NATIONAL TURFGRASS EVALUATION PROGRAM

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

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

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

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

CURRENT POLICY COMMITTEE MEMBERS:

Dr. Melodee Fraser, Pure-Seed Testing, Inc.
Mr. Paul Hedgpeth, Columbia River Seeds, Inc.
Dr. Jeff Nus, USGA Green Section
Dr. Doug Karcher, University of Arkansas
Dr. David Kopec, University of Arizona
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2010 National Perennial Ryegrass Test - 2011 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 2011

State	Location	Code
Alabama	Eufaula (Overseeding)	AL3
Arizona	Tucson (Overseeding)	AZ1
California	Riverside	CA3
California	Riverside (Traffic Study)	CA4
Florida	Gainesville (Overseeding)	FL1
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
New Jersey	Adelphia (Gray Leaf Spot Study)	NJ3
Oregon	Corvallis	OR1
Pennsylvania	University Park (Traffic Study)	PA1
Rhode Island	Kingston (Salt Tolerance)	RI1
Virginia	Blacksburg	VA1
Virginia	Blacksburg (Traffic Study)	VA2
Virginia	Blacksburg (Drought Study)	VA3
Washington	Puyallup (Sand Drought Stress)	WA3

2010 NATIONAL PERENNIAL RYEGRASS TEST
Entries and Sponsors

Entry No.	Name	Sponsor
1	Rinovo	Semillas Fito
2	CL 11601	The Scotts Company
* 3	Pizzazz 2 GLR (PR 909)	Turf Merchants, Inc.
* 4	Pangea GLR (CL 11701)	Turf Merchants, Inc.
5	APR 2036	Brett Young Seeds Ltd.
* 6	Linn	Standard Entry
* 7	Uno	Standard Entry
8	DLF LGD-3026	DLF International Seeds
9	DLF LGD-3022	DLF International Seeds
*10	Sideways (PSRX-S84)	Seed Research of Oregon
*11	Wicked (SRX-4RHD)	Seed Research of Oregon
12	Playoff 2 (PO2)	John Deere Lanscapes
13	Evolution (S85)	John Deere Lanscapes
14	LTP-RAE	Lebanon Turf Products
*15	Allante	Ledeboer Seed/Pro-Turf Solutions-OVS
*16	Insight	Ledeboer Seed/Pro-Turf Solutions-OVS
*17	Sienna	Ledeboer Seed/Pro-Turf Solutions-OVS
*18	Brightstar SLT	Standard Entry
19	CL 307	Pennington Seed Company
20	APR 2320	Pennington Seed Company
*21	Haven (APR 2038)	Smith Seed Services
22	PPG-PR 121	Ampac Seed Company
23	PPG-PR 128	Integra Turf, Inc.
24	PPG-PR 133	Mountain View Seeds
25	PPG-PR 134	Mountain View Seeds
26	LTP-PR 135	Lebanon Turf Products
27	PPG-PR 136	Lewis Seed
28	PPG-PR 137	Columbia Seeds
29	PPG-PR 138	Ampac Seed Company
30	PPG-PR 140	Mountain View Seeds
31	PPG-PR 142	Peak Plant Genetics
32	PPG-PR 143	Columbia Seeds
33	PPG-PR 164	Mountain View Seeds
34	PPG-PR 165	Peak Plant Genetics
35	BAR Lp 10969	Barenbrug USA
36	BAR Lp 10972	Barenbrug USA
37	BAR Lp 10970	Barenbrug USA
38	2NJK	Barenbrug USA
39	BAR Lp 7608	Barenbrug USA
*40	Pinnacle	Standard Entry
41	APR 2445	ProSeeds Marketing
*42	Fiesta 4	Standard Entry
43	GO-G37	Grassland Oregon
44	CS-20	Columbia Seeds
45	ISG-36	Integrated Seeds
46	ISG-31	Integrated Seeds
47	A-35	Allied Seeds
48	CS-PR66	Columbia Seeds
49	CST	Columbia Seeds
50	JR-178	Jacklin Seed by Simplot®
51	JR-192	Jacklin Seed by Simplot®
*52	SR 4650 (PSRX-3701)	Seed Research of Oregon
*53	Karma (PICK 10401)	Pickseed USA, Inc.
*54	Mach I	Standard Entry
55	RAD-PR62	Radix Research
56	RAD-PR55R	Lewis Seed
57	IS-PR 409	Brett Young Seeds Ltd.
58	IS-PR 463	DLF International Seeds
59	IS-PR 469	DLF International Seeds
60	IS-PR 479	DLF International Seeds
61	IS-PR 487	DLF International Seeds
62	IS-PR 488	DLF International Seeds
63	IS-PR 489	DLF International Seeds
64	IS-PR 491	DLF International Seeds
65	IS-PR 492	DLF International Seeds
66	DLF LGT 4182	DLF International Seeds
67	ISG-30	Integrated Seeds
68	PST-204D	Landmark Native Seeds
69	PST-2NKM	Landmark Native Seeds
70	PST-2DR9	Pure-Seed Testing
71	PST-2MG7	Pure-Seed Testing
72	PST-2TQL	Pure-Seed Testing
*73	Dominator (PST-2AG4)	Brett Young Seeds Ltd.
74	MANHATTAN 6 GLR (PST-2MAGS)	Turf Merchants, Inc.
75	PST-2K9	The Scotts Company
76	PST-2BNS	Pure-Seed Testing
77	PST-2ACR	Pure-Seed Testing
*78	Rio Vista	Burlingham Seeds
*79	Octane	Burlingham Seeds
*80	Bonneville	Burlingham Seeds
81	PSRX-4CAGL	Pickseed USA & Seed Research of OR
82	GO-DHS	Grassland Oregon
83	GO-PR60	Grassland Oregon
84	Sox Fan (GM3)	Landmark Native Seeds
85	PRX-4GM1	Pickseed USA & Seed Research of OR
86	SRX-4MSH	Seed Research of Oregon
87	Pick 4DFHM	Pickseed USA, Inc.
*88	Palmer V	Standard Entry

* COMMERCIALLY AVAILABLE IN THE USA IN 2012

TABLE A. 2011 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
AL3	-	-	-	-	-	-	0.6-1.0	TO PREVENT STRESS
AZ1	SANDY CLAY LOAM	7.6-8.5	451+	501+	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
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
FL1	SANDY LOAM	6.6-7.0	151-270	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
IL1	SANDY CLAY LOAM	6.6-7.0	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	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
MO1	SANDY CLAY LOAM	5.6-6.0	61-150	241-375	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
NJ2	SANDY LOAM	6.6-7.0	271-450	151-240	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ3	SANDY LOAM	6.6-7.0	271-450	151-240	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OR1	SILTY CLAY LOAM	5.6-6.0	61-150	241-375	4.1-5.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
PA1	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
RI1	-	-	-	-	-	-	-	-
VA1	SILTY CLAY LOAM	5.6-6.0	0-60	0-150	3.1-4.0	LIGHT SHADE	1.6-2.0	ONLY DURING SEVERE STRESS
VA2	SILTY CLAY LOAM	5.6-6.0	0-60	0-150	3.1-4.0	LIGHT SHADE	1.6-2.0	ONLY DURING SEVERE STRESS
VA3	-	-	-	-	-	-	-	-
WA3	SAND	6.1-6.5	0-60	0-150	5.1-6.0	FULL SUN	1.1-1.5	TO PREVENT STRESS

Taken from the 2010 Perennial Ryegrass test-11 data report with permission from NTEP

TABLE B. LOCATIONS AND DATA COLLECTED IN 2011

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	WEAR TOLERANCE	SEEDLING VIGOR
* AL3																
* AZ1																
CA3	X	X	X	X	X	X	X	X	X	X	X	X				X
* CA4								X	X	X	X	X				
* FL1																
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	
MD1				X	X	X	X	X	X	X	X			X		
MI1						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			X
NE1					X	X	X	X	X	X	X		X	X		
NJ2				X	X	X	X	X	X	X	X		X			
* NJ3									X	X	X					
OR1	X	X	X	X	X	X	X	X	X	X	X	X	X			X
* PA1																
* RI1																
VA1		X	X	X	X	X	X	X			X					
* VA2																
* VA3																
* WA3	X	X	X	X	X	X	X	X	X	X	X	X	X			

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2011

LOCATION	SPRING DENSITY	SUMMER DENSITY	PERCENT COVER SPRING	PERCENT COVER FALL	WINTER COLOR	DROUGHT TOLERANCE DORMANCY	DROUGHT TOLERANCE RECOVERY	BROWN PATCH WARM TEMP.	PYTHIUM BLIGHT	PINK SNOW MOLD	SEEDHEAD RATINGS	MOWING QUALITY	PERCENT ESTABLISH-MENT	PERCENT ESTABLISHMENT OCTOBER	PERCENT ESTABLISHMENT NOVEMBER
* AL3															
* AZ1															
CA3															
* CA4															
* FL1															
IA1				X											
IL1													X		
MA1		X											X		
MD1															
MI1														X	X
MN1										X		X			
MO1			X	X				X							
NE1															
NJ2				X				X			X				
* NJ3															
OR1															
* PA1															
* RI1															
VA1			X						X						
* VA2															
* VA3															
* WA3	X				X	X	X								

* MORE DATA FOR "AL3", "AZ1", "CA4", "FL1", "NJ3", "PA1", "RI1", "VA2", "WA3", AND "VA3" IN TABLE 16, 17, 10, 18, 15, 11, 14, 12, 13, 19.

TABLE 1. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 1 **/
2011 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ2	NAME	NJ2
* KARMA (PICK 10401)	7.4	* DOMINATOR (PST-2AG4)	6.0
* PANGEA GLR (CL 11701)	7.3	* MACH I	6.0
IS-PR 491	7.0	CST	6.0
IS-PR 409	7.0	IS-PR 488	5.9
PPG-PR 121	6.9	* UNO	5.9
*WICKED (SRX-4RHD)	6.9	DLF LGD-3022	5.9
RINOVO	6.9	CL 11601	5.9
GO-PR60	6.9	JR-192	5.9
* SR 4650 (PSRX-3701)	6.9	PST-2K9	5.8
EVOLUTION (S85)	6.8	SOX FAN (GM3)	5.8
IS-PR 463	6.8	PPG-PR 140	5.8
PST-2BNS	6.7	RAD-PR62	5.8
PPG-PR 138	6.7	LTP-PR 135	5.7
* SIENNA	6.7	2NJK	5.6
PPG-PR 136	6.7	BAR LP 10972	5.6
* RIO VISTA	6.7	PPG-PR 128	5.6
JR-178	6.7	SRX-4MSH	5.6
IS-PR 469	6.7	PST-204D	5.5
PPG-PR 165	6.6	DLF LGD-3026	5.5
PPG-PR 164	6.6	PST-2NKM	5.5
APR-36	6.4	GO-G37	5.4
* PIZZAZZ 2 GLR (PR 909)	6.4	A-35	5.4
PPG-PR 137	6.4	MANHATTAN 6 GLR (PST-2MAGS)	5.4
* FIESTA 4	6.4	PST-2ACR	5.4
IS-PR 487	6.4	BAR LP 10969	5.4
PPG-PR 134	6.4	* BONNEVILLE	5.3
BAR LP 10970	6.3	ISG-30	5.2
* OCTANE	6.3	* HAVEN (APR 2038)	5.2
APR-20	6.3	PST-2DR9	5.2
RAD-PR55R	6.3	ISG-36	5.2
* INSIGHT	6.3	PST-2MG7	5.2
IS-PR 489	6.3	PLAYOFF 2 (PO2)	5.1
PPG-PR 133	6.2	PST-2TQL	5.1
* SIDEWAYS (PSRX-S84)	6.2	DLF LGT 4182	4.7
IS-PR 492	6.2	PICK 4DFHM	4.6
CL 307	6.2	ISG-31	4.6
* ALLANTE	6.1	* BRIGHTSTAR SLT	4.5
LTP-RAE	6.1	CS-20	4.4
PSRX-4CAGL	6.1	GO-DHS	4.1
CS-PR66	6.1	BAR LP 7608	4.0
IS-PR 479	6.1	* PINNACLE	2.8
APR-45	6.1	* LINN	0.9
* PALMER V	6.1		
PPG-PR 142	6.1	LSD VALUE	0.8
PPG-PR 143	6.0	C.V. (%)	8.9
PRX-4GM1	6.0		

* COMMERCIALLY AVAILABLE IN THE USA IN 2012.

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

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

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

TABLE 2 TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN AT TWO LOCATIONS IN THE U.S. FOR AMMI GROUP 2 **/
2011 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MN1	MD1	MEAN	NAME	MN1	MD1	MEAN
PANGEA GLR (CL 11701)	5.9	6.1	6.0	APR-45	5.1	5.6	5.3
KARMA (PICK 10401)	5.9	6.0	5.9	DOMINATOR (PST-2AG4)	5.1	5.6	5.3
WICKED (SRX-4RHD)	5.7	6.0	5.9	UNO	5.0	5.6	5.3
IS-PR 491	5.7	6.0	5.8	PRX-4GM1	5.1	5.6	5.3
EVOLUTION (S85)	5.6	5.9	5.8	LTP-RAE	5.1	5.5	5.3
SR 4650 (PSRX-3701)	5.6	5.9	5.8	PPG-PR 140	5.0	5.6	5.3
IS-PR 463	5.6	5.9	5.8	JR-192	5.0	5.5	5.3
PST-2BNS	5.6	5.9	5.8	CST	5.0	5.5	5.3
RINOVO	5.6	5.9	5.8	LTP-PR 135	4.9	5.6	5.2
PPG-PR 121	5.6	5.9	5.7	SOX FAN (GM3)	4.9	5.5	5.2
PPG-PR 138	5.6	5.9	5.7	MACH I	5.0	5.4	5.2
JR-178	5.5	5.9	5.7	2NJK	4.8	5.5	5.1
GO-PR60	5.6	5.9	5.7	PST-2K9	4.9	5.4	5.1
IS-PR 409	5.6	5.8	5.7	PST-2NKM	4.8	5.5	5.1
RIO VISTA	5.5	5.9	5.7	PPG-PR 128	4.8	5.4	5.1
IS-PR 469	5.5	5.9	5.7	SRX-4MSH	4.8	5.4	5.1
SIENNA	5.5	5.8	5.7	PST-2O4D	4.7	5.4	5.0
PPG-PR 164	5.5	5.8	5.6	RAD-PR62	4.8	5.3	5.0
IS-PR 487	5.4	5.9	5.6	A-35	4.7	5.3	5.0
PPG-PR 136	5.5	5.8	5.6	PST-2ACR	4.7	5.3	5.0
PPG-PR 165	5.4	5.8	5.6	DLF LGD-3026	4.7	5.3	5.0
PIZZAZZ 2 GLR (PR 909)	5.4	5.8	5.6	BONNEVILLE	4.6	5.3	5.0
PPG-PR 137	5.3	5.8	5.6	BAR LP 10972	4.7	5.2	5.0
PPG-PR 134	5.3	5.7	5.5	MANHATTAN 6 GLR (PST-2MAGS)	4.6	5.3	5.0
IS-PR 492	5.3	5.8	5.5	GO-G37	4.6	5.3	5.0
APR-36	5.3	5.7	5.5	ISG-30	4.6	5.3	5.0
FIESTA 4	5.3	5.7	5.5	BAR LP 10969	4.6	5.3	4.9
BAR LP 10970	5.3	5.7	5.5	ISG-36	4.6	5.3	4.9
OCTANE	5.3	5.7	5.5	PST-2MG7	4.5	5.3	4.9
SIDEWAYS (PSRX-S84)	5.2	5.7	5.5	PST-2DR9	4.5	5.3	4.9
INSIGHT	5.2	5.6	5.4	HAVEN (APR 2038)	4.5	5.2	4.9
RAD-PR55R	5.2	5.6	5.4	PST-2TQL	4.5	5.2	4.8
PPG-PR 133	5.2	5.6	5.4	PLAYOFF 2 (PO2)	4.5	5.2	4.8
APR-20	5.2	5.6	5.4	CS-20	4.2	5.2	4.7
PALMER V	5.2	5.7	5.4	ISG-31	4.2	5.1	4.6
CL 11601	5.1	5.7	5.4	BRIGHTSTAR SLT	4.2	5.1	4.6
IS-PR 489	5.2	5.6	5.4	DLF LGT 4182	4.1	4.8	4.5
IS-PR 488	5.1	5.7	5.4	PICK 4DFHM	4.1	4.8	4.5
CL 307	5.1	5.6	5.4	BAR LP 7608	3.8	4.9	4.3
ALLANTE	5.1	5.6	5.4	GO-DHS	3.7	4.7	4.2
DLF LGD-3022	5.1	5.7	5.4	PINNACLE	3.0	4.3	3.6
PPG-PR 142	5.1	5.6	5.4	LINN	1.3	2.8	2.1
PSRX-4CAGL	5.1	5.6	5.4				
CS-PR66	5.1	5.6	5.4	LSD VALUE	0.8	0.8	0.8
IS-PR 479	5.1	5.6	5.4	C.V. (%)	10.5	9.5	10.0
PPG-PR 143	5.1	5.6	5.3				

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

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN 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/
GROWN AT SEVEN LOCATIONS IN THE U.S. FOR AMMI GROUP 3 **/
2011 DATA

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

NAME	IL1	VA1	MI1	MA1	NE1	MO1	OR1	MEAN
WICKED (SRX-4RHD)	5.7	6.3	6.0	6.0	6.7	5.6	6.6	6.1
IS-PR 487	5.6	6.2	5.9	6.0	6.6	5.5	6.5	6.0
PANGEA GLR (CL 11701)	5.6	6.2	5.9	5.9	6.6	5.4	6.4	6.0
PST-2BNS	5.6	6.2	5.9	5.9	6.6	5.5	6.5	6.0
CL 11601	5.5	6.1	5.9	5.9	6.6	5.5	6.5	6.0
EVOLUTION (S85)	5.6	6.2	5.9	5.9	6.6	5.4	6.4	6.0
IS-PR 463	5.5	6.2	5.9	5.9	6.6	5.4	6.4	6.0
IS-PR 491	5.6	6.2	5.9	5.9	6.6	5.4	6.4	6.0
JR-178	5.5	6.1	5.9	5.9	6.5	5.5	6.5	6.0
IS-PR 492	5.5	6.1	5.9	5.9	6.5	5.5	6.5	6.0
PPG-PR 138	5.5	6.1	5.9	5.9	6.5	5.4	6.4	6.0
SR 4650 (PSRX-3701)	5.5	6.1	5.9	5.9	6.5	5.4	6.4	6.0
RIO VISTA	5.5	6.1	5.9	5.9	6.5	5.4	6.4	6.0
DLF LGD-3022	5.4	6.1	5.8	5.8	6.5	5.4	6.5	5.9
RINOVO	5.5	6.1	5.8	5.8	6.5	5.4	6.4	5.9
IS-PR 469	5.5	6.1	5.8	5.8	6.5	5.4	6.4	5.9
IS-PR 488	5.4	6.1	5.8	5.8	6.5	5.4	6.4	5.9
PIZZAZZ 2 GLR (PR 909)	5.5	6.1	5.8	5.8	6.5	5.4	6.4	5.9
PPG-PR 137	5.4	6.1	5.8	5.8	6.5	5.4	6.4	5.9
SIDEWAYS (PSRX-S84)	5.4	6.0	5.8	5.8	6.5	5.4	6.4	5.9
PPG-PR 164	5.4	6.0	5.8	5.8	6.4	5.3	6.3	5.9
GO-PR60	5.4	6.0	5.8	5.8	6.4	5.3	6.3	5.9
PPG-PR 121	5.4	6.0	5.8	5.8	6.4	5.3	6.3	5.9
KARMA (PICK 10401)	5.5	6.1	5.8	5.8	6.4	5.3	6.3	5.9
PALMER V	5.4	6.0	5.7	5.8	6.4	5.4	6.4	5.9
PPG-PR 134	5.4	6.0	5.7	5.8	6.4	5.3	6.3	5.9
SIENNA	5.4	6.0	5.7	5.8	6.4	5.3	6.3	5.9
LTP-PR 135	5.3	6.0	5.7	5.7	6.4	5.4	6.4	5.8
PPG-PR 140	5.3	6.0	5.7	5.7	6.4	5.3	6.4	5.8
PPG-PR 165	5.4	6.0	5.7	5.7	6.4	5.3	6.3	5.8
OCTANE	5.3	6.0	5.7	5.7	6.4	5.3	6.3	5.8
UNO	5.3	5.9	5.7	5.7	6.4	5.3	6.3	5.8
APR-36	5.3	6.0	5.7	5.7	6.4	5.3	6.3	5.8
PPG-PR 136	5.4	6.0	5.7	5.7	6.4	5.2	6.2	5.8
BAR LP 10970	5.3	6.0	5.7	5.7	6.4	5.3	6.3	5.8
PPG-PR 142	5.3	5.9	5.7	5.7	6.4	5.3	6.3	5.8
IS-PR 409	5.4	6.0	5.7	5.7	6.3	5.2	6.2	5.8
FIESTA 4	5.3	5.9	5.7	5.7	6.3	5.3	6.3	5.8
PPG-PR 143	5.3	5.9	5.7	5.7	6.3	5.3	6.3	5.8
JR-192	5.3	5.9	5.6	5.7	6.3	5.3	6.3	5.8
PPG-PR 133	5.3	5.9	5.7	5.7	6.3	5.3	6.3	5.8
DOMINATOR (PST-2AG4)	5.3	5.9	5.6	5.7	6.3	5.3	6.3	5.8
PST-2NKM	5.2	5.9	5.6	5.7	6.3	5.3	6.3	5.8
INSIGHT	5.3	5.9	5.6	5.7	6.3	5.2	6.2	5.8
CS-20	5.2	5.8	5.6	5.6	6.3	5.4	6.4	5.8
CL 307	5.3	5.9	5.6	5.7	6.3	5.2	6.2	5.8
ALLANTE	5.3	5.9	5.6	5.7	6.3	5.2	6.2	5.8
PSRX-4CAGL	5.3	5.9	5.6	5.7	6.3	5.2	6.2	5.7
IS-PR 479	5.3	5.9	5.6	5.7	6.3	5.2	6.2	5.7
RAD-PR55R	5.3	5.9	5.6	5.7	6.3	5.2	6.2	5.7
CS-PR66	5.3	5.9	5.6	5.6	6.3	5.2	6.2	5.7
SOX FAN (GM3)	5.2	5.9	5.6	5.6	6.3	5.2	6.3	5.7

TABLE 3 TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN AT SEVEN LOCATIONS IN THE U.S. FOR AMMI GROUP 3 **/
2011 DATA

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

NAME	IL1	VA1	MI1	MA1	NE1	MO1	OR1	MEAN
APR-20	5.3	5.9	5.6	5.6	6.3	5.2	6.2	5.7
PRX-4GM1	5.2	5.9	5.6	5.6	6.3	5.2	6.2	5.7
2NJK	5.2	5.9	5.6	5.6	6.3	5.2	6.2	5.7
CST	5.2	5.9	5.6	5.6	6.3	5.2	6.2	5.7
APR-45	5.2	5.9	5.6	5.6	6.3	5.2	6.2	5.7
IS-PR 489	5.2	5.9	5.6	5.6	6.3	5.2	6.2	5.7
ISG-36	5.1	5.8	5.5	5.6	6.2	5.2	6.2	5.7
ISG-30	5.1	5.8	5.5	5.6	6.2	5.2	6.2	5.7
BONNEVILLE	5.1	5.8	5.5	5.6	6.2	5.2	6.2	5.7
PPG-PR 128	5.2	5.8	5.5	5.6	6.2	5.2	6.2	5.7
A-35	5.1	5.8	5.5	5.5	6.2	5.2	6.2	5.7
LTP-RAE	5.2	5.8	5.5	5.6	6.2	5.1	6.1	5.6
SRX-4MSH	5.1	5.8	5.5	5.5	6.2	5.2	6.2	5.6
PST-2MG7	5.1	5.8	5.5	5.5	6.2	5.2	6.2	5.6
PST-2ACR	5.1	5.8	5.5	5.5	6.2	5.2	6.2	5.6
PST-204D	5.1	5.8	5.5	5.5	6.2	5.2	6.2	5.6
PST-2DR9	5.1	5.7	5.5	5.5	6.2	5.1	6.2	5.6
BRIGHTSTAR SLT	5.0	5.7	5.4	5.5	6.2	5.2	6.2	5.6
PST-2TQL	5.1	5.7	5.4	5.5	6.1	5.1	6.2	5.6
HAVEN (APR 2038)	5.1	5.7	5.4	5.5	6.1	5.1	6.1	5.6
BAR LP 10969	5.1	5.7	5.4	5.5	6.1	5.1	6.1	5.6
ISG-31	5.0	5.7	5.4	5.5	6.1	5.2	6.2	5.6
MANHATTAN 6 GLR (PST-2MAGS)	5.1	5.7	5.4	5.5	6.1	5.1	6.1	5.6
PLAYOFF 2 (P02)	5.0	5.7	5.4	5.5	6.1	5.1	6.1	5.6
PST-2K9	5.1	5.7	5.4	5.5	6.1	5.0	6.0	5.6
DLF LGD-3026	5.0	5.7	5.4	5.4	6.1	5.1	6.1	5.5
GO-G37	5.0	5.7	5.4	5.4	6.1	5.1	6.1	5.5
MACH I	5.1	5.7	5.4	5.4	6.1	5.0	6.0	5.5
BAR LP 7608	4.9	5.5	5.3	5.3	6.0	5.1	6.1	5.5
RAD-PR62	5.0	5.6	5.3	5.4	6.0	5.0	6.0	5.5
BAR LP 10972	4.9	5.6	5.3	5.3	6.0	4.9	5.9	5.4
PICK 4DFHM	4.7	5.4	5.1	5.1	5.8	4.8	5.8	5.2
DLF LGT 4182	4.7	5.3	5.1	5.1	5.8	4.8	5.8	5.2
GO-DHS	4.6	5.3	5.0	5.0	5.7	4.8	5.8	5.2
PINNACLE	4.4	5.1	4.9	4.9	5.6	4.7	5.8	5.1
LINN	3.1	3.8	3.6	3.6	4.3	3.5	4.5	3.8
LSD VALUE	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)	10.0	8.9	9.4	9.3	8.3	10.0	8.4	9.2

