4.6	4.4	4.4
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	13.2	11.5	13.9	12.8

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

TABLE 8A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
2010 DATA

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

NAME	NY1	VA1	UT1	MEAN
NAVIGATOR II (MVS-OS-1)	5.1	6.9	7.0	6.3
SPARTAN II	5.6	6.3	6.9	6.2
PST-4HES	5.6	6.2	6.9	6.2
ROSECITY (IS-FRR-51)	4.7	6.7	6.8	6.1
PSG-5RM	4.9	6.7	6.5	6.0
RADAR (MVS-FRC-101)	5.0	6.6	6.4	6.0
GOTHAM	5.4	5.9	6.6	6.0
SWORD (NC-HF1)	5.4	5.9	6.5	5.9
FAIRMONT (TCD)	4.9	6.7	6.2	5.9
LONGFELLOW 3 (IS-FRC-33)	5.0	6.5	6.2	5.9
PSG 50C3	4.9	6.6	6.2	5.9
INTRIGUE 2	4.9	6.5	6.3	5.9
LACROSSE	5.0	6.3	6.4	5.9
ZODIAC	4.9	6.5	6.3	5.9
BEACON (Z6300)	5.2	6.0	6.3	5.9
EPIC	4.6	6.3	6.6	5.8
CHANTILLY (IS-FRR-62)	4.5	6.6	6.4	5.8
BIGHORN GT (PST-4BU3)	5.0	5.8	6.6	5.8
SHADEMASTER III (PST-48Y7)	4.5	6.3	6.3	5.7
TREAZURE II	4.6	6.2	6.0	5.6
WRIGLEY 2 (IS-FRC-35)	4.7	6.2	5.9	5.6
CASCADE	4.6	5.8	6.1	5.5
ABERDEEN	4.4	5.8	6.3	5.5
SHADOW III (PST-4CSD)	4.4	5.3	5.6	5.1
BOREAL	3.8	5.0	5.7	4.8
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	13.9	10.9	10.6	11.6

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

TABLE 8B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
2010 DATA

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

NAME	NY1	VA1	UT1	MEAN
RADAR (MVS-FRC-101)	5.0	6.6	6.4	6.0
FAIRMONT (TCD)	4.9	6.7	6.2	5.9
LONGFELLOW 3 (IS-FRC-33)	5.0	6.5	6.2	5.9
PSG 50C3	4.9	6.6	6.2	5.9
INTRIGUE 2	4.9	6.5	6.3	5.9
LACROSSE	5.0	6.3	6.4	5.9
ZODIAC	4.9	6.5	6.3	5.9
TREAZURE II	4.6	6.2	6.0	5.6
WRIGLEY 2 (IS-FRC-35)	4.7	6.2	5.9	5.6
CASCADE	4.6	5.8	6.1	5.5
SHADOW III (PST-4CSD)	4.4	5.3	5.6	5.1
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	14.1	10.7	11.0	11.8

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

TABLE 8C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NY1	VA1	UT1	MEAN
NAVIGATOR II (MVS-OS-1)	5.1	6.9	7.0	6.3
ROSECITY (IS-FRR-51)	4.7	6.7	6.8	6.1
PSG-5RM	4.9	6.7	6.5	6.0
EPIC	4.6	6.3	6.6	5.8
CHANTILLY (IS-FRR-62)	4.5	6.6	6.4	5.8
SHADEMASTER III (PST-48Y7)	4.5	6.3	6.3	5.7
ABERDEEN	4.4	5.8	6.3	5.5
BOREAL	3.8	5.0	5.7	4.8
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	14.9	10.8	10.5	11.7

TABLE 8D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NY1	VA1	UT1	MEAN
SPARTAN II	5.6	6.3	6.9	6.2
PST-4HES	5.6	6.2	6.9	6.2
GOTHAM	5.4	5.9	6.6	6.0
SWORD (NC-HF1)	5.4	5.9	6.5	5.9
BEACON (Z6300)	5.2	6.0	6.3	5.9
BIGHORN GT (PST-4BU3)	5.0	5.8	6.6	5.8
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	12.7	11.2	10.2	11.3

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

TABLE 9A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 4 */
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	IL1	NE1	CA1	MEAN
PSG-5RM	4.9	5.8	7.7	6.1
ROSECITY (IS-FRR-51)	4.7	5.4	7.6	5.9
ZODIAC	4.6	5.6	7.5	5.9
SHADEMASTER III (PST-48Y7)	4.5	5.7	7.4	5.9
PSG 50C3	4.7	5.4	7.4	5.8
LONGFELLOW 3 (IS-FRC-33)	4.6	5.4	7.5	5.8
INTRIGUE 2	4.5	5.2	7.5	5.8
CHANTILLY (IS-FRR-62)	4.7	5.2	7.2	5.7
CASCADE	4.0	5.5	7.6	5.7
SHADOW III (PST-4CSD)	3.8	5.8	7.4	5.7
LACROSSE	4.2	5.0	7.6	5.6
EPIC	4.3	5.0	7.5	5.6
NAVIGATOR II (MVS-OS-1)	4.5	4.6	7.7	5.6
BIGHORN GT (PST-4BU3)	3.7	4.9	7.9	5.5
FAIRMONT (TCD)	4.4	4.3	7.2	5.3
WRIGLEY 2 (IS-FRC-35)	4.0	4.3	7.0	5.1
ABERDEEN	3.6	4.3	7.2	5.0
RADAR (MVS-FRC-101)	4.1	3.8	7.2	5.0
TREAZURE II	4.0	4.1	7.0	5.0
BOREAL	3.0	4.4	6.9	4.8
PST-4HES	3.0	2.4	7.7	4.4
SPARTAN II	3.0	2.1	7.6	4.2
SWORD (NC-HF1)	2.8	2.3	7.4	4.2
GOTHAM	2.8	2.2	7.4	4.1
BEACON (Z6300)	2.9	2.1	7.2	4.0
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	17.1	15.3	9.1	12.8

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

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

TABLE 9B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 4 */
2010 DATA

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

NAME	IL1	NE1	CA1	MEAN
ZODIAC	4.6	5.6	7.5	5.9
PSG 50C3	4.7	5.4	7.4	5.8
LONGFELLOW 3 (IS-FRC-33)	4.6	5.4	7.5	5.8
INTRIGUE 2	4.5	5.2	7.5	5.8
CASCADE	4.0	5.5	7.6	5.7
SHADOW III (PST-4CSD)	3.8	5.8	7.4	5.7
LACROSSE	4.2	5.0	7.6	5.6
FAIRMONT (TCD)	4.4	4.3	7.2	5.3
WRIGLEY 2 (IS-FRC-35)	4.0	4.3	7.0	5.1
RADAR (MVS-FRC-101)	4.1	3.8	7.2	5.0
TREAZURE II	4.0	4.1	7.0	5.0
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	15.9	13.7	9.2	12.3

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

TABLE 9C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 4 */
2010 DATA

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

NAME	IL1	NE1	CA1	MEAN
PSG-5RM	4.9	5.8	7.7	6.1
ROSECITY (IS-FRR-51)	4.7	5.4	7.6	5.9
SHADEMASTER III (PST-48Y7)	4.5	5.7	7.4	5.9
CHANTILLY (IS-FRR-62)	4.7	5.2	7.2	5.7
EPIC	4.3	5.0	7.5	5.6
NAVIGATOR II (MVS-OS-1)	4.5	4.6	7.7	5.6
ABERDEEN	3.6	4.3	7.2	5.0
BOREAL	3.0	4.4	6.9	4.8
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	15.9	13.4	9.2	12.1

TABLE 9D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 4 */
2010 DATA

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

NAME	IL1	NE1	CA1	MEAN
BIGHORN GT (PST-4BU3)	3.7	4.9	7.9	5.5
PST-4HES	3.0	2.4	7.7	4.4
SPARTAN II	3.0	2.1	7.6	4.2
SWORD (NC-HF1)	2.8	2.3	7.4	4.2
GOTHAM	2.8	2.2	7.4	4.1
BEACON (Z6300)	2.9	2.1	7.2	4.0
LSD VALUE	1.1	1.1	1.1	1.1
C.V. (%)	22.3	25.4	9.0	15.4

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

TABLE 10A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2011 DATA

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

NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
SPARTAN II	5.9	5.0	5.3	6.6	5.9	5.7
BEACON (Z6300)	5.4	5.1	5.2	6.3	5.6	5.5
GOTHAM	5.2	4.6	5.1	6.4	5.6	5.4
SWORD (NC-HF1)	5.5	4.7	4.9	6.2	5.5	5.4
PST-4HES	5.0	4.7	5.3	6.3	5.5	5.4
BIGHORN GT (PST-4BU3)	4.2	4.3	5.1	6.1	5.2	5.0
NAVIGATOR II (MVS-OS-1)	4.8	3.6	4.5	6.4	5.0	4.9
PSG-5RM	5.3	3.6	4.1	6.2	4.9	4.8
RADAR (MVS-FRC-101)	5.1	4.1	4.1	5.8	4.7	4.8
LONGFELLOW 3 (IS-FRC-33)	5.0	4.0	4.1	5.8	4.7	4.7
PSG 50C3	4.7	3.9	4.1	5.7	4.5	4.6
CHANTILLY (IS-FRR-62)	4.8	3.2	4.0	6.1	4.7	4.6
ZODIAC	4.5	3.8	4.1	5.7	4.5	4.5
INTRIGUE 2	4.6	3.8	4.0	5.5	4.4	4.5
WRIGLEY 2 (IS-FRC-35)	4.7	3.7	3.8	5.6	4.4	4.4
ROSECITY (IS-FRR-51)	4.2	3.2	4.1	6.0	4.6	4.4
FAIRMONT (TCD)	4.7	3.7	3.8	5.5	4.3	4.4
SHADEMASTER III (PST-48Y7)	4.2	3.2	4.1	5.9	4.5	4.4
LACROSSE	4.3	3.6	4.0	5.5	4.4	4.4
TREAZURE II	4.3	3.7	4.0	5.5	4.3	4.3
SHADOW III (PST-4CSD)	4.4	3.3	3.7	5.5	4.3	4.2
CASCADE	3.8	3.2	3.9	5.4	4.2	4.1
EPIC	3.5	2.8	3.9	5.6	4.2	4.0
ABERDEEN	3.2	2.6	3.7	5.4	4.0	3.8
BOREAL	2.4	2.3	3.8	5.1	3.8	3.5
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.5	15.3	13.4	9.8	12.1	12.4

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

TABLE 10B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2011 DATA

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

NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
RADAR (MVS-FRC-101)	5.1	4.1	4.1	5.8	4.7	4.8
LONGFELLOW 3 (IS-FRC-33)	5.0	4.0	4.1	5.8	4.7	4.7
PSG 50C3	4.7	3.9	4.1	5.7	4.5	4.6
ZODIAC	4.5	3.8	4.1	5.7	4.5	4.5
INTRIGUE 2	4.6	3.8	4.0	5.5	4.4	4.5
WRIGLEY 2 (IS-FRC-35)	4.7	3.7	3.8	5.6	4.4	4.4
FAIRMONT (TCD)	4.7	3.7	3.8	5.5	4.3	4.4
LACROSSE	4.3	3.6	4.0	5.5	4.4	4.4
TREAZURE II	4.3	3.7	4.0	5.5	4.3	4.3
SHADOW III (PST-4CSD)	4.4	3.3	3.7	5.5	4.3	4.2
CASCADE	3.8	3.2	3.9	5.4	4.2	4.1
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.5	15.4	14.4	10.2	12.9	12.8

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

TABLE 10C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
NAVIGATOR II (MVS-OS-1)	4.8	3.6	4.5	6.4	5.0	4.9
PSG-5RM	5.3	3.6	4.1	6.2	4.9	4.8
CHANTILLY (IS-FRR-62)	4.8	3.2	4.0	6.1	4.7	4.6
ROSECITY (IS-FRR-51)	4.2	3.2	4.1	6.0	4.6	4.4
SHADEMASTER III (PST-48Y7)	4.2	3.2	4.1	5.9	4.5	4.4
EPIC	3.5	2.8	3.9	5.6	4.2	4.0
ABERDEEN	3.2	2.6	3.7	5.4	4.0	3.8
BOREAL	2.4	2.3	3.8	5.1	3.8	3.5
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.5	14.8	13.2	10.1	12.2	12.4

TABLE 10D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
SPARTAN II	5.9	5.0	5.3	6.6	5.9	5.7
BEACON (Z6300)	5.4	5.1	5.2	6.3	5.6	5.5
GOTHAM	5.2	4.6	5.1	6.4	5.6	5.4
SWORD (NC-HF1)	5.5	4.7	4.9	6.2	5.5	5.4
PST-4HES	5.0	4.7	5.3	6.3	5.5	5.4
BIGHORN GT (PST-4BU3)	4.2	4.3	5.1	6.1	5.2	5.0
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	11.0	12.1	11.1	9.1	10.3	10.6

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

TABLE 11A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2011 DATA

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

NAME	PA1	RI1	MN1	MEAN
PSG 50C3	6.5	8.1	7.0	7.2
RADAR (MVS-FRC-101)	6.6	8.5	6.2	7.1
FAIRMONT (TCD)	6.4	8.2	6.3	7.0
ZODIAC	6.1	7.5	6.8	6.8
TREAZURE II	6.0	7.4	6.8	6.8
LONGFELLOW 3 (IS-FRC-33)	6.2	7.9	5.9	6.7
INTRIGUE 2	5.9	7.5	6.2	6.6
WRIGLEY 2 (IS-FRC-35)	6.0	7.7	5.7	6.5
LACROSSE	5.7	7.0	6.4	6.4
PSG-5RM	6.0	7.6	4.8	6.1
BEACON (Z6300)	5.4	7.1	5.7	6.1
SHADOW III (PST-4CSD)	5.1	6.5	4.9	5.5
NAVIGATOR II (MVS-OS-1)	5.1	5.9	5.5	5.5
CASCADE	4.8	5.7	5.9	5.5
SWORD (NC-HF1)	4.8	6.7	4.2	5.2
ROSECITY (IS-FRR-51)	4.7	5.4	5.5	5.2
CHANTILLY (IS-FRR-62)	5.0	6.1	4.4	5.2
SHADEMASTER III (PST-48Y7)	4.7	5.4	5.3	5.2
PST-4HES	4.4	5.6	5.3	5.1
BIGHORN GT (PST-4BU3)	4.1	4.8	6.1	5.0
EPIC	4.2	4.6	5.9	4.9
SPARTAN II	4.6	6.4	3.6	4.9
GOTHAM	4.3	5.7	4.3	4.8
ABERDEEN	3.7	4.0	5.4	4.4
BOREAL	2.4	2.1	5.3	3.3
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	11.1	9.0	10.2	10.0

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

TABLE 11B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2011 DATA

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

NAME	PA1	RI1	MN1	MEAN
PSG 50C3	6.5	8.1	7.0	7.2
RADAR (MVS-FRC-101)	6.6	8.5	6.2	7.1
FAIRMONT (TCD)	6.4	8.2	6.3	7.0
ZODIAC	6.1	7.5	6.8	6.8
TREAZURE II	6.0	7.4	6.8	6.8
LONGFELLOW 3 (IS-FRC-33)	6.2	7.9	5.9	6.7
INTRIGUE 2	5.9	7.5	6.2	6.6
WRIGLEY 2 (IS-FRC-35)	6.0	7.7	5.7	6.5
LACROSSE	5.7	7.0	6.4	6.4
SHADOW III (PST-4CSD)	5.1	6.5	4.9	5.5
CASCADE	4.8	5.7	5.9	5.5
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	9.6	7.6	9.2	8.7

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

Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP

TABLE 110. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2011 DATA

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

NAME	PA1	RI1	MN1	MEAN
PSG-5RM	6.0	7.6	4.8	6.1
NAVIGATOR II (MVS-OS-1)	5.1	5.9	5.5	5.5
ROSECITY (IS-FRR-51)	4.7	5.4	5.5	5.2
CHANTILLY (IS-FRR-62)	5.0	6.1	4.4	5.2
SHADEMASTER III (PST-48Y7)	4.7	5.4	5.3	5.2
EPIC	4.2	4.6	5.9	4.9
ABERDEEN	3.7	4.0	5.4	4.4
BOREAL	2.4	2.1	5.3	3.3
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	12.8	11.1	10.9	11.5

TABLE 11D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 */
2011 DATA

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

NAME	PA1	RI1	MN1	MEAN
BEACON (Z6300)	5.4	7.1	5.7	6.1
SWORD (NC-HF1)	4.8	6.7	4.2	5.2
PST-4HES	4.4	5.6	5.3	5.1
BIGHORN GT (PST-4BU3)	4.1	4.8	6.1	5.0
SPARTAN II	4.6	6.4	3.6	4.9
GOTHAM	4.3	5.7	4.3	4.8
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	12.5	9.5	11.8	11.1

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

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

NAME	IL1	NE1	UT1	MEAN
NAVIGATOR II (MVS-OS-1)	5.0	4.4	7.8	5.7
PSG-5RM	5.3	4.0	7.7	5.7
CHANTILLY (IS-FRR-62)	5.2	4.0	7.7	5.7
ROSECITY (IS-FRR-51)	4.9	4.2	7.4	5.5
SHADEMASTER III (PST-48Y7)	4.6	4.0	7.3	5.3
EPIC	4.5	4.1	6.9	5.2
PSG 50C3	4.7	4.0	6.8	5.1
ZODIAC	4.5	3.9	6.8	5.1
LONGFELLOW 3 (IS-FRC-33)	4.2	3.6	6.9	4.9
RADAR (MVS-FRC-101)	4.3	3.6	6.9	4.9
FAIRMONT (TCD)	4.4	3.6	6.6	4.9
ABERDEEN	4.1	3.7	6.7	4.9
WRIGLEY 2 (IS-FRC-35)	4.2	3.4	6.7	4.8
TREAZURE II	4.1	3.7	6.5	4.8
LACROSSE	4.0	3.5	6.5	4.7
CASCADE	3.9	3.5	6.5	4.7
INTRIGUE 2	3.9	3.4	6.6	4.6
SHADOW III (PST-4CSD)	3.9	3.2	6.7	4.6
BIGHORN GT (PST-4BU3)	2.5	3.3	6.8	4.2
BOREAL	3.0	3.3	6.2	4.2
PST-4HES	2.2	2.9	6.9	4.0
BEACON (Z6300)	2.2	2.8	6.8	3.9
GOTHAM	2.1	2.6	7.1	3.9
SPARTAN II	2.0	2.4	7.3	3.9
SWORD (NC-HF1)	2.0	2.4	6.9	3.8
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	14.9	16.4	8.3	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.ORG/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.

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

NAME	IL1	NE1	UT1	MEAN
PSG 50C3	4.7	4.0	6.8	5.1
ZODIAC	4.5	3.9	6.8	5.1
LONGFELLOW 3 (IS-FRC-33)	4.2	3.6	6.9	4.9
RADAR (MVS-FRC-101)	4.3	3.6	6.9	4.9
FAIRMONT (TCD)	4.4	3.6	6.6	4.9
WRIGLEY 2 (IS-FRC-35)	4.2	3.4	6.7	4.8
TREAZURE II	4.1	3.7	6.5	4.8
LACROSSE	4.0	3.5	6.5	4.7
CASCADE	3.9	3.5	6.5	4.7
INTRIGUE 2	3.9	3.4	6.6	4.6
SHADOW III (PST-4CSD)	3.9	3.2	6.7	4.6
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	13.7	16.0	8.5	11.9

*/ 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.ORG/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.

Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP
 TABLE 120. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
 GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
 2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	IL1	NE1	UT1	MEAN
NAVIGATOR II (MVS-OS-1)	5.0	4.4	7.8	5.7
PSG-5RM	5.3	4.0	7.7	5.7
CHANTILLY (IS-FRR-62)	5.2	4.0	7.7	5.7
ROSECITY (IS-FRR-51)	4.9	4.2	7.4	5.5
SHADEMASTER III (PST-48Y7)	4.6	4.0	7.3	5.3
EPIC	4.5	4.1	6.9	5.2
ABERDEEN	4.1	3.7	6.7	4.9
BOREAL	3.0	3.3	6.2	4.2
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	12.5	14.4	7.9	10.9

TABLE 12D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
 GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 */
 2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	IL1	NE1	UT1	MEAN
BIGHORN GT (PST-4BU3)	2.5	3.3	6.8	4.2
PST-4HES	2.2	2.9	6.9	4.0
BEACON (Z6300)	2.2	2.8	6.8	3.9
GOTHAM	2.1	2.6	7.1	3.9
SPARTAN II	2.0	2.4	7.3	3.9
SWORD (NC-HF1)	2.0	2.4	6.9	3.8
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	26.4	21.0	8.2	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.ORG/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.

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

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

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

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

TABLE 13B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2012 DATA

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

NAME	PA1	NJ1	VA1	IL1	NE1	UT1	MEAN
ZODIAC	6.2	4.9	6.2	5.0	3.0	6.1	5.2
LONGFELLOW 3 (IS-FRC-33)	6.1	4.8	6.2	4.9	3.0	6.0	5.1
PSG 50C3	6.5	4.8	6.0	5.1	2.5	5.8	5.1
RADAR (MVS-FRC-101)	5.9	4.7	6.1	4.6	3.0	5.9	5.0
FAIRMONT (TCD)	6.3	4.5	6.0	5.0	2.6	5.8	5.0
INTRIGUE 2	5.8	4.4	6.0	4.9	2.8	5.9	5.0
WRIGLEY 2 (IS-FRC-35)	5.8	4.5	6.0	4.7	2.8	5.8	4.9
TREAZURE II	5.8	4.6	5.9	4.6	2.8	5.8	4.9
SHADOW III (PST-4CSD)	5.0	4.9	5.8	4.2	3.0	5.9	4.8
LACROSSE	5.3	4.0	5.7	4.4	2.7	5.6	4.6
CASCADE	4.5	4.0	5.6	4.2	3.0	5.8	4.5
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	10.1	12.7	9.7	12.4	20.5	9.9	11.8

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

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN 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. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2012 DATA

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

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

TABLE 13D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2012 DATA

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

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

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

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

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

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

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

2012 DATA

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

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

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

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

TABLE 14C.

TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2012 DATA

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

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

TABLE 14D.

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

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

NAME	RI1	MN1	MEAN
BEACON (Z6300)	7.6	5.7	6.6
SPARTAN II	6.6	4.7	5.7
SWORD (NC-HF1)	6.9	4.3	5.6
BIGHORN GT (PST-4BU3)	4.8	5.1	4.9
GOTHAM	5.8	4.1	4.9
PST-4HES	5.5	4.3	4.9
LSD VALUE	0.9	0.9	0.9
C.V. (%)	9.4	12.4	10.7

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

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

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

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

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

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

TABLE 15B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2012 DATA

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

NAME	MD1	WA3	MEAN
RADAR (MVS-FRC-101)	4.4	5.2	4.8
LONGFELLOW 3 (IS-FRC-33)	4.2	5.0	4.6
ZODIAC	4.0	5.0	4.5
TREAZURE II	3.8	4.7	4.3
WRIGLEY 2 (IS-FRC-35)	3.8	4.7	4.2
LACROSSE	3.7	4.6	4.2
INTRIGUE 2	3.6	4.7	4.2
FAIRMONT (TCD)	3.6	4.6	4.1
PSG 50C3	3.5	4.6	4.0
SHADOW III (PST-4CSD)	3.4	4.5	4.0
CASCADE	3.4	4.5	4.0
LSD VALUE	0.9	0.9	0.9
C.V. (%)	15.4	12.2	13.6

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

TABLE 15C.

TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2012 DATA

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

NAME	MD1	WA3	MEAN
NAVIGATOR II (MVS-0S-1)	3.7	5.0	4.4
CHANTILLY (IS-FRR-62)	3.8	4.8	4.3
PSG-5RM	3.4	4.7	4.0
SHADEMASTER III (PST-48Y7)	3.2	4.6	3.9
ROSECITY (IS-FRR-51)	3.2	4.5	3.9
ABERDEEN	3.2	4.4	3.8
EPIC	2.9	4.2	3.6
BOREAL	2.9	4.0	3.5
LSD VALUE	0.9	0.9	0.9
C.V. (%)	17.6	12.8	14.9

TABLE 15D.

