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2010 National Perennial Ryegrass Test - 2012 data

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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 2012

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Riverside	CA3
California	Riverside (Traffic Study)	CA4
Illinois	Urbana	IL1
Iowa	Ames	IA1
Maryland	College Park	MD1
Massachusetts	Amherst	MA1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
Oregon	Corvallis	OR1
Virginia	Blacksburg	VA1
Virginia	Blacksburg (Traffic Study)	VA2
Washington	Puyallup (Sand Drought Stress)	WA3
Wisconsin	Madison	WI1

2010 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
* 1	Rinovo	Semillas Fito	46	ISG-31	Integrated Seeds
2	CL 11601	The Scotts Company	47	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	CST	Columbia Seeds
5	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	RAD-PR62	Radix Research
*11	Wicked (SRX-4RHD)	Seed Research of Oregon	56	RAD-PR55R	Lewis Seed
*12	Playoff 2 (P02)	John Deere Landscapes	57	IS-PR 409	Brett Young Seeds Ltd.
*13	Evolution (S85)	John Deere Landscapes	58	IS-PR 463	DLF International Seeds
14	LTP-RAE	Lebanon Turf Products	59	IS-PR 469	DLF International Seeds
*15	Allante	Ledeboer Seed/Pro-Turf Solutions-OVS	60	IS-PR 479	DLF International Seeds
*16	Insight	Ledeboer Seed/Pro-Turf Solutions-OVS	61	IS-PR 487	DLF International Seeds
*17	Sienna	Ledeboer Seed/Pro-Turf Solutions-OVS	62	IS-PR 488	DLF International Seeds
*18	Brightstar SLT	Standard Entry	63	IS-PR 489	DLF International Seeds
19	CL 307	Pennington Seed Company	64	IS-PR 491	DLF International Seeds
20	APR 2320	Pennington Seed Company	65	IS-PR 492	DLF International Seeds
*21	Haven (APR 2038)	Smith Seed Services	66	DLF LGT 4182	DLF International Seeds
22	PPG-PR 121	Ampac Seed Company	67	ISG-30	Integrated Seeds
23	PPG-PR 128	Integra Turf, Inc.	68	PST-204D	Landmark Native Seeds
24	PPG-PR 133	Mountain View Seeds	69	PST-2NKM	Landmark Native Seeds
*25	PPG-PR 134	Mountain View Seeds	70	PST-2DR9	Pure-Seed Testing
26	LTP-PR 135	Lebanon Turf Products	71	PST-2MG7	Pure-Seed Testing
27	PPG-PR 136	Lewis Seed	72	PST-2TQL	Pure-Seed Testing
28	PPG-PR 137	Columbia Seeds	*73	Dominator (PST-2AG4)	Brett Young Seeds Ltd.
29	PPG-PR 138	Ampac Seed Company	74	MANHATTAN 6 GLR (PST-2MAGS)	Turf Merchants, Inc.
30	PPG-PR 140	Mountain View Seeds	75	PST-2K9	The Scotts Company
31	PPG-PR 142	Peak Plant Genetics	76	PST-2BNS	Pure-Seed Testing
32	PPG-PR 143	Columbia Seeds	77	PST-2ACR	Pure-Seed Testing
*33	PPG-PR 164	Mountain View Seeds	*78	Rio Vista	Burlingham Seeds
34	PPG-PR 165	Peak Plant Genetics	*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	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	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	CS-20	Columbia Seeds			
45	ISG-36	Integrated Seeds			

* COMMERCIALY AVAILABLE IN THE USA IN 2013

Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 TABLE A. 2012 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
CA3	SANDY LOAM	7.6-8.5	0-60	0-150	6.1-7.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
CA4	SANDY LOAM	7.6-8.5	0-60	0-150	6.1-7.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	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	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
MI1	-	-	-	-	-	-	-	-
MN1	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	2.1-3.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
MO1	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	2.1-3.0	FULL SUN	2.1-2.5	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	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OR1	SILTY CLAY LOAM	5.6-6.0	61-150	241-375	-	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
VA1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	-	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
VA2	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
WA3	SAND	6.6-7.0	0-60	0-150	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY

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
CA3	X	X	X	X	X	X	X	X	X	X	X	X			
CA4	X	X	X	X	X	X	X	X	X	X	X	X			
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	X		X	X	
MD1					X	X	X	X	X	X	X	X			
MI1				X	X	X	X	X	X	X					
MN1				X	X	X	X	X	X	X			X		
MO1			X	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		
OR1	X	X	X	X	X	X	X	X	X	X	X	X	X		
VA1			X		X	X	X	X	X		X				
VA2			X		X	X	X	X	X		X				
WA3		X	X	X	X	X	X	X	X	X	X	X	X	X	
WI1						X	X	X	X	X	X				

Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2012

LOCATION	SPRING DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	RED THREAD	GRAY LEAF SPOT	FALL COLOR OCTOBER	PERCENT POA ANNUA	WEAR JUNE	TOLERANCE SEPTEMBER	DOLLAR JUNE	SPOT JULY
CA3												
* CA4		X	X	X								
IA1					X							
IL1												
MA1	X								X	X		
MD1						X		X				
MI1												
MN1												
MO1		X		X								
NE1												
NJ2											X	X
OR1												
VA1												
* VA2		X										
* WA3				X			X					
* WI1												

* MORE DATA FOR CA4, VA2, WA3 AND WI1 IN TABLE 9, 10, 12 AND 11.

TABLE 1. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
 2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ2	VA1	IA1	CA3	MEAN
* WICKED (SRX-4RHD)	6.1	6.7	6.0	7.2	6.5
* EVOLUTION (S85)	5.9	6.6	5.9	7.2	6.4
* PANGEA GLR (CL 11701)	5.8	6.5	5.8	7.1	6.3
PST-204D	5.6	6.4	5.8	7.0	6.2
PST-2BNS	5.3	6.4	5.8	7.1	6.1
PST-2NKM	5.5	6.4	5.7	7.0	6.1
Apr-45	5.6	6.3	5.7	7.0	6.1
* DOMINATOR (PST-2AG4)	5.6	6.2	5.7	7.0	6.1
PST-2K9	5.4	6.3	5.7	7.0	6.1
* STELLAR 3GL (PPG-PR 134)	4.9	6.5	5.8	7.1	6.1
* KARMA (PICK 10401)	5.5	6.2	5.6	6.9	6.1
GO-PR60	5.7	5.8	5.6	7.1	6.0
PST-2ACR	5.5	6.1	5.6	6.9	6.0
BANFIELD (IS-PR 491)	5.5	5.9	5.6	7.1	6.0
PST-2TQL	5.6	6.0	5.6	6.9	6.0
IS-PR 492	5.1	6.2	5.7	7.1	6.0
BAR LP 10970	5.4	6.1	5.6	6.9	6.0
A-35	5.2	5.9	5.6	7.1	6.0
FASTBALL RGL (PPG-PR 133)	5.0	6.2	5.6	7.1	6.0
* SIDEWAYS (PSRX-S84)	5.2	6.3	5.6	6.8	6.0
GO-G37	5.1	6.0	5.6	7.1	6.0
BAR LP 10969	5.5	5.7	5.5	7.1	6.0
* HAVEN (APR 2038)	4.7	6.6	5.7	6.8	6.0
PROMINENT (CS-20)	4.7	6.1	5.8	7.2	6.0
THRIVE (IS-PR 469)	4.9	6.0	5.7	7.2	5.9
BANDALORE (IS-PR 463)	5.5	5.8	5.5	7.0	5.9
PST-2DR9	5.2	6.1	5.5	6.8	5.9
* GRAND SLAM GLD (PPG-PR 164)	4.9	6.1	5.6	7.1	5.9
BAR LP 10972	5.5	5.9	5.5	6.8	5.9
ISG-31	4.9	5.9	5.6	7.2	5.9
RAD-PR62	5.0	6.0	5.6	7.1	5.9
2NJK	5.1	6.1	5.5	6.8	5.9
PPG-PR 121	5.0	6.1	5.5	6.9	5.9
PST-2MG7	4.8	6.1	5.6	6.9	5.9
RAD-PR55R	5.0	5.6	5.5	7.3	5.9
PPG-PR 136	5.2	5.9	5.4	6.9	5.9
CL 307	5.0	6.0	5.5	6.9	5.9
CL 11601	4.6	6.2	5.6	7.0	5.8
ISG-30	5.0	5.8	5.5	7.1	5.8
Apr-20	5.4	5.3	5.4	7.2	5.8
DLF LGT 4182	5.0	6.0	5.5	6.8	5.8
DLF LGD-3022	5.0	5.9	5.4	6.9	5.8
* RIO VISTA	5.5	5.7	5.3	6.7	5.8
* FIESTA 4	5.0	5.7	5.4	7.1	5.8
PREMIUM (PPG-PR 137)	5.0	6.0	5.4	6.8	5.8
* UNO	4.8	6.0	5.5	6.9	5.8
* OCTANE	4.9	5.8	5.4	7.0	5.8
ISG-36	5.1	5.7	5.4	6.9	5.8
* PALMER V	4.8	5.8	5.5	7.1	5.8
CS-PR66	4.9	5.7	5.4	7.0	5.8
STAMINA (IS-PR 487)	4.8	5.7	5.4	7.0	5.7

TABLE 1. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass Test, 12 data reported with permission from NTEP
 (CONT'D) GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/

2012 DATA					
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	NJ2	VA1	IA1	CA3	MEAN
GO-DHS	4.8	5.8	5.5	6.9	5.7
* SR 4650 (PSRX-3701)	4.6	5.8	5.4	7.0	5.7
PPG-PR 165	5.0	5.7	5.3	6.9	5.7
ASPAIRE (IS-PR 489)	4.6	5.8	5.4	7.0	5.7
PPG-PR 138	4.5	5.8	5.4	7.1	5.7
IS-PR 409	5.0	5.5	5.3	7.0	5.7
* RINOVO	4.5	6.0	5.4	6.9	5.7
* PIZZAZZ 2 GLR (PR 909)	4.6	5.7	5.4	7.0	5.7
PRX-4GM1	4.5	5.9	5.4	6.8	5.7
SRX-4MSH	4.7	5.8	5.3	6.8	5.7
Apr-36	4.5	5.8	5.4	6.9	5.7
PPG-PR 128	4.7	5.7	5.3	6.8	5.7
JR-178	4.9	5.6	5.3	6.9	5.6
* PLAYOFF 2 (P02)	4.6	5.8	5.4	6.8	5.6
* BONNEVILLE	4.5	5.7	5.3	6.9	5.6
PPG-PR 143	4.4	5.8	5.3	6.8	5.6
MANHATTAN 6 GLR (PST-2MAGS)	4.2	5.8	5.4	6.9	5.6
APPLE SGL (PPG-PR 140)	4.2	5.7	5.3	7.0	5.6
HANCOCK (IS-PR 479)	4.9	5.1	5.2	7.0	5.6
* BRIGHTSTAR SLT	4.3	5.6	5.3	6.9	5.5
BAR LP 7608	4.4	5.5	5.3	6.9	5.5
PICK 4DFHM	4.0	5.8	5.4	6.9	5.5
LTP-PR 135	4.3	5.7	5.2	6.8	5.5
* MACH I	4.9	5.1	5.1	6.9	5.5
* SOX FAN (GM3)	4.5	5.4	5.1	6.9	5.5
LTP-RAE	4.7	5.3	5.1	6.8	5.4
PILLAR (CST)	4.3	5.4	5.2	7.0	5.4
PPG-PR 142	4.4	5.5	5.1	6.8	5.4
PSRX-4CAGL	4.3	5.3	5.1	6.8	5.4
IS-PR 488	4.2	5.4	5.1	6.8	5.4
DLF LGD-3026	4.1	5.5	5.1	6.7	5.4
JR-192	4.4	5.1	5.0	6.7	5.3
* ALLANTE	3.7	5.0	5.0	7.0	5.2
* PINNACLE	3.2	5.2	4.9	6.6	5.0
* SIENNA	3.9	4.1	4.6	7.0	4.9
* INSIGHT	3.5	4.3	4.6	6.9	4.8
* LINN	0.7	4.1	3.7	5.3	3.5
LSD VALUE	0.8	0.8	0.8	0.8	0.8
C.V. (%)	9.9	8.3	8.9	6.9	8.3

* COMMERCIALY AVAILABLE IN THE USA IN 2013

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

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN 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/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
 2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MI1	MN1	MO1	NE1	MEAN
EVOLUTION (S85)	7.5	5.9	6.0	6.1	6.4
SR 4650 (PSRX-3701)	7.5	5.8	5.9	6.1	6.3
KARMA (PICK 10401)	7.5	5.9	5.8	5.9	6.3
PANGEA GLR (CL 11701)	7.4	5.7	5.9	6.0	6.3
RIO VISTA	7.6	5.9	5.6	5.8	6.3
BANFIELD (IS-PR 491)	7.5	5.6	5.9	6.0	6.3
PIZZAZZ 2 GLR (PR 909)	7.4	5.7	5.8	6.0	6.2
BANDALORE (IS-PR 463)	7.5	5.6	5.8	5.9	6.2
PPG-PR 165	7.5	5.7	5.7	5.9	6.2
STAMINA (IS-PR 487)	7.4	5.6	5.9	6.0	6.2
IS-PR 409	7.5	5.6	5.8	6.0	6.2
WICKED (SRX-4RHD)	7.3	5.5	6.0	6.0	6.2
GRAND SLAM GLD (PPG-PR 164)	7.3	5.5	5.9	6.1	6.2
Apr-20	7.5	5.1	6.0	6.0	6.2
SIENNA	7.6	5.2	5.7	6.0	6.2
PPG-PR 138	7.3	5.4	5.8	6.0	6.1
FIESTA 4	7.3	5.4	5.8	6.0	6.1
CL 307	7.3	5.6	5.7	5.9	6.1
PPG-PR 136	7.3	5.5	5.7	5.8	6.1
JR-178	7.3	5.5	5.7	5.9	6.1
HANCOCK (IS-PR 479)	7.4	5.1	5.8	5.9	6.1
PST-2BNS	7.1	5.3	5.9	6.0	6.1
RINOVO	7.1	5.5	5.7	5.9	6.1
SIDEWAYS (PSRX-S84)	7.2	5.6	5.7	5.8	6.1
CL 11601	7.1	5.4	5.8	6.0	6.1
Apr-36	7.2	5.4	5.7	5.9	6.0
SOX FAN (GM3)	7.3	5.3	5.7	5.9	6.0
APPLE SGL (PPG-PR 140)	7.1	5.3	5.8	6.0	6.0
PPG-PR 143	7.1	5.5	5.6	5.9	6.0
PPG-PR 121	7.1	5.5	5.7	5.8	6.0
GO-PR60	7.2	5.0	5.9	5.9	6.0
OCTANE	7.1	5.2	5.8	5.9	6.0
RAD-PR55R	7.2	4.8	6.0	6.0	6.0
ASPAIRE (IS-PR 489)	7.1	5.2	5.8	5.9	6.0
PREMIUM (PPG-PR 137)	7.1	5.4	5.6	5.8	6.0
IS-PR 492	7.0	5.0	5.9	5.9	6.0
THRIVE (IS-PR 469)	7.0	4.9	5.9	6.0	6.0
Apr-45	7.1	5.2	5.8	5.8	6.0
PALMER V	7.1	5.0	5.8	5.9	6.0
FASTBALL RGL (PPG-PR 133)	7.0	5.1	5.8	5.9	6.0
BONNEVILLE	7.0	5.2	5.7	5.9	6.0
CS-PR66	7.1	5.1	5.7	5.9	5.9
LTP-PR 135	7.0	5.3	5.6	5.8	5.9
UNO	7.0	5.2	5.7	5.8	5.9
PPG-PR 128	7.1	5.2	5.6	5.8	5.9
DLF LGD-3022	7.1	5.2	5.7	5.8	5.9
PPG-PR 142	7.1	5.3	5.6	5.8	5.9
DOMINATOR (PST-2AG4)	7.0	5.1	5.8	5.8	5.9
BAR LP 10969	7.2	4.9	5.8	5.8	5.9
PILLAR (CST)	7.1	5.0	5.7	5.9	5.9
LTP-RAE	7.2	5.1	5.6	5.7	5.9

2012 DATA					
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	MI1	MN1	MO1	NE1	MEAN
PSRX-4CAGL	7.1	5.1	5.6	5.8	5.9
JR-192	7.1	5.1	5.5	5.7	5.9
2NJK	7.0	5.2	5.6	5.7	5.9
PRX-4GM1	6.9	5.1	5.6	5.8	5.8
IS-PR 488	7.0	5.1	5.6	5.8	5.8
SRX-4MSH	6.9	5.1	5.6	5.7	5.8
INSIGHT	7.1	4.7	5.6	5.8	5.8
PST-2K9	6.9	5.0	5.7	5.7	5.8
BAR LP 10970	6.9	5.0	5.6	5.7	5.8
STELLAR 3GL (PPG-PR 134)	6.7	4.8	5.8	5.9	5.8
MACH I	7.1	4.8	5.6	5.7	5.8
PST-2TQL	7.0	4.9	5.7	5.7	5.8
PST-2ACR	6.9	5.0	5.6	5.7	5.8
PST-2NKM	6.8	4.9	5.7	5.7	5.8
ALLANTE	6.9	4.6	5.7	5.9	5.8
BAR LP 10972	6.8	4.7	5.6	5.5	5.7
ISG-36	6.8	4.5	5.7	5.7	5.6
RAD-PR62	6.7	4.4	5.8	5.7	5.6
ISG-30	6.7	4.4	5.7	5.7	5.6
A-35	6.7	4.4	5.8	5.7	5.6
MANHATTAN 6 GLR (PST-2MAGS)	6.6	4.6	5.6	5.7	5.6
PST-204D	6.6	4.6	5.7	5.6	5.6
ISG-31	6.6	4.3	5.8	5.8	5.6
GO-G37	6.6	4.3	5.8	5.7	5.6
PST-2MG7	6.5	4.5	5.6	5.7	5.6
PST-2DR9	6.6	4.6	5.5	5.5	5.6
PLAYOFF 2 (P02)	6.5	4.4	5.5	5.6	5.5
DLF LGD-3026	6.5	4.4	5.4	5.5	5.5
HAVEN (APR 2038)	6.2	4.5	5.5	5.6	5.4
BRIGHTSTAR SLT	6.4	4.1	5.6	5.6	5.4
PICK 4DFHM	6.2	4.1	5.6	5.6	5.4
BAR LP 7608	6.3	3.9	5.5	5.5	5.3
PROMINENT (CS-20)	6.1	3.6	5.8	5.7	5.3
DLF LGT 4182	6.1	3.8	5.4	5.3	5.2
GO-DHS	5.9	3.3	5.5	5.3	5.0
PINNACLE	5.6	3.2	5.2	5.2	4.8
LINN	3.0	0.3	3.7	3.6	2.6
LSD VALUE	0.8	0.8	0.8	0.8	0.8
C.V. (%)	6.9	9.7	8.4	8.3	8.2

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

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN 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. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
 2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MA1	MD1	IL1	OR1	MEAN
SR 4650 (PSRX-3701)	6.3	6.3	6.3	5.9	6.2
CL 11601	6.1	6.5	6.2	5.9	6.2
RINOVO	6.1	6.5	6.2	5.8	6.2
PIZZAZZ 2 GLR (PR 909)	6.2	6.1	6.2	5.9	6.1
EVOLUTION (S85)	6.0	6.0	6.3	5.8	6.1
PPG-PR 143	6.0	6.3	6.1	5.7	6.0
APPLE SGL (PPG-PR 140)	6.1	6.0	6.1	5.9	6.0
KARMA (PICK 10401)	6.0	6.1	6.3	5.7	6.0
GRAND SLAM GLD (PPG-PR 164)	6.1	5.9	6.2	5.9	6.0
PPG-PR 138	6.1	5.9	6.1	5.9	6.0
SIDEWAYS (PSRX-S84)	5.8	6.3	6.2	5.6	6.0
Apr-36	6.0	5.9	6.1	5.8	5.9
LTP-PR 135	5.9	6.1	6.0	5.7	5.9
CL 307	6.0	6.0	6.1	5.7	5.9
STAMINA (IS-PR 487)	6.1	5.6	6.1	5.8	5.9
PPG-PR 165	6.0	5.7	6.1	5.7	5.9
PPG-PR 121	5.8	6.0	6.0	5.6	5.9
PANGEA GLR (CL 11701)	5.9	5.6	6.1	5.7	5.9
PST-2BNS	5.9	5.6	6.0	5.8	5.8
BONNEVILLE	5.9	5.7	5.9	5.7	5.8
PRX-4GM1	5.8	5.8	5.9	5.6	5.8
STELLAR 3GL (PPG-PR 134)	5.7	5.7	5.9	5.8	5.8
WICKED (SRX-4RHD)	5.8	5.5	6.0	5.7	5.8
PREMIUM (PPG-PR 137)	5.8	5.7	5.9	5.5	5.7
ASPAIRE (IS-PR 489)	5.9	5.4	5.9	5.8	5.7
PPG-PR 136	5.8	5.5	6.0	5.6	5.7
PPG-PR 142	5.8	5.6	5.9	5.6	5.7
UNO	5.8	5.5	5.9	5.7	5.7
FASTBALL RGL (PPG-PR 133)	5.8	5.4	5.9	5.7	5.7
JR-178	5.9	5.4	5.9	5.6	5.7
BANFIELD (IS-PR 491)	5.9	5.1	6.0	5.7	5.7
IS-PR 409	6.0	5.1	5.9	5.7	5.7
FIESTA 4	5.9	5.1	5.9	5.7	5.7
RIO VISTA	5.9	5.4	6.0	5.4	5.7
PPG-PR 128	5.8	5.4	5.8	5.6	5.7
IS-PR 492	5.8	5.2	5.8	5.8	5.6
IS-PR 488	5.8	5.3	5.8	5.6	5.6
OCTANE	5.8	5.2	5.8	5.7	5.6
HAVEN (APR 2038)	5.4	5.8	5.7	5.6	5.6
SOX FAN (GM3)	5.9	5.1	5.8	5.7	5.6
BANDALORE (IS-PR 463)	5.9	5.0	5.9	5.6	5.6
MANHATTAN 6 GLR (PST-2MAGS)	5.7	5.4	5.7	5.7	5.6
SRX-4MSH	5.7	5.3	5.7	5.5	5.6
THRIVE (IS-PR 469)	5.8	4.9	5.7	5.8	5.6
PSRX-4CAGL	5.8	5.1	5.7	5.6	5.6
PILLAR (CST)	5.9	5.0	5.7	5.7	5.6
2NJK	5.6	5.3	5.8	5.5	5.6
DLF LGD-3022	5.7	5.2	5.8	5.5	5.5
PALMER V	5.8	4.9	5.7	5.8	5.5
CS-PR66	5.8	4.9	5.7	5.6	5.5
Apr-45	5.6	5.0	5.7	5.5	5.5

2012 DATA					
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	MA1	MD1	IL1	OR1	MEAN
PST-2K9	5.5	5.1	5.7	5.5	5.5
ALLANTE	5.9	4.5	5.5	5.8	5.4
JR-192	5.7	4.8	5.6	5.5	5.4
PST-2NKM	5.5	5.0	5.6	5.5	5.4
DOMINATOR (PST-2AG4)	5.6	4.7	5.6	5.5	5.3
BAR LP 10970	5.5	4.8	5.6	5.4	5.3
LTP-RAE	5.7	4.6	5.6	5.4	5.3
PST-2MG7	5.4	4.8	5.5	5.6	5.3
PICK 4DFHM	5.4	4.7	5.3	5.6	5.3
SIENNA	6.1	3.8	5.5	5.7	5.3
RAD-PR55R	5.8	4.0	5.5	5.8	5.3
PST-2ACR	5.4	4.6	5.5	5.4	5.2
PLAYOFF 2 (P02)	5.4	4.7	5.4	5.5	5.2
DLF LGD-3026	5.4	4.7	5.3	5.4	5.2
HANCOCK (IS-PR 479)	5.8	3.9	5.5	5.6	5.2
INSIGHT	5.9	3.8	5.3	5.6	5.2
PST-204D	5.3	4.5	5.4	5.4	5.2
PST-2DR9	5.3	4.6	5.4	5.3	5.1
PST-2TQL	5.4	4.3	5.4	5.4	5.1
RAD-PR62	5.4	4.1	5.3	5.6	5.1
GO-PR60	5.6	3.9	5.4	5.5	5.1
ISG-31	5.5	4.0	5.3	5.7	5.1
ISG-30	5.4	3.9	5.3	5.6	5.0
BRIGHTSTAR SLT	5.4	4.1	5.2	5.5	5.0
Apr-20	5.8	3.3	5.4	5.7	5.0
BAR LP 10969	5.5	3.7	5.3	5.5	5.0
GO-G37	5.4	3.9	5.2	5.6	5.0
ISG-36	5.4	3.8	5.2	5.4	5.0
A-35	5.3	3.7	5.2	5.5	4.9
BAR LP 10972	5.2	3.9	5.2	5.3	4.9
MACH I	5.5	3.5	5.2	5.4	4.9
PROMINENT (CS-20)	5.2	3.5	4.9	5.7	4.8
BAR LP 7608	5.2	3.4	4.9	5.4	4.7
PINNACLE	4.9	3.8	4.6	5.3	4.7
DLF LGT 4182	4.9	3.5	4.8	5.2	4.6
GO-DHS	4.8	2.8	4.5	5.2	4.3
LINN	3.2	2.2	2.8	4.0	3.1
LSD VALUE	0.8	0.8	0.8	0.8	0.8
C.V. (%)	8.4	9.7	8.5	8.6	8.8