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

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

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

TABLE 4 TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN AT TWO LOCATIONS IN THE U.S. FOR AMMI GROUP 4 **/
2011 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA3	IA1	MEAN	NAME	CA3	IA1	MEAN
CL 11601	7.0	6.0	6.5	PST-2MG7	6.7	5.7	6.2
IS-PR 487	7.0	6.0	6.5	CL 307	6.7	5.7	6.2
WICKED (SRX-4RHD)	7.0	6.0	6.5	ALLANTE	6.7	5.7	6.2
IS-PR 492	7.0	6.0	6.5	FIESTA 4	6.7	5.7	6.2
CS-20	7.0	6.0	6.5	PPG-PR 165	6.7	5.7	6.2
DLF LGD-3022	6.9	5.9	6.4	IS-PR 479	6.7	5.7	6.2
IS-PR 488	6.9	5.9	6.4	PSRX-4CAGL	6.7	5.7	6.2
PST-2BNS	6.9	5.9	6.4	A-35	6.7	5.7	6.2
JR-178	6.9	5.9	6.4	INSIGHT	6.7	5.7	6.2
IS-PR 463	6.9	5.9	6.4	CS-PR66	6.7	5.7	6.2
EVOLUTION (S85)	6.9	5.9	6.4	PRX-4GM1	6.7	5.7	6.2
LTP-PR 135	6.9	5.9	6.4	PPG-PR 128	6.7	5.7	6.2
PPG-PR 138	6.9	5.9	6.4	CST	6.7	5.7	6.2
RIO VISTA	6.9	5.9	6.4	PST-2ACR	6.7	5.7	6.2
IS-PR 491	6.9	5.9	6.4	PPG-PR 136	6.7	5.7	6.2
SIDEWAYS (PSRX-S84)	6.9	5.9	6.4	RAD-PR55R	6.7	5.7	6.2
SR 4650 (PSRX-3701)	6.9	5.9	6.4	PST-2TQL	6.7	5.7	6.2
PIZZAZZ 2 GLR (PR 909)	6.8	5.8	6.3	PST-2DR9	6.7	5.7	6.2
PANGEA GLR (CL 11701)	6.8	5.8	6.3	BAR LP 7608	6.7	5.7	6.2
PPG-PR 140	6.8	5.8	6.3	KARMA (PICK 10401)	6.7	5.7	6.2
PALMER V	6.8	5.8	6.3	PST-204D	6.7	5.7	6.2
PPG-PR 137	6.8	5.8	6.3	SRX-4MSH	6.7	5.7	6.2
IS-PR 469	6.8	5.8	6.3	APR-20	6.7	5.7	6.2
PST-2NKM	6.8	5.8	6.3	APR-45	6.7	5.7	6.2
UNO	6.8	5.8	6.3	HAVEN (APR 2038)	6.6	5.7	6.2
RINOVO	6.8	5.8	6.3	PLAYOFF 2 (P02)	6.6	5.6	6.1
PPG-PR 134	6.8	5.8	6.3	IS-PR 409	6.6	5.6	6.1
PPG-PR 164	6.8	5.8	6.3	IS-PR 489	6.6	5.6	6.1
JR-192	6.8	5.8	6.3	BAR LP 10969	6.6	5.6	6.1
PPG-PR 142	6.8	5.8	6.3	MANHATTAN 6 GLR (PST-2MAGS)	6.6	5.6	6.1
ISG-36	6.8	5.8	6.3	LTP-RAE	6.6	5.6	6.1
ISG-30	6.8	5.8	6.3	DLF LGD-3026	6.6	5.6	6.1
PPG-PR 143	6.8	5.8	6.3	GO-G37	6.6	5.6	6.1
BRIGHTSTAR SLT	6.7	5.8	6.3	PST-2K9	6.5	5.5	6.0
OCTANE	6.7	5.7	6.2	MACH I	6.5	5.5	6.0
DOMINATOR (PST-2AG4)	6.7	5.7	6.2	RAD-PR62	6.4	5.4	5.9
2NJK	6.7	5.7	6.2	BAR LP 10972	6.4	5.4	5.9
GO-PR60	6.7	5.7	6.2	PINNACLE	6.4	5.4	5.9
BONNEVILLE	6.7	5.7	6.2	PICK 4DFHM	6.3	5.3	5.8
SIENNA	6.7	5.7	6.2	GO-DHS	6.3	5.3	5.8
SOX FAN (GM3)	6.7	5.7	6.2	DLF LGT 4182	6.3	5.3	5.8
PPG-PR 121	6.7	5.7	6.2	LINN	5.2	4.2	4.7
BAR LP 10970	6.7	5.7	6.2				
APR-36	6.7	5.7	6.2	LSD VALUE	0.8	0.8	0.8
ISG-31	6.7	5.7	6.2	C.V. (%)	7.8	9.2	8.4
PPG-PR 133	6.7	5.7	6.2				

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

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

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

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT TWO LOCATIONS 1/ IN THE NORTHEAST REGION 2011 DATA

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

NAME	MA1	NJ2	MEAN	NAME	MA1	NJ2	MEAN
IS-PR 469	6.0	7.6	6.8	CST	5.9	5.7	5.8
GO-PR60	6.3	7.0	6.6	DOMINATOR (PST-2AG4)	5.4	6.1	5.8
RINOVO	6.1	7.1	6.6	PALMER V	5.9	5.6	5.8
IS-PR 492	6.5	6.6	6.6	CL 307	5.3	6.2	5.8
PPG-PR 164	5.8	7.4	6.6	PPG-PR 143	5.6	5.8	5.7
PPG-PR 121	6.3	6.8	6.5	UNO	5.6	5.9	5.7
IS-PR 491	5.8	7.2	6.5	DLF LGD-3022	5.8	5.7	5.7
IS-PR 463	6.1	6.9	6.5	LTP-RAE	5.0	6.5	5.7
KARMA (PICK 10401)	5.5	7.4	6.5	LTP-PR 135	5.5	5.8	5.7
PPG-PR 136	6.0	6.9	6.4	MANHATTAN 6 GLR (PST-2MAGS)	5.3	6.0	5.6
PPG-PR 165	6.1	6.7	6.4	PST-2K9	5.4	5.9	5.6
PANGEA GLR (CL 11701)	5.5	7.2	6.4	SRX-4MSH	5.5	5.7	5.6
IS-PR 409	5.8	7.0	6.4	DLF LGD-3026	5.3	5.9	5.6
SR 4650 (PSRX-3701)	5.8	7.0	6.4	JR-192	5.6	5.6	5.6
WICKED (SRX-4RHD)	6.0	6.6	6.3	RAD-PR62	5.4	5.7	5.6
SIENNA	6.0	6.6	6.3	ISG-36	5.8	5.3	5.5
CS-PR66	6.0	6.4	6.2	2NJK	5.5	5.6	5.5
FIESTA 4	6.0	6.4	6.2	ISG-30	5.8	5.3	5.5
RAD-PR55R	5.9	6.5	6.2	SOX FAN (GM3)	5.4	5.7	5.5
MACH I	6.0	6.3	6.2	A-35	5.5	5.5	5.5
PPG-PR 138	6.2	6.2	6.2	GO-G37	5.6	5.4	5.5
PSRX-4CAGL	6.1	6.2	6.1	PPG-PR 140	5.8	5.2	5.5
APR 2445	5.6	6.7	6.1	PST-204D	5.6	5.3	5.5
RIO VISTA	5.6	6.7	6.1	PPG-PR 128	5.5	5.3	5.4
INSIGHT	6.0	6.2	6.1	BAR LP 10969	5.4	5.4	5.4
PST-2BNS	5.8	6.4	6.1	PST-2MG7	5.5	5.3	5.4
JR-178	5.5	6.7	6.1	PST-2DR9	5.7	5.1	5.4
APR 2036	5.8	6.3	6.1	CS-20	5.7	4.9	5.3
OCTANE	6.0	6.1	6.1	PST-2NKM	5.4	5.2	5.3
EVOLUTION (S85)	5.4	6.7	6.1	HAVEN (APR 2038)	5.3	5.3	5.3
IS-PR 479	5.9	6.1	6.0	PST-2TQL	5.3	5.1	5.2
PPG-PR 137	5.9	6.1	6.0	BONNEVILLE	5.0	5.4	5.2
PPG-PR 133	5.6	6.3	6.0	PICK 4DFHM	5.5	4.7	5.1
APR 2320	5.7	6.3	6.0	BRIGHTSTAR SLT	5.8	4.4	5.1
IS-PR 487	5.5	6.4	6.0	ISG-31	5.4	4.7	5.0
PRX-4GM1	5.8	6.1	6.0	BAR LP 10972	5.0	5.1	5.0
BAR LP 10970	5.8	6.1	5.9	PLAYOFF 2 (P02)	5.4	4.6	5.0
PPG-PR 134	5.5	6.4	5.9	BAR LP 7608	6.0	3.9	4.9
PIZZAZZ 2 GLR (PR 909)	5.5	6.3	5.9	PST-2ACR	4.8	4.8	4.8
IS-PR 488	5.7	6.0	5.9	GO-DHS	5.1	4.4	4.8
PPG-PR 142	5.9	5.8	5.9	DLF LGT 4182	4.2	4.8	4.5
SIDEWAYS (PSRX-S84)	5.5	6.2	5.8	PINNACLE	5.3	2.8	4.0
CL 11601	6.1	5.6	5.8	LINN	3.5	1.0	2.3
ALLANTE	5.6	6.0	5.8				
IS-PR 489	5.4	6.3	5.8	LSD VALUE	0.7	0.8	0.5
				C.V. (%)	8.0	8.4	8.2

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

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

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT THREE LOCATIONS 1/ IN THE TRANSITION REGION
2011 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MD1	MO1	VA1	MEAN	NAME	MD1	MO1	VA1	MEAN
PST-2BNS	6.1	6.1	6.4	6.2	PPG-PR 121	5.9	5.3	5.5	5.5
WICKED (SRX-4RHD)	5.8	6.0	6.3	6.0	BAR LP 10972	5.8	5.2	5.5	5.5
PANGEA GLR (CL 11701)	6.0	5.8	6.4	6.0	PST-2MG7	5.7	5.1	5.7	5.5
IS-PR 469	5.6	6.2	6.3	6.0	PPG-PR 140	5.8	5.2	5.5	5.5
PPG-PR 134	5.8	5.9	6.4	6.0	BONNEVILLE	5.5	5.6	5.4	5.5
IS-PR 491	5.9	5.7	6.3	6.0	DOMINATOR (PST-2AG4)	5.5	5.0	6.0	5.5
IS-PR 488	5.9	5.6	6.3	5.9	ISG-30	5.1	5.1	6.2	5.5
JR-178	6.0	5.6	6.2	5.9	IS-PR 489	5.6	4.9	6.0	5.5
IS-PR 487	5.7	5.7	6.4	5.9	PPG-PR 136	5.8	5.2	5.4	5.5
PIZZAZZ 2 GLR (PR 909)	6.2	5.3	6.2	5.9	2NJK	5.3	5.3	5.8	5.5
RINOVO	6.0	5.1	6.6	5.9	RAD-PR62	5.1	5.6	5.7	5.5
GO-PR60	5.9	5.5	6.2	5.9	PPG-PR 165	5.6	5.1	5.6	5.5
IS-PR 463	5.7	5.4	6.5	5.9	ISG-31	5.0	5.8	5.5	5.4
APR 2036	5.8	5.7	6.0	5.8	PPG-PR 142	5.4	5.3	5.6	5.4
SIDEWAYS (PSRX-S84)	6.0	5.4	6.1	5.8	CS-20	5.0	5.4	5.9	5.4
APR 2445	5.1	5.9	6.3	5.8	PPG-PR 164	5.3	5.5	5.5	5.4
BAR LP 10970	6.1	5.1	6.1	5.8	HAVEN (APR 2038)	5.8	4.9	5.6	5.4
PPG-PR 138	6.3	5.2	5.8	5.8	SIENNA	5.7	4.5	6.0	5.4
PALMER V	6.0	5.3	6.1	5.8	INSIGHT	5.6	4.7	5.9	5.4
IS-PR 492	5.5	5.4	6.3	5.8	MANHATTAN 6 GLR (PST-2MAGS)	5.2	5.2	5.8	5.4
IS-PR 409	5.6	5.4	6.3	5.7	PST-204D	5.4	4.8	6.0	5.4
RIO VISTA	6.0	5.1	6.0	5.7	BAR LP 7608	5.3	5.3	5.6	5.4
UNO	5.7	5.8	5.7	5.7	GO-G37	5.1	5.0	6.0	5.4
OCTANE	6.2	5.5	5.5	5.7	RAD-PR55R	5.5	5.1	5.4	5.4
CL 11601	5.8	5.5	5.9	5.7	LTP-RAE	5.5	4.7	5.9	5.3
EVOLUTION (S85)	5.5	5.2	6.3	5.7	PST-2DR9	5.3	4.8	6.0	5.3
DLF LGD-3022	5.6	5.3	6.2	5.7	PST-2K9	5.0	5.3	5.7	5.3
KARMA (PICK 10401)	5.8	5.1	6.1	5.7	BAR LP 10969	5.2	5.1	5.7	5.3
PSRX-4CAGL	6.1	5.3	5.6	5.7	APR 2320	5.2	4.8	6.0	5.3
PST-2NKM	5.4	5.4	6.2	5.6	MACH I	5.5	4.8	5.7	5.3
PPG-PR 143	5.9	5.3	5.8	5.6	DLF LGD-3026	5.6	4.6	5.7	5.3
SR 4650 (PSRX-3701)	5.7	5.1	6.1	5.6	ISG-36	4.9	5.3	5.8	5.3
SOX FAN (GM3)	5.8	5.2	5.9	5.6	PST-2TQL	5.1	4.9	5.9	5.3
IS-PR 479	5.4	5.3	6.2	5.6	CS-PR66	5.1	5.3	5.4	5.3
A-35	5.3	5.7	6.0	5.6	PPG-PR 128	5.1	5.1	5.6	5.3
CST	5.4	5.2	6.2	5.6	PLAYOFF 2 (PO2)	5.3	4.8	5.7	5.2
JR-192	5.5	5.2	6.2	5.6	PICK 4DFHM	5.3	4.9	5.5	5.2
PPG-PR 137	6.0	4.9	6.0	5.6	PST-2ACR	5.6	4.9	5.1	5.2
PPG-PR 133	5.6	5.1	6.0	5.6	BRIGHTSTAR SLT	4.9	5.1	5.4	5.1
ALLANTE	5.9	5.2	5.7	5.6	DLF LGT 4182	4.3	5.4	5.6	5.1
FIESTA 4	5.7	4.7	6.4	5.6	GO-DHS	5.0	4.8	4.8	4.9
PRX-4GM1	5.8	5.5	5.4	5.6	PINNACLE	4.0	5.0	4.9	4.7
CL 307	6.0	5.2	5.5	5.6	LINN	2.4	3.0	4.2	3.2
LTP-PR 135	5.4	5.2	6.0	5.6					
SRX-4MSH	5.5	5.3	5.8	5.6	LSD VALUE	0.7	0.7	0.7	0.4
					C.V. (%)	7.6	7.9	7.5	7.7

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

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

TABLE 7. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS GROWN AT FIVE LOCATIONS 1/ IN THE NORTH CENTRAL REGION 2011 DATA TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
EVOLUTION (S85)	6.3	5.5	5.9	6.1	6.7	6.1
WICKED (SRX-4RHD)	5.7	6.1	6.3	6.0	6.3	6.1
RIO VISTA	6.2	5.5	6.6	5.4	6.5	6.0
IS-PR 487	6.2	5.9	5.9	5.4	6.6	6.0
SR 4650 (PSRX-3701)	6.2	5.8	5.9	5.6	6.8	6.0
CL 11601	6.1	6.2	5.8	5.4	6.5	6.0
PPG-PR 138	5.4	5.7	5.9	6.2	6.6	6.0
PANGEA GLR (CL 11701)	5.6	5.7	6.1	6.0	6.4	5.9
SIENNA	6.4	5.0	6.0	5.8	6.3	5.9
DLF LGD-3022	6.6	5.6	6.1	5.4	6.0	5.9
JR-178	6.1	5.7	6.0	5.6	6.3	5.9
PST-2ACR	6.0	5.6	5.9	5.6	6.5	5.9
PIZZAZZ 2 GLR (PR 909)	5.8	5.8	6.2	5.3	6.4	5.9
PPG-PR 137	5.7	5.6	6.0	5.7	6.5	5.9
KARMA (PICK 10401)	5.2	6.0	6.1	5.8	6.4	5.9
PPG-PR 165	6.1	5.6	5.8	5.3	6.6	5.9
APR 2320	6.6	5.8	5.3	5.6	6.1	5.9
SIDEWAYS (PSRX-S84)	6.2	5.7	5.9	5.1	6.2	5.8
PPG-PR 140	5.7	5.5	5.7	5.9	6.3	5.8
IS-PR 463	6.1	5.0	5.4	5.7	6.8	5.8
JR-192	6.2	6.0	5.4	5.4	5.8	5.8
PST-2BNS	5.2	5.2	6.0	6.1	6.3	5.8
PPG-PR 164	5.6	5.7	6.5	4.4	6.6	5.8
PST-2NKM	5.9	5.2	5.8	5.3	6.6	5.8
PPG-PR 142	6.2	5.0	5.5	5.8	6.3	5.7
LTP-PR 135	6.1	5.4	6.0	4.7	6.5	5.7
IS-PR 491	5.8	5.0	5.9	5.5	6.5	5.7
PALMER V	5.1	5.5	6.0	5.6	6.5	5.7
PPG-PR 121	5.8	5.0	5.7	5.9	6.3	5.7
UNO	5.8	5.8	5.8	4.9	6.3	5.7
OCTANE	5.7	5.5	5.9	5.3	6.3	5.7
ALLANTE	5.8	5.0	6.0	5.2	6.6	5.7
IS-PR 488	5.9	5.4	6.2	4.8	6.3	5.7
IS-PR 489	5.9	5.5	5.3	5.2	6.6	5.7
CL 307	6.2	5.4	5.5	5.1	6.3	5.7
DOMINATOR (PST-2AG4)	5.9	5.3	6.0	4.9	6.2	5.7
INSIGHT	5.7	5.1	6.0	5.4	6.2	5.7
PPG-PR 136	5.6	5.1	6.1	5.3	6.3	5.7
IS-PR 492	6.3	5.2	5.7	4.6	6.5	5.7
IS-PR 409	5.4	5.6	5.6	5.6	6.1	5.7
2NJK	6.3	5.2	5.4	5.0	6.4	5.7
PPG-PR 143	5.7	5.2	5.8	5.3	6.3	5.7
BAR LP 10970	5.6	5.8	5.5	5.3	6.0	5.6
RAD-PR55R	5.9	5.0	5.9	4.9	6.5	5.6
RINOVO	5.7	5.4	5.5	5.1	6.4	5.6

TABLE 7. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS (CONT'D) GROWN AT FIVE LOCATIONS 1/
IN THE NORTH CENTRAL REGION
2011 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL1	MI1	MN1	NE1	MEAN
APR 2036	5.4	5.1	5.9	5.5	6.1	5.6
BONNEVILLE	5.9	5.3	5.9	4.4	6.4	5.6
PPG-PR 133	5.8	4.9	5.4	5.2	6.7	5.6
LTP-RAE	6.3	5.1	5.5	4.7	6.3	5.6
FIESTA 4	5.4	5.5	5.6	5.1	6.4	5.6
PPG-PR 128	5.3	5.7	5.5	5.3	6.2	5.6
PPG-PR 134	5.3	5.5	5.5	5.2	6.3	5.6
GO-PR60	5.3	5.0	5.5	5.4	6.6	5.6
CS-PR66	5.9	4.7	5.5	5.1	6.5	5.5
IS-PR 469	6.3	5.4	5.3	4.1	6.6	5.5
BRIGHTSTAR SLT	6.1	5.3	5.6	4.4	6.2	5.5
PST-2TQL	6.0	4.9	5.9	4.5	6.2	5.5
PST-204D	5.6	5.4	5.3	4.9	6.2	5.5
PRX-4GM1	5.9	5.2	5.3	5.0	6.1	5.5
SOX FAN (GM3)	5.3	5.4	5.4	4.9	6.4	5.5
CST	5.0	4.9	5.6	5.4	6.4	5.5
PLAYOFF 2 (PO2)	5.2	4.8	5.8	5.3	6.3	5.5
IS-PR 479	5.2	5.1	5.5	5.1	6.2	5.4
BAR LP 10969	5.9	4.8	5.5	4.7	6.3	5.4
PSRX-4CAGL	5.6	5.0	5.3	4.8	6.6	5.4
HAVEN (APR 2038)	6.0	4.7	5.7	4.3	6.4	5.4
PST-2K9	5.2	5.0	5.3	5.0	6.4	5.4
PST-2DR9	5.9	4.9	5.3	4.8	6.0	5.4
SRX-4MSH	5.7	4.9	5.7	4.5	5.9	5.3
BAR LP 10972	4.9	5.0	5.3	5.2	6.1	5.3
ISG-36	5.8	5.1	5.1	4.8	5.8	5.3
PST-2MG7	5.8	5.3	5.2	4.1	6.1	5.3
RAD-PR62	4.8	5.1	5.3	4.8	6.3	5.3
A-35	5.3	5.3	5.1	4.5	6.0	5.2
APR 2445	5.3	5.0	5.1	4.4	6.4	5.2
CS-20	6.3	5.2	5.1	3.7	5.9	5.2
DLF LGD-3026	6.0	5.2	4.9	4.1	6.0	5.2
ISG-30	5.2	5.0	5.7	4.5	5.6	5.2
MACH I	5.3	4.5	5.1	4.4	6.6	5.2
MANHATTAN 6 GLR (PST-2MAGS)	5.8	5.1	5.3	3.7	6.1	5.2
GO-G37	4.9	4.9	4.9	4.8	6.0	5.1
DLF LGT 4182	5.2	4.8	4.9	4.3	6.0	5.1
BAR LP 7608	5.7	4.5	5.1	3.8	6.2	5.1
ISG-31	5.4	4.7	4.7	4.4	6.1	5.1
PINNACLE	5.6	4.5	5.3	2.8	5.8	4.8
PICK 4DFHM	4.9	4.6	4.9	3.6	5.9	4.8
GO-DHS	5.2	4.5	4.7	3.2	5.9	4.7
LINN	3.7	3.0	4.1	1.2	4.3	3.3
LSD VALUE	1.3	1.0	1.1	1.1	0.6	0.5
C.V. (%)	14.2	11.9	12.6	13.5	5.5	11.7

