

NATIONAL TURFGRASS EVALUATION PROGRAM

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

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

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

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A Guide to NTEP Turfgrass Ratings

Introduction

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

General Considerations

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

Turfgrass Quality

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

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

Other Ratings

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

2010 NATIONAL PERENNIAL RYEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2014

State	Location	Code
Illinois	Urbana	IL1
Iowa	Ames	IA1
Maryland	College Park	MD1
Massachusetts	Amherst	MA1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
Oregon	Corvallis	OR1
Pennsylvania	University Park	PA1
Pennsylvania	University Park (Traffic Study)	PA2
Virginia	Blacksburg	VA1

2010 NATIONAL PERENNIAL RYEGRASS TEST
Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
* 1	Rinovo	Semillas Fito	*46	Excellence (ISG-31)	Integrated Seeds
* 2	CL 11601 (Vision)	The Scotts Company	*47	ASP 0112 (A-35)	Allied Seeds
* 3	Pizzazz 2 GLR (PR 909)	Turf Merchants, Inc.	48	CS-PR66	Columbia Seeds
* 4	Pangea GLR (CL 11701)	Turf Merchants, Inc.	*49	Pillar (CST)	Columbia Seeds
* 5	Sunstreaker (APR 2036)	Brett Young Seeds Ltd.	50	JR-178	Jacklin Seed by Simplot
* 6	Linn	Standard Entry	51	JR-192	Jacklin Seed by Simplot
* 7	Uno	Standard Entry	*52	SR 4650 (PSRX-3701)	Seed Research of Oregon
8	DLF LGD-3026	DLF International Seeds	*53	Karma (PICK 10401)	Pickseed USA, Inc.
9	DLF LGD-3022	DLF International Seeds	*54	Mach I	Standard Entry
*10	Sideways (PSRX-S84)	Seed Research of Oregon	*55	Pepper (RAD-PR62)	Radix Research
*11	Wicked (SRX-4RHD)	Pickseed Inc.	56	RAD-PR55R	Lewis Seed
*12	Playoff 2 (P02)	John Deere Landscapes	*57	Riptide (IS-PR 409)	Brett Young Seeds Ltd.
*13	Evolution (S85)	John Deere Landscapes	*58	Bandalore (IS-PR 463)	DLF International Seeds
14	LTP-RAE	Lebanon Turf Products	*59	Thrive (IS-PR 469)	DLF International Seeds
*15	Allante	Ledeboer Seed/Pro-Turf Solutions-OVS	*60	Hancock (IS-PR 479)	DLF International Seeds
*16	Insight	Ledeboer Seed/Pro-Turf Solutions-OVS	*61	Stamina (IS-PR 487)	DLF International Seeds
*17	Sienna	Ledeboer Seed/Pro-Turf Solutions-OVS	*62	Monsieur (IS-PR 488)	DLF International Seeds
*18	Brightstar SLT	Standard Entry	*63	Banfield (IS-PR 491)	DLF International Seeds
*19	Expedite (CL 307)	Landmark Native Seeds	*64	Aspire (IS-PR 489)	DLF International Seeds
20	APR 2320	Pennington Seed	*65	Diligent (IS-PR 492)	DLF International Seeds
*21	Haven (APR 2038)	Smith Seed Services	66	DLF LGT 4182	DLF International Seeds
*22	Green Supreme (PPG-PR 121)	Ampac Seed Company	*67	Seductive (ISG-30)	Integrated Seeds
23	PPG-PR 128	Integra Turf, Inc.	*68	Salinas II (PST-204D)	Landmark Native Seeds
*24	Fastball RGL (PPG-PR 133)	Mountain View Seeds	69	PST-2NKM	Pure-Seed Testing
*25	Stellar 3GL (PPG-PR 134)	Mountain View Seeds	70	PST-2DR9	Pure-Seed Testing
26	LTP-PR 135	Lebanon Turf Products	*71	Pacific GEM (PST-2MG7)	Pure-Seed Testing
27	PPG-PR 136	Lewis Seed	*72	Rainwater (PST-2TQL)	Pure-Seed Testing
*28	Premium (PPG-PR 137)	Columbia Seeds	*73	Dominator (PST-2AG4)	Brett Young Seeds Ltd.
*29	Amazing A+ (PPG-PR 138)	Ampac Seed Company	*74	MANHATTAN 6 GLR (PST-2MAGS)	Turf Merchants, Inc.
*30	Apple SGL (PPG-PR 140)	Mountain View Seeds	75	PST-2K9	The Scotts Company
31	PPG-PR 142	Peak Plant Genetics	*76	Benchmark (PST-2BNS)	Landmark Native Seeds
*32	Provost (PPG-PR 143)	Columbia Seeds	*77	Pistol (PST-2ACR)	The Scotts Company
*33	Grand Slam GLD (PPG-PR 164)	Mountain View Seeds	*78	Rio Vista	Burlingham Seeds
*34	Metolius (PPG-PR 165)	Proseeds	*79	Octane	Burlingham Seeds
35	BAR Lp 10969	Barenbrug USA	*80	Bonneville	Burlingham Seeds
36	BAR Lp 10972	Barenbrug USA	81	PSRX-4CAGL	Pickseed USA & Seed Research of OR
37	BAR Lp 10970	Barenbrug USA	82	GO-DHS	Grassland Oregon
38	PST-2NJK	Barenbrug USA	83	GO-PR60	Grassland Oregon
39	BAR Lp 7608	Barenbrug USA	*84	Sox Fan (GM3)	Landmark Native Seeds
*40	Pinnacle	Standard Entry	85	PRX-4GM1	Pickseed USA & Seed Research of OR
41	APR 2445	ProSeeds Marketing	*86	SR4660ST (SRX-4MSH)	Seed Research of Oregon
*42	Fiesta 4	Standard Entry	87	Pick 4DFHM	Pickseed USA, Inc.
43	GO-G37	Grassland Oregon	*88	Palmer V	Standard Entry
*44	Prominent (CS-20)	Columbia Seeds			
*45	Vintage (ISG-36)	Integrated Seeds			

* COMMERCIALY AVAILABLE IN THE USA IN 2015

TABLE A.

2014 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2010 NATIONAL PERENNIAL RYEGRASS 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
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MA1	LOAM	5.6-6.0	0-60	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MO1	SILT LOAM AND SILT	5.6-6.0	61-150	241-375	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
NE1	SILTY CLAY AND CLAY	6.6-7.0	0-60	241-375	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	271-450	241-375	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OR1	SILTY CLAY LOAM	5.6-6.0	61-150	241-375	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
PA1	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
PA2	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
VA1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2014

LOCATION TEXTURE	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
IA1					X	X	X	X	X	X				X	
IL1				X	X	X	X	X	X	X			X	X	
MA1					X	X	X	X	X	X	X	X			
MD1					X	X	X	X	X	X	X				
MO1				X	X	X	X	X	X	X			X		X
NE1				X	X	X	X	X	X	X			X	X	
NJ2				X	X	X	X	X	X	X			X		
OR1	X	X	X	X	X	X	X	X	X	X	X	X	X		
PA1						X	X	X	X				X		
PA2															
VA1					X	X	X	X	X	X	X				

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2014

LOCATION	PERCENT COVER SUMMER	PERCENT COVER FALL	PERCENT WINTER KILL	STEM RUST	DOLLAR SPOT	RED THREAD	CROWN RUST	MOWING QUALITY	PERCENT POA ANNUA	POA ANNUA COUNTS
IA1				X						
IL1										
MA1										X
MD1									X	
MO1	X	X			X	X	X			
NE1										
NJ2										
OR1										
PA1				X				X		
* PA2										
VA1										

* MORE TRAFFIC DATA FOR PA2 IN TABLE 3.

TABLE 1. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	PA1	MA1	NJ2	IL1	MO1	NE1	OR1	MEAN
* GRAND SLAM GLD (PPG-PR 164)	7.7	5.6	6.1	6.7	6.8	3.9	6.7	6.2
* KARMA (PICK 10401)	7.3	5.4	5.9	6.6	6.7	3.9	6.6	6.1
* THRIVE (IS-PR 469)	6.9	5.4	5.6	6.5	6.6	4.4	6.7	6.0
* PANGAEA GLR (CL 11701)	7.4	5.3	5.8	6.6	6.6	3.7	6.6	6.0
* SR 4650 (PSRX-3701)	6.8	5.1	5.5	6.5	6.5	4.4	6.7	5.9
* RIO VISTA	7.2	5.2	5.7	6.3	6.4	3.5	6.3	5.8
* PIZZAZZ 2 GLR (PR 909)	7.1	5.3	5.7	6.3	6.4	3.6	6.3	5.8
* EVOLUTION (S85)	7.1	5.1	5.6	6.4	6.4	3.7	6.4	5.8
* STELLAR 3GL (PPG-PR 134)	7.1	5.2	5.7	6.3	6.4	3.6	6.3	5.8
* GREEN SUPREME (PPG-PR 121)	6.7	5.2	5.5	6.2	6.4	4.0	6.4	5.8
* RINOVO	6.2	5.2	5.2	6.2	6.4	4.7	6.6	5.8
JR-192	6.1	5.0	5.1	6.2	6.3	4.6	6.5	5.7
* BANDALORE (IS-PR 463)	6.9	5.1	5.5	6.1	6.3	3.6	6.2	5.7
* BENCHMARK (PST-2BNS)	6.7	4.9	5.3	6.2	6.2	3.8	6.3	5.6
* BANFIELD (IS-PR 491)	6.8	4.9	5.4	6.1	6.2	3.6	6.2	5.6
* APPLE SGL (PPG-PR 140)	6.0	4.8	4.9	6.1	6.2	4.6	6.5	5.6
* FIESTA 4	6.5	5.1	5.3	6.0	6.2	3.8	6.2	5.6
* STAMINA (IS-PR 487)	6.7	4.9	5.3	6.2	6.2	3.7	6.3	5.6
* SUNSTREAKER (APR 2036)	6.6	5.0	5.3	6.1	6.2	3.7	6.2	5.6
JR-178	7.1	5.0	5.6	6.1	6.2	3.1	6.0	5.6
* PREMIUM (PPG-PR 137)	6.4	4.8	5.1	6.1	6.2	4.1	6.4	5.6
* WICKED (SRX-4RHD)	6.7	4.8	5.3	6.1	6.2	3.6	6.2	5.6
* DILIGENT (IS-PR 492)	6.9	4.9	5.4	6.1	6.2	3.4	6.1	5.6
LTP-RAE	6.7	5.0	5.3	6.0	6.2	3.6	6.1	5.6
* MANHATTAN 6 GLR (PST-2MAGS)	5.9	4.9	4.9	6.0	6.2	4.6	6.5	5.6
* CL 11601 (VISION)	6.5	4.7	5.1	6.2	6.1	3.9	6.4	5.6
* ASPIRE (IS-PR 489)	7.0	4.9	5.4	6.1	6.1	3.2	6.0	5.5
* FASTBALL RGL (PPG-PR 133)	6.9	5.0	5.4	6.0	6.2	3.3	6.0	5.5
* PALMER V	6.2	4.8	5.0	6.0	6.1	4.1	6.3	5.5
* HANCOCK (IS-PR 479)	6.0	4.8	4.9	6.0	6.1	4.3	6.4	5.5
* AMAZING A+ (PPG-PR 138)	6.7	4.8	5.3	6.1	6.1	3.5	6.1	5.5
PPG-PR 128	5.7	4.7	4.7	6.0	6.1	4.7	6.5	5.5
* SR4660ST (SRX-4MSH)	6.1	4.8	5.0	6.0	6.1	4.2	6.3	5.5
* DOMINATOR (PST-2AG4)	6.5	4.9	5.2	6.0	6.1	3.6	6.1	5.5
* OCTANE	6.6	4.8	5.2	6.0	6.1	3.6	6.1	5.5
APR-2320	6.7	5.0	5.4	5.9	6.1	3.2	5.9	5.5
PST-2NKM	6.5	4.7	5.1	6.0	6.0	3.7	6.2	5.5
APR-2445	6.4	4.7	5.1	6.0	6.0	3.8	6.2	5.4
* INSIGHT	6.0	4.9	4.9	5.8	6.1	4.2	6.2	5.4
* SIENNA	6.6	5.0	5.3	5.8	6.1	3.4	5.9	5.4
PSRX-4CAGL	6.2	4.8	5.0	5.9	6.0	3.9	6.2	5.4
* METOLIUS (PPG-PR 165)	6.9	4.7	5.3	6.0	6.0	3.1	6.0	5.4
* PILLAR (CST)	6.5	4.7	5.1	6.0	6.0	3.5	6.1	5.4
* RIPTIDE (IS-PR 409)	7.0	4.9	5.4	5.9	6.0	2.9	5.8	5.4
GO-PR60	6.0	4.7	4.9	5.9	6.0	4.1	6.2	5.4
* SIDEWAYS (PSRX-S84)	6.4	4.6	5.0	6.0	6.0	3.6	6.1	5.4
LTP-PR 135	6.7	4.7	5.2	6.0	6.0	3.2	6.0	5.4
* EXPEDITE (CL 307)	6.7	4.6	5.2	6.0	6.0	3.3	6.0	5.4
* BONNEVILLE	6.4	4.7	5.1	5.9	6.0	3.5	6.0	5.4
PST-2K9	5.7	4.5	4.7	5.9	6.0	4.4	6.3	5.4
CS-PR66	6.0	4.7	4.9	5.8	6.0	4.0	6.1	5.4