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

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

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

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

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

NAME	PA1	NJ1	RI1	VA1	IL1	NE1	MEAN
RADAR (MVS-FRC-101)	6.4	5.5	7.7	5.9	5.4	4.2	5.8
FAIRMONT (TCD)	6.3	5.4	7.5	5.9	5.8	4.2	5.8
LONGFELLOW 3 (IS-FRC-33)	5.9	5.4	7.7	6.0	5.4	4.2	5.8
PSG 50C3	6.4	5.3	7.7	5.7	5.4	4.1	5.8
PSG-5RM	6.0	5.1	7.4	5.6	5.7	4.1	5.6
INTRIGUE 2	5.9	5.3	7.0	5.8	5.1	4.2	5.6
ZODIAC	5.3	5.3	7.4	6.0	5.1	4.2	5.5
CHANTILLY (IS-FRR-62)	5.7	5.0	6.4	5.8	5.7	4.3	5.5
TREASURE II	5.0	5.3	7.6	5.9	4.8	4.0	5.4
WRIGLEY 2 (IS-FRC-35)	5.9	5.1	7.1	5.5	4.7	4.0	5.4
NAVIGATOR II (MVS-OS-1)	5.6	5.0	6.2	5.8	5.3	4.2	5.4
ROSECITY (IS-FRR-51)	5.1	4.5	5.3	5.5	5.7	4.3	5.0
LACROSSE	3.9	4.6	7.5	5.4	4.6	3.5	4.9
BEACON (Z6300)	5.9	5.4	6.5	5.5	2.3	4.1	4.9
SHADEMASTER III (PST-48Y7)	5.3	4.5	4.5	5.5	5.4	4.2	4.9
SHADOW III (PST-4CSD)	5.0	4.8	5.3	5.7	4.6	3.7	4.8
SPARTAN II	4.2	5.2	7.1	5.6	2.1	4.1	4.7
SWORD (NC-HF1)	3.6	4.9	7.4	5.4	2.8	4.0	4.7
CASCADE	3.2	4.6	5.4	5.9	4.9	3.9	4.7
PST-4HES	4.9	5.0	5.6	5.5	2.5	4.0	4.6
GOTHAM	4.9	4.6	5.7	4.9	2.2	3.9	4.4
EPIC	3.8	3.8	3.7	5.1	4.9	3.9	4.2
ABERDEEN	2.9	3.7	4.2	5.1	4.8	3.8	4.1
BIGHORN GT (PST-4BU3)	3.2	4.4	5.0	5.3	2.5	3.9	4.0
BOREAL	2.8	3.7	2.2	5.5	4.3	3.7	3.7
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	11.7	11.8	9.2	10.2	12.8	14.2	11.4

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

TABLE 16B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2013 DATA

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

NAME	PA1	NJ1	RI1	VA1	IL1	NE1	MEAN
RADAR (MVS-FRC-101)	6.4	5.5	7.7	5.9	5.4	4.2	5.8
FAIRMONT (TCD)	6.3	5.4	7.5	5.9	5.8	4.2	5.8
LONGFELLOW 3 (IS-FRC-33)	5.9	5.4	7.7	6.0	5.4	4.2	5.8
PSG 50C3	6.4	5.3	7.7	5.7	5.4	4.1	5.8
INTRIGUE 2	5.9	5.3	7.0	5.8	5.1	4.2	5.6
ZODIAC	5.3	5.3	7.4	6.0	5.1	4.2	5.5
TREAZURE II	5.0	5.3	7.6	5.9	4.8	4.0	5.4
WRIGLEY 2 (IS-FRC-35)	5.9	5.1	7.1	5.5	4.7	4.0	5.4
LACROSSE	3.9	4.6	7.5	5.4	4.6	3.5	4.9
SHADOW III (PST-4CSD)	5.0	4.8	5.3	5.7	4.6	3.7	4.8
CASCADE	3.2	4.6	5.4	5.9	4.9	3.9	4.7
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	10.7	11.2	8.1	9.9	11.3	14.3	10.6

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

TABLE 16C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2013 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	PA1	NJ1	RI1	VA1	IL1	NE1	MEAN
PSG-5RM	6.0	5.1	7.4	5.6	5.7	4.1	5.6
CHANTILLY (IS-FRR-62)	5.7	5.0	6.4	5.8	5.7	4.3	5.5
NAVIGATOR II (MVS-OS-1)	5.6	5.0	6.2	5.8	5.3	4.2	5.4
ROSECITY (IS-FRR-51)	5.1	4.5	5.3	5.5	5.7	4.3	5.0
SHADEMASTER III (PST-48Y7)	5.3	4.5	4.5	5.5	5.4	4.2	4.9
EPIC	3.8	3.8	3.7	5.1	4.9	3.9	4.2
ABERDEEN	2.9	3.7	4.2	5.1	4.8	3.8	4.1
BOREAL	2.8	3.7	2.2	5.5	4.3	3.7	3.7
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.3	13.0	11.5	10.4	10.9	14.2	11.9

TABLE 16D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2013 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	PA1	NJ1	RI1	VA1	IL1	NE1	MEAN
BEACON (Z6300)	5.9	5.4	6.5	5.5	2.3	4.1	4.9
SWORD (NC-HF1)	3.6	4.9	7.4	5.4	2.8	4.0	4.7
SPARTAN II	4.2	5.2	7.1	5.6	2.1	4.1	4.7
PST-4HES	4.9	5.0	5.6	5.5	2.5	4.0	4.6
GOTHAM	4.9	4.6	5.7	4.9	2.2	3.9	4.4
BIGHORN GT (PST-4BU3)	3.2	4.4	5.0	5.3	2.5	3.9	4.0
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.9	11.6	9.2	10.7	24.1	14.3	12.6

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

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

NAME	MD1	UT1	WA3	MEAN
SPARTAN II	7.0	6.5	5.6	6.4
BEACON (Z6300)	6.9	6.3	5.5	6.3
SWORD (NC-HF1)	6.0	7.1	5.3	6.1
GOTHAM	6.1	6.9	5.2	6.1
PST-4HES	6.2	6.1	5.4	5.9
BIGHORN GT (PST-4BU3)	5.4	6.2	5.2	5.6
INTRIGUE 2	3.8	6.6	4.9	5.1
WRIGLEY 2 (IS-FRC-35)	3.9	6.6	4.7	5.0
ZODIAC	3.8	6.3	4.9	5.0
PSG 50C3	3.5	6.8	4.7	5.0
RADAR (MVS-FRC-101)	3.6	6.5	4.8	4.9
LONGFELLOW 3 (IS-FRC-33)	3.6	6.4	4.8	4.9
TREAZURE II	3.9	6.1	4.8	4.9
NAVIGATOR II (MVS-OS-1)	3.2	6.5	4.7	4.8
FAIRMONT (TCD)	3.2	6.5	4.7	4.8
CHANTILLY (IS-FRR-62)	2.8	6.7	4.7	4.8
PSG-5RM	2.9	6.8	4.5	4.7
ROSECITY (IS-FRR-51)	2.4	7.1	4.6	4.7
LACROSSE	3.1	6.2	4.2	4.5
SHADEMASTER III (PST-48Y7)	2.5	6.3	4.5	4.5
CASCADE	2.8	5.4	4.6	4.3
EPIC	2.0	6.4	4.3	4.2
ABERDEEN	1.9	6.4	4.2	4.2
SHADOW III (PST-4CSD)	3.0	4.9	4.4	4.1
BOREAL	2.1	4.5	4.3	3.6
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	14.9	9.1	12.0	11.5

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

TABLE 17B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2013 DATA

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

NAME	MD1	UT1	WA3	MEAN
INTRIGUE 2	3.8	6.6	4.9	5.1
WRIGLEY 2 (IS-FRC-35)	3.9	6.6	4.7	5.0
ZODIAC	3.8	6.3	4.9	5.0
PSG 50C3	3.5	6.8	4.7	5.0
RADAR (MVS-FRC-101)	3.6	6.5	4.8	4.9
LONGFELLOW 3 (IS-FRC-33)	3.6	6.4	4.8	4.9
TREAZURE II	3.9	6.1	4.8	4.9
FAIRMONT (TCD)	3.2	6.5	4.7	4.8
LACROSSE	3.1	6.2	4.2	4.5
CASCADE	2.8	5.4	4.6	4.3
SHADOW III (PST-4CSD)	3.0	4.9	4.4	4.1
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	16.5	9.2	12.3	12.0

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

TABLE 17C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2013 DATA

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

NAME	MD1	UT1	WA3	MEAN
NAVIGATOR II (MVS-0S-1)	3.2	6.5	4.7	4.8
CHANTILLY (IS-FRR-62)	2.8	6.7	4.7	4.8
PSG-5RM	2.9	6.8	4.5	4.7
ROSECITY (IS-FRR-51)	2.4	7.1	4.6	4.7
SHADEMASTER III (PST-48Y7)	2.5	6.3	4.5	4.5
EPIC	2.0	6.4	4.3	4.2
ABERDEEN	1.9	6.4	4.2	4.2
BOREAL	2.1	4.5	4.3	3.6
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	22.9	9.0	12.8	12.9

TABLE 17D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2013 DATA

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

NAME	MD1	UT1	WA3	MEAN
SPARTAN II	7.0	6.5	5.6	6.4
BEACON (Z6300)	6.9	6.3	5.5	6.3
SWORD (NC-HF1)	6.0	7.1	5.3	6.1
GOTHAM	6.1	6.9	5.2	6.1
PST-4HES	6.2	6.1	5.4	5.9
BIGHORN GT (PST-4BU3)	5.4	6.2	5.2	5.6
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	9.1	8.8	10.6	9.5

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

TABLE 18A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2009-13 DATA

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

	GENETIC	SPRING	SEEDLVIG	PERCENT	PERCENT	PERCENT	QUALITY RATINGS											
NAME	COLOR	GREENUP	VIGOR	COVER	COVER	COVER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	
GOTHAM	6.2	5.3	7.3	88.3	80.6	83.6	5.6	5.9	6.9	7.5	7.4	7.0	6.8	7.2	6.8	6.7	6.8	
BEACON (Z6300)	4.0	3.8	7.0	90.2	71.1	77.4	4.9	5.9	7.3	7.6	7.4	6.9	6.7	6.4	6.5	6.3	6.6	
BIGHORN GT (PST-4BU3)	3.7	4.0	8.3	90.8	70.8	83.8	5.4	6.1	7.0	7.3	6.8	6.5	6.3	5.7	5.9	6.0	6.4	
PSG 50C3	4.2	4.3	8.0	92.2	76.1	79.1	5.3	6.1	7.1	7.2	6.2	6.6	6.3	6.1	5.9	5.3	6.3	
SPARTAN II	4.2	4.2	7.0	92.2	73.3	79.6	4.9	5.9	6.6	7.0	6.9	6.3	6.4	6.5	6.0	6.0	6.3	
RADAR (MVS-FRC-101)	6.2	5.5	8.0	86.5	65.4	73.9	5.3	6.1	7.0	6.5	6.1	5.5	5.7	5.5	5.8	6.3	6.0	
PST-4HES	4.3	4.8	5.7	88.5	64.3	70.4	5.1	5.1	6.5	6.4	5.7	5.2	5.7	6.1	6.1	6.3	5.8	
SWORD (NC-HF1)	4.7	4.3	5.3	79.8	64.9	67.3	4.5	4.9	5.7	6.7	6.7	6.3	5.9	6.3	5.5	5.0	5.8	
FAIRMONT (TCD)	6.0	4.5	5.3	86.2	65.2	61.8	4.5	5.5	6.8	6.5	5.7	6.0	5.6	5.3	5.0	5.0	5.7	
ZODIAC	5.5	5.0	8.0	81.3	64.1	67.2	5.1	5.8	6.5	6.5	5.7	5.4	5.5	5.4	5.7	4.7	5.7	
WRIGLEY 2 (IS-FRC-35)	4.7	4.3	6.0	76.2	53.5	63.3	4.6	5.5	6.3	5.9	5.1	5.3	5.1	5.3	5.3	5.0	5.4	
LONGFELLOW 3 (IS-FRC-33)	4.0	5.5	5.0	82.5	50.9	55.6	4.3	5.1	5.9	6.0	5.3	5.2	4.9	5.2	5.2	4.7	5.2	
TREASURE II	4.7	5.2	6.7	80.0	48.3	60.9	4.8	5.4	5.9	5.5	4.6	4.7	5.2	4.9	5.5	4.7	5.2	
CASCADE	7.2	5.8	6.0	77.5	48.7	57.9	4.7	5.3	5.5	5.5	4.9	4.7	4.4	4.9	5.0	4.0	5.0	
INTRIGUE 2	6.0	5.0	7.0	70.3	48.4	52.8	4.2	5.1	5.7	5.5	4.9	5.0	4.7	4.8	4.9	3.7	5.0	
PSG-5RM	3.5	4.5	7.0	69.8	48.6	47.3	4.4	4.5	5.2	5.5	4.8	4.4	4.2	4.3	4.3	3.7	4.6	
NAVIGATOR II (MVS-OS-1)	4.5	3.5	6.7	67.2	42.8	49.0	4.0	4.5	5.1	5.3	4.5	4.0	3.9	3.6	3.9	4.0	4.3	
ROSECITY (IS-FRR-51)	4.0	4.3	6.0	72.7	39.7	44.1	4.1	4.5	4.9	4.9	4.5	4.0	3.6	3.9	3.9	4.0	4.3	
CHANTILLY (IS-FRR-62)	3.7	5.0	6.7	64.3	32.9	45.2	4.3	4.3	5.0	4.7	3.9	3.7	3.7	3.9	3.7	3.7	4.1	
ABERDEEN	3.5	4.7	8.0	74.8	32.3	41.3	4.2	4.1	4.5	4.5	3.9	3.5	3.3	4.1	3.5	2.7	4.0	
LACROSSE	4.0	5.0	5.7	66.8	31.5	39.6	3.5	4.5	5.7	4.7	3.9	3.6	3.3	3.3	3.3	3.0	4.0	
EPIC	4.8	4.5	7.7	66.2	33.3	42.6	4.3	4.2	4.4	4.3	3.5	3.6	3.5	3.3	3.4	4.0	3.9	
SHADEMASTER III (PST-48Y7)	2.8	3.5	6.7	63.2	33.7	40.7	3.6	4.3	4.9	4.5	4.1	3.9	3.4	3.2	3.1	2.7	3.9	
SHADOW III (PST-4CSD)	4.2	4.5	7.0	60.7	27.6	37.4	3.9	4.3	5.0	3.9	3.5	3.4	3.3	3.9	3.6	3.3	3.9	
BOREAL	3.5	5.0	7.0	61.5	25.5	37.0	3.7	4.1	3.9	3.9	3.5	3.3	3.1	3.5	3.1	2.0	3.6	
LSD VALUE	1.1	1.6	1.7	57.4	15.7	20.6	1.0	1.1	1.2	1.2	1.0	1.0	1.0	1.1	1.1	2.9	0.8	
C.V. (%)	22.3	22.7	13.9	32.7	40.1	37.9	27.8	28.3	28.3	29.4	29.2	30.8	32.6	33.8	33.7	32.2	24.2	

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 18B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2009-13 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SEEDLVIG VIGOR	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	QUALITY RATINGS										
							MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PSG 50C3	4.2	4.3	8.0	92.2	76.1	79.1	5.3	6.1	7.1	7.2	6.2	6.6	6.3	6.1	5.9	5.3	6.3
RADAR (MVS-FRC-101)	6.2	5.5	8.0	86.5	65.4	73.9	5.3	6.1	7.0	6.5	6.1	5.5	5.7	5.5	5.8	6.3	6.0
FAIRMONT (TCD)	6.0	4.5	5.3	86.2	65.2	61.8	4.5	5.5	6.8	6.5	5.7	6.0	5.6	5.3	5.0	5.0	5.7
ZODIAC	5.5	5.0	8.0	81.3	64.1	67.2	5.1	5.8	6.5	6.5	5.7	5.4	5.5	5.4	5.7	4.7	5.7
WRIGLEY 2 (IS-FRC-35)	4.7	4.3	6.0	76.2	53.5	63.3	4.6	5.5	6.3	5.9	5.1	5.3	5.1	5.3	5.3	5.0	5.4
LONGFELLOW 3 (IS-FRC-33)	4.0	5.5	5.0	82.5	50.9	55.6	4.3	5.1	5.9	6.0	5.3	5.2	4.9	5.2	5.2	4.7	5.2
TREAZURE II	4.7	5.2	6.7	80.0	48.3	60.9	4.8	5.4	5.9	5.5	4.6	4.7	5.2	4.9	5.5	4.7	5.2
CASCADE	7.2	5.8	6.0	77.5	48.7	57.9	4.7	5.3	5.5	5.5	4.9	4.7	4.4	4.9	5.0	4.0	5.0
INTRIGUE 2	6.0	5.0	7.0	70.3	48.4	52.8	4.2	5.1	5.7	5.5	4.9	5.0	4.7	4.8	4.9	3.7	5.0
LACROSSE	4.0	5.0	5.7	66.8	31.5	39.6	3.5	4.5	5.7	4.7	3.9	3.6	3.3	3.3	3.3	3.0	4.0
SHADOW III (PST-4CSD)	4.2	4.5	7.0	60.7	27.6	37.4	3.9	4.3	5.0	3.9	3.5	3.4	3.3	3.9	3.6	3.3	3.9
LSD VALUE	1.1	1.5	1.5	58.4	15.9	25.5	0.9	1.3	1.5	1.2	1.1	1.1	1.2	1.4	1.4	2.5	0.9
C.V. (%)	19.7	19.3	12.8	35.4	38.7	40.0	26.3	28.1	27.8	29.3	30.9	30.1	33.2	34.7	35.2	25.4	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 18C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2009-13 DATA

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

				PERCENT	PERCENT	PERCENT											
	GENETIC	SPRING	SEEDLVIG	COVER	COVER	COVER	QUALITY RATINGS										
NAME	COLOR	GREENUP	VIGOR	SPRING	SUMMER	FALL	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PSG-5RM	3.5	4.5	7.0	69.8	48.6	47.3	4.4	4.5	5.2	5.5	4.8	4.4	4.2	4.3	4.3	3.7	4.6
NAVIGATOR II (MVS-OS-1)	4.5	3.5	6.7	67.2	42.8	49.0	4.0	4.5	5.1	5.3	4.5	4.0	3.9	3.6	3.9	4.0	4.3
ROSECITY (IS-FRR-51)	4.0	4.3	6.0	72.7	39.7	44.1	4.1	4.5	4.9	4.9	4.5	4.0	3.6	3.9	3.9	4.0	4.3
CHANTILLY (IS-FRR-62)	3.7	5.0	6.7	64.3	32.9	45.2	4.3	4.3	5.0	4.7	3.9	3.7	3.7	3.9	3.7	3.7	4.1
ABERDEEN	3.5	4.7	8.0	74.8	32.3	41.3	4.2	4.1	4.5	4.5	3.9	3.5	3.3	4.1	3.5	2.7	4.0
EPIC	4.8	4.5	7.7	66.2	33.3	42.6	4.3	4.2	4.4	4.3	3.5	3.6	3.5	3.3	3.4	4.0	3.9
SHADEMASTER III (PST-48Y7)	2.8	3.5	6.7	63.2	33.7	40.7	3.6	4.3	4.9	4.5	4.1	3.9	3.4	3.2	3.1	2.7	3.9
BOREAL	3.5	5.0	7.0	61.5	25.5	37.0	3.7	4.1	3.9	3.9	3.5	3.3	3.1	3.5	3.1	2.0	3.6
LSD VALUE	1.4	1.5	2.6	63.3	25.0	44.0	1.5	2.0	2.0	2.1	1.5	1.9	1.8	2.1	1.7	4.3	1.5
C.V. (%)	26.6	22.9	15.2	43.1	59.7	56.9	31.7	33.1	36.6	40.9	36.4	40.8	42.4	46.8	43.1	49.8	32.3

TABLE 18D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS
GROWN UNDER SHADE AT CARBONDALE, IL 1/
2009-13 DATA

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

	GENETIC	SPRING	SEEDLVIG	PERCENT	PERCENT	PERCENT	QUALITY RATINGS											
NAME	COLOR	GREENUP	VIGOR	COVER	COVER	COVER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	
				SPRING	SUMMER	FALL												
GOTHAM	6.2	5.3	7.3	88.3	80.6	83.6	5.6	5.9	6.9	7.5	7.4	7.0	6.8	7.2	6.8	6.7	6.8	
BEACON (Z6300)	4.0	3.8	7.0	90.2	71.1	77.4	4.9	5.9	7.3	7.6	7.4	6.9	6.7	6.4	6.5	6.3	6.6	
BIGHORN GT (PST-4BU3)	3.7	4.0	8.3	90.8	70.8	83.8	5.4	6.1	7.0	7.3	6.8	6.5	6.3	5.7	5.9	6.0	6.4	
SPARTAN II	4.2	4.2	7.0	92.2	73.3	79.6	4.9	5.9	6.6	7.0	6.9	6.3	6.4	6.5	6.0	6.0	6.3	
PST-4HES	4.3	4.8	5.7	88.5	64.3	70.4	5.1	5.1	6.5	6.4	5.7	5.2	5.7	6.1	6.1	6.3	5.8	
SWORD (NC-HF1)	4.7	4.3	5.3	79.8	64.9	67.3	4.5	4.9	5.7	6.7	6.7	6.3	5.9	6.3	5.5	5.0	5.8	
LSD VALUE	1.3	2.0	1.6	18.6	19.1	16.2	1.2	1.1	1.1	1.1	1.1	1.2	1.4	1.2	1.4	4.1	0.8	
C.V. (%)	23.6	28.3	12.5	12.5	24.6	18.3	24.6	22.9	20.4	17.4	19.6	22.7	23.0	21.0	23.0	26.6	15.4	

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.

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

NAME	GENETIC COLOR	PERCENT COVER SUMMER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						
				MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CHANTILLY (IS-FRR-62)	6.7	86.7	68.3	6.0	7.0	6.7	6.0	6.7	6.7	6.5
INTRIGUE 2	5.0	71.7	63.3	7.0	7.0	5.3	5.0	6.3	7.0	6.3
LACROSSE	7.0	81.7	66.7	6.7	6.7	5.7	5.3	6.0	6.7	6.2
ZODIAC	5.7	85.0	76.7	7.3	7.0	5.0	5.3	6.0	6.3	6.2
PSG 50C3	5.3	73.3	70.0	5.3	6.7	6.3	5.7	5.3	6.3	5.9
ROSECITY (IS-FRR-51)	6.7	73.3	63.3	5.7	5.7	5.7	5.7	6.0	6.3	5.8
LONGFELLOW 3 (IS-FRC-33)	5.0	81.7	70.0	6.3	6.0	5.0	5.0	6.0	6.0	5.7
WRIGLEY 2 (IS-FRC-35)	4.7	71.7	66.7	6.0	6.3	5.0	4.7	6.0	6.0	5.7
NAVIGATOR II (MVS-OS-1)	6.0	75.0	56.7	5.7	5.7	5.3	5.3	6.0	6.0	5.7
BIGHORN GT (PST-4BU3)	4.0	73.3	68.3	6.0	5.7	5.0	5.3	5.7	5.7	5.6
CASCADE	5.7	83.3	70.0	6.3	6.3	5.0	4.7	5.0	6.3	5.6
RADAR (MVS-FRC-101)	6.0	61.7	70.0	6.0	6.0	5.0	5.3	5.7	5.7	5.6
SHADEMASTER III (PST-48Y7)	7.7	66.7	55.0	5.3	5.3	5.7	5.0	6.0	6.0	5.6
SPARTAN II	5.0	78.3	66.7	6.0	5.7	5.0	5.0	5.7	6.0	5.6
BEACON (Z6300)	4.7	71.7	70.0	6.0	6.0	5.0	4.7	5.7	5.7	5.5
EPIC	6.0	66.7	73.3	6.0	5.7	5.0	4.7	5.7	5.7	5.4
FAIRMONT (TCD)	5.7	73.3	70.0	5.7	6.0	5.0	4.7	5.3	5.7	5.4
ABERDEEN	5.7	60.0	56.7	5.7	5.3	5.0	4.7	5.3	6.0	5.3
SHADOW III (PST-4CSD)	5.7	58.3	66.7	5.3	6.0	4.7	4.7	5.7	5.7	5.3
PST-4HES	4.3	76.7	63.3	5.0	5.7	5.3	5.0	5.3	5.7	5.3
PSG-5RM	6.3	70.0	73.3	5.0	5.3	5.0	5.0	5.3	5.3	5.2
TREAZURE II	5.0	73.3	71.7	4.0	5.0	5.3	4.3	5.0	5.0	4.8
BOREAL	4.3	78.3	53.3	4.7	4.3	5.0	4.3	4.7	5.0	4.7
GOTHAM	4.3	68.3	53.3	4.7	4.7	4.7	4.0	5.0	5.3	4.7
SWORD (NC-HF1)	4.7	73.3	53.3	5.0	4.7	4.7	4.0	5.0	5.0	4.7
LSD VALUE	1.3	27.6	13.6	3.1	1.5	1.5	1.5	1.6	1.7	1.1
C.V. (%)	14.1	14.5	11.0	20.0	13.1	12.2	13.3	11.8	12.0	10.0

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

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

TABLE 19B.