* 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 4
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 GROWN AT TWO LOCATIONS 1/
 IN THE NORTHEAST REGION
 2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MA1	NJ2	MEAN	NAME	MA1	NJ2	MEAN
WICKED (SRX-4RHD)	6.5	5.9	6.2	SRX-4MSH	5.8	4.8	5.3
BANDALORE (IS-PR 463)	6.2	6.1	6.1	CL 11601	6.1	4.4	5.3
BANFIELD (IS-PR 491)	6.1	5.9	6.0	PST-2NKM	5.4	5.1	5.3
PANGEA GLR (CL 11701)	5.8	6.2	6.0	PST-2TQL	5.1	5.4	5.3
EVOLUTION (S85)	5.9	5.7	5.8	UNO	5.8	4.7	5.3
RIO VISTA	6.0	5.6	5.8	PST-2DR9	5.4	5.1	5.2
GRAND SLAM GLD (PPG-PR 164)	6.5	5.1	5.8	APR 2036	6.1	4.4	5.2
GO-PR60	5.8	5.7	5.7	STELLAR 3GL (PPG-PR 134)	5.8	4.6	5.2
PPG-PR 121	6.3	5.2	5.7	PREMIUM (PPG-PR 137)	5.7	4.7	5.2
APR 2445	5.6	5.8	5.7	ISG-31	5.4	4.9	5.2
IS-PR 492	6.2	5.2	5.7	LTP-RAE	5.4	4.9	5.2
RAD-PR55R	6.1	5.3	5.7	PALMER V	5.6	4.8	5.2
FIESTA 4	6.0	5.3	5.6	ISG-36	5.1	5.2	5.2
IS-PR 409	6.0	5.2	5.6	PPG-PR 143	6.0	4.3	5.2
PPG-PR 136	6.0	5.3	5.6	PILLAR (CST)	6.3	4.1	5.2
BAR LP 10970	5.8	5.4	5.6	2NJK	5.6	4.7	5.2
RINOVO	6.3	4.9	5.6	SOX FAN (GM3)	5.7	4.6	5.2
KARMA (PICK 10401)	5.7	5.4	5.6	PPG-PR 128	5.7	4.5	5.1
PPG-PR 165	6.0	5.1	5.5	RAD-PR62	5.6	4.6	5.1
A-35	5.5	5.6	5.5	PPG-PR 142	5.9	4.3	5.1
HANCOCK (IS-PR 479)	6.0	5.1	5.5	PST-2ACR	4.9	5.3	5.1
PST-2BNS	6.0	5.0	5.5	ISG-30	5.3	4.8	5.1
PST-2K9	5.6	5.4	5.5	LTP-PR 135	6.1	4.1	5.1
DOMINATOR (PST-2AG4)	5.4	5.5	5.5	MANHATTAN 6 GLR (PST-2MAGS)	5.6	4.4	5.0
APR 2320	5.7	5.2	5.5	PST-2MG7	5.3	4.7	5.0
SIDEWAYS (PSRX-S84)	5.9	5.1	5.5	IS-PR 488	5.7	4.3	5.0
STAMINA (IS-PR 487)	6.1	4.8	5.5	HAVEN (APR 2038)	5.2	4.7	5.0
THRIVE (IS-PR 469)	5.7	5.2	5.4	APPLE SGL (PPG-PR 140)	6.2	3.7	5.0
CS-PR66	5.9	4.9	5.4	DLF LGD-3026	5.3	4.6	4.9
SR 4650 (PSRX-3701)	6.1	4.7	5.4	SIENNA	6.2	3.7	4.9
OCTANE	6.0	4.9	5.4	PROMINENT (CS-20)	5.1	4.8	4.9
GO-G37	5.6	5.2	5.4	BONNEVILLE	5.4	4.4	4.9
PSRX-4CAGL	5.9	4.9	5.4	BAR LP 7608	5.6	4.2	4.9
BAR LP 10969	5.4	5.3	5.4	PLAYOFF 2 (P02)	5.3	4.4	4.9
BAR LP 10972	5.1	5.6	5.4	GO-DHS	4.6	5.0	4.8
CL 307	5.8	4.9	5.4	JR-192	5.6	4.1	4.8
MACH I	5.6	5.1	5.3	BRIGHTSTAR SLT	5.5	4.0	4.7
PRX-4GM1	5.9	4.8	5.3	PICK 4DFHM	5.4	3.9	4.7
ASPAIRE (IS-PR 489)	5.7	4.9	5.3	DLF LGT 4182	4.1	5.1	4.6
PST-204D	5.3	5.3	5.3	INSIGHT	5.6	3.2	4.4
FASTBALL RGL (PPG-PR 133)	5.7	4.9	5.3	ALLANTE	5.4	3.3	4.4
DLF LGD-3022	5.6	4.9	5.3	PINNACLE	5.6	3.1	4.3
PIZZAZZ 2 GLR (PR 909)	5.9	4.7	5.3	LINN	3.1	1.1	2.1
PPG-PR 138	6.2	4.4	5.3				
JR-178	5.7	4.8	5.3	LSD VALUE	0.7	0.8	0.5
				C.V. (%)	7.6	10.1	8.7

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

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

TABLE 5
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 GROWN AT THREE LOCATIONS 1/
 IN THE TRANSITION REGION
 2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MD1	MO1	VA1	MEAN	NAME	MD1	MO1	VA1	MEAN
EVOLUTION (S85)	6.0	6.4	6.5	6.3	PPG-PR 142	5.5	5.6	5.3	5.5
CL 11601	6.3	5.9	6.2	6.1	DLF LGD-3022	5.2	5.3	6.0	5.5
WICKED (SRX-4RHD)	5.2	5.8	7.3	6.1	PPG-PR 128	5.2	5.3	6.0	5.5
RINOVO	6.8	5.8	5.6	6.1	ASPAIRE (IS-PR 489)	5.7	5.6	5.2	5.5
PANGEA GLR (CL 11701)	6.0	6.3	5.9	6.1	BANFIELD (IS-PR 491)	5.3	5.6	5.5	5.5
SIDEWAYS (PSRX-S84)	6.1	5.5	6.6	6.1	JR-178	5.3	5.6	5.5	5.5
STELLAR 3GL (PPG-PR 134)	5.5	5.8	6.9	6.1	PSRX-4CAGL	5.5	6.0	4.8	5.4
HAVEN (APR 2038)	6.0	5.3	6.7	6.0	SOX FAN (GM3)	5.1	5.8	5.3	5.4
GRAND SLAM GLD (PPG-PR 164)	6.0	6.0	6.0	6.0	PST-2ACR	4.4	5.6	6.2	5.4
CL 307	6.0	6.0	6.0	6.0	RAD-PR62	4.0	6.0	6.2	5.4
SR 4650 (PSRX-3701)	6.4	6.0	5.6	6.0	IS-PR 488	5.4	5.4	5.5	5.4
FASTBALL RGL (PPG-PR 133)	5.4	6.2	6.3	5.9	PST-204D	4.2	5.1	6.9	5.4
PST-2BNS	5.3	5.9	6.6	5.9	PLAYOFF 2 (P02)	4.6	5.5	6.0	5.4
PPG-PR 138	5.8	6.0	6.0	5.9	GO-PR60	3.9	6.4	5.8	5.4
APR 2036	5.9	6.0	5.9	5.9	RIO VISTA	5.4	5.3	5.4	5.3
KARMA (PICK 10401)	6.1	5.7	5.9	5.9	PST-2MG7	4.6	5.5	6.0	5.3
UNO	5.4	6.1	6.2	5.9	ISG-31	4.2	6.0	5.9	5.3
PIZZAZZ 2 GLR (PR 909)	6.3	6.0	5.3	5.9	RAD-PR55R	4.3	6.1	5.6	5.3
PPG-PR 143	6.3	5.5	5.9	5.9	PILLAR (CST)	4.8	5.5	5.4	5.3
PPG-PR 121	6.1	5.5	6.0	5.9	BAR LP 10972	4.0	6.1	5.8	5.3
PST-2NKM	4.8	6.0	6.8	5.9	PST-2DR9	4.3	5.0	6.4	5.3
PST-2K9	5.1	6.0	6.4	5.8	BRIGHTSTAR SLT	3.8	5.5	6.3	5.2
MANHATTAN 6 GLR (PST-2MAGS)	5.5	5.9	6.0	5.8	GO-G37	3.8	5.7	6.2	5.2
IS-PR 492	5.3	5.8	6.2	5.8	ALLANTE	4.4	5.9	5.4	5.2
PRX-4GM1	5.9	5.6	5.8	5.8	DLF LGD-3026	5.0	5.4	5.2	5.2
APPLE SGL (PPG-PR 140)	5.7	5.6	6.0	5.8	JR-192	4.5	5.7	5.5	5.2
PPG-PR 136	5.6	5.7	5.9	5.7	PST-2TQL	4.2	5.3	6.1	5.2
THRIVE (IS-PR 469)	5.2	6.4	5.5	5.7	ISG-30	3.9	5.6	5.9	5.1
2NJK	4.9	5.5	6.7	5.7	A-35	4.0	5.8	5.6	5.1
LTP-PR 135	5.8	5.2	6.1	5.7	LTP-RAE	4.8	5.4	5.0	5.0
BONNEVILLE	5.8	5.8	5.4	5.7	PROMINENT (CS-20)	3.8	5.5	5.9	5.0
APR 2445	5.1	5.8	6.1	5.7	DLF LGT 4182	3.7	5.6	5.6	5.0
OCTANE	5.2	5.9	5.9	5.6	BAR LP 10969	3.5	5.7	5.7	4.9
PPG-PR 165	5.7	5.7	5.5	5.6	HANCOCK (IS-PR 479)	4.0	5.8	5.0	4.9
PALMER V	4.9	6.1	6.0	5.6	ISG-36	4.0	5.3	5.4	4.9
IS-PR 409	5.3	6.0	5.6	5.6	BAR LP 7608	3.3	5.4	6.0	4.9
PREMIUM (PPG-PR 137)	5.5	5.1	6.2	5.6	GO-DHS	3.0	5.9	5.5	4.8
SRX-4MSH	5.3	5.5	6.0	5.6	MACH I	3.6	5.5	5.0	4.7
CS-PR66	5.1	5.8	5.8	5.6	APR 2320	3.0	5.9	5.1	4.7
DOMINATOR (PST-2AG4)	4.5	5.7	6.4	5.5	PINNACLE	3.6	5.0	5.3	4.6
PICK 4DFHM	4.8	5.8	6.0	5.5	INSIGHT	3.7	5.3	4.8	4.6
STAMINA (IS-PR 487)	5.5	5.7	5.4	5.5	SIENNA	3.5	5.6	4.4	4.5
FIESTA 4	5.3	5.9	5.4	5.5	LINN	2.1	3.6	3.3	3.0
BAR LP 10970	4.8	5.5	6.3	5.5					
BANDALORE (IS-PR 463)	5.3	6.0	5.1	5.5	LSO VALUE	0.9	0.6	1.1	0.5
					C.V. (%)	11.6	6.7	12.0	10.3

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

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

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT FIVE LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2012 DATA

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

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
EVOLUTION (S85)	6.3	6.0	7.3	6.3	6.2	6.4
KARMA (PICK 10401)	6.0	6.4	7.3	6.1	6.0	6.4
SR 4650 (PSRX-3701)	5.5	6.5	7.4	5.6	6.4	6.3
STAMINA (IS-PR 487)	5.8	6.7	7.2	5.5	6.1	6.2
APR 2320	6.1	5.9	7.0	5.5	6.5	6.2
PANGEA GLR (CL 11701)	6.0	6.0	7.5	5.3	6.2	6.2
PIZZAZZ 2 GLR (PR 909)	5.7	6.1	7.4	5.6	6.1	6.2
CL 11601	5.8	6.6	7.0	5.5	6.0	6.2
PST-2BNS	6.1	6.1	7.0	5.7	5.7	6.1
PPG-PR 165	5.3	6.3	7.0	5.9	6.2	6.1
RIO VISTA	5.6	5.8	7.3	6.2	5.7	6.1
APPLE SGL (PPG-PR 140)	5.9	5.9	7.1	5.8	5.9	6.1
SIDEWAYS (PSRX-S84)	5.4	6.3	7.1	5.8	5.9	6.1
WICKED (SRX-4RHD)	5.9	5.8	7.3	5.7	5.8	6.1
PPG-PR 138	5.4	5.9	7.1	5.7	6.2	6.1
BANFIELD (IS-PR 491)	5.6	5.9	7.3	5.3	6.1	6.0
CL 307	5.6	5.7	7.0	6.0	5.8	6.0
JR-178	5.4	6.4	7.4	5.4	5.6	6.0
GRAND SLAM GLD (PPG-PR 164)	5.5	6.1	7.6	5.0	6.0	6.0
PREMIUM (PPG-PR 137)	5.7	5.8	7.2	5.8	5.6	6.0
PPG-PR 143	5.4	6.0	7.2	5.5	5.9	6.0
LTP-PR 135	5.1	6.4	7.0	5.4	5.9	6.0
BAR LP 10969	6.0	5.9	7.2	4.9	5.9	6.0
BONNEVILLE	5.7	6.0	7.1	5.3	5.8	6.0
APR 2036	5.5	6.0	7.1	5.5	5.6	6.0
PST-2ACR	5.7	6.2	6.9	5.1	5.9	6.0
PPG-PR 136	5.4	5.5	7.3	5.5	6.0	5.9
BANDALORE (IS-PR 463)	5.4	5.7	6.8	5.6	6.1	5.9
2NJK	5.3	6.3	7.0	5.4	5.5	5.9
DOMINATOR (PST-2AG4)	5.6	6.0	7.2	4.9	5.9	5.9
PST-2TQL	5.7	5.7	7.2	4.9	6.0	5.9
ASPAIRE (IS-PR 489)	5.7	5.7	6.7	5.2	6.2	5.9
APR 2445	5.3	6.0	6.8	5.0	6.4	5.9
PPG-PR 121	5.7	5.3	6.9	5.7	5.9	5.9
STELLAR 3GL (PPG-PR 134)	5.8	6.0	6.9	4.9	5.9	5.9
DLF LGD-3022	5.6	5.5	7.3	5.2	5.7	5.9
FIESTA 4	5.4	5.7	7.3	5.1	5.8	5.9
PPG-PR 128	5.4	5.9	7.0	5.6	5.4	5.9
SOX FAN (GM3)	4.9	6.0	7.2	5.2	6.0	5.9
OCTANE	5.5	5.9	7.1	5.2	5.6	5.8
IS-PR 409	4.7	5.5	7.4	5.5	6.1	5.8
PALMER V	5.0	5.8	7.0	5.0	6.4	5.8
RINOVO	5.2	6.0	7.0	5.2	5.7	5.8
JR-192	4.8	6.3	7.1	5.3	5.6	5.8
PPG-PR 142	5.3	5.8	6.9	5.5	5.7	5.8

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 (CONT'D)
 GROWN AT FIVE LOCATIONS 1/
 IN THE NORTH CENTRAL REGION
 2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
UNO	5.1	6.2	7.1	5.0	5.6	5.8
PST-2NKM	5.6	5.6	7.0	5.1	5.7	5.8
FASTBALL RGL (PPG-PR 133)	5.5	5.5	6.9	5.4	5.8	5.8
PILLAR (CST)	5.7	5.5	7.0	5.3	5.5	5.8
PST-2K9	5.6	5.6	6.9	4.9	6.1	5.8
SIENNA	4.6	5.5	7.7	5.5	5.7	5.8
IS-PR 492	5.6	5.5	7.0	4.9	6.0	5.8
THRIVE (IS-PR 469)	5.7	5.6	7.0	4.6	5.8	5.8
SRX-4MSH	5.0	6.0	7.3	4.7	5.9	5.7
GO-PR60	5.5	5.3	7.0	5.1	5.8	5.7
HANCOCK (IS-PR 479)	5.0	5.5	7.3	5.0	5.8	5.7
PST-2MG7	6.1	6.0	6.5	4.5	5.5	5.7
ALLANTE	5.0	5.6	7.4	4.7	5.9	5.7
PRX-4GM1	5.2	6.0	6.8	4.9	5.7	5.7
LTP-RAE	5.0	5.6	7.2	5.0	5.9	5.7
PST-204D	5.7	5.4	6.7	4.9	5.8	5.7
CS-PR66	5.2	5.1	7.1	5.1	5.9	5.7
IS-PR 488	4.7	5.9	7.0	4.9	5.9	5.7
BAR LP 10970	5.3	5.7	7.1	4.8	5.3	5.7
RAD-PR62	6.0	4.9	6.8	4.7	5.8	5.6
RAD-PR55R	5.4	5.1	7.5	4.3	5.9	5.6
INSIGHT	4.3	5.2	7.6	4.8	6.1	5.6
HAVEN (APR 2038)	5.6	5.6	7.0	3.9	5.8	5.6
PST-2DR9	5.5	5.4	6.5	4.9	5.3	5.5
PSRX-4CAGL	4.7	5.6	7.1	4.5	5.7	5.5
MACH I	5.0	4.9	6.9	4.9	5.7	5.5
ISG-36	5.5	5.1	6.7	4.6	5.5	5.5
BAR LP 10972	5.3	5.4	6.6	4.8	5.3	5.5
ISG-30	5.6	5.0	6.8	4.7	5.2	5.5
MANHATTAN 6 GLR (PST-2MAGS)	4.6	6.0	6.9	4.0	5.9	5.5
PLAYOFF 2 (P02)	5.2	5.4	6.7	4.5	5.4	5.4
BRIGHTSTAR SLT	4.9	5.6	6.9	4.0	5.8	5.4
GO-G37	5.2	5.0	6.2	4.6	5.8	5.4
ISG-31	5.3	4.9	6.5	4.4	5.6	5.3
A-35	5.5	4.9	6.8	4.1	5.4	5.3
BAR LP 7608	5.3	4.7	6.8	3.7	5.9	5.3
PICK 4DFHM	5.2	5.0	6.6	3.9	5.6	5.3
PROMINENT (CS-20)	6.0	4.8	6.6	3.1	5.4	5.2
DLF LGD-3026	4.6	5.2	6.7	3.8	5.6	5.2
DLF LGT 4182	5.9	4.8	6.1	3.9	5.4	5.2
PINNACLE	5.2	4.9	5.7	2.9	5.5	4.9
GO-DHS	5.3	4.7	5.7	3.1	5.4	4.8
LINN	4.1	2.9	1.5	1.2	3.7	2.7
LSD VALUE	1.2	0.8	0.6	0.9	0.5	0.4
C.V. (%)	13.6	8.5	5.4	10.7	5.4	8.8

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

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

Taken from the 2010 Perennial Ryegrass test, 12 data report with permission from NTEP
 TABLE 7. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
 MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
 2012 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
ISG-31	7.7	8.0	8.0	8.0	6.7	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.9
ISG-36	7.3	8.0	8.0	8.0	7.0	8.0	7.7	8.0	7.7	7.7	7.7	7.7	7.7
PROMINENT (CS-20)	7.0	8.0	8.0	8.0	6.0	8.0	8.0	8.0	7.7	7.7	7.7	7.7	7.6
GO-G37	7.0	8.0	8.0	8.0	5.7	7.3	8.0	8.0	8.0	7.3	7.3	7.7	7.5
A-35	6.7	7.7	8.0	8.0	6.3	7.7	8.0	7.7	7.7	7.3	7.3	7.3	7.5
ISG-30	6.7	7.7	7.7	7.7	6.7	7.7	7.7	7.3	7.7	7.0	7.0	7.7	7.4
FIESTA 4	7.0	7.0	7.3	8.0	7.0	7.3	7.0	7.0	7.7	7.3	7.3	7.3	7.3
THRIVE (IS-PR 469)	7.3	7.3	7.0	7.3	7.7	7.3	7.0	7.3	7.0	7.3	7.3	7.0	7.3
HANCOCK (IS-PR 479)	7.0	8.0	7.7	7.7	7.0	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.2
CS-PR66	6.0	7.0	7.3	7.3	7.0	7.3	7.3	7.3	7.3	7.3	7.3	7.7	7.2
RAD-PR55R	7.0	7.3	7.0	7.3	6.3	7.0	7.7	7.3	7.7	7.0	7.0	7.0	7.1
BONNEVILLE	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PIZZAZZ 2 GLR (PR 909)	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PRX-4GM1	7.0	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
APR 2445	7.0	7.0	7.0	7.7	6.0	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
ASPAIRE (IS-PR 489)	7.0	7.3	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
BANFIELD (IS-PR 491)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
CL 307	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.3	7.0	7.0	7.0	7.0
EVOLUTION (S85)	7.3	7.0	7.0	7.0	6.3	7.3	7.0	7.3	7.0	7.0	7.0	6.7	7.0
FASTBALL RGL (PPG-PR 133)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
GO-DHS	5.7	8.0	8.0	7.7	5.0	6.3	7.3	8.0	7.0	7.0	7.0	7.0	7.0
IS-PR 488	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
IS-PR 492	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PANGEA GLR (CL 11701)	6.7	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PILLAR (CST)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PPG-PR 128	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PSRX-4CAGL	6.7	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
RINOVO	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
SR 4650 (PSRX-3701)	6.3	7.0	7.0	7.0	7.0	7.3	7.0	7.3	7.0	7.0	7.0	7.0	7.0
BANDALORE (IS-PR 463)	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
DLF LGD-3022	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	7.0
KARMA (PICK 10401)	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.0	7.0
LTP-RAE	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PALMER V	6.7	7.0	7.0	7.0	7.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0
PPG-PR 143	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
SIDEWAYS (PSRX-S84)	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
SOX FAN (GM3)	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
UNO	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
GRAND SLAM GLD (PPG-PR 164)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	7.0
JR-178	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
STAMINA (IS-PR 487)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	6.9
STELLAR 3GL (PPG-PR 134)	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
GO-PR60	6.7	7.3	7.0	7.3	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
IS-PR 409	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
PREMIUM (PPG-PR 137)	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
CL 11601	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.9