TABLE 1. (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	PA1	MA1	NJ2	IL1	MO1	NE1	OR1	MEAN
* ALLANTE	5.9	4.7	4.8	5.8	6.0	4.1	6.1	5.3
* PEPPER (RAD-PR62)	6.2	4.7	5.0	5.8	6.0	3.7	6.0	5.3
PST-2NJK	5.6	4.5	4.6	5.9	5.9	4.6	6.4	5.3
* PROVOST (PPG-PR 143)	6.8	4.6	5.2	5.9	5.9	2.9	5.8	5.3
PPG-PR 136	6.7	4.5	5.1	5.9	5.9	3.1	5.9	5.3
RAD-PR55R	6.0	4.7	4.9	5.8	5.9	3.8	6.0	5.3
* PACIFIC GEM (PST-2MG7)	5.8	4.5	4.7	5.8	5.9	4.1	6.2	5.3
* SEDUCTIVE (ISG-30)	4.9	4.5	4.2	5.7	5.9	5.1	6.4	5.2
* HAVEN (APR 2038)	5.5	4.4	4.5	5.8	5.8	4.4	6.2	5.2
BAR LP 10970	5.2	4.4	4.3	5.7	5.8	4.7	6.3	5.2
PPG-PR 142	6.1	4.4	4.8	5.8	5.8	3.6	6.0	5.2
* SOX FAN (GM3)	5.9	4.5	4.7	5.7	5.8	3.8	6.0	5.2
PRX-4GM1	5.8	4.4	4.6	5.7	5.8	3.9	6.0	5.2
* UNO	5.7	4.4	4.5	5.7	5.8	4.0	6.1	5.2
* RAINWATER (PST-2TQL)	6.2	4.5	4.9	5.6	5.8	3.3	5.8	5.2
PST-2DR9	6.0	4.3	4.7	5.6	5.7	3.5	5.9	5.1
* SALINAS II (PST-204D)	5.7	4.3	4.5	5.6	5.7	3.8	5.9	5.1
GO-G37	5.5	4.4	4.5	5.6	5.7	4.0	6.0	5.1
* PISTOL (PST-2ACR)	5.6	4.3	4.5	5.6	5.7	3.9	6.0	5.1
* MONSIEUR (IS-PR 488)	6.1	4.3	4.7	5.6	5.6	3.2	5.7	5.0
PICK 4DFHM	5.4	4.3	4.4	5.5	5.7	4.1	6.0	5.0
GO-DHS	4.5	4.3	3.9	5.4	5.6	5.1	6.2	5.0
* VINTAGE (ISG-36)	4.6	4.1	3.9	5.4	5.6	4.9	6.2	4.9
* BRIGHTSTAR SLT	5.2	4.2	4.2	5.4	5.6	4.1	5.9	4.9
* PROMINENT (CS-20)	4.9	4.1	4.0	5.4	5.6	4.5	6.0	4.9
* EXCELLENCE (ISG-31)	5.3	4.2	4.3	5.4	5.6	4.0	5.8	4.9
* MACH I	5.6	4.3	4.5	5.3	5.5	3.5	5.6	4.9
BAR LP 10972	5.6	4.2	4.4	5.4	5.5	3.5	5.7	4.9
* ASP 0112 (A-35)	5.6	4.1	4.4	5.4	5.5	3.5	5.7	4.9
BAR LP 10969	5.7	4.2	4.5	5.4	5.5	3.3	5.6	4.9
* PLAYOFF 2 (P02)	5.1	4.0	4.1	5.4	5.4	4.0	5.8	4.8
DLF LGD-3026	4.5	4.0	3.8	5.3	5.4	4.6	5.9	4.8
BAR LP 7608	5.1	4.1	4.2	5.2	5.4	3.7	5.6	4.8
DLF LGD-3022	5.4	3.9	4.2	5.3	5.3	3.4	5.6	4.7
DLF LGT 4182	4.3	3.9	3.6	5.2	5.3	4.6	5.9	4.7
* PINNACLE	4.4	3.6	3.6	4.8	5.0	3.8	5.4	4.4
* LINN	1.7	1.6	1.2	3.1	3.2	3.3	4.1	2.6
LSD VALUE	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)	10.1	8.5	8.0	6.7	6.6	10.2	6.4	7.3

* COMMERCIALY AVAILABLE IN THE USA IN 2015

** 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 2. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MD1	VA1	IA1	MEAN
PANGEA GLR (CL 11701)	6.5	6.9	6.7	6.7
SR 4650 (PSRX-3701)	6.3	7.0	6.4	6.6
CL 11601 (VISION)	6.3	6.7	6.2	6.4
EXPEDITE (CL 307)	6.5	6.4	6.2	6.4
METOLIUS (PPG-PR 165)	6.4	6.4	6.2	6.3
KARMA (PICK 10401)	5.7	6.8	6.4	6.3
EVOLUTION (S85)	5.9	6.6	6.3	6.3
GRAND SLAM GLD (PPG-PR 164)	5.5	6.8	6.5	6.3
PPG-PR 136	6.4	6.3	6.2	6.3
WICKED (SRX-4RHD)	5.7	6.5	6.1	6.1
BENCHMARK (PST-2BNS)	5.6	6.5	6.1	6.1
STAMINA (IS-PR 487)	5.6	6.5	6.0	6.0
PST-2NKM	5.6	6.4	6.0	6.0
THRIVE (IS-PR 469)	5.1	6.8	6.1	6.0
SIDEWAYS (PSRX-S84)	5.7	6.4	5.9	6.0
PREMIUM (PPG-PR 137)	5.4	6.6	5.9	6.0
APPLE SGL (PPG-PR 140)	5.3	6.7	5.8	5.9
DILIGENT (IS-PR 492)	5.5	6.3	6.0	5.9
STELLAR 3GL (PPG-PR 134)	5.2	6.5	6.1	5.9
PROVOST (PPG-PR 143)	5.7	6.1	5.9	5.9
LTP-PR 135	5.6	6.2	5.9	5.9
PST-2NJK	5.4	6.6	5.7	5.9
PPG-PR 142	5.6	6.2	5.7	5.9
BANFIELD (IS-PR 491)	5.2	6.4	5.9	5.9
PST-2K9	5.3	6.5	5.7	5.9
AMAZING A+ (PPG-PR 138)	5.3	6.3	5.9	5.8
PILLAR (CST)	5.3	6.3	5.8	5.8
RIO VISTA	4.9	6.4	6.0	5.8
UNO	5.3	6.3	5.6	5.8
JR-178	5.0	6.2	5.9	5.7
OCTANE	5.1	6.3	5.8	5.7
PACIFIC GEM (PST-2MG7)	5.1	6.4	5.6	5.7
APR-2445	5.0	6.3	5.7	5.7
PPG-PR 128	4.8	6.6	5.6	5.7
PISTOL (PST-2ACR)	5.3	6.2	5.5	5.7
ASPIRE (IS-PR 489)	5.0	6.2	5.8	5.7
PALMER V	4.9	6.4	5.7	5.7
HAVEN (APR 2038)	5.0	6.4	5.5	5.6
SUNSTREAKER (APR 2036)	4.7	6.3	5.7	5.6
PST-2DR9	5.1	6.1	5.5	5.6
HANCOCK (IS-PR 479)	4.6	6.4	5.6	5.6
SR4660ST (SRX-4MSH)	4.6	6.4	5.6	5.5
MONSIEUR (IS-PR 488)	5.0	5.9	5.5	5.5
PSRX-4CAGL	4.6	6.3	5.5	5.5
BONNEVILLE	4.7	6.1	5.6	5.4
BAR LP 10970	4.6	6.4	5.3	5.4
LTP-RAE	4.4	6.2	5.6	5.4
GREEN SUPREME (PPG-PR 121)	4.2	6.4	5.7	5.4
JR-192	4.2	6.5	5.5	5.4
BANDALORE (IS-PR 463)	4.3	6.2	5.7	5.4
CS-PR66	4.4	6.2	5.4	5.3

TABLE 2. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MD1	VA1	IA1	MEAN
PRX-4GM1	4.5	6.1	5.3	5.3
MANHATTAN 6 GLR (PST-2MAGS)	4.1	6.4	5.4	5.3
PIZZAZZ 2 GLR (PR 909)	4.0	6.2	5.7	5.3
DOMINATOR (PST-2AG4)	4.3	6.1	5.5	5.3
SALINAS II (PST-204D)	4.6	6.1	5.3	5.3
PLAYOFF 2 (P02)	4.7	6.0	5.1	5.3
DLF LGD-3022	4.8	5.8	5.1	5.2
ASP 0112 (A-35)	4.6	5.9	5.2	5.2
FASTBALL RGL (PPG-PR 133)	4.0	6.0	5.5	5.2
SOX FAN (GM3)	4.2	6.0	5.2	5.2
GO-PR60	4.0	6.2	5.3	5.2
VINTAGE (ISG-36)	4.2	6.3	4.9	5.1
RAD-PR55R	3.9	6.0	5.2	5.1
RAINWATER (PST-2TQL)	4.1	5.8	5.2	5.1
PEPPER (RAD-PR62)	3.8	6.0	5.2	5.0
GO-G37	4.0	6.0	5.0	5.0
PROMINENT (CS-20)	4.0	6.1	4.9	5.0
PICK 4DFHM	4.0	6.0	5.0	5.0
BAR LP 10969	4.2	5.7	5.1	5.0
RINOVO	3.2	6.4	5.3	5.0
BRIGHTSTAR SLT	4.0	6.0	4.9	5.0
FIESTA 4	3.5	6.1	5.3	4.9
RIPTIDE (IS-PR 409)	3.7	5.7	5.3	4.9
EXCELLENCE (ISG-31)	3.8	5.9	4.9	4.9
APR-2320	3.4	5.8	5.2	4.8
DLF LGD-3026	3.7	6.0	4.7	4.8
ALLANTE	3.3	6.0	5.0	4.8
SEDUCTIVE (ISG-30)	3.2	6.3	4.8	4.8
BAR LP 10972	3.7	5.7	4.9	4.7
INSIGHT	2.8	6.0	4.9	4.6
DLF LGT 4182	3.3	5.9	4.4	4.5
GO-DHS	2.7	6.0	4.4	4.4
MACH I	3.0	5.6	4.6	4.4
SIENNA	2.5	5.6	4.9	4.3
PINNACLE	3.0	5.4	4.2	4.2
BAR LP 7608	2.7	5.5	4.4	4.2
LINN	2.7	4.3	2.8	3.3
LSD VALUE	1.0	1.0	1.0	1.0
C.V. (%)	13.3	10.0	11.2	11.4

* ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS 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 3. PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN UNDER TRAFFIC STRESS AT UNIVERSITY PARK, PA 2/
2014 DATA

NAME	NO TRAFFIC 5_7	TRAFFIC 5_7	TRAFFIC 9_4	TRAFFIC 11_1
SIENNA	99	91.7	99.0	97.3
INSIGHT	99	97.0	99.0	93.3
CL 11601	99	94.7	99.0	93.0
FASTBALL RGL (PPG-PR 133)	99	85.0	99.0	91.7
SR 4650 (PSRX-3701)	99	91.0	99.0	91.0
EVOLUTION (S85)	99	88.3	98.0	90.0
GRAND SLAM GLD (PPG-PR 164)	99	88.3	99.0	89.3
PIZZAZZ 2 GLR (PR 909)	99	84.7	99.0	89.3
STELLAR 3GL (PPG-PR 134)	99	85.0	99.0	89.3
THRIVE (IS-PR 469)	99	91.3	97.7	89.3
APPLE SGL (PPG-PR 140)	99	90.0	98.7	88.7
SR4660ST (SRX-4MSH)	99	88.3	99.0	88.7
DLF LGD-3022	99	93.0	98.7	88.3
KARMA (PICK 10401)	99	93.3	99.0	88.3
ALLANTE	99	91.3	99.0	87.7
BANFIELD (IS-PR 489)	99	91.3	99.0	87.7
LTP-PR 135	99	85.3	99.0	87.7
LTP-RAE	99	89.0	99.0	87.7
METOLIUS (PPG-PR 165)	99	93.0	99.0	87.7
RINOV0	99	86.7	99.0	87.7
SALINAS II (PST-204D)	99	76.7	98.7	87.7
EXPEDITE (CL 307)	99	73.3	99.0	87.3
BANDALORE (IS-PR 463)	99	86.3	99.0	87.0
DILIGENT (IS-PR 492)	99	90.0	99.0	87.0
DLF LGD-3026	99	81.7	96.7	87.0
PREMIUM (PPG-PR 137)	99	76.3	98.3	87.0
PST-2NKM	99	90.0	99.0	87.0
RIPTIDE (IS-PR 409)	99	90.0	99.0	87.0
SUNSTREAKER (APR 2036)	99	94.3	97.0	87.0
ASPIRE (IS-PR 491)	99	80.0	98.0	86.7
BAR LP 10970	99	81.7	98.7	86.7
PROVOST (PPG-PR 143)	99	80.0	99.0	86.7
PST-2K9	99	86.7	99.0	86.7
PST-2NJK	99	89.0	98.3	86.7
AMAZING A+ (PPG-PR 138)	99	85.0	98.0	86.0
BAR LP 7608	99	85.0	99.0	86.0
DOMINATOR (PST-2AG4)	99	88.3	96.0	86.0
PPG-PR 136	99	81.7	99.0	86.0
SIDEWAYS (PSRX-S84)	99	83.0	99.0	86.0
HAVEN (APR 2038)	99	87.7	98.3	85.3
PST-2ACR	99	91.7	98.7	85.3
FIESTA 4	99	86.3	97.7	85.0
GREEN SUPREME (PPG-PR 121)	99	86.7	98.0	85.0
HANCOCK (IS-PR 479)	99	89.3	98.3	85.0
JR-192	99	87.3	99.0	85.0
PRX-4GM1	99	86.7	99.0	85.0
PST-2DR9	99	86.7	98.7	85.0

TABLE 3. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT UNIVERSITY PARK, PA 1/
2014 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	NO TRAFFIC 5_7	TRAFFIC 5_7	TRAFFIC 9_4	TRAFFIC 11_1
APR 2445	99	78.3	98.0	84.3
BAR LP 10972	99	85.0	98.3	84.3
LINN	99	73.3	94.3	84.3
PLAYOFF 2 (P02)	99	88.3	94.3	84.3
RAINWATER (PST-2TQL)	99	92.3	98.3	84.3
BRIGHTSTAR SLT	99	91.3	96.0	83.7
PST-2BNS	99	88.3	99.0	83.7
EXCELLENCE (ISG-31)	99	83.3	95.7	83.3
CS-PR66	99	83.3	96.7	82.7
PALMER V	99	86.7	99.0	82.7
PANGEA GLR (CL 11701)	99	79.3	99.0	82.7
PICK 4DFHM	99	76.7	98.3	82.7
PILLAR (CST)	99	71.7	97.7	82.7
PPG-PR 142	99	88.3	98.7	82.7
SOX FAN (GM3)	99	80.0	96.7	82.7
UNO	99	88.3	97.7	82.7
APR 2320	99	86.7	98.7	81.7
OCTANE	99	83.3	97.0	81.7
PACIFIC GEM (PST-2MG7)	99	80.0	98.7	81.7
PPG-PR 128	99	83.3	99.0	81.7
STAMINA (IS-PR 487)	99	94.7	99.0	81.7
WICKED (SRX-4RHD)	99	78.3	97.7	81.7
PSRX-4CAGL	99	81.7	98.0	81.0
BONNEVILLE	99	83.3	98.0	80.0
MACH I	99	89.3	96.3	80.0
MONSIEUR (IS-PR 488)	99	92.7	98.0	80.0
GO-G37	99	83.3	98.0	78.3
VINTAGE (ISG-36)	99	78.3	98.0	78.3
MANHATTAN 6 GLR (PST-2MAGS)	99	78.3	98.7	77.7
RAD-PR55R	99	83.3	98.0	77.7
RIO VISTA	99	85.0	99.0	77.7
GO-DHS	99	81.7	98.0	76.7
PINNACLE	99	88.3	96.3	76.7
JR-178	99	76.7	98.0	76.0
SEDUCTIVE (ISG-30)	99	75.0	98.3	76.0
PROMINENT (CS-20)	99	81.7	98.0	75.0
GO-PR60	99	76.7	98.7	74.3
PEPPER (RAD-PR62)	99	81.7	96.7	73.3
BAR LP 10969	99	65.0	93.0	72.7
ASP 0112 (A-35)	99	71.7	94.3	71.7
DLF LGT 4182	99	53.3	88.7	40.0
LSD VALUE	0	18.4	3.1	10.3
C.V. (%)	0	10.3	1.7	7.4