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

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

TABLE 8. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
2011 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-36	8.0	6.7	8.0	8.0	8.0	7.7	6.7	8.0	8.0	8.0	8.0	8.0	7.8
CS-20	7.7	7.0	7.3	8.0	8.0	6.7	6.3	7.7	8.0	7.3	8.0	8.0	7.5
ISG-30	7.7	7.3	8.0	8.0	7.7	6.3	6.3	7.7	8.0	7.3	8.0	7.7	7.5
ISG-31	7.3	6.3	8.0	8.0	8.0	6.0	6.3	7.3	8.0	7.7	8.0	7.7	7.4
GO-G37	7.3	7.0	7.3	8.0	7.7	6.3	6.3	7.7	8.0	7.0	8.0	7.7	7.4
CS-PR66	7.0	6.3	7.3	7.3	7.3	7.3	6.7	7.7	7.7	6.7	7.3	7.3	7.2
EVOLUTION (S85)	7.0	6.7	7.0	7.0	7.3	7.7	6.3	7.3	7.0	7.3	7.3	7.3	7.1
DOMINATOR (PST-2AG4)	7.7	8.0	7.0	7.0	7.0	7.3	6.3	7.3	7.0	6.7	7.0	7.0	7.1
PPG-PR 140	7.0	7.7	7.3	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.1
GO-PR60	7.3	6.7	6.7	7.3	7.3	6.3	6.7	7.0	7.7	7.3	7.0	7.0	7.0
IS-PR 463	7.7	7.0	6.3	7.3	7.0	7.0	6.7	7.0	7.0	7.3	7.0	7.0	7.0
APR 2445	7.3	6.7	6.3	7.0	7.0	7.0	7.0	7.3	7.0	7.0	7.3	7.0	7.0
DLF LGD-3026	7.7	7.0	7.0	7.3	8.0	6.7	6.0	6.3	7.0	7.0	7.0	7.0	7.0
IS-PR 491	7.7	7.0	6.7	7.0	7.0	7.3	6.3	7.0	7.0	7.0	7.0	7.0	7.0
PANGEA GLR (CL 11701)	7.0	6.3	7.0	7.0	7.0	7.7	6.7	7.0	7.0	7.0	7.0	7.3	7.0
KARMA (PICK 10401)	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.0	7.0
PPG-PR 138	7.3	7.3	7.3	7.0	7.0	6.7	6.0	7.0	7.0	7.0	7.3	7.0	7.0
A-35	7.0	5.3	6.3	8.0	8.0	6.0	6.3	8.0	8.0	6.3	7.0	7.3	7.0
JR-178	7.3	6.7	6.7	7.0	7.0	6.7	7.0	7.3	7.0	7.0	7.0	7.0	7.0
PST-2MG7	7.3	7.0	7.0	7.0	7.0	7.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0
PPG-PR 121	7.3	7.0	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0
PPG-PR 164	7.7	6.7	6.7	7.0	7.0	6.7	6.3	6.7	7.0	7.3	7.3	7.0	6.9
PST-2K9	7.3	7.0	7.0	7.0	7.0	6.7	6.7	7.0	7.0	7.0	7.0	6.7	6.9
SOX FAN (GM3)	7.7	7.0	7.3	7.0	7.0	6.3	6.0	6.3	7.0	7.0	7.0	7.7	6.9
PPG-PR 136	7.7	6.3	7.0	7.0	7.0	7.0	6.0	6.7	7.0	7.3	7.0	7.0	6.9
SR 4650 (PSRX-3701)	7.0	6.7	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.3	7.0	7.0	6.9
PST-2BNS	7.3	6.0	7.0	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	6.9
CST	7.0	6.3	6.7	7.0	7.0	7.3	6.0	7.0	7.0	7.0	7.0	7.0	6.9
IS-PR 492	7.7	6.7	7.0	7.0	7.0	7.0	6.3	6.3	7.0	7.0	6.7	6.7	6.9
JR-192	7.3	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.7	6.0	6.9
PPG-PR 134	7.0	6.3	6.3	7.0	7.0	7.3	6.3	7.0	7.0	7.0	7.0	7.0	6.9
GO-DHS	7.0	6.3	7.3	8.0	8.0	5.0	6.0	6.7	8.0	6.7	6.7	6.3	6.8
LTP-PR 135	7.3	6.7	6.7	6.7	7.0	7.0	6.3	6.7	7.0	7.0	6.7	7.0	6.8
PPG-PR 133	7.0	6.0	7.0	7.0	7.0	7.0	6.3	6.7	7.0	7.0	7.0	7.0	6.8
PPG-PR 137	7.3	7.0	6.7	7.0	7.0	7.0	6.0	6.3	6.7	7.0	7.0	7.0	6.8
MANHATTAN 6 GLR (PST-2MAGS)	7.3	6.7	6.7	7.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	6.7	6.8
PLAYOFF 2 (P02)	7.0	6.7	7.0	7.0	7.0	6.7	6.3	7.0	7.0	6.7	6.7	6.7	6.8
PPG-PR 142	6.7	6.3	6.3	7.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	7.3	6.8
PRX-4GM1	7.3	6.3	7.0	7.0	7.0	6.0	6.0	6.7	7.0	7.0	7.0	7.0	6.8
IS-PR 479	6.3	4.7	6.3	7.7	7.7	6.3	6.3	7.0	7.7	7.7	7.0	6.7	6.8
BAR LP 10970	7.0	6.3	7.0	6.7	7.0	6.3	6.7	7.0	7.0	7.0	6.7	6.3	6.8
CL 11601	7.0	6.7	6.7	6.7	7.0	6.7	6.3	6.3	7.0	7.0	7.0	6.7	6.8
INSIGHT	7.0	6.3	6.3	7.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	6.7	6.8
LTP-RAE	6.3	6.0	6.3	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	6.8
PALMER V	8.0	7.3	7.0	7.0	7.0	5.7	5.0	6.3	7.0	6.7	7.0	7.0	6.8
RINOVO	6.3	6.3	6.3	7.0	6.7	6.7	6.3	7.3	7.0	7.0	7.0	7.0	6.8

TABLE 8 (CONT'D) TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT RIVERSIDE, CA (IN THE SOUTHWEST REGION) 1/
2011 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
PPG-PR 128	6.7	6.3	6.7	7.0	6.7	7.0	6.0	6.3	7.0	7.0	7.0	7.0	6.7
PST-204D	7.0	6.7	6.3	7.0	7.0	6.7	6.7	6.7	7.0	6.3	6.7	6.7	6.7
SRX-4MSH	6.7	5.7	6.7	7.0	7.0	7.0	6.0	6.7	7.0	7.0	7.0	7.0	6.7
IS-PR 487	6.7	5.7	6.0	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	6.7
BAR LP 10969	7.0	6.0	6.7	7.0	7.0	6.0	6.7	7.0	7.0	6.7	7.0	6.0	6.7
CL 307	6.3	6.7	6.0	7.0	6.7	6.7	5.7	6.7	7.0	7.0	7.0	7.3	6.7
FIESTA 4	6.0	5.3	5.7	7.0	7.3	6.3	6.0	7.0	7.3	7.3	7.7	7.0	6.7
PPG-PR 143	6.0	6.0	5.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0	7.0	7.0	6.7
RAD-PR55R	6.0	5.0	5.3	7.7	6.3	6.7	6.3	7.3	8.0	7.0	7.3	7.0	6.7
PST-2DR9	7.0	6.7	6.7	7.0	7.0	6.7	6.0	6.3	7.0	6.7	6.3	6.3	6.6
DLF LGD-3022	6.3	6.0	6.0	7.0	7.0	6.7	6.0	7.0	7.0	7.0	7.0	6.7	6.6
SIDEWAYS (PSRX-S84)	6.3	6.0	6.0	7.0	7.0	7.0	6.0	6.3	7.0	6.7	7.0	7.0	6.6
IS-PR 488	7.0	6.0	6.0	6.7	7.0	7.0	6.0	6.3	6.7	7.0	7.0	6.7	6.6
ALLANTE	6.3	6.3	6.0	7.0	7.0	7.0	5.7	6.0	7.0	7.0	7.0	6.7	6.6
PST-2ACR	7.0	6.0	6.3	6.7	7.0	6.0	5.7	6.7	6.7	7.0	7.0	6.7	6.6
2NJK	7.0	6.0	6.3	7.0	7.0	7.0	6.3	6.7	7.0	6.3	6.0	5.7	6.5
WICKED (SRX-4RHD)	5.7	5.3	6.0	7.0	6.7	6.7	6.7	7.0	7.0	7.0	6.7	6.7	6.5
APR 2320	6.7	6.0	5.7	7.0	7.0	7.0	6.0	6.0	7.0	6.7	6.7	6.3	6.5
PSRX-4CAGL	6.3	5.3	5.7	7.7	7.0	5.7	5.7	6.3	7.3	7.0	7.0	7.0	6.5
RIO VISTA	5.7	5.7	5.0	7.0	6.7	7.0	6.3	7.0	7.0	6.7	7.0	7.0	6.5
PST-2TQL	5.7	6.0	5.3	6.7	7.0	6.7	6.3	6.7	7.0	7.0	6.7	6.7	6.5
APR 2036	5.3	4.7	6.0	7.0	6.7	6.7	6.0	7.0	7.3	7.0	7.0	6.7	6.4
MACH I	5.3	5.0	5.3	7.7	7.3	5.7	5.7	6.7	7.7	7.0	7.0	7.0	6.4
SIENNA	5.7	5.3	5.3	7.0	6.7	7.0	5.7	6.7	7.0	7.0	7.0	7.0	6.4
BRIGHTSTAR SLT	7.0	6.3	6.3	6.0	6.3	6.0	6.3	7.3	6.7	6.0	6.7	6.0	6.4
HAVEN (APR 2038)	6.3	6.0	6.7	6.7	7.0	6.7	5.7	6.0	7.0	6.0	7.0	6.0	6.4
BAR LP 10972	6.0	5.7	5.7	7.0	7.0	6.3	6.3	6.7	7.0	6.3	6.7	6.0	6.4
PST-2NKM	6.0	5.3	6.3	6.7	6.7	6.3	6.3	7.0	6.7	6.3	6.7	6.3	6.4
BONNEVILLE	5.7	5.0	5.0	7.0	6.7	6.7	6.0	6.3	7.0	7.0	7.0	7.0	6.4
IS-PR 409	5.3	5.0	5.7	7.0	6.3	6.3	6.0	6.7	7.0	7.0	7.0	7.0	6.4
PIZZAZZ 2 GLR (PR 909)	5.3	5.0	5.0	7.0	6.0	6.7	6.0	7.0	7.0	7.0	7.0	7.0	6.3
IS-PR 489	5.3	5.0	5.7	7.0	7.0	6.3	5.7	6.0	6.7	7.0	7.0	7.0	6.3
UNO	5.7	4.7	5.0	6.7	6.3	6.3	6.0	7.0	7.0	7.0	7.0	6.7	6.3
DLF LGT 4182	6.0	5.0	5.7	8.0	7.0	5.7	5.3	6.7	7.0	6.0	6.0	6.3	6.2
IS-PR 469	4.0	3.7	4.7	7.3	6.0	6.7	6.3	7.0	7.3	7.0	7.3	7.3	6.2
OCTANE	4.7	4.7	5.0	7.0	6.7	6.7	6.0	6.3	7.0	6.7	7.0	7.0	6.2
RAD-PR62	5.0	5.0	5.0	6.7	7.0	6.0	6.0	7.0	7.0	6.7	6.7	6.7	6.2
BAR LP 7608	6.0	6.3	6.3	6.7	6.0	6.0	6.0	6.3	6.7	6.3	5.7	6.0	6.2
PPG-PR 165	5.3	4.0	4.3	7.0	6.0	7.0	6.0	6.3	7.0	7.0	7.0	7.0	6.2
PICK 4DFHM	4.3	4.0	5.0	7.0	7.0	6.0	5.7	6.3	7.0	6.3	7.0	7.0	6.1
PINNACLE	4.7	4.3	4.3	6.0	6.0	5.7	5.7	5.7	6.0	6.0	6.3	5.7	5.5
LINN	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.3	5.0	5.1
LSD VALUE	2.4	2.3	2.0	0.4	0.7	0.8	0.8	0.8	0.4	0.6	0.6	0.7	0.6
C.V. (%)	22.3	23.3	19.8	3.9	6.6	7.8	8.1	7.1	3.4	5.0	5.3	6.2	5.8

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

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

TABLE 9. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
2011 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
RINOVO	6.3	6.7	7.0	7.0	7.7	6.7	7.3	7.3	6.7	6.0	6.0	6.3	6.8
IS-PR 491	6.0	6.7	7.0	6.3	7.3	7.0	7.7	7.0	6.3	6.3	6.0	6.7	6.7
IS-PR 469	6.0	6.7	7.0	7.0	7.7	6.7	7.0	6.7	6.0	6.3	6.0	6.3	6.6
PPG-PR 121	6.0	6.3	6.7	6.3	7.3	7.0	7.3	6.7	6.0	6.7	6.3	6.3	6.6
WICKED (SRX-4RHD)	6.3	6.3	7.0	7.0	7.0	7.3	7.3	6.7	6.0	6.0	6.0	6.0	6.6
PPG-PR 128	6.3	6.3	6.7	6.0	7.0	6.7	7.7	7.0	6.3	6.3	6.0	6.0	6.5
IS-PR 479	6.0	6.3	6.7	7.0	7.3	7.0	7.0	7.0	6.0	6.0	6.0	6.0	6.5
PSRX-4CAGL	6.3	6.3	7.0	6.7	7.0	7.0	7.0	6.7	6.0	6.0	6.0	6.3	6.5
PST-2BNS	6.0	6.0	6.7	6.3	7.0	7.3	7.7	6.7	6.0	6.3	6.0	6.3	6.5
SIENNA	6.0	6.0	6.7	7.0	7.3	7.0	7.3	6.7	6.0	6.3	5.7	6.3	6.5
SOX FAN (GM3)	6.0	6.3	7.0	6.3	7.0	6.7	7.0	6.7	6.3	6.7	6.0	6.3	6.5
CS-20	6.3	6.3	6.7	7.0	7.0	7.0	7.0	7.0	5.7	6.0	6.0	6.0	6.5
IS-PR 409	6.0	6.3	6.7	6.3	7.3	7.0	7.7	6.7	6.0	6.0	6.0	6.0	6.5
FIESTA 4	6.0	6.3	7.0	6.3	7.0	6.7	6.7	6.7	6.3	6.3	6.0	6.3	6.5
APR 2036	6.0	6.3	7.0	6.7	7.7	7.0	7.3	6.7	6.0	5.7	5.7	5.7	6.5
IS-PR 487	6.0	6.3	7.0	7.0	6.7	7.0	7.3	6.0	6.3	6.7	5.7	5.7	6.5
PPG-PR 164	6.7	6.7	6.7	6.0	7.0	6.7	7.0	6.7	6.0	6.0	6.0	6.0	6.4
IS-PR 463	6.0	6.3	6.7	6.7	7.0	7.0	7.0	7.0	6.0	5.7	6.0	6.0	6.4
RIO VISTA	6.0	6.3	6.3	6.3	7.3	6.7	7.0	6.7	6.0	6.3	6.0	6.0	6.4
PIZZAZZ 2 GLR (PR 909)	5.7	6.0	6.3	6.0	7.0	6.7	7.0	6.7	6.7	6.3	6.0	6.3	6.4
PPG-PR 134	6.0	6.0	7.0	6.3	7.0	6.7	7.3	6.3	6.0	6.0	6.0	6.0	6.4
PANGEA GLR (CL 11701)	6.0	6.7	7.0	7.0	7.0	6.7	7.0	6.3	6.0	6.3	5.3	5.3	6.4
PPG-PR 133	6.0	6.0	6.3	6.0	6.7	6.7	7.0	6.7	6.3	6.7	6.0	6.3	6.4
IS-PR 489	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.0	6.0	6.3	6.0	6.3	6.4
IS-PR 492	6.0	6.0	6.7	6.3	7.0	7.0	7.3	6.0	6.0	6.3	5.7	6.0	6.4
ISG-30	5.7	6.0	6.7	6.7	7.0	7.0	7.0	6.3	5.7	5.7	6.0	6.7	6.4
PALMER V	6.3	6.0	6.3	6.3	7.0	6.7	6.7	6.7	6.0	6.0	6.0	6.3	6.4
PPG-PR 137	6.0	6.0	7.0	6.7	7.0	6.7	7.0	6.7	5.7	6.0	5.7	6.0	6.4
IS-PR 488	6.0	6.3	7.0	6.0	6.7	6.7	7.0	6.3	6.0	6.0	6.0	6.0	6.3
OCTANE	6.0	6.0	6.7	7.0	6.7	6.7	6.7	6.0	6.0	6.0	6.0	6.3	6.3
PPG-PR 136	6.0	6.7	6.7	6.3	7.0	6.3	7.0	6.3	5.7	6.0	6.0	6.0	6.3
PPG-PR 143	6.0	6.0	6.7	6.3	7.3	6.3	6.3	6.3	6.0	6.3	6.0	6.3	6.3
A-35	6.0	6.7	7.0	6.7	7.7	7.0	7.0	6.0	5.0	5.7	5.3	5.7	6.3
BONNEVILLE	6.0	6.0	6.3	6.0	6.7	6.7	7.0	6.3	6.0	6.3	6.0	6.3	6.3
DLF LGD-3026	6.0	6.3	7.0	6.7	7.0	6.7	6.7	5.7	5.3	6.0	6.0	6.3	6.3
INSIGHT	6.0	6.3	6.7	6.7	7.7	6.7	6.7	6.0	6.0	5.7	5.3	6.0	6.3
PST-2DR9	6.0	6.0	6.3	6.0	7.0	7.0	7.0	6.0	6.0	6.0	6.0	6.3	6.3
RAD-PR55R	6.0	6.0	7.0	7.0	7.3	7.0	6.3	6.0	6.0	5.7	5.7	5.7	6.3
EVOLUTION (S85)	6.0	6.7	6.7	6.7	7.0	7.0	6.7	6.0	6.0	5.7	5.7	5.7	6.3
MACH I	5.3	6.3	6.3	6.7	7.0	7.0	7.0	6.3	6.0	6.0	6.0	5.7	6.3
PPG-PR 142	6.0	6.3	6.7	7.0	7.0	6.3	6.7	6.7	6.0	5.7	5.7	5.7	6.3
JR-178	6.0	6.0	7.0	6.3	6.7	6.7	7.0	6.7	6.0	5.7	5.7	5.7	6.3
LTP-PR 135	6.0	6.0	6.3	6.3	7.0	7.0	7.0	6.3	6.0	6.0	5.7	5.7	6.3
LTP-RAE	6.0	6.7	6.3	6.3	6.7	6.7	6.7	6.3	6.0	6.0	5.7	6.0	6.3
SR 4650 (PSRX-3701)	6.0	6.0	7.0	6.7	6.7	6.3	7.0	6.3	5.3	6.0	5.7	6.3	6.3
CL 307	5.7	6.0	6.0	6.3	6.7	6.7	7.0	6.3	6.0	6.3	6.0	6.0	6.3

TABLE 9. TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT CORVALLIS, OR (PACIFIC REGION) 1/
(CONT'D)
2011 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
DLF LGD-3022	6.0	6.0	6.0	6.0	7.0	6.3	6.7	6.7	6.0	6.0	6.0	6.3	6.3
PPG-PR 140	5.7	6.0	6.3	6.3	7.0	6.7	6.7	6.0	6.0	6.0	6.0	6.3	6.3
CS-PR66	5.7	6.0	7.0	6.3	7.0	7.0	7.0	6.0	5.7	5.7	5.7	5.7	6.2
GO-PR60	6.0	6.0	6.0	6.0	7.3	6.7	7.0	6.0	6.0	6.0	6.0	5.7	6.2
ISG-31	5.7	6.0	6.3	6.0	7.0	7.0	7.0	6.3	6.0	5.7	5.7	6.0	6.2
PRX-4GM1	6.0	6.0	6.3	6.0	7.0	6.7	7.0	6.7	5.7	5.7	5.7	6.0	6.2
KARMA (PICK 10401)	6.0	6.0	7.0	6.3	7.3	6.7	6.7	6.0	5.7	5.7	5.3	5.7	6.2
PPG-PR 165	6.0	6.0	6.7	6.3	7.0	7.0	6.7	6.0	5.7	5.7	5.3	6.0	6.2
HAVEN (APR 2038)	6.0	6.0	6.3	6.0	6.3	6.7	7.0	6.0	6.0	6.0	6.0	6.0	6.2
SIDEWAYS (PSRX-S84)	6.0	6.3	6.3	6.0	7.0	6.7	7.0	5.7	5.7	5.7	6.0	6.0	6.2
UNO	6.0	6.3	6.7	6.0	7.0	6.3	7.0	6.3	6.0	5.7	5.7	5.3	6.2
CL 11601	6.0	6.0	7.0	6.0	6.3	6.3	7.0	6.0	6.0	6.0	5.7	5.7	6.2
CST	6.0	6.3	7.0	6.3	6.7	6.0	7.0	6.3	5.7	5.7	5.7	5.3	6.2
PPG-PR 138	6.0	6.0	6.3	6.0	7.0	6.7	6.7	6.3	5.7	5.7	5.7	6.0	6.2
2NJK	6.0	6.0	6.3	6.0	7.0	6.7	7.0	6.3	5.7	5.7	5.3	5.7	6.1
MANHATTAN 6 GLR (PST-2MAGS)	5.7	6.0	6.3	6.3	6.7	6.7	7.0	6.3	5.7	5.7	5.7	5.7	6.1
PLAYOFF 2 (P02)	5.7	6.3	6.0	6.0	7.0	7.0	6.7	5.7	5.7	6.0	5.7	6.0	6.1
APR 2445	6.3	6.0	6.7	6.0	6.7	6.7	7.0	6.3	5.7	5.3	5.3	5.3	6.1
SRX-4MSH	5.7	6.0	6.3	6.0	7.0	6.7	7.3	6.0	5.7	5.7	5.3	5.7	6.1
GO-G37	5.7	6.0	6.7	6.7	7.0	7.0	7.0	6.0	5.3	5.3	5.3	5.3	6.1
BAR LP 10970	5.7	6.0	6.0	6.3	7.0	6.7	7.3	6.0	5.3	6.0	5.3	5.3	6.1
PST-2MG7	5.7	6.0	6.3	6.3	6.7	6.7	7.0	6.0	5.3	5.7	5.7	5.7	6.1
PICK 4DFHM	5.7	6.0	6.0	6.0	6.7	6.3	6.7	6.0	5.7	5.7	6.0	6.0	6.1
ISG-36	5.3	6.0	6.7	6.7	7.3	7.0	6.3	6.0	5.3	5.7	5.3	5.0	6.1
PST-2NKM	5.7	5.7	6.3	6.0	6.7	6.7	7.0	6.0	5.3	6.0	5.7	5.7	6.1
DOMINATOR (PST-2AG4)	6.0	6.3	6.3	6.3	6.3	6.7	7.0	6.0	5.3	5.3	5.3	5.3	6.0
ALLANTE	5.7	6.0	6.3	6.3	7.0	6.3	6.7	6.0	5.3	6.0	5.0	5.3	6.0
BAR LP 10969	5.3	6.0	7.0	6.3	6.7	6.3	7.0	5.7	5.3	5.7	5.0	5.7	6.0
PST-204D	5.7	5.7	6.0	6.0	7.0	7.0	6.7	5.0	5.0	6.0	6.0	6.0	6.0
PST-2TQL	5.7	6.0	6.7	6.0	6.7	6.3	6.7	6.0	5.3	5.7	5.0	5.7	6.0
DLF LGT 4182	5.7	6.0	6.0	6.0	6.7	7.0	6.7	5.0	5.3	6.0	5.3	6.0	6.0
APR 2320	6.0	6.0	6.0	6.0	6.7	6.7	7.0	6.0	5.3	5.0	5.0	5.0	5.9
PST-2K9	5.0	6.0	6.3	6.3	6.3	6.3	6.7	5.3	5.0	5.7	5.7	6.0	5.9
BRIGHTSTAR SLT	5.3	6.0	6.0	6.0	6.3	6.3	7.0	5.7	5.3	5.7	5.0	5.7	5.9
PST-2ACR	5.7	5.7	6.0	6.0	6.3	6.3	7.0	6.0	5.3	5.3	5.3	5.3	5.9
RAD-PR62	6.0	6.0	6.0	5.7	6.7	6.7	6.7	6.0	5.0	5.0	5.0	5.3	5.8
GO-DHS	5.3	6.0	6.0	6.0	6.7	6.7	6.3	5.7	5.0	5.3	5.3	5.3	5.8
BAR LP 7608	5.3	6.0	6.0	6.0	6.7	6.7	6.7	5.3	5.3	5.3	4.7	5.3	5.8
BAR LP 10972	6.0	6.0	6.0	6.0	7.0	6.7	7.0	5.7	5.0	4.7	4.3	4.3	5.7
JR-192	5.0	5.0	6.0	6.0	7.0	6.3	6.7	5.7	5.0	5.3	4.7	5.3	5.7
PINNACLE	5.7	6.0	6.0	5.7	6.7	6.0	6.3	4.3	5.0	5.3	5.3	5.3	5.6
LINN	4.0	5.0	5.0	5.0	6.3	6.0	6.3	5.0	5.0	5.3	5.3	5.3	5.3
LSD VALUE	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.6	0.7	0.7	0.9	0.3
C.V. (%)	6.1	5.9	6.5	6.5	6.6	7.2	6.8	7.9	6.9	7.8	7.5	9.4	3.3