TABLE 7 (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
 2012 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
PICK 4DFHM	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
PPG-PR 121	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.9
PPG-PR 136	6.7	7.0	7.3	7.0	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	6.9
PPG-PR 138	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.9
PPG-PR 165	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.9
RIO VISTA	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
APPLE SGL (PPG-PR 140)	6.3	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
BAR LP 10972	6.7	7.0	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
DOMINATOR (PST-2AG4)	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.9
MACH I	5.7	7.0	7.0	7.7	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.9
OCTANE	7.0	6.7	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
BAR LP 10970	6.3	6.7	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
WICKED (SRX-4RHD)	6.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.9
APR 2036	6.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.3	6.9
BAR LP 10969	6.3	7.0	7.0	7.0	6.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.9
LTP-PR 135	6.7	6.7	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.9
MANHATTAN 6 GLR (PST-2MAGS)	6.0	6.7	7.0	7.0	6.7	7.0	7.0	7.3	6.7	7.0	7.0	7.0	6.9
PPG-PR 142	6.3	6.3	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	6.9
SIENNA	7.0	7.0	7.0	7.0	6.7	7.0	6.3	6.3	7.0	7.0	7.0	7.0	6.9
ALLANTE	6.0	6.7	7.0	6.7	6.7	6.7	7.0	6.7	7.0	7.3	7.3	7.0	6.8
DLF LGD-3026	6.7	6.7	7.0	7.0	6.7	7.0	7.0	7.0	6.3	7.0	7.0	6.7	6.8
JR-192	5.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.8
PST-2BNS	6.0	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.8
PST-2MG7	6.3	6.7	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.8
PST-204D	6.0	7.0	7.0	7.0	6.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0	6.8
PST-2ACR	6.3	7.0	7.0	7.0	6.0	7.0	7.0	7.0	6.7	7.0	7.0	6.7	6.8
SRX-4MSH	6.3	7.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	7.0	7.0	6.7	6.8
INSIGHT	6.7	7.0	7.0	7.0	6.7	7.0	6.3	6.0	7.0	7.0	7.0	7.0	6.8
RAD-PR62	6.0	7.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	6.8
PLAYOFF 2 (P02)	6.0	6.7	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	7.0	6.3	6.8
APR 2320	6.3	7.0	6.7	7.0	6.3	7.0	7.0	6.7	6.7	7.0	7.0	6.7	6.8
PST-2DR9	6.3	7.0	7.0	7.0	5.7	6.7	7.0	7.0	7.0	7.0	7.0	6.7	6.8
PST-2NKM	6.0	6.3	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.8
PST-2TQL	5.7	7.0	7.3	7.0	6.0	6.7	7.0	7.0	7.0	7.0	7.0	6.7	6.8
2NJK	6.0	7.0	7.0	6.7	6.3	6.7	7.0	7.0	7.0	7.0	7.0	6.3	6.8
DLF LGT 4182	6.7	7.0	7.0	7.0	5.7	6.3	7.0	7.0	6.3	7.0	7.0	7.0	6.8
HAVEN (APR 2038)	6.0	6.7	7.0	7.0	6.0	6.7	7.0	6.7	7.0	7.0	7.0	7.0	6.8
PST-2K9	5.3	6.7	7.0	7.0	6.3	6.7	7.0	7.3	7.0	7.0	7.0	6.7	6.8
BRIGHTSTAR SLT	6.3	6.7	6.3	6.7	6.0	6.3	7.0	7.0	7.0	7.0	7.0	6.7	6.7
BAR LP 7608	5.7	6.7	6.3	6.3	6.0	6.3	6.3	6.7	6.0	6.3	6.3	6.0	6.3
PINNACLE	6.0	6.0	6.0	6.0	5.7	5.7	6.3	6.0	6.3	6.0	6.0	6.0	6.0
LINN	6.0	6.0	5.0	5.0	5.0	5.0	6.0	6.0	5.3	5.0	5.0	6.0	5.4
LSD VALUE	0.9	0.5	0.3	0.4	0.7	0.5	0.3	0.4	0.5	0.3	0.3	0.5	0.2
C.V. (%)	8.9	4.6	2.6	3.1	6.6	4.6	2.8	3.4	4.7	2.8	2.8	4.8	1.9

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 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 TABLE 8. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
 MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
 2012 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
BANFIELD (IS-PR 491)	5.3	5.7	6.0	5.3	6.0	5.3	5.0	6.0	8.0	7.0	7.0	6.7	6.1
ASPAIRE (IS-PR 489)	5.7	5.3	6.0	6.3	6.0	5.3	5.0	5.3	7.0	7.3	7.0	6.3	6.1
RINOVO	6.0	6.0	6.0	6.3	6.3	5.0	5.0	5.3	6.7	6.7	6.7	6.3	6.0
FASTBALL RGL (PPG-PR 133)	5.7	5.3	6.0	6.0	5.0	5.7	5.0	5.7	7.0	7.0	6.7	6.3	5.9
IS-PR 409	5.3	5.3	5.7	5.3	6.0	5.0	5.0	6.3	7.3	7.0	6.7	6.0	5.9
PIZZAZZ 2 GLR (PR 909)	5.3	5.3	5.7	6.3	6.3	5.3	5.0	5.3	7.0	6.7	6.3	6.3	5.9
PST-2BNS	5.3	5.3	5.3	6.7	6.0	5.7	5.0	5.7	7.0	6.3	6.3	6.3	5.9
SIENNA	5.3	4.7	5.7	6.7	7.0	5.3	5.0	5.3	7.0	6.3	6.0	6.3	5.9
IS-PR 488	5.3	4.7	5.7	6.3	5.3	5.3	5.0	6.0	7.0	7.0	6.7	6.0	5.9
ISG-30	5.3	5.7	6.0	5.7	5.3	5.3	5.0	5.3	7.3	6.3	6.3	6.7	5.9
THRIVE (IS-PR 469)	5.3	5.3	5.3	6.0	5.7	5.0	5.0	5.7	7.3	6.7	6.7	6.3	5.9
FIESTA 4	5.3	5.3	5.3	5.3	6.0	5.0	5.0	5.7	7.0	6.7	7.0	6.3	5.8
PPG-PR 128	5.0	5.3	5.3	6.0	5.3	5.3	5.0	5.7	7.3	7.0	6.7	6.0	5.8
WICKED (SRX-4RHD)	5.3	5.3	5.3	6.0	5.7	5.0	5.0	5.3	7.0	7.0	6.7	6.0	5.8
PREMIUM (PPG-PR 137)	5.3	5.7	5.3	5.3	5.0	5.3	5.0	5.3	7.3	7.0	6.7	6.0	5.8
APPLE SGL (PPG-PR 140)	5.0	5.0	5.3	6.0	6.3	5.7	4.7	5.3	7.0	6.7	6.0	6.3	5.8
BONNEVILLE	5.0	5.3	5.7	5.7	5.7	5.0	5.0	5.3	7.0	6.7	6.7	6.3	5.8
DLF LGD-3026	5.3	5.7	6.0	5.7	5.0	5.0	5.0	5.3	7.0	6.7	6.3	6.3	5.8
GRAND SLAM GLD (PPG-PR 164)	5.0	5.3	5.7	5.7	5.0	5.3	5.0	5.3	7.3	7.0	6.7	6.0	5.8
IS-PR 492	5.7	5.3	5.7	5.0	5.3	5.3	4.7	5.7	7.0	7.0	6.7	6.0	5.8
MACH I	5.3	5.3	5.7	5.7	5.3	5.3	5.0	5.7	7.3	6.7	6.3	5.7	5.8
PPG-PR 121	5.3	5.7	5.7	5.7	4.7	5.0	5.0	5.7	7.0	7.0	6.3	6.3	5.8
PST-2DR9	5.3	5.3	5.3	6.0	6.0	5.0	5.0	5.7	7.0	6.3	6.0	6.3	5.8
RAD-PR55R	5.7	5.7	5.7	5.0	6.0	5.7	5.0	5.3	7.0	6.3	6.3	5.7	5.8
BANDALORE (IS-PR 463)	5.0	5.0	5.3	5.7	5.7	5.0	5.0	5.7	7.3	7.0	6.3	6.0	5.8
CL 307	5.0	5.0	5.7	5.7	5.0	5.7	5.0	5.7	7.3	6.7	6.3	6.0	5.8
PST-204D	5.3	5.3	5.3	6.0	6.3	5.0	5.0	5.3	6.7	6.3	6.3	6.0	5.8
PPG-PR 143	5.3	5.3	5.7	6.0	5.3	5.0	5.0	4.7	7.0	6.7	6.3	6.3	5.7
PSRX-4CAGL	5.7	5.7	6.0	6.0	5.7	5.0	4.7	5.0	6.3	6.3	6.0	6.3	5.7
DLF LGD-3022	5.3	5.3	5.7	5.7	5.0	5.0	5.0	5.0	7.0	6.7	6.7	6.3	5.7
PPG-PR 138	5.0	4.7	5.3	5.7	5.7	5.3	5.0	5.7	7.0	7.0	6.3	6.0	5.7
OCTANE	5.3	5.3	5.3	5.7	5.7	5.3	5.0	5.0	6.7	6.7	6.0	6.3	5.7
PPG-PR 165	5.3	5.0	5.3	6.3	4.7	5.3	4.7	5.7	7.0	6.7	6.3	6.0	5.7
KARMA (PICK 10401)	5.3	5.0	5.3	5.7	5.7	5.3	5.0	5.3	7.0	6.7	6.3	5.7	5.7
LTP-RAE	5.0	5.0	5.7	5.0	6.0	5.3	4.7	5.3	7.3	6.7	6.3	6.0	5.7
PALMER V	5.3	5.3	5.7	6.0	6.0	5.0	4.7	5.0	6.3	6.3	6.3	6.3	5.7
STELLAR 3GL (PPG-PR 134)	5.0	5.3	5.3	5.0	5.3	5.7	5.0	5.7	7.0	7.0	6.0	6.0	5.7
APR 2036	5.0	5.0	5.7	6.0	5.7	5.0	5.0	5.7	7.3	6.0	6.0	5.7	5.7
EVOLUTION (S85)	5.0	4.7	5.7	5.3	5.7	5.0	5.0	5.3	7.3	7.0	6.3	5.7	5.7
INSIGHT	5.0	4.7	5.7	6.3	6.3	5.0	5.0	5.0	7.0	6.0	6.0	6.0	5.7
RIO VISTA	5.0	5.3	5.7	5.0	4.7	5.0	5.0	6.0	7.0	6.7	6.7	6.0	5.7
SOX FAN (GM3)	5.3	5.3	5.3	5.3	5.3	5.0	5.0	5.3	6.7	6.7	6.3	6.3	5.7
SR 4650 (PSRX-3701)	5.0	5.0	6.0	5.7	5.3	5.0	5.0	5.3	7.0	6.3	6.0	6.3	5.7
HANCOCK (IS-PR 479)	5.0	5.3	6.0	5.3	5.3	5.0	5.0	5.7	7.0	6.0	6.0	6.0	5.6
STAMINA (IS-PR 487)	5.0	5.3	5.3	5.7	6.7	5.3	4.7	5.0	6.7	6.3	6.0	5.7	5.6
PROMINENT (CS-20)	5.3	5.3	6.0	5.3	5.0	5.0	5.0	5.7	6.7	6.3	6.0	6.0	5.6

TABLE 8. (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
 2012 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
A-35	5.3	5.0	5.7	5.0	4.7	5.7	5.0	5.3	7.0	6.3	6.7	5.7	5.6
ALLANTE	5.0	4.7	5.3	6.3	6.7	5.3	4.7	5.3	6.7	6.0	6.0	5.3	5.6
HAVEN (APR 2038)	5.3	5.0	5.3	5.7	6.0	5.0	5.0	5.3	6.7	6.0	6.0	6.0	5.6
PANGEA GLR (CL 11701)	5.3	5.3	5.7	4.7	5.3	5.0	5.0	5.7	7.0	6.7	6.3	5.3	5.6
PRX-4GM1	5.3	4.7	5.3	5.3	5.3	5.0	5.0	5.7	7.0	6.7	6.0	6.0	5.6
LTP-PR 135	5.0	5.0	5.0	5.3	4.7	5.0	5.0	5.7	7.7	7.0	6.3	5.7	5.6
MANHATTAN 6 GLR (PST-2MAGS)	5.0	5.0	5.3	5.7	5.3	5.0	5.0	5.7	7.0	6.7	6.0	5.7	5.6
PPG-PR 136	5.0	5.0	5.0	5.0	5.3	5.3	5.0	5.7	7.3	6.7	6.0	6.0	5.6
BAR LP 10970	5.0	4.7	5.3	6.0	5.7	5.7	5.0	5.3	6.7	6.3	6.0	5.3	5.6
JR-178	5.0	5.0	5.3	5.7	5.3	5.0	4.7	5.0	7.0	7.0	6.3	5.7	5.6
PPG-PR 142	5.3	4.7	5.3	5.7	5.7	5.0	5.0	4.7	7.0	6.3	6.7	5.7	5.6
CL 11601	5.0	5.0	5.3	5.3	6.3	5.0	5.0	5.0	7.0	6.0	6.0	5.7	5.6
CS-PR66	5.3	5.3	5.7	5.3	5.7	5.0	5.0	4.7	6.7	6.3	6.0	5.7	5.6
PLAYOFF 2 (P02)	5.0	5.3	5.3	5.3	5.7	5.0	4.7	5.3	7.0	6.0	6.0	6.0	5.6
ISG-31	5.3	5.3	5.7	5.0	5.7	5.0	5.0	5.0	6.3	6.0	6.0	6.0	5.5
PST-2MG7	5.0	4.7	5.7	5.0	5.0	5.0	5.0	6.0	7.0	6.3	6.0	5.7	5.5
ISG-36	5.3	5.0	5.3	5.0	4.7	5.7	5.0	5.3	6.7	6.7	6.3	5.0	5.5
PILLAR (CST)	5.0	5.3	5.3	5.7	5.0	4.7	4.7	5.3	6.7	6.7	6.3	5.3	5.5
SIDEWAYS (PSRX-S84)	5.0	5.3	5.3	5.3	4.7	5.0	5.0	5.0	6.7	6.3	6.0	6.0	5.5
DOMINATOR (PST-2AG4)	5.3	5.0	5.3	5.3	4.7	5.0	5.0	5.3	7.0	6.3	6.0	5.3	5.5
UNO	5.3	5.0	5.3	5.7	5.0	5.0	5.0	5.0	6.7	6.0	6.0	5.3	5.4
GO-G37	5.3	5.0	5.3	5.0	4.3	5.3	4.7	5.7	7.0	6.3	6.0	5.3	5.4
2NJK	5.0	5.0	5.0	5.7	4.3	5.0	5.0	5.3	7.0	6.0	6.0	5.7	5.4
DLF LGT 4182	5.0	5.0	5.0	5.7	5.0	5.0	5.0	5.3	6.7	5.7	5.7	6.0	5.4
PICK 4DFHM	5.0	5.0	5.0	5.3	4.7	5.0	5.0	5.0	6.7	6.0	6.0	6.0	5.4
SRX-4MSH	5.0	4.7	5.3	5.0	5.7	5.0	4.7	5.0	6.7	6.0	6.0	5.7	5.4
APR 2320	5.0	4.7	5.0	4.7	5.0	5.0	5.0	5.7	7.0	6.3	6.0	5.0	5.4
APR 2445	5.0	5.0	5.0	5.3	4.7	5.0	5.0	5.0	6.7	6.0	6.0	5.3	5.3
GO-PR60	5.0	5.0	5.0	5.3	4.3	5.0	5.0	5.0	6.3	6.3	6.0	5.7	5.3
PST-2NKM	5.0	4.7	5.0	5.0	5.0	5.0	4.7	5.3	6.7	6.0	6.0	5.7	5.3
PST-2ACR	5.0	4.7	5.3	5.0	4.7	5.0	4.7	5.0	6.7	6.3	6.0	5.3	5.3
PST-2K9	5.0	4.7	5.0	5.0	4.7	5.0	4.7	5.0	6.7	6.0	6.0	6.0	5.3
PST-2TQL	5.0	4.7	5.0	5.3	5.3	5.3	4.3	5.0	6.3	6.0	5.7	5.7	5.3
BAR LP 10969	5.0	4.7	5.0	4.7	4.7	5.0	5.0	5.0	6.7	6.0	5.7	5.7	5.3
BAR LP 10972	4.7	4.3	5.0	5.7	5.0	5.0	5.0	5.0	6.7	6.0	6.0	4.3	5.2
RAD-PR62	4.7	4.7	4.7	4.3	4.0	5.0	5.0	5.7	7.0	6.0	6.0	5.3	5.2
BAR LP 7608	5.0	4.7	5.3	5.0	4.7	5.0	4.3	5.3	6.7	5.0	5.7	5.3	5.2
BRIGHTSTAR SLT	5.0	4.3	5.0	5.7	5.0	5.0	4.3	5.3	6.3	5.0	5.3	5.7	5.2
GO-DHS	5.0	5.0	5.0	4.3	4.0	5.7	4.3	5.3	6.3	5.7	5.3	5.3	5.1
JR-192	4.7	4.3	4.7	5.3	4.3	5.3	4.7	5.0	6.0	6.0	5.7	5.3	5.1
PINNACLE	4.7	4.7	4.7	4.7	4.3	5.0	4.0	4.3	6.0	5.0	5.0	5.3	4.8
LINN	4.3	4.3	4.3	3.7	3.7	4.0	4.0	4.7	6.3	5.0	5.7	5.3	4.6
LSD VALUE	0.7	0.9	0.8	1.2	1.6	0.6	0.5	0.8	0.9	0.7	0.7	0.9	0.4
C.V. (%)	8.3	11.0	9.2	13.6	18.6	6.9	5.8	9.3	8.1	6.9	6.7	9.4	4.7

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

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

TABLE 9. Taken from the 2010 Perennial Ryegrass test, 12 data report with permission from NTEP
 MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 AT RIVERSIDE (TRAFFIC STUDY), CA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT LIVING GROUND COVER			PERCENT CRABGRASS	QUALITY RATINGS												MEAN
	MARCH	MAY	JULY		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BANDALORE (IS-PR 463)	63.3	80.0	86.7	8.3	4.3	3.3	3.3	3.7	5.0	5.0	6.0	5.7	6.0	4.0	4.0	3.7	4.5
PICK 10401	63.3	80.0	93.3	7.3	3.7	3.0	3.3	3.3	5.0	4.7	6.7	6.0	6.0	4.0	4.0	4.0	4.5
BONNEVILLE	63.3	83.3	92.7	13.3	4.0	3.3	3.3	4.0	4.3	5.0	6.3	6.0	6.0	4.0	4.0	3.0	4.4
DLF LGD-3022	56.7	76.7	86.7	13.3	4.0	3.7	3.0	3.0	4.3	4.3	5.7	6.0	5.7	4.0	4.0	4.0	4.3
BANFIELD (IS-PR 491)	63.3	73.3	85.0	11.7	4.3	3.3	3.3	3.3	4.3	4.7	5.7	6.0	5.0	3.7	3.7	3.7	4.3
PSRX-4CAGL	60.0	80.0	91.7	11.7	3.7	3.0	3.3	3.3	4.7	4.7	6.3	6.0	5.7	3.7	3.7	3.7	4.3
S85	60.0	76.7	86.7	4.7	4.0	3.3	3.3	3.7	4.3	4.3	5.7	5.7	5.3	3.7	3.7	4.3	4.3
FIESTA 4	56.7	76.7	86.0	8.3	3.7	3.3	3.3	3.7	4.0	4.3	5.7	5.3	4.7	4.3	4.3	3.7	4.2
OCTANE	63.3	80.0	86.7	8.3	4.3	3.3	3.7	3.3	3.7	4.7	5.7	5.7	5.7	3.3	3.3	3.3	4.2
PST-204D	66.7	73.3	83.3	11.7	4.7	3.7	3.7	3.0	3.7	4.0	5.3	5.7	6.0	3.3	3.3	3.7	4.2
PST-2BNS	63.3	76.7	93.3	5.7	4.0	3.0	3.3	3.3	4.0	4.3	6.7	6.0	5.3	3.7	3.7	3.3	4.2
PST-2MG7	60.0	70.0	85.0	8.0	4.0	3.0	3.3	3.0	3.7	4.0	5.7	5.7	6.0	4.3	4.3	3.7	4.2
2NJK	63.3	76.7	86.7	6.7	4.3	3.3	3.3	3.3	4.0	4.0	5.7	5.7	6.0	3.3	3.3	3.3	4.1
GO-G37	60.0	66.7	83.3	15.0	4.3	3.3	3.3	3.0	3.3	4.3	5.3	5.7	5.7	3.7	3.7	3.3	4.1
THRIVE (IS-PR 469)	56.7	70.0	83.3	11.7	4.0	3.3	3.0	3.7	4.0	4.7	5.3	5.3	6.0	3.3	3.3	3.3	4.1
ASPAIRE (IS-PR 489)	53.3	70.0	86.7	10.7	4.0	2.7	3.0	2.7	3.7	4.0	5.7	5.7	6.0	4.0	4.0	3.3	4.1
JR-192	60.0	73.3	83.3	10.7	4.0	3.3	3.3	3.7	3.3	4.0	5.3	5.7	5.7	3.7	3.7	3.3	4.1
PSRX-3701	46.7	76.7	85.0	10.7	3.3	2.7	2.7	3.0	4.3	4.3	5.7	5.7	5.7	4.0	4.0	3.7	4.1
SRX-4MSH	60.0	70.0	85.0	2.3	3.7	3.0	3.3	3.3	4.0	3.7	5.7	6.0	6.0	3.3	3.3	3.7	4.1
UNO	53.3	70.0	85.0	11.7	3.3	3.0	3.3	3.3	3.7	4.0	5.3	5.7	5.3	4.0	4.0	3.7	4.1
BRIGHTSTAR SLT	53.3	73.3	83.3	5.7	3.7	3.3	3.0	3.3	3.7	3.7	5.3	5.3	5.7	3.7	3.7	3.7	4.0
CL 307	60.0	80.0	83.3	7.3	4.0	3.3	3.3	3.3	4.0	3.7	5.3	5.3	5.3	3.7	3.7	3.3	4.0
GM3	53.3	73.3	85.0	11.7	4.0	3.3	3.0	3.0	3.7	4.7	5.7	5.3	5.7	3.3	3.3	3.0	4.0
HANCOCK (IS-PR 479)	53.3	73.3	90.0	10.7	3.7	3.0	3.0	3.0	3.7	4.0	6.0	6.0	5.7	3.7	3.7	3.0	4.0
JR-178	50.0	73.3	80.0	9.0	3.7	3.0	2.7	3.3	4.0	4.3	5.0	5.3	5.3	4.0	4.0	3.7	4.0
PALMER V	56.7	73.3	80.0	9.0	3.7	3.3	3.0	3.3	3.7	4.3	5.0	5.7	5.3	3.7	3.7	3.7	4.0
PSRX-S84	53.3	73.3	78.3	8.3	3.7	3.3	3.0	3.0	4.3	4.3	5.0	5.0	5.7	3.7	3.7	3.3	4.0
PST-2NKM	53.3	70.0	83.3	5.7	3.7	3.3	3.0	3.3	3.7	3.3	5.3	5.3	5.3	4.0	4.0	3.3	4.0
PST-2TQL	56.7	73.3	86.7	15.0	3.7	3.0	3.0	3.0	3.7	3.3	5.7	5.7	5.7	3.7	3.7	3.7	4.0
RINOVO	50.0	70.0	85.0	20.0	3.7	3.3	3.0	3.0	4.0	4.3	5.7	5.0	5.7	3.3	3.3	3.7	4.0
BAR LP 10970	56.7	76.7	85.0	9.0	3.7	3.3	3.0	3.3	3.7	4.0	5.7	5.3	5.3	3.3	3.3	3.3	3.9
BAR LP 10972	53.3	71.7	83.3	8.3	3.3	3.0	3.0	3.0	3.7	4.0	5.3	5.7	5.7	3.3	3.3	3.7	3.9
CL 11701	63.3	80.0	85.0	10.0	4.0	3.7	3.3	3.7	4.3	4.7	5.3	5.0	4.7	2.7	2.7	2.7	3.9
IS-PR 488	53.3	70.0	81.7	13.3	3.7	3.0	3.0	3.0	3.3	4.0	5.0	5.7	5.7	3.7	3.7	3.3	3.9
ISG-36	60.0	73.3	83.3	7.3	3.7	3.3	3.3	3.3	3.7	4.0	5.3	5.7	4.7	3.3	3.3	3.0	3.9
LTP-RAE	40.0	73.3	81.7	8.3	3.3	3.0	2.3	3.0	4.3	4.0	5.3	5.0	5.3	4.0	4.0	3.7	3.9
MACH I	56.7	70.0	81.7	13.3	4.0	3.0	3.0	3.0	3.3	4.0	5.3	5.7	6.0	3.3	3.3	3.0	3.9
PICK 4DFHM	53.3	70.0	86.7	6.7	3.7	2.7	3.0	3.0	3.3	4.0	5.7	5.7	6.0	3.0	3.0	3.3	3.9
PPG-PR 142	50.0	70.0	76.7	6.7	3.3	3.3	2.7	3.3	4.0	3.7	4.7	5.7	5.3	3.3	3.3	3.7	3.9
PPG-PR 143	53.3	70.0	81.7	7.3	3.7	3.3	3.0	3.3	3.3	4.0	5.3	5.3	5.7	3.3	3.3	3.0	3.9
PRX-4GM1	53.3	73.3	86.7	10.0	3.7	2.7	3.0	2.7	3.7	4.0	5.7	5.3	6.0	3.7	3.7	3.0	3.9
CS-PR66	46.7	73.3	80.0	13.3	3.7	3.3	2.7	2.7	3.7	3.3	5.0	5.7	5.7	3.7	3.7	3.0	3.8
PILLAR (CST)	46.7	66.7	76.7	6.3	3.3	3.0	2.3	3.3	3.3	4.0	4.7	5.3	5.3	3.7	3.7	3.0	3.8
GO-PR60	53.3	73.3	76.7	6.7	4.0	3.3	3.0	3.0	3.3	4.0	4.7	5.3	5.7	3.3	3.3	3.0	3.8
STAMINA (IS-PR 487)	46.7	73.3	80.0	7.3	3.7	3.0	2.7	3.0	3.7	3.7	5.0	5.0	5.7	3.3	3.3	3.3	3.8
IS-PR 492	46.7	66.7	80.0	7.3	3.7	2.7	2.7	3.0	3.7	3.7	5.0	5.7	5.3	3.7	3.7	3.0	3.8
PREMIUM (PPG-PR 13 7)	50.0	70.0	83.3	9.0	3.7	3.0	2.7	3.0	3.7	3.3	5.3	5.0	5.3	3.7	3.7	3.3	3.8