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

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

TABLE 4.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THREE LOCATIONS 1/
IN THE NORTHEAST REGION
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MA1	NJ2	PA1	MEAN	NAME	MA1	NJ2	PA1	MEAN
GRAND SLAM GLD (PPG-PR 164)	5.6	6.0	7.8	6.5	PALMER V	4.5	5.5	5.9	5.3
KARMA (PICK 10401)	5.7	5.9	7.7	6.4	SR4660ST (SRX-4MSH)	4.6	5.1	6.2	5.3
RIO VISTA	5.8	5.6	7.6	6.3	CL 11601 (VISION)	3.9	4.7	7.1	5.2
THRIVE (IS-PR 469)	4.8	5.9	7.7	6.1	SIDEWAYS (PSRX-S84)	4.0	5.0	6.6	5.2
PANGEA GLR (CL 11701)	5.4	6.0	6.8	6.1	HANCOCK (IS-PR 479)	4.3	4.7	6.4	5.1
JR-178	5.3	5.3	7.3	6.0	PPG-PR 142	4.5	4.6	6.3	5.1
SR 4650 (PSRX-3701)	5.0	5.6	7.3	6.0	PACIFIC GEM (PST-2MG7)	5.7	4.4	5.3	5.1
BANDALORE (IS-PR 463)	4.9	5.7	7.2	5.9	MANHATTAN 6 GLR (PST-2MAGS)	4.5	4.8	6.0	5.1
PIZZAZZ 2 GLR (PR 909)	5.3	5.2	7.2	5.9	RAD-PR55R	4.5	5.4	5.3	5.1
GREEN SUPREME(PPG-PR 121)	5.5	5.8	6.5	5.9	MONSIEUR (IS-PR 488)	3.4	5.2	6.5	5.0
STELLAR 3GL (PPG-PR 134)	4.9	5.3	7.4	5.9	RAINWATER (PST-2TQL)	4.1	5.1	5.9	5.0
SIENNA	6.0	4.8	6.8	5.9	PST-2DR9	4.4	4.7	6.0	5.0
EVOLUTION (S85)	4.8	5.6	7.1	5.8	SOX FAN (GM3)	4.2	4.9	5.9	5.0
RINOVO	5.3	5.3	6.9	5.8	PEPPER (RAD-PR62)	4.7	5.0	5.2	5.0
FIESTA 4	5.3	5.7	6.4	5.8	CS-PR66	4.5	5.5	4.9	5.0
BANFIELD (IS-PR 491)	5.2	5.6	6.6	5.8	PRX-4GM1	4.1	4.8	5.9	4.9
METOLIUS (PPG-PR 165)	5.0	5.4	7.0	5.8	HAVEN (APR 2038)	5.0	4.7	5.1	4.9
RIPTIDE (IS-PR 409)	4.9	5.7	6.8	5.8	UNO	3.9	5.0	5.9	4.9
LTP-RAE	4.3	5.6	7.3	5.7	GO-PR60	3.8	5.4	5.5	4.9
PROVOST (PPG-PR 143)	5.8	4.7	6.7	5.7	PST-2K9	4.4	4.5	5.8	4.9
ASPIRE (IS-PR 489)	4.2	5.8	7.1	5.7	BAR LP 10970	4.9	4.3	5.5	4.9
SUNSTREAKER (APR 2036)	5.5	5.0	6.4	5.7	PST-2NJJK	4.2	4.9	5.6	4.9
AMAZING A+ (PPG-PR 138)	5.4	4.7	6.9	5.7	MACH I	4.1	5.2	5.3	4.9
FASTBALL RGL (PPG-PR 133)	4.8	5.4	6.7	5.6	PICK 4DFHM	4.8	4.3	5.2	4.8
OCTANE	4.5	5.7	6.8	5.6	BAR LP 10972	4.7	4.3	5.2	4.7
PPG-PR 136	5.0	5.4	6.4	5.6	GO-G37	4.3	4.5	5.3	4.7
BENCHMARK (PST-2BNS)	4.8	5.4	6.7	5.6	ASP 0112 (A-35)	4.8	3.9	5.3	4.6
STAMINA (IS-PR 487)	5.3	4.9	6.7	5.6	BAR LP 10969	3.3	5.1	5.5	4.6
PILLAR (CST)	5.5	5.0	6.3	5.6	DLF LGD-3022	4.3	4.2	5.3	4.6
APR 2320	5.0	5.1	6.6	5.6	SALINAS II (PST-204D)	3.6	5.0	5.2	4.6
DILIGENT (IS-PR 492)	4.8	5.1	6.8	5.6	PISTOL (PST-2ACR)	3.5	4.4	5.7	4.5
WICKED (SRX-4RHD)	4.8	5.6	6.3	5.6	SEDUCTIVE (ISG-30)	3.5	4.1	5.8	4.5
INSIGHT	5.5	4.5	6.4	5.5	EXCELLENCE (ISG-31)	4.5	3.8	5.0	4.4
PST-2NKM	5.5	4.4	6.5	5.5	BRIGHTSTAR SLT	4.9	3.9	4.5	4.4
APR 2445	4.6	5.6	6.2	5.5	PROMINENT (CS-20)	4.1	4.0	4.9	4.3
LTP-PR 135	4.7	4.6	7.1	5.5	DLF LGD-3026	4.7	3.9	4.4	4.3
JR-192	4.9	4.9	6.5	5.4	BAR LP 7608	3.9	3.7	5.3	4.3
PPG-PR 128	5.2	4.6	6.4	5.4	PLAYOFF 2 (P02)	3.6	4.2	5.0	4.3
PREMIUM (PPG-PR 137)	4.4	5.2	6.7	5.4	VINTAGE (ISG-36)	3.6	4.0	5.1	4.2
ALLANTE	5.7	4.4	6.2	5.4	GO-DHS	4.3	3.8	4.5	4.2
EXPEDITE (CL 307)	4.5	5.0	6.7	5.4	PINNACLE	4.8	3.2	3.3	3.8
APPLE SGL (PPG-PR 140)	5.4	4.0	6.8	5.4	DLF LGT 4182	2.8	4.0	3.9	3.6
PSRX-4CAGL	4.8	5.3	6.1	5.4	LINN	2.3	1.0	1.6	1.6
DOMINATOR (PST-2AG4)	4.1	5.4	6.6	5.4					
BONNEVILLE	4.2	5.0	6.8	5.3	LSD VALUE	1.2	0.8	1.0	0.6
					C.V. (%)	16.5	9.6	10.0	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 5.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THREE LOCATIONS 1/
IN THE TRANSITION REGION
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MD1	MO1	VA1	MEAN	NAME	MD1	MO1	VA1	MEAN
PANGEA GLR (CL 11701)	6.5	6.7	6.7	6.6	MONSIEUR (IS-PR 488)	5.2	5.5	6.1	5.6
GRAND SLAM GLD (PPG-PR 164)	5.5	7.0	7.1	6.5	JR-192	4.2	6.3	6.2	5.6
BENCHMARK (PST-2BNS)	5.7	6.8	6.5	6.3	SR4660ST (SRX-4MSH)	4.4	5.7	6.6	5.6
DILIGENT (IS-PR 492)	5.6	6.9	6.5	6.3	FASTBALL RGL (PPG-PR 133)	3.9	6.2	6.6	5.6
EXPEDITE (CL 307)	6.5	6.2	6.1	6.3	HANCOCK (IS-PR 479)	4.9	6.2	5.6	5.6
EVOLUTION (S85)	5.7	6.5	6.7	6.3	PLAYOFF 2 (P02)	4.7	5.5	6.5	5.6
CL 11601 (VISION)	6.1	6.1	6.5	6.3	PRX-4GM1	4.5	5.8	6.3	5.5
KARMA (PICK 10401)	5.7	6.4	6.6	6.2	BRIGHTSTAR SLT	4.0	6.1	6.4	5.5
WICKED (SRX-4RHD)	5.6	5.9	7.1	6.2	PICK 4DFHM	4.1	5.9	6.5	5.5
METOLIUS (PPG-PR 165)	6.6	6.0	6.0	6.2	GO-PR60	3.8	6.6	6.1	5.5
STELLAR 3GL (PPG-PR 134)	5.0	6.4	7.1	6.2	MANHATTAN 6 GLR (PST-2MAGS)	3.9	6.2	6.5	5.5
SR 4650 (PSRX-3701)	6.4	5.8	6.2	6.1	JR-178	5.0	5.5	6.0	5.5
PPG-PR 136	6.5	5.6	6.3	6.1	PEPPER (RAD-PR62)	3.8	6.9	5.9	5.5
PST-2NKM	5.7	5.9	6.7	6.1	RAD-PR55R	4.0	6.4	6.0	5.5
PST-2K9	5.5	6.0	6.6	6.0	GREEN SUPREME(PPG-PR 121)	4.1	6.0	6.3	5.5
AMAZING A+ (PPG-PR 138)	5.4	6.3	6.4	6.0	GO-G37	3.9	5.9	6.5	5.4
PROVOST (PPG-PR 143)	6.0	5.9	6.3	6.0	EXCELLENCE (ISG-31)	3.9	6.1	6.3	5.4
THRIVE (IS-PR 469)	5.3	6.8	5.9	6.0	RAINWATER (PST-2TQL)	3.9	6.0	6.4	5.4
APPLE SGL (PPG-PR 140)	5.3	6.4	6.2	6.0	PIZZAZZ 2 GLR (PR 909)	3.9	6.5	5.9	5.4
PST-2NJK	5.3	5.9	6.7	6.0	ASP 0112 (A-35)	4.7	5.7	5.8	5.4
SIDEWAYS (PSRX-S84)	5.2	5.9	6.8	6.0	BAR LP 10969	4.1	5.8	6.2	5.3
RIO VISTA	5.2	6.6	6.0	5.9	FIESTA 4	3.6	6.3	6.1	5.3
APR 2445	5.2	6.0	6.5	5.9	DLF LGD-3022	4.9	5.2	5.9	5.3
CS-PR66	4.6	6.8	6.3	5.9	SOX FAN (GM3)	4.2	5.9	5.9	5.3
HAVEN (APR 2038)	5.2	5.7	6.7	5.9	LTP-RAE	4.3	5.8	5.8	5.3
PREMIUM (PPG-PR 137)	5.1	5.8	6.6	5.8	DLF LGT 4182	3.0	6.4	6.2	5.2
STAMINA (IS-PR 487)	5.5	6.0	6.0	5.8	BANDALORE (IS-PR 463)	4.2	5.8	5.7	5.2
PSRX-4CAGL	5.1	6.9	5.5	5.8	BAR LP 10972	3.7	5.7	6.1	5.2
PALMER V	5.0	6.1	6.4	5.8	SEDUCTIVE (ISG-30)	3.1	6.2	6.1	5.2
PPG-PR 128	5.1	6.0	6.4	5.8	VINTAGE (ISG-36)	4.3	5.3	5.8	5.1
PILLAR (CST)	5.2	6.0	6.1	5.8	RIPTIDE (IS-PR 409)	3.7	5.8	6.0	5.1
SUNSTREAKER (APR 2036)	4.9	6.1	6.4	5.8	PROMINENT (CS-20)	4.0	5.7	5.7	5.1
PISTOL (PST-2ACR)	5.0	5.8	6.5	5.8	RINOVO	3.4	5.4	6.1	5.0
SALINAS II (PST-204D)	4.4	6.3	6.6	5.8	ALLANTE	3.4	5.4	6.0	5.0
UNO	5.4	5.4	6.5	5.8	DLF LGD-3026	3.9	5.0	6.0	5.0
BANFIELD (IS-PR 491)	5.3	6.1	5.8	5.7	GO-DHS	2.6	5.7	6.4	4.9
PACIFIC GEM (PST-2MG7)	5.1	5.7	6.4	5.7	APR 2320	3.2	5.8	5.6	4.9
ASPIRE (IS-PR 489)	5.1	6.5	5.6	5.7	SIENNA	2.8	5.9	5.4	4.7
LTP-PR 135	5.3	5.4	6.5	5.7	MACH I	3.1	5.5	5.3	4.7
OCTANE	4.9	6.1	6.1	5.7	INSIGHT	3.1	5.5	5.3	4.6
PST-2DR9	5.0	5.5	6.6	5.7	BAR LP 7608	2.3	5.3	6.2	4.6
PPG-PR 142	5.5	5.5	6.0	5.7	PINNACLE	2.9	4.5	5.6	4.3
BONNEVILLE	4.6	6.4	5.9	5.6	LINN	2.7	2.3	3.4	2.8
DOMINATOR (PST-2AG4)	3.9	6.1	6.9	5.6					
BAR LP 10970	4.9	5.4	6.6	5.6	LSD VALUE	1.3	0.9	1.0	0.6
					C.V. (%)	17.6	9.5	9.8	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 6.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THREE LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL1	NE1	MEAN	NAME	IA1	IL1	NE1	MEAN
SR 4650 (PSRX-3701)	6.4	6.7	5.2	6.1	PILLAR (CST)	6.5	5.2	3.5	5.1
CL 11601 (VISION)	6.4	6.8	4.3	5.9	METOLIUS (PPG-PR 165)	6.0	5.8	3.4	5.1
PANGEA GLR (CL 11701)	6.9	7.0	3.6	5.8	ASPIRE (IS-PR 489)	5.5	6.2	3.4	5.0
THRIVE (IS-PR 469)	5.8	6.2	5.4	5.8	HAVEN (APR 2038)	4.9	5.9	4.2	5.0
KARMA (PICK 10401)	6.9	5.8	4.5	5.7	RIO VISTA	5.6	5.5	3.9	5.0
PREMIUM (PPG-PR 137)	6.5	6.1	4.5	5.7	PEPPER (RAD-PR62)	5.6	6.5	3.0	5.0
JR-192	5.6	6.4	5.1	5.7	BONNEVILLE	5.9	5.4	3.7	5.0
APPLE SGL (PPG-PR 140)	6.3	5.4	5.3	5.7	DILIGENT (IS-PR 492)	5.4	6.4	3.1	5.0
GRAND SLAM GLD (PPG-PR 164)	6.4	6.6	4.0	5.7	GO-DHS	4.6	5.3	5.0	5.0
HANCOCK (IS-PR 479)	5.1	7.1	4.7	5.6	PROMINENT (CS-20)	5.2	5.1	4.6	5.0
STAMINA (IS-PR 487)	6.6	6.5	3.8	5.6	ALLANTE	4.9	5.7	4.2	4.9
MANHATTAN 6 GLR (PST-2MAGS)	6.0	6.0	4.8	5.6	CS-PR66	4.8	6.7	3.3	4.9
EVOLUTION (S85)	6.8	6.1	3.8	5.6	APR 2445	4.9	6.1	3.7	4.9
RINOVO	4.7	6.6	5.4	5.6	AMAZING A+ (PPG-PR 138)	5.7	5.6	3.4	4.9
PST-2NJK	5.7	6.1	4.8	5.5	SALINAS II (PST-204D)	5.3	6.0	3.4	4.9
SR4660ST (SRX-4MSH)	6.0	6.2	4.3	5.5	SOX FAN (GM3)	5.3	5.5	3.9	4.9
GREEN SUPREME(PPG-PR 121)	6.1	6.2	4.1	5.5	PRX-4GM1	5.2	5.5	4.0	4.9
PIZZAZZ 2 GLR (PR 909)	6.3	6.4	3.6	5.4	FASTBALL RGL (PPG-PR 133)	5.6	6.0	2.9	4.9
PST-2K9	5.1	6.8	4.5	5.4	PPG-PR 136	6.1	5.4	3.0	4.8
SIDEWAYS (PSRX-S84)	6.7	5.9	3.6	5.4	PSRX-4CAGL	4.4	6.0	4.1	4.8
STELLAR 3GL (PPG-PR 134)	6.2	6.4	3.5	5.4	RAD-PR55R	5.1	6.0	3.4	4.8
LTP-RAE	6.2	5.7	4.2	5.4	PLAYOFF 2 (P02)	4.7	5.9	3.8	4.8
BANFIELD (IS-PR 491)	6.2	6.0	3.9	5.4	FIESTA 4	5.0	5.5	3.8	4.8
BANDALORE (IS-PR 463)	6.2	5.9	4.0	5.3	PST-2DR9	5.4	5.4	3.3	4.7
PALMER V	5.3	6.7	4.0	5.3	DLF LGD-3026	4.6	5.0	4.7	4.7
PPG-PR 128	5.3	5.0	5.4	5.2	RAINWATER (PST-2TQL)	5.4	5.7	3.0	4.7
LTP-PR 135	6.4	6.1	3.1	5.2	GO-G37	5.0	5.3	3.7	4.7
INSIGHT	4.7	6.2	4.8	5.2	BRIGHTSTAR SLT	4.7	5.8	3.4	4.6
EXPEDITE (CL 307)	6.2	6.2	3.2	5.2	DLF LGT 4182	4.9	4.7	4.2	4.6
PST-2NKM	5.7	6.4	3.5	5.2	RIPTIDE (IS-PR 409)	5.1	6.0	2.5	4.5
PISTOL (PST-2ACR)	5.7	6.2	3.7	5.2	PROVOST (PPG-PR 143)	5.3	5.9	2.4	4.5
VINTAGE (ISG-36)	4.6	5.5	5.4	5.2	SIENNA	4.4	5.7	3.4	4.5
SEDUCTIVE (ISG-30)	4.9	4.9	5.8	5.2	PICK 4DFHM	4.4	5.2	3.8	4.5
PACIFIC GEM (PST-2MG7)	5.9	5.9	3.7	5.2	MONSIEUR (IS-PR 488)	4.4	5.8	3.2	4.5
GO-PR60	5.8	5.9	3.8	5.2	BAR LP 7608	4.8	5.3	3.3	4.5
PPG-PR 142	6.2	5.6	3.7	5.2	EXCELLENCE (ISG-31)	4.6	5.5	3.3	4.5
WICKED (SRX-4RHD)	5.7	6.6	3.1	5.2	ASP 0112 (A-35)	5.2	5.3	2.9	4.5
BAR LP 10970	4.7	5.7	5.0	5.1	PINNACLE	4.7	5.8	2.9	4.4
BENCHMARK (PST-2BNS)	5.7	5.9	3.8	5.1	BAR LP 10969	4.9	5.4	3.0	4.4
SUNSTREAKER (APR 2036)	5.2	6.7	3.5	5.1	MACH I	4.4	5.2	3.5	4.4
JR-178	6.2	6.0	3.2	5.1	DLF LGD-3022	5.0	4.9	3.2	4.3
DOMINATOR (PST-2AG4)	6.0	5.9	3.5	5.1	BAR LP 10972	4.6	5.3	3.0	4.3
APR 2320	5.9	6.3	3.1	5.1	LINN	3.6	2.6	3.2	3.1
UNO	5.2	5.8	4.3	5.1					
OCTANE	6.5	4.7	4.1	5.1	LSD VALUE	1.1	0.9	1.1	0.6
					C.V. (%)	12.3	9.6	18.0	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.