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 10. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT RIVERSIDE (TRAFFIC STUDY), CA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT COVER IN SEPTEMBER			PERCENT COVER IN OCTOBER			PERCENT COVER IN NOVEMBER			QUALITY RATINGS					
	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	AUG	SEP	OCT	NOV	DEC	MEAN
KARMA (PICK 10401)	15.0	20.0	65.0	5.0	65.0	30.0	5	53.3	41.7	7.0	4.3	3.0	3.0	3.0	4.1
A-35	20.0	20.0	60.0	5.0	78.3	16.7	5	65.0	30.0	8.0	4.3	2.0	2.7	3.0	4.0
GO-G37	20.0	23.3	56.7	5.0	70.0	25.0	5	53.3	41.7	7.7	3.7	2.7	3.0	3.0	4.0
IS-PR 463	21.7	20.0	58.3	5.0	70.0	25.0	5	66.7	28.3	7.0	3.7	2.7	3.0	3.7	4.0
IS-PR 491	18.3	16.7	65.0	5.0	71.7	23.3	5	53.3	41.7	7.0	4.0	2.3	3.3	3.3	4.0
ISG-36	20.0	28.3	51.7	5.0	71.7	23.3	5	56.7	38.3	8.0	3.7	2.7	3.0	2.7	4.0
JR-192	20.0	20.0	60.0	5.0	66.7	28.3	5	55.0	40.0	7.0	4.3	2.7	3.0	3.0	4.0
PST-204D	18.3	20.0	61.7	5.0	68.3	26.7	5	50.0	45.0	6.7	4.3	2.7	3.0	3.3	4.0
PST-2MG7	21.7	18.3	60.0	5.0	73.3	21.7	4	60.0	36.0	6.7	4.0	2.3	3.7	3.3	4.0
EVOLUTION (S85)	18.3	28.3	53.3	5.7	65.0	29.3	5	56.7	38.3	7.3	3.7	3.0	3.0	3.0	4.0
2NJK	23.3	15.0	61.7	5.0	70.0	25.0	5	53.3	41.7	6.7	4.0	2.7	3.0	3.0	3.9
PANGEA GLR (CL 11701)	20.0	25.0	55.0	5.0	71.7	23.3	5	60.0	35.0	7.0	3.7	2.7	3.0	3.0	3.9
CS-PR66	20.0	23.3	56.7	5.0	75.0	20.0	5	60.0	35.0	7.7	3.7	2.3	3.0	3.0	3.9
GO-PR60	21.7	20.0	58.3	5.0	71.7	23.3	5	63.3	31.7	7.0	4.0	2.7	2.7	3.0	3.9
PST-2BNS	21.7	20.0	58.3	5.0	71.7	23.3	5	56.7	38.3	7.0	4.0	2.3	3.0	3.3	3.9
SRX-4MSH	18.3	18.3	63.3	5.0	71.7	23.3	5	56.7	38.3	6.7	4.3	2.3	2.7	3.3	3.9
PST-2NKM	21.7	25.0	53.3	5.0	70.0	25.0	5	56.7	38.3	7.0	3.7	2.3	3.0	3.0	3.8
RINOVO	23.3	30.0	46.7	5.0	71.7	23.3	5	66.7	28.3	7.3	3.3	2.7	2.7	3.0	3.8
BAR LP 10970	21.7	26.7	51.7	5.0	75.0	20.0	5	61.7	33.3	7.0	3.7	2.3	2.7	3.0	3.7
BAR LP 10972	18.3	23.3	58.3	5.0	70.0	25.0	5	63.3	31.7	6.7	3.3	2.7	2.7	3.0	3.7
BONNEVILLE	23.3	20.0	56.7	5.0	70.0	25.0	5	63.3	31.7	6.3	3.7	2.7	2.7	3.0	3.7
BRIGHTSTAR SLT	21.7	28.3	50.0	5.0	76.7	18.3	5	60.0	35.0	7.3	3.7	2.0	2.7	3.0	3.7
DLF LGD-3022	23.3	31.7	45.0	5.0	75.0	20.0	5	56.7	38.3	7.0	3.7	2.0	3.0	3.0	3.7
FIESTA 4	16.7	26.7	56.7	5.0	71.7	23.3	5	60.0	35.0	7.0	3.7	2.3	2.7	3.0	3.7
SOX FAN (GM3)	18.3	25.0	56.7	5.0	73.3	21.7	5	63.3	31.7	6.3	3.7	2.7	2.7	3.0	3.7
IS-PR 469	23.3	21.7	55.0	5.0	71.7	23.3	5	63.3	31.7	7.0	3.7	2.3	2.7	3.0	3.7
IS-PR 479	23.3	18.3	58.3	5.0	52.7	42.3	5	66.7	28.3	7.0	3.7	2.3	2.7	3.0	3.7
ISG-31	18.3	40.0	41.7	5.0	76.7	18.3	5	66.7	28.3	7.3	3.7	2.3	2.7	2.7	3.7
MACH I	23.3	20.0	56.7	5.0	75.0	20.0	5	68.3	26.7	6.7	4.0	2.3	2.3	3.0	3.7
PPG-PR 140	21.7	30.0	48.3	5.0	70.0	25.0	5	60.0	35.0	7.0	3.3	2.7	2.7	2.7	3.7
SR 4650 (PSRX-3701)	18.3	31.7	50.0	5.0	75.0	20.0	5	66.7	28.3	7.0	3.7	3.0	2.3	2.7	3.7
PSRX-4CAGL	20.0	20.0	60.0	5.0	71.7	23.3	5	60.0	35.0	6.3	4.0	2.7	2.7	3.0	3.7
PST-2K9	21.7	25.0	53.3	5.0	76.7	18.3	5	66.7	28.3	7.0	3.7	2.3	2.7	2.7	3.7
APR 2445	20.0	30.0	50.0	5.0	76.7	18.3	5	66.7	28.3	7.3	3.7	2.0	2.3	2.7	3.6
CL 307	23.3	33.3	43.3	5.0	75.0	20.0	5	63.3	31.7	6.7	3.3	2.3	2.7	3.0	3.6
IS-PR 487	23.3	23.3	53.3	5.0	76.7	18.3	5	66.7	28.3	7.0	3.7	2.3	2.7	2.3	3.6
IS-PR 488	30.0	20.0	50.0	5.0	75.0	20.0	5	63.3	31.7	6.3	3.7	2.3	2.7	3.0	3.6
JR-178	18.3	33.3	48.3	5.0	76.7	18.3	5	70.0	25.0	7.3	3.7	2.3	2.3	2.3	3.6
OCTANE	25.0	21.7	53.3	5.0	73.3	21.7	5	60.0	35.0	6.3	3.7	2.3	2.7	3.0	3.6
PPG-PR 142	23.3	30.0	46.7	5.0	75.0	20.0	5	63.3	31.7	6.7	3.7	2.3	2.7	2.7	3.6
DOMINATOR (PST-2AG4)	21.7	31.7	46.7	5.0	75.0	20.0	5	58.3	36.7	7.3	3.3	2.3	2.3	2.7	3.6
CS-20	20.0	40.0	40.0	5.0	76.7	18.3	5	73.3	21.7	7.7	3.0	2.3	2.3	2.3	3.5
CST	26.7	28.3	45.0	5.0	75.0	20.0	5	70.0	25.0	7.0	3.3	2.3	2.3	2.3	3.5
GO-DHS	23.3	26.7	50.0	5.7	76.7	17.7	5	66.7	28.3	6.7	3.7	2.0	2.3	3.0	3.5
IS-PR 492	23.3	25.0	51.7	5.0	76.7	18.3	5	70.0	25.0	6.3	3.7	2.3	2.3	2.7	3.5
ISG-30	26.7	30.0	43.3	5.0	76.7	18.3	5	73.3	21.7	7.7	3.3	2.0	2.0	2.7	3.5
PALMER V	30.0	25.0	45.0	5.0	73.3	21.7	5	63.3	31.7	6.3	3.3	2.3	2.7	2.7	3.5

TABLE 10. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT RIVERSIDE (TRAFFIC STUDY), CA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	PERCENT COVER IN SEPTEMBER			PERCENT COVER IN OCTOBER			PERCENT COVER IN NOVEMBER			QUALITY RATINGS					
NAME	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	STRAW	BARE SOIL	GREEN	AUG	SEP	OCT	NOV	DEC	MEAN
PPG-PR 138	23.3	38.3	38.3	5.0	75.0	20.0	5.0	46.0	49.0	7.0	3.0	2.3	2.3	2.7	3.5
PPG-PR 143	28.3	36.7	35.0	5.0	78.3	16.7	5.0	63.3	31.7	7.0	3.0	2.0	2.7	3.0	3.5
PRX-4GM1	16.7	28.3	55.0	5.0	78.3	16.7	5.0	70.0	25.0	6.7	3.7	2.0	2.3	3.0	3.5
SIDEWAYS (PSRX-S84)	23.3	28.3	48.3	5.0	75.0	20.0	5.0	63.3	31.7	6.3	3.7	2.7	2.3	2.7	3.5
PST-2DR9	21.7	28.3	50.0	5.0	76.7	18.3	5.0	66.7	28.3	6.3	3.3	2.3	2.7	2.7	3.5
MANHATTAN 6 GLR (PST-2MAGS)	26.7	31.7	41.7	5.0	78.3	16.7	5.0	70.0	25.0	6.7	3.3	2.3	2.3	2.7	3.5
PST-2TQL	21.7	30.0	48.3	5.0	78.3	16.7	5.0	70.0	25.0	6.7	3.3	2.3	2.3	3.0	3.5
RAD-PR62	23.3	31.7	45.0	5.0	81.7	13.3	5.0	78.3	16.7	7.0	3.7	2.0	2.0	2.7	3.5
WICKED (SRX-4RHD)	21.7	30.0	48.3	5.0	78.3	16.7	3.3	71.7	25.0	7.0	3.3	2.3	2.3	2.7	3.5
UNO	23.3	33.3	43.3	5.0	76.7	18.3	5.0	68.3	26.7	7.0	3.0	2.3	2.7	2.7	3.5
LTP-RAE	23.3	36.7	40.0	5.0	75.0	20.0	5.0	75.0	20.0	7.0	3.0	2.3	2.3	2.3	3.4
PLAYOFF 2 (P02)	23.3	33.3	43.3	5.0	80.0	15.0	5.0	66.7	28.3	7.0	3.3	2.0	2.3	2.3	3.4
PICK 4DFHM	25.0	20.0	55.0	5.0	75.0	20.0	5.0	63.3	31.7	6.3	3.7	2.0	2.0	3.0	3.4
PPG-PR 133	25.0	35.0	40.0	5.0	80.0	15.0	5.0	75.0	20.0	6.7	3.3	2.3	2.3	2.3	3.4
PPG-PR 136	21.7	36.7	41.7	5.0	78.3	16.7	5.0	75.0	20.0	6.7	3.3	2.3	2.3	2.3	3.4
PST-2ACR	25.0	33.3	41.7	5.7	76.7	17.7	5.3	71.7	23.0	6.7	3.0	2.3	2.3	2.7	3.4
RAD-PR55R	21.7	35.0	43.3	5.0	81.7	13.3	5.0	78.3	16.7	7.3	3.0	2.0	2.3	2.3	3.4
ALLANTE	23.3	41.7	35.0	5.0	76.7	18.3	5.0	68.3	26.7	6.0	3.0	2.3	2.7	2.3	3.3
APR 2036	26.7	31.7	41.7	5.0	80.0	15.0	5.0	76.7	18.3	7.0	3.3	2.0	2.0	2.3	3.3
APR 2320	25.0	28.3	46.7	5.0	76.7	18.3	5.0	75.0	20.0	6.0	3.7	2.0	2.0	2.7	3.3
BAR LP 10969	21.7	38.3	40.0	5.0	81.7	13.3	5.0	76.7	18.3	7.0	3.0	2.0	2.0	2.3	3.3
BAR LP 7608	21.7	31.7	46.7	5.0	80.0	15.0	5.0	60.0	35.0	6.3	3.3	2.0	2.3	2.7	3.3
INSIGHT	25.0	35.0	40.0	5.0	76.7	18.3	5.0	76.7	18.3	6.7	3.0	2.3	2.0	2.3	3.3
IS-PR 489	30.0	21.7	48.3	5.0	76.7	18.3	5.0	66.7	28.3	6.0	3.3	2.0	2.3	3.0	3.3
PPG-PR 121	26.7	40.0	33.3	5.0	83.3	11.7	5.0	78.3	16.7	7.0	3.0	2.0	2.0	2.3	3.3
PPG-PR 128	25.0	31.7	43.3	5.0	80.0	15.0	5.0	70.0	25.0	6.3	3.3	2.0	2.3	2.7	3.3
PPG-PR 134	23.3	36.7	40.0	5.0	80.0	15.0	5.0	76.7	18.3	7.0	3.0	2.3	2.0	2.3	3.3
PPG-PR 137	26.7	36.7	36.7	5.0	73.3	21.7	5.0	53.7	41.3	6.3	3.0	2.3	2.3	2.7	3.3
PPG-PR 164	21.7	41.7	36.7	5.0	78.3	16.7	5.0	75.0	20.0	6.7	3.0	2.3	2.0	2.7	3.3
RIO VISTA	25.0	36.7	38.3	5.0	83.3	11.7	5.0	65.0	30.0	7.0	3.0	2.0	2.0	2.3	3.3
HAVEN (APR 2038)	28.3	35.0	36.7	5.0	80.0	15.0	5.0	76.7	18.3	6.0	3.0	2.3	2.0	2.7	3.2
DLF LGT 4182	38.3	25.0	36.7	5.0	83.3	11.7	5.0	81.7	13.3	6.7	2.7	2.0	2.0	2.7	3.2
IS-PR 409	25.0	36.7	38.3	5.0	80.0	15.0	5.0	78.3	16.7	6.7	3.0	2.0	2.0	2.3	3.2
LTP-PR 135	21.7	46.7	31.7	5.0	85.0	10.0	5.0	78.3	16.7	6.7	2.7	2.0	2.0	2.0	3.1
PPG-PR 165	20.0	38.3	41.7	5.0	81.7	13.3	5.0	80.0	15.0	6.3	3.0	2.0	2.0	2.3	3.1
PIZZAZZ 2 GLR (PR 909)	18.3	53.3	28.3	5.0	86.7	8.3	5.0	81.7	13.3	7.0	2.3	2.0	2.0	2.0	3.1
SIENNA	25.0	45.0	30.0	5.0	85.0	10.0	5.0	80.0	15.0	6.7	2.7	2.0	2.0	2.3	3.1
CL 11601	20.0	50.0	30.0	5.0	81.7	13.3	5.0	75.0	20.0	6.3	2.7	2.0	2.0	2.0	3.0
DLF LGD-3026	25.0	43.3	31.7	5.0	83.3	11.7	5.0	81.7	13.3	6.3	2.7	2.0	1.7	2.0	2.9
PINNACLE	23.3	36.7	40.0	5.0	84.3	10.7	5.0	76.7	18.3	5.7	3.0	1.7	1.7	1.7	2.7
LINN	26.7	55.0	18.3	4.3	92.0	3.7	4.3	87.7	8.0	5.0	2.0	1.3	1.3	1.3	2.2
LSD VALUE	13.6	19.8	21.1	1.0	31.4	32.2	1.6	47.3	47.2	0.8	1.5	1.6	1.8	1.2	0.7
C.V. (%)	22.2	33.3	23.1	4.8	11.6	46.4	7.7	20.4	48.5	7.0	18.2	20.5	24.8	19.4	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.

3/ TRAFFIC IS APPLIED USING A BRINKMANN TRAFFIC SIMULATOR TO APPROXIMATE 60 FOOTBALL GAMES OVER A TEN WEEK PERIOD IN FALL.

TABLE 11. PERCENT GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT UNIVERSITY PARK (TRAFFIC STUDY), PA 2/ 3/
2011 DATA

NAME	BEFORE TRAFFIC IS STARTING AUGUST 27		AFTER TRAFFIC IS COMPLETED OCTOBER 10	
	NO WEAR	WEAR	NO WEAR	WEAR
LTP-PR 135	99	99.0	98.7	88.0
CL 11601	99	99.0	99.0	84.3
SIENNA	99	99.0	99.0	84.3
IS-PR 492	99	99.0	99.0	84.0
PPG-PR 128	99	99.0	99.0	84.0
IS-PR 469	99	99.0	99.0	83.7
PPG-PR 140	99	99.0	99.0	83.0
IS-PR 487	99	99.0	99.0	82.7
WICKED (SRX-4RHD)	99	99.0	99.0	82.3
PPG-PR 138	99	99.0	99.0	82.0
SOX FAN (GM3)	99	99.0	99.0	82.0
LTP-RAE	99	99.0	99.0	81.7
PPG-PR 142	99	99.0	99.0	81.7
IS-PR 488	99	99.0	99.0	81.3
KARMA (PICK 10401)	99	99.0	99.0	81.3
PPG-PR 165	99	99.0	99.0	81.3
EVOLUTION (S85)	99	99.0	99.0	81.0
IS-PR 489	99	99.0	99.0	80.7
PPG-PR 164	99	99.0	99.0	80.7
RINOVO	99	99.0	99.0	80.7
DLF LGD-3022	99	99.0	99.0	80.0
PPG-PR 133	99	99.0	99.0	80.0
SR 4650 (PSRX-3701)	99	99.0	99.0	80.0
UNO	99	99.0	99.0	80.0
PLAYOFF 2 (P02)	99	99.0	98.3	79.3
DLF LGD-3026	99	99.0	99.0	79.0
CST	99	99.0	99.0	78.7
BAR LP 10969	99	99.0	99.0	78.3
RAD-PR55R	99	99.0	98.3	78.3
INSIGHT	99	99.0	98.7	77.7
PPG-PR 137	99	99.0	99.0	77.7
PPG-PR 143	99	99.0	99.0	77.7
APR 2320	99	99.0	99.0	77.3
BAR LP 10972	99	98.3	99.0	77.3
PST-204D	99	99.0	99.0	77.3
OCTANE	99	99.0	99.0	77.0
PALMER V	99	99.0	99.0	77.0
PPG-PR 136	99	99.0	99.0	77.0
RIO VISTA	99	99.0	99.0	77.0
APR 2445	99	99.0	99.0	76.7
BRIGHTSTAR SLT	99	99.0	98.7	76.7
PANGEA GLR (CL 11701)	99	99.0	99.0	76.7
CL 307	99	99.0	99.0	76.3
HAVEN (APR 2038)	99	99.0	99.0	76.3
PIZZAZZ 2 GLR (PR 909)	99	99.0	98.7	76.3
PSRX-4CAGL	99	99.0	99.0	76.3
DOMINATOR (PST-2AG4)	99	99.0	99.0	76.0

TABLE 11. (CONT'D) PERCENT GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/ AT UNIVERSITY PARK (TRAFFIC STUDY), PA 2/ 3/
2011 DATA

NAME	BEFORE TRAFFIC IS STARTING AUGUST 27 NO WEAR	BEFORE TRAFFIC IS STARTING AUGUST 27 WEAR	AFTER TRAFFIC IS COMPLETED OCTOBER 10 NO WEAR	AFTER TRAFFIC IS COMPLETED OCTOBER 10 WEAR
GO-G37	99.0	99.0	99.0	76.0
IS-PR 491	99.0	99.0	99.0	76.0
PRX-4GM1	99.0	99.0	99.0	76.0
BONNEVILLE	99.0	99.0	99.0	75.7
PST-2BNS	99.0	99.0	99.0	75.7
PST-2NKM	99.0	99.0	99.0	75.7
PST-2TQL	99.0	99.0	99.0	75.7
MACH I	99.0	99.0	99.0	75.3
PPG-PR 121	99.0	99.0	99.0	75.3
2NJK	99.0	99.0	98.7	75.0
PICK 4DFHM	99.0	98.7	99.0	75.0
CS-PR66	99.0	99.0	99.0	74.3
BAR LP 10970	99.0	99.0	99.0	74.0
IS-PR 479	99.0	99.0	99.0	74.0
ISG-30	99.0	99.0	99.0	74.0
PINNACLE	99.0	99.0	96.3	74.0
IS-PR 409	99.0	99.0	98.7	73.3
ISG-31	99.0	99.0	99.0	73.3
ISG-36	99.0	99.0	99.0	73.3
SRX-4MSH	99.0	99.0	98.3	73.3
SIDEWAYS (PSRX-S84)	99.0	99.0	99.0	73.0
GO-PR60	99.0	99.0	99.0	72.3
APR 2036	99.0	99.0	99.0	71.7
PST-2ACR	99.0	99.0	98.7	71.7
A-35	99.0	99.0	98.3	71.0
MANHATTAN 6 GLR (PST-2MAGS)	99.0	99.0	99.0	70.3
JR-192	99.0	99.0	98.3	70.0
PPG-PR 134	99.0	99.0	99.0	70.0
PST-2DR9	99.0	99.0	99.0	69.3
CS-20	99.0	99.0	98.7	69.0
GO-DHS	99.0	99.0	98.0	69.0
IS-PR 463	99.0	99.0	99.0	68.7
PST-2K9	99.0	99.0	99.0	68.7
ALLANTE	99.0	99.0	99.0	68.3
FIESTA 4	99.0	99.0	99.0	67.7
JR-178	99.0	99.0	99.0	67.7
LINN	96.7	97.0	96.7	67.7
PST-2MG7	99.0	98.7	98.3	67.3
RAD-PR62	99.0	99.0	99.0	66.0
BAR LP 7608	99.0	98.7	99.0	65.0
DLF LGT 4182	98.3	98.7	98.0	49.3
LSD VALUE	0.3	0.5	0.7	21.0
C.V. (%)	0.2	0.3	0.4	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.
3/ TRAFFIC IS APPLIED USING A BRINKMANN TRAFFIC SIMULATOR TO APPROXIMATE 60 FOOTBALL GAMES OVER A TEN WEEK PERIOD IN FALL.

TABLE 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT BLACKSBURG (TRAFFIC STUDY), VA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT GREEN COVER BEFORE TRAFFIC 8/29/11	PERCENT GREEN COVER NO TRAFFIC 9/27/11	PERCENT GREEN COVER TRAFFIC 9/27/11	PERCENT GREEN COVER TRAFFIC 11/2/11	2-WEEKS AFTER LAST TRAFFIC 11/22/11	QUALITY TRAFFIC 11/2/11
HAVEN (APR 2038)	96.0	99.0	81.7	83.3	75.0	5.7
PPG-PR 137	96.0	99.0	88.3	90.0	76.7	5.7
PIZZAZZ 2 GLR (PR 909)	98.0	99.0	88.3	85.0	80.0	5.7
SRX-4MSH	98.0	99.0	86.7	86.7	83.3	5.7
BAR LP 10970	98.0	99.0	81.7	83.3	78.3	5.3
CL 11601	96.0	99.0	85.0	83.3	80.0	5.3
GO-G37	96.0	97.7	73.3	86.7	76.7	5.3
IS-PR 488	97.0	99.0	83.3	80.0	86.7	5.3
IS-PR 491	92.0	92.7	86.7	65.0	85.0	5.3
JR-192	98.0	99.0	88.3	83.3	85.0	5.3
LTP-PR 135	97.0	99.0	85.0	83.3	78.3	5.3
PPG-PR 134	96.0	99.0	80.0	75.0	75.0	5.3
PST-204D	96.0	99.0	81.7	86.7	81.7	5.3
PST-2DR9	98.0	99.0	80.0	80.0	73.3	5.3
PST-2TQL	97.0	99.0	80.0	76.7	81.7	5.3
RINOVO	96.0	99.0	86.7	80.0	76.7	5.3
DLF LGD-3022	94.3	99.0	76.7	71.7	68.3	5.0
SOX FAN (GM3)	98.0	99.0	86.7	86.7	86.7	5.0
IS-PR 487	98.3	99.0	85.0	78.3	75.0	5.0
IS-PR 492	93.7	96.0	88.3	83.3	83.3	5.0
ISG-31	95.0	96.0	80.0	83.3	83.3	5.0
JR-178	97.0	99.0	85.0	78.3	78.3	5.0
OCTANE	95.3	99.0	78.3	75.0	78.3	5.0
PPG-PR 121	94.3	99.0	80.0	73.3	73.3	5.0
PPG-PR 128	96.0	99.0	78.3	73.3	76.7	5.0
PPG-PR 133	96.0	99.0	83.3	81.7	76.7	5.0
PPG-PR 136	94.3	99.0	76.7	80.0	68.3	5.0
PPG-PR 138	94.3	99.0	80.0	78.3	75.0	5.0
PPG-PR 142	96.0	99.0	81.7	78.3	80.0	5.0
PRX-4GM1	98.0	99.0	83.3	81.7	78.3	5.0
SIDEWAYS (PSRX-S84)	96.0	99.0	83.3	78.3	80.0	5.0
PST-2K9	97.0	99.0	80.0	85.0	76.7	5.0
MANHATTAN 6 GLR (PST-2MAGS)	94.3	99.0	78.3	80.0	75.0	5.0
APR 2036	92.7	99.0	86.7	73.3	81.7	4.7
APR 2320	96.0	99.0	85.0	81.7	80.0	4.7
APR 2445	94.3	99.0	86.7	75.0	85.0	4.7
BRIGHTSTAR SLT	94.7	97.7	78.3	78.3	73.3	4.7
CS-PR66	95.3	99.0	76.7	75.0	70.0	4.7
DLF LGD-3026	95.0	97.7	80.0	80.0	70.0	4.7
FIESTA 4	96.0	97.7	76.7	76.7	73.3	4.7
INSIGHT	96.3	99.0	71.7	73.3	70.0	4.7
IS-PR 463	98.0	99.0	83.3	78.3	75.0	4.7
IS-PR 479	95.0	99.0	78.3	76.7	78.3	4.7
ISG-30	95.0	99.0	83.3	80.0	76.7	4.7
ISG-36	92.7	97.7	71.7	78.3	71.7	4.7
PLAYOFF 2 (PO2)	97.0	97.7	76.7	73.3	75.0	4.7
PICK 4DFHM	96.0	99.0	83.3	78.3	76.7	4.7

TABLE 12. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS (CONT'D) AT BLACKSBURG (TRAFFIC STUDY), VA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT GREEN COVER BEFORE TRAFFIC 8/29/11	PERCENT GREEN COVER NO TRAFFIC 9/27/11	PERCENT GREEN COVER TRAFFIC 9/27/11	PERCENT GREEN COVER TRAFFIC 11/2/11	2-WEEKS AFTER LAST TRAFFIC 11/22/11	QUALITY TRAFFIC 11/2/11
PPG-PR 140	95.0	99.0	81.7	71.7	71.7	4.7
SR 4650 (PSRX-3701)	98.0	99.0	85.0	83.3	76.7	4.7
PST-2ACR	92.7	97.7	81.7	73.3	78.3	4.7
DOMINATOR (PST-2AG4)	96.0	99.0	80.0	76.7	70.0	4.7
EVOLUTION (S85)	98.0	99.0	83.3	76.7	75.0	4.7
UNO	90.0	96.0	81.7	66.7	61.7	4.7
A-35	93.3	99.0	76.7	75.0	76.7	4.3
ALLANTE	92.7	99.0	73.3	68.3	61.7	4.3
BAR LP 10969	96.0	99.0	78.3	66.7	71.7	4.3
BAR LP 7608	97.0	99.0	76.7	70.0	63.3	4.3
BONNEVILLE	93.7	99.0	76.7	71.7	73.3	4.3
PANGEA GLR (CL 11701)	97.0	99.0	78.3	75.0	78.3	4.3
CL 307	96.0	99.0	83.3	78.3	73.3	4.3
CST	98.0	99.0	85.0	83.3	81.7	4.3
GO-DHS	92.7	99.0	75.0	73.3	75.0	4.3
GO-PR60	95.3	99.0	76.7	73.3	73.3	4.3
IS-PR 469	97.0	99.0	80.0	80.0	75.0	4.3
IS-PR 489	97.0	99.0	85.0	83.3	80.0	4.3
LTP-RAE	97.0	99.0	86.7	71.7	75.0	4.3
MACH I	92.7	99.0	68.3	66.7	58.3	4.3
PALMER V	94.3	99.0	76.7	73.3	71.7	4.3
KARMA (PICK 10401)	98.0	99.0	78.3	76.7	68.3	4.3
PPG-PR 143	93.3	99.0	80.0	70.0	68.3	4.3
PPG-PR 164	95.0	99.0	83.3	73.3	75.0	4.3
PPG-PR 165	96.0	99.0	78.3	65.0	75.0	4.3
PSRX-4CAGL	91.0	99.0	76.7	65.0	71.7	4.3
PST-2MG7	96.0	96.0	81.7	86.7	78.3	4.3
RIO VISTA	97.0	99.0	83.3	81.7	75.0	4.3
2NJK	98.0	99.0	81.7	81.7	68.3	4.0
CS-20	91.7	99.0	75.0	61.7	71.7	4.0
DLF LGT 4182	90.0	99.0	68.3	68.3	63.3	4.0
PINNACLE	92.7	97.7	66.7	65.0	63.3	4.0
PST-2NKM	98.0	97.7	90.0	83.3	83.3	4.0
RAD-PR55R	95.3	99.0	71.7	61.7	70.0	4.0
RAD-PR62	95.0	99.0	78.3	61.7	71.7	4.0
SIENNA	94.3	99.0	75.0	73.3	73.3	4.0
WICKED (SRX-4RHD)	97.3	99.0	75.0	68.3	61.7	4.0
IS-PR 409	97.0	99.0	76.7	73.3	70.0	3.7
PST-2BNS	97.0	99.0	85.0	73.3	71.7	3.7
BAR LP 10972	94.3	99.0	70.0	66.7	56.7	3.3
LINN	85.0	91.3	55.0	56.7	46.7	2.7
LSD VALUE	6.2	5.7	13.7	28.8	25.8	5.3
C.V. (%)	3.0	1.9	8.5	13.3	13.2	22.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ TRAFFIC IS APPLIED USING A BRINKMANN TRAFFIC SIMULATOR TO APPROXIMATE 60 FOOTBALL GAMES OVER A TEN WEEK PERIOD IN FALL. TRAFFIC APPLIED STARTING 8/31/11, EVERY TUESDAY AND FRIDAY. LAST TRAFFIC APPLIED ON 11/4/11.