TABLE 9. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT RIVERSIDE (TRAFFIC STUDY), CA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT MARCH	LIVING GROUND MAY	COVER JULY	PERCENT CRABGRASS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-PR 138	50.0	73.3	80.0	7.3	3.7	3.3	2.7	3.3	3.3	3.7	5.0	5.3	5.0	3.3	3.3	3.3	3.8
GRAND SLAM GLD (PPG-PR 164)	50.0	66.7	78.3	8.3	3.7	3.0	2.7	3.0	3.3	3.7	5.0	5.3	5.3	3.3	3.3	3.3	3.8
PST-2ACR	53.3	73.3	83.3	7.0	3.3	3.0	2.7	3.3	3.7	4.0	5.3	5.7	5.0	3.3	3.3	2.7	3.8
PST-2AG4	56.7	73.3	81.7	7.3	3.3	3.0	3.0	3.0	3.3	3.7	5.3	5.3	5.0	3.3	3.3	3.3	3.8
PST-2DR9	50.0	73.3	76.7	8.3	3.7	3.3	2.7	3.3	3.3	4.0	4.7	5.3	5.3	3.3	3.3	3.3	3.8
PST-2MAGS	50.0	70.0	83.3	15.0	3.3	3.0	2.7	3.0	3.7	4.0	5.3	5.3	5.3	3.3	3.3	3.0	3.8
APR 2445	46.7	70.0	80.0	10.7	3.3	3.0	2.7	3.0	3.7	4.0	5.0	5.0	4.7	3.3	3.3	3.0	3.7
GO-DHS	50.0	68.3	83.3	10.0	3.3	3.0	2.7	2.7	3.0	3.7	5.3	5.7	5.3	3.3	3.3	2.7	3.7
INSIGHT	43.3	60.0	76.7	10.7	3.3	2.7	2.3	3.0	3.0	3.3	4.7	4.7	5.3	4.0	4.0	3.7	3.7
STELLAR 3GL (PPG-PR 134)	50.0	70.0	80.0	5.7	3.3	3.3	2.7	3.0	3.7	3.7	5.0	5.3	5.3	3.0	3.0	3.3	3.7
PPG-PR 136	43.3	70.0	76.7	11.7	3.3	2.7	2.3	3.0	4.0	3.7	4.7	5.0	5.3	3.7	3.7	3.3	3.7
APPLE SGL (PPG-PR 140)	56.7	73.3	85.0	5.7	3.3	3.3	3.0	3.3	3.7	4.3	5.7	4.7	3.7	3.0	3.0	3.0	3.7
PST-2K9	53.3	70.0	83.3	9.0	3.7	3.0	2.7	3.3	3.3	4.0	5.3	5.7	4.7	2.7	2.7	3.0	3.7
RAD-PR55R	53.3	70.0	76.7	9.0	3.3	3.3	2.7	3.0	3.3	4.0	4.7	5.0	5.0	3.3	3.3	3.0	3.7
A-35	50.0	63.3	78.3	7.3	3.3	3.3	3.0	3.0	3.0	3.3	4.7	5.0	5.3	3.0	3.0	3.0	3.6
APR 2038	46.7	66.7	73.3	11.7	3.3	2.7	2.7	3.0	3.0	3.7	4.3	5.7	5.3	3.3	3.3	3.3	3.6
APR 2320	40.0	70.0	76.7	11.7	3.3	2.7	2.0	3.0	3.7	3.7	4.7	5.0	5.3	3.3	3.3	3.0	3.6
BAR LP 10969	46.7	66.7	76.7	8.3	3.3	3.0	2.3	3.0	3.3	3.3	4.7	5.3	5.0	3.3	3.3	3.0	3.6
IS-PR 409	50.0	66.7	76.7	13.3	3.3	3.0	2.7	3.0	3.0	3.3	4.7	5.3	5.7	3.0	3.0	3.0	3.6
ISG-30	46.7	66.7	76.7	18.3	3.7	2.7	2.7	3.0	3.3	3.3	4.7	5.3	4.7	3.3	3.3	2.7	3.6
PPG-PR 128	46.7	66.7	80.0	10.0	3.7	3.0	2.7	3.0	3.3	3.3	5.0	5.3	4.7	3.0	3.0	3.0	3.6
FASTBALL RGL (PPG-PR 133)	43.3	66.7	73.3	7.3	3.3	3.0	2.3	3.0	3.7	3.7	4.3	5.3	5.3	3.3	3.3	3.0	3.6
PPG-PR 165	46.7	63.3	71.7	10.0	3.3	2.7	2.7	3.0	3.0	3.3	4.0	5.3	5.7	3.3	3.3	3.0	3.6
RAD-PR62	53.3	70.0	78.3	11.7	3.3	3.0	3.0	3.0	2.7	3.3	4.7	5.0	5.7	3.3	3.3	3.0	3.6
RIO VISTA	43.3	70.0	76.7	8.3	3.3	3.0	2.3	3.0	3.0	3.7	4.7	5.3	5.3	3.3	3.3	3.0	3.6
BAR LP 7608	46.7	66.7	80.0	8.3	3.3	3.0	2.7	2.7	3.3	3.0	4.7	4.7	5.3	3.3	3.3	2.7	3.5
PROMINENT (CS-20)	46.7	63.3	73.3	16.7	3.3	3.3	2.7	3.0	3.3	3.3	4.3	5.0	5.0	3.0	3.0	2.7	3.5
P02	46.7	70.0	80.0	11.7	3.3	2.7	2.3	3.0	3.0	3.0	5.0	5.3	5.0	3.3	3.3	2.7	3.5
SRX-4RHD	46.7	66.7	80.0	13.3	3.3	2.7	2.3	3.0	3.3	3.7	5.0	5.0	5.0	3.0	3.0	3.0	3.5
APR 2036	40.0	66.7	76.7	13.3	3.0	2.7	2.0	2.7	3.3	3.3	4.3	5.0	5.3	3.0	3.0	3.0	3.4
ISG-31	40.0	66.7	76.7	18.3	3.3	3.0	2.3	3.0	3.7	3.7	4.7	4.7	4.3	3.0	3.0	2.3	3.4
LTP-PR 135	40.0	63.3	73.3	10.0	3.0	2.7	2.3	3.0	3.0	3.0	4.3	5.3	5.0	3.3	3.3	3.0	3.4
SIENNA	36.7	63.3	73.3	7.3	3.3	2.7	2.0	3.0	3.3	3.0	4.3	5.0	4.7	3.0	3.0	3.3	3.4
ALLANTE	40.0	66.7	73.3	8.3	3.3	2.7	2.3	2.3	3.0	3.3	4.3	4.7	4.7	3.3	3.3	2.7	3.3
CL 11601	36.7	66.7	73.3	9.0	3.0	2.7	2.0	3.0	3.0	3.0	4.3	4.7	4.7	3.0	3.0	3.0	3.3
PPG-PR 121	40.0	66.7	70.0	9.0	3.0	3.0	2.0	3.0	3.0	3.0	4.0	5.0	4.3	3.3	3.3	2.7	3.3
PR 909	36.7	60.0	66.7	14.0	3.0	3.0	2.0	2.7	3.0	3.0	3.7	4.3	5.3	3.0	3.0	3.0	3.3
DLF LGD-3026	36.7	63.3	70.0	15.0	3.0	2.3	2.0	3.0	3.0	3.0	4.0	4.3	4.7	3.0	3.0	2.7	3.2
DLF LGT 4182	40.0	60.0	66.7	15.0	3.0	2.3	2.0	2.3	3.0	3.0	3.7	4.7	4.7	3.0	3.0	2.3	3.1
PINNACLE	36.7	60.0	73.3	16.7	3.0	2.3	2.0	2.3	3.0	3.3	4.0	4.7	4.7	3.0	3.0	2.3	3.1
LINN	30.0	46.7	63.3	11.7	3.0	2.0	2.0	2.0	2.3	3.0	3.3	3.3	3.3	2.3	2.3	2.0	2.6
LSD VALUE	24.1	20.2	15.7	15.4	2.3	2.5	1.3	2.4	1.5	2.3	1.6	1.0	1.6	2.0	2.0	2.4	0.9
C.V. (%)	20.7	11.2	9.2	50.3	17.0	18.7	21.0	17.9	18.3	20.2	15.5	9.7	12.9	17.1	17.1	21.0	11.1

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

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

TABLE 9. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT RIVERSIDE (TRAFFIC STUDY), CA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER IN AUGUST			PERCENT COVER IN SEPTEMBER			PERCENT COVER IN OCTOBER			PERCENT COVER IN NOVEMBER		
	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN
BANDALORE (IS-PR 463)	3.0	7.7	89.3	3.0	3.7	93.3	8.3	18.3	73.3	5.0	11.7	83.3
PICK 10401	3.0	3.0	94.0	2.7	2.3	95.0	9.0	16.7	74.3	4.3	12.3	83.3
BONNEVILLE	3.0	3.7	93.3	2.3	3.0	94.7	7.3	17.3	75.3	4.3	20.0	75.7
DLF LGD-3022	2.7	3.7	93.7	4.3	4.3	91.3	9.3	20.0	70.7	3.7	9.0	87.3
BANFIELD (IS-PR 491)	3.0	3.7	93.3	11.0	6.0	83.0	16.7	18.3	65.0	3.7	13.3	83.0
PSRX-4CAGL	3.0	4.3	92.7	3.7	4.3	92.0	8.3	21.7	70.0	3.7	11.7	84.7
S85	2.3	8.3	89.3	7.7	5.0	87.3	9.0	21.7	69.3	2.3	13.3	84.3
FIESTA 4	3.0	9.3	87.7	4.7	6.0	89.3	9.0	16.7	74.3	3.7	15.0	81.3
OCTANE	3.0	4.7	92.3	4.3	5.0	90.7	15.0	21.7	63.3	5.7	13.3	81.0
PST-204D	3.0	5.3	91.7	3.7	4.3	92.0	11.7	21.7	66.7	5.0	13.3	81.7
PST-2BNS	3.0	3.7	93.3	10.0	8.3	81.7	10.0	30.0	60.0	4.3	16.7	79.0
PST-2MG7	3.0	5.3	91.7	3.7	5.0	91.3	9.0	17.3	73.7	5.0	12.3	82.7
2NJK	3.0	4.3	92.7	2.7	4.3	93.0	11.7	20.0	68.3	6.0	14.0	80.0
GO-G37	3.0	6.7	90.3	6.0	6.7	87.3	9.0	20.0	71.0	4.3	15.0	80.7
THRIVE (IS-PR 469)	3.0	25.0	72.0	3.0	4.3	92.7	10.7	23.3	66.0	4.3	15.0	80.7
ASPAIRE (IS-PR 489)	3.0	6.7	90.3	3.7	3.7	92.7	8.3	18.3	73.3	4.3	15.0	80.7
JR-192	2.7	6.0	91.3	4.7	4.3	91.0	10.7	21.7	67.7	4.3	15.7	80.0
PSRX-3701	3.0	7.7	89.3	4.3	6.0	89.7	11.7	16.7	71.7	3.7	14.0	82.3
SRX-4MSH	3.0	3.3	93.7	4.3	3.3	92.3	7.3	23.3	69.3	4.3	12.3	83.3
UNO	2.7	6.3	91.0	5.7	6.3	88.0	9.3	20.0	70.7	4.3	14.7	81.0
BRIGHTSTAR SLT	2.7	9.3	88.0	4.3	5.7	90.0	7.3	23.3	69.3	3.7	13.3	83.0
CL 307	3.0	7.7	89.3	6.7	4.3	89.0	11.7	23.3	65.0	4.3	16.7	79.0
GM3	3.0	9.3	87.7	5.0	6.7	88.3	10.7	25.0	64.3	3.7	21.7	74.7
HANCOCK (IS-PR 479)	3.0	4.3	92.7	4.3	5.7	90.0	11.7	25.0	63.3	5.0	16.7	78.3
JR-178	3.0	9.3	87.7	6.0	7.7	86.3	10.7	17.3	72.0	4.3	12.3	83.3
PALMER V	3.0	6.0	91.0	6.0	6.0	88.0	8.3	26.7	65.0	4.3	13.3	82.3
PSRX-S84	3.0	11.7	85.3	5.0	6.7	88.3	10.0	20.0	70.0	4.3	15.0	80.7
PST-2NKM	3.0	11.0	86.0	6.7	6.0	87.3	10.0	18.3	71.7	4.3	13.3	82.3
PST-2TQL	3.0	7.7	89.3	6.3	5.3	88.3	11.7	23.3	65.0	4.3	15.7	80.0
RINOV0	3.0	13.3	83.7	5.0	6.7	88.3	11.7	26.7	61.7	3.7	14.0	82.3
BAR LP 10970	3.0	10.0	87.0	6.7	7.7	85.7	15.0	23.3	61.7	4.3	18.3	77.3
BAR LP 10972	3.0	6.0	91.0	5.0	5.3	89.7	13.3	26.7	60.0	4.3	15.0	80.7
CL 11701	12.0	8.3	79.7	9.3	15.0	75.7	21.7	30.0	48.3	4.3	36.7	59.0
IS-PR 488	3.0	6.0	91.0	3.3	5.3	91.3	10.7	23.3	66.0	3.7	20.0	76.3
ISG-36	2.7	10.0	87.3	10.3	9.0	80.7	10.0	36.7	53.3	3.7	21.7	74.7
LTP-RAE	2.7	13.3	84.0	7.7	7.7	84.7	10.0	20.0	70.0	3.7	15.0	81.3
MACH I	3.0	6.7	90.3	4.3	4.3	91.3	10.0	25.0	65.0	5.7	18.3	76.0
PICK 4DFHM	3.0	5.0	92.0	3.0	5.7	91.3	10.0	26.7	63.3	4.3	14.0	81.7
PPG-PR 142	3.0	7.7	89.3	7.0	7.3	85.7	9.0	26.7	64.3	4.3	16.7	79.0
PPG-PR 143	3.0	10.0	87.0	4.3	6.7	89.0	13.3	26.7	60.0	4.3	20.0	75.7
PRX-4GM1	3.0	7.7	89.3	3.0	5.0	92.0	11.7	23.3	65.0	4.3	21.7	74.0
CS-PR66	3.0	6.0	91.0	6.0	5.0	89.0	11.7	23.3	65.0	4.3	21.7	74.0
PILLAR (CST)	3.0	11.0	86.0	5.0	7.7	87.3	12.3	23.3	64.3	5.0	18.3	76.7
GO-PR60	2.7	6.0	91.3	5.0	4.3	90.7	10.0	23.3	66.7	5.0	15.0	80.0
STAMINA (IS-PR 487)	3.0	9.3	87.7	3.7	6.0	90.3	11.7	26.7	61.7	4.3	17.3	78.3
IS-PR 492	3.0	8.3	88.7	5.3	7.0	87.7	13.3	21.7	65.0	4.3	20.0	75.7
PREMIUM (PPG-PR 13	7)3.0	10.7	86.3	4.3	6.7	89.0	11.7	26.7	61.7	4.3	15.7	80.0

TABLE 9. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT RIVERSIDE (TRAFFIC STUDY), CA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER IN AUGUST			PERCENT COVER IN SEPTEMBER			PERCENT COVER IN OCTOBER			PERCENT COVER IN NOVEMBER		
	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN
PPG-PR 138	3.0	11.7	85.3	6.3	7.7	86.0	9.0	28.3	62.7	3.7	13.3	83.0
GRAND SLAM GLD (PPG-PR 164)	3.0	11.0	86.0	5.0	7.7	87.3	12.3	26.7	61.0	4.3	15.7	80.0
PST-2ACR	3.0	7.7	89.3	9.0	8.3	82.7	13.3	26.7	60.0	5.0	20.0	75.0
PST-2AG4	3.0	7.7	89.3	7.3	7.3	85.3	13.3	25.0	61.7	4.3	17.3	78.3
PST-2DR9	3.0	9.3	87.7	5.0	7.7	87.3	13.3	23.3	63.3	5.0	16.7	78.3
PST-2MAGS	3.0	11.7	85.3	6.3	7.3	86.3	13.3	21.7	65.0	5.0	21.7	73.3
APR 2445	3.0	11.7	85.3	8.3	8.3	83.3	11.7	26.7	61.7	4.3	20.7	75.0
GO-DHS	3.0	10.0	87.0	6.0	7.3	86.7	11.7	25.0	63.3	5.0	21.7	73.3
INSIGHT	3.0	10.0	87.0	5.7	8.3	86.0	10.0	21.7	68.3	4.3	16.7	79.0
STELLAR 3GL (PPG-PR 134)	3.0	9.3	87.7	6.7	7.7	85.7	15.0	26.7	58.3	4.3	16.7	79.0
PPG-PR 136	3.0	12.7	84.3	6.0	8.7	85.3	11.7	21.7	66.7	3.7	15.0	81.3
APPLE SGL (PPG-PR 140)	15.3	9.3	75.3	17.3	15.7	67.0	25.0	26.7	48.3	3.7	23.3	73.0
PST-2K9	3.0	7.7	89.3	10.0	11.7	78.3	23.3	25.0	51.7	4.3	16.7	79.0
RAD-PR55R	3.7	11.0	85.3	5.7	8.7	85.7	11.7	28.3	60.0	4.3	21.7	74.0
A-35	3.0	10.0	87.0	8.7	10.7	80.7	7.3	30.0	62.7	4.3	22.3	73.3
APR 2038	3.0	8.3	88.7	6.7	8.3	85.0	13.3	31.7	55.0	4.3	18.3	77.3
APR 2320	3.0	13.3	83.7	6.3	7.3	86.3	13.3	28.3	58.3	5.0	20.0	75.0
BAR LP 10969	3.0	11.7	85.3	11.0	8.3	80.7	15.0	23.3	61.7	5.0	20.0	75.0
IS-PR 409	3.0	10.0	87.0	4.3	6.0	89.7	11.7	30.0	58.3	5.0	20.0	75.0
ISG-30	3.0	10.0	87.0	10.0	10.0	80.0	13.3	28.3	58.3	5.0	23.3	71.7
PPG-PR 128	3.0	10.0	87.0	10.0	11.7	78.3	13.3	35.0	51.7	5.0	23.3	71.7
FASTBALL RGL (PPG-PR 133)	3.0	11.0	86.0	5.7	7.7	86.7	13.3	23.3	63.3	4.3	20.0	75.7
PPG-PR 165	3.0	10.0	87.0	3.0	6.0	91.0	11.7	23.3	65.0	5.0	18.3	76.7
RAD-PR62	3.0	13.3	83.7	4.3	6.0	89.7	13.3	25.0	61.7	5.0	20.0	75.0
RIO VISTA	3.0	10.0	87.0	6.0	8.3	85.7	13.3	21.7	65.0	5.0	18.3	76.7
BAR LP 7608	3.0	13.3	83.7	5.7	7.3	87.0	11.7	31.7	56.7	5.0	23.3	71.7
PROMINENT (CS-20)	3.0	16.7	80.3	7.3	11.7	81.0	13.3	28.3	58.3	5.0	25.0	70.0
P02	3.0	11.0	86.0	7.7	8.3	84.0	11.7	26.7	61.7	5.0	23.3	71.7
SRX-4RHD	3.0	13.3	83.7	6.3	8.3	85.3	15.0	26.7	58.3	4.3	20.0	75.7
APR 2036	3.0	10.0	87.0	5.7	8.0	86.3	13.3	33.3	53.3	5.7	20.0	74.3
ISG-31	3.0	15.0	82.0	10.7	15.0	74.3	13.3	40.0	46.7	5.0	31.7	63.3
LTP-PR 135	3.0	11.7	85.3	6.7	7.3	86.0	15.0	23.3	61.7	4.3	20.0	75.7
SIENNA	3.0	14.0	83.0	8.3	8.3	83.3	15.0	26.7	58.3	4.3	19.0	76.7
ALLANTE	3.0	18.3	78.7	7.7	11.7	80.7	11.7	25.0	63.3	3.7	25.0	71.3
CL 11601	3.0	15.0	82.0	11.3	9.0	79.7	13.3	30.0	56.7	5.0	20.0	75.0
PPG-PR 121	3.0	15.0	82.0	10.7	11.7	77.7	15.0	26.7	58.3	5.0	23.3	71.7
PR 909	3.0	16.7	80.3	7.7	8.3	84.0	13.3	21.7	65.0	4.3	18.3	77.3
DLF LGD-3026	3.0	18.3	78.7	21.7	13.3	65.0	16.7	26.7	56.7	5.0	25.0	70.0
DLF LGT 4182	3.0	15.0	82.0	7.3	9.0	83.7	11.7	31.7	56.7	5.7	31.7	62.7
PINNACLE	4.3	12.3	83.3	8.7	13.3	78.0	16.7	26.7	56.7	4.3	43.3	52.3
LINN	3.0	36.7	60.3	16.7	31.7	51.7	18.3	53.3	28.3	10.0	58.3	31.7
LSD VALUE	11.9	10.9	13.4	16.5	7.9	17.8	15.1	19.3	29.6	3.3	17.5	18.0
C.V. (%)	87.7	56.8	7.3	77.0	55.1	9.7	39.9	30.6	16.8	26.8	44.7	11.6