TABLE 7. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/ 2014 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BANDALORE (IS-PR 463)	5.3	6.3	6.7	6.3	7.0	7.0	7.3	7.7	7.7	7.0	5.0	4.3	6.5
GO-PR60	6.0	6.7	6.7	6.0	7.0	7.0	7.0	7.7	7.7	6.7	5.0	4.3	6.5
ASP 0112 (A-35)	6.3	6.7	7.0	6.7	7.0	7.0	7.0	7.0	7.0	6.7	4.7	4.7	6.5
FIESTA 4	6.0	6.3	7.0	6.3	6.7	6.7	7.0	8.0	7.3	6.3	5.0	4.7	6.4
GRAND SLAM GLD (PPG-PR 164)	6.0	6.7	7.0	6.0	7.0	7.0	7.0	7.3	7.3	7.0	4.7	4.0	6.4
JR-178	5.7	6.3	6.7	6.0	7.0	7.0	7.0	7.3	7.3	6.7	5.3	4.7	6.4
SR 4650 (PSRX-3701)	5.7	6.7	6.7	6.0	6.7	6.7	7.0	7.7	7.3	6.3	5.0	5.0	6.4
MONSIEUR (IS-PR 488)	6.3	6.7	7.0	6.0	6.7	6.7	7.0	7.0	7.0	6.7	5.0	4.7	6.4
THRIVE (IS-PR 469)	5.7	6.3	7.0	6.7	6.3	6.3	7.0	7.7	7.3	6.3	5.0	5.0	6.4
ASPIRE (IS-PR 489)	6.0	6.3	7.0	6.7	7.0	7.0	7.0	7.3	7.3	6.3	4.7	3.7	6.4
VINTAGE (ISG-36)	6.0	6.7	7.0	6.7	6.3	6.3	7.3	7.3	7.0	6.3	5.0	4.3	6.4
EVOLUTION (S85)	5.7	6.3	7.0	6.0	6.7	6.7	7.0	7.3	7.0	6.3	5.3	4.7	6.3
HANCOCK (IS-PR 479)	5.7	6.3	7.0	6.3	6.7	6.7	7.0	7.3	7.3	6.7	4.7	4.3	6.3
PROMINENT (CS-20)	5.7	6.7	6.3	6.7	7.0	7.0	7.0	7.0	7.0	7.0	4.3	4.3	6.3
SEDUCTIVE (ISG-30)	6.0	7.0	6.3	6.7	6.7	6.7	6.7	7.3	7.3	7.0	4.0	4.3	6.3
WICKED (SRX-4RHD)	5.7	6.0	7.0	6.0	7.0	7.0	7.0	7.3	7.3	6.7	5.0	4.0	6.3
BENCHMARK (PST-2BNS)	5.7	6.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0	6.0	5.0	4.7	6.3
PANGEA GLR (CL 11701)	5.7	6.0	6.7	6.3	7.0	7.0	7.0	7.7	7.3	6.3	4.3	4.3	6.3
RINOVO	5.3	6.3	6.7	6.0	6.3	6.3	7.3	7.7	7.3	6.7	5.0	4.7	6.3
RIO VISTA	5.7	6.3	6.3	6.0	7.0	7.0	7.0	7.3	7.3	6.3	5.0	4.3	6.3
PIZZAZZ 2 GLR (PR 909)	5.7	6.0	7.0	6.0	7.0	7.0	7.0	7.3	7.3	6.7	4.7	4.0	6.3
PALMER V	5.7	6.7	6.3	6.0	7.0	7.0	7.3	7.3	7.0	6.0	5.0	4.0	6.3
APR 2445	6.0	6.7	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.3	5.0	5.0	6.3
RIPTIDE (IS-PR 409)	5.3	6.3	6.0	6.3	7.0	7.0	7.3	7.3	7.3	6.3	5.0	4.0	6.3
AMAZING A+ (PPG-PR 138)	6.0	6.0	6.7	6.3	6.7	6.7	7.0	7.0	7.0	6.3	4.7	4.3	6.2
DLF LGT 4182	5.7	7.0	6.3	6.0	6.7	6.7	7.0	7.3	7.3	6.3	4.3	4.0	6.2
MANHATTAN 6 GLR (PST-2MAGS)	5.7	6.7	6.7	6.0	6.7	6.7	7.0	7.3	7.0	6.0	5.0	4.0	6.2
PSRX-4CAGL	5.7	6.3	6.7	6.3	6.3	6.3	7.0	7.3	7.0	6.0	5.0	4.7	6.2
EXCELLENCE (ISG-31)	5.7	7.0	6.0	6.0	6.7	6.7	7.0	7.3	7.0	6.3	4.3	4.7	6.2
GREEN SUPREME(PPG-PR 121)	5.7	6.3	6.3	6.0	6.7	6.7	7.3	7.0	7.0	7.0	4.7	3.7	6.2
KARMA (PICK 10401)	5.7	6.7	6.7	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.7	4.3	6.2
LTP-PR 135	5.7	6.0	6.0	6.0	7.0	7.0	7.0	7.3	7.3	6.3	4.3	4.3	6.2
SOX FAN (GM3)	5.7	6.0	6.7	6.0	6.7	6.7	7.7	7.0	7.0	6.0	5.0	4.0	6.2
BANFIELD (IS-PR 491)	5.7	6.7	6.7	6.3	6.3	6.3	7.0	7.3	7.0	6.3	4.3	4.0	6.2
STAMINA (IS-PR 487)	5.3	6.0	6.3	6.0	6.7	6.7	7.0	7.3	7.3	6.3	5.0	4.0	6.2
PPG-PR 128	5.7	6.3	7.0	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.7	3.7	6.1
STELLAR 3GL (PPG-PR 134)	5.0	6.3	6.7	6.0	6.7	6.7	7.0	7.0	7.0	6.0	5.0	4.3	6.1
GO-G37	5.7	6.3	6.7	6.3	6.3	6.3	7.0	7.0	7.0	6.3	4.7	4.0	6.1
PPG-PR 136	5.3	6.7	6.3	6.0	6.3	6.3	7.0	7.0	7.0	6.0	5.0	4.7	6.1
PRX-4GM1	5.3	6.0	6.3	6.0	6.7	6.7	7.0	7.0	7.0	6.0	5.0	4.3	6.1
BONNEVILLE	5.7	6.0	6.3	6.0	6.3	6.3	7.0	7.0	7.0	6.7	4.7	4.3	6.1
DILIGENT (IS-PR 492)	5.7	6.3	7.0	6.0	6.0	6.0	7.0	7.0	7.0	6.0	5.0	4.3	6.1
EXPEDITE (CL 307)	5.3	6.3	6.0	6.0	7.0	7.0	7.0	6.7	6.7	6.3	5.0	4.0	6.1
FASTBALL RGL (PPG-PR 133)	5.7	6.3	7.0	6.0	6.7	6.7	7.0	6.7	6.7	6.0	4.7	4.0	6.1
PACIFIC GEM (PST-2MG7)	5.3	6.7	6.0	6.0	6.7	6.7	7.0	7.3	7.0	6.3	4.3	4.0	6.1
SUNSTREAKER (APR 2036)	5.7	6.3	6.0	6.0	6.3	6.3	7.0	7.3	7.0	6.0	5.0	4.3	6.1

TABLE 7. (CONT'D)

TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
2014 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
CS-PR66	5.7	6.0	6.3	6.3	6.3	6.3	7.0	7.0	7.0	6.0	4.3	4.7	6.1
OCTANE	5.3	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.3	4.7	3.7	6.1
PEPPER (RAD-PR62)	5.3	6.3	6.0	6.3	7.0	7.0	7.0	7.0	6.7	5.7	4.3	4.3	6.1
PPG-PR 142	5.0	6.3	6.7	6.0	6.3	6.3	7.0	7.3	7.0	6.0	4.7	4.3	6.1
UNO	5.3	6.7	6.3	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.7	3.7	6.1
RAD-PR55R	5.7	6.0	6.7	6.0	6.0	6.0	7.0	7.0	7.0	6.7	4.7	4.0	6.1
PISTOL (PST-2ACR)	5.0	6.0	6.3	6.0	6.7	6.7	6.7	7.0	7.0	6.0	5.0	4.3	6.1
PREMIUM (PPG-PR 137)	5.0	6.0	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.0	5.0	4.3	6.1
PROVOST (PPG-PR 143)	5.3	6.3	6.7	6.0	6.7	6.7	7.0	6.7	7.0	6.3	4.3	3.7	6.1
CL 11601 (VISION)	5.3	6.3	6.3	6.0	6.3	6.3	7.3	7.0	7.0	6.0	4.7	3.7	6.0
JR-192	5.0	6.3	6.0	6.3	7.0	7.0	7.0	7.0	6.7	5.7	4.3	4.0	6.0
LTP-RAE	5.3	6.0	6.3	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.7	3.7	6.0
SIDEWAYS (PSRX-S84)	5.0	6.0	6.3	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.7	4.0	6.0
DOMINATOR (PST-2AG4)	5.0	6.3	6.3	6.0	6.0	6.0	7.0	7.0	7.0	6.3	5.0	4.0	6.0
MACH I	5.0	6.0	6.7	6.0	6.3	6.3	6.7	6.7	6.7	6.0	5.0	4.3	6.0
PICK 4DFHM	5.0	6.0	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.7	3.7	6.0
BAR LP 10969	5.0	5.7	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	5.0	4.0	5.9
DLF LGD-3022	5.3	6.3	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	4.3	3.7	5.9
GO-DHS	5.0	6.0	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.7	4.3	3.7	5.9
PST-2DR9	5.7	6.3	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.3	4.0	3.3	5.9
APR 2320	5.0	6.3	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.0	3.7	5.9
HAVEN (APR 2038)	5.0	6.3	6.0	6.0	6.7	6.7	7.0	7.0	7.0	6.0	4.0	3.7	5.9
METOLIUS (PPG-PR 165)	5.0	6.0	6.3	5.7	6.3	6.3	7.0	7.0	7.0	6.0	4.7	4.0	5.9
PST-2K9	5.0	6.0	6.0	6.0	6.3	6.3	7.0	7.3	7.0	6.0	4.3	4.0	5.9
APPLE SGL (PPG-PR 140)	5.0	6.0	6.0	6.0	6.7	6.7	7.0	6.7	6.7	6.0	4.7	3.7	5.9
PST-2NJK	5.3	6.3	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	4.0	3.7	5.9
SIENNA	5.0	6.0	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.3	4.0	4.0	5.9
INSIGHT	5.0	5.7	6.3	6.0	6.7	6.7	7.0	7.0	6.7	5.7	4.3	3.7	5.9
PILLAR (CST)	5.3	5.7	6.0	6.0	6.0	6.0	6.7	7.0	7.0	6.3	4.7	4.0	5.9
SR4660ST (SRX-4MSH)	4.7	6.0	6.0	6.0	6.7	6.7	7.0	6.7	6.7	6.0	4.3	4.0	5.9
ALLANTE	5.0	6.0	6.0	6.0	6.7	6.7	7.0	7.0	6.7	5.7	4.0	3.7	5.9
BAR LP 10972	5.0	6.0	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	4.3	3.3	5.9
PST-2NKM	4.7	6.0	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	4.3	3.3	5.8
BAR LP 10970	5.0	6.3	6.0	6.0	6.3	6.3	6.7	6.3	6.3	6.0	4.3	4.0	5.8
BRIGHTSTAR SLT	4.7	6.3	6.0	5.3	6.3	6.3	7.0	7.0	7.0	6.0	4.3	3.3	5.8
RAINWATER (PST-2TQL)	5.0	5.7	6.0	6.0	6.3	6.3	7.0	6.7	6.7	6.0	4.3	3.7	5.8
BAR LP 7608	5.0	6.3	6.0	5.7	6.7	6.7	6.7	7.0	6.3	5.3	4.0	4.0	5.8
DLF LGD-3026	5.0	6.3	6.0	6.3	6.0	6.0	7.0	7.0	7.0	6.0	3.7	3.0	5.8
PLAYOFF 2 (P02)	5.0	6.0	6.3	6.0	6.0	6.0	7.0	6.3	6.7	6.0	4.0	4.0	5.8
SALINAS II (PST-204D)	5.3	6.0	6.0	6.0	5.7	5.7	6.7	7.0	7.0	6.3	4.0	3.3	5.8
PINNACLE	5.0	5.7	5.7	5.0	6.0	6.0	7.0	6.7	6.3	5.3	4.0	3.0	5.5
LINN	4.3	5.0	4.7	3.7	6.3	6.3	6.3	6.7	6.7	6.0	4.0	3.0	5.3
LSD VALUE	0.8	0.8	0.6	0.5	0.8	0.8	0.4	0.6	0.6	0.7	0.7	0.8	0.3
C.V. (%)	8.8	7.5	6.2	5.0	7.4	7.4	3.5	5.7	5.1	6.9	9.4	12.7	2.8