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT PUYALLUP (SAND DROUGHT STUDY), WA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	QUALITY RATINGS												
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PIZZAZZ 2 GLR (PR 909)	5.7	5.3	5.3	6.3	7.0	5.0	5.7	4.7	4.7	5.3	6.3	5.0	5.5
CL 11601	5.0	4.7	5.3	5.7	5.0	4.7	5.0	4.3	4.3	5.0	7.0	5.3	5.1
CL 307	6.0	5.3	5.7	5.7	5.7	4.7	4.7	4.0	4.3	4.7	5.7	4.7	5.1
PPG-PR 121	5.3	5.0	5.0	5.3	6.3	5.0	4.3	4.3	4.7	4.3	5.7	5.3	5.1
IS-PR 487	5.3	4.7	5.0	5.3	5.3	5.0	4.7	4.7	4.7	4.3	6.0	4.7	5.0
LTP-RAE	5.0	5.3	4.3	5.3	6.3	5.0	5.0	5.0	4.3	4.3	5.0	4.7	5.0
PANGEA GLR (CL 11701)	5.3	5.0	5.0	5.7	6.3	4.7	4.7	4.0	4.0	5.0	5.7	4.7	5.0
SIENNA	5.0	4.7	4.7	5.7	6.0	5.3	5.0	4.7	4.0	4.7	5.3	4.7	5.0
SR 4650 (PSRX-3701)	5.7	5.0	5.0	6.0	5.7	4.7	4.7	4.7	4.3	4.7	5.0	4.3	5.0
PPG-PR 136	5.0	5.0	5.0	5.3	5.3	5.0	4.7	4.0	4.0	4.7	5.7	4.7	4.9
PPG-PR 164	5.0	5.0	5.0	5.0	6.3	5.0	4.3	4.0	4.3	4.7	5.0	5.0	4.9
RINOVO	5.3	5.0	5.0	5.3	5.0	5.0	5.3	4.0	4.0	4.7	6.0	4.7	4.9
BAR LP 10970	4.7	4.7	4.7	4.7	6.0	5.3	4.7	4.7	4.7	4.0	5.3	4.3	4.8
KARMA (PICK 10401)	5.3	4.7	4.7	5.3	6.3	5.7	4.7	4.3	4.3	3.3	4.7	4.3	4.8
PPG-PR 137	4.7	5.0	4.7	5.0	4.7	4.7	5.0	5.0	4.0	4.7	5.3	4.7	4.8
PPG-PR 142	5.3	4.3	4.7	5.0	5.3	4.7	5.3	4.7	4.3	4.0	5.3	4.3	4.8
PST-2MG7	5.0	4.3	4.7	5.3	5.0	4.3	5.0	4.0	4.3	4.7	6.3	5.0	4.8
PST-2NKM	4.0	4.0	4.3	5.3	5.7	4.7	5.0	5.0	4.0	4.3	5.7	5.0	4.8
UNO	4.0	5.0	5.0	6.0	6.0	5.3	5.3	3.7	4.0	4.0	5.3	4.3	4.8
APR 2320	5.0	4.0	3.7	5.0	5.3	4.7	5.0	4.3	4.7	4.7	5.7	4.0	4.7
APR 2445	4.7	4.7	4.0	4.7	5.7	4.3	5.0	4.7	4.0	4.0	5.7	4.7	4.7
BONNEVILLE	5.7	5.3	4.7	5.7	5.7	4.7	4.0	4.3	4.0	4.0	4.7	4.0	4.7
CS-PR66	4.3	4.0	4.0	4.7	4.7	4.7	5.0	5.7	5.0	4.3	5.3	4.3	4.7
DLF LGD-3022	5.0	5.3	4.7	6.0	4.7	4.0	4.3	4.3	4.0	4.3	5.0	4.7	4.7
IS-PR 463	4.7	4.7	4.0	5.0	5.3	4.7	4.7	4.3	4.3	4.3	5.7	4.7	4.7
MACH I	4.7	4.7	4.7	5.0	5.3	4.7	4.0	4.7	4.3	4.7	5.3	4.3	4.7
PPG-PR 138	4.7	4.0	4.7	5.3	5.3	4.0	4.7	5.0	4.0	4.0	5.7	4.7	4.7
PST-2BNS	5.0	4.7	5.0	5.3	4.3	5.3	5.0	4.7	4.0	4.0	4.3	4.7	4.7
MANHATTAN 6 GLR (PST-2MAGS)	4.0	4.3	5.0	6.0	5.3	4.7	4.0	4.7	4.3	3.7	5.3	4.7	4.7
RIO VISTA	5.0	4.7	4.7	5.0	6.0	4.7	4.7	4.0	4.0	4.3	5.3	4.3	4.7
EVOLUTION (S85)	4.7	4.7	4.3	5.0	6.0	4.0	4.3	4.0	4.3	5.0	5.3	4.7	4.7
SIDEWAYS (PSRX-S84)	5.7	4.3	5.0	5.0	5.0	4.3	4.0	4.0	4.3	4.7	5.7	4.0	4.7
A-35	4.7	4.7	4.7	4.7	5.7	4.7	5.0	4.3	4.0	4.0	4.7	4.3	4.6
DOMINATOR (PST-2AG4)	5.3	4.3	4.3	5.0	5.3	5.0	4.7	4.7	4.0	3.7	5.3	4.0	4.6
HAVEN (APR 2038)	4.3	4.0	4.3	4.7	5.3	4.3	5.0	4.7	4.3	4.3	5.0	4.3	4.6
INSIGHT	4.3	4.7	3.7	5.3	5.0	4.3	5.0	5.0	4.3	4.0	5.3	4.7	4.6
IS-PR 409	4.7	4.3	4.7	4.7	5.3	4.3	4.3	4.3	4.0	4.0	5.7	4.7	4.6
IS-PR 469	4.7	4.3	4.7	4.0	5.0	4.3	4.7	4.3	4.3	4.3	5.3	4.7	4.6
IS-PR 488	4.7	4.3	4.7	5.7	4.3	4.0	4.3	4.0	4.3	4.7	6.0	4.7	4.6
IS-PR 489	5.0	4.7	4.3	4.7	4.3	4.0	4.3	4.3	4.0	4.7	5.7	5.0	4.6
IS-PR 491	4.7	4.3	4.0	5.3	6.0	4.3	4.3	3.7	4.0	4.3	5.7	4.3	4.6
ISG-31	4.0	4.7	4.7	5.3	5.0	4.3	5.0	4.0	4.0	4.0	5.0	4.7	4.6
OCTANE	5.0	4.7	4.7	5.0	5.0	4.3	4.3	4.0	4.0	4.3	5.3	4.3	4.6
PPG-PR 128	5.0	4.3	5.0	5.0	5.3	4.3	4.0	4.3	4.0	4.3	4.7	4.3	4.6
PPG-PR 133	4.7	5.0	4.0	5.0	5.3	4.0	5.0	4.3	4.0	4.3	5.3	4.3	4.6
PPG-PR 134	4.7	4.0	4.0	5.0	5.3	4.3	5.0	4.3	4.3	4.7	5.0	4.7	4.6
PPG-PR 143	5.0	4.3	5.0	4.7	4.7	4.7	4.7	4.7	4.0	4.0	5.0	4.3	4.6

TABLE 13. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT PUYALLUP (SAND DROUGHT STUDY), WA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	QUALITY RATINGS												
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PRX-4GM1	4.3	4.3	5.0	5.0	5.0	4.3	4.7	4.3	4.0	4.0	5.0	4.7	4.6
PST-204D	4.0	4.0	4.0	5.0	5.3	4.3	5.0	4.7	4.7	4.0	5.7	4.7	4.6
PST-2DR9	4.3	4.3	4.3	5.3	4.7	4.0	5.3	4.7	4.3	4.0	5.0	4.3	4.6
PST-2TQL	4.0	4.0	4.0	4.7	4.7	5.0	5.0	5.0	4.3	4.7	5.3	4.3	4.6
IS-PR 492	4.7	4.3	4.3	4.7	5.0	4.0	4.7	4.3	4.0	4.3	5.3	4.7	4.5
ISG-30	5.3	4.7	4.3	4.7	5.0	4.0	4.7	4.0	4.0	3.7	5.0	4.7	4.5
JR-178	5.0	4.0	4.3	4.7	6.0	5.0	5.0	3.0	4.0	4.0	4.7	4.0	4.5
LTP-PR 135	4.7	4.3	4.3	4.7	5.3	4.3	4.3	4.7	4.3	4.3	4.7	4.3	4.5
PALMER V	4.7	4.3	4.0	5.3	5.0	4.0	4.7	4.3	4.0	4.3	5.3	4.3	4.5
SOX FAN (GM3)	5.3	4.7	4.3	5.3	5.0	4.3	4.0	3.7	4.0	4.0	4.7	4.7	4.5
SRX-4MSH	4.3	4.0	4.7	4.7	5.0	4.3	4.3	4.7	4.3	4.3	4.7	4.7	4.5
WICKED (SRX-4RHD)	5.0	4.3	4.0	4.7	5.0	4.7	4.3	4.7	4.3	4.0	4.3	4.7	4.5
ALLANTE	4.0	4.0	3.7	5.3	5.7	4.3	5.0	4.7	4.0	4.0	4.7	4.0	4.4
BAR LP 10972	4.3	4.0	3.7	4.3	5.0	4.7	4.3	4.7	4.0	4.3	5.3	4.3	4.4
BAR LP 7608	4.7	3.7	3.7	4.7	4.7	5.0	4.7	4.3	4.0	3.7	4.7	4.7	4.4
FIESTA 4	5.0	4.0	4.3	5.0	5.3	4.7	4.0	3.7	4.0	3.7	5.0	4.3	4.4
GO-G37	4.7	4.3	4.7	5.3	5.7	4.3	4.3	3.7	3.7	3.7	4.3	4.0	4.4
PPG-PR 165	4.7	4.3	4.3	4.7	4.7	5.0	5.0	4.0	4.0	4.0	4.3	4.3	4.4
RAD-PR62	4.7	3.7	4.0	4.7	5.3	4.0	4.7	4.7	4.3	4.0	4.7	4.3	4.4
APR 2036	4.0	4.0	4.0	4.7	4.3	4.0	4.0	3.7	4.0	4.0	5.7	5.0	4.3
BRIGHTSTAR SLT	4.7	4.3	3.7	5.0	4.7	4.7	4.7	4.0	4.0	4.0	4.7	3.7	4.3
GO-PR60	4.7	3.7	4.3	4.0	5.3	4.7	4.0	4.0	4.0	4.3	4.0	4.3	4.3
ISG-36	5.0	3.7	4.0	4.7	5.3	4.0	4.3	4.0	4.0	3.7	4.3	4.0	4.3
PSRX-4CAGL	5.3	4.3	4.3	4.3	5.0	4.0	4.0	3.3	3.7	4.3	4.7	4.3	4.3
RAD-PR55R	4.7	4.0	4.3	4.0	4.7	4.0	4.3	4.3	4.0	4.0	4.7	4.3	4.3
2NJK	4.0	3.7	3.3	5.0	4.3	4.0	4.3	4.7	4.0	4.3	4.7	4.0	4.2
BAR LP 10969	4.7	4.0	3.7	4.7	4.0	4.3	4.3	4.0	4.0	3.7	5.0	4.0	4.2
CST	4.3	4.0	4.0	4.7	4.3	4.0	4.3	4.0	4.0	3.7	4.7	4.0	4.2
JR-192	4.0	3.7	3.3	4.3	5.7	5.0	5.0	3.7	4.0	3.3	4.7	3.7	4.2
PICK 4DFHM	4.7	4.0	4.3	4.3	4.3	4.0	4.3	3.7	4.0	3.7	4.7	4.0	4.2
PST-2ACR	4.0	4.3	4.0	5.0	4.3	4.0	4.3	4.0	4.0	4.0	4.7	4.0	4.2
CS-20	4.0	4.3	4.3	4.3	4.7	4.0	4.0	4.0	3.7	3.7	4.3	4.0	4.1
DLF LGD-3026	4.7	4.0	3.7	4.0	4.3	4.0	4.7	3.3	3.7	4.0	4.3	4.3	4.1
IS-PR 479	4.0	3.7	3.3	4.3	4.3	4.0	4.3	3.7	4.0	4.3	4.7	4.3	4.1
PINNACLE	4.0	4.0	3.0	5.0	4.0	4.3	5.0	4.3	4.0	3.3	4.7	4.0	4.1
PPG-PR 140	4.0	3.3	3.0	4.0	4.3	4.0	4.3	4.3	4.3	4.3	5.0	4.7	4.1
PLAYOFF 2 (PO2)	4.0	3.7	3.0	4.7	4.3	4.0	4.3	4.0	4.3	3.7	4.3	4.0	4.0
DLF LGT 4182	4.0	3.3	3.0	4.0	4.0	4.0	3.7	4.0	4.0	4.0	4.7	4.3	3.9
GO-DHS	4.0	3.7	4.3	4.7	4.0	4.0	3.7	3.3	4.0	3.7	4.0	4.0	3.9
PST-2K9	4.3	3.7	3.3	4.0	4.3	4.0	4.0	3.7	4.0	3.7	4.3	4.0	3.9
LINN	4.3	3.0	3.3	5.0	3.0	4.0	4.7	3.7	3.3	3.3	3.0	3.0	3.6
LSD VALUE	1.4	0.9	1.4	1.1	1.6	1.1	2.6	2.1	1.2	2.6	2.2	2.0	0.5
C.V. (%)	13.6	11.8	16.0	11.9	15.8	11.6	14.9	16.5	9.6	16.5	16.7	13.4	6.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ TO INDUCE DROUGHT CONDITIONS, IRRIGATION IS REDUCED TO 50-65%ET DURING SUMMER. THEREFORE, SUMMER RATINGS REFLECT INDUCED CHRONIC DROUGHT. FALL AND WINTER RATINGS REFLECT RECOVERY FROM CHRONIC DROUGHT CONDITIONS.

TABLE 13. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT PUYALLUP (SAND DROUGHT STUDY), WA 1/

2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	GENETIC COLOR	SPRING DENSITY	WINTER COLOR	DROUGHT TOLERANCE DORMANCY	DROUGHT TOLERANCE RECOVERY	MOWING QUALITY JUNE	MOWING QUALITY SEPTEMBER	RED THREAD RATINGS SEPTEMBER	RED THREAD RATINGS OCTOBER	RED THREAD RATINGS DECEMBER	PERCENT ESTABLISHMENT IN 2010 SEPTEMBER	PERCENT ESTABLISHMENT IN 2010 NOVEMBER	PERCENT ESTABLISHMENT IN 2010 DECEMBER
PIZZAZZ 2 GLR (PR 909)	6.3	8.0	6.7	5.0	7.0	5.3	6.3	5.0	5.3	5.3	70.0	95.0	90.0
CL 11601	5.7	8.3	6.0	5.0	6.3	4.0	6.7	5.3	5.3	5.7	70.0	88.3	85.0
CL 307	6.3	9.0	6.3	4.0	6.3	4.7	6.0	4.3	5.0	5.3	76.7	95.0	95.0
PPG-PR 121	6.7	8.3	7.0	4.3	6.7	4.7	6.0	5.0	3.7	4.3	70.0	93.3	90.0
IS-PR 487	5.7	8.3	6.7	5.3	6.7	5.7	7.0	5.0	5.3	4.7	66.7	83.3	88.3
LTP-RAE	6.7	8.3	6.3	5.3	6.3	5.0	6.3	5.0	5.0	5.3	66.7	90.0	91.7
PANGEA GLR (CL 11701)	7.0	8.3	7.0	4.7	6.3	5.7	7.3	5.0	4.7	5.0	76.7	88.3	93.3
SIENNA	7.0	8.3	5.7	5.3	6.0	6.7	7.3	4.3	4.7	5.0	63.3	93.3	86.7
SR 4650 (PSRX-3701)	6.0	8.3	6.3	5.0	6.7	5.0	5.7	5.0	5.3	4.3	80.0	93.3	88.3
PPG-PR 136	6.7	8.7	6.7	4.7	6.0	5.3	6.0	4.3	4.7	5.0	60.0	91.7	90.0
PPG-PR 164	5.7	8.7	6.7	4.0	6.0	5.3	4.3	4.0	5.0	4.7	70.0	95.0	91.7
RINOVO	6.3	8.0	6.7	4.7	5.7	5.7	4.7	3.7	4.7	5.3	63.3	93.3	90.0
BAR LP 10970	6.0	8.0	6.0	5.0	6.7	7.3	7.3	5.7	4.3	4.3	66.7	88.3	86.7
KARMA (PICK 10401)	6.0	8.0	6.7	4.3	6.3	6.3	6.7	4.7	3.3	4.3	73.3	90.0	88.3
PPG-PR 137	6.7	8.3	6.7	5.7	6.0	4.0	5.7	4.7	5.0	4.7	56.7	90.0	86.7
PPG-PR 142	6.3	7.7	6.7	4.7	6.0	5.0	6.3	4.7	4.7	4.3	70.0	88.3	88.3
PST-2MG7	6.3	7.7	5.7	4.7	6.3	4.3	6.0	4.7	4.3	5.0	66.7	88.3	86.7
PST-2NKM	5.7	7.3	6.0	5.3	5.3	5.3	6.7	4.3	4.7	5.0	63.3	88.3	83.3
UNO	6.3	8.0	6.7	4.0	5.7	5.3	6.3	4.3	4.3	5.0	70.0	90.0	86.7
APR 2320	7.0	7.7	5.3	5.0	7.7	7.3	8.0	5.7	4.7	4.3	63.3	90.0	83.3
APR 2445	6.0	7.3	6.7	5.0	6.0	4.3	5.7	4.7	4.0	5.3	63.3	88.3	85.0
BONNEVILLE	6.3	8.0	6.3	4.0	6.0	3.7	5.0	4.0	4.0	4.0	63.3	91.7	91.7
CS-PR66	6.7	7.0	6.3	6.7	7.0	5.7	7.7	6.0	4.7	4.3	63.3	85.0	83.3
DLF LGD-3022	5.7	8.7	6.7	4.7	6.0	4.0	5.7	4.7	4.0	4.3	73.3	91.7	88.3
IS-PR 463	7.0	7.3	6.3	5.0	5.3	4.7	6.0	4.3	4.3	5.0	56.7	91.7	91.7
MACH I	6.7	7.7	6.7	4.7	6.0	4.7	6.0	5.3	5.3	4.7	66.7	86.7	86.7
PPG-PR 138	6.3	7.3	6.0	5.0	6.3	4.7	7.3	5.0	4.7	4.7	70.0	91.7	90.0
PST-2BNS	6.7	7.3	6.3	5.3	6.3	6.0	6.7	4.7	4.3	3.7	63.3	86.7	85.0
MANHATTAN 6 GLR (PST-2MAGS)	5.7	7.3	6.7	4.7	6.0	4.3	6.3	4.3	5.0	5.3	63.3	85.0	85.0
RIO VISTA	6.3	7.3	6.3	4.3	6.0	5.0	5.0	4.0	4.0	5.0	63.3	86.7	86.7
EVOLUTION (S85)	6.3	8.0	6.3	4.7	6.0	3.7	6.0	4.7	5.3	5.3	63.3	93.3	85.0
SIDEWAYS (PSRX-S84)	6.0	8.0	6.3	4.3	6.0	3.7	5.0	4.7	5.0	5.0	66.7	88.3	88.3
A-35	7.7	7.7	7.3	4.3	6.3	7.7	7.3	4.7	4.3	4.0	63.3	86.7	83.3
DOMINATOR (PST-2AG4)	6.3	7.7	5.3	5.3	6.3	6.0	6.3	4.7	3.7	4.0	56.7	86.7	86.7
HAVEN (APR 2038)	5.3	7.7	5.3	4.3	6.3	4.3	6.3	4.7	4.0	4.3	70.0	83.3	83.3
INSIGHT	6.0	7.3	6.0	5.7	6.0	6.0	6.7	4.3	4.0	5.0	70.0	86.7	86.7
IS-PR 409	6.7	8.0	6.3	3.7	5.0	4.3	4.7	4.0	5.0	5.0	63.3	86.7	83.3
IS-PR 469	6.7	7.3	6.3	5.0	6.3	5.0	5.7	4.3	5.3	6.0	60.0	90.0	88.3
IS-PR 488	7.0	8.0	6.7	4.3	6.0	4.0	5.7	4.3	5.0	5.3	63.3	86.7	86.7
IS-PR 489	5.7	8.0	6.3	4.7	6.0	3.0	5.3	4.7	5.0	5.3	66.7	91.7	86.7
IS-PR 491	7.0	7.7	6.7	5.0	5.3	3.7	5.0	4.0	4.7	4.3	56.7	91.7	86.7
ISG-31	6.3	7.7	6.3	4.0	6.0	4.0	6.3	4.3	3.3	4.7	63.3	91.7	85.0
OCTANE	7.3	8.0	6.7	4.0	5.0	3.7	4.3	3.7	4.3	5.0	73.3	88.3	90.0
PPG-PR 128	6.0	7.7	7.0	5.3	6.0	5.0	6.3	4.7	4.7	4.7	73.3	86.7	88.3
PPG-PR 133	6.7	7.7	6.7	5.0	5.7	3.7	5.7	4.3	4.3	4.7	56.7	85.0	85.0
PPG-PR 134	6.0	7.3	6.3	5.7	6.7	4.7	7.0	5.0	5.7	5.3	56.7	85.0	85.0
PPG-PR 143	6.7	8.0	6.7	4.3	6.3	5.0	6.3	4.3	4.3	4.7	66.7	86.7	88.3
PRX-4GM1	6.0	7.0	6.3	4.0	5.3	4.0	5.7	4.3	4.7	5.3	53.3	86.7	86.7
PST-204D	5.3	7.3	5.3	5.0	6.0	5.7	7.0	5.0	3.7	4.7	70.0	83.3	81.7