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

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

NAME	GENETIC COLOR	PERCENT COVER SUMMER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						
				MAY	JUN	JUL	AUG	SEP	OCT	MEAN
INTRIGUE 2	5.0	71.7	63.3	7.0	7.0	5.3	5.0	6.3	7.0	6.3
LACROSSE	7.0	81.7	66.7	6.7	6.7	5.7	5.3	6.0	6.7	6.2
ZODIAC	5.7	85.0	76.7	7.3	7.0	5.0	5.3	6.0	6.3	6.2
PSG 50C3	5.3	73.3	70.0	5.3	6.7	6.3	5.7	5.3	6.3	5.9
LONGFELLOW 3 (IS-FRC-33)	5.0	81.7	70.0	6.3	6.0	5.0	5.0	6.0	6.0	5.7
WRIGLEY 2 (IS-FRC-35)	4.7	71.7	66.7	6.0	6.3	5.0	4.7	6.0	6.0	5.7
CASCADE	5.7	83.3	70.0	6.3	6.3	5.0	4.7	5.0	6.3	5.6
RADAR (MVS-FRC-101)	6.0	61.7	70.0	6.0	6.0	5.0	5.3	5.7	5.7	5.6
FAIRMONT (TCD)	5.7	73.3	70.0	5.7	6.0	5.0	4.7	5.3	5.7	5.4
SHADOW III (PST-4CSD)	5.7	58.3	66.7	5.3	6.0	4.7	4.7	5.7	5.7	5.3
TREAZURE II	5.0	73.3	71.7	4.0	5.0	5.3	4.3	5.0	5.0	4.8
LSD VALUE	1.7	30.8	20.6	3.2	2.1	1.4	1.6	1.4	1.9	1.4
C.V. (%)	13.9	17.1	10.5	22.3	13.7	11.6	12.7	10.9	13.0	10.5

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

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

TABLE 19C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER SHADE AT BROOKINGS, SD 1/
2009 DATA

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

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

TABLE 19D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS
GROWN UNDER SHADE AT BROOKINGS, SD 1/
2009 DATA

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

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

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

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

TABLE 20A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/
2010-12 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT COVER	PERCENT COVER	PERCENT COVER	PERCENT WINTER	QUALITY RATINGS							MEAN
			SPRING	SUMMER	FALL	KILL	APR	MAY	JUN	JUL	AUG	SEP	OCT	
FAIRMONT (TCD)	6.0	6.7	85.4	88.3	92.8	77.5	7.2	6.0	5.6	5.7	5.7	5.8	6.7	5.9
PSG 50C3	5.8	5.7	91.6	90.6	93.1	1.7	6.8	6.6	5.8	5.8	5.7	5.0	5.7	5.8
TREASURE II	4.4	5.7	89.9	90.6	93.8	10.0	7.2	6.2	5.4	5.7	5.8	5.2	5.7	5.8
LONGFELLOW 3 (IS-FRC-33)	5.2	6.0	86.1	89.4	92.8	28.3	6.5	6.1	5.8	5.2	5.8	5.2	5.8	5.7
INTRIGUE 2	4.7	6.7	86.1	88.3	94.0	20.0	6.7	6.0	5.0	5.3	5.2	5.3	5.8	5.6
ZODIAC	5.9	7.0	86.0	88.9	94.1	35.0	6.3	5.8	5.3	5.3	5.4	5.4	5.7	5.6
WRIGLEY 2 (IS-FRC-35)	4.2	7.0	83.3	85.6	91.7	38.3	6.0	5.4	5.2	5.2	5.6	5.0	6.0	5.4
RADAR (MVS-FRC-101)	6.0	6.0	80.4	88.9	90.0	46.7	6.2	6.0	4.7	5.1	5.2	5.2	5.7	5.3
BEACON (Z6300)	3.4	7.0	87.1	88.9	92.2	35.0	5.8	5.6	4.6	5.6	5.2	5.1	5.0	5.2
CHANTILLY (IS-FRR-62)	5.2	4.3	84.4	85.6	88.9	38.3	6.2	5.8	5.4	4.4	4.8	4.3	5.0	5.1
LACROSSE	6.1	6.0	84.4	87.8	93.4	38.3	6.2	4.8	5.1	5.1	5.0	4.7	5.2	5.1
PSG-5RM	5.7	4.0	86.1	86.1	91.1	21.7	5.8	5.6	5.0	4.7	4.7	4.4	4.7	4.9
CASCADE	5.8	6.7	89.4	85.0	92.4	10.0	5.3	5.0	4.8	4.7	4.8	4.3	5.3	4.8
GOTHAM	4.8	7.3	80.6	83.9	89.9	28.3	5.7	5.1	4.4	4.2	4.9	4.9	5.0	4.8
SWORD (NC-HF1)	4.9	7.3	78.9	82.8	88.2	40.0	5.7	5.1	4.4	4.8	4.7	4.7	5.2	4.8
SPARTAN II	4.5	7.0	73.3	78.9	83.7	60.0	5.2	5.0	4.2	4.9	4.8	4.7	4.5	4.7
PST-4HES	4.4	7.0	77.8	82.8	90.8	63.3	5.0	4.7	4.3	4.3	4.7	4.4	5.2	4.6
ROSECITY (IS-FRR-51)	4.7	4.0	82.2	83.9	83.8	38.3	5.7	5.6	4.7	4.7	4.2	3.6	4.3	4.6
BIGHORN GT (PST-4BU3)	7.9	7.3	81.7	82.8	90.6	63.3	5.0	4.3	4.0	4.3	4.6	4.7	4.7	4.5
NAVIGATOR II (MVS-OS-1)	5.6	5.0	71.1	80.6	83.6	58.3	5.3	4.8	4.3	4.4	4.1	3.8	4.3	4.4
EPIC	4.6	4.3	77.8	79.4	82.6	58.3	5.2	5.0	4.3	4.3	3.9	3.3	3.7	4.2
ABERDEEN	4.4	3.3	78.3	80.6	83.3	30.0	4.7	4.4	4.1	4.0	3.6	3.4	3.3	3.9
SHADEMASTER III (PST-48Y7)	5.7	4.3	72.8	76.7	81.8	51.7	4.5	4.4	3.6	4.1	3.4	3.4	3.8	3.8
BOREAL	2.9	4.3	77.2	75.6	89.0	6.7	4.2	4.4	4.1	3.6	3.1	3.1	3.3	3.7
SHADOW III (PST-4CSD)	5.8	6.3	66.1	78.9	84.2	51.7	3.7	3.3	3.3	4.2	3.7	3.8	4.3	3.7
LSD VALUE	0.9	1.1	19.2	10.5	11.3	77.7	1.1	1.6	0.9	1.1	1.2	0.7	1.1	0.7
C.V. (%)	20.3	12.0	17.8	10.8	10.2	75.5	17.0	28.0	19.7	21.7	25.3	17.4	19.3	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 20B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/
2010-12 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	PERCENT WINTER KILL	QUALITY RATINGS							MEAN
							APR	MAY	JUN	JUL	AUG	SEP	OCT	
FAIRMONT (TCD)	6.0	6.7	85.4	88.3	92.8	77.5	7.2	6.0	5.6	5.7	5.7	5.8	6.7	5.9
PSG 50C3	5.8	5.7	91.6	90.6	93.1	1.7	6.8	6.6	5.8	5.8	5.7	5.0	5.7	5.8
TREAZURE II	4.4	5.7	89.9	90.6	93.8	10.0	7.2	6.2	5.4	5.7	5.8	5.2	5.7	5.8
LONGFELLOW 3 (IS-FRC-33)	5.2	6.0	86.1	89.4	92.8	28.3	6.5	6.1	5.8	5.2	5.8	5.2	5.8	5.7
INTRIGUE 2	4.7	6.7	86.1	88.3	94.0	20.0	6.7	6.0	5.0	5.3	5.2	5.3	5.8	5.6
ZODIAC	5.9	7.0	86.0	88.9	94.1	35.0	6.3	5.8	5.3	5.3	5.4	5.4	5.7	5.6
WRIGLEY 2 (IS-FRC-35)	4.2	7.0	83.3	85.6	91.7	38.3	6.0	5.4	5.2	5.2	5.6	5.0	6.0	5.4
RADAR (MVS-FRC-101)	6.0	6.0	80.4	88.9	90.0	46.7	6.2	6.0	4.7	5.1	5.2	5.2	5.7	5.3
LACROSSE	6.1	6.0	84.4	87.8	93.4	38.3	6.2	4.8	5.1	5.1	5.0	4.7	5.2	5.1
CASCADE	5.8	6.7	89.4	85.0	92.4	10.0	5.3	5.0	4.8	4.7	4.8	4.3	5.3	4.8
SHADOW III (PST-4CSD)	5.8	6.3	66.1	78.9	84.2	51.7	3.7	3.3	3.3	4.2	3.7	3.8	4.3	3.7
LSD VALUE	0.8	2.0	13.4	8.1	7.7	70.7	1.2	1.4	0.9	1.4	1.5	0.7	1.5	0.7
C.V. (%)	16.3	12.7	14.8	7.9	6.8	91.5	17.2	26.1	19.4	20.6	24.8	14.6	17.7	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 20C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/
2010-12 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	PERCENT WINTER KILL	QUALITY RATINGS							MEAN
							APR	MAY	JUN	JUL	AUG	SEP	OCT	
CHANTILLY (IS-FRR-62)	5.2	4.3	84.4	85.6	88.9	38.3	6.2	5.8	5.4	4.4	4.8	4.3	5.0	5.1
PSG-5RM	5.7	4.0	86.1	86.1	91.1	21.7	5.8	5.6	5.0	4.7	4.7	4.4	4.7	4.9
ROSECITY (IS-FRR-51)	4.7	4.0	82.2	83.9	83.8	38.3	5.7	5.6	4.7	4.7	4.2	3.6	4.3	4.6
NAVIGATOR II (MVS-OS-1)	5.6	5.0	71.1	80.6	83.6	58.3	5.3	4.8	4.3	4.4	4.1	3.8	4.3	4.4
EPIC	4.6	4.3	77.8	79.4	82.6	58.3	5.2	5.0	4.3	4.3	3.9	3.3	3.7	4.2
ABERDEEN	4.4	3.3	78.3	80.6	83.3	30.0	4.7	4.4	4.1	4.0	3.6	3.4	3.3	3.9
SHADEMASTER III (PST-48Y7)	5.7	4.3	72.8	76.7	81.8	51.7	4.5	4.4	3.6	4.1	3.4	3.4	3.8	3.8
BOREAL	2.9	4.3	77.2	75.6	89.0	6.7	4.2	4.4	4.1	3.6	3.1	3.1	3.3	3.7
LSD VALUE	1.4	1.7	24.1	11.9	16.7	78.4	1.1	2.4	0.9	1.2	1.0	0.7	1.0	0.7
C.V. (%)	29.0	16.8	20.7	11.5	13.1	83.6	17.5	33.3	19.6	22.1	24.7	20.1	20.0	16.9

TABLE 20D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD CULTIVARS
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/
2010-12 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	PERCENT WINTER KILL	QUALITY RATINGS							MEAN
							APR	MAY	JUN	JUL	AUG	SEP	OCT	
BEACON (Z6300)	3.4	7.0	87.1	88.9	92.2	35.0	5.8	5.6	4.6	5.6	5.2	5.1	5.0	5.2
GOTHAM	4.8	7.3	80.6	83.9	89.9	28.3	5.7	5.1	4.4	4.2	4.9	4.9	5.0	4.8
SWORD (NC-HF1)	4.9	7.3	78.9	82.8	88.2	40.0	5.7	5.1	4.4	4.8	4.7	4.7	5.2	4.8
SPARTAN II	4.5	7.0	73.3	78.9	83.7	60.0	5.2	5.0	4.2	4.9	4.8	4.7	4.5	4.7
PST-4HES	4.4	7.0	77.8	82.8	90.8	63.3	5.0	4.7	4.3	4.3	4.7	4.4	5.2	4.6
BIGHORN GT (PST-4BU3)	7.9	7.3	81.7	82.8	90.6	63.3	5.0	4.3	4.0	4.3	4.6	4.7	4.7	4.5
LSD VALUE	0.6	1.1	22.2	16.7	15.0	66.7	1.5	1.7	1.4	1.3	2.0	1.4	2.1	1.2
C.V. (%)	14.0	6.2	19.5	13.9	11.8	58.1	16.7	25.3	21.5	22.9	26.9	19.9	22.4	18.5

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 21A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2010-12 DATA

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

NAME	SPRING GREENUP	PERCENT COVER	PERCENT COVER	PERCENT COVER	PERCENT LIVING GROUND COVER TRAFFIC MAY-SEPTEMBER IN 2012			MAY	JUN	JUL	AUG	RATINGS				MEAN
		SPRING	SUMMER	FALL	JULY	OCTOBER	NOVEMBER					SEP	OCT	NOV		
INTRIGUE 2	6.8	93.7	81.7	82.5	50.0	76.7	67.3	6.3	7.8	6.0	4.0	4.9	5.2	4.3	5.7	
LONGFELLOW 3 (IS-FRC-33)	7.0	95.3	73.3	84.2	53.3	80.0	63.0	6.4	8.1	6.3	3.4	4.4	5.4	4.3	5.7	
TREAZURE II	6.2	92.7	66.7	85.0	53.3	76.7	63.3	6.6	7.7	6.1	4.0	4.9	5.2	4.0	5.7	
WRIGLEY 2 (IS-FRC-35)	7.2	92.7	70.0	79.2	53.3	71.7	59.7	6.3	7.6	6.2	3.9	4.7	4.8	4.3	5.6	
NAVIGATOR II (MVS-OS-1)	8.0	94.8	73.3	80.8	63.3	61.7	65.7	5.7	7.4	6.1	3.8	4.8	5.0	4.7	5.5	
PSG 50C3	7.2	93.5	68.3	78.3	60.0	71.7	67.3	6.2	7.3	6.0	4.0	4.6	4.6	4.3	5.4	
RADAR (MVS-FRC-101)	6.7	93.7	73.3	82.5	53.3	78.3	72.3	6.0	7.8	5.8	3.3	4.4	4.9	4.3	5.4	
FAIRMONT (TCD)	7.0	93.7	76.7	77.5	50.0	70.0	71.0	6.3	7.7	5.4	3.4	4.3	4.4	4.0	5.3	
ZODIAC	7.2	91.2	71.7	76.7	36.7	66.7	60.3	5.9	7.7	5.9	3.2	4.2	4.2	3.7	5.2	
CHANTILLY (IS-FRR-62)	7.5	84.8	75.0	83.3	50.0	70.0	55.0	5.9	6.6	4.7	3.9	4.6	4.3	4.3	5.0	
PSG-5RM	6.5	85.8	61.7	80.0	53.3	65.0	65.0	5.3	6.8	5.2	3.7	4.2	4.4	3.3	4.9	
ROSECITY (IS-FRR-51)	6.7	87.2	60.0	73.3	43.3	68.3	54.0	5.2	6.7	5.1	3.4	4.0	4.0	3.7	4.7	
LACROSSE	7.5	85.2	60.0	80.8	46.7	60.0	57.7	5.6	6.0	4.6	3.3	4.0	4.2	3.3	4.6	
ABERDEEN	7.5	90.3	63.3	66.7	30.0	53.3	43.3	4.8	6.8	5.0	2.9	3.6	4.0	3.3	4.5	
SHADOW III (PST-4CSD)	6.3	76.7	55.0	61.7	50.0	58.3	51.7	5.0	6.6	4.9	3.1	3.8	3.9	3.3	4.5	
CASCADE	7.0	87.3	56.7	57.5	30.0	58.3	30.7	5.0	6.4	4.2	2.9	2.9	3.2	3.0	4.1	
EPIC	7.0	76.3	43.3	53.3	36.7	33.3	38.0	4.6	5.9	4.6	2.9	3.1	3.2	3.0	4.0	
SHADEMASTER III (PST-48Y7)	6.3	79.8	46.7	57.5	33.3	50.0	46.7	4.0	5.7	4.1	2.8	3.0	3.6	2.7	3.8	
SPARTAN II	6.8	70.8	35.0	48.3	50.0	48.3	41.3	4.1	5.2	4.2	3.1	2.8	3.2	3.0	3.8	
SWORD (NC-HF1)	7.7	62.2	40.0	56.7	46.7	43.3	36.7	3.2	5.4	3.3	2.6	2.2	3.1	2.3	3.3	
BEACON (Z6300)	6.7	59.2	31.7	42.5	40.0	40.0	33.7	2.9	4.6	3.7	2.7	2.7	2.7	2.7	3.2	
PST-4HES	7.2	54.2	30.0	45.0	23.3	33.3	23.3	3.1	5.0	3.2	2.7	2.6	2.3	2.3	3.1	
BIGHORN GT (PST-4BU3)	6.3	55.8	43.3	40.0	11.7	36.7	22.0	2.4	4.7	2.8	2.7	2.4	2.9	2.3	3.0	
BOREAL	6.5	69.2	6.7	29.2	11.7	16.7	18.0	3.2	4.1	2.3	1.7	1.8	2.0	2.0	2.5	
GOTHAM	7.3	38.3	25.0	11.7	11.7	21.7	12.3	1.9	3.3	2.2	1.6	1.8	1.8	2.0	2.1	
LSD VALUE	3.7	18.9	23.4	17.8	23.2	42.9	17.7	1.5	1.6	1.4	0.8	0.8	0.9	1.2	0.8	
C.V. (%)	19.6	20.9	25.9	25.7	32.1	37.2	23.1	35.3	27.8	32.6	27.1	26.0	27.5	21.5	21.8	

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.

Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP

TABLE 21B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2010-12 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/															
NAME	SPRING GREENUP	PERCENT COVER	PERCENT COVER	PERCENT COVER	PERCENT LIVING GROUND COVER			QUALITY RATINGS							
		SPRING	SUMMER	FALL	TRAFFIC	MAY-SEPTEMBER	IN 2012	JUL	AUG	SEP	OCT	NOV	MEAN		
					JULY	OCTOBER	NOVEMBER	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
INTRIGUE 2	6.8	93.7	81.7	82.5	50.0	76.7	67.3	6.3	7.8	6.0	4.0	4.9	5.2	4.3	5.7
LONGFELLOW 3 (IS-FRC-33)	7.0	95.3	73.3	84.2	53.3	80.0	63.0	6.4	8.1	6.3	3.4	4.4	5.4	4.3	5.7
TREAZURE II	6.2	92.7	66.7	85.0	53.3	76.7	63.3	6.6	7.7	6.1	4.0	4.9	5.2	4.0	5.7
WRIGLEY 2 (IS-FRC-35)	7.2	92.7	70.0	79.2	53.3	71.7	59.7	6.3	7.6	6.2	3.9	4.7	4.8	4.3	5.6
PSG 50C3	7.2	93.5	68.3	78.3	60.0	71.7	67.3	6.2	7.3	6.0	4.0	4.6	4.6	4.3	5.4
RADAR (MVS-FRC-101)	6.7	93.7	73.3	82.5	53.3	78.3	72.3	6.0	7.8	5.8	3.3	4.4	4.9	4.3	5.4
FAIRMONT (TCD)	7.0	93.7	76.7	77.5	50.0	70.0	71.0	6.3	7.7	5.4	3.4	4.3	4.4	4.0	5.3
ZODIAC	7.2	91.2	71.7	76.7	36.7	66.7	60.3	5.9	7.7	5.9	3.2	4.2	4.2	3.7	5.2
LACROSSE	7.5	85.2	60.0	80.8	46.7	60.0	57.7	5.6	6.0	4.6	3.3	4.0	4.2	3.3	4.6
SHADOW III (PST-4CSD)	6.3	76.7	55.0	61.7	50.0	58.3	51.7	5.0	6.6	4.9	3.1	3.8	3.9	3.3	4.5
CASCADE	7.0	87.3	56.7	57.5	30.0	58.3	30.7	5.0	6.4	4.2	2.9	2.9	3.2	3.0	4.1
LSD VALUE	3.2	17.5	22.1	18.1	35.1	44.1	17.9	3.6	2.1	2.5	1.2	1.0	1.1	2.0	1.1
C.V. (%)	20.6	11.9	14.8	17.6	28.2	22.8	16.3	34.4	21.7	32.4	26.4	22.5	24.4	20.2	19.4

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 21C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2010-12 DATA

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

NAME	SPRING GREENUP	PERCENT COVER	PERCENT COVER	PERCENT COVER	PERCENT LIVING GROUND COVER TRAFFIC MAY-SEPTEMBER IN 2012			MAY	JUN	JUL	QUALITY RATINGS					MEAN
		SPRING	SUMMER	FALL	JULY	OCTOBER	NOVEMBER				AUG	SEP	OCT	NOV		
NAVIGATOR II (MVS-OS-1)	8.0	94.8	73.3	80.8	63.3	61.7	65.7	5.7	7.4	6.1	3.8	4.8	5.0	4.7	5.5	
CHANTILLY (IS-FRR-62)	7.5	84.8	75.0	83.3	50.0	70.0	55.0	5.9	6.6	4.7	3.9	4.6	4.3	4.3	5.0	
PSG-5RM	6.5	85.8	61.7	80.0	53.3	65.0	65.0	5.3	6.8	5.2	3.7	4.2	4.4	3.3	4.9	
ROSECITY (IS-FRR-51)	6.7	87.2	60.0	73.3	43.3	68.3	54.0	5.2	6.7	5.1	3.4	4.0	4.0	3.7	4.7	
ABERDEEN	7.5	90.3	63.3	66.7	30.0	53.3	43.3	4.8	6.8	5.0	2.9	3.6	4.0	3.3	4.5	
EPIC	7.0	76.3	43.3	53.3	36.7	33.3	38.0	4.6	5.9	4.6	2.9	3.1	3.2	3.0	4.0	
SHADEMASTER III (PST-48Y7)	6.3	79.8	46.7	57.5	33.3	50.0	46.7	4.0	5.7	4.1	2.8	3.0	3.6	2.7	3.8	
BOREAL	6.5	69.2	6.7	29.2	11.7	16.7	18.0	3.2	4.1	2.3	1.7	1.8	2.0	2.0	2.5	
LSD VALUE	2.5	25.7	21.4	20.9	21.7	47.6	25.8	1.6	2.0	1.4	0.7	0.9	1.0	1.2	0.9	
C.V. (%)	20.3	19.3	23.3	27.8	29.8	42.4	28.1	32.0	29.8	31.5	25.6	28.2	28.7	19.0	23.5	

TABLE 21D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS
GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/
2010-12 DATA

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

NAME	SPRING GREENUP	PERCENT COVER	PERCENT COVER	PERCENT COVER	PERCENT LIVING GROUND COVER TRAFFIC MAY-SEPTEMBER IN 2012			MAY	JUN	JUL	QUALITY RATINGS					MEAN
		SPRING	SUMMER	FALL	JULY	OCTOBER	NOVEMBER				AUG	SEP	OCT	NOV		
SPARTAN II	6.8	70.8	35.0	48.3	50.0	48.3	41.3	4.1	5.2	4.2	3.1	2.8	3.2	3.0	3.8	
SWORD (NC-HF1)	7.7	62.2	40.0	56.7	46.7	43.3	36.7	3.2	5.4	3.3	2.6	2.2	3.1	2.3	3.3	
BEACON (Z6300)	6.7	59.2	31.7	42.5	40.0	40.0	33.7	2.9	4.6	3.7	2.7	2.7	2.7	2.7	3.2	
PST-4HES	7.2	54.2	30.0	45.0	23.3	33.3	23.3	3.1	5.0	3.2	2.7	2.6	2.3	2.3	3.1	
BIGHORN GT (PST-4BU3)	6.3	55.8	43.3	40.0	11.7	36.7	22.0	2.4	4.7	2.8	2.7	2.4	2.9	2.3	3.0	
GOTHAM	7.3	38.3	25.0	11.7	11.7	21.7	12.3	1.9	3.3	2.2	1.6	1.8	1.8	2.0	2.1	
LSD VALUE	2.1	42.3	56.9	25.3	33.8	56.6	20.3	1.3	2.6	1.1	0.8	0.9	1.0	1.9	0.8	
C.V. (%)	17.6	45.1	65.1	48.7	54.3	61.1	35.7	43.4	42.7	32.7	32.2	32.7	35.6	31.4	26.5	

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 22A.

MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS
USING RECYCLED WATER AT PALO ALTO, CA 1/
2009-13 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BOREAL	6.3	6.2	6.4	6.5	7.4	6.9	6.7	7.3	7.6	7.3	7.3	7.3	7.1
CHANTILLY (IS-FRR-62)	6.8	6.4	6.4	6.5	6.7	6.9	6.6	7.2	7.5	7.3	7.3	7.3	7.1
WRIGLEY 2 (IS-FRC-35)	6.6	6.3	6.3	6.4	6.7	6.5	6.8	7.1	7.3	7.1	7.3	7.0	7.0
NAVIGATOR II (MVS-OS-1)	7.2	6.9	6.9	6.9	6.8	6.6	6.3	6.6	6.8	6.8	7.1	7.7	6.9
PSG-5RM	6.7	6.4	6.4	6.5	6.3	6.5	6.4	6.9	7.2	7.1	7.1	7.0	6.9
TREAZURE II	6.2	5.8	6.0	6.5	6.3	6.3	6.6	7.1	7.3	7.1	7.3	7.1	6.9
FAIRMONT (TCD)	6.3	6.2	6.3	6.6	6.3	6.2	5.9	6.7	7.2	6.9	6.9	7.3	6.8
INTRIGUE 2	6.4	6.3	6.3	6.5	6.2	6.1	6.3	6.9	7.3	7.0	7.0	6.8	6.8
PST-4HES	6.4	6.2	6.3	6.9	6.9	6.4	6.9	7.1	7.2	6.9	7.3	6.7	6.8
ABERDEEN	6.6	6.3	6.4	6.5	6.3	6.7	6.4	6.6	6.9	6.8	6.9	7.3	6.7
EPIC	6.6	6.2	6.0	6.3	6.3	6.1	6.2	6.7	6.9	6.8	6.9	7.1	6.7
LACROSSE	6.5	6.3	6.5	6.4	6.2	5.6	5.6	6.6	6.9	6.7	6.8	7.1	6.7
SHADOW III (PST-4CSD)	6.5	6.3	6.4	6.6	6.4	6.1	6.3	6.6	7.1	6.7	6.7	6.8	6.7
SWORD (NC-HF1)	6.2	5.9	5.9	6.6	6.7	6.7	6.8	6.8	7.0	6.9	6.9	6.9	6.7
BEACON (Z6300)	6.7	6.2	5.8	6.3	6.1	6.2	6.6	6.8	6.6	6.5	6.8	6.9	6.6
CASCADE	6.7	6.2	6.2	6.5	6.3	6.2	6.0	6.5	6.8	6.7	6.9	7.1	6.6
ROSECITY (IS-FRR-51)	6.6	6.0	6.3	6.3	6.3	6.3	6.5	6.7	6.6	6.5	6.7	7.2	6.6
SHADEMASTER III (PST-48Y7)	6.7	6.2	6.1	6.1	6.3	5.8	6.0	6.5	6.7	6.9	7.1	7.2	6.6
SPARTAN II	6.3	5.8	5.7	6.6	6.2	6.4	6.4	6.7	6.8	6.6	6.8	6.7	6.5
GOTHAM	5.8	5.5	5.8	6.1	6.2	6.2	6.3	6.5	6.6	6.5	6.5	6.8	6.4
LONGFELLOW 3 (IS-FRC-33)	6.1	5.8	5.9	6.0	5.8	5.6	5.3	6.1	6.7	6.7	6.9	7.0	6.4
PSG 50C3	6.1	5.8	5.9	5.6	5.6	5.6	5.6	6.4	6.7	6.5	6.6	6.8	6.3
ZODIAC	6.2	6.0	6.1	6.2	5.8	5.5	5.1	6.0	6.6	6.4	6.7	6.9	6.3
BIGHORN GT (PST-4BU3)	5.8	5.8	5.6	6.0	6.6	6.3	6.3	6.1	6.2	6.0	6.1	6.3	6.2
RADAR (MVS-FRC-101)	5.9	5.7	5.8	5.7	5.5	5.3	5.2	6.1	6.5	6.4	6.3	6.7	6.2
LSD VALUE	2.3	1.6	1.9	1.5	0.8	0.8	0.9	1.2	1.0	1.1	1.3	1.4	1.0
C.V. (%)	19.1	16.2	17.2	15.6	13.6	14.5	16.4	16.0	14.1	14.3	15.2	12.8	12.5

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

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

TABLE 22B.

MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS
USING RECYCLED WATER AT PALO ALTO, CA 1/
2009-13 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
WRIGLEY 2 (IS-FRC-35)	6.6	6.3	6.3	6.4	6.7	6.5	6.8	7.1	7.3	7.1	7.3	7.0	7.0
TREAZURE II	6.2	5.8	6.0	6.5	6.3	6.3	6.6	7.1	7.3	7.1	7.3	7.1	6.9
FAIRMONT (TCD)	6.3	6.2	6.3	6.6	6.3	6.2	5.9	6.7	7.2	6.9	6.9	7.3	6.8
INTRIGUE 2	6.4	6.3	6.3	6.5	6.2	6.1	6.3	6.9	7.3	7.0	7.0	6.8	6.8
LACROSSE	6.5	6.3	6.5	6.4	6.2	5.6	5.6	6.6	6.9	6.7	6.8	7.1	6.7
SHADOW III (PST-4CSD)	6.5	6.3	6.4	6.6	6.4	6.1	6.3	6.6	7.1	6.7	6.7	6.8	6.7
CASCADE	6.7	6.2	6.2	6.5	6.3	6.2	6.0	6.5	6.8	6.7	6.9	7.1	6.6
LONGFELLOW 3 (IS-FRC-33)	6.1	5.8	5.9	6.0	5.8	5.6	5.3	6.1	6.7	6.7	6.9	7.0	6.4
PSG 50C3	6.1	5.8	5.9	5.6	5.6	5.6	5.6	6.4	6.7	6.5	6.6	6.8	6.3
ZODIAC	6.2	6.0	6.1	6.2	5.8	5.5	5.1	6.0	6.6	6.4	6.7	6.9	6.3
RADAR (MVS-FRC-101)	5.9	5.7	5.8	5.7	5.5	5.3	5.2	6.1	6.5	6.4	6.3	6.7	6.2
LSD VALUE	2.1	1.7	1.9	1.2	1.2	1.1	1.0	1.2	1.2	1.2	1.3	1.5	1.0
C.V. (%)	20.3	17.6	18.3	16.5	16.6	16.8	18.6	18.0	15.4	14.5	15.9	12.9	13.9

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

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

Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP

TABLE 22C. MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS
USING RECYCLED WATER AT PALO ALTO, CA 1/
2009-13 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BOREAL	6.3	6.2	6.4	6.5	7.4	6.9	6.7	7.3	7.6	7.3	7.3	7.3	7.1
CHANTILLY (IS-FRR-62)	6.8	6.4	6.4	6.5	6.7	6.9	6.6	7.2	7.5	7.3	7.3	7.3	7.1
NAVIGATOR II (MVS-OS-1)	7.2	6.9	6.9	6.9	6.8	6.6	6.3	6.6	6.8	6.8	7.1	7.7	6.9
PSG-5RM	6.7	6.4	6.4	6.5	6.3	6.5	6.4	6.9	7.2	7.1	7.1	7.0	6.9
ABERDEEN	6.6	6.3	6.4	6.5	6.3	6.7	6.4	6.6	6.9	6.8	6.9	7.3	6.7
EPIC	6.6	6.2	6.0	6.3	6.3	6.1	6.2	6.7	6.9	6.8	6.9	7.1	6.7
ROSECITY (IS-FRR-51)	6.6	6.0	6.3	6.3	6.3	6.3	6.5	6.7	6.6	6.5	6.7	7.2	6.6
SHADEMASTER III (PST-48Y7)	6.7	6.2	6.1	6.1	6.3	5.8	6.0	6.5	6.7	6.9	7.1	7.2	6.6
LSD VALUE	1.8	1.2	1.4	1.3	0.5	0.7	1.3	1.0	0.7	1.0	1.2	1.3	0.8
C.V. (%)	18.4	15.3	16.6	15.0	10.3	12.1	14.5	14.1	12.2	13.3	14.3	12.9	10.6

TABLE 22D. MEAN TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS
USING RECYCLED WATER AT PALO ALTO, CA 1/
2009-13 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PST-4HES	6.4	6.2	6.3	6.9	6.9	6.4	6.9	7.1	7.2	6.9	7.3	6.7	6.8
SWORD (NC-HF1)	6.2	5.9	5.9	6.6	6.7	6.7	6.8	6.8	7.0	6.9	6.9	6.9	6.7
BEACON (Z6300)	6.7	6.2	5.8	6.3	6.1	6.2	6.6	6.8	6.6	6.5	6.8	6.9	6.6
SPARTAN II	6.3	5.8	5.7	6.6	6.2	6.4	6.4	6.7	6.8	6.6	6.8	6.7	6.5
GOETHAM	5.8	5.5	5.8	6.1	6.2	6.2	6.3	6.5	6.6	6.5	6.5	6.8	6.4
BIGHORN GT (PST-4BU3)	5.8	5.8	5.6	6.0	6.6	6.3	6.3	6.1	6.2	6.0	6.1	6.3	6.2
LSD VALUE	1.4	1.1	1.3	1.2	0.8	1.2	1.4	0.9	0.9	1.1	1.0	1.1	0.9
C.V. (%)	18.2	14.8	16.2	14.5	11.0	13.2	15.1	13.9	13.6	15.3	15.2	12.4	12.1

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

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

2009-13 DATA

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

NAME	CA1	IL1	MD1	MN1	NE1	NJ2	PA1	RI1	UT1	VA1	WA3	MEAN
BIGHORN GT (PST-4BU3)	8.5	5.9	8.0	7.8	7.1	6.6	8.7	6.8	5.6	6.8	5.2	6.7
PSG-5RM	8.0	5.9	7.7	5.6	7.4	6.7	6.0	6.0	8.2	6.8	5.8	6.7
NAVIGATOR II (MVS-OS-1)	8.0	6.0	6.7	5.4	7.2	6.5	5.3	6.0	8.3	6.9	5.8	6.6
GOTHAM	8.5	5.8	7.3	4.5	6.9	6.6	7.7	7.4	6.6	6.5	6.0	6.5
SHADEMASTER III (PST-48Y7)	7.7	6.1	7.0	5.6	7.1	6.1	5.4	6.8	7.7	7.1	5.7	6.5
SWORD (NC-HF1)	8.3	6.1	7.7	4.5	7.1	6.1	8.3	7.0	6.6	6.2	6.1	6.5
LACROSSE	7.8	6.3	6.7	6.0	7.1	6.6	6.1	6.1	6.7	6.7	5.8	6.5
CASCADE	8.2	6.2	7.0	5.8	6.7	7.1	7.3	5.4	6.5	6.5	5.5	6.4
RADAR (MVS-FRC-101)	7.2	6.1	7.7	6.3	7.2	6.8	5.9	5.1	6.9	6.1	6.7	6.4
SPARTAN II	7.0	5.9	7.7	4.3	7.1	6.3	7.6	7.2	6.4	6.4	6.3	6.4
PSG 50C3	7.3	6.3	7.7	6.2	7.3	6.3	6.4	4.8	6.8	6.2	6.5	6.4
ROSECITY (IS-FRR-51)	7.0	6.1	7.0	4.8	7.0	6.1	5.0	6.3	7.8	6.8	5.8	6.3
FAIRMONT (TCD)	7.5	5.8	7.7	6.2	6.7	6.6	5.4	5.4	6.5	6.6	6.1	6.3
PST-4HES	7.7	5.6	7.0	4.3	6.7	6.1	7.4	6.8	5.9	6.7	6.3	6.3
ABERDEEN	8.3	5.7	6.7	4.3	6.9	6.2	6.0	6.3	7.1	6.6	5.4	6.2
LONGFELLOW 3 (IS-FRC-33)	7.5	6.1	5.7	5.4	6.8	6.1	5.8	5.3	6.7	6.6	5.9	6.2
CHANTILLY (IS-FRR-62)	7.2	6.0	5.3	5.2	6.7	6.3	4.6	5.9	7.1	6.8	5.8	6.2
ZODIAC	7.0	6.0	7.0	5.9	6.7	6.5	6.3	4.4	6.3	6.6	5.5	6.1
EPIC	6.8	5.7	5.7	4.5	6.6	6.7	5.0	6.7	7.1	6.2	5.5	6.1
SHADOW III (PST-4CSD)	8.0	5.7	7.0	6.1	6.3	6.3	6.3	5.9	5.5	6.0	5.0	6.0
BEACON (Z6300)	7.7	5.6	7.0	3.3	7.1	5.0	6.6	5.3	5.9	6.3	5.9	5.8
INTRIGUE 2	7.7	5.9	6.3	4.8	6.7	5.3	5.0	4.9	5.5	6.1	5.5	5.7
WRIGLEY 2 (IS-FRC-35)	7.7	5.9	5.7	4.6	6.7	5.0	5.3	5.3	5.5	5.6	5.1	5.6
TREAZURE II	7.2	5.8	5.0	4.6	6.5	5.3	5.0	5.4	5.1	5.7	5.3	5.5
BOREAL	7.7	5.9	4.3	2.7	6.3	6.5	5.6	5.9	5.0	5.9	4.3	5.5
LSD VALUE	1.7	1.0	0.7	1.1	1.0	1.5	1.2	1.8	1.4	1.3	1.1	0.5
C.V. (%)	13.6	10.1	6.9	13.3	8.8	15.2	11.7	18.9	13.2	12.4	11.9	12.8

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.

2009-13 DATA

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

NAME	CA1	IL1	MD1	MN1	NE1	NJ2	PA1	RI1	UT1	VA1	WA3	MEAN
LACROSSE	7.8	6.3	6.7	6.0	7.1	6.6	6.1	6.1	6.7	6.7	5.8	6.5
CASCADE	8.2	6.2	7.0	5.8	6.7	7.1	7.3	5.4	6.5	6.5	5.5	6.4
RADAR (MVS-FRC-101)	7.2	6.1	7.7	6.3	7.2	6.8	5.9	5.1	6.9	6.1	6.7	6.4
PSG 50C3	7.3	6.3	7.7	6.2	7.3	6.3	6.4	4.8	6.8	6.2	6.5	6.4
FAIRMONT (TCD)	7.5	5.8	7.7	6.2	6.7	6.6	5.4	5.4	6.5	6.6	6.1	6.3
LONGFELLOW 3 (IS-FRC-33)	7.5	6.1	5.7	5.4	6.8	6.1	5.8	5.3	6.7	6.6	5.9	6.2
ZODIAC	7.0	6.0	7.0	5.9	6.7	6.5	6.3	4.4	6.3	6.6	5.5	6.1
SHADOW III (PST-4CSD)	8.0	5.7	7.0	6.1	6.3	6.3	6.3	5.9	5.5	6.0	5.0	6.0
INTRIGUE 2	7.7	5.9	6.3	4.8	6.7	5.3	5.0	4.9	5.5	6.1	5.5	5.7
WRIGLEY 2 (IS-FRC-35)	7.7	5.9	5.7	4.6	6.7	5.0	5.3	5.3	5.5	5.6	5.1	5.6
TREAZURE II	7.2	5.8	5.0	4.6	6.5	5.3	5.0	5.4	5.1	5.7	5.3	5.5
LSD VALUE	1.7	1.0	0.7	1.2	1.0	1.5	1.2	1.5	1.4	1.0	1.0	0.5
C.V. (%)	14.4	11.0	6.9	13.3	9.2	15.7	12.9	18.6	14.7	10.1	11.2	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.

2009-13 DATA

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

NAME	CA1	IL1	MD1	MN1	NE1	NJ2	PA1	RI1	UT1	VA1	WA3	MEAN
PSG-5RM	8.0	5.9	7.7	5.6	7.4	6.7	6.0	6.0	8.2	6.8	5.8	6.7
NAVIGATOR II (MVS-OS-1)	8.0	6.0	6.7	5.4	7.2	6.5	5.3	6.0	8.3	6.9	5.8	6.6
SHADEMASTER III (PST-48Y7)	7.7	6.1	7.0	5.6	7.1	6.1	5.4	6.8	7.7	7.1	5.7	6.5
ROSECITY (IS-FRR-51)	7.0	6.1	7.0	4.8	7.0	6.1	5.0	6.3	7.8	6.8	5.8	6.3
ABERDEEN	8.3	5.7	6.7	4.3	6.9	6.2	6.0	6.3	7.1	6.6	5.4	6.2
CHANTILLY (IS-FRR-62)	7.2	6.0	5.3	5.2	6.7	6.3	4.6	5.9	7.1	6.8	5.8	6.2
EPIC	6.8	5.7	5.7	4.5	6.6	6.7	5.0	6.7	7.1	6.2	5.5	6.1
BOREAL	7.7	5.9	4.3	2.7	6.3	6.5	5.6	5.9	5.0	5.9	4.3	5.5
LSD VALUE	1.6	1.0	0.8	1.0	1.0	1.3	1.2	2.1	1.4	1.0	1.1	0.5
C.V. (%)	13.1	10.5	7.9	13.9	8.7	13.2	13.7	21.2	12.0	9.8	13.5	12.6

TABLE 23D.

GENETIC COLOR RATINGS OF HARD FESCUE CULTIVARS 1/

2009-13 DATA

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

NAME	CA1	IL1	MD1	MN1	NE1	NJ2	PA1	RI1	UT1	VA1	WA3	MEAN
BIGHORN GT (PST-4BU3)	8.5	5.9	8.0	7.8	7.1	6.6	8.7	6.8	5.6	6.8	5.2	6.7
GOTHAM	8.5	5.8	7.3	4.5	6.9	6.6	7.7	7.4	6.6	6.5	6.0	6.5
SWORD (NC-HF1)	8.3	6.1	7.7	4.5	7.1	6.1	8.3	7.0	6.6	6.2	6.1	6.5
SPARTAN II	7.0	5.9	7.7	4.3	7.1	6.3	7.6	7.2	6.4	6.4	6.3	6.4
PST-4HES	7.7	5.6	7.0	4.3	6.7	6.1	7.4	6.8	5.9	6.7	6.3	6.3
BEACON (Z6300)	7.7	5.6	7.0	3.3	7.1	5.0	6.6	5.3	5.9	6.3	5.9	5.8
LSD VALUE	1.6	0.8	0.7	1.0	0.9	1.6	1.0	1.5	1.2	1.8	1.0	0.5
C.V. (%)	12.8	8.2	5.5	12.4	7.9	16.1	8.0	15.0	12.1	16.9	11.0	12.5

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

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

2009-13 DATA

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

NAME	IL1	MN1	NE1	NJ2	NY1	PA1	RI1	UT1	WA3	MEAN
NAVIGATOR II (MVS-OS-1)	5.1	5.0	6.2	5.5	3.7	6.7	5.7	5.3	5.8	5.6
CASCADE	4.7	6.7	6.0	6.0	4.2	6.2	5.9	5.0	5.5	5.6
BOREAL	5.3	4.3	6.1	6.3	3.3	6.0	7.9	3.8	5.2	5.5
ABERDEEN	5.1	3.3	6.1	6.0	4.5	5.7	6.3	4.7	5.5	5.5
EPIC	5.3	4.3	6.4	6.0	3.8	4.7	5.6	4.0	5.5	5.4
FAIRMONT (TCD)	4.8	6.7	5.5	4.5	4.2	6.0	5.1	5.3	5.5	5.4
ROSECITY (IS-FRR-51)	5.1	4.0	5.7	4.5	3.8	5.0	6.3	5.5	5.2	5.4
BIGHORN GT (PST-4BU3)	4.5	7.3	5.8	4.8	2.7	6.5	5.8	5.1	5.2	5.4
SHADOW III (PST-4CSD)	4.7	6.3	5.8	5.7	3.7	6.3	5.8	4.0	5.2	5.3
RADAR (MVS-FRC-101)	4.5	6.0	5.7	4.7	4.3	5.3	5.0	4.9	5.8	5.3
ZODIAC	4.9	7.0	5.5	4.0	3.8	6.3	4.8	4.8	5.2	5.3
LACROSSE	4.8	6.0	5.9	5.0	3.8	5.3	5.3	4.7	4.8	5.2
PST-4HES	4.5	7.0	4.9	5.7	3.2	7.3	4.4	5.3	5.5	5.2
SHADEMASTER III (PST-48Y7)	4.8	4.3	5.7	5.0	3.3	5.7	5.8	4.2	5.5	5.2
SWORD (NC-HF1)	4.5	7.3	4.8	4.7	3.3	6.2	4.4	6.0	5.2	5.2
INTRIGUE 2	5.1	6.7	5.3	4.3	3.8	5.5	5.3	4.5	4.5	5.1
SPARTAN II	4.0	7.0	4.7	5.2	3.2	7.2	5.2	6.1	4.8	5.1
WRIGLEY 2 (IS-FRC-35)	4.3	7.0	5.8	4.0	3.7	5.8	5.1	4.4	4.8	5.1
TREAZURE II	4.8	5.7	5.5	4.7	3.3	5.3	5.5	4.1	5.3	5.1
CHANTILLY (IS-FRR-62)	4.9	4.3	5.5	5.7	3.3	6.2	4.3	5.2	5.5	5.1
GOTHAM	3.7	7.3	4.7	4.2	2.8	7.8	4.9	6.0	5.2	5.0
PSG 50C3	4.2	5.7	5.3	3.7	4.3	5.2	5.6	4.5	5.5	5.0
BEACON (Z6300)	3.4	7.0	5.0	4.5	2.3	7.2	4.1	6.3	4.8	4.9
LONGFELLOW 3 (IS-FRC-33)	4.3	6.0	5.5	3.8	4.5	5.0	4.8	4.7	4.8	4.9
PSG-5RM	4.7	4.0	5.8	5.2	3.7	4.8	3.9	4.3	5.5	4.9
LSD VALUE	1.4	1.2	1.2	1.4	1.4	1.5	2.0	1.8	1.3	0.7
C.V. (%)	18.9	12.6	15.6	17.6	24.1	15.3	24.4	22.9	15.4	18.5

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.

2009-13 DATA

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

NAME	IL1	MN1	NE1	NJ2	NY1	PA1	RI1	UT1	WA3	MEAN
CASCADE	4.7	6.7	6.0	6.0	4.2	6.2	5.9	5.0	5.5	5.6
FAIRMONT (TCD)	4.8	6.7	5.5	4.5	4.2	6.0	5.1	5.3	5.5	5.4
SHADOW III (PST-4CSD)	4.7	6.3	5.8	5.7	3.7	6.3	5.8	4.0	5.2	5.3
RADAR (MVS-FRC-101)	4.5	6.0	5.7	4.7	4.3	5.3	5.0	4.9	5.8	5.3
ZODIAC	4.9	7.0	5.5	4.0	3.8	6.3	4.8	4.8	5.2	5.3
LACROSSE	4.8	6.0	5.9	5.0	3.8	5.3	5.3	4.7	4.8	5.2
INTRIGUE 2	5.1	6.7	5.3	4.3	3.8	5.5	5.3	4.5	4.5	5.1
WRIGLEY 2 (IS-FRC-35)	4.3	7.0	5.8	4.0	3.7	5.8	5.1	4.4	4.8	5.1
TREAZURE II	4.8	5.7	5.5	4.7	3.3	5.3	5.5	4.1	5.3	5.1
PSG 50C3	4.2	5.7	5.3	3.7	4.3	5.2	5.6	4.5	5.5	5.0
LONGFELLOW 3 (IS-FRC-33)	4.3	6.0	5.5	3.8	4.5	5.0	4.8	4.7	4.8	4.9
LSD VALUE	1.3	1.3	1.2	1.3	1.2	1.6	1.3	1.7	1.0	0.6
C.V. (%)	17.6	12.6	14.6	17.4	19.2	17.1	15.4	22.6	11.5	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.

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
NAME	IL1	MN1	NE1	NJ2	NY1	PA1	RI1	UT1	WA3	MEAN
NAVIGATOR II (MVS-OS-1)	5.1	5.0	6.2	5.5	3.7	6.7	5.7	5.3	5.8	5.6
BOREAL	5.3	4.3	6.1	6.3	3.3	6.0	7.9	3.8	5.2	5.5
ABERDEEN	5.1	3.3	6.1	6.0	4.5	5.7	6.3	4.7	5.5	5.5
EPIC	5.3	4.3	6.4	6.0	3.8	4.7	5.6	4.0	5.5	5.4
ROSECITY (IS-FRR-51)	5.1	4.0	5.7	4.5	3.8	5.0	6.3	5.5	5.2	5.4
SHADEMASTER III (PST-48Y7)	4.8	4.3	5.7	5.0	3.3	5.7	5.8	4.2	5.5	5.2
CHANTILLY (IS-FRR-62)	4.9	4.3	5.5	5.7	3.3	6.2	4.3	5.2	5.5	5.1
PSG-5RM	4.7	4.0	5.8	5.2	3.7	4.8	3.9	4.3	5.5	4.9
LSD VALUE	1.1	1.4	1.1	1.4	1.5	1.6	2.3	1.9	1.0	0.7
C.V. (%)	14.4	20.0	11.3	16.1	24.8	18.3	25.3	24.9	11.3	17.8

TABLE 24D. SPRING GREENUP RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/										
NAME	IL1	MN1	NE1	NJ2	NY1	PA1	RI1	UT1	WA3	MEAN
BIGHORN GT (PST-4BU3)	4.5	7.3	5.8	4.8	2.7	6.5	5.8	5.1	5.2	5.4
PST-4HES	4.5	7.0	4.9	5.7	3.2	7.3	4.4	5.3	5.5	5.2
SWORD (NC-HF1)	4.5	7.3	4.8	4.7	3.3	6.2	4.4	6.0	5.2	5.2
SPARTAN II	4.0	7.0	4.7	5.2	3.2	7.2	5.2	6.1	4.8	5.1
GOTHAM	3.7	7.3	4.7	4.2	2.8	7.8	4.9	6.0	5.2	5.0
BEACON (Z6300)	3.4	7.0	5.0	4.5	2.3	7.2	4.1	6.3	4.8	4.9
LSD VALUE	1.6	0.7	1.5	1.6	1.3	1.0	2.5	1.9	2.0	0.8
C.V. (%)	36.0	5.7	52.5	19.8	28.0	8.5	39.8	22.5	24.5	23.7

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 25A. LEAF TEXTURE RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2009-13 DATA

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

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

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

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

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

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

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

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

TABLE 23C. LEAF TEXTURE RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

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

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

TABLE 25D. LEAF TEXTURE RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

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

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

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

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

2009-13 DATA

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

NAME	NY1	PA1	WA3	MEAN
FAIRMONT (TCD)	6.0	9.0	7.7	7.6
ZODIAC	5.3	7.7	8.0	7.0
RADAR (MVS-FRC-101)	5.7	7.3	7.3	6.8
EPIC	6.3	6.3	6.3	6.3
CASCADE	6.0	5.0	7.0	6.0
TREAZURE II	5.3	6.3	6.3	6.0
BEACON (Z6300)	6.0	6.7	5.3	6.0
CHANTILLY (IS-FRR-62)	7.0	5.0	5.7	5.9
BIGHORN GT (PST-4BU3)	5.0	7.3	5.3	5.9
INTRIGUE 2	6.3	5.3	6.0	5.9
GOTHAM	5.3	6.3	5.7	5.8
LACROSSE	6.0	4.3	6.7	5.7
ROSECITY (IS-FRR-51)	5.0	5.7	6.0	5.6
NAVIGATOR II (MVS-OS-1)	5.3	6.0	5.3	5.6
LONGFELLOW 3 (IS-FRC-33)	6.0	4.7	5.7	5.4
WRIGLEY 2 (IS-FRC-35)	5.3	3.7	6.7	5.2
ABERDEEN	5.0	4.0	6.0	5.0
PST-4HES	4.0	6.0	5.0	5.0
SPARTAN II	6.0	4.3	4.3	4.9
PSG-5RM	4.7	4.3	5.0	4.7
PSG 50C3	4.7	3.7	5.3	4.6
SHADEMASTER III (PST-48Y7)	6.0	3.0	4.0	4.3
SHADOW III (PST-4CSD)	4.3	3.7	4.3	4.1
SWORD (NC-HF1)	4.0	3.7	3.7	3.8
BOREAL	2.3	4.3	3.7	3.4
LSD VALUE	2.2	1.2	1.5	1.0
C.V. (%)	25.8	13.5	16.4	19.1

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

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

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

NAME	NY1	PA1	WA3	MEAN
FAIRMONT (TCD)	6.0	9.0	7.7	7.6
ZODIAC	5.3	7.7	8.0	7.0
RADAR (MVS-FRC-101)	5.7	7.3	7.3	6.8
CASCADE	6.0	5.0	7.0	6.0
TREAZURE II	5.3	6.3	6.3	6.0
INTRIGUE 2	6.3	5.3	6.0	5.9
LACROSSE	6.0	4.3	6.7	5.7
LONGFELLOW 3 (IS-FRC-33)	6.0	4.7	5.7	5.4
WRIGLEY 2 (IS-FRC-35)	5.3	3.7	6.7	5.2
PSG 50C3	4.7	3.7	5.3	4.6
SHADOW III (PST-4CSD)	4.3	3.7	4.3	4.1
LSD VALUE	2.4	1.1	1.4	1.0
C.V. (%)	27.4	12.2	13.8	18.6

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

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

TABLE 26C. SEEDLING VIGOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/				
NAME	NY1	PA1	WA3	MEAN
EPIC	6.3	6.3	6.3	6.3
CHANTILLY (IS-FRR-62)	7.0	5.0	5.7	5.9
ROSECITY (IS-FRR-51)	5.0	5.7	6.0	5.6
NAVIGATOR II (MVS-OS-1)	5.3	6.0	5.3	5.6
ABERDEEN	5.0	4.0	6.0	5.0
PSG-5RM	4.7	4.3	5.0	4.7
SHADEMASTER III (PST-48Y7)	6.0	3.0	4.0	4.3
BOREAL	2.3	4.3	3.7	3.4
LSD VALUE	1.5	1.3	1.6	0.9
C.V. (%)	18.4	16.9	19.4	18.4

TABLE 26D. SEEDLING VIGOR RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/				
NAME	NY1	PA1	WA3	MEAN
BEACON (Z6300)	6.0	6.7	5.3	6.0
BIGHORN GT (PST-4BU3)	5.0	7.3	5.3	5.9
GOTHAM	5.3	6.3	5.7	5.8
PST-4HES	4.0	6.0	5.0	5.0
SPARTAN II	6.0	4.3	4.3	4.9
SWORD (NC-HF1)	4.0	3.7	3.7	3.8
LSD VALUE	2.5	1.1	1.4	1.0
C.V. (%)	30.6	11.7	18.0	21.0

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

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

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

NAME	MD1	NE1	RI1	VA1	WA3	MEAN
LONGFELLOW 3 (IS-FRC-33)	6.0	7.2	9.0	7.7	8.7	7.4
BIGHORN GT (PST-4BU3)	8.3	6.7	5.0	6.3	7.7	6.9
SPARTAN II	8.7	4.8	7.3	7.0	7.0	6.9
INTRIGUE 2	4.3	6.7	8.3	8.0	8.7	6.9
BEACON (Z6300)	8.3	5.0	7.7	6.7	7.0	6.8
RADAR (MVS-FRC-101)	5.7	6.2	8.0	7.7	7.7	6.8
WRIGLEY 2 (IS-FRC-35)	5.7	6.5	9.0	6.3	8.7	6.8
ZODIAC	5.7	7.2	7.0	6.3	8.3	6.7
CHANTILLY (IS-FRR-62)	5.3	6.5	5.0	8.0	8.3	6.6
FAIRMONT (TCD)	4.0	6.2	8.7	8.0	8.0	6.6
SHADOW III (PST-4CSD)	5.3	7.2	5.3	7.0	8.3	6.6
TREAZURE II	5.3	5.8	8.3	6.7	8.7	6.6
PSG 50C3	4.3	7.2	7.0	7.3	7.3	6.5
PSG-5RM	4.3	6.8	5.0	8.0	7.7	6.4
SWORD (NC-HF1)	7.3	4.5	6.3	7.0	7.0	6.4
LACROSSE	5.0	7.0	7.3	5.7	8.0	6.3
CASCADE	4.3	7.3	5.7	6.3	9.0	6.3
GOTHAM	7.3	4.3	6.3	6.7	7.0	6.3
PST-4HES	7.3	4.7	6.3	6.0	7.3	6.2
NAVIGATOR II (MVS-OS-1)	5.3	6.3	3.7	7.3	7.7	6.2
ROSECITY (IS-FRR-51)	3.7	7.2	3.0	8.3	7.7	6.1
SHADEMASTER III (PST-48Y7)	4.0	6.5	3.7	7.7	8.0	6.0
EPIC	3.3	6.5	4.3	6.3	9.0	5.7
ABERDEEN	3.3	5.7	4.3	6.3	8.7	5.5
BOREAL	2.0	5.7	1.7	6.0	8.3	4.7
LSD VALUE	1.2	2.6	1.7	1.1	1.0	1.3
C.V. (%)	14.3	26.6	17.7	9.6	8.0	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.