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

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

TABLE 8. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/						
NAME	IL1	MO1	NE1	NJ2	OR1	MEAN
ASP 0112 (A-35)	7.3	7.7	6.7	8.7	7.7	7.6
VINTAGE (ISG-36)	7.3	7.0	7.0	8.7	8.0	7.6
SEDUCTIVE (ISG-30)	7.0	6.7	6.3	8.3	8.3	7.3
HANCOCK (IS-PR 479)	6.7	6.7	7.0	8.0	8.0	7.3
PROMINENT (CS-20)	7.0	6.0	7.0	8.3	8.0	7.3
GO-G37	7.0	6.3	7.0	7.7	8.0	7.2
GO-PR60	7.3	6.3	6.0	8.3	8.0	7.2
EXCELLENCE (ISG-31)	7.0	6.3	6.7	7.7	8.0	7.1
THRIVE (IS-PR 469)	7.0	6.7	6.3	7.7	8.0	7.1
GO-DHS	7.3	7.3	7.0	6.7	7.3	7.1
FIESTA 4	6.7	5.7	6.3	8.3	8.0	7.0
DLF LGT 4182	7.0	6.3	6.7	7.0	7.3	6.9
PANGEA GLR (CL 11701)	6.7	5.3	6.3	8.0	8.0	6.9
EVOLUTION (S85)	6.0	6.0	6.7	7.7	7.7	6.8
MACH I	6.7	5.7	7.0	7.7	7.0	6.8
PSRX-4CAGL	6.7	6.0	7.0	6.7	7.7	6.8
ASPIRE (IS-PR 489)	6.0	5.7	7.0	7.3	7.3	6.7
GRAND SLAM GLD (PPG-PR 164)	6.3	5.7	7.0	7.0	7.3	6.7
PALMER V	6.3	5.0	6.7	7.7	7.7	6.7
RIPTIDE (IS-PR 409)	6.3	6.0	7.0	6.7	7.3	6.7
STELLAR 3GL (PPG-PR 134)	6.0	5.0	7.0	8.0	7.3	6.7
PPG-PR 136	6.3	5.3	7.0	7.3	7.3	6.7
CS-PR66	6.0	6.3	6.0	7.0	7.7	6.6
MANHATTAN 6 GLR (PST-2MAGS)	6.3	5.3	6.7	7.3	7.3	6.6
PACIFIC GEM (PST-2MG7)	6.0	5.3	6.7	7.3	7.7	6.6
RINOVO	6.0	5.3	6.0	7.7	8.0	6.6
AMAZING A+ (PPG-PR 138)	6.3	5.0	6.7	7.3	7.3	6.5
BANDALORE (IS-PR 463)	6.0	6.3	6.0	6.3	8.0	6.5
EXPEDITE (CL 307)	6.3	5.3	6.7	7.3	7.0	6.5
JR-178	6.0	5.3	7.0	6.7	7.7	6.5
PEPPER (RAD-PR62)	6.0	6.0	6.0	7.3	7.3	6.5
PIZZAZZ 2 GLR (PR 909)	6.3	5.0	6.7	7.0	7.7	6.5
RAD-PR55R	6.0	5.7	6.3	7.3	7.3	6.5
DILIGENT (IS-PR 492)	6.7	5.7	6.7	6.0	7.3	6.5
KARMA (PICK 10401)	6.3	5.3	6.7	6.7	7.3	6.5
RIO VISTA	6.0	5.0	6.7	7.3	7.3	6.5
SIDEWAYS (PSRX-S84)	6.0	4.7	6.7	7.7	7.3	6.5
SR 4650 (PSRX-3701)	6.0	5.0	6.7	7.0	7.7	6.5
FASTBALL RGL (PPG-PR 133)	6.0	5.3	7.0	6.7	7.0	6.4
LTP-RAE	6.0	5.3	6.7	7.0	7.0	6.4
OCTANE	5.7	6.0	6.7	6.3	7.3	6.4
BANFIELD (IS-PR 491)	6.0	5.3	7.0	6.3	7.3	6.4
PST-2K9	6.0	5.3	7.0	6.3	7.3	6.4
APR 2445	6.0	5.0	6.0	6.7	8.0	6.3
PLAYOFF 2 (P02)	7.0	4.7	7.0	6.0	7.0	6.3

TABLE 8. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2014 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/						
NAME	IL1	MO1	NE1	NJ2	OR1	MEAN
PROVOST (PPG-PR 143)	6.0	5.0	6.7	6.7	7.3	6.3
DOMINATOR (PST-2AG4)	6.3	5.0	6.7	6.3	7.3	6.3
PREMIUM (PPG-PR 137)	6.0	5.3	7.0	6.0	7.3	6.3
APR 2320	6.3	4.7	6.7	6.7	7.0	6.3
GREEN SUPREME (PPG-PR 121)	6.0	5.0	6.7	6.0	7.7	6.3
PILLAR (CST)	6.0	5.7	6.7	5.7	7.3	6.3
SOX FAN (GM3)	6.0	5.0	6.0	6.7	7.7	6.3
JR-192	6.0	5.3	7.0	6.0	7.0	6.3
LTP-PR 135	6.3	4.7	7.0	6.0	7.3	6.3
METOLIUS (PPG-PR 165)	6.0	5.0	6.3	6.3	7.7	6.3
PPG-PR 128	5.7	5.3	7.0	6.0	7.3	6.3
PRX-4GM1	6.3	4.7	6.0	7.3	7.0	6.3
WICKED (SRX-4RHD)	6.3	5.3	6.7	5.3	7.7	6.3
DLF LGD-3026	6.0	4.7	7.0	6.3	7.0	6.2
PST-2DR9	6.3	5.0	6.7	5.7	7.3	6.2
SUNSTREAKER (APR 2036)	6.3	5.7	5.3	6.0	7.7	6.2
UNO	6.3	4.7	6.3	6.0	7.7	6.2
BONNEVILLE	5.7	4.7	6.3	7.0	7.0	6.1
CL 11601 (VISION)	6.7	5.0	6.0	6.0	7.0	6.1
PISTOL (PST-2ACR)	6.0	4.7	6.7	6.0	7.3	6.1
RAINWATER (PST-2TQL)	6.0	5.7	6.7	5.0	7.3	6.1
PST-2NJK	6.3	4.7	6.3	6.3	7.0	6.1
PICK 4DFHM	6.3	5.3	6.0	5.7	7.0	6.1
PPG-PR 142	6.0	4.3	7.0	5.7	7.3	6.1
SIENNA	6.3	5.0	6.0	5.7	7.0	6.0
SR4660ST (SRX-4MSH)	6.0	4.7	7.0	5.3	7.0	6.0
STAMINA (IS-PR 487)	6.0	5.0	6.0	5.3	7.7	6.0
MONSIEUR (IS-PR 488)	6.3	4.7	6.3	5.3	7.3	6.0
APPLE SGL (PPG-PR 140)	6.0	5.0	6.7	5.0	7.0	5.9
HAVEN (APR 2038)	6.0	5.3	6.7	4.7	7.0	5.9
ALLANTE	6.0	4.3	6.7	5.7	6.7	5.9
BAR LP 10970	5.7	4.3	6.7	5.7	7.0	5.9
BRIGHTSTAR SLT	6.0	5.0	6.3	5.0	7.0	5.9
PST-2NKM	5.7	4.7	6.0	5.3	7.3	5.8
BAR LP 10972	6.0	4.3	6.7	4.7	7.0	5.7
BENCHMARK (PST-2BNS)	6.0	4.7	7.0	3.7	7.3	5.7
INSIGHT	5.7	4.7	6.0	5.0	7.0	5.7
DLF LGD-3022	5.3	4.0	7.0	5.0	7.0	5.7
SALINAS II (PST-204D)	5.3	4.7	6.0	4.3	7.0	5.5
BAR LP 10969	5.7	4.7	6.3	3.3	7.0	5.4
BAR LP 7608	5.3	5.0	6.0	3.0	6.7	5.2
PINNACLE	5.0	4.0	6.0	2.0	6.7	4.7
LINN	2.0	3.0	6.3	1.0	6.3	3.7
LSD VALUE	0.8	1.1	0.8	1.5	0.8	0.5
C.V. (%)	7.9	13.5	7.6	14.8	6.4	10.2

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

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

TABLE 9.

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

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

NAME	IA1	IL1	NE1	MEAN	NAME	IA1	IL1	NE1	MEAN
CL 11601 (VISION)	6.3	7.3	3.7	5.8	RIPTIDE (IS-PR 409)	6.0	6.3	1.0	4.4
SEDUCTIVE (ISG-30)	6.0	7.0	4.3	5.8	PST-2NKM	5.0	5.7	2.3	4.3
GO-DHS	6.7	6.3	4.0	5.7	ASPIRE (IS-PR 489)	4.7	5.3	3.0	4.3
VINTAGE (ISG-36)	6.7	6.7	3.7	5.7	GO-PR60	5.0	6.0	2.0	4.3
HANCOCK (IS-PR 479)	5.7	6.7	4.0	5.4	JR-178	5.0	6.0	2.0	4.3
PANGEA GLR (CL 11701)	7.0	6.3	2.7	5.3	PSRX-4CAGL	4.3	6.0	2.7	4.3
PREMIUM (PPG-PR 137)	6.0	6.3	3.7	5.3	RAINWATER (PST-2TQL)	4.7	5.7	2.7	4.3
SR 4650 (PSRX-3701)	6.3	6.3	3.3	5.3	SIDEWAYS (PSRX-S84)	5.7	5.7	1.7	4.3
JR-192	6.3	6.3	3.0	5.2	BONNEVILLE	5.0	5.3	2.3	4.2
BENCHMARK (PST-2BNS)	6.0	6.7	2.7	5.1	EVOLUTION (S85)	4.7	6.0	2.0	4.2
PPG-PR 128	5.3	6.3	3.7	5.1	FASTBALL RGL (PPG-PR 133)	4.7	6.3	1.7	4.2
ASP 0112 (A-35)	6.7	7.0	1.3	5.0	HAVEN (APR 2038)	4.7	5.0	3.0	4.2
LTP-RAE	5.7	6.0	3.3	5.0	INSIGHT	4.3	5.3	3.0	4.2
BANFIELD (IS-PR 491)	5.7	6.3	3.0	5.0	METOLIUS (PPG-PR 165)	5.0	6.0	1.7	4.2
BAR LP 10970	5.3	5.3	4.3	5.0	OCTANE	5.3	4.7	2.7	4.2
PRX-4GM1	5.3	6.0	3.7	5.0	PILLAR (CST)	5.3	5.7	1.7	4.2
PIZZAZZ 2 GLR (PR 909)	5.0	6.7	3.0	4.9	PPG-PR 142	5.3	5.0	2.3	4.2
PST-2NJK	5.7	5.7	3.3	4.9	RAD-PR55R	4.0	6.0	2.7	4.2
RINOVO	5.0	6.7	3.0	4.9	STELLAR 3GL (PPG-PR 134)	5.0	6.0	1.7	4.2
APR 2320	6.0	7.0	1.7	4.9	BRIGHTSTAR SLT	4.7	5.7	2.0	4.1
BANDALORE (IS-PR 463)	5.3	6.7	2.7	4.9	CS-PR66	4.7	6.0	1.7	4.1
EXCELLENCE (ISG-31)	6.0	7.0	1.7	4.9	DLF LGT 4182	5.7	4.0	2.7	4.1
MANHATTAN 6 GLR (PST-2MAGS)	5.0	6.3	3.3	4.9	BAR LP 10969	5.3	6.0	1.0	4.1
SOX FAN (GM3)	6.3	6.0	2.3	4.9	EXPEDITE (CL 307)	4.7	6.0	1.3	4.0
STAMINA (IS-PR 487)	5.7	6.3	2.7	4.9	PPG-PR 136	5.7	5.0	1.3	4.0
SUNSTREAKER (APR 2036)	6.0	7.0	1.7	4.9	PST-2DR9	4.7	5.3	2.0	4.0
APPLE SGL (PPG-PR 140)	5.3	6.0	3.0	4.8	SALINAS II (PST-204D)	5.3	4.7	2.0	4.0
APR 2445	5.0	7.3	2.0	4.8	SR4660ST (SRX-4MSH)	4.3	5.3	2.3	4.0
GO-G37	6.0	6.0	2.3	4.8	AMAZING A+ (PPG-PR 138)	4.3	6.0	1.7	4.0
GRAND SLAM GLD (PPG-PR 164)	5.3	6.7	2.3	4.8	DILIGENT (IS-PR 492)	4.3	6.0	1.7	4.0
PICK 4DFHM	5.3	6.3	2.7	4.8	DLF LGD-3022	5.0	5.7	1.0	3.9
DOMINATOR (PST-2AG4)	6.0	5.7	2.3	4.7	DLF LGD-3026	4.0	4.7	3.0	3.9
MACH I	5.7	5.7	2.7	4.7	PEPPER (RAD-PR62)	5.0	5.7	1.0	3.9
PROMINENT (CS-20)	5.0	6.0	3.0	4.7	PINNACLE	5.0	5.3	1.3	3.9
WICKED (SRX-4RHD)	6.0	6.7	1.3	4.7	BAR LP 7608	5.3	4.7	1.3	3.8
KARMA (PICK 10401)	5.3	5.0	3.7	4.7	LTP-PR 135	5.0	4.7	1.7	3.8
RIO VISTA	5.0	6.3	2.7	4.7	PLAYOFF 2 (P02)	4.3	5.7	1.3	3.8
THRIVE (IS-PR 469)	4.3	6.0	3.7	4.7	PROVOST (PPG-PR 143)	5.0	5.3	1.0	3.8
UNO	5.3	6.0	2.7	4.7	ALLANTE	3.7	4.7	2.7	3.7
FIESTA 4	5.3	6.0	2.3	4.6	BAR LP 10972	4.7	4.3	2.0	3.7
GREEN SUPREME (PPG-PR 121)	5.3	6.3	2.0	4.6	MONSIEUR (IS-PR 488)	3.7	5.7	1.3	3.6
PACIFIC GEM (PST-2MG7)	5.3	5.3	3.0	4.6	SIENNA	3.3	5.3	1.3	3.3
PALMER V	5.3	6.0	2.3	4.6	LINN	3.0	2.7	2.0	2.6
PISTOL (PST-2ACR)	5.0	6.0	2.3	4.4					
PST-2K9	4.3	6.0	3.0	4.4	LSD VALUE	1.7	1.5	1.5	0.9
					C.V. (%)	20.0	15.6	38.8	21.5