TABLE 13. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT PUYALLUP (SAND DROUGHT STUDY), WA 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	GENETIC COLOR	SPRING DENSITY	WINTER COLOR	DROUGHT TOLERANCE DORMANCY	DROUGHT TOLERANCE RECOVERY	MOWING QUALITY JUNE	MOWING QUALITY SEPTEMBER	RED THREAD RATINGS SEPTEMBER	RED THREAD RATINGS OCTOBER	RED THREAD RATINGS DECEMBER	PERCENT ESTABLISHMENT IN 2010 SEPTEMBER	PERCENT ESTABLISHMENT IN 2010 NOVEMBER	PERCENT ESTABLISHMENT IN 2010 DECEMBER
PST-2DR9	5.3	6.7	6.3	4.7	6.0	4.0	6.3	4.7	4.3	4.7	60.0	88.3	85.0
PST-2TQL	6.7	7.0	5.7	4.7	6.7	5.7	6.7	5.0	4.7	4.0	60.0	80.0	81.7
IS-PR 492	6.7	7.0	5.7	4.7	6.3	3.3	5.3	4.0	5.0	5.0	56.7	86.7	86.7
ISG-30	7.7	7.7	6.3	5.0	6.0	5.0	6.0	4.0	4.0	4.3	63.3	88.3	86.7
JR-178	6.3	7.0	6.3	3.3	5.0	5.3	5.3	4.3	4.0	4.3	66.7	88.3	88.3
LTP-PR 135	6.0	7.7	6.0	5.0	5.7	4.0	6.0	4.7	4.3	4.3	73.3	88.3	86.7
PALMER V	6.0	6.7	5.7	4.7	6.0	5.0	6.0	4.7	4.7	4.7	63.3	88.3	88.3
SOX FAN (GM3)	6.3	7.7	5.3	3.7	6.0	3.7	5.3	4.7	4.3	4.3	66.7	90.0	90.0
SRX-4MSH	6.0	7.7	4.7	4.0	5.7	4.0	5.7	5.0	4.3	4.3	60.0	81.7	86.7
WICKED (SRX-4RHD)	7.0	7.3	6.0	5.3	6.7	5.0	6.3	5.3	5.7	5.0	70.0	91.7	85.0
ALLANTE	5.3	7.3	5.0	5.3	6.0	6.0	7.0	4.3	4.0	4.0	66.7	85.0	86.7
BAR LP 10972	6.0	7.3	6.0	5.0	6.0	5.7	6.7	4.7	5.0	4.0	63.3	86.7	83.3
BAR LP 7608	5.7	7.0	5.0	5.3	5.7	6.3	7.0	4.0	3.7	4.3	70.0	83.3	83.3
FIESTA 4	6.3	6.7	7.0	3.7	5.7	5.3	5.3	4.3	4.3	4.0	66.7	85.0	86.7
GO-G37	7.0	7.7	6.3	3.7	6.0	5.3	5.7	4.3	3.3	4.0	63.3	88.3	85.0
PPG-PR 165	6.7	7.7	6.7	4.7	6.0	5.3	4.7	4.3	4.3	3.7	66.7	85.0	86.7
RAD-PR62	5.0	6.7	5.0	5.0	6.7	5.7	7.3	4.3	4.0	4.3	63.3	91.7	86.7
APR 2036	6.7	7.0	6.0	4.3	6.0	4.7	6.0	4.0	5.3	5.3	56.7	86.7	85.0
BRIGHTSTAR SLT	5.3	7.7	5.3	5.3	6.3	5.7	7.7	4.7	3.7	3.7	70.0	88.3	85.0
GO-PR60	7.0	7.0	5.0	4.7	6.0	6.7	7.3	4.3	4.3	4.3	60.0	85.0	86.7
ISG-36	7.3	7.3	7.0	3.7	6.0	4.7	6.7	4.3	3.7	5.0	56.7	85.0	86.7
PSRX-4CAGL	7.0	6.7	6.7	4.0	5.7	3.7	4.0	4.0	4.3	4.0	66.7	88.3	90.0
RAD-PR55R	7.3	7.0	6.0	5.0	6.0	5.3	7.0	4.7	5.3	5.0	63.3	80.0	85.0
2NJK	5.7	7.0	5.7	5.0	6.3	4.3	6.0	4.3	4.3	4.3	63.3	85.0	83.3
BAR LP 10969	5.3	7.3	6.0	4.3	6.3	3.7	5.3	4.0	3.7	4.0	66.7	83.3	86.7
CST	5.7	7.3	6.3	4.0	6.3	3.7	5.3	4.7	3.7	4.7	63.3	85.0	83.3
JR-192	6.3	6.3	4.7	5.0	6.0	6.7	7.0	4.0	3.0	3.7	70.0	83.3	80.0
PICK 4DFHM	6.3	7.0	6.0	4.0	5.3	3.3	5.0	4.3	3.7	4.3	70.0	83.3	85.0
PST-2ACR	6.3	7.3	6.0	4.3	5.3	3.3	5.3	4.0	4.3	4.3	66.7	85.0	85.0
CS-20	7.3	7.3	7.0	4.3	5.3	4.0	5.0	3.7	3.7	4.3	63.3	86.7	83.3
DLF LGD-3026	6.7	7.3	6.7	4.3	5.3	3.0	4.3	4.0	3.7	4.0	70.0	90.0	86.7
IS-PR 479	8.0	7.0	5.7	4.7	5.7	5.0	6.0	4.0	5.0	4.7	60.0	81.7	85.0
PINNACLE	5.0	7.3	4.7	5.0	5.7	5.7	7.0	4.3	4.0	3.7	70.0	85.0	83.3
PPG-PR 140	6.0	6.3	5.7	4.7	5.3	3.3	5.3	5.0	3.7	4.7	50.0	81.7	81.7
PLAYOFF 2 (PO2)	6.0	6.7	5.3	4.7	6.0	3.7	6.7	4.3	4.0	4.7	56.7	83.3	81.7
DLF LGT 4182	6.7	6.3	5.0	5.0	5.7	4.3	6.7	4.7	4.7	4.7	50.0	80.0	78.3
GO-DHS	7.7	6.7	6.3	3.3	5.0	4.7	6.0	4.0	3.3	4.0	60.0	81.7	80.0
PST-2K9	6.0	6.7	5.3	4.3	5.0	4.3	6.0	4.3	4.0	4.0	63.3	81.7	83.3
LINN	5.0	6.0	4.7	3.7	5.0	3.0	6.3	3.0	3.7	3.7	63.3	83.3	81.7
LSD VALUE	0.9	1.6	1.3	3.4	1.6	1.4	1.9	2.6	3.0	4.5	15.5	7.7	8.3
C.V. (%)	8.8	9.9	11.5	20.6	11.3	17.4	16.0	16.8	21.3	20.9	11.2	4.7	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.

3/ TO INDUCE DROUGHT CONDITIONS, IRRIGATION IS REDUCED TO 50-65%ET DURING SUMMER. THEREFORE, SUMMER RATINGS REFLECT INDUCED CHRONIC DROUGHT. FALL AND WINTER RATINGS REFLECT RECOVERY FROM CHRONIC DROUGHT CONDITIONS.

TABLE 13. (CONT'D) PERCENT GREEN COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT PUYALLUP (SAND DROUGHT STUDY), WA 2/ 3/ 4/
2011 DATA

NAME	6_22	8_4	8_12	8_19	8_25	9_1	9_8	9_15
PPG-PR 134	83.5	82.3	84.7	86.0	84.0	77.7	83.7	93.3
CL 11601	73.5	73.0	72.3	77.0	82.0	74.7	75.3	93.0
IS-PR 479	80.0	71.3	74.0	75.3	66.3	66.0	78.3	91.7
WICKED (SRX-4RHD)	77.0	82.7	86.0	84.3	81.0	78.0	82.7	91.7
BAR LP 10969	84.0	76.0	82.7	80.7	80.7	73.0	81.3	91.3
EVOLUTION (S85)	79.5	69.3	71.3	72.0	82.0	71.3	79.0	91.0
IS-PR 488	82.0	70.0	79.3	78.7	80.3	76.0	82.0	90.7
PPG-PR 128	86.5	76.0	82.3	78.7	75.7	76.3	83.0	90.7
CS-PR66	81.0	84.0	87.0	85.7	87.3	83.7	86.7	90.3
PPG-PR 137	69.5	78.7	87.0	85.0	80.3	80.0	81.7	90.3
ALLANTE	78.5	83.7	87.0	80.7	78.7	73.0	85.3	89.7
SIDEWAYS (PSRX-S84)	82.5	66.0	82.7	82.0	76.3	66.3	73.0	89.7
HAVEN (APR 2038)	78.5	71.7	77.7	77.3	79.3	75.7	77.7	89.0
PST-2BNS	79.0	76.7	83.7	82.3	75.7	73.3	82.3	89.0
APR 2320	86.0	79.7	76.3	79.7	84.0	80.0	82.0	88.7
IS-PR 469	82.0	74.3	82.3	80.7	81.0	75.3	80.0	88.7
ISG-30	83.5	74.7	77.7	79.3	80.0	80.0	80.7	88.7
DLF LGT 4182	79.0	74.7	73.0	78.0	83.0	72.3	77.7	88.3
RAD-PR55R	84.0	73.0	79.0	80.7	72.3	75.7	81.7	88.3
SIENNA	89.5	71.3	77.0	77.3	75.3	78.0	76.0	88.3
BRIGHTSTAR SLT	72.0	81.0	84.0	83.0	72.7	77.3	82.0	88.0
CST	84.5	71.3	77.3	72.7	79.0	76.0	78.7	88.0
2NJK	80.5	76.3	80.7	79.7	78.3	73.0	76.0	87.7
CL 307	81.5	83.3	81.3	81.0	80.7	73.7	79.7	87.7
IS-PR 409	85.0	54.0	65.0	63.3	65.3	60.0	74.0	87.3
KARMA (PICK 10401)	88.5	71.0	79.3	81.7	79.0	79.3	80.7	87.3
PPG-PR 136	84.0	63.3	64.7	69.3	76.7	67.0	69.0	87.3
INSIGHT	84.5	77.0	83.3	81.0	81.7	76.3	80.3	87.0
IS-PR 489	70.0	79.3	83.7	81.7	83.0	76.0	77.3	87.0
LINN	64.5	48.3	55.0	55.0	58.3	49.0	63.3	87.0
RIO VISTA	82.0	59.3	68.7	65.0	75.7	65.0	74.3	87.0
APR 2036	83.0	80.3	78.7	77.0	79.7	74.7	74.3	86.7
DLF LGD-3026	74.0	63.0	68.7	68.3	69.7	66.3	73.7	86.7
IS-PR 487	88.0	80.0	86.7	86.7	85.3	77.3	81.7	86.7
LTP-PR 135	83.5	66.0	76.3	73.3	79.3	74.3	80.3	86.7
PPG-PR 142	79.5	75.7	72.0	77.3	75.3	76.3	75.0	86.7
PPG-PR 143	79.5	68.0	76.0	76.0	78.3	75.7	79.7	86.7
PST-2NKM	79.5	70.0	75.0	76.7	74.3	63.3	75.3	86.7
BAR LP 10970	83.0	74.3	78.0	79.7	82.7	77.0	78.7	86.3
PST-2MG7	67.5	68.0	67.7	73.7	74.7	68.3	73.0	86.3
SR 4650 (PSRX-3701)	78.5	82.7	82.7	83.0	81.7	78.0	81.7	86.3
BONNEVILLE	77.0	69.0	80.7	81.3	79.3	74.0	74.3	85.7
LTP-RAE	81.5	81.7	85.3	81.0	82.7	74.7	79.0	85.7
SOX FAN (GM3)	84.5	74.3	78.0	78.0	78.7	73.7	76.7	85.3
IS-PR 492	81.5	70.3	80.7	76.0	76.3	70.7	75.3	85.0
PALMER V	87.5	72.3	80.0	80.7	80.7	74.7	76.3	85.0
PIZZAZZ 2 GLR (PR 909)	84.0	78.0	84.0	80.3	81.7	81.0	82.7	85.0
PST-2ACR	81.0	64.0	72.7	76.7	79.0	73.3	76.3	85.0

TABLE 13. PERCENT GREEN COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) AT PUYALLUP (SAND DROUGHT STUDY), WA 2/ 3/ 4/
2011 DATA

NAME	6_22	8_4	8_12	8_19	8_25	9_1	9_8	9_15
SRX-4MSH	77.5	63.0	67.3	68.3	74.0	69.0	68.0	85.0
DOMINATOR (PST-2AG4)	87.0	71.7	75.0	81.3	79.0	64.7	68.3	84.7
GO-PR60	78.5	62.3	70.0	73.7	71.7	63.0	72.3	84.7
PANGEA GLR (CL 11701)	88.0	69.0	78.3	76.0	75.3	69.7	71.0	84.7
PICK 4DFHM	68.5	72.0	80.3	75.0	77.0	68.0	79.3	84.7
PPG-PR 138	77.0	68.0	74.7	75.3	78.0	71.3	78.0	84.7
MACH I	87.0	75.0	79.3	82.0	74.7	72.0	78.7	84.3
PLAYOFF 2 (PO2)	77.5	84.7	83.7	79.3	75.3	71.7	75.0	84.3
PPG-PR 165	83.5	75.7	81.3	77.0	76.0	77.7	78.0	84.3
PST-204D	82.0	75.7	81.0	80.0	78.7	70.7	78.3	84.3
UNO	83.0	71.0	68.0	62.0	69.7	60.7	74.3	84.3
BAR LP 7608	82.5	72.3	85.7	80.7	81.3	70.7	74.3	84.0
PRX-4GM1	76.5	58.3	65.3	63.0	69.3	62.7	69.3	83.7
APR 2445	83.0	67.0	71.3	73.3	64.3	59.0	68.7	83.3
IS-PR 491	84.5	80.0	80.3	81.3	78.7	68.7	77.7	83.0
BAR LP 10972	82.0	80.3	80.0	81.3	82.3	70.0	76.3	82.7
IS-PR 463	83.5	72.7	77.7	74.0	81.7	72.3	76.0	82.7
RAD-PR62	73.5	78.0	81.3	72.3	80.0	74.3	78.7	82.7
FIESTA 4	84.5	60.7	64.0	63.3	72.0	65.7	74.0	82.3
PPG-PR 133	77.0	75.0	81.7	77.7	77.0	67.7	75.7	82.3
PST-2TQL	79.5	79.0	75.3	79.3	76.0	73.7	77.0	81.7
ISG-31	76.5	69.0	75.3	75.3	64.7	63.7	75.3	81.3
PINNACLE	82.0	67.7	77.0	79.3	68.7	76.7	75.7	81.0
PPG-PR 164	83.5	72.0	74.3	70.7	70.7	67.0	72.0	81.0
PSRX-4CAGL	69.5	64.3	75.7	72.0	73.3	73.0	70.0	81.0
PST-2K9	83.5	74.7	82.3	79.3	80.7	70.0	75.3	81.0
PPG-PR 121	81.5	65.0	73.0	72.7	75.0	74.7	77.0	80.7
PPG-PR 140	79.0	60.0	70.0	68.3	72.0	68.0	71.7	80.0
PST-2DR9	74.5	73.0	76.3	77.3	71.7	69.0	73.7	80.0
MANHATTAN 6 GLR (PST-2MAGS)	81.5	63.0	62.3	64.0	73.7	62.3	70.3	79.3
JR-178	83.0	56.3	61.0	60.0	63.7	63.7	67.0	79.0
OCTANE	75.0	66.7	69.7	72.3	73.7	64.3	71.0	78.7
DLF LGD-3022	80.0	71.3	75.3	75.7	68.0	64.3	70.7	78.3
RINOVO	85.5	76.0	79.3	75.7	69.7	68.0	69.0	78.3
GO-DHS	73.0	67.3	71.7	69.0	72.0	60.3	64.7	77.7
A-35	88.0	82.3	75.7	76.0	73.0	68.7	72.0	77.3
ISG-36	86.0	55.3	60.3	63.3	67.7	62.0	65.3	76.3
CS-20	67.5	67.7	60.3	61.0	59.3	56.0	65.7	75.0
GO-G37	78.5	69.7	72.7	73.3	70.7	67.3	62.3	75.0
JR-192	82.5	73.0	72.7	68.3	67.0	60.3	67.3	73.3
LSD VALUE	26.1	64.9	55.3	41.3	26.7	36.0	29.4	21.0
C.V. (%)	8.3	19.1	16.3	14.3	11.7	14.4	11.0	7.8

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

3/ TO INDUCE DROUGHT CONDITIONS, IRRIGATION IS REDUCED TO 50-65%ET DURING SUMMER. THEREFORE, SUMMER RATINGS REFLECT INDUCED CHRONIC DROUGHT. FALL AND WINTER RATINGS REFLECT RECOVERY FROM CHRONIC DROUGHT CONDITIONS.
4/ DATA WAS COLLECTED USING A DIGITAR CAMERA WITH LIGHT BOX AND IMAGES WERE ANALYZED USING SIGMASCAN SOFTWARE.

TABLE 14 PERCENT COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT KINGSTON (SALT TOLERANCE IN GREENHOUSE), RI 2/
2011 DATA

NAME	PERCENT COVER FOR DIFFERENT SALT LEVELS (PPM)					ADJUSTED PERCENT COVER RATINGS FOR DIFFERENT SALT LEVELS (PPM)			
	5000 3/	7500	10000	12500	15000	7500 4/	10000	12500	15000
MANHATTAN 6 GLR (PST-2MAGS)	95.0	99.0	89.5	79.5	66.0	104.3	94.3	83.8	69.3
RINOVO	38.3	52.3	53.3	35.8	19.8	153.8	149.0	94.8	62.8
PPG-PR 121	82.3	88.8	84.3	66.0	41.3	109.0	102.3	80.5	50.0
IS-PR 479	92.0	91.0	82.8	62.0	38.3	99.3	89.8	67.5	41.8
PINNACLE	84.8	83.8	85.0	62.5	34.0	99.0	100.8	73.8	40.8
PST-2NKM	85.0	87.3	77.8	55.0	32.8	103.8	90.8	62.8	37.3
UNO	87.5	89.3	85.0	67.3	32.0	102.3	97.3	76.8	36.8
RAD-PR62	85.8	92.5	86.0	48.0	29.0	108.5	101.3	56.0	34.5
BAR LP 7608	91.5	97.3	94.3	73.3	30.8	107.5	105.0	80.0	33.5
BRIGHTSTAR SLT	88.8	81.0	75.0	56.8	30.5	91.5	84.0	63.0	33.5
PICK 4DFHM	77.0	80.5	69.5	55.5	26.0	104.5	90.8	70.8	33.3
EVOLUTION (S85)	81.5	72.0	71.8	40.3	25.3	89.8	90.8	52.0	32.8
SRX-4MSH	40.5	54.3	44.0	31.0	15.0	156.8	125.5	72.5	32.8
HAVEN (APR 2038)	72.8	78.5	70.5	48.5	23.5	107.3	97.0	67.3	32.5
IS-PR 409	74.5	80.0	68.3	37.0	23.5	107.8	91.5	49.0	32.0
A-35	77.8	82.5	77.3	63.0	24.5	106.3	99.5	81.0	31.5
INSIGHT	53.0	60.5	59.0	45.5	16.5	118.0	114.8	87.8	31.3
BONNEVILLE	84.3	82.0	83.5	55.3	26.5	98.0	99.8	66.3	31.0
PLAYOFF 2 (P02)	92.3	90.5	91.0	67.8	28.3	98.0	98.5	73.0	30.8
ISG-36	85.3	84.8	80.8	63.0	26.0	99.3	94.8	74.0	30.3
PANGEA GLR (CL 11701)	78.0	87.5	88.3	50.3	21.8	113.3	116.0	66.8	30.0
SR 4650 (PSRX-3701)	79.5	77.5	66.3	46.8	24.0	99.0	82.0	57.8	29.5
CST	90.5	89.0	90.8	68.3	26.3	98.5	100.5	75.5	29.3
GO-G37	87.8	91.3	91.0	73.0	25.8	104.5	104.5	84.8	29.3
BAR LP 10970	80.5	75.5	62.8	52.8	24.0	94.8	78.0	65.0	27.8
JR-178	84.0	78.3	73.0	55.3	23.8	93.0	86.5	65.3	27.5
ISG-31	85.3	88.5	90.8	71.5	23.0	104.0	107.0	84.5	27.3
PPG-PR 138	90.3	92.0	94.3	63.5	24.5	102.8	105.3	69.5	27.3
PST-2K9	92.5	92.0	90.8	73.3	23.5	100.0	99.0	79.5	26.8
OCTANE	44.8	45.0	31.0	22.8	10.8	103.3	73.3	54.3	26.5
DLF LGT 4182	86.8	94.5	88.8	53.8	22.0	109.3	103.0	63.5	26.3
IS-PR 469	73.8	80.3	72.3	52.5	19.0	108.5	99.0	72.8	26.3
PPG-PR 142	83.8	85.5	78.3	52.8	21.5	102.5	93.3	63.0	26.3
PIZZAZZ 2 GLR (PR 909)	85.8	84.8	77.3	37.5	22.8	98.5	90.0	42.0	26.3
PPG-PR 140	79.3	86.3	85.8	52.0	20.5	109.0	108.3	65.0	25.8
IS-PR 489	80.0	89.3	89.3	66.5	20.5	111.8	112.0	84.3	25.3
BAR LP 10972	80.5	83.0	90.3	63.8	19.8	103.5	112.5	79.8	25.0
PPG-PR 137	77.5	86.8	72.0	50.0	18.8	111.5	92.5	64.8	24.0
DOMINATOR (PST-2AG4)	53.0	53.5	50.5	24.0	11.8	105.0	97.0	47.3	23.8
APR 2445	91.3	86.8	81.3	61.3	21.5	95.3	89.3	67.3	23.3
SIDEWAYS (PSRX-S84)	83.0	88.8	86.0	63.8	19.8	107.3	104.3	75.0	23.3
GO-PR60	80.8	89.5	76.3	52.0	18.8	112.5	95.3	66.5	23.0
IS-PR 487	79.8	90.5	87.5	62.5	18.3	114.8	110.3	79.0	22.3
PPG-PR 133	85.3	88.0	75.0	49.0	18.8	103.8	87.0	56.5	21.3
ISG-30	60.3	70.0	62.0	27.0	14.5	119.5	108.3	45.0	20.3
PPG-PR 165	45.0	42.8	38.3	20.0	7.0	104.0	95.0	48.3	20.3
APR 2320	81.8	87.8	70.3	31.0	14.3	111.5	89.0	39.5	20.0
DLF LGD-3022	75.0	81.3	66.8	50.8	14.5	110.5	90.8	67.0	20.0
APR 2036	89.0	88.3	86.8	64.8	17.8	100.3	99.3	73.3	19.8
PRX-4GM1	75.0	66.0	55.5	34.8	15.5	87.5	72.5	44.3	19.0
PSRX-4CAGL	74.3	72.5	55.0	30.3	15.0	97.8	69.3	35.0	18.0
DLF LGD-3026	84.5	82.3	77.3	41.8	15.0	97.8	90.8	47.8	17.0

TABLE 14. (CONT'D) PERCENT COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/ AT KINGSTON (SALT TOLERANCE IN GREENHOUSE), RI 2/ 2011 DATA

NAME	PERCENT COVER FOR DIFFERENT SALT LEVELS (PPM)					ADJUSTED (RELATIVE) PERCENT COVER RATINGS FOR DIFFERENT SALT LEVELS (PPM)			
	5000 3/	7500	10000	12500	15000	7500 4/	10000	12500	15000
PPG-PR 128	84.0	87.8	69.8	51.3	13.8	106.0	82.8	58.3	17.0
RAD-PR55R	80.3	82.3	71.3	36.5	13.5	102.3	88.5	45.3	16.8
CS-PR66	87.0	94.5	82.3	63.0	13.8	108.8	95.0	72.8	16.5
PST-204D	66.8	63.3	65.3	25.0	8.8	98.5	103.8	43.3	16.5
RIO VISTA	91.0	95.5	87.5	71.5	14.5	105.3	96.8	78.8	16.5
SOX FAN (GM3)	85.3	87.5	65.8	32.8	13.5	104.0	77.0	39.3	15.8
KARMA (PICK 10401)	75.5	87.3	67.8	48.8	12.0	117.0	90.5	64.8	15.5
PPG-PR 136	91.5	90.5	93.0	71.8	14.3	98.5	101.5	78.3	15.3
CL 307	70.5	66.3	58.5	31.8	10.8	93.0	81.5	42.3	14.5
CS-20	67.5	64.5	60.5	24.8	10.3	97.5	88.8	35.3	14.3
IS-PR 491	86.0	89.5	78.3	36.5	10.8	103.5	90.5	42.5	13.0
IS-PR 488	67.0	65.8	51.5	20.5	8.0	97.8	77.0	30.0	11.8
LINN	73.0	78.5	65.0	57.0	10.5	116.0	91.3	77.3	11.8
CL 11601	60.8	70.5	55.5	24.8	5.5	129.5	95.0	41.8	11.0
LTP-PR 135	89.3	96.3	90.0	57.3	10.8	109.8	102.5	62.8	11.0
PST-2BNS	82.8	82.0	75.8	43.8	9.5	98.5	90.5	50.0	10.8
WICKED (SRX-4RHD)	84.3	86.8	73.5	53.8	8.3	103.3	87.5	64.3	10.0
ALLANTE	88.8	96.0	83.5	64.3	8.8	109.0	93.3	71.5	9.5
JR-192	76.3	91.8	83.3	51.5	5.3	122.8	112.0	70.8	9.0
IS-PR 463	68.5	66.3	55.5	26.8	6.5	101.5	84.3	36.8	8.8
PPG-PR 164	68.8	81.5	74.0	43.3	5.0	119.8	109.5	65.0	8.5
PST-2DR9	89.8	94.0	85.3	68.0	7.3	104.5	95.0	75.8	8.5
GO-DHS	77.0	63.8	59.8	22.8	6.3	83.8	77.5	28.8	7.5
FIESTA 4	78.0	83.0	81.0	48.3	5.5	107.5	104.3	63.5	7.3
PST-2MG7	92.3	91.5	86.0	51.5	6.5	99.0	93.5	56.3	7.3
2NJK	79.5	82.0	78.8	50.0	6.3	105.8	100.5	64.8	7.0
MACH I	54.3	60.3	49.5	24.5	4.5	119.8	90.8	39.3	7.0
SIENNA	76.8	83.5	55.5	26.5	5.0	111.3	72.0	34.0	6.5
PPG-PR 134	83.0	82.0	73.0	30.3	5.5	99.5	88.3	33.8	6.3
PALMER V	77.0	80.0	63.5	39.3	4.8	110.3	87.0	55.3	5.5
PPG-PR 143	82.3	92.5	76.8	43.3	4.5	113.0	92.3	51.5	5.5
BAR LP 10969	79.5	70.3	63.5	18.0	3.5	90.0	83.3	22.8	4.0
PST-2ACR	75.5	78.3	52.8	7.5	2.3	103.0	70.8	10.5	3.3
LTP-RAE	73.3	78.5	57.3	21.5	1.8	108.8	78.0	29.3	2.8
PST-2TQL	67.0	72.8	57.8	9.0	1.5	109.0	86.5	13.5	2.3
IS-PR 492	39.3	63.8	42.5	4.0	0.0	166.8	112.3	10.0	0.0
LSD VALUE	17.6	17.7	24.2	28.4	17.3	38.4	59.5	39.6	23.3
C.V. (%)	16.0	15.3	22.2	41.0	69.7	18.4	23.4	40.8	70.6

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

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

3/ THE 5000 PPM SALT LEVEL IS CONSIDERED THE HIGHEST LEVEL MOST PERENNIAL RYEGRASS WILL TOLERATE WITHOUT DAMAGE (THEREFORE OUR BASE LEVEL). SALT LEVELS WERE INCREASED BY 2500 PPM EVERY TWO WEEKS THEREAFTER AND PERCENT COVER RATINGS WERE GENERATED FROM DIGITAL IMAGES.