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

NAME	MD1	NE1	RI1	VA1	WA3	MEAN
LONGFELLOW 3 (IS-FRC-33)	6.0	7.2	9.0	7.7	8.7	7.4
INTRIGUE 2	4.3	6.7	8.3	8.0	8.7	6.9
RADAR (MVS-FRC-101)	5.7	6.2	8.0	7.7	7.7	6.8
WRIGLEY 2 (IS-FRC-35)	5.7	6.5	9.0	6.3	8.7	6.8
ZODIAC	5.7	7.2	7.0	6.3	8.3	6.7
FAIRMONT (TCD)	4.0	6.2	8.7	8.0	8.0	6.6
SHADOW III (PST-4CSD)	5.3	7.2	5.3	7.0	8.3	6.6
TREAZURE II	5.3	5.8	8.3	6.7	8.7	6.6
PSG 50C3	4.3	7.2	7.0	7.3	7.3	6.5
LACROSSE	5.0	7.0	7.3	5.7	8.0	6.3
CASCADE	4.3	7.3	5.7	6.3	9.0	6.3
LSD VALUE	1.2	2.4	1.7	0.9	0.8	1.2
C.V. (%)	14.2	22.1	13.7	8.2	5.9	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 27C. SPRING DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

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

NAME	MD1	NE1	RI1	VA1	WA3	MEAN
CHANTILLY (IS-FRR-62)	5.3	6.5	5.0	8.0	8.3	6.6
PSG-5RM	4.3	6.8	5.0	8.0	7.7	6.4
NAVIGATOR II (MVS-QS-1)	5.3	6.3	3.7	7.3	7.7	6.2
ROSECITY (IS-FRR-51)	3.7	7.2	3.0	8.3	7.7	6.1
SHADEMASTER III (PST-48Y7)	4.0	6.5	3.7	7.7	8.0	6.0
EPIC	3.3	6.5	4.3	6.3	9.0	5.7
ABERDEEN	3.3	5.7	4.3	6.3	8.7	5.5
BOREAL	2.0	5.7	1.7	6.0	8.3	4.7
LSD VALUE	1.4	2.3	1.6	1.2	1.3	1.3
C.V. (%)	22.1	22.4	25.5	10.5	9.7	18.4

TABLE 27D. SPRING DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

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

NAME	MD1	NE1	RI1	VA1	WA3	MEAN
BIGHORN GT (PST-4BU3)	8.3	6.7	5.0	6.3	7.7	6.9
SPARTAN II	8.7	4.8	7.3	7.0	7.0	6.9
BEACON (Z6300)	8.3	5.0	7.7	6.7	7.0	6.8
SWORD (NC-HF1)	7.3	4.5	6.3	7.0	7.0	6.4
GOTHAM	7.3	4.3	6.3	6.7	7.0	6.3
PST-4HES	7.3	4.7	6.3	6.0	7.3	6.2
LSD VALUE	1.1	3.2	2.0	1.1	1.1	1.5
C.V. (%)	9.0	48.9	19.5	10.7	9.3	19.4

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.

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

NAME	NE1	RI1	WA3	MEAN
PSG 50C3	8.3	8.0	9.0	8.4
INTRIGUE 2	7.3	9.0	9.0	8.2
PSG-5RM	8.0	7.7	9.0	8.2
ZODIAC	7.7	7.3	9.0	7.9
FAIRMONT (TCD)	7.0	8.7	9.0	7.9
LONGFELLOW 3 (IS-FRC-33)	7.0	8.3	9.0	7.8
SHADOW III (PST-4CSD)	8.0	6.3	9.0	7.8
LACROSSE	7.3	7.3	9.0	7.8
WRIGLEY 2 (IS-FRC-35)	6.7	8.7	9.0	7.8
CASCADE	7.3	6.3	9.0	7.5
TREAZURE II	6.0	9.0	9.0	7.5
CHANTILLY (IS-FRR-62)	7.5	5.7	8.7	7.3
BIGHORN GT (PST-4BU3)	7.3	5.3	9.0	7.3
RADAR (MVS-FRC-101)	6.2	7.7	9.0	7.3
ROSECITY (IS-FRR-51)	8.3	3.3	8.7	7.2
SHADEMASTER III (PST-48Y7)	7.5	4.3	8.7	7.0
PST-4HES	5.3	7.0	9.0	6.7
BEACON (Z6300)	5.0	7.7	8.3	6.5
NAVIGATOR II (MVS-OS-1)	6.3	4.7	8.7	6.5
EPIC	6.8	3.0	8.7	6.3
SWORD (NC-HF1)	5.3	5.7	8.7	6.3
SPARTAN II	5.2	5.7	8.7	6.2
BOREAL	6.7	3.0	8.0	6.1
ABERDEEN	6.2	3.0	8.3	5.9
GOTHAM	5.0	4.3	9.0	5.8
LSD VALUE	2.9	1.6	0.6	1.6
C.V. (%)	27.8	16.2	3.9	20.5

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

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

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

NAME	NE1	RI1	WA3	MEAN
PSG 50C3	8.3	8.0	9	8.4
INTRIGUE 2	7.3	9.0	9	8.2
ZODIAC	7.7	7.3	9	7.9
FAIRMONT (TCD)	7.0	8.7	9	7.9
LONGFELLOW 3 (IS-FRC-33)	7.0	8.3	9	7.8
SHADOW III (PST-4CSD)	8.0	6.3	9	7.8
LACROSSE	7.3	7.3	9	7.8
WRIGLEY 2 (IS-FRC-35)	6.7	8.7	9	7.8
CASCADE	7.3	6.3	9	7.5
TREAZURE II	6.0	9.0	9	7.5
RADAR (MVS-FRC-101)	6.2	7.7	9	7.3
LSD VALUE	2.8	1.2	0	1.4
C.V. (%)	24.5	9.1	0	16.6

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

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

TABLE 26C. SUMMER DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

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

NAME	NE1	RI1	WA3	MEAN
PSG-5RM	8.0	7.7	9.0	8.2
CHANTILLY (IS-FRR-62)	7.5	5.7	8.7	7.3
ROSECITY (IS-FRR-51)	8.3	3.3	8.7	7.2
SHADEMASTER III (PST-48Y7)	7.5	4.3	8.7	7.0
NAVIGATOR II (MVS-OS-1)	6.3	4.7	8.7	6.5
EPIC	6.8	3.0	8.7	6.3
BOREAL	6.7	3.0	8.0	6.1
ABERDEEN	6.2	3.0	8.3	5.9
LSD VALUE	2.6	1.8	0.8	1.4
C.V. (%)	22.3	25.4	5.8	19.9

TABLE 28D. SUMMER DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

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

NAME	NE1	RI1	WA3	MEAN
BIGHORN GT (PST-4BU3)	7.3	5.3	9.0	7.3
PST-4HES	5.3	7.0	9.0	6.7
BEACON (Z6300)	5.0	7.7	8.3	6.5
SWORD (NC-HF1)	5.3	5.7	8.7	6.3
SPARTAN II	5.2	5.7	8.7	6.2
GOTHAM	5.0	4.3	9.0	5.8
LSD VALUE	3.5	2.1	0.7	1.9
C.V. (%)	49.6	22.4	4.7	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.

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

NAME	NE1
CASCADE	8.2
CHANTILLY (IS-FRR-62)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
PSG 50C3	8.0
ROSECITY (IS-FRR-51)	8.0
ZODIAC	8.0
PSG-5RM	7.8
SHADEMASTER III (PST-48Y7)	7.8
SHADOW III (PST-4CSD)	7.8
INTRIGUE 2	7.7
BIGHORN GT (PST-4BU3)	7.7
EPIC	7.5
LACROSSE	7.5
ABERDEEN	6.8
NAVIGATOR II (MVS-OS-1)	6.8
WRIGLEY 2 (IS-FRC-35)	6.7
FAIRMONT (TCD)	6.7
BOREAL	6.5
RADAR (MVS-FRC-101)	6.3
TREAZURE II	6.0
SPARTAN II	5.5
SWORD (NC-HF1)	5.3
PST-4HES	5.2
BEACON (Z6300)	5.0
GOTHAM	4.7
LSD VALUE	2.8
C.V. (%)	26.6

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

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

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

NAME	NE1
CASCADE	8.2
LONGFELLOW 3 (IS-FRC-33)	8.0
PSG 50C3	8.0
ZODIAC	8.0
SHADOW III (PST-4CSD)	7.8
INTRIGUE 2	7.7
LACROSSE	7.5
WRIGLEY 2 (IS-FRC-35)	6.7
FAIRMONT (TCD)	6.7
RADAR (MVS-FRC-101)	6.3
TREAZURE II	6.0
LSD VALUE	2.7
C.V. (%)	22.9

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

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

TABLE 29C. FALL DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

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

NAME	NE1
CHANTILLY (IS-FRR-62)	8.0
ROSECITY (IS-FRR-51)	8.0
PSG-5RM	7.8
SHADEMASTER III (PST-48Y7)	7.8
EPIC	7.5
ABERDEEN	6.8
NAVIGATOR II (MVS-0S-1)	6.8
BOREAL	6.5
LSD VALUE	2.7
C.V. (%)	22.6

TABLE 29D. FALL DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

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

NAME	NE1
BIGHORN GT (PST-4BU3)	7.7
SPARTAN II	5.5
SWORD (NC-HF1)	5.3
PST-4HES	5.2
BEACON (Z6300)	5.0
GOTHAM	4.7
LSD VALUE	3.3
C.V. (%)	47.8

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.

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MN1	RI1	VA1	WA3	MEAN
PSG 50C3	93.3	93.7	97.5	94.7	97.7	94.8
ZODIAC	93.3	92.7	95.2	95.0	99.0	94.4
TREASURE II	91.3	92.7	96.0	95.2	99.0	94.3
RADAR (MVS-FRC-101)	91.7	87.0	98.3	95.2	98.0	93.6
FAIRMONT (TCD)	91.7	88.1	96.7	92.0	96.3	93.0
LACROSSE	83.3	90.6	98.3	95.0	96.3	92.9
LONGFELLOW 3 (IS-FRC-33)	90.0	82.7	99.0	92.3	98.7	90.9
WRIGLEY 2 (IS-FRC-35)	88.3	82.2	99.0	92.0	98.7	90.9
BEACON (Z6300)	88.0	87.7	97.5	84.8	98.0	90.9
CASCADE	83.3	90.0	88.2	95.0	98.3	90.7
INTRIGUE 2	90.0	85.0	89.2	94.3	99.0	90.5
PSG-5RM	80.0	82.2	96.8	95.0	95.0	90.5
BIGHORN GT (PST-4BU3)	93.0	90.0	71.5	96.7	98.7	89.4
NAVIGATOR II (MVS-OS-1)	86.7	79.4	89.8	93.2	93.3	87.8
ROSECITY (IS-FRR-51)	55.0	86.7	74.8	94.8	93.3	86.0
SWORD (NC-HF1)	91.7	67.8	95.3	89.2	97.3	84.1
CHANTILLY (IS-FRR-62)	65.0	72.8	80.2	94.0	93.3	83.9
SPARTAN II	86.7	63.9	83.8	95.7	98.3	82.9
EPIC	46.7	85.6	65.8	92.7	92.7	82.8
SHADEMASTER III (PST-48Y7)	71.7	83.9	60.0	95.3	93.3	82.7
ABERDEEN	61.7	83.3	69.2	84.3	95.0	82.3
GOTHAM	90.0	70.6	82.2	85.0	97.3	80.7
PST-4HES	86.7	76.7	67.3	89.2	98.3	80.5
SHADOW III (PST-4CSD)	81.7	65.0	87.8	94.7	98.0	77.8
BOREAL	78.3	78.3	36.7	85.3	90.0	73.5
LSD VALUE	16.3	19.0	25.6	10.2	2.8	12.1
C.V. (%)	12.3	15.2	18.8	6.9	1.8	11.6

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

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

2009-13 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MN1	RI1	VA1	WA3	MEAN
PSG 50C3	93.3	93.7	97.5	94.7	97.7	94.8
ZODIAC	93.3	92.7	95.2	95.0	99.0	94.4
TREAZURE II	91.3	92.7	96.0	95.2	99.0	94.3
RADAR (MVS-FRC-101)	91.7	87.0	98.3	95.2	98.0	93.6
FAIRMONT (TCD)	91.7	88.1	96.7	92.0	96.3	93.0
LACROSSE	83.3	90.6	98.3	95.0	96.3	92.9
LONGFELLOW 3 (IS-FRC-33)	90.0	82.7	99.0	92.3	98.7	90.9
WRIGLEY 2 (IS-FRC-35)	88.3	82.2	99.0	92.0	98.7	90.9
CASCADE	83.3	90.0	88.2	95.0	98.3	90.7
INTRIGUE 2	90.0	85.0	89.2	94.3	99.0	90.5
SHADOW III (PST-4CSD)	81.7	65.0	87.8	94.7	98.0	77.8
LSD VALUE	9.6	16.4	13.6	3.7	1.8	8.9
C.V. (%)	6.7	12.1	9.0	2.6	1.2	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 30C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	MD1	MN1	RI1	VA1	WA3	MEAN
PSG-5RM	80.0	82.2	96.8	95.0	95.0	90.5
NAVIGATOR II (MVS-OS-1)	86.7	79.4	89.8	93.2	93.3	87.8
ROSECITY (IS-FRR-51)	55.0	86.7	74.8	94.8	93.3	86.0
CHANTILLY (IS-FRR-62)	65.0	72.8	80.2	94.0	93.3	83.9
EPIC	46.7	85.6	65.8	92.7	92.7	82.8
SHADEMASTER III (PST-48Y7)	71.7	83.9	60.0	95.3	93.3	82.7
ABERDEEN	61.7	83.3	69.2	84.3	95.0	82.3
BOREAL	78.3	78.3	36.7	85.3	90.0	73.5
LSD VALUE	22.9	16.5	32.5	9.4	4.2	11.8
C.V. (%)	20.9	13.6	28.3	6.4	2.8	12.8

TABLE 30D. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/						
NAME	MD1	MN1	RI1	VA1	WA3	MEAN
BEACON (Z6300)	88.0	87.7	97.5	84.8	98.0	90.9
BIGHORN GT (PST-4BU3)	93.0	90.0	71.5	96.7	98.7	89.4
SWORD (NC-HF1)	91.7	67.8	95.3	89.2	97.3	84.1
SPARTAN II	86.7	63.9	83.8	95.7	98.3	82.9
GOTHAM	90.0	70.6	82.2	85.0	97.3	80.7
PST-4HES	86.7	76.7	67.3	89.2	98.3	80.5
LSD VALUE	15.4	23.3	29.4	15.2	2.0	15.2
C.V. (%)	10.7	21.4	22.1	10.7	1.3	15.4

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.

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	IL1	MN1	NE1	RI1	UT1	WA3	MEAN
LONGFELLOW 3 (IS-FRC-33)	93.0	93.0	93.6	53.3	98.6	83.2	99.0	86.4
ZODIAC	88.0	91.7	93.2	54.4	98.0	85.0	99.0	86.1
RADAR (MVS-FRC-101)	90.0	93.0	93.7	51.1	98.0	88.0	98.3	85.9
PSG-5RM	99.0	97.7	86.6	55.6	96.1	86.7	98.3	85.9
TREAZURE II	90.0	88.3	94.2	56.7	95.8	78.3	98.3	85.4
LACROSSE	96.0	85.0	92.1	48.9	96.6	84.8	99.0	85.1
FAIRMONT (TCD)	96.0	93.3	93.1	48.3	97.0	83.2	99.0	85.1
PSG 50C3	86.7	99.0	92.1	51.7	96.2	84.8	99.0	85.1
INTRIGUE 2	94.7	93.3	93.1	46.7	90.8	86.7	99.0	84.2
WRIGLEY 2 (IS-FRC-35)	88.3	90.0	86.6	52.2	97.6	85.0	98.7	84.1
BEACON (Z6300)	96.0	8.3	91.6	61.1	97.0	86.7	99.0	83.5
SHADEMASTER III (PST-48Y7)	96.0	94.3	87.8	61.1	74.9	91.5	97.7	83.4
NAVIGATOR II (MVS-OS-1)	96.3	92.7	88.3	54.4	77.4	93.0	98.3	82.8
CASCADE	89.7	90.0	88.8	51.1	84.3	83.2	98.3	82.0
ROSECITY (IS-FRR-51)	96.0	90.0	88.3	56.7	72.2	88.3	98.3	81.6
CHANTILLY (IS-FRR-62)	88.3	97.7	83.9	45.6	87.3	88.2	99.0	81.3
BIGHORN GT (PST-4BU3)	96.3	13.3	90.6	72.2	66.6	91.5	95.3	80.3
SHADOW III (PST-4CSD)	88.0	86.7	79.3	47.8	86.0	86.5	97.7	79.7
SWORD (NC-HF1)	96.0	20.0	77.8	53.3	92.9	91.3	99.0	79.5
ABERDEEN	93.0	88.3	87.2	51.1	61.1	93.0	98.3	78.5
EPIC	90.0	85.0	89.4	50.0	60.4	84.8	99.0	77.7
SPARTAN II	93.0	18.3	81.1	47.8	86.4	91.3	97.7	77.5
GOTHAM	99.0	16.7	83.9	50.0	79.8	84.8	98.3	77.2
PST-4HES	96.0	18.3	85.3	48.9	72.2	91.3	98.3	77.0
BOREAL	88.0	73.3	81.1	55.6	20.6	86.3	94.2	68.3
LSD VALUE	9.1	9.5	12.5	25.9	23.4	11.4	2.3	9.4
C.V. (%)	6.1	8.1	9.1	32.6	17.4	8.0	1.5	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.

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	IL1	MN1	NE1	RI1	UT1	WA3	MEAN
LONGFELLOW 3 (IS-FRC-33)	93.0	93.0	93.6	53.3	98.6	83.2	99.0	86.4
ZODIAC	88.0	91.7	93.2	54.4	98.0	85.0	99.0	86.1
RADAR (MVS-FRC-101)	90.0	93.0	93.7	51.1	98.0	88.0	98.3	85.9
TREAZURE II	90.0	88.3	94.2	56.7	95.8	78.3	98.3	85.4
LACROSSE	96.0	85.0	92.1	48.9	96.6	84.8	99.0	85.1
FAIRMONT (TCD)	96.0	93.3	93.1	48.3	97.0	83.2	99.0	85.1
PSG 50C3	86.7	99.0	92.1	51.7	96.2	84.8	99.0	85.1
INTRIGUE 2	94.7	93.3	93.1	46.7	90.8	86.7	99.0	84.2
WRIGLEY 2 (IS-FRC-35)	88.3	90.0	86.6	52.2	97.6	85.0	98.7	84.1
CASCADE	89.7	90.0	88.8	51.1	84.3	83.2	98.3	82.0
SHADOW III (PST-4CSD)	88.0	86.7	79.3	47.8	86.0	86.5	97.7	79.7
LSD VALUE	10.3	6.3	10.2	28.3	9.7	11.8	1.7	7.9
C.V. (%)	7.1	4.3	7.1	39.0	6.4	8.6	1.1	10.9

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

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

TABLE 31C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/								
NAME	CA1	IL1	MN1	NE1	RI1	UT1	WA3	MEAN
PSG-5RM	99.0	97.7	86.6	55.6	96.1	86.7	98.3	85.9
SHADEMASTER III (PST-48Y7)	96.0	94.3	87.8	61.1	74.9	91.5	97.7	83.4
NAVIGATOR II (MVS-OS-1)	96.3	92.7	88.3	54.4	77.4	93.0	98.3	82.8
ROSECITY (IS-FRR-51)	96.0	90.0	88.3	56.7	72.2	88.3	98.3	81.6
CHANTILLY (IS-FRR-62)	88.3	97.7	83.9	45.6	87.3	88.2	99.0	81.3
ABERDEEN	93.0	88.3	87.2	51.1	61.1	93.0	98.3	78.5
EPIC	90.0	85.0	89.4	50.0	60.4	84.8	99.0	77.7
BOREAL	88.0	73.3	81.1	55.6	20.6	86.3	94.2	68.3
LSD VALUE	8.8	11.9	10.5	23.0	27.9	10.8	2.5	9.8
C.V. (%)	5.9	8.2	7.8	28.5	25.3	7.5	1.6	13.8

TABLE 31D. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/								
NAME	CA1	IL1	MN1	NE1	RI1	UT1	WA3	MEAN
BEACON (Z6300)	96.0	8.3	91.6	61.1	97.0	86.7	99.0	83.5
BIGHORN GT (PST-4BU3)	96.3	13.3	90.6	72.2	66.6	91.5	95.3	80.3
SWORD (NC-HF1)	96.0	20.0	77.8	53.3	92.9	91.3	99.0	79.5
SPARTAN II	93.0	18.3	81.1	47.8	86.4	91.3	97.7	77.5
GOTHAM	99.0	16.7	83.9	50.0	79.8	84.8	98.3	77.2
PST-4HES	96.0	18.3	85.3	48.9	72.2	91.3	98.3	77.0
LSD VALUE	7.0	10.7	16.5	23.9	31.1	10.6	2.9	10.4
C.V. (%)	4.5	42.1	12.8	26.9	23.4	7.4	1.9	15.6

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

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

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA1	IL1	MN1	NJ2	PA1	RI1	MEAN
ZODIAC	93.0	88.3	95.3	93.3	98.7	97.5	94.8
INTRIGUE 2	92.7	88.0	93.8	94.5	97.7	93.8	94.0
TREAZURE II	96.0	85.9	94.6	93.6	99.0	92.3	93.5
LONGFELLOW 3 (IS-FRC-33)	73.3	85.4	95.2	94.6	97.7	96.0	93.4
PSG-5RM	99.0	82.9	91.9	93.4	99.0	89.0	92.8
RADAR (MVS-FRC-101)	99.0	81.7	96.9	91.0	89.3	98.3	92.6
FAIRMONT (TCD)	99.0	85.1	94.0	89.8	93.3	96.7	92.6
PSG 50C3	86.0	87.0	95.6	92.7	88.0	96.0	92.4
WRIGLEY 2 (IS-FRC-35)	96.0	82.5	87.2	96.1	96.0	89.5	91.8
CHANTILLY (IS-FRR-62)	83.0	80.0	89.8	93.7	99.0	87.2	90.5
NAVIGATOR II (MVS-OS-1)	86.3	83.8	87.9	90.1	97.7	75.5	89.5
CASCADE	99.0	80.8	89.2	89.1	93.0	69.2	88.5
ROSECITY (IS-FRR-51)	96.0	78.3	91.8	85.6	99.0	68.3	87.8
SHADEMASTER III (PST-48Y7)	99.0	78.8	91.9	84.8	99.0	69.0	87.4
SHADOW III (PST-4CSD)	86.0	80.1	79.7	89.1	96.3	83.3	87.3
LACROSSE	86.0	68.3	90.3	85.9	98.7	96.8	87.1
EPIC	92.7	75.9	85.4	78.6	99.0	52.5	82.2
ABERDEEN	99.0	74.8	92.3	76.7	96.0	50.8	81.9
SWORD (NC-HF1)	96.0	29.9	81.8	91.8	97.7	93.8	76.7
BEACON (Z6300)	92.7	18.8	94.6	91.3	99.0	93.7	76.5
PST-4HES	96.0	28.3	88.8	91.0	99.0	75.8	76.3
SPARTAN II	86.3	22.1	84.8	89.8	99.0	80.7	73.2
BIGHORN GT (PST-4BU3)	83.0	26.7	92.9	73.8	99.0	72.5	71.7
GOTHAM	99.0	20.8	81.7	88.6	99.0	61.7	71.3
BOREAL	86.0	51.6	84.7	70.8	97.7	16.7	70.5
LSD VALUE	19.2	22.0	14.5	12.7	5.3	21.4	8.8
C.V. (%)	13.0	23.1	10.3	9.5	3.4	16.6	11.4

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

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

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA1	IL1	MN1	NJ2	PA1	RI1	MEAN
ZODIAC	93.0	88.3	95.3	93.3	98.7	97.5	94.8
INTRIGUE 2	92.7	88.0	93.8	94.5	97.7	93.8	94.0
TREAZURE II	96.0	85.9	94.6	93.6	99.0	92.3	93.5
LONGFELLOW 3 (IS-FRC-33)	73.3	85.4	95.2	94.6	97.7	96.0	93.4
RADAR (MVS-FRC-101)	99.0	81.7	96.9	91.0	89.3	98.3	92.6
FAIRMONT (TCD)	99.0	85.1	94.0	89.8	93.3	96.7	92.6
PSG 50C3	86.0	87.0	95.6	92.7	88.0	96.0	92.4
WRIGLEY 2 (IS-FRC-35)	96.0	82.5	87.2	96.1	96.0	89.5	91.8
CASCADE	99.0	80.8	89.2	89.1	93.0	69.2	88.5
SHADOW III (PST-4CSD)	86.0	80.1	79.7	89.1	96.3	83.3	87.3
LACROSSE	86.0	68.3	90.3	85.9	98.7	96.8	87.1
LSD VALUE	21.4	19.0	14.8	10.0	7.4	13.2	7.8
C.V. (%)	14.6	15.8	10.2	7.1	4.8	8.9	9.3

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

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

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA1	IL1	MN1	NJ2	PA1	RI1	MEAN
PSG-5RM	99.0	82.9	91.9	93.4	99.0	89.0	92.8
CHANTILLY (IS-FRR-62)	83.0	80.0	89.8	93.7	99.0	87.2	90.5
NAVIGATOR II (MVS-OS-1)	86.3	83.8	87.9	90.1	97.7	75.5	89.5
ROSECITY (IS-FRR-51)	96.0	78.3	91.8	85.6	99.0	68.3	87.8
SHADEMASTER III (PST-48Y7)	99.0	78.8	91.9	84.8	99.0	69.0	87.4
EPIC	92.7	75.9	85.4	78.6	99.0	52.5	82.2
ABERDEEN	99.0	74.8	92.3	76.7	96.0	50.8	81.9
BOREAL	86.0	51.6	84.7	70.8	97.7	16.7	70.5
LSD VALUE	18.8	24.0	13.1	16.4	3.5	25.3	9.5
C.V. (%)	12.6	24.0	9.3	13.1	2.2	24.7	12.6

TABLE 32D. PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA1	IL1	MN1	NJ2	PA1	RI1	MEAN
SWORD (NC-HF1)	96.0	29.9	81.8	91.8	97.7	93.8	76.7
BEACON (Z6300)	92.7	18.8	94.6	91.3	99.0	93.7	76.5
PST-4HES	96.0	28.3	88.8	91.0	99.0	75.8	76.3
SPARTAN II	86.3	22.1	84.8	89.8	99.0	80.7	73.2
BIGHORN GT (PST-4BU3)	83.0	26.7	92.9	73.8	99.0	72.5	71.7
GOTHAM	99.0	20.8	81.7	88.6	99.0	61.7	71.3
LSD VALUE	14.9	20.0	15.3	10.3	1.5	26.3	8.8
C.V. (%)	10.0	59.3	11.3	7.9	1.0	20.8	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.