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

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

TABLE 10. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

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

NAME	M01	NAME	M01
APR 2320	6.7	EVOLUTION (S85)	6.0
BANFIELD (IS-PR 491)	6.7	EXPEDITE (CL 307)	6.0
CL 11601 (VISION)	6.7	FASTBALL RGL (PPG-PR 133)	6.0
GRAND SLAM GLD (PPG-PR 164)	6.7	GO-G37	6.0
GREEN SUPREME (PPG-PR 121)	6.7	GO-PR60	6.0
HANCOCK (IS-PR 479)	6.7	HAVEN (APR 2038)	6.0
INSIGHT	6.7	KARMA (PICK 10401)	6.0
LTP-RAE	6.7	LTP-PR 135	6.0
PICK 4DFHM	6.7	METOLIUS (PPG-PR 165)	6.0
RAINWATER (PST-2TQL)	6.7	MONSIEUR (IS-PR 488)	6.0
SIENNA	6.7	OCTANE	6.0
ALLANTE	6.3	PEPPER (RAD-PR62)	6.0
AMAZING A+ (PPG-PR 138)	6.3	PISTOL (PST-2ACR)	6.0
APR 2445	6.3	PLAYOFF 2 (P02)	6.0
ASP 0112 (A-35)	6.3	PPG-PR 142	6.0
BAR LP 7608	6.3	PREMIUM (PPG-PR 137)	6.0
BENCHMARK (PST-2BNS)	6.3	PROVOST (PPG-PR 143)	6.0
BONNEVILLE	6.3	PRX-4GM1	6.0
BRIGHTSTAR SLT	6.3	PST-2K9	6.0
DILIGENT (IS-PR 492)	6.3	PST-2NKM	6.0
DLF LGD-3022	6.3	RIO VISTA	6.0
EXCELLENCE (ISG-31)	6.3	SALINAS II (PST-204D)	6.0
FIESTA 4	6.3	SIDEWAYS (PSRX-S84)	6.0
GO-DHS	6.3	SR 4650 (PSRX-3701)	6.0
JR-178	6.3	THRIVE (IS-PR 469)	6.0
JR-192	6.3	VINTAGE (ISG-36)	6.0
MACH I	6.3	WICKED (SRX-4RHD)	6.0
PACIFIC GEM (PST-2MG7)	6.3	DLF LGD-3026	5.7
PIZZAZZ 2 GLR (PR 909)	6.3	MANHATTAN 6 GLR (PST-2MAGS)	5.7
PPG-PR 136	6.3	PALMER V	5.7
PST-2DR9	6.3	PANGEA GLR (CL 11701)	5.7
RAD-PR55R	6.3	PILLAR (CST)	5.7
RINOVO	6.3	PINNACLE	5.7
SEDUCTIVE (ISG-30)	6.3	PROMINENT (CS-20)	5.7
SOX FAN (GM3)	6.3	PSRX-4CAGL	5.7
SR4660ST (SRX-4MSH)	6.3	PST-2NJK	5.7
SUNSTREAKER (APR 2036)	6.3	RIPTIDE (IS-PR 409)	5.7
UNO	6.3	STAMINA (IS-PR 487)	5.7
APPLE SGL (PPG-PR 140)	6.0	STELLAR 3GL (PPG-PR 134)	5.7
ASPIRE (IS-PR 489)	6.0	BAR LP 10969	5.3
BANDALORE (IS-PR 463)	6.0	PPG-PR 128	5.3
BAR LP 10970	6.0	DLF LGT 4182	5.0
BAR LP 10972	6.0	LINN	4.0
CS-PR66	6.0		
DOMINATOR (PST-2AG4)	6.0	LSD VALUE	0.9
		C.V. (%)	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.

TABLE 11. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/			
NAME	M01	NAME	M01
ALLANTE	96.0	APR 2445	88.3
JR-192	95.7	BAR LP 10970	88.3
PST-2NKM	95.7	BAR LP 7608	88.3
CL 11601 (VISION)	95.0	BENCHMARK (PST-2BNS)	88.3
PISTOL (PST-2ACR)	95.0	DLF LGD-3026	88.3
SUNSTREAKER (APR 2036)	95.0	LTP-PR 135	88.3
UNO	95.0	PEPPER (RAD-PR62)	88.3
PSRX-4CAGL	94.3	PREMIUM (PPG-PR 137)	88.3
KARMA (PICK 10401)	94.0	THRIVE (IS-PR 469)	88.3
PANGEA GLR (CL 11701)	94.0	WICKED (SRX-4RHD)	88.3
STELLAR 3GL (PPG-PR 134)	94.0	BANFIELD (IS-PR 491)	86.7
AMAZING A+ (PPG-PR 138)	93.3	GREEN SUPREME (PPG-PR 121)	86.7
BAR LP 10972	93.3	INSIGHT	86.7
BRIGHTSTAR SLT	93.3	JR-178	86.7
DILIGENT (IS-PR 492)	93.3	PACIFIC GEM (PST-2MG7)	86.7
FASTBALL RGL (PPG-PR 133)	93.3	PICK 4DFHM	86.7
GO-G37	93.3	PIZZAZZ 2 GLR (PR 909)	86.7
GO-PR60	93.3	PRX-4GM1	86.7
GRAND SLAM GLD (PPG-PR 164)	93.3	SIDEWAYS (PSRX-S84)	86.7
MANHATTAN 6 GLR (PST-2MAGS)	93.3	SR 4650 (PSRX-3701)	86.7
PILLAR (CST)	93.3	SR4660ST (SRX-4MSH)	86.7
PPG-PR 136	93.3	DOMINATOR (PST-2AG4)	85.0
PPG-PR 142	93.3	HANCOCK (IS-PR 479)	85.0
RAD-PR55R	93.3	HAVEN (APR 2038)	85.0
SALINAS II (PST-204D)	92.7	RIO VISTA	85.0
PROVOST (PPG-PR 143)	92.3	SIENNA	85.0
PST-2NJK	92.3	ASP 0112 (A-35)	83.3
APPLE SGL (PPG-PR 140)	91.7	FIESTA 4	83.3
APR 2320	91.7	PALMER V	83.3
EVOLUTION (S85)	91.7	CS-PR66	81.7
EXCELLENCE (ISG-31)	91.7	PPG-PR 128	81.7
GO-DHS	91.7	PROMINENT (CS-20)	81.7
PST-2K9	91.7	VINTAGE (ISG-36)	81.7
RAINWATER (PST-2TQL)	91.7	DLF LGD-3022	80.0
RINOVO	91.7	RIPTIDE (IS-PR 409)	80.0
DLF LGT 4182	90.7	METOLIUS (PPG-PR 165)	78.3
ASPIRE (IS-PR 489)	90.0	SEDUCTIVE (ISG-30)	78.3
BANDALORE (IS-PR 463)	90.0	MONSIEUR (IS-PR 488)	76.7
BAR LP 10969	90.0	OCTANE	75.0
BONNEVILLE	90.0	PINNACLE	73.3
EXPEDITE (CL 307)	90.0	MACH I	71.7
LTP-RAE	90.0	LINN	56.7
PLAYOFF 2 (P02)	90.0		
PST-2DR9	90.0	LSD VALUE	14.2
SOX FAN (GM3)	90.0	C.V. (%)	10.0
STAMINA (IS-PR 487)	90.0		

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 12. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/			
NAME	M01	NAME	M01
FASTBALL RGL (PPG-PR 133)	97.7	INSIGHT	91.7
PANGEA GLR (CL 11701)	97.7	LTP-PR 135	91.7
GRAND SLAM GLD (PPG-PR 164)	97.3	RINOV0	91.7
PISTOL (PST-2ACR)	97.0	WICKED (SRX-4RHD)	91.7
ALLANTE	96.7	BAR LP 7608	90.7
PST-2NKM	96.7	DLF LGD-3026	90.7
CL 11601 (VISION)	96.3	PIZZAZZ 2 GLR (PR 909)	90.7
JR-192	96.3	SR 4650 (PSRX-3701)	90.7
KARMA (PICK 10401)	96.3	ASPIRE (IS-PR 489)	90.0
PROVOST (PPG-PR 143)	96.3	BANDALORE (IS-PR 463)	90.0
PSRX-4CAGL	96.3	BAR LP 10970	90.0
STELLAR 3GL (PPG-PR 134)	96.3	EXPEDITE (CL 307)	90.0
SUNSTREAKER (APR 2036)	96.0	PREMIUM (PPG-PR 137)	90.0
APPLE SGL (PPG-PR 140)	95.7	SIDEWAYS (PSRX-S84)	90.0
PST-2K9	95.7	SR4660ST (SRX-4MSH)	89.7
GO-PR60	95.3	HANCOCK (IS-PR 479)	89.3
AMAZING A+ (PPG-PR 138)	95.0	PALMER V	89.3
DILIGENT (IS-PR 492)	95.0	PEPPER (RAD-PR62)	89.0
EVOLUTION (S85)	95.0	ASP 0112 (A-35)	88.3
EXCELLENCE (ISG-31)	95.0	FIESTA 4	88.3
MANHATTAN 6 GLR (PST-2MAGS)	95.0	GREEN SUPREME (PPG-PR 121)	88.3
RAD-PR55R	95.0	PACIFIC GEM (PST-2MG7)	88.3
UNO	95.0	RIO VISTA	88.3
BAR LP 10972	94.3	JR-178	86.7
BONNEVILLE	94.3	PICK 4DFHM	86.7
RAINWATER (PST-2TQL)	94.3	PPG-PR 128	86.7
SALINAS II (PST-204D)	94.3	PRX-4GM1	86.7
APR 2320	94.0	RIPTIDE (IS-PR 409)	86.7
GO-G37	94.0	DOMINATOR (PST-2AG4)	85.0
PILLAR (CST)	94.0	HAVEN (APR 2038)	85.0
BAR LP 10969	93.3	METOLIUS (PPG-PR 165)	85.0
BENCHMARK (PST-2BNS)	93.3	SEDUCTIVE (ISG-30)	85.0
BRIGHTSTAR SLT	93.3	SIENNA	85.0
GO-DHS	93.3	VINTAGE (ISG-36)	84.0
LTP-RAE	93.3	CS-PR66	83.3
PLAYOFF 2 (P02)	93.3	DLF LGD-3022	83.3
PPG-PR 136	93.3	PROMINENT (CS-20)	82.7
PPG-PR 142	93.3	MONSIEUR (IS-PR 488)	81.7
PST-2DR9	93.3	OCTANE	80.7
SOX FAN (GM3)	93.3	MACH I	75.0
STAMINA (IS-PR 487)	93.3	PINNACLE	75.0
DLF LGT 4182	93.0	LINN	56.7
PST-2NJK	93.0		
THRIVE (IS-PR 469)	92.3	LSD VALUE	13.1
APR 2445	91.7	C.V. (%)	9.0
BANFIELD (IS-PR 491)	91.7		

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 13. PERCENT WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	MA1	NAME	MA1
SIDEWAYS (PSRX-S84)	97.7	LTP-PR 135	68.3
ASPIRE (IS-PR 489)	94.3	PIZZAZZ 2 GLR (PR 909)	68.3
SALINAS II (PST-204D)	93.3	BAR LP 10969	66.7
UNO	93.3	DLF LGD-3022	66.7
MONSIEUR (IS-PR 488)	93.0	KARMA (PICK 10401)	66.3
PLAYOFF 2 (P02)	91.7	PISTOL (PST-2ACR)	65.0
PPG-PR 128	91.3	DLF LGT 4182	63.3
SR 4650 (PSRX-3701)	91.0	THRIVE (IS-PR 469)	63.0
PPG-PR 142	89.3	GO-G37	61.7
OCTANE	88.0	PEPPER (RAD-PR62)	61.7
SEDUCTIVE (ISG-30)	88.0	PST-2DR9	61.7
SR4660ST (SRX-4MSH)	86.7	CS-PR66	60.0
METOLIUS (PPG-PR 165)	86.0	PANGEA GLR (CL 11701)	58.3
PREMIUM (PPG-PR 137)	86.0	ASP 0112 (A-35)	56.7
PRX-4GM1	84.7	EVOLUTION (S85)	56.7
LTP-RAE	83.3	LINN	56.7
SOX FAN (GM3)	83.3	PICK 4DFHM	56.7
PST-2NJK	83.0	RAD-PR55R	56.7
EXPEDITE (CL 307)	81.7	BRIGHTSTAR SLT	55.0
GO-PR60	81.7	INSIGHT	55.0
AMAZING A+ (PPG-PR 138)	81.3	PROVOST (PPG-PR 143)	55.0
CL 11601 (VISION)	81.3	ALLANTE	53.3
BONNEVILLE	80.0	MANHATTAN 6 GLR (PST-2MAGS)	53.3
GRAND SLAM GLD (PPG-PR 164)	80.0	EXCELLENCE (ISG-31)	51.7
HANCOCK (IS-PR 479)	80.0	FIESTA 4	51.7
PALMER V	80.0	BAR LP 10970	50.0
PSRX-4CAGL	80.0	BANFIELD (IS-PR 491)	49.7
RIPTIDE (IS-PR 409)	79.7	RINOVO	48.3
DOMINATOR (PST-2AG4)	78.3	SIENNA	45.0
RAINWATER (PST-2TQL)	78.3	GREEN SUPREME (PPG-PR 121)	43.3
PST-2K9	76.7	HAVEN (APR 2038)	40.0
STAMINA (IS-PR 487)	76.7	PACIFIC GEM (PST-2MG7)	40.0
FASTBALL RGL (PPG-PR 133)	76.3	SUNSTREAKER (APR 2036)	40.0
BENCHMARK (PST-2BNS)	75.0	GO-DHS	38.3
JR-192	75.0	DILIGENT (IS-PR 492)	35.0
PINNACLE	75.0	RIO VISTA	35.0
WICKED (SRX-4RHD)	75.0	DLF LGD-3026	33.3
APPLE SGL (PPG-PR 140)	73.3	VINTAGE (ISG-36)	31.7
BAR LP 10972	73.3	APR 2320	30.0
BAR LP 7608	71.7	PILLAR (CST)	30.0
MACH I	71.7	BANDALORE (IS-PR 463)	23.3
APR 2445	70.0	PST-2NKM	20.0
PPG-PR 136	70.0		
PROMINENT (CS-20)	70.0	LSD VALUE	38.6
STELLAR 3GL (PPG-PR 134)	69.7	C.V. (%)	36.1
JR-178	68.3		

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 14.