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

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

TABLE 10. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT BLACKSBURG (TRAFFIC STUDY), VA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SPRING	PERCENT LIVING GROUND COVER			QUALITY RATINGS							
		BEFORE TRAFFIC	MID-WAY TRAFFIC	AFTER TRAFFIC	MAR	MAY	JUN	JUL	AUG	SEP	NOV	MEAN
PST-204D	75.0	97.7	83.3	76.7	7.0	6.7	7.3	6.3	7.0	5.7	5.0	6.4
PST-2NKM	76.7	99.0	81.7	83.3	5.7	6.3	7.0	7.0	7.0	5.7	6.0	6.4
WICKED (SRX-4RHD)	66.7	96.0	76.7	73.3	6.3	6.7	7.0	6.7	7.3	6.0	4.7	6.4
STELLAR 3GL (PPG-PR 134)	78.3	97.7	78.3	78.3	5.3	6.0	6.7	6.0	8.3	5.7	6.0	6.3
2NJK	66.7	97.7	85.0	80.0	5.0	6.0	6.7	6.3	7.3	6.3	6.0	6.2
HAVEN (APR 2038)	76.7	99.0	81.7	83.3	5.3	6.3	7.3	6.3	7.3	5.7	5.3	6.2
PST-2BNS	76.7	99.0	80.0	78.3	6.0	6.3	7.3	6.7	7.0	5.0	5.3	6.2
CL 11601	76.7	97.7	81.7	68.3	5.7	6.3	7.3	7.0	6.7	5.0	4.7	6.1
SIDEWAYS (PSRX-S84)	80.0	97.7	80.0	76.7	5.0	6.0	6.7	6.0	7.3	6.0	5.3	6.0
APR 2036	78.3	89.3	92.7	88.3	5.0	6.0	6.0	5.3	6.3	6.7	5.7	5.9
IS-PR 492	75.0	96.3	73.3	66.7	5.7	6.3	7.0	5.3	7.3	4.7	4.7	5.9
GRAND SLAM GLD (PPG-PR 164)	76.7	97.7	91.7	90.0	4.3	5.3	5.7	5.3	7.7	6.0	6.7	5.9
PST-2DR9	73.3	99.0	83.3	80.0	5.7	6.0	6.0	6.0	6.7	5.7	5.3	5.9
APR 2445	71.7	97.7	83.3	73.3	5.7	6.0	5.7	5.7	6.7	5.7	5.0	5.8
DOMINATOR (PST-2AG4)	76.7	96.3	83.3	76.7	6.0	6.0	5.7	4.7	6.7	5.7	5.7	5.8
PPG-PR 121	81.7	96.3	91.7	86.7	4.3	5.7	6.3	5.7	7.3	5.3	6.0	5.8
FASTBALL RGL (PPG-PR 133)	73.3	94.7	85.0	83.3	4.7	5.7	6.0	6.0	7.0	5.3	6.0	5.8
PPG-PR 143	75.0	96.0	91.7	86.7	4.7	5.7	5.7	5.3	6.7	6.7	5.7	5.8
PST-2ACR	80.0	96.3	81.7	73.3	5.0	5.7	6.3	5.7	7.7	5.3	4.7	5.8
SRX-4MSH	85.0	96.3	86.7	83.3	4.3	5.3	6.3	5.3	7.7	5.7	6.0	5.8
BAR LP 10970	75.0	96.3	88.3	78.3	5.3	5.3	5.7	5.3	7.3	6.3	4.7	5.7
EVOLUTION (S85)	80.0	97.7	70.0	63.3	5.0	6.0	6.3	5.7	7.0	5.3	4.7	5.7
LTP-PR 135	76.7	96.3	85.0	76.7	4.3	5.7	6.3	6.0	6.7	6.0	5.0	5.7
PICK 4DFHM	76.7	97.7	80.0	73.3	4.0	5.3	6.3	5.7	7.0	5.7	5.7	5.7
PREMIUM (PPG-PR 137)	81.7	96.3	76.7	78.3	5.3	5.7	6.0	5.7	6.3	5.3	5.7	5.7
PRX-4GM1	78.3	96.0	83.3	85.0	5.0	5.7	6.7	5.7	6.0	5.3	5.7	5.7
PST-2K9	81.7	97.7	83.3	63.3	5.0	6.0	7.3	5.3	7.3	4.7	4.3	5.7
BRIGHTSTAR SLT	71.7	99.0	81.7	55.0	5.7	5.7	5.3	5.0	7.0	5.7	4.7	5.6
DLF LGD-3022	70.0	93.3	75.0	58.3	5.7	6.3	6.3	5.3	6.3	4.7	4.3	5.6
GO-G37	73.3	97.7	78.3	80.0	5.3	5.7	5.0	5.7	6.3	5.3	6.0	5.6
ISG-31	76.7	93.0	80.0	75.0	5.7	5.3	5.3	5.3	6.3	5.7	5.3	5.6
KARMA (PICK 10401)	68.3	97.7	73.3	65.0	4.7	5.7	7.0	6.0	7.3	4.0	4.3	5.6
APPLE SGL (PPG-PR 140)	76.7	99.0	88.3	76.7	4.0	5.3	6.0	5.0	7.3	5.7	6.0	5.6
RAD-PR62	73.3	95.0	75.0	70.0	5.7	5.7	5.0	5.7	6.3	6.0	4.7	5.6
UNO	66.7	94.7	76.7	63.3	5.3	5.3	5.3	6.0	7.3	5.0	4.7	5.6
BAR LP 7608	68.3	99.0	78.3	60.0	4.7	5.7	6.0	5.7	7.3	4.7	4.7	5.5
CL 307	70.0	96.0	81.7	78.3	4.0	5.3	5.7	5.7	6.3	5.7	5.7	5.5
PROMINENT (CS-20)	73.3	91.7	65.0	68.3	6.7	6.0	5.0	4.3	6.3	5.3	4.7	5.5
PPG-PR 128	75.0	99.0	65.0	63.3	4.7	5.3	5.7	6.7	7.3	4.0	4.7	5.5
RINOVO	78.3	96.3	73.3	60.0	5.0	6.3	7.0	5.0	6.3	4.3	4.3	5.5
APR 2320	83.3	93.0	85.0	80.0	4.3	5.3	5.3	4.7	6.3	6.0	5.7	5.4
BAR LP 10972	60.0	94.7	81.7	76.7	5.3	5.0	4.3	5.0	6.7	6.0	5.3	5.4
ISG-30	80.0	94.7	80.0	78.3	5.3	5.7	4.7	5.3	6.3	5.3	5.0	5.4
MANHATTAN 6 GLR (PST-2MAGS)	76.7	96.3	76.7	63.3	5.3	5.3	5.7	4.7	7.0	4.7	5.3	5.4
OCTANE	86.7	96.0	75.0	60.0	5.0	5.7	6.0	5.0	7.0	4.7	4.7	5.4
PANGEA GLR (CL 11701)	71.7	94.7	83.3	66.7	4.0	5.3	6.0	5.7	6.3	5.7	4.7	5.4
PPG-PR 138	68.3	94.7	83.3	70.0	4.7	5.3	6.0	5.3	6.7	5.0	4.7	5.4

TABLE 10. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT BLACKSBURG (TRAFFIC STUDY), VA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SPRING	PERCENT BEFORE TRAFFIC	PERCENT LIVING GROUND COVER MID-WAY TRAFFIC	AFTER TRAFFIC	MAR	MAY	JUN	QUALITY RATINGS JUL	AUG	SEP	NOV	MEAN
PST-2TQL	81.7	97.7	70.0	65.0	5.0	5.7	6.0	5.7	7.0	4.3	4.3	5.4
SR 4650 (PSRX-3701)	73.3	94.7	70.0	58.3	5.7	6.0	6.7	5.3	6.7	3.3	4.0	5.4
CS-PR66	65.0	96.3	80.0	66.7	5.0	5.0	4.7	5.7	6.7	5.0	5.3	5.3
STAMINA (IS-PR 487)	71.7	93.3	80.0	66.7	4.3	5.7	7.0	5.3	6.3	4.0	4.7	5.3
JR-192	81.7	94.7	80.0	73.3	4.3	5.7	7.0	5.3	6.0	4.3	4.7	5.3
PLAYOFF 2 (P02)	76.7	94.3	73.3	71.7	4.7	5.0	5.3	6.0	6.3	5.3	4.7	5.3
PPG-PR 136	76.7	96.3	81.7	71.7	4.7	5.3	5.0	5.0	6.7	5.3	5.0	5.3
PST-2MG7	80.0	97.7	70.0	55.0	4.7	5.3	5.7	4.3	7.3	5.7	4.3	5.3
BAR LP 10969	63.3	94.7	76.7	73.3	5.3	5.7	5.3	5.3	6.3	4.0	4.7	5.2
GO-DHS	71.7	94.7	76.7	76.7	5.3	5.3	4.3	4.3	6.7	5.0	5.3	5.2
GO-PR60	73.3	96.3	73.3	66.7	5.0	5.0	4.7	5.0	7.3	4.7	5.0	5.2
IS-PR 409	65.0	91.7	76.7	60.0	5.0	6.0	6.7	4.3	5.3	4.7	4.3	5.2
BANFIELD (IS-PR 491)	76.7	93.3	71.7	66.7	6.3	6.0	6.3	5.0	5.3	3.3	4.3	5.2
PALMER V	76.7	95.0	63.3	53.3	4.3	5.7	5.7	5.3	6.3	5.3	4.0	5.2
PPG-PR 165	73.3	94.7	78.3	68.3	5.0	5.3	5.7	5.0	7.0	4.3	4.3	5.2
RIO VISTA	83.3	93.0	66.7	63.3	6.0	5.7	6.0	5.3	5.7	4.0	4.0	5.2
A-35	75.0	94.7	63.3	51.7	5.7	5.7	5.3	5.0	6.3	3.7	4.0	5.1
JR-178	76.7	91.0	66.7	46.7	4.3	5.3	6.3	6.0	6.3	3.7	3.7	5.1
PIZZAZZ 2 GLR (PR 909)	73.3	88.3	76.7	56.7	5.0	5.7	6.3	6.0	5.0	3.7	4.0	5.1
PPG-PR 142	76.7	93.3	90.0	83.3	4.0	5.0	4.7	4.7	5.7	6.0	5.7	5.1
PILLAR (CST)	75.0	92.7	46.7	43.3	5.7	6.0	6.3	5.3	6.0	2.3	3.3	5.0
FIESTA 4	68.3	88.0	73.3	55.0	5.3	5.3	5.3	5.3	6.0	4.0	4.0	5.0
THRIVE (IS-PR 469)	76.7	93.3	73.3	68.3	4.7	5.0	5.3	5.0	6.0	4.7	4.3	5.0
HANCOCK (IS-PR 479)	75.0	90.0	81.7	73.3	5.3	5.7	5.0	4.0	5.3	4.3	5.3	5.0
IS-PR 488	76.7	92.7	75.0	56.7	4.7	5.3	6.0	5.7	6.7	3.3	3.7	5.0
BONNEVILLE	73.3	91.7	75.0	68.3	4.7	5.0	5.3	5.0	5.7	4.3	4.3	4.9
BANDALORE (IS-PR 463)	70.0	86.3	68.3	61.7	4.7	5.7	6.7	5.0	5.0	3.0	4.0	4.9
ASPAIRE (IS-PR 489)	76.7	91.3	80.0	73.3	4.7	5.3	5.7	4.7	5.3	4.0	4.3	4.9
ISG-36	71.7	90.0	68.3	53.3	4.7	5.0	4.7	4.0	7.0	5.0	4.0	4.9
RAD-PR55R	68.3	76.7	68.3	68.3	5.3	5.0	4.3	4.7	6.0	4.3	4.7	4.9
SOX FAN (GM3)	83.3	93.3	68.3	53.3	4.3	5.7	6.7	5.3	5.7	3.3	3.3	4.9
PINNACLE	63.3	93.0	65.0	51.7	5.3	5.3	5.0	5.0	5.3	3.7	3.7	4.8
ALLANTE	68.3	89.7	63.3	53.3	4.3	5.0	6.0	5.0	5.0	3.7	4.0	4.7
DLF LGD-3026	66.7	93.3	61.7	36.7	5.0	5.3	5.3	4.7	5.3	4.0	3.3	4.7
DLF LGT 4182	61.7	89.7	51.7	51.7	5.7	5.3	4.3	4.3	6.0	3.7	3.3	4.7
LTP-RAE	75.0	90.0	56.7	43.3	4.3	5.3	6.0	5.0	5.0	2.7	3.7	4.6
PSRX-4CAGL	70.0	85.0	86.7	75.0	4.7	5.0	4.0	4.3	4.7	5.0	4.7	4.6
INSIGHT	71.7	81.7	61.7	40.0	4.7	5.0	5.3	4.7	4.7	3.7	3.3	4.5
MACH I	66.7	90.0	68.3	38.3	4.7	5.0	4.3	4.3	5.3	2.7	3.3	4.2
SIENNA	76.7	76.7	50.0	43.3	4.3	5.7	6.3	3.7	3.7	2.7	3.0	4.2
LINN	50.0	60.0	48.3	36.7	3.3	4.0	4.0	2.3	3.0	1.7	2.3	3.0
LSD VALUE	25.8	11.2	44.3	40.5	5.1	2.3	2.1	2.3	2.9	2.2	3.0	1.1
C.V. (%)	12.1	6.5	19.4	25.6	22.9	12.5	17.8	18.6	19.1	24.6	24.8	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 11: MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT MADISON (TRAFFIC STUDY), WI 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GREEN COVER			PERCENT BARE SOIL			QUALITY RATINGS						
	AUGUST	OCTOBER	NOVEMBER	AUGUST	OCTOBER	NOVEMBER	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
JR-178	83.3	97.7	90.0	4.3	1.7	3.0	6.0	5.7	4.0	6.3	6.3	6.0	5.7
PREMIUM (PPG-PR 137)	90.0	93.0	90.0	1.7	5.0	3.0	6.0	5.3	3.7	5.7	6.7	6.0	5.6
SR 4650 (PSRX-3701)	83.3	97.7	86.7	4.0	1.7	5.0	5.3	5.7	4.0	6.0	6.7	5.7	5.6
STAMINA (IS-PR 487)	86.7	97.7	88.3	3.0	1.7	2.0	5.7	5.3	3.3	6.0	6.0	6.0	5.4
PPG-PR 143	80.0	97.7	88.3	4.7	0.0	4.0	5.3	5.3	4.3	5.7	6.0	6.0	5.4
BAR LP 10970	78.3	91.3	85.0	5.0	3.3	4.0	5.7	5.7	3.3	5.3	6.0	5.7	5.3
FASTBALL RGL (PPG-PR 133)	83.3	96.3	91.7	3.0	3.3	4.0	5.3	5.7	2.7	6.0	6.3	5.7	5.3
GRAND SLAM GLD (PPG-PR 164)	80.0	94.7	85.0	2.7	1.7	4.0	4.7	5.0	4.0	5.7	6.7	5.7	5.3
SIDEWAYS (PSRX-S84)	83.3	91.7	91.7	2.0	3.3	3.0	5.0	5.0	3.7	5.7	6.3	6.0	5.3
UNO	83.3	93.3	88.3	1.7	3.3	5.7	5.3	5.3	3.7	5.7	6.7	5.3	5.3
ASPAIRE (IS-PR 489)	83.3	96.3	93.3	4.0	3.3	3.0	5.0	5.7	3.0	6.0	6.0	5.7	5.2
JR-192	78.3	93.0	88.3	1.7	5.0	3.0	5.7	5.3	3.0	5.7	6.3	5.3	5.2
KARMA (PICK 10401)	86.7	97.7	88.3	2.7	0.0	5.0	5.0	6.0	3.0	6.3	5.7	5.0	5.2
LTP-PR 135	83.3	93.7	81.7	2.7	3.3	6.7	5.3	5.3	3.3	6.0	6.0	5.0	5.2
LTP-RAE	81.7	96.0	86.7	4.0	1.7	6.7	4.7	5.3	3.7	6.0	6.3	5.0	5.2
PANGEA GLR (CL 11701)	76.7	94.7	91.7	5.7	5.0	4.0	5.7	5.3	2.7	5.3	6.0	6.0	5.2
PPG-PR 136	85.0	93.3	86.7	2.7	3.3	3.0	5.0	5.7	3.0	6.7	6.0	4.7	5.2
PPG-PR 138	83.3	97.7	88.3	3.0	0.0	4.0	5.7	5.3	4.0	5.0	5.3	5.7	5.2
PPG-PR 165	83.3	94.7	88.3	4.0	1.7	4.0	5.0	5.3	3.3	5.7	6.7	5.3	5.2
BAR LP 10972	81.7	93.0	88.3	9.0	3.3	5.0	4.7	5.7	3.7	6.0	5.7	5.0	5.1
THRIVE (IS-PR 469)	78.3	96.3	91.7	5.0	0.0	4.0	5.0	5.3	3.7	5.3	6.0	5.3	5.1
PLAYOFF 2 (P02)	86.7	96.3	88.3	4.0	1.7	5.7	4.7	5.0	3.7	6.0	6.0	5.3	5.1
APPLE SGL (PPG-PR 140)	76.7	96.3	80.0	10.0	3.3	5.0	5.0	5.0	4.0	5.0	6.0	5.3	5.1
PST-2NKM	86.7	93.3	88.3	3.0	1.7	4.0	5.3	6.0	2.7	6.0	5.7	5.0	5.1
WICKED (SRX-4RHD)	80.0	93.3	90.0	4.0	5.0	5.0	5.0	5.3	3.7	5.3	6.0	5.3	5.1
CL 307	83.7	96.3	83.3	2.0	1.7	4.0	4.7	5.0	3.7	5.7	6.0	5.0	5.0
DLF LGD-3022	81.7	97.7	83.3	4.3	1.7	5.7	4.7	5.7	3.7	5.7	5.7	4.7	5.0
DLF LGD-3026	81.7	96.3	88.3	7.0	3.3	4.0	5.3	5.0	3.3	5.0	6.0	5.3	5.0
BANDALORE (IS-PR 463)	83.3	97.7	85.0	5.3	1.7	4.7	4.7	4.7	3.7	5.7	6.3	5.0	5.0
PST-2BNS	81.7	96.3	93.3	5.3	1.7	3.0	4.7	4.7	3.3	5.7	5.7	6.0	5.0
2NJK	83.3	94.7	80.0	6.3	1.7	5.0	4.3	5.3	2.7	5.7	6.3	5.3	4.9
ALLANTE	80.0	93.3	86.7	5.7	3.3	5.7	5.0	5.3	3.3	5.3	5.7	4.7	4.9
BAR LP 10969	78.3	88.3	85.0	8.3	5.0	5.0	5.7	5.0	3.0	5.3	5.7	4.7	4.9
CL 11601	83.3	97.7	93.3	4.0	1.7	4.0	4.7	5.0	3.3	5.0	6.3	5.3	4.9
PILLAR (CST)	80.0	94.7	86.7	4.7	1.7	6.7	5.0	5.7	3.0	4.7	6.3	5.0	4.9
EVOLUTION (S85)	81.7	92.7	86.7	5.3	3.3	5.7	4.7	5.3	3.0	5.3	6.0	5.0	4.9
IS-PR 488	85.0	62.7	81.7	4.7	5.0	9.0	5.0	5.0	2.7	6.0	6.0	5.0	4.9
IS-PR 492	78.3	94.7	88.3	3.0	3.3	6.7	4.7	4.7	2.7	6.0	6.3	5.0	4.9
MANHATTAN 6 GLR (PST-2MAGS)	80.0	94.7	85.0	6.7	5.0	4.7	5.0	5.7	2.3	5.3	5.7	5.3	4.9
OCTANE	76.7	91.3	90.0	8.3	6.7	5.7	5.0	4.7	3.3	5.3	6.0	5.0	4.9
PIZZAZZ 2 GLR (PR 909)	85.0	93.3	90.0	2.3	6.7	2.0	5.0	4.7	3.3	5.7	6.0	5.0	4.9
PPG-PR 142	81.7	94.7	83.3	10.7	5.0	6.7	4.7	4.7	3.3	5.3	6.3	5.0	4.9
PRX-4GM1	81.7	96.3	93.3	5.7	3.3	3.0	5.3	5.3	2.7	4.7	5.7	5.7	4.9
PST-2ACR	65.0	96.3	95.0	10.7	1.7	3.0	4.7	4.7	3.7	5.7	5.7	5.3	4.9
PST-2K9	80.0	91.3	90.0	3.0	3.3	4.7	4.7	5.0	3.0	5.7	5.7	5.3	4.9
BAR LP 7608	80.0	93.3	88.3	8.3	1.7	4.0	4.7	5.7	3.3	4.7	5.3	5.0	4.8
BRIGHTSTAR SLT	78.3	93.3	83.3	8.3	3.3	9.0	5.0	5.3	3.0	5.3	5.7	4.3	4.8

TABLE 11. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT MADISON (TRAFFIC STUDY), WI 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT GREEN COVER			PERCENT BARE SOIL					QUALITY RATINGS				
	AUGUST	OCTOBER	NOVEMBER	AUGUST	OCTOBER	NOVEMBER	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
GO-PR60	83.3	93.0	83.3	3.0	3.3	4.7	5.0	4.7	3.3	5.7	6.0	4.3	4.8
PPG-PR 121	85.0	93.3	80.0	2.7	5.0	6.7	4.7	4.3	3.3	5.0	6.3	5.3	4.8
PST-2MG7	83.3	94.7	88.3	4.7	3.3	6.3	4.7	4.0	2.7	5.3	6.3	5.7	4.8
PST-2TQL	78.3	91.3	88.3	7.3	5.0	7.3	5.3	4.3	2.7	5.7	6.0	4.7	4.8
SRX-4MSH	78.3	96.3	90.0	5.0	1.7	2.0	5.3	4.3	2.3	5.7	5.7	5.7	4.8
BONNEVILLE	73.3	93.3	88.3	4.0	3.3	5.7	4.3	5.0	2.7	5.3	6.0	4.7	4.7
IS-PR 409	78.3	95.0	85.0	5.7	3.3	7.3	4.7	5.3	3.0	5.0	5.7	4.7	4.7
BANFIELD (IS-PR 491)	78.3	93.0	90.0	8.3	3.3	4.0	4.7	5.0	2.7	6.0	5.3	4.7	4.7
RIO VISTA	76.7	97.7	91.7	8.3	5.0	5.7	5.0	4.7	3.0	5.0	5.7	4.7	4.7
SIENNA	76.7	93.3	86.7	5.0	5.0	8.3	4.7	4.0	3.7	5.3	5.3	5.0	4.7
SOX FAN (GM3)	76.7	90.0	88.3	8.3	3.3	3.0	4.3	4.7	3.0	5.0	5.7	5.3	4.7
APR 2036	85.0	93.0	88.3	6.3	9.3	6.7	5.0	4.7	2.3	5.0	5.7	5.0	4.6
APR 2445	78.3	91.7	91.7	6.7	3.3	3.0	4.7	5.0	2.3	5.3	5.3	4.7	4.6
CS-PR66	78.3	88.3	91.7	7.3	1.7	4.0	5.7	4.7	2.3	4.7	5.3	5.0	4.6
INSIGHT	76.7	93.3	88.3	7.3	5.0	4.0	4.7	4.3	3.3	5.3	5.3	4.3	4.6
LINN	81.7	86.3	80.0	3.0	11.7	13.3	3.7	5.0	2.7	5.0	5.7	5.7	4.6
MACH I	83.3	90.0	86.7	5.7	3.3	5.0	5.0	4.0	3.0	5.7	5.7	4.3	4.6
PALMER V	81.7	93.3	93.3	5.7	3.3	4.0	4.7	5.0	2.7	4.7	5.7	5.0	4.6
STELLAR 3GL (PPG-PR 134)	73.3	96.3	85.0	6.3	1.7	6.7	4.7	4.7	2.3	5.7	5.7	4.7	4.6
APR 2320	73.3	88.3	86.7	3.0	5.0	7.3	5.3	4.3	2.3	4.3	5.7	4.3	4.4
DOMINATOR (PST-2AG4)	76.7	90.0	90.0	5.7	3.3	6.7	4.7	5.0	2.0	5.0	5.3	4.3	4.4
HAVEN (APR 2038)	71.7	88.3	86.7	5.7	5.0	5.7	5.3	4.7	2.3	4.3	5.0	4.7	4.4
HANCOCK (IS-PR 479)	80.0	90.0	91.7	5.0	5.0	4.0	4.7	4.7	2.7	5.0	5.3	4.0	4.4
ISG-31	76.7	91.3	91.7	4.7	3.3	5.0	5.0	5.0	2.7	4.0	5.7	4.3	4.4
PPG-PR 128	76.7	90.0	90.0	7.3	10.0	6.7	4.3	4.3	2.7	5.0	5.7	4.7	4.4
PST-204D	78.3	90.0	90.0	5.7	5.0	6.7	5.0	4.7	2.7	4.7	4.7	4.7	4.4
A-35	78.3	88.3	86.7	5.7	3.3	6.7	5.3	4.3	2.0	4.0	5.7	4.7	4.3
PICK 4DFHM	80.0	90.0	93.3	7.3	3.3	4.0	5.3	4.0	2.0	4.0	5.3	5.0	4.3
FIESTA 4	80.0	90.0	86.7	7.3	3.3	7.3	4.3	4.0	3.3	4.7	5.0	4.0	4.2
PINNACLE	73.3	86.7	83.3	8.7	6.7	11.7	4.7	4.7	2.0	4.0	5.3	4.3	4.2
PSRX-4CAGL	78.3	90.0	86.7	10.0	5.0	8.3	5.3	4.7	2.0	3.7	4.7	4.7	4.2
PST-2DR9	81.7	93.0	86.7	4.7	1.7	6.7	4.3	4.7	2.0	4.7	5.0	4.7	4.2
RINOVO	76.7	88.3	85.0	5.7	6.7	8.3	5.3	4.7	2.0	4.3	5.0	3.7	4.2
PROMINENT (CS-20)	76.7	90.0	90.0	8.3	3.3	3.0	4.3	4.3	2.0	3.7	5.7	4.3	4.1
GO-G37	65.0	88.3	86.7	10.7	6.7	6.7	4.7	3.7	1.7	4.3	5.7	4.3	4.1
ISG-30	70.0	86.3	75.0	5.7	5.0	14.0	4.3	4.0	2.3	4.3	5.7	3.7	4.1
RAD-PR62	78.3	91.7	90.0	8.3	3.3	4.0	4.3	4.3	2.0	4.3	5.7	4.0	4.1
ISG-36	68.3	86.7	76.7	13.3	6.7	12.3	4.3	4.0	2.3	3.7	5.3	4.3	4.0
GO-DHS	75.0	91.7	91.7	11.7	5.0	6.7	4.7	4.0	2.3	3.7	4.7	4.3	3.9
RAD-PR55R	75.0	91.7	90.0	11.7	3.3	5.0	4.3	3.7	2.0	4.3	5.0	4.0	3.9
DLF LGT 4182	65.0	76.7	83.3	7.3	5.0	8.3	4.7	4.7	1.3	3.7	5.0	3.7	3.8
LSD VALUE	32.7	22.3	38.1	10.6	15.9	12.3	2.3	2.2	2.0	1.5	3.8	1.5	1.0
C.V. (%)	10.2	7.9	8.5	66.6	99.8	67.4	13.9	16.4	29.0	15.5	14.5	14.4	10.6