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
BEACON (Z6300)	5.5
GOTHAM	5.5
SPARTAN II	5.5
SWORD (NC-HF1)	5.3
PST-4HES	5.3
BIGHORN GT (PST-4BU3)	5.0
INTRIGUE 2	4.9
FAIRMONT (TCD)	4.9
RADAR (MVS-FRC-101)	4.9
WRIGLEY 2 (IS-FRC-35)	4.9
ZODIAC	4.9
CHANTILLY (IS-FRR-62)	4.8
NAVIGATOR II (MVS-OS-1)	4.8
PSG 50C3	4.8
SHADOW III (PST-4CSD)	4.8
LACROSSE	4.7
EPIC	4.7
CASCADE	4.7
LONGFELLOW 3 (IS-FRC-33)	4.6
TREAZURE II	4.5
ABERDEEN	4.4
PSG-5RM	4.4
SHADEMASTER III (PST-48Y7)	4.4
ROSECITY (IS-FRR-51)	4.3
BOREAL	4.2
LSD VALUE	1.0
C.V. (%)	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.
- 3/ WINTER COLOR RATED IN 2009-11.

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
INTRIGUE 2	4.9
FAIRMONT (TCD)	4.9
RADAR (MVS-FRC-101)	4.9
WRIGLEY 2 (IS-FRC-35)	4.9
ZODIAC	4.9
PSG 50C3	4.8
SHADOW III (PST-4CSD)	4.8
LACROSSE	4.7
CASCADE	4.7
LONGFELLOW 3 (IS-FRC-33)	4.6
TREAZURE II	4.5
LSD VALUE	1.1
C.V. (%)	13.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ WINTER COLOR RATED IN 2009-11.

TABLE 33C. WINTER COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
CHANTILLY (IS-FRR-62)	4.8
NAVIGATOR II (MVS-OS-1)	4.8
EPIC	4.7
ABERDEEN	4.4
PSG-5RM	4.4
SHADEMASTER III (PST-48Y7)	4.4
ROSECITY (IS-FRR-51)	4.3
BOREAL	4.2
LSD VALUE	0.9
C.V. (%)	11.9

TABLE 33D. WINTER COLOR RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
BEACON (Z6300)	5.5
GOTHAM	5.5
SPARTAN II	5.5
SWORD (NC-HF1)	5.3
PST-4HES	5.3
BIGHORN GT (PST-4BU3)	5.0
LSD VALUE	0.9
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.

3/ WINTER COLOR RATED IN 2009-11.

TABLE 34A: PERCENT WINTER KILL RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	MN1
SPARTAN II	95.0
CHANTILLY (IS-FRR-62)	88.3
GOTHAM	80.0
PSG-5RM	71.7
SWORD (NC-HF1)	69.7
PST-4HES	60.0
ABERDEEN	56.7
ROSECITY (IS-FRR-51)	56.7
NAVIGATOR II (MVS-OS-1)	56.7
SHADOW III (PST-4CSD)	56.7
EPIC	53.3
INTRIGUE 2	51.7
LONGFELLOW 3 (IS-FRC-33)	48.3
RADAR (MVS-FRC-101)	46.7
BEACON (Z6300)	43.3
SHADEMASTER III (PST-48Y7)	43.3
FAIRMONT (TCD)	40.0
WRIGLEY 2 (IS-FRC-35)	39.7
BIGHORN GT (PST-4BU3)	28.3
BOREAL	25.0
LACROSSE	10.0
PSG 50C3	1.7
TREAZURE II	1.7
ZODIAC	1.7
CASCADE	0.0
LSD VALUE	54.1
C.V. (%)	74.7

- 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.
- 3/ PERCENT WINTER KILL RATED IN 2011 ONLY.

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	MN1
SHADOW III (PST-4CSD)	56.7
INTRIGUE 2	51.7
LONGFELLOW 3 (IS-FRC-33)	48.3
RADAR (MVS-FRC-101)	46.7
FAIRMONT (TCD)	40.0
WRIGLEY 2 (IS-FRC-35)	39.7
LACROSSE	10.0
PSG 50C3	1.7
TREAZURE II	1.7
ZODIAC	1.7
CASCADE	0.0
LSD VALUE	49.3
C.V. (%)	113.1

- 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.
- 3/ PERCENT WINTER KILL RATED IN 2011 ONLY.

TABLE 34C. PERCENT WINTER KILL RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	MN1
CHANTILLY (IS-FRR-62)	88.3
PSG-5RM	71.7
ABERDEEN	56.7
ROSECITY (IS-FRR-51)	56.7
NAVIGATOR II (MVS-OS-1)	56.7
EPIC	53.3
SHADEMASTER III (PST-48Y7)	43.3
BOREAL	25.0
LSD VALUE	56.0
C.V. (%)	61.6

TABLE 34D. PERCENT WINTER KILL RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	MN1
SPARTAN II	95.0
GOTHAM	80.0
SWORD (NC-HF1)	69.7
PST-4HES	60.0
BEACON (Z6300)	43.3
BIGHORN GT (PST-4BU3)	28.3
LSD VALUE	59.9
C.V. (%)	59.3

- 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.
- 3/ PERCENT WINTER KILL RATED IN 2011 ONLY.

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/ 3/

NAME	RI1
PSG-5RM	9.0
PST-4HES	8.7
BEACON (Z6300)	7.7
GOTHAM	7.0
NAVIGATOR II (MVS-OS-1)	6.7
RADAR (MVS-FRC-101)	6.7
TREASURE II	6.7
LONGFELLOW 3 (IS-FRC-33)	6.3
SHADEMASTER III (PST-48Y7)	6.3
SPARTAN II	6.3
WRIGLEY 2 (IS-FRC-35)	6.3
BOREAL	6.0
CHANTILLY (IS-FRR-62)	6.0
FAIRMONT (TCD)	6.0
PSG 50C3	6.0
SWORD (NC-HF1)	6.0
ZODIAC	6.0
INTRIGUE 2	5.7
LACROSSE	5.7
BIGHORN GT (PST-4BU3)	5.0
ROSECITY (IS-FRR-51)	5.0
ABERDEEN	4.0
CASCADE	4.0
EPIC	2.7
SHADOW III (PST-4CSD)	2.7
LSD VALUE	3.0
C.V. (%)	30.7

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ DROUGHT TOLERANCE (DORMANCY) RATED IN 2013 ONLY.

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/ 3/

NAME	RI1
RADAR (MVS-FRC-101)	6.7
TREAZURE II	6.7
LONGFELLOW 3 (IS-FRC-33)	6.3
WRIGLEY 2 (IS-FRC-35)	6.3
FAIRMONT (TCD)	6.0
PSG 50C3	6.0
ZODIAC	6.0
INTRIGUE 2	5.7
LACROSSE	5.7
CASCADE	4.0
SHADOW III (PST-4CSD)	2.7
LSD VALUE	3.3
C.V. (%)	36.8

- 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.
- 3/ DROUGHT TOLERANCE (DORMANCY) RATED IN 2013 ONLY.

TABLE 35C. DROUGHT TOLERANCE (DORMANCY) RATINGS OF STRONG CREEPING RED FESCUE FESCUE CULTIVARS 1/
2009-13 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/ 3/

NAME	RI1
PSG-5RM	9.0
NAVIGATOR II (MVS-OS-1)	6.7
SHADEMASTER III (PST-48Y7)	6.3
BOREAL	6.0
CHANTILLY (IS-FRR-62)	6.0
ROSECITY (IS-FRR-51)	5.0
ABERDEEN	4.0
EPIC	2.7
LSD VALUE	2.6
C.V. (%)	27.9

TABLE 35D. DROUGHT TOLERANCE (DORMANCY) RATINGS OF HARD FESCUE FESCUE CULTIVARS 1/
2009-13 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/ 3/

NAME	RI1
PST-4HES	8.7
BEACON (Z6300)	7.7
GOTHAM	7.0
SPARTAN II	6.3
SWORD (NC-HF1)	6.0
BIGHORN GT (PST-4BU3)	5.0
LSD VALUE	2.5
C.V. (%)	23.3

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.

3/ DROUGHT TOLERANCE (DORMANCY) RATED IN 2013 ONLY.

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2	PA1	RI1	MEAN
LONGFELLOW 3 (IS-FRC-33)	8.2	9.0	8.7	8.3
INTRIGUE 2	8.2	9.0	8.3	8.1
TREAZURE II	7.8	9.0	8.8	8.1
FAIRMONT (TCD)	7.8	9.0	7.3	7.8
ZODIAC	7.9	9.0	7.3	7.8
PSG 50C3	7.5	9.0	7.2	7.4
RADAR (MVS-FRC-101)	7.8	8.7	6.0	7.3
PSG-5RM	6.9	9.0	7.7	7.0
WRIGLEY 2 (IS-FRC-35)	7.8	7.7	5.5	7.0
SWORD (NC-HF1)	6.8	9.0	7.2	7.0
SHADOW III (PST-4CSD)	7.3	7.3	6.2	7.0
LACROSSE	5.0	9.0	7.5	5.7
CASCADE	6.4	8.7	3.0	5.6
CHANTILLY (IS-FRR-62)	4.8	8.0	5.5	5.1
SHADEMASTER III (PST-48Y7)	5.5	8.7	3.7	5.0
BEACON (Z6300)	5.2	7.7	6.0	5.0
SPARTAN II	4.8	8.7	6.7	4.9
PST-4HES	5.1	9.0	4.2	4.8
NAVIGATOR II (MVS-OS-1)	4.7	7.7	6.0	4.8
BIGHORN GT (PST-4BU3)	3.6	8.7	6.7	4.3
GOTHAM	4.2	8.0	4.8	4.1
BOREAL	3.8	9.0	1.3	3.7
ROSECITY (IS-FRR-51)	3.3	5.0	3.8	3.4
EPIC	2.8	3.3	3.3	2.9
ABERDEEN	2.7	5.7	2.8	2.8
LSD VALUE	2.2	2.0	2.5	2.1
C.V. (%)	24.2	15.3	27.1	26.6

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ DOLLAR SPOT RATED AT "NJ2" IN 2010-13, AT "PA1" IN 2011 AND AT "RI1" IN 2010-11.

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2	PA1	RI1	MEAN
LONGFELLOW 3 (IS-FRC-33)	8.2	9.0	8.7	8.3
INTRIGUE 2	8.2	9.0	8.3	8.1
TREAZURE II	7.8	9.0	8.8	8.1
FAIRMONT (TCD)	7.8	9.0	7.3	7.8
ZODIAC	7.9	9.0	7.3	7.8
PSG 50C3	7.5	9.0	7.2	7.4
RADAR (MVS-FRC-101)	7.8	8.7	6.0	7.3
WRIGLEY 2 (IS-FRC-35)	7.8	7.7	5.5	7.0
SHADOW III (PST-4CSD)	7.3	7.3	6.2	7.0
LACROSSE	5.0	9.0	7.5	5.7
CASCADE	6.4	8.7	3.0	5.6
LSD VALUE	1.7	1.8	2.1	1.7
C.V. (%)	15.2	13.2	18.6	17.3

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

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

3/ DOLLAR SPOT RATED AT "NJ2" IN 2010-13, AT "PA1" IN 2011 AND AT "RI1" IN 2010-11.

TABLE 36C. DOLLAR SPOT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/				
NAME	NJ2	PA1	RI1	MEAN
PSG-5RM	6.9	9.0	7.7	7.0
CHANTILLY (IS-FRR-62)	4.8	8.0	5.5	5.1
SHADEMASTER III (PST-48Y7)	5.5	8.7	3.7	5.0
NAVIGATOR II (MVS-OS-1)	4.7	7.7	6.0	4.8
BOREAL	3.8	9.0	1.3	3.7
ROSECITY (IS-FRR-51)	3.3	5.0	3.8	3.4
EPIC	2.8	3.3	3.3	2.9
ABERDEEN	2.7	5.7	2.8	2.8
LSD VALUE	2.8	2.7	3.2	2.6
C.V. (%)	40.6	23.7	45.7	44.6

TABLE 36D. DOLLAR SPOT RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/				
NAME	NJ2	PA1	RI1	MEAN
SWORD (NC-HF1)	6.8	9.0	7.2	7.0
BEACON (Z6300)	5.2	7.7	6.0	5.0
SPARTAN II	4.8	8.7	6.7	4.9
PST-4HES	5.1	9.0	4.2	4.8
BIGHORN GT (PST-4BU3)	3.6	8.7	6.7	4.3
GOTHAM	4.2	8.0	4.8	4.1
LSD VALUE	1.9	0.9	2.1	1.7
C.V. (%)	27.2	6.8	22.3	28.1

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

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

3/ DOLLAR SPOT RATED AT "NJ2" IN 2010-13, AT "PA1" IN 2011 AND AT "RI1" IN 2010-11.

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

NAME	MD1	NJ2	NY1	PA1	RI1	VA1	WA3	MEAN
PST-4HES	7.8	7.7	2.0	7.9	8.2	9.0	5.3	7.4
SPARTAN II	8.3	7.8	1.7	8.1	7.0	8.7	6.3	7.2
PSG 50C3	6.5	4.5	5.0	8.1	7.6	9.0	4.3	7.1
SWORD (NC-HF1)	8.2	7.8	3.3	7.8	6.8	8.0	6.3	7.0
BIGHORN GT (PST-4BU3)	8.2	6.0	3.3	7.9	7.6	8.0	5.0	7.0
BEACON (Z6300)	8.2	8.7	1.3	8.2	6.4	8.0	6.0	6.9
GOTHAM	8.2	7.8	2.3	8.2	8.2	5.7	5.3	6.9
PSG-5RM	7.0	5.8	4.7	7.8	5.6	8.7	5.0	6.9
LONGFELLOW 3 (IS-FRC-33)	5.7	4.8	4.7	8.1	6.8	8.7	4.3	6.8
RADAR (MVS-FRC-101)	5.7	5.2	3.3	7.7	7.4	8.7	4.0	6.8
FAIRMONT (TCD)	5.5	4.5	5.7	7.7	6.7	8.7	3.7	6.7
SHADEMASTER III (PST-48Y7)	7.0	5.3	5.0	6.1	7.1	8.0	5.0	6.6
CHANTILLY (IS-FRR-62)	6.8	6.2	5.0	6.7	6.3	7.3	4.7	6.5
INTRIGUE 2	5.8	5.0	4.7	7.8	6.7	7.0	4.3	6.4
ZODIAC	5.8	5.2	4.3	8.0	6.6	7.0	4.7	6.4
WRIGLEY 2 (IS-FRC-35)	5.8	5.0	5.0	7.3	5.7	8.0	4.0	6.3
SHADOW III (PST-4CSD)	5.5	5.3	4.7	7.8	6.1	7.3	4.0	6.3
LACROSSE	5.2	4.7	4.0	7.1	6.4	7.7	4.0	6.2
TREAZURE II	5.8	4.3	4.7	7.9	6.0	7.3	3.0	6.2
ROSECITY (IS-FRR-51)	6.5	6.2	5.3	5.6	7.2	5.7	4.0	6.1
NAVIGATOR II (MVS-OS-1)	7.0	5.7	5.3	5.4	6.1	5.7	5.0	5.8
BOREAL	6.5	5.0	6.0	4.8	9.0	4.7	4.3	5.7
CASCADE	5.2	3.0	4.3	6.2	4.9	7.3	4.0	5.4
ABERDEEN	6.2	4.2	4.7	4.2	7.2	4.7	4.3	5.2
EPIC	6.0	5.5	5.3	4.8	6.1	3.3	4.0	5.0
LSD VALUE	0.9	1.9	1.6	1.7	2.9	2.5	1.2	1.5
C.V. (%)	8.7	20.8	23.7	15.6	28.2	21.5	15.7	20.2

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

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

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

NAME	MD1	NJ2	NY1	PA1	RI1	VA1	WA3	MEAN
PSG 50C3	6.5	4.5	5.0	8.1	7.6	9.0	4.3	7.1
LONGFELLOW 3 (IS-FRC-33)	5.7	4.8	4.7	8.1	6.8	8.7	4.3	6.8
RADAR (MVS-FRC-101)	5.7	5.2	3.3	7.7	7.4	8.7	4.0	6.8
FAIRMONT (TCD)	5.5	4.5	5.7	7.7	6.7	8.7	3.7	6.7
INTRIGUE 2	5.8	5.0	4.7	7.8	6.7	7.0	4.3	6.4
ZODIAC	5.8	5.2	4.3	8.0	6.6	7.0	4.7	6.4
WRIGLEY 2 (IS-FRC-35)	5.8	5.0	5.0	7.3	5.7	8.0	4.0	6.3
SHADOW III (PST-4CSD)	5.5	5.3	4.7	7.8	6.1	7.3	4.0	6.3
LACROSSE	5.2	4.7	4.0	7.1	6.4	7.7	4.0	6.2
TREAZURE II	5.8	4.3	4.7	7.9	6.0	7.3	3.0	6.2
CASCADE	5.2	3.0	4.3	6.2	4.9	7.3	4.0	5.4
LSD VALUE	1.1	2.0	1.8	1.4	2.6	2.2	1.2	1.4
C.V. (%)	12.1	26.4	24.4	12.7	30.4	17.7	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.

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

NAME	MD1	NJ2	NY1	PA1	RI1	VA1	WA3	MEAN
PSG-5RM	7.0	5.8	4.7	7.8	5.6	8.7	5.0	6.9
SHADEMASTER III (PST-48Y7)	7.0	5.3	5.0	6.1	7.1	8.0	5.0	6.6
CHANTILLY (IS-FRR-62)	6.8	6.2	5.0	6.7	6.3	7.3	4.7	6.5
ROSECITY (IS-FRR-51)	6.5	6.2	5.3	5.6	7.2	5.7	4.0	6.1
NAVIGATOR II (MVS-OS-1)	7.0	5.7	5.3	5.4	6.1	5.7	5.0	5.8
BOREAL	6.5	5.0	6.0	4.8	9.0	4.7	4.3	5.7
ABERDEEN	6.2	4.2	4.7	4.2	7.2	4.7	4.3	5.2
EPIC	6.0	5.5	5.3	4.8	6.1	3.3	4.0	5.0
LSD VALUE	0.8	2.0	1.5	2.2	3.9	2.6	1.1	1.7
C.V. (%)	7.8	22.6	17.7	24.4	35.7	26.6	15.6	25.2

TABLE 37D. RED THREAD RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

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

NAME	MD1	NJ2	NY1	PA1	RI1	VA1	WA3	MEAN
PST-4HES	7.8	7.7	2.0	7.9	8.2	9.0	5.3	7.4
SPARTAN II	8.3	7.8	1.7	8.1	7.0	8.7	6.3	7.2
SWORD (NC-HF1)	8.2	7.8	3.3	7.8	6.8	8.0	6.3	7.0
BIGHORN GT (PST-4BU3)	8.2	6.0	3.3	7.9	7.6	8.0	5.0	7.0
BEACON (Z6300)	8.2	8.7	1.3	8.2	6.4	8.0	6.0	6.9
GOTHAM	8.2	7.8	2.3	8.2	8.2	5.7	5.3	6.9
LSD VALUE	0.7	1.5	1.4	1.2	2.0	2.9	1.2	1.3
C.V. (%)	5.0	12.4	37.8	9.4	18.7	22.9	13.0	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.

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	VA1
GOTHAM	9.0
LONGFELLOW 3 (IS-FRC-33)	9.0
LACROSSE	9.0
SHADEMASTER III (PST-48Y7)	9.0
SPARTAN II	9.0
FAIRMONT (TCD)	9.0
TREAZURE II	9.0
ZODIAC	9.0
PSG 50C3	8.7
BIGHORN GT (PST-4BU3)	8.3
RADAR (MVS-FRC-101)	8.3
PSG-5RM	8.3
PST-4HES	8.3
SWORD (NC-HF1)	8.0
SHADOW III (PST-4CSD)	8.0
ABERDEEN	7.7
CASCADE	7.7
INTRIGUE 2	7.7
WRIGLEY 2 (IS-FRC-35)	7.3
CHANTILLY (IS-FRR-62)	7.3
BEACON (Z6300)	7.3
NAVIGATOR II (MVS-OS-1)	6.7
BOREAL	6.3
ROSECITY (IS-FRR-51)	6.0
EPIC	5.7
LSD VALUE	2.5
C.V. (%)	19.8

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ BROWN PATCH (WARM TEMPERATURE) RATED IN 2009 ONLY.

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/	
NAME	VA1
FAIRMONT (TCD)	9.0
LONGFELLOW 3 (IS-FRC-33)	9.0
LACROSSE	9.0
TREAZURE II	9.0
ZODIAC	9.0
PSG 50C3	8.7
RADAR (MVS-FRC-101)	8.3
SHADOW III (PST-4CSD)	8.0
CASCADE	7.7
INTRIGUE 2	7.7
WRIGLEY 2 (IS-FRC-35)	7.3
LSD VALUE	2.2
C.V. (%)	15.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ BROWN PATCH (WARM TEMPERATURE) RATED IN 2009 ONLY.

TABLE 38C. BROWN PATCH (WARM TEMPERATURE) RATINGS OF STRONG CREEPING RED CULTIVARS 1/
2009-13 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

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

TABLE 38D. BROWN PATCH (WARM TEMPERATURE) RATINGS OF HARD CULTIVARS 1/
2009-13 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

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

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ BROWN PATCH (WARM TEMPERATURE) RATED IN 2009 ONLY.

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	PA1
SPARTAN II	9.0
BIGHORN GT (PST-4BU3)	8.7
GOTHAM	8.7
BOREAL	8.0
EPIC	8.0
PST-4HES	8.0
SWORD (NC-HF1)	8.0
BEACON (Z6300)	7.7
NAVIGATOR II (MVS-OS-1)	7.7
SHADEMASTER III (PST-48Y7)	7.7
ABERDEEN	7.3
INTRIGUE 2	7.3
ROSECITY (IS-FRR-51)	7.0
CHANTILLY (IS-FRR-62)	7.0
PSG-5RM	7.0
TREAZURE II	7.0
LACROSSE	6.3
SHADOW III (PST-4CSD)	6.0
FAIRMONT (TCD)	5.0
RADAR (MVS-FRC-101)	5.0
CASCADE	4.7
WRIGLEY 2 (IS-FRC-35)	4.7
LONGFELLOW 3 (IS-FRC-33)	4.0
PSG 50C3	4.0
ZODIAC	4.0
LSD VALUE	3.4
C.V. (%)	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.
- 3/ PYTHIUM BLIGHT RATED IN 2010 ONLY.

2009-13 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	PA1
INTRIGUE 2	7.3
TREAZURE II	7.0
LACROSSE	6.3
SHADOW III (PST-4CSD)	6.0
FAIRMONT (TCD)	5.0
RADAR (MVS-FRC-101)	5.0
CASCADE	4.7
WRIGLEY 2 (IS-FRC-35)	4.7
LONGFELLOW 3 (IS-FRC-33)	4.0
PSG 50C3	4.0
ZODIAC	4.0
LSD VALUE	4.2
C.V. (%)	50.0

- 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.
- 3/ PYTHIUM BLIGHT RATED IN 2010 ONLY.

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	PA1
BOREAL	8.0
EPIC	8.0
NAVIGATOR II (MVS-0S-1)	7.7
SHADEMASTER III (PST-48Y7)	7.7
ABERDEEN	7.3
ROSECITY (IS-FRR-51)	7.0
CHANTILLY (IS-FRR-62)	7.0
PSG-5RM	7.0
LSD VALUE	3.2
C.V. (%)	26.4

TABLE 39D. PYTHIUM BLIGHT RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	PA1
SPARTAN II	9.0
BIGHORN GT (PST-4BU3)	8.7
GOTHAM	8.7
PST-4HES	8.0
SWORD (NC-HF1)	8.0
BEACON (Z6300)	7.7
LSD VALUE	1.6
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.
- 3/ PYTHIUM BLIGHT RATED IN 2010 ONLY.