STEM RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

STEM RUST RATINGS 1-9; 9=NO DISEASE 2/							
NAME	IA1	PA1	MEAN	NAME	IA1	PA1	MEAN
LTP-RAE	9.0	9.0	9.0	LINN	9.0	5.7	7.3
OCTANE	8.7	9.0	8.8	PILLAR (CST)	7.7	7.0	7.3
CL 11601 (VISION)	8.3	9.0	8.7	PPG-PR 136	7.0	7.7	7.3
EVOLUTION (S85)	8.3	9.0	8.7	SOX FAN (GM3)	8.0	6.7	7.3
PANGEA GLR (CL 11701)	9.0	8.3	8.7	PISTOL (PST-2ACR)	7.3	7.3	7.3
GRAND SLAM GLD (PPG-PR 164)	8.7	8.7	8.7	RINOVO	6.0	8.7	7.3
BANFIELD (IS-PR 491)	8.3	8.7	8.5	PST-2NJK	7.7	6.7	7.2
DILIGENT (IS-PR 492)	8.7	8.3	8.5	SUNSTREAKER (APR 2036)	7.0	7.3	7.2
EXPEDITE (CL 307)	8.7	8.3	8.5	APR 2445	5.7	8.3	7.0
GREEN SUPREME (PPG-PR 121)	8.7	8.3	8.5	PACIFIC GEM (PST-2MG7)	7.0	7.0	7.0
PREMIUM (PPG-PR 137)	8.7	8.3	8.5	WICKED (SRX-4RHD)	8.0	6.0	7.0
STELLAR 3GL (PPG-PR 134)	9.0	8.0	8.5	MACH I	5.7	8.0	6.8
AMAZING A+ (PPG-PR 138)	9.0	7.7	8.3	PROMINENT (CS-20)	5.3	8.3	6.8
FASTBALL RGL (PPG-PR 133)	9.0	7.7	8.3	PSRX-4CAGL	5.3	8.3	6.8
RIO VISTA	7.7	9.0	8.3	EXCELLENCE (ISG-31)	5.0	8.3	6.7
THRIVE (IS-PR 469)	7.7	9.0	8.3	INSIGHT	5.7	7.7	6.7
PIZZAZZ 2 GLR (PR 909)	8.0	8.7	8.3	RAD-PR55R	6.7	6.7	6.7
SR 4650 (PSRX-3701)	8.7	8.0	8.3	DLF LGD-3022	7.3	6.0	6.7
BANDALORE (IS-PR 463)	7.7	8.7	8.2	PPG-PR 142	6.3	7.0	6.7
BONNEVILLE	7.3	9.0	8.2	PST-2K9	7.3	6.0	6.7
PPG-PR 128	8.7	7.7	8.2	SEDUCTIVE (ISG-30)	4.7	8.7	6.7
DOMINATOR (PST-2AG4)	8.0	8.0	8.0	PST-2NKM	6.3	6.7	6.5
JR-178	7.0	9.0	8.0	DLF LGD-3026	7.7	5.0	6.3
KARMA (PICK 10401)	8.7	7.3	8.0	PEPPER (RAD-PR62)	6.0	6.7	6.3
LTP-PR 135	8.0	8.0	8.0	SALINAS II (PST-204D)	7.7	5.0	6.3
PROVOST (PPG-PR 143)	8.7	7.3	8.0	APR 2320	6.3	6.3	6.3
PRX-4GM1	7.7	8.3	8.0	BAR LP 10970	6.3	6.3	6.3
RIPTIDE (IS-PR 409)	7.3	8.7	8.0	PST-2DR9	6.3	6.0	6.2
ASP 0112 (A-35)	6.7	9.0	7.8	CS-PR66	3.3	8.0	5.7
MANHATTAN 6 GLR (PST-2MAGS)	8.3	7.3	7.8	UNO	4.7	6.7	5.7
METOLIUS (PPG-PR 165)	7.3	8.3	7.8	ALLANTE	5.3	6.0	5.7
SR4660ST (SRX-4MSH)	8.7	7.0	7.8	BAR LP 10972	5.0	6.0	5.5
APPLE SGL (PPG-PR 140)	8.3	7.0	7.7	RAINWATER (PST-2TQL)	5.0	6.0	5.5
ASPIRE (IS-PR 489)	7.0	8.3	7.7	GO-DHS	5.0	5.7	5.3
SIDEWAYS (PSRX-S84)	7.0	8.3	7.7	PICK 4DFHM	5.3	5.3	5.3
FIESTA 4	6.3	9.0	7.7	PLAYOFF 2 (P02)	5.7	4.7	5.2
PALMER V	6.7	8.7	7.7	DLF LGT 4182	4.3	6.0	5.2
STAMINA (IS-PR 487)	9.0	6.3	7.7	BAR LP 10969	5.7	4.3	5.0
VINTAGE (ISG-36)	6.3	9.0	7.7	BAR LP 7608	5.0	5.0	5.0
GO-G37	6.3	8.7	7.5	HAVEN (APR 2038)	4.7	5.3	5.0
GO-PR60	7.0	8.0	7.5	BRIGHTSTAR SLT	5.3	3.3	4.3
HANCOCK (IS-PR 479)	6.0	9.0	7.5	JR-192	3.3	5.3	4.3
MONSIEUR (IS-PR 488)	6.7	8.3	7.5	PINNACLE	3.3	4.0	3.7
SIENNA	7.3	7.7	7.5				
BENCHMARK (PST-2BNS)	7.7	7.0	7.3	LSD VALUE	2.3	1.7	1.4
				C.V. (%)	20.2	13.9	17.2

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 15. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

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

NAME	MO1	NAME	MO1
CS-PR66	6.7	EVOLUTION (S85)	4.3
KARMA (PICK 10401)	6.3	FASTBALL RGL (PPG-PR 133)	4.3
PEPPER (RAD-PR62)	6.3	MONSIEUR (IS-PR 488)	4.3
PST-2K9	6.0	PALMER V	4.3
DOMINATOR (PST-2AG4)	5.7	PILLAR (CST)	4.3
GREEN SUPREME(PPG-PR 121)	5.7	PROVOST (PPG-PR 143)	4.3
PST-2NJK	5.7	PRX-4GM1	4.3
ASPIRE (IS-PR 489)	5.3	RAINWATER (PST-2TQL)	4.3
BAR LP 10972	5.3	STAMINA (IS-PR 487)	4.3
BAR LP 7608	5.3	STELLAR 3GL (PPG-PR 134)	4.3
HANCOCK (IS-PR 479)	5.3	SUNSTREAKER (APR 2036)	4.3
PIZZAZZ 2 GLR (PR 909)	5.3	THRIVE (IS-PR 469)	4.3
PPG-PR 128	5.3	VINTAGE (ISG-36)	4.3
BAR LP 10969	5.0	MANHATTAN 6 GLR (PST-2MAGS)	4.0
DILIGENT (IS-PR 492)	5.0	PANGEA GLR (CL 11701)	4.0
EXPEDITE (CL 307)	5.0	PINNACLE	4.0
GO-G37	5.0	PISTOL (PST-2ACR)	4.0
GRAND SLAM GLD (PPG-PR 164)	5.0	PPG-PR 136	4.0
PLAYOFF 2 (P02)	5.0	RIO VISTA	4.0
PSRX-4CAGL	5.0	UNO	4.0
PST-2NKM	5.0	ALLANTE	3.7
RAD-PR55R	5.0	APR 2445	3.7
APPLE SGL (PPG-PR 140)	4.7	ASP 0112 (A-35)	3.7
BAR LP 10970	4.7	BANDALORE (IS-PR 463)	3.7
BENCHMARK (PST-2BNS)	4.7	EXCELLENCE (ISG-31)	3.7
CL 11601 (VISION)	4.7	FIESTA 4	3.7
DLF LGT 4182	4.7	GO-DHS	3.7
GO-PR60	4.7	INSIGHT	3.7
HAVEN (APR 2038)	4.7	LTP-RAE	3.7
JR-192	4.7	METOLIUS (PPG-PR 165)	3.7
PACIFIC GEM (PST-2MG7)	4.7	OCTANE	3.7
PICK 4DFHM	4.7	PROMINENT (CS-20)	3.7
PPG-PR 142	4.7	RINOVO	3.7
PREMIUM (PPG-PR 137)	4.7	SEDUCTIVE (ISG-30)	3.7
SALINAS II (PST-204D)	4.7	LTP-PR 135	3.3
SIDEWAYS (PSRX-S84)	4.7	MACH I	3.3
SOX FAN (GM3)	4.7	PST-2DR9	3.3
SR 4650 (PSRX-3701)	4.7	RIPTIDE (IS-PR 409)	3.3
WICKED (SRX-4RHD)	4.7	SIENNA	3.3
AMAZING A+ (PPG-PR 138)	4.3	SR4660ST (SRX-4MSH)	3.3
APR 2320	4.3	LINN	3.0
BANFIELD (IS-PR 491)	4.3	DLF LGD-3022	2.7
BONNEVILLE	4.3	JR-178	2.7
BRIGHTSTAR SLT	4.3		
DLF LGD-3026	4.3	LSD VALUE	2.2
		C.V. (%)	30.3

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

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

TABLE 16. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

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

NAME	M01	NAME	M01
JR-192	7.3	PSRX-4CAGL	5.3
APR 2320	7.0	RAD-PR55R	5.3
GO-PR60	7.0	RAINWATER (PST-2TQL)	5.3
ASPIRE (IS-PR 489)	6.7	RIPTIDE (IS-PR 409)	5.3
BAR LP 10969	6.7	SR4660ST (SRX-4MSH)	5.3
BENCHMARK (PST-2BNS)	6.7	ALLANTE	5.0
PST-2NKM	6.7	APPLE SGL (PPG-PR 140)	5.0
DILIGENT (IS-PR 492)	6.3	BONNEVILLE	5.0
PILLAR (CST)	6.3	BRIGHTSTAR SLT	5.0
PST-2K9	6.3	FIESTA 4	5.0
PST-2NJK	6.3	GO-DHS	5.0
AMAZING A+ (PPG-PR 138)	6.0	LTP-PR 135	5.0
GRAND SLAM GLD (PPG-PR 164)	6.0	LTP-RAE	5.0
KARMA (PICK 10401)	6.0	PACIFIC GEM (PST-2MG7)	5.0
METOLIUS (PPG-PR 165)	6.0	PLAYOFF 2 (P02)	5.0
PEPPER (RAD-PR62)	6.0	PROVOST (PPG-PR 143)	5.0
SALINAS II (PST-204D)	6.0	RINOVO	5.0
SIDEWAYS (PSRX-S84)	6.0	RIO VISTA	5.0
STAMINA (IS-PR 487)	6.0	STELLAR 3GL (PPG-PR 134)	5.0
WICKED (SRX-4RHD)	6.0	DLF LGD-3026	4.7
BANDALORE (IS-PR 463)	5.7	EVOLUTION (S85)	4.7
BAR LP 10970	5.7	HANCOCK (IS-PR 479)	4.7
BAR LP 7608	5.7	MACH I	4.7
FASTBALL RGL (PPG-PR 133)	5.7	PALMER V	4.7
GREEN SUPREME(PPG-PR 121)	5.7	PANGEA GLR (CL 11701)	4.7
MANHATTAN 6 GLR (PST-2MAGS)	5.7	PICK 4DFHM	4.7
PIZZAZZ 2 GLR (PR 909)	5.7	PPG-PR 142	4.7
PPG-PR 128	5.7	PREMIUM (PPG-PR 137)	4.7
SIENNA	5.7	PROMINENT (CS-20)	4.7
SUNSTREAKER (APR 2036)	5.7	PST-2DR9	4.7
THRIVE (IS-PR 469)	5.7	UNO	4.7
APR 2445	5.3	CL 11601 (VISION)	4.3
ASP 0112 (A-35)	5.3	DOMINATOR (PST-2AG4)	4.3
BANFIELD (IS-PR 491)	5.3	PINNACLE	4.3
BAR LP 10972	5.3	PPG-PR 136	4.3
CS-PR66	5.3	PRX-4GM1	4.3
DLF LGD-3022	5.3	SOX FAN (GM3)	4.3
DLF LGT 4182	5.3	EXCELLENCE (ISG-31)	4.0
EXPEDITE (CL 307)	5.3	JR-178	4.0
GO-G37	5.3	SEDUCTIVE (ISG-30)	4.0
HAVEN (APR 2038)	5.3	VINTAGE (ISG-36)	4.0
INSIGHT	5.3	SR 4650 (PSRX-3701)	3.7
MONSIEUR (IS-PR 488)	5.3	LINN	3.3
OCTANE	5.3		
PISTOL (PST-2ACR)	5.3	LSD VALUE	1.6
		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.

TABLE 17. CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/

NAME	MO1	NAME	MO1
OCTANE	8.0	BENCHMARK (PST-2BNS)	4.7
PANGAEA GLR (CL 11701)	8.0	GO-PR60	4.7
GRAND SLAM GLD (PPG-PR 164)	7.7	GREEN SUPREME(PPG-PR 121)	4.7
STELLAR 3GL (PPG-PR 134)	7.3	MACH I	4.7
THRIVE (IS-PR 469)	7.3	SEDUCTIVE (ISG-30)	4.7
BONNEVILLE	7.0	SR4660ST (SRX-4MSH)	4.7
EVOLUTION (S85)	7.0	VINTAGE (ISG-36)	4.7
PIZZAZZ 2 GLR (PR 909)	7.0	APR 2445	4.3
EXPEDITE (CL 307)	6.7	ASP 0112 (A-35)	4.3
LTP-RAE	6.7	ASPIRE (IS-PR 489)	4.3
METOLIUS (PPG-PR 165)	6.7	HANCOCK (IS-PR 479)	4.3
SIDEWAYS (PSRX-S84)	6.7	PROMINENT (CS-20)	4.3
AMAZING A+ (PPG-PR 138)	6.3	PSRX-4CAGL	4.3
BANDALORE (IS-PR 463)	6.3	SALINAS II (PST-204D)	4.3
BANFIELD (IS-PR 491)	6.3	SOX FAN (GM3)	4.3
CL 11601 (VISION)	6.3	SUNSTREAKER (APR 2036)	4.3
DILIGENT (IS-PR 492)	6.3	EXCELLENCE (ISG-31)	4.0
MONSIEUR (IS-PR 488)	6.3	PALMER V	4.0
PROVOST (PPG-PR 143)	6.3	PEPPER (RAD-PR62)	4.0
RIO VISTA	6.3	RAINWATER (PST-2TQL)	4.0
JR-178	6.0	DLF LGT 4182	3.7
PILLAR (CST)	6.0	GO-DHS	3.7
PISTOL (PST-2ACR)	6.0	PRX-4GM1	3.7
PPG-PR 128	6.0	RAD-PR55R	3.7
PPG-PR 136	6.0	UNO	3.7
RIPTIDE (IS-PR 409)	6.0	BAR LP 10970	3.3
SR 4650 (PSRX-3701)	6.0	CS-PR66	3.3
STAMINA (IS-PR 487)	6.0	DLF LGD-3026	3.3
FASTBALL RGL (PPG-PR 133)	5.7	GO-G37	3.3
LTP-PR 135	5.7	INSIGHT	3.3
PST-2DR9	5.7	JR-192	3.3
RINOVO	5.7	LINN	3.3
FIESTA 4	5.3	PICK 4DFHM	3.3
KARMA (PICK 10401)	5.3	PST-2K9	3.3
MANHATTAN 6 GLR (PST-2MAGS)	5.3	HAVEN (APR 2038)	3.0
PPG-PR 142	5.3	PST-2NJK	3.0
WICKED (SRX-4RHD)	5.3	PST-2NKM	3.0
ALLANTE	5.0	BAR LP 7608	2.7
APPLE SGL (PPG-PR 140)	5.0	PLAYOFF 2 (P02)	2.7
APR 2320	5.0	BAR LP 10969	2.0
DLF LGD-3022	5.0	BAR LP 10972	2.0
DOMINATOR (PST-2AG4)	5.0	BRIGHTSTAR SLT	2.0
PACIFIC GEM (PST-2MG7)	5.0	PINNACLE	1.7
PREMIUM (PPG-PR 137)	5.0		
SIENNA	5.0	LSD VALUE	1.8
		C.V. (%)	22.3