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

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

TABLE 12 MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT PUTALLUP (SAND DROUGHT STUDY), WA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	FEB	MAR	APR	MAY	JUN	QUALITY RATINGS						MEAN
								JUL	AUG	SEP	OCT	NOV	DEC	
PIZZAZZ 2 GLR (PR 909)	6.3	6.7	4.0	5.3	4.7	5.3	5.7	5.7	5.0	5.0	6.0	5.0	6.0	5.2
GRAND SLAM GLD (PPG-PR 164)	6.3	6.3	4.3	5.7	4.3	5.0	5.3	5.0	4.7	4.3	6.0	6.0	6.0	5.2
PPG-PR 136	6.0	6.3	4.0	5.0	4.7	5.3	5.3	5.0	5.0	5.0	5.3	6.0	5.7	5.1
CL 11601	6.3	7.0	3.7	5.0	5.3	5.3	5.0	5.0	4.7	4.7	5.7	5.7	5.3	5.0
EVOLUTION (S85)	7.0	7.0	4.3	5.0	4.7	4.7	4.7	5.0	5.0	4.7	5.3	6.3	5.7	5.0
ASPAIRE (IS-PR 489)	6.7	6.7	4.0	5.3	4.7	4.7	5.0	4.7	4.7	5.3	6.0	5.3	5.3	5.0
PST-2NKM	6.0	6.3	4.0	5.3	4.7	5.7	5.0	5.0	4.0	4.0	5.7	6.0	5.3	5.0
RINOVO	6.7	6.7	4.3	5.3	5.0	4.7	5.3	4.7	4.3	4.7	5.3	6.3	4.7	5.0
SIDEWAYS (PSRX-S84)	6.3	6.3	4.3	5.3	4.7	5.3	4.7	4.3	4.7	4.7	5.3	5.7	5.7	5.0
CL 307	6.0	6.3	4.0	5.0	4.7	4.3	5.0	5.3	4.7	5.7	4.7	5.0	5.7	4.9
BANDALORE (IS-PR 463)	6.3	6.3	4.3	5.0	4.3	4.3	4.7	5.0	4.7	4.7	5.7	6.0	5.3	4.9
RIO VISTA	6.7	6.7	4.0	5.3	4.7	4.3	5.0	5.0	5.0	4.3	5.0	6.3	5.3	4.9
APR 2445	6.7	7.3	4.0	5.7	5.0	5.0	4.7	4.7	4.3	4.3	4.7	5.7	5.3	4.8
BONNEVILLE	5.7	5.7	3.7	4.7	4.3	4.0	4.7	5.0	4.7	5.3	5.3	5.7	5.3	4.8
INSIGHT	5.7	6.0	4.0	5.0	4.7	5.0	4.3	5.3	5.0	4.0	4.7	5.3	5.0	4.8
IS-PR 488	7.0	6.3	3.7	5.3	5.0	5.0	5.0	4.7	4.7	4.0	5.3	5.7	4.7	4.8
OCTANE	6.3	6.3	3.7	4.7	4.3	4.0	4.7	5.0	5.0	5.0	5.3	5.7	5.3	4.8
FASTBALL RGL (PPG-PR 133)	6.0	6.7	4.0	4.7	5.0	4.7	5.0	4.3	4.0	5.3	5.3	5.7	5.3	4.8
PREMIUM (PPG-PR 137)	6.3	5.7	3.7	5.0	3.7	4.3	4.3	5.0	4.7	5.7	5.3	5.3	5.3	4.8
PPG-PR 138	6.7	6.3	3.7	5.3	5.0	5.0	4.7	5.0	4.7	4.7	4.7	5.3	5.0	4.8
PST-2MG7	6.3	6.3	4.0	5.0	5.0	5.0	4.3	4.0	4.7	4.3	5.3	5.3	5.7	4.8
SIENNA	5.7	5.7	3.7	5.0	4.7	4.0	4.3	5.3	4.7	5.0	5.3	5.3	5.0	4.8
SR 4650 (PSRX-3701)	6.0	6.3	4.0	5.0	4.7	4.7	5.3	5.0	4.3	4.7	4.7	5.3	5.0	4.8
IS-PR 409	6.7	6.3	4.0	5.0	4.3	5.0	4.3	4.7	4.3	4.0	4.7	6.3	5.0	4.7
THRIVE (IS-PR 469)	6.7	6.3	4.0	4.7	4.0	4.3	5.0	4.7	4.3	4.7	5.0	5.7	5.3	4.7
STAMINA (IS-PR 487)	5.7	5.7	4.0	4.7	4.0	4.0	4.3	5.0	4.7	5.3	5.3	5.0	5.3	4.7
IS-PR 492	6.7	6.0	4.0	4.7	4.3	4.0	4.7	4.7	4.7	4.0	4.7	6.3	5.3	4.7
ISG-30	7.7	6.7	4.3	5.0	4.7	4.3	4.7	4.0	4.0	4.7	4.7	6.0	5.3	4.7
MACH I	7.0	6.7	4.0	5.3	4.7	5.3	4.3	4.3	4.3	4.3	4.7	5.7	5.0	4.7
MANHATTAN 6 GLR (PST-2MAGS)	6.7	7.0	4.0	5.7	4.7	5.0	3.7	4.7	4.3	4.7	4.7	5.0	5.3	4.7
APPLE SGL (PPG-PR 140)	6.3	5.7	4.0	5.0	4.3	5.0	4.0	5.0	4.7	4.3	5.0	5.7	4.3	4.7
PRX-4GM1	6.3	6.0	4.0	5.0	4.3	4.0	4.7	4.7	4.7	3.7	4.7	6.7	5.0	4.7
PST-2ACR	6.3	6.0	4.3	5.0	4.7	4.3	4.3	4.3	4.3	4.0	5.3	5.7	5.3	4.7
PST-2BNS	6.0	5.7	3.3	4.7	4.0	4.3	4.7	5.3	4.7	5.3	5.3	4.7	5.0	4.7
CS-PR66	6.0	6.7	3.7	5.3	4.7	5.0	4.0	4.7	4.0	4.7	4.3	5.3	5.0	4.6
PPG-PR 121	6.0	6.3	4.0	5.3	4.3	4.7	4.3	4.3	4.7	4.0	5.0	5.7	4.7	4.6
PPG-PR 128	6.0	6.3	4.0	4.7	4.0	4.3	4.0	4.7	4.7	4.7	5.0	5.7	4.7	4.6
PPG-PR 142	6.3	5.7	4.0	5.0	4.3	4.3	4.7	4.3	4.3	5.0	4.3	5.7	5.0	4.6
PPG-PR 143	6.3	6.3	4.0	4.7	4.3	4.7	4.3	4.3	4.3	4.0	5.3	5.7	4.7	4.6
PPG-PR 165	6.0	5.3	4.0	4.3	4.0	4.0	4.7	4.7	4.7	5.0	5.0	5.7	5.0	4.6
PST-204D	5.7	6.0	3.3	5.0	4.7	4.7	4.3	4.0	5.0	4.7	4.7	5.0	5.0	4.6
PST-2DR9	6.0	6.0	3.7	4.3	4.7	4.7	4.0	4.7	4.7	4.7	5.3	5.0	5.3	4.6
RAD-PR55R	7.0	6.7	3.7	5.3	4.3	4.0	4.0	4.0	4.0	5.0	4.3	6.3	5.3	4.6
WICKED (SRX-4RHD)	6.7	6.7	4.0	5.0	4.3	4.7	4.7	4.7	4.0	4.7	4.7	5.0	5.0	4.6
A-35	7.7	6.7	4.0	5.0	4.0	4.3	4.3	4.0	4.0	4.7	4.7	5.3	5.7	4.5
APR 2036	6.7	6.7	4.0	5.0	4.7	5.0	3.7	4.7	4.3	4.0	4.7	5.0	5.0	4.5
BAR LP 10970	6.0	5.0	3.7	4.3	4.3	4.3	4.0	4.7	4.7	5.3	5.0	4.3	4.3	4.5

TABLE 12. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT POYALLUP (SAND DROUGHT STUDY), WA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
BAR LP 10972	6.3	5.3	3.3	4.3	4.3	5.0	4.0	4.3	4.3	5.0	5.0	5.0	5.0	4.5
BAR LP 7608	5.3	6.7	4.0	5.3	5.0	4.7	3.3	4.3	4.3	4.7	4.3	5.3	4.0	4.5
PILLAR (CST)	6.3	6.0	3.7	4.3	4.3	4.3	4.7	4.3	4.7	4.3	4.7	5.7	5.0	4.5
DLF LGD-3022	6.0	5.7	3.7	4.7	4.0	4.7	4.3	4.3	4.0	4.3	5.0	5.3	5.0	4.5
DOMINATOR (PST-2AG4)	6.3	5.7	4.0	5.0	4.3	5.3	4.3	4.7	4.0	4.3	4.3	5.3	4.3	4.5
HAVEN (APR 2038)	5.7	5.7	3.7	4.7	4.3	4.3	4.0	5.0	4.7	5.0	4.7	5.0	4.3	4.5
BANFIELD (IS-PR 491)	7.0	6.0	3.7	4.7	4.0	4.3	4.7	4.7	4.7	4.3	4.3	5.3	5.3	4.5
JR-178	6.3	5.3	3.7	4.0	4.3	4.3	4.7	5.0	4.3	4.0	4.7	5.3	5.0	4.5
KARMA (PICK 10401)	6.7	5.7	3.3	5.0	4.0	4.3	4.3	4.7	5.0	4.7	5.3	4.3	4.3	4.5
LTP-RAE	6.0	6.3	4.0	5.0	3.7	3.7	4.0	4.3	4.3	5.0	5.3	5.7	5.0	4.5
PANGEA GLR (CL 11701)	7.0	6.3	4.0	5.0	4.3	4.3	4.3	4.7	4.7	4.3	4.3	5.3	4.7	4.5
STELLAR 3GL (PPG-PR 134)	6.3	6.3	3.7	4.3	3.7	4.3	4.3	4.3	4.3	5.0	5.0	5.3	5.0	4.5
PSRX-4CAGL	6.7	6.7	3.7	5.0	4.3	4.3	5.0	4.3	4.3	4.0	4.7	4.7	5.0	4.5
SOX FAN (GM3)	6.3	5.7	4.0	4.3	4.3	4.0	4.7	4.3	3.7	4.7	4.7	5.7	4.7	4.5
UNO	6.0	6.3	3.7	5.0	4.7	4.7	4.3	4.7	4.0	4.3	4.7	5.3	4.7	4.5
2NJK	6.7	5.7	3.0	4.7	4.7	3.7	4.0	4.3	4.0	4.7	4.7	5.7	5.0	4.4
APR 2320	6.0	5.7	3.0	4.7	4.0	4.3	4.3	4.7	4.3	4.7	4.3	5.0	4.7	4.4
BAR LP 10969	6.0	5.7	3.7	4.7	4.3	4.7	4.0	4.3	4.0	4.3	4.3	5.3	4.3	4.4
DLF LGT 4182	6.3	6.7	4.0	5.0	4.3	4.0	4.0	4.3	4.3	4.3	4.3	5.0	4.3	4.4
GO-PR60	7.3	6.0	4.0	4.7	4.0	4.3	3.7	4.0	4.3	4.3	4.3	6.0	4.7	4.4
HANCOCK (IS-PR 479)	7.7	6.7	4.0	4.7	4.3	3.7	4.3	4.0	4.0	4.0	5.0	5.3	5.0	4.4
PALMER V	6.3	6.0	4.0	4.7	4.0	4.7	4.0	5.0	4.3	3.3	4.7	5.0	4.7	4.4
PST-2K9	6.0	6.0	4.0	4.7	4.7	4.0	3.7	4.3	4.3	4.3	4.7	4.3	5.0	4.4
SRX-4MSH	6.0	5.3	3.3	4.7	3.7	4.0	4.0	4.3	4.7	4.3	5.3	5.0	5.0	4.4
ALLANTE	5.7	5.3	3.3	4.3	4.0	4.0	3.7	4.0	4.7	4.7	4.7	5.7	4.7	4.3
PROMINENT (CS-20)	7.3	7.0	4.0	5.0	4.3	4.3	4.0	4.0	4.0	3.7	4.3	5.0	4.7	4.3
FIESTA 4	6.7	6.3	4.0	5.0	4.0	4.3	4.3	4.0	4.0	3.7	4.3	5.3	4.3	4.3
GO-G37	7.0	6.0	3.7	5.0	4.0	4.7	4.3	4.3	3.3	4.0	4.0	5.0	5.0	4.3
ISG-36	7.7	6.7	3.7	5.3	3.7	4.3	4.0	4.0	3.7	4.0	4.0	6.0	4.7	4.3
PICK 4DFHM	6.0	5.3	3.7	4.3	4.0	4.3	3.7	4.0	3.7	4.0	4.7	6.0	4.7	4.3
PST-2TQL	6.7	6.0	3.7	5.0	4.0	4.3	3.7	3.7	4.0	4.7	4.7	5.3	4.7	4.3
BRIGHTSTAR SLT	5.3	5.3	3.0	4.0	4.3	4.0	3.7	4.3	4.3	4.3	4.3	5.7	4.0	4.2
DLF LGD-3026	7.0	6.3	3.7	4.3	3.7	4.3	4.0	4.0	4.0	4.3	4.3	5.0	4.0	4.2
ISG-31	6.7	6.7	3.7	5.3	4.3	5.0	3.7	4.3	3.7	3.7	4.0	4.7	4.3	4.2
LTP-PR 135	6.0	5.7	3.7	4.7	3.7	4.3	4.3	4.0	4.0	4.3	4.3	4.3	5.0	4.2
PLAYOFF 2 (P02)	6.3	5.3	3.0	4.3	4.3	4.0	3.3	4.0	4.0	4.7	4.3	5.0	5.0	4.2
PINNACLE	4.7	6.0	3.0	4.7	4.3	4.0	3.3	4.7	3.7	4.0	4.3	4.7	4.0	4.1
RAD-PR62	6.3	5.3	3.3	4.7	3.7	3.7	4.7	4.0	4.0	4.3	4.0	4.7	4.0	4.1
GO-DHS	8.0	5.7	3.3	4.0	3.7	3.7	3.7	4.0	4.3	4.0	4.0	4.7	5.0	4.0
JR-192	7.0	5.0	3.0	4.0	4.0	4.0	4.3	4.0	4.0	4.3	3.7	4.7	4.0	4.0
LINN	5.0	5.7	3.0	4.3	4.0	3.7	3.3	4.3	4.0	4.0	4.0	6.0	3.3	4.0
LSD VALUE	0.9	2.6	0.8	2.3	2.6	3.0	1.4	1.8	2.3	1.6	1.6	3.6	1.8	0.7
C.V. (%)	8.2	13.1	10.5	13.1	14.9	17.2	15.0	13.7	14.1	14.4	14.0	16.3	14.1	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 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 (CONT'D)

AT POYALLUP (SAND DROUGHT STUDY), WA 1/
 2012 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER	FALL COLOR	MOWING QUALITY		RED THREAD RATINGS		
	FALL	OCTOBER	JUNE	JULY	FEBRUARY	NOVEMBER	DECEMBER
PIZZAZZ 2 GLR (PR 909)	91.7	6.7	9.0	7.7	4.7	5.3	6.7
GRAND SLAM GLD (PPG-PR 164)	76.7	7.0	8.3	7.3	4.3	5.3	6.7
PPG-PR 136	80.0	7.0	8.3	7.7	4.3	5.3	6.3
CL 11601	80.0	6.3	7.7	7.0	4.3	5.7	6.3
EVOLUTION (S85)	83.3	7.0	6.7	7.3	4.3	6.3	6.7
ASPAIRE (IS-PR 489)	83.3	6.0	7.7	6.3	4.3	5.3	6.3
PST-2NKM	83.3	6.7	8.0	6.7	4.0	6.0	6.7
RINOVO	76.7	6.3	8.7	7.3	5.0	6.3	5.0
SIDEWAYS (PSRX-S84)	73.3	7.0	8.0	5.7	4.7	5.3	6.0
CL 307	86.7	7.0	9.0	8.7	4.0	5.0	6.0
BANDALORE (IS-PR 463)	81.7	7.0	7.7	7.7	4.7	5.3	6.3
RIO VISTA	80.0	6.7	7.7	6.7	4.3	5.7	5.3
APR 2445	70.0	7.3	6.3	6.0	5.0	5.3	5.3
BONNEVILLE	86.7	6.7	8.0	7.7	4.3	5.0	6.0
INSIGHT	76.7	6.3	8.7	9.0	3.3	5.0	5.3
IS-PR 488	80.0	6.7	8.3	7.0	3.3	5.3	4.3
OCTANE	80.0	6.7	7.7	7.7	4.0	5.0	5.3
FASTBALL RGL (PPG-PR 133)	80.0	6.3	8.3	6.7	4.3	5.3	6.0
PREMIUM (PPG-PR 137)	90.0	6.7	8.0	7.3	3.7	4.7	5.7
PPG-PR 138	86.7	7.3	8.0	7.3	3.3	4.3	4.7
PST-2MG7	76.7	7.0	6.3	6.3	4.0	5.0	6.0
SIENNA	83.3	6.3	8.7	8.7	3.0	5.0	5.0
SR 4650 (PSRX-3701)	86.7	6.7	8.7	7.0	4.3	5.0	6.3
IS-PR 409	73.3	7.0	6.7	6.7	4.0	5.7	5.7
THRIVE (IS-PR 469)	80.0	6.7	8.3	7.0	4.7	5.3	5.7
STAMINA (IS-PR 487)	86.7	6.3	8.7	8.3	4.0	4.7	5.7
IS-PR 492	80.0	6.7	8.7	7.3	4.0	5.3	6.0
ISG-30	76.7	8.0	5.3	4.7	4.3	6.0	5.7
MACH I	83.3	7.0	7.7	6.7	4.7	5.3	5.0
MANHATTAN 6 GLR (PST-2MAGS)	73.3	7.3	8.0	6.7	5.0	4.3	6.3
APPLE SGL (PPG-PR 140)	76.7	7.0	6.7	6.3	3.3	5.0	5.3
PRX-4GM1	66.7	6.3	5.0	5.0	4.3	6.3	6.0
PST-2ACR	70.0	7.0	6.7	6.0	4.0	5.7	6.3
PST-2BNS	86.7	6.3	8.3	8.7	3.3	4.0	5.0
CS-PR66	76.7	7.3	7.0	6.3	3.3	4.7	4.7
PPG-PR 121	80.0	6.7	8.3	6.3	4.0	5.7	5.7
PPG-PR 128	73.3	6.7	7.3	6.0	4.3	5.3	5.7
PPG-PR 142	80.0	6.7	8.3	6.7	4.0	5.0	5.3
PPG-PR 143	70.0	6.3	8.0	7.0	4.0	5.0	5.3
PPG-PR 165	83.3	7.0	8.0	7.3	3.3	5.7	5.7
PST-204D	83.3	6.3	7.3	7.3	3.0	5.0	6.0
PST-2DR9	76.7	7.0	6.7	6.3	3.3	5.0	6.3
RAD-PR55R	76.7	7.0	6.0	6.3	4.3	5.7	5.7
WICKED (SRX-4RHD)	76.7	7.0	8.3	7.0	4.3	4.7	6.0
A-35	76.7	8.0	7.0	7.0	4.7	4.7	6.0
APR 2036	63.3	7.0	8.0	7.0	4.3	5.3	6.0
BAR LP 10970	80.0	6.3	7.7	7.7	3.3	5.0	4.0

TABLE 12 MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 (CONT'D) AT PUYALLUP (SAND DROUGHT STUDY), WA 1/
 2012 DATA

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

NAME	PERCENT	FALL	MOWING QUALITY		RED THREAD RATINGS		
	COVER FALL	COLOR OCTOBER	JUNE	JULY	FEBRUARY	NOVEMBER	DECEMBER
BAR LP 10972	80.0	7.0	7.3	6.3	2.7	4.7	5.7
BAR LP 7608	86.7	6.0	6.7	6.7	4.3	5.0	4.3
PILLAR (CST)	80.0	6.7	7.7	6.7	3.7	5.7	5.0
DLF LGD-3022	76.7	6.3	7.7	6.3	4.0	4.3	5.0
DOMINATOR (PST-2AG4)	76.7	6.0	7.7	7.0	3.7	4.7	4.0
HAVEN (APR 2038)	83.3	6.0	7.7	7.7	3.3	5.3	5.0
BANFIELD (IS-PR 491)	76.7	7.0	8.3	7.0	3.7	5.3	6.7
JR-178	73.3	7.0	8.3	8.7	3.7	5.3	5.0
KARMA (PICK 10401)	85.0	6.7	8.7	7.7	3.0	5.3	5.0
LTP-RAE	80.0	6.7	9.0	8.7	3.3	5.0	5.0
PANGEA GLR (CL 11701)	73.3	7.0	8.0	6.3	4.0	4.7	5.3
STELLAR 3GL (PPG-PR 134)	71.7	6.7	8.3	7.3	3.0	5.0	5.3
PSRX-4CAGL	76.7	7.3	7.0	5.7	4.3	4.7	5.3
SOX FAN (GM3)	80.0	6.3	8.3	6.0	4.0	4.7	5.3
UNO	73.3	7.0	8.3	6.7	4.0	5.0	5.0
2NJK	76.7	7.0	5.7	5.0	3.3	5.0	5.0
APR 2320	80.0	7.0	8.3	8.0	2.7	5.0	5.7
BAR LP 10969	76.7	6.3	5.3	5.7	3.3	4.7	4.0
DLF LGT 4182	66.7	7.3	6.7	5.7	5.0	5.3	6.0
GO-PR60	80.0	7.7	6.7	7.0	4.0	5.3	4.7
HANCOCK (IS-PR 479)	73.3	7.3	8.0	6.7	5.0	5.3	6.0
PALMER V	73.3	6.7	8.0	6.7	4.7	5.0	5.0
PST-2K9	73.3	7.0	7.0	6.3	3.3	4.7	5.7
SRX-4MSH	76.7	6.3	7.3	6.3	3.3	4.7	5.0
ALLANTE	76.7	6.3	8.3	7.7	2.7	5.7	5.0
PROMINENT (CS-20)	63.3	8.0	4.3	4.0	4.3	5.0	6.0
FIESTA 4	70.0	6.7	6.7	6.3	4.0	5.0	5.3
GO-G37	70.0	7.7	6.0	4.7	4.0	5.0	4.7
ISG-36	70.0	8.0	6.3	5.0	3.7	6.3	5.0
PICK 4DFHM	76.7	6.3	6.0	5.3	3.7	5.7	5.0
PST-2TQL	71.7	6.7	7.0	6.3	3.0	5.7	5.0
BRIGHTSTAR SLT	73.3	6.0	7.0	7.0	3.0	4.7	4.7
DLF LGD-3026	66.7	6.7	4.0	3.7	4.7	5.0	4.7
ISG-31	63.3	7.3	4.3	4.0	4.0	4.0	4.7
LTP-PR 135	75.0	6.7	8.3	7.3	3.3	4.3	5.3
PLAYOFF 2 (P02)	83.3	7.0	5.3	5.3	3.0	5.0	5.0
PINNACLE	86.7	5.0	5.3	6.7	2.7	4.7	3.3
RAD-PR62	80.0	6.3	8.0	6.0	3.3	4.7	4.3
GO-DHS	70.0	8.0	5.3	5.3	3.3	5.7	5.3
JR-192	66.7	6.7	8.3	8.0	3.0	4.3	4.0
LINN	90.0	5.0	1.0	5.0	3.0	5.3	3.0
LSD VALUE	28.2	0.8	2.1	1.6	1.5	2.9	2.0
C.V. (%)	12.2	6.9	17.2	14.5	19.7	15.7	17.7