PINK PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2
GOTHAM	7.0
PSG-5RM	6.7
BEACON (Z6300)	6.3
RADAR (MVS-FRC-101)	6.3
SHADEMASTER III (PST-48Y7)	6.3
BIGHORN GT (PST-4BU3)	6.0
BOREAL	6.0
EPIC	6.0
WRIGLEY 2 (IS-FRC-35)	6.0
SPARTAN II	6.0
ZODIAC	6.0
FAIRMONT (TCD)	5.7
NAVIGATOR II (MVS-OS-1)	5.7
PSG 50C3	5.7
SWORD (NC-HF1)	5.7
ABERDEEN	5.3
INTRIGUE 2	5.3
CHANTILLY (IS-FRR-62)	5.3
PST-4HES	5.3
CASCADE	5.0
LONGFELLOW 3 (IS-FRC-33)	5.0
ROSECITY (IS-FRR-51)	5.0
SHADOW III (PST-4CSD)	4.7
LACROSSE	4.0
TREAZURE II	4.0
LSD VALUE	2.5
C.V. (%)	27.7

- 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.
- 3/ PINK PATCH RATED IN 2010 ONLY.

PINK PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2
RADAR (MVS-FRC-101)	6.3
WRIGLEY 2 (IS-FRC-35)	6.0
ZODIAC	6.0
FAIRMONT (TCD)	5.7
PSG 50C3	5.7
INTRIGUE 2	5.3
CASCADE	5.0
LONGFELLOW 3 (IS-FRC-33)	5.0
SHADOW III (PST-4CSD)	4.7
LACROSSE	4.0
TREAZURE II	4.0
LSD VALUE	2.2
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.
- 3/ PINK PATCH RATED IN 2010 ONLY.

PINK PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2
PSG-5RM	6.7
SHADEMASTER III (PST-48Y7)	6.3
BOREAL	6.0
EPIC	6.0
NAVIGATOR II (MVS-OS-1)	5.7
ABERDEEN	5.3
CHANTILLY (IS-FRR-62)	5.3
ROSECITY (IS-FRR-51)	5.0
LSD VALUE	2.5
C.V. (%)	26.4

TABLE 40D. PINK PATCH RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

PINK PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ2
GOTHAM	7.0
BEACON (Z6300)	6.3
BIGHORN GT (PST-4BU3)	6.0
SPARTAN II	6.0
SWORD (NC-HF1)	5.7
PST-4HES	5.3
LSD VALUE	3.0
C.V. (%)	30.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ PINK PATCH RATED IN 2010 ONLY.

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
SWORD (NC-HF1)	6.3
GOTHAM	5.7
CHANTILLY (IS-FRR-62)	5.7
PST-4HES	5.7
BEACON (Z6300)	5.3
INTRIGUE 2	5.3
LONGFELLOW 3 (IS-FRC-33)	5.3
WRIGLEY 2 (IS-FRC-35)	5.3
PSG-5RM	5.3
ROSECITY (IS-FRR-51)	5.0
NAVIGATOR II (MVS-OS-1)	5.0
PSG 50C3	5.0
SPARTAN II	5.0
TREAZURE II	5.0
EPIC	4.7
FAIRMONT (TCD)	4.7
ZODIAC	4.7
LACROSSE	4.3
SHADOW III (PST-4CSD)	4.3
RADAR (MVS-FRC-101)	4.3
SHADEMASTER III (PST-48Y7)	4.3
ABERDEEN	4.0
CASCADE	4.0
BIGHORN GT (PST-4BU3)	3.7
BOREAL	3.7
LSD VALUE	1.3
C.V. (%)	16.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ FALL COLOR (NOVEMBER) RATED IN 2010 ONLY.

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
INTRIGUE 2	5.3
LONGFELLOW 3 (IS-FRC-33)	5.3
WRIGLEY 2 (IS-FRC-35)	5.3
PSG 50C3	5.0
TREAZURE II	5.0
FAIRMONT (TCD)	4.7
ZODIAC	4.7
LACROSSE	4.3
SHADOW III (PST-4CSD)	4.3
RADAR (MVS-FRC-101)	4.3
CASCADE	4.0
LSD VALUE	1.3
C.V. (%)	16.4

- 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.
- 3/ FALL COLOR (NOVEMBER) RATED IN 2010 ONLY.

TABLE 41C. FALL COLOR (NOVEMBER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
CHANTILLY (IS-FRR-62)	5.7
PSG-5RM	5.3
ROSECITY (IS-FRR-51)	5.0
NAVIGATOR II (MVS-OS-1)	5.0
EPIC	4.7
SHADEMASTER III (PST-48Y7)	4.3
ABERDEEN	4.0
BOREAL	3.7
LSD VALUE	1.2
C.V. (%)	16.2

TABLE 41D. FALL COLOR (NOVEMBER) RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
SWORD (NC-HF1)	6.3
GOTHAM	5.7
PST-4HES	5.7
BEACON (Z6300)	5.3
SPARTAN II	5.0
BIGHORN GT (PST-4BU3)	3.7
LSD VALUE	1.6
C.V. (%)	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.

3/ FALL COLOR (NOVEMBER) RATED IN 2010 ONLY.

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
SWORD (NC-HF1)	5.7
BEACON (Z6300)	5.5
SPARTAN II	5.5
BIGHORN GT (PST-4BU3)	5.2
PST-4HES	5.2
GOTHAM	5.0
INTRIGUE 2	5.0
PSG-5RM	4.8
LONGFELLOW 3 (IS-FRC-33)	4.7
CHANTILLY (IS-FRR-62)	4.7
FAIRMONT (TCD)	4.7
NAVIGATOR II (MVS-0S-1)	4.5
PSG 50C3	4.5
RADAR (MVS-FRC-101)	4.5
SHADEMASTER III (PST-48Y7)	4.5
TREAZURE II	4.5
WRIGLEY 2 (IS-FRC-35)	4.5
ZODIAC	4.5
EPIC	4.3
LACROSSE	4.3
ROSECITY (IS-FRR-51)	4.3
ABERDEEN	4.2
CASCADE	4.2
SHADOW III (PST-4CSD)	4.2
BOREAL	3.7
LSD VALUE	0.8
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.
- 3/ FALL COLOR (DECEMBER) RATED IN 2010 AND 2013.

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
INTRIGUE 2	5.0
LONGFELLOW 3 (IS-FRC-33)	4.7
FAIRMONT (TCD)	4.7
PSG 50C3	4.5
RADAR (MVS-FRC-101)	4.5
TREAZURE II	4.5
WRIGLEY 2 (IS-FRC-35)	4.5
ZODIAC	4.5
LACROSSE	4.3
CASCADE	4.2
SHADOW III (PST-4CSD)	4.2
LSD VALUE	0.8
C.V. (%)	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.
- 3/ FALL COLOR (DECEMBER) RATED IN 2010 AND 2013.

TABLE 42C. FALL COLOR (DECEMBER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
PSG-5RM	4.8
CHANTILLY (IS-FRR-62)	4.7
NAVIGATOR II (MVS-OS-1)	4.5
SHADEMASTER III (PST-48Y7)	4.5
EPIC	4.3
ROSECITY (IS-FRR-51)	4.3
ABERDEEN	4.2
BOREAL	3.7
LSD VALUE	0.7
C.V. (%)	9.9

TABLE 42D. FALL COLOR (DECEMBER) RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WA3
SWORD (NC-HF1)	5.7
BEACON (Z6300)	5.5
SPARTAN II	5.5
BIGHORN GT (PST-4BU3)	5.2
PST-4HES	5.2
GOTHAM	5.0
LSD VALUE	0.8
C.V. (%)	9.8

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

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

3/ FALL COLOR (DECEMBER) RATED IN 2010 AND 2013.

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	RI1
ZODIAC	9.0
PSG 50C3	8.8
WRIGLEY 2 (IS-FRC-35)	8.8
FAIRMONT (TCD)	8.7
LACROSSE	8.7
RADAR (MVS-FRC-101)	8.7
BEACON (Z6300)	8.5
TREAZURE II	8.3
LONGFELLOW 3 (IS-FRC-33)	8.2
INTRIGUE 2	8.0
SWORD (NC-HF1)	8.0
PSG-5RM	7.7
SPARTAN II	7.3
CASCADE	7.0
CHANTILLY (IS-FRR-62)	7.0
SHADOW III (PST-4CSD)	6.8
GOTHAM	6.0
NAVIGATOR II (MVS-OS-1)	5.3
ROSECITY (IS-FRR-51)	5.2
BIGHORN GT (PST-4BU3)	5.0
PST-4HES	4.8
ABERDEEN	3.8
SHADEMASTER III (PST-48Y7)	3.8
EPIC	3.5
BOREAL	2.2
LSD VALUE	2.1
C.V. (%)	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.
- 3/ POA ANNUA RATED IN 2012-13.

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	RI1
ZODIAC	9.0
PSG 50C3	8.8
WRIGLEY 2 (IS-FRC-35)	8.8
FAIRMONT (TCD)	8.7
LACROSSE	8.7
RADAR (MVS-FRC-101)	8.7
TREAZURE II	8.3
LONGFELLOW 3 (IS-FRC-33)	8.2
INTRIGUE 2	8.0
CASCADE	7.0
SHADOW III (PST-4CSD)	6.8
LSD VALUE	1.5
C.V. (%)	11.2

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ POA ANNUA RATED IN 2012-13.

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/	
NAME	RI1
PSG-5RM	7.7
CHANTILLY (IS-FRR-62)	7.0
NAVIGATOR II (MVS-0S-1)	5.3
ROSECITY (IS-FRR-51)	5.2
ABERDEEN	3.8
SHADEMASTER III (PST-48Y7)	3.8
EPIC	3.5
BOREAL	2.2
LSD VALUE	2.1
C.V. (%)	27.5

TABLE 43D. POA ANNUA RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/	
NAME	RI1
BEACON (Z6300)	8.5
SWORD (NC-HF1)	8.0
SPARTAN II	7.3
GOTHAM	6.0
BIGHORN GT (PST-4BU3)	5.0
PST-4HES	4.8
LSD VALUE	2.8
C.V. (%)	26.5

- 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.
- 3/ POA ANNUA RATED IN 2012-13.

TABLE 44A: MOWING QUALITY RATINGS OF FESCUE CULTIVARS 1/
2009-13 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/ 3/

NAME	WA3
GOTHAM	7.7
SPARTAN II	7.7
TREAZURE II	7.3
BEACON (Z6300)	7.3
SWORD (NC-HF1)	7.0
PST-4HES	7.0
ZODIAC	6.7
BIGHORN GT (PST-4BU3)	6.0
LONGFELLOW 3 (IS-FRC-33)	6.0
WRIGLEY 2 (IS-FRC-35)	6.0
CASCADE	5.7
INTRIGUE 2	5.7
LACROSSE	5.3
PSG-5RM	5.3
EPIC	5.0
SHADEMASTER III (PST-48Y7)	5.0
ROSECITY (IS-FRR-51)	4.7
CHANTILLY (IS-FRR-62)	4.7
SHADOW III (PST-4CSD)	4.7
BOREAL	4.3
PSG 50C3	4.3
RADAR (MVS-FRC-101)	4.0
FAIRMONT (TCD)	4.0
ABERDEEN	2.7
NAVIGATOR II (MVS-OS-1)	2.0
LSD VALUE	2.4
C.V. (%)	27.3

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ MOWING QUALITY RATED IN 2009 ONLY.

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/ 3/

NAME	WA3
TREAZURE II	7.3
ZODIAC	6.7
LONGFELLOW 3 (IS-FRC-33)	6.0
WRIGLEY 2 (IS-FRC-35)	6.0
CASCADE	5.7
INTRIGUE 2	5.7
LACROSSE	5.3
SHADOW III (PST-4CSD)	4.7
PSG 50C3	4.3
FAIRMONT (TCD)	4.0
RADAR (MVS-FRC-101)	4.0
LSD VALUE	2.5
C.V. (%)	28.5

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ MOWING QUALITY RATED IN 2009 ONLY.

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/ 3/

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

TABLE 44D. MOWING QUALITY RATINGS OF HARD CULTIVARS 1/
 2009-13 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/ 3/

NAME	WA3
GOTHAM	7.7
SPARTAN II	7.7
BEACON (Z6300)	7.3
SWORD (NC-HF1)	7.0
PST-4HES	7.0
BIGHORN GT (PST-4BU3)	6.0
LSD VALUE	2.6
C.V. (%)	23.0

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ MOWING QUALITY RATED IN 2009 ONLY.

TABLE 45A. PERCENT ESTABLISHMENT RATINGS OF FESCUE CULTIVARS 1/
2008 DATA 2/

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
ROSECITY (IS-FRR-51)	93.0	70.0	80.0	85.0	66.7	88.3	80.5
ZODIAC	83.3	60.0	81.7	91.3	66.7	96.3	79.9
FAIRMONT (TCD)	89.7	63.3	83.3	85.0	66.7	90.0	79.7
WRIGLEY 2 (IS-FRC-35)	86.7	70.0	83.3	83.3	66.7	86.7	79.4
EPIC	81.7	60.0	88.3	86.3	63.3	94.7	79.1
RADAR (MVS-FRC-101)	83.3	63.3	88.3	91.3	56.7	88.3	78.6
LONGFELLOW 3 (IS-FRC-33)	89.7	63.3	86.7	88.0	53.3	88.3	78.2
INTRIGUE 2	89.7	56.7	80.0	88.0	63.3	88.3	77.7
TREAZURE II	84.7	53.3	85.0	88.0	63.3	88.3	77.1
PSG-5RM	99.0	50.0	88.3	85.0	53.3	83.3	76.5
CASCADE	90.0	50.0	83.3	95.0	50.0	88.3	76.1
ABERDEEN	91.3	43.3	85.0	86.7	63.3	86.7	76.1
NAVIGATOR II (MVS-OS-1)	93.0	50.0	81.7	81.7	63.3	86.7	76.1
LACROSSE	92.7	33.3	83.3	93.3	63.3	88.3	75.7
CHANTILLY (IS-FRR-62)	81.7	56.7	86.7	80.0	56.7	88.3	75.0
PSG 50C3	88.0	46.7	88.3	85.0	56.7	83.3	74.7
SHADEMASTER III (PST-48Y7)	83.3	53.3	73.3	75.0	53.3	80.0	69.7
GOTHAM	96.0	40.0	58.3	83.3	56.7	73.3	67.9
SPARTAN II	89.7	36.7	61.7	83.3	46.7	75.0	65.5
SHADOW III (PST-4CSD)	83.3	43.3	65.0	80.0	43.3	76.7	65.3
BEACON (Z6300)	84.7	40.0	73.3	81.7	50.0	60.0	64.9
BOREAL	83.3	36.7	56.7	68.3	50.0	73.3	61.4
BIGHORN GT (PST-4BU3)	99.0	28.3	56.7	80.0	43.3	60.0	61.2
PST-4HES	83.3	38.3	48.3	83.3	50.0	60.0	60.6
SWORD (NC-HF1)	93.0	36.7	55.0	65.0	46.7	63.3	59.9
LSD VALUE	12.8	17.6	10.8	15.0	18.5	10.9	5.9
C.V. (%)	9.0	22.0	8.9	11.1	20.3	8.3	12.5

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

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

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
ZODIAC	83.3	60.0	81.7	91.3	66.7	96.3	79.9
FAIRMONT (TCD)	89.7	63.3	83.3	85.0	66.7	90.0	79.7
WRIGLEY 2 (IS-FRC-35)	86.7	70.0	83.3	83.3	66.7	86.7	79.4
RADAR (MVS-FRC-101)	83.3	63.3	88.3	91.3	56.7	88.3	78.6
LONGFELLOW 3 (IS-FRC-33)	89.7	63.3	86.7	88.0	53.3	88.3	78.2
INTRIGUE 2	89.7	56.7	80.0	88.0	63.3	88.3	77.7
TREAZURE II	84.7	53.3	85.0	88.0	63.3	88.3	77.1
CASCADE	90.0	50.0	83.3	95.0	50.0	88.3	76.1
LACROSSE	92.7	33.3	83.3	93.3	63.3	88.3	75.7
PSG 50C3	88.0	46.7	88.3	85.0	56.7	83.3	74.7
SHADOW III (PST-4CSD)	83.3	43.3	65.0	80.0	43.3	76.7	65.3
LSD VALUE	15.2	17.3	9.9	15.4	19.6	8.5	6.1
C.V. (%)	10.8	19.6	7.5	10.9	20.6	6.0	12.0

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

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

TABLE 43C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED CULTIVARS 1/
2008 DATA 2/

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

TABLE 45D. PERCENT ESTABLISHMENT RATINGS OF HARD CULTIVARS 1/
2008 DATA 2/

NAME	CA1	IL1	MN1	NJ2	UT1	WI1	MEAN
GOTHAM	96.0	40.0	58.3	83.3	56.7	73.3	67.9
SPARTAN II	89.7	36.7	61.7	83.3	46.7	75.0	65.5
BEACON (Z6300)	84.7	40.0	73.3	81.7	50.0	60.0	64.9
BIGHORN GT (PST-4BU3)	99.0	28.3	56.7	80.0	43.3	60.0	61.2
PST-4HES	83.3	38.3	48.3	83.3	50.0	60.0	60.6
SWORD (NC-HF1)	93.0	36.7	55.0	65.0	46.7	63.3	59.9
LSD VALUE	11.6	21.6	14.6	12.4	22.1	16.0	6.9
C.V. (%)	7.9	36.6	15.4	9.7	28.1	15.2	16.6

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

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

2009-13 DATA

DROUGHT STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
SPARTAN II	7.7
BEACON (Z6300)	7.0
GOTHAM	7.0
SWORD (NC-HF1)	7.0
BIGHORN GT (PST-4BU3)	6.3
PST-4HES	6.3
NAVIGATOR II (MVS-0S-1)	4.7
ABERDEEN	4.3
EPIC	4.3
CASCADE	4.0
CHANTILLY (IS-FRR-62)	4.0
LONGFELLOW 3 (IS-FRC-33)	4.0
PSG-5RM	4.0
RADAR (MVS-FRC-101)	4.0
ROSECITY (IS-FRR-51)	4.0
SHADEMASTER III (PST-48Y7)	4.0
BOREAL	3.7
LACROSSE	3.7
SHADOW III (PST-4CSD)	3.7
FAIRMONT (TCD)	3.3
PSG 50C3	3.3
TREAZURE II	3.3
WRIGLEY 2 (IS-FRC-35)	3.3
INTRIGUE 2	3.0
ZODIAC	2.7
LSD VALUE	1.4
C.V. (%)	18.7

- 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.
- 3/ DROUGHT STRESS RATED IN 2013 ONLY.

DROUGHT STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
CASCADE	4.0
LONGFELLOW 3 (IS-FRC-33)	4.0
RADAR (MVS-FRC-101)	4.0
LACROSSE	3.7
SHADOW III (PST-4CSD)	3.7
FAIRMONT (TCD)	3.3
PSG 50C3	3.3
TREAZURE II	3.3
WRIGLEY 2 (IS-FRC-35)	3.3
INTRIGUE 2	3.0
ZODIAC	2.7
LSD VALUE	1.5
C.V. (%)	26.4

- 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.
- 3/ DROUGHT STRESS RATED IN 2013 ONLY.

TABLE 46C. DROUGHT STRESS RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

DROUGHT STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
NAVIGATOR II (MVS-OS-1)	4.7
ABERDEEN	4.3
EPIC	4.3
CHANTILLY (IS-FRR-62)	4.0
PSG-5RM	4.0
ROSECITY (IS-FRR-51)	4.0
SHADEMASTER III (PST-48Y7)	4.0
BOREAL	3.7
LSD VALUE	1.3
C.V. (%)	19.8

TABLE 46D. DROUGHT STRESS RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

DROUGHT STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
SPARTAN II	7.7
BEACON (Z6300)	7.0
GOTHAM	7.0
SWORD (NC-HF1)	7.0
BIGHORN GT (PST-4BU3)	6.3
PST-4HES	6.3
LSD VALUE	1.1
C.V. (%)	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.
- 3/ DROUGHT STRESS RATED IN 2013 ONLY.

2009-13 DATA

SUMMER STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
GOTHAM	7.0
SWORD (NC-HF1)	7.0
BEACON (Z6300)	6.3
PST-4HES	6.3
SPARTAN II	6.3
BIGHORN GT (PST-4BU3)	6.0
FAIRMONT (TCD)	5.0
CHANTILLY (IS-FRR-62)	5.0
NAVIGATOR II (MVS-OS-1)	5.0
PSG 50C3	5.0
SHADEMASTER III (PST-48Y7)	5.0
BOREAL	4.7
CASCADE	4.7
LONGFELLOW 3 (IS-FRC-33)	4.7
PSG-5RM	4.7
SHADOW III (PST-4CSD)	4.7
ROSECITY (IS-FRR-51)	4.3
LACROSSE	4.3
ABERDEEN	4.0
EPIC	4.0
INTRIGUE 2	4.0
WRIGLEY 2 (IS-FRC-35)	4.0
RADAR (MVS-FRC-101)	4.0
TREAZURE II	4.0
ZODIAC	4.0
LSD VALUE	0.9
C.V. (%)	11.6

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

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

3/ SUMMER STRESS RATED IN 2010 ONLY.

SUMMER STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
FAIRMONT (TCD)	5.0
PSG 50C3	5.0
CASCADE	4.7
LONGFELLOW 3 (IS-FRC-33)	4.7
SHADOW III (PST-4CSD)	4.7
LACROSSE	4.3
INTRIGUE 2	4.0
WRIGLEY 2 (IS-FRC-35)	4.0
RADAR (MVS-FRC-101)	4.0
TREAZURE II	4.0
ZODIAC	4.0
LSD VALUE	0.9
C.V. (%)	12.5

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ SUMMER STRESS RATED IN 2010 ONLY.

TABLE 47C. SUMMER STRESS RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA

SUMMER STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
CHANTILLY (IS-FRR-62)	5.0
NAVIGATOR II (MVS-OS-1)	5.0
SHADEMASTER III (PST-48Y7)	5.0
BOREAL	4.7
PSG-5RM	4.7
ROSECITY (IS-FRR-51)	4.3
ABERDEEN	4.0
EPIC	4.0
LSD VALUE	1.0
C.V. (%)	13.4

TABLE 47D. SUMMER STRESS RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA

SUMMER STRESS RATINGS 1-9; 1=BROWN, 9=DARK GREEN 2/ 3/

NAME	MD1
GOTHAM	7.0
SWORD (NC-HF1)	7.0
BEACON (Z6300)	6.3
PST-4HES	6.3
SPARTAN II	6.3
BIGHORN GT (PST-4BU3)	6.0
LSD VALUE	0.9
C.V. (%)	8.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ SUMMER STRESS RATED IN 2010 ONLY.

NAME	MD1
SHADEMASTER III (PST-48Y7)	46.7
ROSECITY (IS-FRR-51)	38.3
EPIC	31.7
LACROSSE	31.7
PSG-5RM	31.7
FAIRMONT (TCD)	30.0
ABERDEEN	28.3
BOREAL	28.3
RADAR (MVS-FRC-101)	25.0
CHANTILLY (IS-FRR-62)	24.0
NAVIGATOR II (MVS-OS-1)	22.3
WRIGLEY 2 (IS-FRC-35)	22.3
CASCADE	21.7
LONGFELLOW 3 (IS-FRC-33)	21.7
SHADOW III (PST-4CSD)	17.3
PSG 50C3	11.7
TREAZURE II	11.3
INTRIGUE 2	8.0
ZODIAC	6.7
GOTHAM	1.3
BIGHORN GT (PST-4BU3)	1.0
BEACON (Z6300)	0.7
PST-4HES	0.7
SPARTAN II	0.7
SWORD (NC-HF1)	0.7
LSD VALUE	14.3
C.V. (%)	47.8

- 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.
- 3/ PERCENT ANNUAL GRASS (AUGUST) RATED IN 2013 ONLY.

NAME	MD1
LACROSSE	31.7
FAIRMONT (TCD)	30.0
RADAR (MVS-FRC-101)	25.0
WRIGLEY 2 (IS-FRC-35)	22.3
CASCADE	21.7
LONGFELLOW 3 (IS-FRC-33)	21.7
SHADOW III (PST-4CSD)	17.3
PSG 50C3	11.7
TREAZURE II	11.3
INTRIGUE 2	8.0
ZODIAC	6.7
LSD VALUE	11.0
C.V. (%)	36.4

- 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.
- 3/ PERCENT ANNUAL GRASS (AUGUST) RATED IN 2013 ONLY.

TABLE 48C. PERCENT ANNUAL GRASS (AUGUST) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA 2/ 3/

NAME	MD1
SHADEMASTER III (PST-48Y7)	46.7
ROSECITY (IS-FRR-51)	38.3
EPIC	31.7
PSG-5RM	31.7
ABERDEEN	28.3
BOREAL	28.3
CHANTILLY (IS-FRR-62)	24.0
NAVIGATOR II (MVS-OS-1)	22.3
LSD VALUE	21.6
C.V. (%)	42.8

TABLE 48D. PERCENT ANNUAL GRASS (AUGUST) RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA 2/ 3/

NAME	MD1
GOTHAM	1.3
BIGHORN GT (PST-4BU3)	1.0
BEACON (Z6300)	0.7
PST-4HES	0.7
SPARTAN II	0.7
SWORD (NC-HF1)	0.7
LSD VALUE	1.1
C.V. (%)	80.0

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

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

3/ PERCENT ANNUAL GRASS (AUGUST) RATED IN 2013 ONLY.

TABLE 49A: PERCENT POA ANNUA RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2009-13 DATA 2/ 3/

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

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

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

3/ PERCENT POA ANNUA RATED IN 2012 ONLY.

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

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ PERCENT POA ANNUA RATED IN 2012 ONLY.

TABLE 49C. PERCENT POA ANNUA RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
2009-13 DATA 2/ 3/

NAME	MD1
BOREAL	63.3
ABERDEEN	62.7
EPIC	50.0
SHADEMASTER III (PST-48Y7)	30.0
ROSECITY (IS-FRR-51)	26.7
NAVIGATOR II (MVS-0S-1)	19.0
PSG-5RM	19.0
CHANTILLY (IS-FRR-62)	16.3
LSD VALUE	30.7
C.V. (%)	53.1

TABLE 49D. PERCENT POA ANNUA RATINGS OF HARD FESCUE CULTIVARS 1/
2009-13 DATA 2/ 3/

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

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

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

3/ PERCENT POA ANNUA RATED IN 2012 ONLY.