4/ THE ADJUSTED COVER RATINGS SHOW PERCENTAGE COVER IN EACH POT AS COMPARED TO THE 5000 PPM LEVEL (OUR BASE OR STARTING LEVEL).

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT ADELPHIA (GRAY LEAF SPOT STUDY), NJ 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT ESTABLISH-MENT	GRAY LEAF SPOT RATINGS SEP 2 51 DAYS	SEP 22 71 DAYS	QUALITY RATINGS SEP	OCT	NOV	MEAN
SR 4650 (PSRX-3701)	91.7	8.7	8.0	7.7	7.7	8.3	7.9
KARMA (PICK 10401)	84.0	8.0	8.3	7.7	7.7	8.0	7.8
CL 11601	77.3	8.0	7.0	6.7	7.7	8.3	7.6
PANGEA GLR (CL 11701)	85.7	8.0	7.0	6.3	8.0	8.3	7.6
CL 307	85.0	8.7	7.7	7.0	7.7	8.0	7.6
OCTANE	90.0	7.7	6.7	6.7	8.0	8.0	7.6
IS-PR 488	85.0	7.3	7.0	6.7	8.0	7.3	7.3
JR-178	83.3	8.0	7.3	7.3	7.3	7.3	7.3
EVOLUTION (S85)	78.3	7.3	7.0	7.3	7.3	7.0	7.2
IS-PR 489	86.7	7.7	7.3	6.7	7.3	7.3	7.1
PPG-PR 134	83.3	8.3	7.3	6.7	7.3	7.0	7.0
PPG-PR 164	90.0	8.3	7.3	6.7	7.3	7.0	7.0
PPG-PR 165	86.7	7.7	7.3	6.3	7.3	7.3	7.0
BONNEVILLE	79.0	7.7	7.0	6.3	6.7	7.3	6.8
PPG-PR 133	81.7	6.7	6.3	6.3	6.7	7.3	6.8
PIZZAZZ 2 GLR (PR 909)	84.7	8.0	6.7	6.0	7.0	7.3	6.8
PPG-PR 121	90.7	7.7	7.0	6.3	6.7	7.0	6.7
PPG-PR 136	75.0	6.0	5.3	5.7	7.3	7.0	6.7
PPG-PR 138	92.3	7.3	6.0	6.0	7.7	6.3	6.7
SIDEWAYS (PSRX-S84)	92.3	8.3	7.7	6.7	6.7	6.7	6.7
PPG-PR 143	90.0	7.3	6.3	6.0	7.0	6.7	6.6
IS-PR 469	82.3	6.7	5.0	5.7	7.0	6.7	6.4
PPG-PR 137	86.7	7.3	7.3	5.7	6.7	7.0	6.4
IS-PR 492	76.7	7.0	6.0	6.0	6.3	6.7	6.3
PPG-PR 142	86.7	7.3	6.0	6.0	6.3	6.7	6.3
LTP-PR 135	73.3	7.7	6.3	6.3	6.0	6.3	6.2
LTP-RAE	83.3	7.3	6.3	6.7	5.7	6.3	6.2
PPG-PR 140	85.0	6.3	6.3	5.7	6.3	6.3	6.1
RIO VISTA	75.0	7.0	6.0	5.3	6.0	7.0	6.1
IS-PR 409	78.3	5.7	4.3	5.7	6.0	6.3	6.0
PPG-PR 128	85.0	6.3	6.0	5.0	6.3	6.7	6.0
MANHATTAN 6 GLR (PST-2MAGS)	75.0	6.7	5.7	5.3	6.0	6.0	5.8
WICKED (SRX-4RHD)	86.7	5.7	4.7	5.0	6.3	6.0	5.8
IS-PR 463	73.3	6.0	5.0	4.3	6.0	6.7	5.7
IS-PR 487	86.7	5.7	6.0	5.3	6.0	5.7	5.7
CST	76.7	6.7	5.3	5.0	5.3	6.3	5.6
SOX FAN (GM3)	86.7	7.0	5.0	5.0	5.3	6.3	5.6
IS-PR 491	80.0	7.0	4.7	4.7	5.7	5.7	5.3
PSRX-4CAGL	85.0	7.0	5.3	4.7	5.0	6.3	5.3
PRX-4GM1	83.3	7.3	6.0	4.7	5.0	6.0	5.2
PST-2BNS	76.7	6.0	4.3	4.7	5.0	5.7	5.1
RINOVO	86.7	6.0	4.7	4.0	5.7	5.7	5.1
FIESTA 4	76.7	6.3	4.7	4.7	5.0	5.3	5.0
APR 2445	75.0	5.7	4.3	4.3	5.0	5.3	4.9
DLF LGD-3022	85.0	5.0	4.3	4.0	4.7	5.7	4.8
DLF LGD-3026	85.0	5.3	4.3	4.0	5.0	5.3	4.8
PALMER V	86.7	5.3	4.3	3.7	4.7	5.3	4.6

TABLE 15. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS (CONT'D) AT ADELPHIA (GRAY LEAF SPOT STUDY), NJ 1/

2011 DATA

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

NAME	PERCENT ESTABLISH-MENT	GRAY LEAF SPOT RATINGS SEP 2 51 DAYS	SEP 22 71 DAYS	QUALITY RATINGS SEP	OCT	NOV	MEAN
PST-2MG7	68.3	5.0	3.7	4.0	4.7	5.0	4.6
2NJK	83.3	5.3	3.7	4.0	4.3	5.0	4.4
PST-2NKM	83.3	6.0	4.0	4.0	4.3	4.7	4.3
APR 2036	78.3	5.7	4.0	3.3	4.3	5.0	4.2
HAVEN (APR 2038)	86.7	5.0	4.3	3.7	4.7	4.3	4.2
SRX-4MSH	80.0	4.3	4.0	3.3	3.7	4.3	3.8
PST-2ACR	75.0	4.7	3.0	2.7	3.7	4.7	3.7
UNO	76.7	4.0	3.0	3.0	3.7	4.0	3.6
PST-2DR9	71.7	4.0	2.7	3.3	3.3	3.7	3.4
PST-2K9	73.3	5.0	3.7	3.0	3.3	4.0	3.4
PICK 4DFHM	83.3	4.0	3.3	2.7	3.3	4.0	3.3
DOMINATOR (PST-2AG4)	68.3	4.0	3.0	3.0	3.0	3.0	3.0
IS-PR 479	78.3	3.7	2.3	2.0	2.7	3.7	2.8
PLAYOFF 2 (P02)	80.0	4.0	2.7	2.3	2.7	3.0	2.7
CS-PR66	71.7	3.7	2.3	2.0	2.7	3.0	2.6
GO-PR60	83.3	3.3	2.0	1.7	3.0	3.0	2.6
ISG-36	75.0	4.0	2.3	2.3	2.3	3.0	2.6
PST-204D	85.0	4.0	1.7	2.0	2.7	3.0	2.6
A-35	66.7	3.7	1.7	1.7	2.7	3.0	2.4
BAR LP 10970	81.7	3.0	2.0	2.0	2.7	2.7	2.4
RAD-PR55R	75.0	3.7	2.3	2.3	2.3	2.7	2.4
BAR LP 10969	81.7	3.0	1.7	1.7	2.0	3.0	2.2
ISG-31	76.7	3.3	2.0	2.0	2.0	2.7	2.2
PST-2TQL	75.0	3.7	1.7	2.0	2.0	2.7	2.2
CS-20	65.0	3.7	1.7	1.7	2.0	2.7	2.1
ISG-30	71.7	3.0	1.0	1.3	2.3	2.7	2.1
SIENNA	76.7	3.0	2.3	2.0	2.0	2.3	2.1
ALLANTE	85.0	2.7	1.7	1.7	1.7	2.0	1.8
GO-G37	66.7	3.3	1.3	1.7	1.7	2.0	1.8
BAR LP 10972	66.7	2.7	1.3	1.7	1.3	2.0	1.7
INSIGHT	85.0	2.7	2.0	1.3	1.7	2.0	1.7
MACH I	85.7	3.0	1.3	1.3	1.3	2.3	1.7
DLF LGT 4182	65.0	2.7	1.3	1.3	1.7	1.7	1.6
BRIGHTSTAR SLT	73.3	3.0	1.7	1.3	1.0	2.0	1.4
GO-DHS	73.3	2.7	1.0	1.0	1.7	1.3	1.3
RAD-PR62	63.3	1.7	1.0	1.0	1.0	2.0	1.3
BAR LP 7608	71.7	2.0	1.3	1.3	1.0	1.0	1.1
JR-192	68.3	2.0	1.0	1.0	1.0	1.3	1.1
PINNACLE	70.0	2.3	1.0	1.0	1.0	1.3	1.1
APR 2320	71.7	1.3	1.0	1.0	1.0	1.0	1.0
LINN	65.0	1.3	1.0	1.0	1.0	1.0	1.0
LSD VALUE	28.6	1.2	1.1	1.1	1.3	1.2	1.0
C.V. (%)	13.3	15.7	17.6	19.1	18.9	16.9	15.1

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

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

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	PERCENT COVER OF BERMUDAGRASS IN FALL				PERCENT COVER OF OVERSEEDING GRASS				QUALITY
NAME	10/15/10	10/25/10	11/5/10	11/15/10	10/15/10	10/25/10	11/5/10	11/15/10	10/15/10
LTP-PR 135	99	99	85	45	18.3	46.7	73.3	99.0	3.0
OCTANE	99	99	85	45	15.0	28.3	70.0	99.0	3.3
SOX FAN (GM3)	99	99	85	45	8.3	28.3	66.7	96.3	2.3
BONNEVILLE	99	99	85	45	21.7	35.0	75.0	97.7	4.0
MACH I	99	99	85	45	15.0	38.3	81.7	99.0	3.0
PICK 4DFHM	99	99	85	45	16.7	35.0	71.7	99.0	3.0
PPG-PR 121	99	99	85	45	18.3	40.0	68.3	99.0	3.0
PPG-PR 133	99	99	85	45	15.0	33.3	81.7	96.3	3.0
PPG-PR 134	99	99	85	45	21.7	43.3	76.7	97.7	3.0
CL 307	99	99	85	45	21.7	41.7	76.7	99.0	3.7
PALMER V	99	99	85	45	15.0	31.7	73.3	99.0	2.7
BAR LP 10972	99	99	85	45	8.3	25.0	66.7	99.0	2.3
PST-2K9	99	99	85	45	13.3	31.7	63.3	99.0	3.0
RIO VISTA	99	99	85	45	13.3	33.3	61.7	99.0	3.0
SR 4650 (PSRX-3701)	99	99	85	45	21.7	35.0	73.3	97.7	2.0
SRX-4MSH	99	99	85	45	15.0	25.0	63.3	99.0	3.0
BAR LP 10969	99	99	85	45	16.7	35.0	76.7	99.0	3.0
IS-PR 489	99	99	85	45	20.0	40.0	73.3	99.0	3.0
JR-178	99	99	85	45	18.3	35.0	76.7	99.0	3.0
PINNACLE	99	99	85	45	15.0	31.7	76.7	99.0	2.0
PPG-PR 136	99	99	85	45	18.3	41.7	68.3	99.0	3.0
PPG-PR 137	99	99	85	45	15.0	28.3	58.3	97.7	2.0
PPG-PR 138	99	99	85	45	16.7	31.7	70.0	97.7	3.0
PPG-PR 143	99	99	85	45	21.7	40.0	71.7	99.0	3.0
PPG-PR 164	99	99	85	45	18.3	31.7	63.3	97.7	3.0
PRX-4GM1	99	99	85	45	21.7	30.0	66.7	99.0	3.3
PST-2ACR	99	99	85	45	5.0	23.3	48.3	97.7	2.0
PST-2NKM	99	99	85	45	11.7	30.0	65.0	97.7	2.3
RINOVO	99	99	85	45	13.3	25.0	71.7	99.0	3.0
EVOLUTION (S85)	99	99	85	45	11.7	30.0	58.3	97.7	4.0
ALLANTE	99	99	85	45	11.7	30.0	68.3	97.7	3.0
HAVEN (APR 2038)	99	99	85	45	20.0	40.0	73.3	99.0	3.0
INSIGHT	99	99	85	45	18.3	43.3	66.7	96.3	3.7
ISG-31	99	99	85	45	21.7	35.0	78.3	99.0	3.3
PPG-PR 140	99	99	85	45	13.3	28.3	70.0	97.7	3.0
MANHATTAN 6 GLR (PST-2MAGS)	99	99	85	45	18.3	36.7	75.0	99.0	3.3
PST-2TQL	99	99	85	45	16.7	28.3	70.0	99.0	3.0
UNO	99	99	85	45	11.7	20.0	70.0	99.0	2.3
BAR LP 7608	99	99	85	45	13.3	35.0	73.3	97.7	2.3
CS-PR66	99	99	85	45	6.7	21.7	73.3	99.0	2.3
CST	99	99	85	45	16.7	38.3	81.7	99.0	2.3
DLF LGD-3022	99	99	85	45	10.0	21.7	65.0	93.3	2.0
FIESTA 4	99	99	85	45	11.7	26.7	61.7	97.7	2.7
GO-G37	99	99	85	45	13.3	25.0	68.3	99.0	3.0
KARMA (PICK 10401)	99	99	85	45	23.3	36.7	78.3	97.7	3.0
PPG-PR 128	99	99	85	45	15.0	31.7	76.7	99.0	2.7
PPG-PR 142	99	99	85	45	15.0	31.7	76.7	99.0	3.0

TABLE 16. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	PERCENT COVER OF BERMUDAGRASS IN FALL				PERCENT COVER OF OVERSEEDING GRASS				QUALITY
NAME	10/15/10	10/25/10	11/5/10	11/15/10	10/15/10	10/25/10	11/5/10	11/15/10	10/15/10
PST-204D	99	99	85	45	11.7	25.0	71.7	99.0	2.7
SIENNA	99	99	85	45	15.0	28.3	58.3	96.3	3.0
2NJK	99	99	85	45	10.0	23.3	75.0	94.7	2.3
APR 2036	99	99	85	45	11.7	18.3	58.3	93.0	2.3
APR 2445	99	99	85	45	10.0	23.3	75.0	97.7	2.0
BRIGHTSTAR SLT	99	99	85	45	15.0	26.7	73.3	99.0	3.0
CS-20	99	99	85	45	16.7	30.0	73.3	99.0	3.0
DOMINATOR (PST-2AG4)	99	99	85	45	5.0	21.7	61.7	99.0	2.0
GO-DHS	99	99	85	45	13.3	28.3	63.3	99.0	3.0
IS-PR 409	99	99	85	45	11.7	26.7	65.0	99.0	2.0
IS-PR 487	99	99	85	45	11.7	23.3	76.7	99.0	2.7
IS-PR 488	99	99	85	45	6.7	25.0	63.3	99.0	2.0
IS-PR 492	99	99	85	45	11.7	26.7	75.0	97.7	3.0
PLAYOFF 2 (P02)	99	99	85	45	15.0	35.0	71.7	93.3	3.7
PIZZAZZ 2 GLR (PR 909)	99	99	85	45	10.0	21.7	61.7	99.0	2.0
PST-2MG7	99	99	85	45	10.0	30.0	66.7	97.7	2.0
RAD-PR55R	99	99	85	45	5.0	20.0	60.0	91.7	1.7
SIDEWAYS (PSRX-S84)	99	99	85	45	18.3	33.3	71.7	99.0	3.7
APR 2320	99	99	85	45	5.0	13.3	58.3	91.7	2.0
IS-PR 469	99	99	85	45	11.7	30.0	73.3	99.0	2.7
IS-PR 491	99	99	85	45	16.7	25.0	73.3	99.0	3.0
PANGEA GLR (CL 11701)	99	99	85	45	16.7	30.0	78.3	97.7	2.3
PPG-PR 165	99	99	85	45	13.3	25.0	53.3	99.0	2.7
GO-PR60	99	99	85	45	20.0	41.7	68.3	99.0	3.0
ISG-36	99	99	85	45	10.0	25.0	76.7	96.3	3.0
LTP-RAE	99	99	85	45	11.7	21.7	68.3	99.0	3.3
PSRX-4CAGL	99	99	85	45	18.3	36.7	70.0	99.0	3.3
PST-2DR9	99	99	85	45	15.0	20.0	73.3	99.0	3.0
RAD-PR62	99	99	85	45	6.7	23.3	61.7	96.3	2.0
WICKED (SRX-4RHD)	99	99	85	45	11.7	26.7	75.0	99.0	2.3
A-35	99	99	85	45	10.0	26.7	66.7	99.0	2.7
BAR LP 10970	99	99	85	45	8.3	23.3	76.7	99.0	2.0
CL 11601	99	99	85	45	18.3	33.3	68.3	99.0	2.7
DLF LGT 4182	99	99	85	45	8.3	21.7	61.7	99.0	2.0
IS-PR 463	99	99	85	45	6.7	25.0	65.0	94.7	2.0
JR-192	99	99	85	45	10.0	30.0	65.0	99.0	3.0
DLF LGD-3026	99	99	85	45	13.3	25.0	65.0	99.0	2.7
ISG-30	99	99	85	45	15.0	28.3	71.7	99.0	2.7
PST-2BNS	99	99	85	45	5.0	18.3	51.7	99.0	2.0
IS-PR 479	99	99	85	45	11.7	28.3	73.3	99.0	2.0
LINN	99	99	85	45	11.7	21.7	68.3	97.7	2.0
LSD VALUE	0	0	0	0	6.7	8.5	4.9	2.8	0.5
C.V. (%)	0	0	0	0	29.2	18.0	4.8	1.7	13.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 16. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/ 2011 DATA TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	COLOR RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD					QUALITY RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD				
NAME	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11
LTP-PR 135	7.3	8.0	7.3	7.7	7.0	8.0	8.3	8.3	8.3	8.3
OCTANE	7.0	6.3	7.0	7.0	6.3	8.0	8.0	8.3	8.0	8.0
SOX FAN (GM3)	7.7	7.0	7.3	7.0	7.3	8.0	8.0	8.0	8.0	8.0
BONNEVILLE	6.3	6.7	6.7	7.0	6.3	7.0	7.7	8.0	7.7	7.7
MACH I	6.3	7.7	7.0	7.7	7.0	8.0	8.0	8.0	8.0	8.0
PICK 4DFHM	7.0	6.7	7.0	6.7	6.3	8.0	8.0	8.0	8.0	7.7
PPG-PR 121	8.0	8.0	6.7	7.3	8.0	8.0	8.0	7.7	7.7	7.7
PPG-PR 133	6.7	7.0	7.7	7.0	6.7	7.0	8.0	8.0	8.0	8.0
PPG-PR 134	8.0	7.7	8.0	7.7	7.3	8.0	8.0	7.7	8.0	8.0
CL 307	7.0	7.7	7.7	7.0	6.3	7.0	7.3	7.7	7.7	7.7
PALMER V	6.7	7.0	7.0	7.3	7.0	8.0	8.0	8.0	8.0	7.7
BAR LP 10972	7.3	8.0	6.7	6.7	6.3	8.0	8.0	8.0	8.0	8.0
PST-2K9	7.0	7.0	6.7	7.0	7.0	8.0	7.7	7.7	8.0	8.0
RIO VISTA	6.3	7.0	7.0	7.0	7.0	7.0	7.7	7.7	7.7	7.0
SR 4650 (PSRX-3701)	7.7	8.0	7.0	7.3	7.7	8.0	8.0	7.7	8.0	7.3
SRX-4MSH	7.0	7.0	6.7	7.0	7.0	7.3	7.7	8.0	8.0	8.0
BAR LP 10969	6.3	6.7	7.0	6.7	6.3	7.0	8.0	7.7	8.0	7.3
IS-PR 489	6.3	8.0	7.3	6.7	7.0	7.0	8.0	7.7	7.7	7.7
JR-178	7.0	7.0	7.0	7.0	6.7	7.7	7.3	8.0	7.3	7.7
PINNACLE	6.0	7.0	7.3	6.3	6.3	7.0	7.3	7.7	8.0	7.0
PPG-PR 136	7.7	7.7	7.0	6.7	6.7	8.0	7.7	7.7	7.3	7.3
PPG-PR 137	7.3	8.0	7.0	7.0	6.7	8.0	8.0	8.0	8.0	8.0
PPG-PR 138	7.0	7.0	7.0	6.3	7.0	7.7	8.0	7.7	7.3	7.3
PPG-PR 143	6.7	7.0	7.0	7.0	6.3	6.7	7.7	8.0	8.0	8.3
PPG-PR 164	6.7	6.7	6.7	6.7	7.0	6.7	7.7	7.7	7.7	8.0
PRX-4GM1	7.3	6.3	6.7	7.3	7.3	7.7	7.3	7.3	7.3	7.0
PST-2ACR	7.0	6.7	6.3	6.3	7.0	8.0	7.7	7.3	7.3	7.7
PST-2NKM	7.0	8.0	7.0	7.0	7.0	8.0	8.0	8.0	8.0	7.3
RINOVO	7.0	7.3	7.0	7.3	7.0	6.3	7.0	7.0	7.7	8.0
EVOLUTION (S85)	7.3	8.0	7.0	6.7	7.0	8.0	8.0	7.7	7.7	7.3
ALLANTE	6.3	6.7	7.0	7.3	6.7	6.7	7.0	7.3	7.3	7.3
HAVEN (APR 2038)	7.0	6.7	7.0	7.3	7.0	7.0	7.7	8.0	8.0	7.7
INSIGHT	6.0	5.7	6.3	7.0	6.7	7.0	7.0	7.3	7.3	7.7
ISG-31	7.3	7.0	6.7	6.7	7.0	8.3	7.3	7.3	7.3	7.3
PPG-PR 140	6.3	6.7	7.0	7.0	6.0	7.0	7.3	8.0	8.0	8.0
MANHATTAN 6 GLR (PST-2MAGS)	6.7	6.3	6.3	6.7	7.3	7.7	7.3	7.3	7.0	7.3
PST-2TQL	6.0	6.7	6.7	6.7	6.3	6.7	7.7	8.0	8.0	7.7
UNO	6.3	6.7	7.0	7.0	6.0	7.3	7.0	7.7	8.0	8.0
BAR LP 7608	6.7	8.0	7.0	7.0	6.7	7.7	8.0	7.7	7.3	7.0
CS-PR66	7.0	7.0	7.0	7.7	7.3	8.0	8.3	7.7	7.3	7.3
CST	7.7	7.3	6.7	7.3	7.3	8.0	7.7	7.7	7.7	7.7
DLF LGD-3022	6.3	7.0	7.0	7.0	6.7	7.0	7.0	7.3	7.7	8.0
FIESTA 4	7.0	7.7	7.3	7.0	6.7	8.0	8.0	8.0	7.3	7.3
GO-G37	7.3	8.0	8.0	7.0	7.0	8.0	8.0	7.3	7.7	7.0
KARMA (PICK 10401)	7.7	7.7	7.3	7.3	7.3	7.7	7.3	7.0	7.0	7.0
PPG-PR 128	7.3	7.3	7.0	7.0	7.0	7.0	7.7	7.7	7.3	7.3
PPG-PR 142	5.7	6.0	5.7	6.3	6.7	6.7	7.7	7.7	7.7	7.7