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

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

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

NAME	IL1	MA1	MN1	MO1	NE1	NJ2	OR1	MEAN
A-35	7.7	8.3	8.7	8.7	7.3	6.0	7.3	7.7
ISG-36	7.3	8.0	8.3	8.7	8.0	5.7	7.7	7.7
GO-DHS	7.0	8.3	8.0	8.0	8.0	6.7	6.3	7.5
GO-G37	8.0	8.0	7.3	7.7	7.7	6.3	7.3	7.5
PROMINENT (CS-20)	8.0	8.0	7.0	8.0	8.0	6.0	7.3	7.5
ISG-30	7.0	8.0	7.7	7.3	7.7	6.7	7.3	7.4
DLF LGT 4182	7.7	8.0	7.0	8.0	7.0	6.0	7.0	7.2
RAD-PR55R	6.0	8.3	6.7	7.7	7.3	7.0	7.3	7.2
ISG-31	7.3	8.0	6.0	7.7	8.0	5.7	7.0	7.1
FIESTA 4	6.7	7.0	6.3	7.0	7.0	7.3	7.3	7.0
HANCOCK (IS-PR 479)	6.7	7.7	7.0	7.7	7.3	5.3	7.0	7.0
PANGEA GLR (CL 11701)	6.0	7.0	6.7	7.3	7.3	7.0	7.0	6.9
BANFIELD (IS-PR 491)	6.3	6.7	6.7	6.3	7.0	7.0	8.0	6.9
CS-PR66	6.7	7.3	6.7	7.7	7.3	5.3	6.7	6.8
IS-PR 409	6.3	7.7	6.0	7.7	7.0	5.7	7.3	6.8
MACH I	6.0	8.0	5.7	7.0	7.0	6.3	7.7	6.8
GO-PR60	5.7	8.0	6.0	7.3	7.3	6.7	6.7	6.8
THRIVE (IS-PR 469)	6.3	7.0	6.0	7.7	7.0	6.7	7.0	6.8
EVOLUTION (S85)	6.0	7.0	6.7	7.3	7.0	6.0	7.3	6.8
APR 2036	6.3	7.0	5.7	8.0	6.7	6.0	7.3	6.7
MANHATTAN 6 GLR (PST-2MAGS)	6.0	7.3	6.0	7.0	7.0	6.3	7.3	6.7
PALMER V	5.7	6.7	6.3	7.7	7.0	7.0	6.7	6.7
PSRX-4CAGL	6.7	7.3	6.3	6.7	7.0	6.3	6.7	6.7
PPG-PR 136	6.3	7.0	6.3	6.7	7.0	6.0	7.3	6.7
GRAND SLAM GLD (PPG-PR 164)	6.0	6.3	5.7	7.0	6.7	7.0	7.3	6.6
IS-PR 492	6.0	7.3	5.3	7.0	7.0	6.3	7.0	6.6
PST-2MG7	6.3	7.3	6.0	7.0	7.0	5.0	7.3	6.6
APR 2445	6.0	7.7	5.7	6.3	7.0	6.3	6.7	6.5
BANDALORE (IS-PR 463)	5.7	6.7	5.7	6.7	7.0	6.7	7.3	6.5
SR 4650 (PSRX-3701)	6.0	6.7	6.3	6.7	7.0	5.7	7.3	6.5
CL 307	6.0	7.0	6.0	6.3	7.0	6.0	7.3	6.5
PIZZAZZ 2 GLR (PR 909)	5.7	6.7	6.0	7.0	7.0	6.7	6.7	6.5
RINOVO	5.7	7.0	6.3	7.3	6.7	6.0	6.7	6.5
LTP-RAE	5.7	6.7	6.7	6.7	7.0	5.3	7.3	6.5
RIO VISTA	6.0	6.7	5.7	6.7	7.0	6.3	7.0	6.5
ASPAIRE (IS-PR 489)	6.3	7.0	4.3	7.0	7.0	6.7	7.0	6.5
DLF LGD-3026	6.3	7.3	6.0	6.7	7.0	5.0	7.0	6.5
PREMIUM (PPG-PR 137)	6.3	6.7	6.3	6.0	7.0	6.0	7.0	6.5
RAD-PR62	5.7	7.0	6.3	7.3	7.0	5.0	7.0	6.5
DOMINATOR (PST-2AG4)	6.3	6.3	5.3	7.7	7.0	5.3	7.0	6.4
PPG-PR 165	6.0	6.0	5.7	7.0	7.0	6.0	7.3	6.4
OCTANE	6.0	6.0	5.7	7.7	7.0	5.7	7.0	6.4
PRX-4GM1	6.0	7.0	5.7	6.7	7.0	5.7	7.0	6.4
SOX FAN (GM3)	6.0	7.0	5.3	6.7	7.0	6.0	7.0	6.4
SIDEWAYS (PSRX-S84)	5.7	6.3	5.7	6.7	6.7	7.0	6.7	6.4
PPG-PR 121	5.7	7.0	5.0	7.0	7.0	5.7	7.0	6.3
PPG-PR 138	6.0	6.7	6.0	6.7	7.0	5.0	7.0	6.3

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
NAME	IL1	MA1	MN1	MO1	NE1	NJ2	OR1	MEAN
PST-2ACR	6.0	6.7	5.7	6.7	7.0	5.3	7.0	6.3
IS-PR 488	6.7	6.7	5.7	6.3	7.0	5.0	7.0	6.3
JR-178	6.0	6.3	5.3	6.7	7.0	6.0	7.0	6.3
PPG-PR 143	6.0	6.3	5.7	7.0	7.0	5.0	7.0	6.3
PST-2K9	5.7	7.0	5.0	7.3	7.0	5.0	7.0	6.3
STELLAR 3GL (PPG-PR 134)	6.0	6.7	4.7	6.0	7.0	6.3	7.0	6.2
UNO	6.0	6.3	5.7	6.3	7.0	5.7	6.7	6.2
APR 2320	6.0	6.3	6.0	6.3	7.0	4.3	7.0	6.1
BONNEVILLE	5.7	6.3	4.3	7.3	7.0	5.3	7.0	6.1
KARMA (PICK 10401)	5.7	6.0	5.3	6.7	7.0	5.3	7.0	6.1
PPG-PR 142	6.0	6.7	5.3	6.0	7.0	5.0	7.0	6.1
APPLE SGL (PPG-PR 140)	5.7	6.7	5.7	6.3	7.0	4.3	7.0	6.1
PILLAR (CST)	6.0	6.3	5.7	7.0	7.0	4.0	6.7	6.1
PPG-PR 128	6.3	6.0	4.7	6.3	7.0	5.0	7.3	6.1
CL 11601	6.0	5.7	5.0	6.7	6.7	5.3	7.0	6.0
FASTBALL RGL (PPG-PR 133)	5.7	6.7	5.0	6.3	7.0	4.7	7.0	6.0
JR-192	6.3	5.7	6.3	6.7	7.0	4.3	6.0	6.0
PICK 4DFHM	6.0	6.7	5.0	6.7	7.0	4.3	6.7	6.0
PLAYOFF 2 (P02)	5.3	6.3	5.3	7.0	7.0	4.3	7.0	6.0
WICKED (SRX-4RHD)	6.3	6.0	4.7	6.3	6.7	5.3	7.0	6.0
DLF LGD-3022	6.0	6.3	5.3	6.3	6.7	4.7	7.0	6.0
PST-2NKM	5.0	6.3	5.0	7.0	7.0	5.3	6.7	6.0
BAR LP 10969	5.7	7.0	4.7	7.0	7.0	4.0	6.7	6.0
BAR LP 10972	5.7	6.0	5.0	7.3	7.0	4.3	6.7	6.0
LTP-PR 135	6.0	6.0	5.3	6.0	7.0	4.7	7.0	6.0
SRX-4MSH	5.7	6.0	4.3	7.3	7.0	5.0	6.7	6.0
2NJK	6.3	5.7	5.3	6.0	7.0	4.3	7.0	6.0
BAR LP 10970	6.3	6.7	4.3	7.0	7.0	3.7	6.7	6.0
PST-2DR9	5.7	6.3	5.0	6.0	7.0	4.7	7.0	6.0
PST-2BNS	5.7	6.0	5.0	6.3	7.0	4.3	7.0	5.9
STAMINA (IS-PR 487)	6.0	6.7	4.3	6.3	7.0	4.3	6.7	5.9
HAVEN (APR 2038)	6.0	6.0	4.0	7.0	7.0	4.3	6.7	5.9
PST-2TQL	5.3	6.3	4.3	6.7	7.0	4.7	6.3	5.8
PST-204D	5.7	5.7	4.7	6.0	7.0	4.3	7.0	5.8
ALLANTE	5.7	5.7	5.3	6.7	6.0	4.0	6.7	5.7
BRIGHTSTAR SLT	6.0	5.7	4.3	6.3	7.0	4.3	6.3	5.7
SIENNA	5.3	5.7	5.0	6.7	6.3	4.3	6.7	5.7
INSIGHT	5.3	5.3	4.3	6.3	6.0	4.0	7.0	5.5
BAR LP 7608	5.0	5.7	3.7	5.7	7.0	2.7	6.3	5.1
PINNACLE	4.0	4.7	2.0	5.3	6.0	2.0	5.3	4.2
LINN	3.0	4.0	1.0	4.0	4.0	1.0	6.0	3.3
LSD VALUE	0.9	1.0	1.2	1.1	0.4	1.4	0.8	0.4
C.V. (%)	9.1	9.4	13.2	9.9	3.5	15.8	7.4	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 14. SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP 2012 DATA

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

NAME	IL1	MA1	NE1	MEAN	NAME	IL1	MA1	NE1	MEAN
CL 11601	7.3	5.3	5.0	5.9	ISG-31	5.7	4.7	5.0	5.1
EVOLUTION (S85)	6.0	5.7	5.7	5.8	PPG-PR 128	6.0	4.7	4.7	5.1
IS-PR 492	6.7	5.3	5.0	5.7	PROMINENT (CS-20)	5.7	4.7	5.0	5.1
APR 2320	5.7	5.0	6.0	5.6	PSRX-4CAGL	5.7	4.7	5.0	5.1
ASPAIRE (IS-PR 489)	6.7	4.3	5.7	5.6	RAD-PR62	6.0	4.7	4.7	5.1
DLF LGD-3022	7.0	5.0	4.7	5.6	RINOVO	6.0	4.7	4.7	5.1
LTP-PR 135	6.0	5.7	5.0	5.6	SRX-4MSH	5.7	4.7	5.0	5.1
PPG-PR 165	6.0	5.0	5.7	5.6	APR 2036	5.3	5.7	4.3	5.1
KARMA (PICK 10401)	7.0	4.3	5.3	5.6	BAR LP 10969	5.0	5.0	5.3	5.1
PST-2BNS	6.3	5.3	5.0	5.6	BONNEVILLE	6.0	5.0	4.3	5.1
SOX FAN (GM3)	6.3	5.3	5.0	5.6	PILLAR (CST)	6.0	5.0	4.3	5.1
SR 4650 (PSRX-3701)	6.3	5.3	5.0	5.6	PPG-PR 136	6.0	4.3	5.0	5.1
A-35	5.7	5.7	5.0	5.4	UNO	5.3	5.0	5.0	5.1
JR-178	6.7	4.7	5.0	5.4	CS-PR66	5.3	4.7	5.0	5.0
LTP-RAE	7.0	4.7	4.7	5.4	GO-DHS	5.0	4.7	5.3	5.0
BANFIELD (IS-PR 491)	5.7	5.3	5.3	5.4	IS-PR 488	6.0	4.0	5.0	5.0
GO-G37	6.3	5.0	5.0	5.4	OCTANE	5.0	5.0	5.0	5.0
IS-PR 409	6.0	5.3	5.0	5.4	PICK 4DFHM	5.7	4.7	4.7	5.0
MANHATTAN 6 GLR (PST-2MAGS)	6.3	5.3	4.7	5.4	PST-2MG7	6.3	4.0	4.7	5.0
SIDEWAYS (PSRX-S84)	6.3	5.3	4.7	5.4	SIENNA	5.0	5.0	5.0	5.0
STAMINA (IS-PR 487)	6.3	5.0	5.0	5.4	APPLE SGL (PPG-PR 140)	5.3	4.7	4.7	4.9
WICKED (SRX-4RHD)	6.7	4.3	5.3	5.4	BAR LP 7608	4.7	5.0	5.0	4.9
BANDALORE (IS-PR 463)	5.7	5.3	5.0	5.3	DLF LGT 4182	5.7	4.3	4.7	4.9
DLF LGD-3026	6.0	4.7	5.3	5.3	FIESTA 4	5.0	4.7	5.0	4.9
GRAND SLAM GLD (PPG-PR 164)	6.0	5.0	5.0	5.3	MACH I	4.7	5.0	5.0	4.9
ISG-36	6.7	4.3	5.0	5.3	PANGEA GLR (CL 11701)	5.3	4.7	4.7	4.9
PALMER V	5.7	4.7	5.7	5.3	PINNACLE	5.7	5.0	4.0	4.9
PIZZAZZ 2 GLR (PR 909)	6.3	4.7	5.0	5.3	PPG-PR 121	4.7	5.0	5.0	4.9
PRX-4GM1	5.7	5.3	5.0	5.3	PPG-PR 138	5.0	4.7	5.0	4.9
RAD-PR55R	5.3	5.3	5.3	5.3	PPG-PR 142	5.3	4.7	4.7	4.9
RIO VISTA	5.3	5.3	5.3	5.3	JR-192	6.0	3.7	5.0	4.9
ALLANTE	6.0	4.0	5.7	5.2	PST-2DR9	5.3	5.0	4.3	4.9
DOMINATOR (PST-2AG4)	6.0	4.7	5.0	5.2	THRIVE (IS-PR 469)	5.3	4.3	5.0	4.9
FASTBALL RGL (PPG-PR 133)	6.0	5.0	4.7	5.2	CL 307	5.0	4.3	5.0	4.8
GO-PR60	4.7	5.7	5.3	5.2	INSIGHT	4.3	4.3	5.7	4.8
HANCOCK (IS-PR 479)	5.3	4.7	5.7	5.2	PPG-PR 143	5.0	4.3	5.0	4.8
HAVEN (APR 2038)	5.7	4.7	5.3	5.2	PREMIUM (PPG-PR 137)	5.3	4.0	5.0	4.8
ISG-30	6.0	4.7	5.0	5.2	PST-204D	5.0	4.3	5.0	4.8
PLAYOFF 2 (P02)	5.7	5.0	5.0	5.2	2NJK	4.7	4.7	4.7	4.7
PST-2ACR	6.3	4.3	5.0	5.2	BAR LP 10970	5.0	4.7	4.3	4.7
PST-2K9	5.7	4.3	5.7	5.2	PST-2NKM	4.7	4.0	5.0	4.6
STELLAR 3GL (PPG-PR 134)	5.7	5.0	5.0	5.2	BAR LP 10972	5.3	3.3	4.3	4.3
PST-2TQL	6.3	4.0	5.3	5.2	LINN	5.0	4.0	3.0	4.0
APR 2445	5.7	4.7	5.0	5.1					
BRIGHTSTAR SLT	6.0	4.7	4.7	5.1	LSD VALUE	1.8	0.9	0.7	0.7
					C.V. (%)	19.0	11.5	9.0	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 15 LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 2012 DATA

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

NAME	MO1	NAME	MO1
DLF LGD-3026	6.7	FIESTA 4	6.0
GO-G37	6.7	GO-PR60	6.0
HAVEN (APR 2038)	6.7	GRAND SLAM GLD (PPG-PR 164)	6.0
MACH I	6.7	HANCOCK (IS-PR 479)	6.0
PPG-PR 136	6.7	IS-PR 409	6.0
BANDALORE (IS-PR 463)	6.3	IS-PR 488	6.0
BAR LP 7608	6.3	ISG-36	6.0
BRIGHTSTAR SLT	6.3	JR-178	6.0
CS-PR66	6.3	KARMA (PICK 10401)	6.0
DLF LGT 4182	6.3	LTP-PR 135	6.0
DOMINATOR (PST-2AG4)	6.3	LTP-RAE	6.0
FASTBALL RGL (PPG-PR 133)	6.3	MANHATTAN 6 GLR (PST-2MAGS)	6.0
INSIGHT	6.3	PALMER V	6.0
IS-PR 492	6.3	PANGEA GLR (CL 11701)	6.0
ISG-30	6.3	PILLAR (CST)	6.0
ISG-31	6.3	PINNACLE	6.0
PICK 4DFHM	6.3	PIZZAZZ 2 GLR (PR 909)	6.0
PLAYOFF 2 (P02)	6.3	PPG-PR 121	6.0
PPG-PR 138	6.3	PPG-PR 128	6.0
PPG-PR 165	6.3	PPG-PR 142	6.0
PSRX-4CAGL	6.3	PPG-PR 143	6.0
PST-2MG7	6.3	PREMIUM (PPG-PR 137)	6.0
PST-2NKM	6.3	PROMINENT (CS-20)	6.0
RAD-PR62	6.3	PRX-4GM1	6.0
SIDEWAYS (PSRX-S84)	6.3	PST-204D	6.0
SR 4650 (PSRX-3701)	6.3	PST-2ACR	6.0
SRX-4MSH	6.3	PST-2BNS	6.0
WICKED (SRX-4RHD)	6.3	PST-2DR9	6.0
2NJK	6.0	PST-2K9	6.0
A-35	6.0	PST-2TQL	6.0
ALLANTE	6.0	RAD-PR55R	6.0
APPLE SGL (PPG-PR 140)	6.0	RINOVO	6.0
APR 2036	6.0	RIO VISTA	6.0
APR 2320	6.0	SIENNA	6.0
APR 2445	6.0	SOX FAN (GM3)	6.0
ASPAIRE (IS-PR 489)	6.0	STAMINA (IS-PR 487)	6.0
BANFIELD (IS-PR 491)	6.0	STELLAR 3GL (PPG-PR 134)	6.0
BAR LP 10969	6.0	THRIVE (IS-PR 469)	6.0
BAR LP 10970	6.0	GO-DHS	5.7
BAR LP 10972	6.0	JR-192	5.3
BONNEVILLE	6.0	OCTANE	5.3
CL 11601	6.0	UNO	5.3
CL 307	6.0	LINN	3.3
DLF LGD-3022	6.0		
EVOLUTION (S85)	6.0	LSD VALUE	0.7
		C.V. (%)	6.8

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

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

TABLE 16 SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 2012 DATA

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

NAME	MA1	NAME	MA1
CL 11601	6.7	RINOVO	6.0
INSIGHT	6.7	SIDEWAYS (PSRX-S84)	6.0
PPG-PR 121	6.7	SIENNA	6.0
STAMINA (IS-PR 487)	6.7	SOX FAN (GM3)	6.0
APPLE SGL (PPG-PR 140)	6.3	SR 4650 (PSRX-3701)	6.0
APR 2036	6.3	STELLAR 3GL (PPG-PR 134)	6.0
APR 2445	6.3	THRIVE (IS-PR 469)	6.0
BANDALORE (IS-PR 463)	6.3	UNO	6.0
BANFIELD (IS-PR 491)	6.3	WICKED (SRX-4RHD)	6.0
BAR LP 10970	6.3	ALLANTE	5.7
BAR LP 7608	6.3	BRIGHTSTAR SLT	5.7
BONNEVILLE	6.3	DOMINATOR (PST-2AG4)	5.7
DLF LGD-3022	6.3	ISG-30	5.7
FIESTA 4	6.3	KARMA (PICK 10401)	5.7
HANCOCK (IS-PR 479)	6.3	LTP-PR 135	5.7
IS-PR 409	6.3	LTP-RAE	5.7
IS-PR 488	6.3	MANHATTAN 6 GLR (PST-2MAGS)	5.7
OCTANE	6.3	PICK 4DFHM	5.7
PPG-PR 136	6.3	PILLAR (CST)	5.7
PPG-PR 138	6.3	PPG-PR 128	5.7
PST-2BNS	6.3	PRX-4GM1	5.7
RIO VISTA	6.3	PSRX-4CAGL	5.7
SRX-4MSH	6.3	PST-2DR9	5.7
2NJK	6.0	PST-2K9	5.7
APR 2320	6.0	ASPAIRE (IS-PR 489)	5.3
BAR LP 10969	6.0	HAVEN (APR 2038)	5.3
CL 307	6.0	ISG-31	5.3
CS-PR66	6.0	PANGEA GLR (CL 11701)	5.3
DLF LGD-3026	6.0	PLAYOFF 2 (P02)	5.3
EVOLUTION (S85)	6.0	PST-204D	5.3
FASTBALL RGL (PPG-PR 133)	6.0	PST-2NKM	5.3
GO-PR60	6.0	A-35	5.0
GRAND SLAM GLD (PPG-PR 164)	6.0	BAR LP 10972	5.0
IS-PR 492	6.0	GO-G37	5.0
JR-178	6.0	ISG-36	5.0
MACH I	6.0	JR-192	5.0
PALMER V	6.0	PROMINENT (CS-20)	5.0
PINNACLE	6.0	PST-2ACR	5.0
PIZZAZZ 2 GLR (PR 909)	6.0	PST-2MG7	5.0
PPG-PR 142	6.0	RAD-PR62	5.0
PPG-PR 143	6.0	GO-DHS	4.7
PPG-PR 165	6.0	DLF LGT 4182	4.3
PREMIUM (PPG-PR 137)	6.0	LINN	3.3
PST-2TQL	6.0		
RAD-PR55R	6.0	LSD VALUE	1.0
		C.V. (%)	10.8

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 17. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 2012 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	M01	NAME	M01
2NJK	91.7	RAD-PR55R	78.3
CS-PR66	90.0	IS-PR 492	76.7
PICK 4DFHM	90.0	ISG-30	76.7
PST-2K9	88.3	ISG-36	76.7
SRX-4MSH	88.3	LTP-PR 135	76.7
UNO	88.3	PILLAR (CST)	76.7
BAR LP 10970	86.7	BONNEVILLE	75.0
BANFIELD (IS-PR 491)	85.0	IS-PR 409	75.0
BAR LP 7608	85.0	PLAYOFF 2 (P02)	75.0
DLF LGT 4182	85.0	PST-2DR9	75.0
GO-DHS	85.0	PST-2TQL	75.0
ISG-31	85.0	PALMER V	73.3
PREMIUM (PPG-PR 137)	85.0	PANGEA GLR (CL 11701)	73.3
BAR LP 10972	83.3	PPG-PR 165	73.3
GO-G37	83.3	PROMINENT (CS-20)	73.3
PPG-PR 121	83.3	SOX FAN (GM3)	73.3
PST-2ACR	83.3	SR 4650 (PSRX-3701)	73.3
PST-2NKM	83.3	APR 2320	71.7
THRIVE (IS-PR 469)	83.3	LINN	71.7
WICKED (SRX-4RHD)	83.3	MANHATTAN 6 GLR (PST-2MAGS)	71.7
STELLAR 3GL (PPG-PR 134)	83.0	APR 2036	70.0
APR 2445	81.7	ASPAIRE (IS-PR 489)	70.0
BANDALORE (IS-PR 463)	81.7	BRIGHTSTAR SLT	70.0
IS-PR 488	81.7	PPG-PR 136	70.0
JR-192	81.7	PRX-4GM1	70.0
MACH I	81.7	RINOVO	70.0
SIDEWAYS (PSRX-S84)	81.7	PPG-PR 138	68.3
A-35	80.0	PPG-PR 142	68.3
APPLE SGL (PPG-PR 140)	80.0	CL 11601	66.7
BAR LP 10969	80.0	DLF LGD-3022	66.7
EVOLUTION (S85)	80.0	PPG-PR 143	66.7
FIESTA 4	80.0	PST-204D	66.7
GO-PR60	80.0	HANCOCK (IS-PR 479)	65.0
JR-178	80.0	LTP-RAE	65.0
PPG-PR 128	80.0	RIO VISTA	63.3
RAD-PR62	80.0	SIENNA	61.7
STAMINA (IS-PR 487)	80.0	INSIGHT	60.0
CL 307	78.3	PSRX-4CAGL	60.0
DOMINATOR (PST-2AG4)	78.3	PIZZAZZ 2 GLR (PR 909)	56.7
FASTBALL RGL (PPG-PR 133)	78.3	ALLANTE	55.0
HAVEN (APR 2038)	78.3	DLF LGD-3026	55.0
KARMA (PICK 10401)	78.3	GRAND SLAM GLD (PPG-PR 164)	55.0
OCTANE	78.3		
PINNACLE	78.3	LSD VALUE	19.6
PST-2BNS	78.3	C.V. (%)	16.0
PST-2MG7	78.3		

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	M01	NAME	M01
2NJK	88.3	SOX FAN (GM3)	75.0
A-35	86.7	DOMINATOR (PST-2AG4)	73.3
BAR LP 10972	86.7	HAVEN (APR 2038)	73.3
GO-DHS	86.7	IS-PR 492	73.3
PICK 4DFHM	86.7	JR-192	73.3
BAR LP 10970	85.0	LTP-RAE	73.3
CS-PR66	85.0	SIDEWAYS (PSRX-S84)	73.3
MACH I	85.0	APPLE SGL (PPG-PR 140)	71.7
SRX-4MSH	85.0	BAR LP 10969	71.7
DLF LGT 4182	83.3	GRAND SLAM GLD (PPG-PR 164)	71.7
PST-2ACR	83.3	PST-204D	71.7
RAD-PR62	83.3	LINN	70.0
THRIVE (IS-PR 469)	83.3	PINNACLE	70.0
BAR LP 7608	81.7	PST-2DR9	70.0
FIESTA 4	81.7	APR 2320	68.3
KARMA (PICK 10401)	81.7	APR 2445	68.3
PALMER V	81.7	EVOLUTION (S85)	68.3
PANGEA GLR (CL 11701)	81.7	PIZZAZZ 2 GLR (PR 909)	68.3
PILLAR (CST)	81.7	DLF LGD-3022	66.7
PST-2K9	81.7	PPG-PR 143	66.7
RAD-PR55R	81.7	PROMINENT (CS-20)	66.7
UNO	81.7	RIO VISTA	66.7
WICKED (SRX-4RHD)	81.7	ALLANTE	65.0
BONNEVILLE	80.0	LTP-PR 135	65.0
CL 307	80.0	PPG-PR 138	65.0
GO-G37	80.0	BRIGHTSTAR SLT	63.3
GO-PR60	80.0	PSRX-4CAGL	63.3
PPG-PR 121	80.0	PST-2MG7	63.3
PPG-PR 136	80.0	ASPAIRE (IS-PR 489)	61.7
PPG-PR 142	80.0	IS-PR 488	61.7
STAMINA (IS-PR 487)	80.0	JR-178	61.7
STELLAR 3GL (PPG-PR 134)	80.0	SIENNA	61.7
BANDALORE (IS-PR 463)	78.3	SR 4650 (PSRX-3701)	61.7
BANFIELD (IS-PR 491)	78.3	HANCOCK (IS-PR 479)	60.0
PREMIUM (PPG-PR 137)	78.3	ISG-36	60.0
PST-2BNS	78.3	OCTANE	58.3
CL 11601	76.7	ISG-30	56.7
PST-2TQL	76.7	PPG-PR 165	56.7
FASTBALL RGL (PPG-PR 133)	75.0	APR 2036	55.0
ISG-31	75.0	DLF LGD-3026	53.3
MANHATTAN 6 GLR (PST-2MAGS)	75.0	INSIGHT	53.3
PLAYOFF 2 (P02)	75.0	IS-PR 409	50.0
PPG-PR 128	75.0		
PRX-4GM1	75.0	LSD VALUE	25.2
PST-2NKM	75.0	C.V. (%)	21.4
RINOVO	75.0		