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/ 3/

NAME	MN1
ABERDEEN	9.0
BIGHORN GT (PST-4BU3)	9.0
GOTHAM	9.0
ROSECITY (IS-FRR-51)	9.0
SWORD (NC-HF1)	9.0
PSG-5RM	9.0
PST-4HES	9.0
SPARTAN II	9.0
BEACON (Z6300)	9.0
CHANTILLY (IS-FRR-62)	8.7
NAVIGATOR II (MVS-OS-1)	8.7
SHADEMASTER III (PST-48Y7)	8.3
TREAZURE II	8.3
BOREAL	7.7
EPIC	7.7
INTRIGUE 2	7.3
FAIRMONT (TCD)	7.0
LONGFELLOW 3 (IS-FRC-33)	6.7
PSG 50C3	6.7
LACROSSE	6.3
WRIGLEY 2 (IS-FRC-35)	5.7
RADAR (MVS-FRC-101)	5.7
CASCADE	5.0
ZODIAC	4.3
SHADOW III (PST-4CSD)	2.3
LSD VALUE	3.0
C.V. (%)	25.3

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ WINTER INJURY RATED IN 2009 ONLY.

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/ 3/

NAME	MN1
TREAZURE II	8.3
INTRIGUE 2	7.3
FAIRMONT (TCD)	7.0
LONGFELLOW 3 (IS-FRC-33)	6.7
PSG 50C3	6.7
LACROSSE	6.3
WRIGLEY 2 (IS-FRC-35)	5.7
RADAR (MVS-FRC-101)	5.7
CASCADE	5.0
ZODIAC	4.3
SHADOW III (PST-4CSD)	2.3
LSD VALUE	4.3
C.V. (%)	44.8

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ WINTER INJURY RATED IN 2009 ONLY.

2009-13 DATA

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/ 3/

NAME	MN1
ABERDEEN	9.0
ROSECITY (IS-FRR-51)	9.0
PSG-5RM	9.0
CHANTILLY (IS-FRR-62)	8.7
NAVIGATOR II (MVS-OS-1)	8.7
SHADEMASTER III (PST-48Y7)	8.3
BOREAL	7.7
EPIC	7.7
LSD VALUE	1.9
C.V. (%)	14.2

TABLE 50D. WINTER INJURY RATINGS OF HARD CULTIVARS 1/
 2009-13 DATA

WINTER INJURY RATINGS 1-9; 9=NO INJURY 2/ 3/

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

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

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

3/ WINTER INJURY RATED IN 2009 ONLY.

TABLE 51A: CRABGRASS RATINGS OF FINELEAF FESCUE CULTIVARS 1/
2009-13 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/ 3/	
NAME	RI1
BEACON (Z6300)	8.7
PSG 50C3	8.3
FAIRMONT (TCD)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
WRIGLEY 2 (IS-FRC-35)	8.0
CHANTILLY (IS-FRR-62)	7.7
LACROSSE	7.7
RADAR (MVS-FRC-101)	7.7
SWORD (NC-HF1)	7.3
INTRIGUE 2	7.0
ZODIAC	6.7
EPIC	6.3
PSG-5RM	6.3
TREAZURE II	6.3
GOTHAM	6.0
NAVIGATOR II (MVS-OS-1)	6.0
SPARTAN II	6.0
ROSECITY (IS-FRR-51)	5.7
PST-4HES	5.5
BIGHORN GT (PST-4BU3)	5.0
SHADEMASTER III (PST-48Y7)	4.7
SHADOW III (PST-4CSD)	3.3
ABERDEEN	3.0
BOREAL	2.3
CASCADE	2.3
LSD VALUE	2.7
C.V. (%)	26.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ CRABGRASS RATED IN 2012 ONLY.

CRABGRASS RATINGS 1-9; 9=NONE 2/ 3/

NAME	RI1
PSG 50C3	8.3
FAIRMONT (TCD)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
WRIGLEY 2 (IS-FRC-35)	8.0
LACROSSE	7.7
RADAR (MVS-FRC-101)	7.7
INTRIGUE 2	7.0
ZODIAC	6.7
TREAZURE II	6.3
SHADOW III (PST-4CSD)	3.3
CASCADE	2.3
LSD VALUE	2.2
C.V. (%)	20.4

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ CRABGRASS RATED IN 2012 ONLY.

CRABGRASS RATINGS 1-9; 9=NONE 2/ 3/

NAME	RI1
CHANTILLY (IS-FRR-62)	7.7
EPIC	6.3
PSG-5RM	6.3
NAVIGATOR II (MVS-0S-1)	6.0
ROSECITY (IS-FRR-51)	5.7
SHADEMASTER III (PST-48Y7)	4.7
ABERDEEN	3.0
BOREAL	2.3
LSD VALUE	3.2
C.V. (%)	38.1

TABLE 51D. CRABGRASS RATINGS OF HARD FESCUE CULTIVARS 1/
 2009-13 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/ 3/

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

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ CRABGRASS RATED IN 2012 ONLY.

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

NAME	WA3
CASCADE	9.0
EPIC	9.0
RADAR (MVS-FRC-101)	9.0
INTRIGUE 2	8.7
NAVIGATOR II (MVS-OS-1)	8.7
ZODIAC	8.7
WRIGLEY 2 (IS-FRC-35)	8.3
PSG 50C3	8.3
TREAZURE II	8.3
BEACON (Z6300)	8.3
ABERDEEN	8.0
BIGHORN GT (PST-4BU3)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
PST-4HES	8.0
FAIRMONT (TCD)	8.0
BOREAL	7.7
GOTHAM	7.7
ROSECITY (IS-FRR-51)	7.7
CHANTILLY (IS-FRR-62)	7.7
SHADEMASTER III (PST-48Y7)	7.7
SHADOW III (PST-4CSD)	7.7
LACROSSE	7.3
PSG-5RM	7.3
SPARTAN II	7.3
SWORD (NC-HF1)	7.0
LSD VALUE	1.1
C.V. (%)	8.4

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ WINTER DENSITY RATED IN 2009 ONLY.

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

NAME	WA3
CASCADE	9.0
RADAR (MVS-FRC-101)	9.0
INTRIGUE 2	8.7
ZODIAC	8.7
WRIGLEY 2 (IS-FRC-35)	8.3
PSG 50C3	8.3
TREAZURE II	8.3
FAIRMONT (TCD)	8.0
LONGFELLOW 3 (IS-FRC-33)	8.0
SHADOW III (PST-4CSD)	7.7
LACROSSE	7.3
LSD VALUE	0.9
C.V. (%)	6.6

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ WINTER DENSITY RATED IN 2009 ONLY.

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

NAME	WA3
EPIC	9.0
NAVIGATOR II (MVS-OS-1)	8.7
ABERDEEN	8.0
BOREAL	7.7
ROSECITY (IS-FRR-51)	7.7
CHANTILLY (IS-FRR-62)	7.7
SHADEMASTER III (PST-48Y7)	7.7
PSG-5RM	7.3
LSD VALUE	1.4
C.V. (%)	10.9

TABLE 52D. WINTER DENSITY RATINGS OF HARD CULTIVARS 1/
 2009-13 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

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

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ WINTER DENSITY RATED IN 2009 ONLY.

TABLE 53A. PERCENT ESTABLISHMENT RATINGS OF FINELEAF FESCUE CULTIVARS 1/
AT KINGSTON, RI 2/
2009 DATA

NAME	SPRING	SUMMER	MEAN
CASCADE	83.3	90.0	86.7
ZODIAC	86.7	83.3	85.0
INTRIGUE 2	75.0	81.7	78.3
WRIGLEY 2 (IS-FRC-35)	76.7	78.3	77.5
FAIRMONT (TCD)	73.3	78.3	75.8
ROSECITY (IS-FRR-51)	68.3	76.7	72.5
GOTHAM	63.3	80.0	71.7
RADAR (MVS-FRC-101)	76.7	65.0	70.8
LONGFELLOW 3 (IS-FRC-33)	61.7	78.3	70.0
TREAZURE II	71.7	68.3	70.0
ABERDEEN	53.3	85.0	69.2
PST-4HES	50.0	88.3	69.2
EPIC	68.3	68.3	68.3
LACROSSE	66.7	70.0	68.3
CHANTILLY (IS-FRR-62)	58.3	73.3	65.8
NAVIGATOR II (MVS-OS-1)	61.7	68.3	65.0
SPARTAN II	60.0	68.3	64.2
BEACON (Z6300)	60.0	68.3	64.2
BIGHORN GT (PST-4BU3)	60.0	66.7	63.3
PSG 50C3	58.3	66.7	62.5
SHADEMASTER III (PST-48Y7)	50.0	75.0	62.5
SHADOW III (PST-4CSD)	53.3	68.3	60.8
SWORD (NC-HF1)	50.0	60.0	55.0
PSG-5RM	50.0	60.0	55.0
BOREAL	55.0	40.0	47.5
LSD VALUE	15.5	39.9	16.7
C.V. (%)	14.3	21.3	13.3

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

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

TABLE 53B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
AT KINGSTON, RI 2/
2009 DATA

NAME	SPRING	SUMMER	MEAN
CASCADE	83.3	90.0	86.7
ZODIAC	86.7	83.3	85.0
INTRIGUE 2	75.0	81.7	78.3
WRIGLEY 2 (IS-FRC-35)	76.7	78.3	77.5
FAIRMONT (TCD)	73.3	78.3	75.8
RADAR (MVS-FRC-101)	76.7	65.0	70.8
LONGFELLOW 3 (IS-FRC-33)	61.7	78.3	70.0
TREAZURE II	71.7	68.3	70.0
LACROSSE	66.7	70.0	68.3
PSG 50C3	58.3	66.7	62.5
SHADOW III (PST-4CSD)	53.3	68.3	60.8
LSD VALUE	16.9	33.5	13.6
C.V. (%)	12.9	17.5	10.1

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

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

TABLE 53C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
AT KINGSTON, RI 2/
2009 DATA

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

TABLE 53D. PERCENT ESTABLISHMENT RATINGS OF HARD FESCUE CULTIVARS 1/
AT KINGSTON, RI 2/
2009 DATA

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

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

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

TABLE 54A. PERCENT ESTABLISHMENT RATINGS OF FINELEAF FESCUE CULTIVARS 1/
AT BLACKSBURG, VA 2/
2008 DATA

NAME	6 WEEKS	10 WEEKS	MEAN
CASCADE	58.3	81.7	70.0
BEACON (Z6300)	56.7	78.3	67.5
INTRIGUE 2	56.7	75.0	65.8
LACROSSE	56.7	73.3	65.0
RADAR (MVS-FRC-101)	55.0	75.0	65.0
EPIC	53.3	75.0	64.2
SPARTAN II	51.7	76.7	64.2
GOTHAM	51.7	73.3	62.5
PSG 50C3	51.7	73.3	62.5
PSG-5RM	50.0	75.0	62.5
TREAZURE II	48.3	76.7	62.5
CHANTILLY (IS-FRR-62)	50.0	71.7	60.8
NAVIGATOR II (MVS-OS-1)	48.3	73.3	60.8
PST-4HES	50.0	71.7	60.8
ZODIAC	45.0	76.7	60.8
ROSECITY (IS-FRR-51)	50.0	68.3	59.2
SHADEMASTER III (PST-48Y7)	46.7	71.7	59.2
BOREAL	48.3	68.3	58.3
FAIRMONT (TCD)	46.7	70.0	58.3
SHADOW III (PST-4CSD)	45.0	70.0	57.5
ABERDEEN	45.0	68.3	56.7
BIGHORN GT (PST-4BU3)	45.0	68.3	56.7
SWORD (NC-HF1)	45.0	68.3	56.7
LONGFELLOW 3 (IS-FRC-33)	45.0	66.7	55.8
WRIGLEY 2 (IS-FRC-35)	40.0	66.7	53.3
LSD VALUE	14.0	24.0	16.5
C.V. (%)	12.3	10.0	9.9

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

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

TABLE 54B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
AT BLACKSBURG, VA 2/
2008 DATA

NAME	6 WEEKS	10 WEEKS	MEAN
CASCADE	58.3	81.7	70.0
INTRIGUE 2	56.7	75.0	65.8
LACROSSE	56.7	73.3	65.0
RADAR (MVS-FRC-101)	55.0	75.0	65.0
PSG 50C3	51.7	73.3	62.5
TREAZURE II	48.3	76.7	62.5
ZODIAC	45.0	76.7	60.8
FAIRMONT (TCD)	46.7	70.0	58.3
SHADOW III (PST-4CSD)	45.0	70.0	57.5
LONGFELLOW 3 (IS-FRC-33)	45.0	66.7	55.8
WRIGLEY 2 (IS-FRC-35)	40.0	66.7	53.3
LSD VALUE	12.8	17.6	12.8
C.V. (%)	12.9	9.7	9.6

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

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

TABLE 54C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
AT BLACKSBURG, VA 2/
2008 DATA

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

TABLE 54D. PERCENT ESTABLISHMENT RATINGS OF HARD FESCUE CULTIVARS 1/
AT BLACKSBURG, VA 2/
2008 DATA

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

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

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

TABLE 55A. PERCENT ESTABLISHMENT RATINGS OF FINELEAF FESCUE CULTIVARS 1/
AT PUYALLUP, WA 2/
2008 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
ZODIAC	80.0	86.7	83.3
TREAZURE II	73.3	85.0	79.2
EPIC	73.3	81.7	77.5
INTRIGUE 2	70.0	85.0	77.5
RADAR (MVS-FRC-101)	73.3	81.7	77.5
GOTHAM	73.3	80.0	76.7
CASCADE	63.3	88.3	75.8
FAIRMONT (TCD)	73.3	78.3	75.8
WRIGLEY 2 (IS-FRC-35)	66.7	81.7	74.2
CHANTILLY (IS-FRR-62)	66.7	80.0	73.3
PSG 50C3	63.3	81.7	72.5
SPARTAN II	66.7	76.7	71.7
LONGFELLOW 3 (IS-FRC-33)	63.3	76.7	70.0
PSG-5RM	66.7	73.3	70.0
ROSECITY (IS-FRR-51)	63.3	75.0	69.2
LACROSSE	60.0	78.3	69.2
NAVIGATOR II (MVS-OS-1)	60.0	78.3	69.2
SHADOW III (PST-4CSD)	56.7	80.0	68.3
BEACON (Z6300)	60.0	76.7	68.3
BIGHORN GT (PST-4BU3)	60.0	75.0	67.5
ABERDEEN	66.7	66.7	66.7
PST-4HES	60.0	71.7	65.8
SHADEMASTER III (PST-48Y7)	53.3	73.3	63.3
SWORD (NC-HF1)	53.3	70.0	61.7
BOREAL	46.7	66.7	56.7
LSD VALUE	12.8	15.3	9.6
C.V. (%)	11.2	9.0	7.7

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

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

TABLE 55B. PERCENT ESTABLISHMENT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
AT PUYALLUP, WA 2/
2008 DATA

NAME	SEPTEMBER	NOVEMBER	MEAN
ZODIAC	80.0	86.7	83.3
TREAZURE II	73.3	85.0	79.2
INTRIGUE 2	70.0	85.0	77.5
RADAR (MVS-FRC-101)	73.3	81.7	77.5
CASCADE	63.3	88.3	75.8
FAIRMONT (TCD)	73.3	78.3	75.8
WRIGLEY 2 (IS-FRC-35)	66.7	81.7	74.2
PSG 50C3	63.3	81.7	72.5
LONGFELLOW 3 (IS-FRC-33)	63.3	76.7	70.0
LACROSSE	60.0	78.3	69.2
SHADOW III (PST-4CSD)	56.7	80.0	68.3
LSD VALUE	20.3	20.8	14.8
C.V. (%)	13.4	9.1	8.5

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

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

TABLE 55C. PERCENT ESTABLISHMENT RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/
AT PUYALLUP, WA 2/
2008 DATA

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

TABLE 55D. PERCENT ESTABLISHMENT RATINGS OF HARD CULTIVARS 1/
AT PUYALLUP, WA 2/
2008 DATA

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

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

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

Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP

TABLE 56A.

RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS
AT PUYALLUP, WA 1/
2009-12 DATA

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

NAME	JUN_2009	SEP_2009	JAN_2010	JUN_2010	SEP_2010	APR_2011	MAY_2011	JUN_2011	MAY_2012	OCT_2012	NOV_2012	DEC_2012	MEAN
SPARTAN II	7.3	6.7	8.0	9.0	6.0	6.3	8.0	6.7	7.7	7.7	7.3	7.3	7.3
BEACON (Z6300)	8.0	8.3	7.7	9.0	5.3	6.7	8.0	5.7	5.7	6.7	7.0	7.3	7.2
SWORD (NC-HF1)	7.7	8.3	8.0	9.0	5.7	6.7	8.0	4.7	7.0	7.0	7.0	6.0	7.2
GOTHAM	8.3	8.0	8.3	9.0	5.3	7.3	7.7	4.7	6.3	6.0	5.7	6.0	7.1
PST-4HES	7.7	7.7	7.7	9.0	5.3	6.7	7.3	5.3	6.3	7.3	7.3	5.7	7.0
BIGHORN GT (PST-4BU3)	7.3	6.7	8.0	9.0	4.3	6.0	7.7	3.7	4.7	6.3	6.3	5.7	6.4
PSG 50C3	9.0	7.7	7.0	9.0	4.0	5.3	6.3	6.0	4.7	4.3	5.3	4.0	6.4
PSG-5RM	8.3	7.3	5.3	8.7	4.0	6.0	6.7	5.0	5.7	4.7	5.7	5.3	6.3
LONGFELLOW 3 (IS-FRC-33)	8.3	7.3	6.7	9.0	4.3	5.0	4.7	5.0	4.7	5.7	5.3	6.0	6.2
TREAZURE II	7.3	7.3	7.7	9.0	4.0	5.3	5.0	3.7	5.3	5.0	6.0	5.3	6.1
FAIRMONT (TCD)	8.0	7.7	7.3	9.0	3.7	5.0	3.7	3.7	3.7	6.3	5.7	5.3	6.0
INTRIGUE 2	7.0	7.0	6.7	9.0	4.0	4.0	4.3	5.0	6.0	6.3	5.7	6.0	6.0
ZODIAC	7.7	7.7	6.7	9.0	3.7	4.0	5.0	4.7	4.7	6.0	5.3	5.3	6.0
CHANTILLY (IS-FRR-62)	7.0	7.0	5.7	9.0	4.0	5.7	5.3	4.3	4.3	6.0	5.0	5.3	5.9
WRIGLEY 2 (IS-FRC-35)	8.0	7.0	6.7	9.0	4.0	5.0	5.3	4.7	4.3	5.0	4.3	4.7	5.9
NAVIGATOR II (MVS-OS-1)	6.7	5.3	6.3	9.0	4.3	5.3	6.0	5.0	5.0	5.3	5.0	6.0	5.8
RADAR (MVS-FRC-101)	7.7	6.0	7.0	9.0	3.3	5.3	4.7	4.0	4.0	6.0	5.3	5.7	5.8
ROSECITY (IS-FRR-51)	7.3	7.0	6.0	8.7	4.0	5.3	4.0	4.3	5.0	5.0	5.0	4.7	5.7
SHADEMASTER III (PST-48Y7)	7.0	6.7	6.0	8.0	4.3	4.3	5.7	4.7	4.3	4.7	5.3	4.7	5.6
LACROSSE	8.3	7.0	6.7	9.0	4.0	3.7	3.7	3.0	3.0	4.7	4.3	4.3	5.4
SHADOW III (PST-4CSD)	7.3	6.7	6.3	8.7	3.7	4.0	3.3	3.7	5.0	5.0	5.0	4.0	5.4
CASCADE	6.7	6.3	6.7	8.3	3.3	4.7	4.3	3.7	3.0	4.7	4.7	4.3	5.3
EPIC	6.3	7.7	6.7	9.0	3.0	4.0	2.7	3.0	4.0	4.7	3.3	4.7	5.2
ABERDEEN	6.7	6.3	5.0	8.0	3.7	4.0	4.0	4.0	3.3	4.7	4.0	4.3	5.0
BOREAL	4.0	4.0	5.7	7.3	3.3	3.0	3.3	4.0	4.3	4.7	5.0	3.7	4.3
LSD VALUE	1.9	1.7	1.4	0.5	1.2	1.5	1.3	1.3	2.3	2.0	1.9	1.4	0.9
C.V. (%)	13.6	13.3	11.6	3.8	16.1	17.4	16.1	17.4	25.2	18.7	18.6	15.7	19.5

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

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

TABLE 56B.

RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS
AT PUYALLUP, WA 1/
2009-12 DATA

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

NAME	JUN_2009	SEP_2009	JAN_2010	JUN_2010	SEP_2010	APR_2011	MAY_2011	JUN_2011	MAY_2012	OCT_2012	NOV_2012	DEC_2012	MEAN
PSG 50C3	9.0	7.7	7.0	9.0	4.0	5.3	6.3	6.0	4.7	4.3	5.3	4.0	6.4
LONGFELLOW 3 (IS-FRC-33)	8.3	7.3	6.7	9.0	4.3	5.0	4.7	5.0	4.7	5.7	5.3	6.0	6.2
TREAZURE II	7.3	7.3	7.7	9.0	4.0	5.3	5.0	3.7	5.3	5.0	6.0	5.3	6.1
FAIRMONT (TCD)	8.0	7.7	7.3	9.0	3.7	5.0	3.7	3.7	3.7	6.3	5.7	5.3	6.0
INTRIGUE 2	7.0	7.0	6.7	9.0	4.0	4.0	4.3	5.0	6.0	6.3	5.7	6.0	6.0
ZODIAC	7.7	7.7	6.7	9.0	3.7	4.0	5.0	4.7	4.7	6.0	5.3	5.3	6.0
WRIGLEY 2 (IS-FRC-35)	8.0	7.0	6.7	9.0	4.0	5.0	5.3	4.7	4.3	5.0	4.3	4.7	5.9
RADAR (MVS-FRC-101)	7.7	6.0	7.0	9.0	3.3	5.3	4.7	4.0	4.0	6.0	5.3	5.7	5.8
LACROSSE	8.3	7.0	6.7	9.0	4.0	3.7	3.7	3.0	3.0	4.7	4.3	4.3	5.4
SHADOW III (PST-4CSD)	7.3	6.7	6.3	8.7	3.7	4.0	3.3	3.7	5.0	5.0	5.0	4.0	5.4
CASCADE	6.7	6.3	6.7	8.3	3.3	4.7	4.3	3.7	3.0	4.7	4.7	4.3	5.3
LSD VALUE	2.3	2.8	1.8	0.5	1.7	1.3	2.0	1.3	2.7	1.6	2.4	1.3	2.0
C.V. (%)	12.5	14.7	10.0	2.7	16.4	14.0	21.3	17.1	27.4	14.8	17.6	14.1	23.3

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 56C. Taken from the 2008 Fineleaf Fescue test - Final data report with permission from NTEP.
RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS

AT PUYALLUP, WA 1/
2009-12 DATA

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

NAME	JUN_2009	SEP_2009	JAN_2010	JUN_2010	SEP_2010	APR_2011	MAY_2011	JUN_2011	MAY_2012	OCT_2012	NOV_2012	DEC_2012	MEAN
PSG-5RM	8.3	7.3	5.3	8.7	4.0	6.0	6.7	5.0	5.7	4.7	5.7	5.3	6.3
CHANTILLY (IS-FRR-62)	7.0	7.0	5.7	9.0	4.0	5.7	5.3	4.3	4.3	6.0	5.0	5.3	5.9
NAVIGATOR II (MVS-OS-1)	6.7	5.3	6.3	9.0	4.3	5.3	6.0	5.0	5.0	5.3	5.0	6.0	5.8
ROSECITY (IS-FRR-51)	7.3	7.0	6.0	8.7	4.0	5.3	4.0	4.3	5.0	5.0	5.0	4.7	5.7
SHADEMASTER III (PST-48Y7)	7.0	6.7	6.0	8.0	4.3	4.3	5.7	4.7	4.3	4.7	5.3	4.7	5.6
EPIC	6.3	7.7	6.7	9.0	3.0	4.0	2.7	3.0	4.0	4.7	3.3	4.7	5.2
ABERDEEN	6.7	6.3	5.0	8.0	3.7	4.0	4.0	4.0	3.3	4.7	4.0	4.3	5.0
BOREAL	4.0	4.0	5.7	7.3	3.3	3.0	3.3	4.0	4.3	4.7	5.0	3.7	4.3
LSD VALUE	2.5	1.4	1.1	0.9	2.2	1.7	1.7	1.0	3.9	3.3	3.2	2.1	1.0
C.V. (%)	18.5	12.7	9.2	5.8	22.7	19.3	20.5	12.3	33.6	24.9	27.1	19.4	20.9

TABLE 56D.

RED THREAD RATINGS OF HARD FESCUE CULTIVARS

AT PUYALLUP, WA 1/
2009-12 DATA

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

NAME	JUN_2009	SEP_2009	JAN_2010	JUN_2010	SEP_2010	APR_2011	MAY_2011	JUN_2011	MAY_2012	OCT_2012	NOV_2012	DEC_2012	MEAN
SPARTAN II	7.3	6.7	8.0	9	6.0	6.3	8.0	6.7	7.7	7.7	7.3	7.3	7.3
BEACON (Z6300)	8.0	8.3	7.7	9	5.3	6.7	8.0	5.7	5.7	6.7	7.0	7.3	7.2
SWORD (NC-HF1)	7.7	8.3	8.0	9	5.7	6.7	8.0	4.7	7.0	7.0	7.0	6.0	7.2
GOTHAM	8.3	8.0	8.3	9	5.3	7.3	7.7	4.7	6.3	6.0	5.7	6.0	7.1
PST-4HES	7.7	7.7	7.7	9	5.3	6.7	7.3	5.3	6.3	7.3	7.3	5.7	7.0
BIGHORN GT (PST-4BU3)	7.3	6.7	8.0	9	4.3	6.0	7.7	3.7	4.7	6.3	6.3	5.7	6.4
LSD VALUE	2.0	1.6	2.4	0	1.0	3.3	1.0	2.4	1.2	2.8	1.1	1.1	0.8
C.V. (%)	10.7	10.1	11.6	0	9.1	19.7	5.6	21.9	10.8	16.9	8.4	9.1	11.4

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

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