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 18. MOWING QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

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

NAME	PA1	NAME	PA1
APR 2320	8.0	MONSIEUR (IS-PR 488)	5.3
THRIVE (IS-PR 469)	7.7	PALMER V	5.3
ALLANTE	7.3	PPG-PR 142	5.3
INSIGHT	7.3	PROVOST (PPG-PR 143)	5.3
JR-192	7.3	PST-2NKM	5.3
BAR LP 10969	7.0	APPLE SGL (PPG-PR 140)	5.0
SUNSTREAKER (APR 2036)	7.0	BENCHMARK (PST-2BNS)	5.0
SIENNA	6.7	BRIGHTSTAR SLT	5.0
BAR LP 7608	6.3	DLF LGD-3026	5.0
KARMA (PICK 10401)	6.3	EVOLUTION (S85)	5.0
RINOVO	6.3	FIESTA 4	5.0
ASPIRE (IS-PR 489)	6.0	PILLAR (CST)	5.0
BANDALORE (IS-PR 463)	6.0	PPG-PR 128	5.0
BAR LP 10970	6.0	PPG-PR 136	5.0
EXPEDITE (CL 307)	6.0	PREMIUM (PPG-PR 137)	5.0
GO-DHS	6.0	PSRX-4CAGL	5.0
LTP-RAE	6.0	PST-2K9	5.0
RIO VISTA	6.0	BANFIELD (IS-PR 491)	4.7
RIPTIDE (IS-PR 409)	6.0	GO-G37	4.7
SALINAS II (PST-204D)	6.0	PINNACLE	4.7
STAMINA (IS-PR 487)	6.0	SIDEWAYS (PSRX-S84)	4.7
STELLAR 3GL (PPG-PR 134)	6.0	DOMINATOR (PST-2AG4)	4.3
ASP 0112 (A-35)	5.7	HAVEN (APR 2038)	4.3
DILIGENT (IS-PR 492)	5.7	MANHATTAN 6 GLR (PST-2MAGS)	4.3
GRAND SLAM GLD (PPG-PR 164)	5.7	OCTANE	4.3
LTP-PR 135	5.7	PANGEA GLR (CL 11701)	4.3
PEPPER (RAD-PR62)	5.7	PLAYOFF 2 (P02)	4.3
PIZZAZZ 2 GLR (PR 909)	5.7	RAD-PR55R	4.3
RAINWATER (PST-2TQL)	5.7	SEDUCTIVE (ISG-30)	4.3
SR 4650 (PSRX-3701)	5.7	SR4660ST (SRX-4MSH)	4.3
UNO	5.7	PACIFIC GEM (PST-2MG7)	4.0
VINTAGE (ISG-36)	5.7	PISTOL (PST-2ACR)	4.0
WICKED (SRX-4RHD)	5.7	PST-2NJK	4.0
AMAZING A+ (PPG-PR 138)	5.3	CS-PR66	3.7
APR 2445	5.3	EXCELLENCE (ISG-31)	3.7
BAR LP 10972	5.3	PICK 4DFHM	3.7
DLF LGD-3022	5.3	PROMINENT (CS-20)	3.7
DLF LGT 4182	5.3	PST-2DR9	3.7
FASTBALL RGL (PPG-PR 133)	5.3	SOX FAN (GM3)	3.7
GO-PR60	5.3	BONNEVILLE	3.3
GREEN SUPREME(PPG-PR 121)	5.3	CL 11601 (VISION)	3.3
HANCOCK (IS-PR 479)	5.3	PRX-4GM1	2.7
JR-178	5.3	LINN	1.0
MACH I	5.3		
METOLIUS (PPG-PR 165)	5.3	LSD VALUE	1.4
		C.V. (%)	16.5

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

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

TABLE 19. PERCENT POA ANNUAL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA 2/

NAME	MD1	NAME	MD1
GO-DHS	45.0	SR4660ST (SRX-4MSH)	4.0
LINN	43.3	PLAYOFF 2 (P02)	3.7
BAR LP 7608	42.5	CS-PR66	3.3
MACH I	40.0	GREEN SUPREME (PPG-PR 121)	3.3
SIENNA	34.3	STELLAR 3GL (PPG-PR 134)	3.3
DLF LGT 4182	31.7	BONNEVILLE	3.0
PINNACLE	31.7	PACIFIC GEM (PST-2MG7)	3.0
INSIGHT	26.3	SUNSTREAKER (APR 2036)	3.0
GO-G37	23.7	PPG-PR 128	2.7
PIZZAZZ 2 GLR (PR 909)	22.7	PRX-4GM1	2.7
SEDUCTIVE (ISG-30)	22.3	AMAZING A+ (PPG-PR 138)	2.3
PROMINENT (CS-20)	20.7	ASPIRE (IS-PR 489)	2.3
APR 2320	19.0	DILIGENT (IS-PR 492)	2.3
FIESTA 4	18.3	JR-178	2.3
DLF LGD-3026	18.0	MONSIEUR (IS-PR 488)	2.3
EXCELLENCE (ISG-31)	17.7	PILLAR (CST)	2.3
PEPPER (RAD-PR62)	16.0	UNO	2.3
BAR LP 10969	15.0	EVOLUTION (S85)	2.0
BRIGHTSTAR SLT	14.7	GRAND SLAM GLD (PPG-PR 164)	2.0
BAR LP 10972	14.3	HAVEN (APR 2038)	2.0
ALLANTE	14.0	LTP-PR 135	2.0
RAD-PR55R	14.0	PISTOL (PST-2ACR)	2.0
MANHATTAN 6 GLR (PST-2MAGS)	13.3	PROVOST (PPG-PR 143)	2.0
VINTAGE (ISG-36)	13.0	PST-2K9	2.0
DOMINATOR (PST-2AG4)	12.3	APPLE SGL (PPG-PR 140)	1.7
RIPTIDE (IS-PR 409)	12.0	PPG-PR 142	1.7
RINOVO	11.0	PREMIUM (PPG-PR 137)	1.7
FASTBALL RGL (PPG-PR 133)	8.7	RIO VISTA	1.7
GO-PR60	8.7	BANFIELD (IS-PR 491)	1.3
PALMER V	8.7	BENCHMARK (PST-2BNS)	1.3
BANDALORE (IS-PR 463)	8.3	PPG-PR 136	1.3
HANCOCK (IS-PR 479)	8.3	DLF LGD-3022	1.0
LTP-RAE	8.0	EXPEDITE (CL 307)	1.0
ASP 0112 (A-35)	7.3	KARMA (PICK 10401)	1.0
PICK 4DFHM	7.0	METOLIUS (PPG-PR 165)	1.0
THRIVE (IS-PR 469)	7.0	PST-2NJK	1.0
RAINWATER (PST-2TQL)	6.3	PST-2NKM	1.0
JR-192	6.0	STAMINA (IS-PR 487)	1.0
PST-2DR9	6.0	CL 11601 (VISION)	0.7
SOX FAN (GM3)	5.7	PANGEA GLR (CL 11701)	0.7
BAR LP 10970	5.3	SIDEWAYS (PSRX-S84)	0.3
APR 2445	5.0	SR 4650 (PSRX-3701)	0.3
SALINAS II (PST-204D)	4.7	WICKED (SRX-4RHD)	0.0
OCTANE	4.3		
PSRX-4CAGL	4.3	LSD VALUE	10.3
		C.V. (%)	69.3

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 20. POA ANNUA COUNTS OF PERENNIAL RYEGRASS CULTIVARS 1/
2014 DATA

POA ANNUA COUNTS PER PLOT 2/			
NAME	MA1	NAME	MA1
DLF LGT 4182	143.7	JR-192	37.0
LINN	118.7	PRX-4GM1	37.0
RAD-PR55R	87.3	CL 11601 (VISION)	36.3
SEDUCTIVE (ISG-30)	85.3	BANDALORE (IS-PR 463)	35.7
PISTOL (PST-2ACR)	84.7	APR 2320	35.0
PLAYOFF 2 (P02)	72.7	BRIGHTSTAR SLT	35.0
EXCELLENCE (ISG-31)	70.3	SALINAS II (PST-204D)	35.0
BAR LP 7608	69.7	JR-178	34.7
DOMINATOR (PST-2AG4)	68.7	BAR LP 10970	34.0
GO-PR60	68.3	FASTBALL RGL (PPG-PR 133)	34.0
EXPEDITE (CL 307)	67.7	SUNSTREAKER (APR 2036)	33.0
BONNEVILLE	67.0	THRIVE (IS-PR 469)	31.7
RAINWATER (PST-2TQL)	66.3	PINNACLE	31.3
VINTAGE (ISG-36)	65.0	APPLE SGL (PPG-PR 140)	31.0
MONSIEUR (IS-PR 488)	63.7	ASPIRE (IS-PR 489)	30.0
BAR LP 10969	63.3	FIESTA 4	30.0
CS-PR66	63.3	GREEN SUPREME (PPG-PR 121)	29.7
DLF LGD-3026	61.3	LTP-RAE	29.3
MACH I	60.3	STAMINA (IS-PR 487)	29.3
GO-DHS	60.0	STELLAR 3GL (PPG-PR 134)	29.3
PROMINENT (CS-20)	60.0	PIZZAZZ 2 GLR (PR 909)	28.3
ASP 0112 (A-35)	59.7	PEPPER (RAD-PR62)	28.0
SR4660ST (SRX-4MSH)	59.7	BANFIELD (IS-PR 491)	27.7
PST-2K9	57.3	PPG-PR 142	27.7
UNO	57.3	RINOVO	27.3
APR 2445	55.7	PILLAR (CST)	26.3
RIPTIDE (IS-PR 409)	55.0	PST-2NKM	25.0
GO-G37	52.7	LTP-PR 135	24.7
HANCOCK (IS-PR 479)	50.3	PACIFIC GEM (PST-2MG7)	24.3
PST-2DR9	50.3	METOLIUS (PPG-PR 165)	23.7
MANHATTAN 6 GLR (PST-2MAGS)	50.0	INSIGHT	22.7
SIDEWAYS (PSRX-S84)	49.0	KARMA (PICK 10401)	22.7
PICK 4DFHM	48.0	PANGEA GLR (CL 11701)	22.0
DLF LGD-3022	46.7	PPG-PR 136	21.7
BAR LP 10972	45.3	GRAND SLAM GLD (PPG-PR 164)	21.0
SOX FAN (GM3)	45.3	PSRX-4CAGL	20.3
BENCHMARK (PST-2BNS)	44.7	SR 4650 (PSRX-3701)	19.3
PPG-PR 128	41.7	AMAZING A+ (PPG-PR 138)	16.7
WICKED (SRX-4RHD)	41.7	PREMIUM (PPG-PR 137)	16.3
DILIGENT (IS-PR 492)	40.3	RIO VISTA	16.0
OCTANE	39.3	ALLANTE	15.7
PALMER V	38.3	PROVOST (PPG-PR 143)	15.7
PST-2NJK	37.7	SIENNA	14.0
EVOLUTION (S85)	37.3		
HAVEN (APR 2038)	37.3	LSD VALUE	39.1
		C.V. (%)	55.2

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS */
2014 DATA
TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/	NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
ALLANTE	5.2	10	MONSIEUR (IS-PR 488)	5.2	10
AMAZING A+ (PPG-PR 138)	5.6	40	OCTANE	5.5	20
APPLE SGL (PPG-PR 140)	5.7	60	PACIFIC GEM (PST-2MG7)	5.4	10
APR 2320	5.3	10	PALMER V	5.6	30
APR 2445	5.5	10	PANGEA GLR (CL 11701)	6.2	90
ASP 0112 (A-35)	5.0	10	PEPPER (RAD-PR62)	5.2	20
ASPIRE (IS-PR 489)	5.6	50	PICK 4DFHM	5.0	10
BANDALORE (IS-PR 463)	5.6	40	PILLAR (CST)	5.5	20
BANFIELD (IS-PR 491)	5.7	40	PINNACLE	4.3	0
BAR LP 10969	4.9	0	PISTOL (PST-2ACR)	5.3	10
BAR LP 10970	5.3	20	PIZZAZZ 2 GLR (PR 909)	5.7	60
BAR LP 10972	4.8	0	PLAYOFF 2 (P02)	5.0	0
BAR LP 7608	4.6	0	PPG-PR 128	5.6	20
BENCHMARK (PST-2BNS)	5.8	40	PPG-PR 136	5.6	30
BONNEVILLE	5.4	10	PPG-PR 142	5.4	20
BRIGHTSTAR SLT	4.9	0	PREMIUM (PPG-PR 137)	5.7	30
CL 11601 (VISION)	5.8	50	PROMINENT (CS-20)	5.0	20
CS-PR66	5.3	30	PROVOST (PPG-PR 143)	5.5	20
DILIGENT (IS-PR 492)	5.7	40	PRX-4GM1	5.2	0
DLF LGD-3022	4.9	0	PSRX-4CAGL	5.4	10
DLF LGD-3026	4.8	10	PST-2DR9	5.2	10
DLF LGT 4182	4.6	10	PST-2K9	5.5	40
DOMINATOR (PST-2AG4)	5.4	20	PST-2NJK	5.5	30
EVOLUTION (S85)	6.0	70	PST-2NKM	5.6	40
EXCELLENCE (ISG-31)	4.9	0	RAD-PR55R	5.2	10
EXPEDITE (CL 307)	5.7	20	RAINWATER (PST-2TQL)	5.1	0
FASTBALL RGL (PPG-PR 133)	5.4	20	RINOVO	5.5	50
FIESTA 4	5.4	30	RIO VISTA	5.8	50
GO-DHS	4.8	10	RIPTIDE (IS-PR 409)	5.3	10
GO-G37	5.1	0	SALINAS II (PST-204D)	5.1	10
GO-PR60	5.3	30	SEDUCTIVE (ISG-30)	5.1	20
GRAND SLAM GLD (PPG-PR 164)	6.2	90	SIDEWAYS (PSRX-S84)	5.6	20
GREEN SUPREME (PPG-PR 121)	5.7	30	SIENNA	5.1	20
HANCOCK (IS-PR 479)	5.5	30	SOX FAN (GM3)	5.2	0
HAVEN (APR 2038)	5.3	10	SR 4650 (PSRX-3701)	6.1	70
INSIGHT	5.2	20	SR4660ST (SRX-4MSH)	5.5	20
JR-178	5.6	40	STAMINA (IS-PR 487)	5.7	40
JR-192	5.6	30	STELLAR 3GL (PPG-PR 134)	5.8	50
KARMA (PICK 10401)	6.1	80	SUNSTREAKER (APR 2036)	5.6	20
LINN	2.8	0	THRIVE (IS-PR 469)	6.0	70
LTP-PR 135	5.5	20	UNO	5.3	20
LTP-RAE	5.5	30	VINTAGE (ISG-36)	5.0	20
MACH I	4.8	0	WICKED (SRX-4RHD)	5.7	50
MANHATTAN 6 GLR (PST-2MAGS)	5.5	10			
METOLIUS (PPG-PR 165)	5.7	20	LSO VALUE	0.3	
			C.V. (%)	11.5	

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

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

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

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