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 19. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 2012 DATA

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

NAME	IA1	NAME	IA1
WICKED (SRX-4RHD)	6.7	PPG-PR 165	4.7
LINN	6.3	PST-204D	4.7
PST-2BNS	6.0	SRX-4MSH	4.7
BAR LP 10969	5.7	THRIVE (IS-PR 469)	4.7
FASTBALL RGL (PPG-PR 133)	5.7	2NJK	4.3
PILLAR (CST)	5.7	ALLANTE	4.3
PLAYOFF 2 (P02)	5.7	BANFIELD (IS-PR 491)	4.3
RAD-PR62	5.7	BAR LP 10972	4.3
STAMINA (IS-PR 487)	5.7	CL 307	4.3
A-35	5.3	CS-PR66	4.3
BONNEVILLE	5.3	JR-192	4.3
HAVEN (APR 2038)	5.3	PALMER V	4.3
IS-PR 492	5.3	PROMINENT (CS-20)	4.3
LTP-PR 135	5.3	PST-2DR9	4.3
LTP-RAE	5.3	SOX FAN (GM3)	4.3
OCTANE	5.3	SR 4650 (PSRX-3701)	4.3
PIZZAZZ 2 GLR (PR 909)	5.3	APR 2036	4.0
PPG-PR 143	5.3	BAR LP 7608	4.0
PST-2MG7	5.3	DLF LGD-3026	4.0
STELLAR 3GL (PPG-PR 134)	5.3	GO-G37	4.0
APPLE SGL (PPG-PR 140)	5.0	IS-PR 409	4.0
APR 2320	5.0	ISG-36	4.0
BANDALORE (IS-PR 463)	5.0	PPG-PR 138	4.0
BAR LP 10970	5.0	PRX-4GM1	4.0
EVOLUTION (S85)	5.0	PST-2ACR	4.0
GRAND SLAM GLD (PPG-PR 164)	5.0	RAD-PR55R	4.0
JR-178	5.0	UNO	4.0
PANGEA GLR (CL 11701)	5.0	DOMINATOR (PST-2AG4)	3.7
PPG-PR 121	5.0	FIESTA 4	3.7
PPG-PR 136	5.0	HANCOCK (IS-PR 479)	3.7
PPG-PR 142	5.0	ISG-30	3.7
PREMIUM (PPG-PR 137)	5.0	ISG-31	3.7
PST-2NKM	5.0	PICK 4DFHM	3.7
PST-2TQL	5.0	RINOVO	3.7
RIO VISTA	5.0	SIENNA	3.7
SIDEWAYS (PSRX-S84)	5.0	BRIGHTSTAR SLT	3.3
APR 2445	4.7	INSIGHT	3.3
ASPAIRE (IS-PR 489)	4.7	IS-PR 488	3.3
CL 11601	4.7	MACH I	3.3
DLF LGD-3022	4.7	MANHATTAN 6 GLR (PST-2MAGS)	3.3
DLF LGT 4182	4.7	PSRX-4CAGL	3.3
GO-PR60	4.7	PST-2K9	3.3
KARMA (PICK 10401)	4.7	GO-DHS	3.0
PINNACLE	4.7		
PPG-PR 128	4.7		
		LSD VALUE	1.7
		C.V. (%)	23.6

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 20. GRAY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
2012 DATA

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

NAME	MD1	NAME	MD1
APPLE SGL (PPG-PR 140)	8.7	BAR LP 10970	7.7
APR 2036	8.7	IS-PR 492	7.7
ASPAIRE (IS-PR 489)	8.7	PSRX-4CAGL	7.7
CL 11601	8.7	PST-2NKM	7.7
CL 307	8.7	RIO VISTA	7.7
HAVEN (APR 2038)	8.7	OCTANE	7.3
KARMA (PICK 10401)	8.7	PALMER V	7.3
LTP-PR 135	8.7	PST-2BNS	7.3
PANGEA GLR (CL 11701)	8.7	PST-2MG7	7.3
PPG-PR 121	8.7	RAD-PR55R	7.3
PPG-PR 142	8.7	STAMINA (IS-PR 487)	7.3
PPG-PR 165	8.7	LTP-RAE	7.0
PREMIUM (PPG-PR 137)	8.7	PICK 4DFHM	7.0
PRX-4GM1	8.7	2NJK	6.7
CS-PR66	8.3	HANCOCK (IS-PR 479)	6.7
GRAND SLAM GLD (PPG-PR 164)	8.3	ISG-30	6.7
PIZZAZZ 2 GLR (PR 909)	8.3	PLAYOFF 2 (P02)	6.7
PPG-PR 136	8.3	PST-204D	6.7
PPG-PR 138	8.3	DLF LGT 4182	6.3
RINOVO	8.3	ISG-31	6.3
SIDEWAYS (PSRX-S84)	8.3	ISG-36	6.3
SR 4650 (PSRX-3701)	8.3	PINNACLE	6.3
STELLAR 3GL (PPG-PR 134)	8.3	A-35	6.0
APR 2445	8.0	GO-G37	6.0
BANDALORE (IS-PR 463)	8.0	PST-2DR9	6.0
BANFIELD (IS-PR 491)	8.0	PST-2TQL	6.0
BONNEVILLE	8.0	UNO	6.0
DLF LGD-3022	8.0	PROMINENT (CS-20)	5.7
DLF LGD-3026	8.0	RAD-PR62	5.7
DOMINATOR (PST-2AG4)	8.0	ALLANTE	5.3
EVOLUTION (S85)	8.0	JR-192	5.3
FASTBALL RGL (PPG-PR 133)	8.0	PST-2ACR	5.3
FIESTA 4	8.0	BRIGHTSTAR SLT	4.7
IS-PR 409	8.0	GO-PR60	4.7
IS-PR 488	8.0	GO-DHS	4.3
JR-178	8.0	INSIGHT	4.3
MANHATTAN 6 GLR (PST-2MAGS)	8.0	APR 2320	4.0
PILLAR (CST)	8.0	BAR LP 10969	4.0
PPG-PR 128	8.0	BAR LP 10972	4.0
PPG-PR 143	8.0	MACH I	4.0
PST-2K9	8.0	BAR LP 7608	3.7
SOX FAN (GM3)	8.0	SIENNA	3.7
SRX-4MSH	8.0	LINN	3.0
THRIVE (IS-PR 469)	8.0		
WICKED (SRX-4RHD)	8.0	LSD VALUE	2.0
		C.V. (%)	17.3

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

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

TABLE 21. PERCENT POA ANNUA RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 2012 DATA 2/

NAME	MD1	NAME	MD1
LINN	48.3	SOX FAN (GM3)	6.3
GO-DHS	21.0	2NJK	6.0
ISG-36	21.0	FASTBALL RGL (PPG-PR 133)	6.0
ISG-30	20.7	IS-PR 488	6.0
APR 2320	20.3	PPG-PR 128	6.0
GO-G37	18.3	PST-2MG7	6.0
A-35	17.7	SRX-4MSH	6.0
HANCOCK (IS-PR 479)	17.7	MANHATTAN 6 GLR (PST-2MAGS)	5.7
PROMINENT (CS-20)	17.7	STELLAR 3GL (PPG-PR 134)	5.7
DLF LGT 4182	17.0	BAR LP 10972	5.3
APR 2445	16.3	PIZZAZZ 2 GLR (PR 909)	5.3
DLF LGD-3026	15.7	ASPAIRE (IS-PR 489)	5.0
RAD-PR55R	13.0	PILLAR (CST)	5.0
MACH I	11.7	PPG-PR 138	5.0
BAR LP 7608	11.3	PST-2BNS	5.0
PST-2NKM	11.3	RIO VISTA	5.0
CS-PR66	10.3	APR 2036	4.7
ISG-31	10.3	LTP-RAE	4.7
RAD-PR62	10.3	SIENNA	4.7
THRIVE (IS-PR 469)	10.0	UNO	4.7
BAR LP 10970	9.3	LTP-PR 135	4.3
PST-2DR9	9.3	PREMIUM (PPG-PR 137)	4.3
BAR LP 10969	9.0	APPLE SGL (PPG-PR 140)	4.0
DOMINATOR (PST-2AG4)	9.0	BONNEVILLE	3.7
FIESTA 4	8.7	INSIGHT	3.7
IS-PR 409	8.7	JR-178	3.7
PICK 4DFHM	8.7	PRX-4GM1	3.7
WICKED (SRX-4RHD)	8.7	ALLANTE	3.3
BRIGHTSTAR SLT	8.3	PPG-PR 143	3.3
PLAYOFF 2 (P02)	8.3	JR-192	3.0
PST-204D	8.3	PPG-PR 121	3.0
PST-2ACR	8.3	SIDEWAYS (PSRX-S84)	3.0
BANDALORE (IS-PR 463)	8.0	PPG-PR 142	2.7
DLF LGD-3022	8.0	PPG-PR 165	2.7
PALMER V	8.0	CL 11601	2.3
PSRX-4CAGL	8.0	CL 307	2.3
PST-2TQL	8.0	HAVEN (APR 2038)	2.3
BANFIELD (IS-PR 491)	7.7	KARMA (PICK 10401)	2.3
PANGEA GLR (CL 11701)	7.7	RINOVO	2.3
GO-PR60	7.3	STAMINA (IS-PR 487)	2.3
PINNACLE	7.3	GRAND SLAM GLD (PPG-PR 164)	2.0
OCTANE	7.0	SR 4650 (PSRX-3701)	1.3
EVOLUTION (S85)	6.7		
PST-2K9	6.7	LSD VALUE	8.6
IS-PR 492	6.3	C.V. (%)	64.9
PPG-PR 136	6.3		

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

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

TABLE 22 WEAR TOLERANCE RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
AT AMHERST, MA 1/

2012 DATA
WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/

NAME	JUNE	SEPTEMBER	MEAN	NAME	JUNE	SEPTEMBER	MEAN
BAR LP 10970	7.0	6.0	6.5	2NJK	5.3	5.3	5.3
WICKED (SRX-4RHD)	6.3	6.3	6.3	BONNEVILLE	5.3	5.3	5.3
APR 2036	6.0	6.3	6.2	BRIGHTSTAR SLT	5.3	5.3	5.3
PPG-PR 121	6.0	6.3	6.2	DOMINATOR (PST-2AG4)	5.7	5.0	5.3
SIENNA	6.0	6.3	6.2	EVOLUTION (S85)	4.7	6.0	5.3
SR 4650 (PSRX-3701)	6.3	6.0	6.2	FASTBALL RGL (PPG-PR 133)	5.3	5.3	5.3
BANDALORE (IS-PR 463)	5.7	6.3	6.0	KARMA (PICK 10401)	5.0	5.7	5.3
BANFIELD (IS-PR 491)	6.0	6.0	6.0	OCTANE	5.3	5.3	5.3
HANCOCK (IS-PR 479)	6.3	5.7	6.0	PINNACLE	5.7	5.0	5.3
IS-PR 409	6.0	6.0	6.0	PPG-PR 136	5.0	5.7	5.3
IS-PR 492	5.3	6.7	6.0	PST-2MG7	5.0	5.7	5.3
PST-2BNS	6.0	6.0	6.0	RAD-PR55R	5.0	5.7	5.3
STAMINA (IS-PR 487)	6.0	6.0	6.0	RAD-PR62	4.7	6.0	5.3
APR 2445	6.7	5.0	5.8	APR 2320	5.3	5.0	5.2
ASPAIRE (IS-PR 489)	6.0	5.7	5.8	GO-PR60	5.0	5.3	5.2
FIESTA 4	5.7	6.0	5.8	ISG-30	5.7	4.7	5.2
GO-G37	6.0	5.7	5.8	ISG-31	5.3	5.0	5.2
GRAND SLAM GLD (PPG-PR 164)	5.7	6.0	5.8	PICK 4DFHM	5.0	5.3	5.2
LTP-PR 135	5.3	6.3	5.8	PLAYOFF 2 (P02)	5.3	5.0	5.2
MACH I	6.0	5.7	5.8	PPG-PR 143	4.3	6.0	5.2
MANHATTAN 6 GLR (PST-2MAGS)	5.7	6.0	5.8	PREMIUM (PPG-PR 137)	5.0	5.3	5.2
PPG-PR 138	5.3	6.3	5.8	PST-204D	5.0	5.3	5.2
CL 11601	6.0	5.3	5.7	PST-2DR9	5.0	5.3	5.2
CL 307	5.3	6.0	5.7	PST-2K9	5.0	5.3	5.2
DLF LGD-3022	5.7	5.7	5.7	PST-2NKM	5.0	5.3	5.2
DLF LGD-3026	6.0	5.3	5.7	RIO VISTA	5.0	5.3	5.2
IS-PR 488	5.7	5.7	5.7	A-35	4.7	5.3	5.0
JR-178	5.0	6.3	5.7	BAR LP 10969	5.3	4.7	5.0
PALMER V	6.0	5.3	5.7	INSIGHT	5.0	5.0	5.0
PILLAR (CST)	5.3	6.0	5.7	JR-192	4.7	5.3	5.0
PPG-PR 128	5.3	6.0	5.7	PST-2TQL	5.3	4.7	5.0
RINOVO	5.3	6.0	5.7	ALLANTE	4.3	5.3	4.8
THRIVE (IS-PR 469)	5.7	5.7	5.7	BAR LP 7608	5.0	4.7	4.8
UNO	5.7	5.7	5.7	HAVEN (APR 2038)	5.0	4.7	4.8
APPLE SGL (PPG-PR 140)	5.3	5.7	5.5	PST-2ACR	5.0	4.7	4.8
CS-PR66	5.0	6.0	5.5	STELLAR 3GL (PPG-PR 134)	4.7	5.0	4.8
LTP-RAE	5.3	5.7	5.5	BAR LP 10972	4.3	5.0	4.7
PANGEA GLR (CL 11701)	5.0	6.0	5.5	ISG-36	5.0	4.3	4.7
PIZZAZZ 2 GLR (PR 909)	5.3	5.7	5.5	DLF LGT 4182	5.0	3.7	4.3
PPG-PR 142	5.3	5.7	5.5	GO-DHS	5.0	3.7	4.3
PPG-PR 165	5.0	6.0	5.5	PROMINENT (CS-20)	4.7	4.0	4.3
PRX-4GM1	5.0	6.0	5.5	LINN	4.7	3.0	3.8
PSRX-4CAGL	5.3	5.7	5.5				
SIDEWAYS (PSRX-S84)	5.3	5.7	5.5	LSD VALUE	1.2	1.5	1.0
SOX FAN (GM3)	5.0	6.0	5.5	C.V. (%)	11.3	14.1	10.0
SRX-4MSH	5.7	5.3	5.5				

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

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

TABLE 23. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
 Taken from the 2010 Perennial Ryegrass test - 12 data report with permission from NTEP
 AT ADELPHIA, NJ 1/
 2012 DATA
 DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	JUNE	JULY	MEAN	NAME	JUNE	JULY	MEAN
A-35	8.7	7.3	8.0	PINNACLE	4.7	4.3	4.5
BAR LP 10970	8.3	6.7	7.5	PPG-PR 143	5.3	3.7	4.5
DLF LGT 4182	8.0	6.0	7.0	SIDEWAYS (PSRX-S84)	5.3	3.7	4.5
ISG-36	7.7	5.7	6.7	ASPAIRE (IS-PR 489)	5.0	3.7	4.3
WICKED (SRX-4RHD)	7.3	6.0	6.7	DLF LGD-3022	5.3	3.3	4.3
BAR LP 10972	7.3	5.7	6.5	GRAND SLAM GLD (PPG-PR 164)	5.3	3.3	4.3
PST-204D	8.0	5.0	6.5	PANGEA GLR (CL 11701)	5.0	3.7	4.3
PST-2ACR	7.7	5.3	6.5	PREMIUM (PPG-PR 137)	5.0	3.7	4.3
ISG-31	7.7	5.0	6.3	THRIVE (IS-PR 469)	5.0	3.7	4.3
PST-2DR9	7.0	5.7	6.3	JR-192	5.0	3.3	4.2
BAR LP 7608	6.7	5.7	6.2	PPG-PR 128	4.7	3.7	4.2
GO-DHS	7.0	5.3	6.2	PPG-PR 142	4.7	3.7	4.2
KARMA (PICK 10401)	7.3	5.0	6.2	RIO VISTA	5.0	3.3	4.2
PROMINENT (CS-20)	7.7	4.7	6.2	UNO	5.0	3.3	4.2
PST-2BNS	7.0	5.3	6.2	CL 11601	4.7	3.3	4.0
PST-2K9	7.7	4.7	6.2	FASTBALL RGL (PPG-PR 133)	4.7	3.3	4.0
PST-2TQL	6.3	6.0	6.2	GO-PR60	4.3	3.7	4.0
APR 2445	7.0	4.7	5.8	PRX-4GM1	4.7	3.3	4.0
ISG-30	6.7	5.0	5.8	SRX-4MSH	4.3	3.7	4.0
HAVEN (APR 2038)	6.3	5.0	5.7	BONNEVILLE	4.7	3.0	3.8
PLAYOFF 2 (P02)	7.0	4.3	5.7	FIESTA 4	4.0	3.7	3.8
PPG-PR 136	6.7	4.7	5.7	JR-178	4.7	3.0	3.8
SR 4650 (PSRX-3701)	6.7	4.7	5.7	PICK 4DFHM	4.7	3.0	3.8
BANDALORE (IS-PR 463)	6.3	4.3	5.3	PILLAR (CST)	4.3	3.3	3.8
BANFIELD (IS-PR 491)	6.3	4.3	5.3	LTP-PR 135	4.3	3.0	3.7
EVOLUTION (S85)	6.7	4.0	5.3	OCTANE	4.7	2.7	3.7
GO-G37	6.3	4.3	5.3	STAMINA (IS-PR 487)	4.0	3.3	3.7
PST-2NKM	6.3	4.3	5.3	CL 307	3.7	3.3	3.5
RAD-PR55R	7.0	3.7	5.3	ALLANTE	3.3	3.3	3.3
STELLAR 3GL (PPG-PR 134)	5.7	5.0	5.3	APPLE SGL (PPG-PR 140)	3.7	3.0	3.3
HANCOCK (IS-PR 479)	6.7	3.7	5.2	APR 2036	5.0	1.7	3.3
PPG-PR 138	6.0	4.3	5.2	IS-PR 488	4.0	2.7	3.3
2NJK	5.7	4.3	5.0	LTP-RAE	3.7	3.0	3.3
APR 2320	6.0	4.0	5.0	MANHATTAN 6 GLR (PST-2MAGS)	4.3	2.3	3.3
DLF LGD-3026	5.7	4.3	5.0	PALMER V	4.3	2.3	3.3
IS-PR 492	6.0	4.0	5.0	PIZZAZZ 2 GLR (PR 909)	4.0	2.3	3.2
LINN	6.0	4.0	5.0	PPG-PR 121	4.0	2.3	3.2
PST-2MG7	6.0	4.0	5.0	PSRX-4CAGL	3.7	2.7	3.2
BRIGHTSTAR SLT	5.3	4.3	4.8	RINOVO	3.7	2.7	3.2
DOMINATOR (PST-2AG4)	5.7	4.0	4.8	SOX FAN (GM3)	3.3	2.3	2.8
IS-PR 409	5.7	4.0	4.8	SIENNA	2.7	2.7	2.7
PPG-PR 165	5.3	4.3	4.8	INSIGHT	2.7	2.3	2.5
BAR LP 10969	5.0	4.3	4.7				
CS-PR66	5.3	4.0	4.7	LSD VALUE	1.8	1.5	1.3
RAD-PR62	5.7	3.7	4.7	C.V. (%)	19.8	22.5	17.8
MACH I	5.0	4.0	4.5				

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

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

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/
2NJK	5.8	16.7	MACH I	5.4	8.3
A-35	5.5	16.7	MANHATTAN 6 GLR (PST-2MAGS)	5.6	0.0
ALLANTE	5.5	8.3	OCTANE	5.8	0.0
APPLE SGL (PPG-PR 140)	5.9	41.7	PALMER V	5.8	16.7
APR 2036	5.9	41.7	PANGEA GLR (CL 11701)	6.1	66.7
APR 2320	5.7	16.7	PICK 4DFHM	5.4	0.0
APR 2445	5.9	25.0	PILLAR (CST)	5.6	16.7
ASPAIRE (IS-PR 489)	5.8	41.7	PINNACLE	4.8	0.0
BANDALORE (IS-PR 463)	5.9	41.7	PIZZAZZ 2 GLR (PR 909)	6.0	66.7
BANFIELD (IS-PR 491)	6.0	50.0	PLAYOFF 2 (P02)	5.5	0.0
BAR LP 10969	5.6	16.7	PPG-PR 121	5.9	41.7
BAR LP 10970	5.7	16.7	PPG-PR 128	5.7	25.0
BAR LP 10972	5.5	16.7	PPG-PR 136	5.9	33.3
BAR LP 7608	5.2	0.0	PPG-PR 138	5.9	41.7
BONNEVILLE	5.8	33.3	PPG-PR 142	5.7	8.3
BRIGHTSTAR SLT	5.3	8.3	PPG-PR 143	5.9	33.3
CL 11601	6.0	50.0	PPG-PR 165	5.9	33.3
CL 307	6.0	33.3	PREMIUM (PPG-PR 137)	5.8	25.0
CS-PR66	5.7	8.3	PROMINENT (CS-20)	5.4	16.7
DLF LGD-3022	5.8	8.3	PRX-4GM1	5.8	16.7
DLF LGD-3026	5.3	8.3	PSRX-4CAGL	5.6	16.7
DLF LGT 4182	5.2	8.3	PST-204D	5.7	25.0
DOMINATOR (PST-2AG4)	5.8	25.0	PST-2ACR	5.7	25.0
EVOLUTION (S85)	6.3	83.3	PST-2BNS	6.0	41.7
FASTBALL RGL (PPG-PR 133)	5.9	33.3	PST-2DR9	5.5	16.7
FIESTA 4	5.9	41.7	PST-2K9	5.8	33.3
GO-DHS	5.0	8.3	PST-2MG7	5.6	16.7
GO-G37	5.5	16.7	PST-2NKM	5.8	16.7
GO-PR60	5.7	16.7	PST-2TQL	5.6	33.3
GRAND SLAM GLD (PPG-PR 164)	6.0	58.3	RAD-PR55R	5.7	50.0
HANCOCK (IS-PR 479)	5.6	16.7	RAD-PR62	5.6	25.0
HAVEN (APR 2038)	5.7	16.7	RINOVO	6.0	33.3
INSIGHT	5.3	16.7	RIO VISTA	5.9	25.0
IS-PR 409	5.9	50.0	SIDEWAYS (PSRX-S84)	6.0	33.3
IS-PR 488	5.6	16.7	SIENNA	5.4	25.0
IS-PR 492	5.9	33.3	SOX FAN (GM3)	5.7	16.7
ISG-30	5.5	16.7	SR 4650 (PSRX-3701)	6.1	66.7
ISG-31	5.5	16.7	SRX-4MSH	5.7	8.3
ISG-36	5.5	8.3	STAMINA (IS-PR 487)	5.9	33.3
JR-178	5.8	16.7	STELLAR 3GL (PPG-PR 134)	5.9	16.7
JR-192	5.5	8.3	THRIVE (IS-PR 469)	5.8	33.3
KARMA (PICK 10401)	6.1	58.3	UNO	5.8	25.0
LINN	3.1	0.0	WICKED (SRX-4RHD)	6.1	58.3
LTP-PR 135	5.8	25.0			
LTP-RAE	5.6	0.0			
			LSD VALUE	0.2	
			C.V. (%)	8.4	

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