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	COLOR RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD					QUALITY RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD				
NAME	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11
PST-204D	7.3	7.3	6.7	7.0	7.0	7.7	7.0	7.3	7.0	7.3
SIENNA	7.0	7.0	6.3	6.3	6.0	7.0	7.3	7.3	7.3	7.3
2NJK	6.7	7.0	7.3	7.0	6.3	7.7	7.7	7.7	7.7	7.7
APR 2036	7.0	7.0	7.0	6.7	6.3	6.7	7.7	7.3	7.3	7.0
APR 2445	6.7	6.7	7.7	6.3	7.0	7.7	7.7	7.7	7.3	7.7
BRIGHTSTAR SLT	6.7	7.0	7.0	6.7	6.3	6.7	7.0	7.0	7.3	7.3
CS-20	7.7	7.0	7.7	7.3	7.7	8.0	7.3	7.0	7.3	7.0
DOMINATOR (PST-2AG4)	7.0	7.0	6.3	7.3	6.7	6.7	7.0	7.0	7.3	7.3
GO-DHS	8.0	7.0	7.0	7.7	8.0	8.0	7.0	7.0	7.3	7.0
IS-PR 409	6.0	6.7	6.7	7.0	7.0	6.7	7.3	7.7	8.0	7.7
IS-PR 487	7.3	7.7	6.3	7.0	7.3	7.3	7.7	7.7	7.3	7.0
IS-PR 488	6.7	7.7	7.0	7.0	7.0	7.3	7.7	8.0	7.0	7.7
IS-PR 492	7.0	7.7	6.7	7.0	7.0	7.0	7.3	7.0	7.3	7.3
PLAYOFF 2 (P02)	7.0	6.7	6.3	6.7	7.0	7.0	7.3	7.3	7.0	7.3
PIZZAZZ 2 GLR (PR 909)	5.7	6.0	6.3	6.7	6.7	6.0	6.7	7.3	7.7	7.7
PST-2MG7	6.0	7.0	7.3	7.0	6.3	7.0	7.0	7.3	7.0	7.3
RAD-PR55R	6.0	7.0	7.0	7.0	6.3	7.0	7.0	7.3	7.7	7.3
SIDEWAYS (PSRX-S84)	7.0	6.7	7.0	6.7	7.0	7.0	7.0	7.7	7.7	7.7
APR 2320	6.3	6.7	7.7	7.3	7.0	6.0	7.0	7.7	7.7	7.7
IS-PR 469	5.0	7.0	6.7	7.0	6.7	5.7	7.0	7.3	7.3	7.3
IS-PR 491	6.7	8.0	7.3	7.0	6.7	7.0	7.7	7.0	7.7	7.0
PANGEA GLR (CL 11701)	6.3	5.7	6.0	6.3	7.0	7.0	7.0	7.0	6.7	7.0
PPG-PR 165	7.0	7.0	7.0	6.7	7.0	7.0	7.3	7.3	7.3	7.3
GO-PR60	7.3	6.7	6.7	7.0	7.0	8.0	7.0	7.0	6.7	6.7
ISG-36	7.0	6.7	6.3	7.0	7.3	8.0	7.7	7.3	7.0	6.7
LTP-RAE	7.0	7.3	7.3	7.0	7.0	7.3	7.7	7.0	6.7	6.3
PSRX-4CAGL	6.3	6.7	7.0	6.7	6.7	6.7	7.0	7.3	6.7	6.7
PST-2DR9	6.7	7.3	6.7	6.7	6.7	7.0	7.0	6.7	6.7	6.7
RAD-PR62	6.3	7.0	7.0	7.3	7.3	6.7	7.0	7.3	7.7	7.3
WICKED (SRX-4RHD)	6.7	7.0	6.7	7.0	6.7	7.0	7.0	7.3	7.3	7.3
A-35	7.3	6.7	6.7	7.0	7.0	8.0	7.3	7.0	7.0	6.7
BAR LP 10970	6.0	6.7	6.7	6.7	6.3	6.7	7.0	7.0	7.3	7.3
CL 11601	6.0	6.3	6.3	6.0	6.3	6.0	7.0	7.3	7.0	7.0
DLF LGT 4182	7.0	7.3	6.7	7.0	6.7	7.7	7.0	7.3	7.3	7.3
IS-PR 463	6.3	7.0	6.3	6.7	6.0	7.0	7.0	7.0	7.0	7.3
JR-192	7.0	7.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	6.7
DLF LGD-3026	7.0	7.0	6.7	7.0	5.7	7.7	6.7	7.0	7.0	6.7
ISG-30	6.7	7.3	6.3	6.7	6.3	7.3	7.3	7.0	7.0	6.7
PST-2BNS	6.3	7.0	7.0	6.0	6.3	7.0	7.0	7.0	6.3	6.3
IS-PR 479	7.0	6.7	6.3	6.7	6.7	7.0	6.7	6.3	6.3	7.0
LINN	5.0	5.0	4.7	4.7	4.3	6.0	6.0	5.7	5.7	6.0
LSD VALUE	0.7	0.7	0.7	0.8	0.7	0.5	0.7	0.8	0.8	1.1
C.V. (%)	6.6	6.2	6.4	6.3	6.4	4.7	5.3	6.1	6.1	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.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 16. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	DENSITY RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD					UNIFORMITY RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD				
	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11
LTP-PR 135	8.0	7.3	7.3	7.7	7.7	8.0	7.7	7.7	7.3	7.0
OCTANE	7.7	8.0	8.0	8.3	8.0	8.0	8.0	7.0	7.3	7.7
SOX FAN (GM3)	7.0	7.7	8.0	7.7	7.3	7.7	7.3	6.7	7.0	7.0
BONNEVILLE	7.7	8.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	8.0
MACH I	8.0	8.0	8.0	8.3	8.7	8.0	7.7	7.0	7.3	7.0
PICK 4DFHM	7.7	8.0	8.0	8.3	7.7	8.0	8.0	7.0	7.3	8.0
PPG-PR 121	7.7	7.7	8.0	7.3	7.7	8.0	8.0	7.7	7.7	7.0
PPG-PR 133	8.0	8.0	7.7	8.3	8.0	8.0	7.3	8.0	7.7	7.0
PPG-PR 134	8.0	8.0	8.0	8.0	8.0	8.0	7.7	7.0	7.0	7.0
CL 307	7.7	7.3	7.3	8.3	7.7	7.0	7.3	7.7	7.7	7.0
PALMER V	8.0	8.0	7.7	8.3	7.3	8.0	8.0	7.0	7.0	7.3
BAR LP 10972	8.0	7.7	7.0	8.0	8.0	8.0	8.0	7.3	7.3	7.3
PST-2K9	7.7	7.7	7.7	8.0	7.3	8.0	8.0	7.0	7.0	7.0
RIO VISTA	7.0	7.7	8.0	8.0	7.7	7.7	8.0	7.3	7.7	7.7
SR 4650 (PSRX-3701)	8.0	8.0	7.7	8.0	7.7	7.0	7.0	7.0	7.3	7.3
SRX-4MSH	7.7	7.7	7.7	8.0	7.0	7.7	8.0	7.0	7.0	7.0
BAR LP 10969	8.0	8.0	7.3	8.0	8.0	8.0	7.7	7.0	7.3	7.0
IS-PR 489	7.7	8.0	7.0	8.0	7.3	8.0	8.0	7.3	7.3	7.3
JR-178	7.3	7.3	7.3	7.3	7.3	7.7	7.3	8.0	7.3	7.0
PINNACLE	8.0	7.0	7.7	7.3	7.3	8.0	8.0	7.3	7.0	7.3
PPG-PR 136	7.3	7.3	8.0	8.0	7.3	7.0	7.0	7.7	7.0	6.7
PPG-PR 137	8.0	8.0	8.0	8.3	7.7	7.0	8.0	7.3	7.3	7.0
PPG-PR 138	7.0	8.0	7.7	7.3	7.3	8.0	7.3	7.0	7.3	7.0
PPG-PR 143	8.0	8.0	8.0	8.0	8.0	8.0	7.0	7.0	7.0	7.7
PPG-PR 164	7.7	8.0	8.0	8.3	8.3	8.0	7.3	7.7	7.7	7.3
PRX-4GM1	8.0	8.0	8.0	7.7	7.0	7.3	7.3	7.0	7.3	7.0
PST-2ACR	7.7	7.3	7.0	7.3	7.3	7.3	7.0	7.0	7.0	7.0
PST-2NKM	7.7	8.0	8.0	8.0	8.0	7.0	7.3	7.3	7.0	7.0
RINOVO	8.0	8.0	7.7	7.0	8.0	7.0	7.0	7.7	7.3	7.0
EVOLUTION (S85)	8.0	7.3	7.3	7.3	8.0	8.0	8.0	7.3	7.3	7.0
ALLANTE	7.3	7.3	7.0	7.7	7.7	7.0	7.0	7.3	7.3	7.0
HAVEN (APR 2038)	8.0	8.0	7.3	8.0	8.0	8.0	8.0	7.3	7.0	7.3
INSIGHT	7.7	7.7	7.7	8.0	7.3	7.0	7.7	7.3	7.3	7.0
ISG-31	7.3	7.7	7.0	7.7	7.7	8.0	8.0	7.3	7.0	7.7
PPG-PR 140	8.0	7.0	7.7	7.3	7.3	7.0	7.0	7.7	7.7	7.3
MANHATTAN 6 GLR (PST-2MAGS)	7.7	7.0	7.3	7.3	7.3	8.0	7.7	7.3	7.0	7.0
PST-2TQL	7.7	8.0	7.7	7.7	7.3	7.7	7.7	7.3	7.3	7.7
UNO	7.7	8.0	7.7	7.3	8.0	7.0	7.0	7.0	7.0	7.0
BAR LP 7608	8.0	7.7	7.3	7.7	7.7	7.0	7.0	7.3	7.0	7.0
CS-PR66	7.7	8.0	7.7	8.0	8.0	8.0	7.7	7.0	7.3	7.0
CST	7.7	7.3	7.7	7.7	7.7	7.3	8.0	8.0	7.0	7.0
DLF LGD-3022	8.0	8.0	8.0	9.0	8.3	8.0	8.0	8.0	8.0	8.0
FIESTA 4	8.0	7.7	7.7	8.0	7.3	8.0	7.7	8.0	7.3	7.3
GO-G37	7.7	8.0	7.0	8.0	7.7	7.3	7.7	7.0	7.0	7.0
KARMA (PICK 10401)	8.0	8.0	8.0	8.0	8.3	7.3	7.0	7.0	7.0	7.0
PPG-PR 128	7.0	7.3	8.0	8.0	7.3	8.0	7.7	7.3	7.0	7.3
PPG-PR 142	7.0	7.3	7.3	7.7	7.3	7.0	6.7	7.3	7.3	7.3

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	DENSITY RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD					UNIFORMITY RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD				
NAME	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11	12/2/10	1/5/11	2/7/11	3/4/11	4/4/11
PST-204D	7.3	7.7	7.0	7.7	7.3	7.0	7.0	7.0	7.0	7.0
SIENNA	7.7	7.7	8.0	7.7	7.3	8.0	7.0	7.3	7.0	7.3
2NJK	7.0	7.0	7.3	8.0	7.3	8.0	8.0	7.7	7.3	7.3
APR 2036	7.3	7.3	7.3	7.0	7.3	7.3	7.0	8.0	8.0	7.3
APR 2445	8.0	7.7	7.3	7.7	7.7	7.0	7.3	7.7	7.3	7.0
BRIGHTSTAR SLT	7.7	6.7	7.0	6.7	7.3	7.3	7.0	7.0	7.0	7.0
CS-20	7.3	7.3	7.3	7.3	7.3	7.7	7.0	7.3	7.0	7.0
DOMINATOR (PST-2AG4)	7.0	7.3	8.0	8.0	7.7	8.0	8.0	7.0	7.0	7.3
GO-DHS	7.3	7.0	7.0	7.3	7.3	7.7	7.0	7.0	7.3	7.0
IS-PR 409	7.7	7.7	7.3	7.7	7.3	7.0	7.0	7.3	7.0	7.0
IS-PR 487	7.0	7.7	8.0	7.7	7.0	7.3	7.0	7.0	7.3	7.0
IS-PR 488	7.3	7.0	7.3	7.7	7.3	7.0	7.0	7.0	7.0	7.0
IS-PR 492	7.7	7.7	7.0	7.3	7.0	7.0	7.3	7.0	7.0	7.0
PLAYOFF 2 (P02)	7.0	7.7	7.3	8.3	8.0	7.0	7.0	8.0	7.0	7.0
PIZZAZZ 2 GLR (PR 909)	7.0	7.7	8.0	6.3	7.0	8.0	8.0	8.0	7.7	7.3
PST-2MG7	7.3	8.0	7.7	8.0	8.0	7.0	7.0	8.0	7.3	7.3
RAD-PR55R	7.3	7.3	8.0	7.7	7.0	6.0	6.7	7.0	7.0	7.3
SIDEWAYS (PSRX-S84)	7.7	7.7	8.0	8.0	8.3	7.0	7.0	7.0	7.0	7.0
APR 2320	7.7	8.0	8.0	8.0	8.3	6.3	7.3	7.3	7.3	7.0
IS-PR 469	7.7	7.7	7.7	8.3	7.7	7.0	7.3	7.7	7.0	7.0
IS-PR 491	8.0	8.0	8.0	8.0	8.0	7.0	7.3	7.3	7.0	7.3
PANGEA GLR (CL 11701)	7.0	7.3	7.0	7.0	7.0	7.0	7.3	7.3	7.0	7.3
PPG-PR 165	7.7	8.0	7.7	7.7	7.7	7.3	7.0	7.0	7.0	7.7
GO-PR60	6.7	7.3	7.3	7.0	7.0	7.3	7.0	7.3	7.3	7.3
ISG-36	7.0	7.0	7.0	7.3	7.0	6.7	7.0	7.0	7.3	7.3
LTP-RAE	6.7	7.0	7.0	7.0	7.7	7.0	7.0	7.7	7.0	7.3
PSRX-4CAGL	6.7	7.0	7.0	7.3	7.0	7.3	7.7	7.0	7.3	7.0
PST-2DR9	7.0	7.3	7.0	7.0	7.3	6.7	6.7	6.7	6.7	6.7
RAD-PR62	7.3	7.3	7.0	7.3	7.3	6.0	6.7	7.0	7.0	7.0
WICKED (SRX-4RHD)	7.7	7.7	8.0	7.7	7.7	7.7	8.0	7.3	7.3	7.3
A-35	7.3	7.3	7.3	7.0	7.3	7.0	7.3	7.3	7.3	7.3
BAR LP 10970	7.3	7.0	7.0	7.7	7.3	8.0	7.7	8.0	7.0	7.7
CL 11601	7.0	7.0	7.3	7.0	7.3	7.3	7.3	7.3	7.0	7.0
DLF LGT 4182	7.7	7.3	8.0	7.3	7.3	8.0	8.0	7.3	7.3	7.3
IS-PR 463	7.7	7.3	7.3	7.7	7.7	7.0	7.0	7.7	7.0	7.0
JR-192	6.7	7.0	8.0	7.3	7.0	7.0	7.3	7.0	7.0	7.0
DLF LGD-3026	8.0	8.0	7.7	8.0	8.0	7.7	8.0	8.0	7.0	7.0
ISG-30	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.3	7.0	7.3
PST-2BNS	8.0	7.0	7.3	7.3	7.3	6.3	7.0	7.3	7.3	6.7
IS-PR 479	7.0	7.0	7.0	7.0	7.0	7.3	7.0	7.3	7.0	7.3
LINN	7.0	7.0	7.3	6.3	7.0	7.0	7.3	7.0	7.0	7.3
LSD VALUE	0.8	0.9	0.8	0.8	0.9	0.5	0.6	0.8	1.0	1.0
C.V. (%)	6.0	6.0	5.8	6.1	6.3	4.7	5.1	5.6	5.3	5.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 16. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	COLOR OF OVERALL PLOT IN SPRING/SUMMER TRANSITION					QUALITY OF OVERALL PLOT IN SPRING/SUMMER TRANSITION				
	4/14/11	4/27/11	5/9/11	5/23/11	6/1/11	4/14/11	4/27/11	5/9/11	5/23/11	6/1/11
LTP-PR 135	7.0	7.3	7.7	6.7	6.7	8.3	7.3	7.0	5.7	4.0
OCTANE	7.0	7.0	7.0	6.0	6.0	8.3	7.3	7.3	5.3	4.7
SOX FAN (GM3)	7.7	8.0	7.3	7.0	6.0	9.0	7.3	7.0	5.7	4.7
BONNEVILLE	7.0	7.0	6.7	6.7	6.0	7.7	7.7	7.7	5.7	4.3
MACH I	8.0	8.0	7.0	6.3	6.7	8.7	8.0	6.3	5.0	3.3
PICK 4DFHM	7.0	7.0	6.7	6.7	6.3	8.0	7.3	7.0	5.3	4.3
PPG-PR 121	6.7	7.0	7.3	7.0	7.0	7.7	7.3	6.7	5.3	5.3
PPG-PR 133	7.3	8.0	8.0	5.7	5.7	8.3	7.0	7.0	5.3	5.0
PPG-PR 134	7.0	7.7	8.0	7.0	6.7	7.7	7.0	7.0	5.7	4.3
CL 307	7.7	8.0	7.0	5.7	6.0	7.7	7.7	6.7	5.3	5.0
PALMER V	7.7	8.0	7.0	6.3	6.0	8.3	7.0	7.0	5.0	4.0
BAR LP 10972	8.0	8.0	8.0	6.7	6.3	8.0	7.3	6.7	4.7	4.0
PST-2K9	7.0	7.0	7.0	6.3	6.7	8.0	7.0	8.0	4.3	3.3
RIO VISTA	6.3	6.7	6.7	6.7	6.3	7.3	7.3	7.0	5.7	5.0
SR 4650 (PSRX-3701)	7.3	7.0	7.0	7.0	7.0	8.3	7.0	7.0	5.0	4.0
SRX-4MSH	7.3	7.7	6.7	7.0	6.0	8.0	7.3	7.0	4.7	4.0
BAR LP 10969	7.7	8.0	7.0	6.0	6.3	8.0	7.3	7.0	4.7	3.0
IS-PR 489	6.7	7.0	7.0	7.0	6.7	8.0	7.0	6.7	5.0	4.3
JR-178	6.3	6.0	6.7	6.7	6.3	8.0	7.0	6.7	5.3	3.7
PINNACLE	5.7	5.7	6.0	5.0	5.0	7.3	7.0	7.0	6.0	5.0
PPG-PR 136	6.3	6.0	6.0	6.3	6.3	7.3	6.7	6.7	5.7	4.3
PPG-PR 137	6.0	6.7	6.3	6.0	5.7	8.0	7.0	7.0	4.7	3.3
PPG-PR 138	5.7	6.0	6.0	6.3	6.0	7.7	7.3	7.0	5.0	3.3
PPG-PR 143	7.0	7.0	7.0	6.3	6.0	8.7	7.0	7.0	4.3	3.3
PPG-PR 164	7.3	7.3	6.3	6.3	5.7	8.0	7.3	7.0	5.0	3.0
PRX-4GM1	7.0	7.0	6.7	6.0	6.7	7.3	7.0	7.0	5.0	5.0
PST-2ACR	6.7	6.3	7.0	6.3	6.0	8.0	7.0	7.3	4.7	4.0
PST-2NKM	7.0	7.0	6.7	7.0	6.0	8.0	7.0	7.0	4.3	4.0
RINOVO	7.0	7.3	7.0	7.0	7.0	8.7	7.3	7.0	5.3	4.0
EVOLUTION (S85)	6.3	6.0	6.0	6.7	6.0	7.7	7.0	7.0	4.0	3.0
ALLANTE	6.3	7.0	6.3	6.0	6.3	7.7	7.0	6.3	5.7	4.7
HAVEN (APR 2038)	7.0	7.3	6.7	6.7	6.3	7.7	7.0	6.7	4.0	4.0
INSIGHT	7.0	7.0	6.3	5.7	5.3	7.7	7.0	6.3	5.3	4.3
ISG-31	6.3	7.0	6.3	6.7	6.3	6.7	7.0	7.0	5.0	3.3
PPG-PR 140	6.3	6.0	6.0	6.0	6.0	8.0	7.3	6.7	4.0	3.0
MANHATTAN 6 GLR (PST-2MAGS)	6.3	7.0	7.0	6.7	7.0	7.7	7.7	7.7	4.3	3.0
PST-2TQL	7.3	7.3	7.0	6.0	6.0	8.3	7.3	7.0	3.7	3.3
UNO	7.0	6.7	6.3	5.7	5.0	8.0	7.0	7.0	4.7	3.7
BAR LP 7608	6.7	7.0	7.0	5.7	5.3	7.0	7.0	7.0	4.7	3.7
CS-PR66	7.0	7.0	7.0	7.0	7.0	7.7	7.0	7.0	3.7	3.0
CST	6.7	7.0	7.0	6.7	6.3	7.3	7.0	7.0	4.3	3.0
DLF LGD-3022	7.0	6.7	7.0	6.7	6.3	8.3	7.0	7.0	4.3	4.0
FIESTA 4	6.7	7.0	6.0	6.7	7.0	7.7	7.3	6.0	4.3	3.0
GO-G37	7.0	7.0	7.0	7.0	6.7	7.3	7.3	6.7	4.7	2.7
KARMA (PICK 10401)	7.0	7.7	8.0	6.7	6.7	7.0	7.0	6.7	5.0	4.7
PPG-PR 128	6.0	7.0	7.0	7.0	6.3	7.3	7.0	6.3	4.7	4.0
PPG-PR 142	6.7	7.0	7.0	6.3	6.3	7.3	6.7	6.7	5.3	3.0

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	COLOR OF OVERALL PLOT IN SPRING/SUMMER TRANSITION					QUALITY OF OVERALL PLOT IN SPRING/SUMMER TRANSITION				
NAME	4/14/11	4/27/11	5/9/11	5/23/11	6/1/11	4/14/11	4/27/11	5/9/11	5/23/11	6/1/11
PST-204D	6.0	6.0	6.3	7.0	6.3	7.7	7.0	7.0	4.7	4.3
SIENNA	5.3	5.0	5.7	6.0	5.0	7.3	7.3	6.3	5.7	3.0
2NJK	6.0	6.3	6.0	6.7	5.3	7.7	7.0	6.0	4.0	3.0
APR 2036	5.7	6.3	6.0	6.0	6.3	7.0	7.0	7.0	5.0	3.7
APR 2445	6.0	6.0	7.0	6.3	6.3	7.7	7.3	6.0	3.7	3.7
BRIGHTSTAR SLT	6.3	7.0	6.3	6.0	4.7	6.7	7.3	7.0	4.7	4.0
CS-20	6.0	6.0	6.7	7.0	6.3	6.7	7.3	7.0	4.0	3.0
DOMINATOR (PST-2AG4)	7.0	8.0	7.3	6.7	6.3	7.7	7.3	7.3	4.7	3.7
GO-DHS	6.3	7.0	7.0	7.3	6.7	7.0	7.0	7.0	4.7	3.3
IS-PR 409	7.0	7.0	6.3	6.3	6.7	8.0	7.0	6.7	4.7	3.0
IS-PR 487	7.0	7.0	6.7	7.0	7.0	7.7	7.0	6.3	4.7	3.0
IS-PR 488	7.0	7.0	6.7	6.3	6.3	7.3	7.0	6.7	4.3	3.0
IS-PR 492	6.7	7.0	6.7	6.7	6.0	7.3	6.7	6.3	5.3	3.0
PLAYOFF 2 (P02)	6.3	6.7	6.3	6.7	6.7	7.0	7.0	7.0	4.0	3.3
PIZZAZZ 2 GLR (PR 909)	6.3	6.3	6.3	6.3	6.3	7.7	7.7	7.0	5.3	3.0
PST-2MG7	6.3	6.3	6.0	6.3	6.3	7.7	7.3	7.3	4.3	3.3
RAD-PR55R	6.7	6.7	7.0	6.7	7.0	7.3	7.0	6.3	5.0	4.0
SIDEWAYS (PSRX-S84)	7.0	7.3	6.7	6.3	6.3	7.7	6.7	6.3	4.3	3.0
APR 2320	7.0	7.0	6.7	6.3	6.3	8.0	7.0	6.7	3.7	3.7
IS-PR 469	6.7	6.7	6.0	5.3	5.7	8.0	7.3	6.7	4.3	3.0
IS-PR 491	6.7	7.0	7.0	6.7	6.3	7.7	6.7	6.0	4.0	3.0
PANGEA GLR (CL 11701)	6.0	6.3	6.0	6.3	6.0	7.3	6.7	7.0	5.0	4.0
PPG-PR 165	7.0	7.0	7.0	6.0	6.3	7.3	7.0	6.7	4.3	3.0
GO-PR60	6.0	7.0	7.0	7.0	6.7	6.7	6.7	7.3	3.7	3.0
ISG-36	7.0	7.0	7.0	7.0	7.0	6.7	6.3	6.7	3.7	3.0
LTP-RAE	6.7	7.0	6.7	6.7	7.0	6.3	6.3	6.7	4.7	3.7
PSRX-4CAGL	6.7	6.7	6.7	6.3	5.7	6.7	6.3	6.7	4.0	4.3
PST-2DR9	5.7	6.0	5.7	6.3	6.3	6.7	6.7	6.7	5.3	3.7
RAD-PR62	7.0	7.0	7.0	6.3	7.0	7.0	7.0	6.7	4.0	3.0
WICKED (SRX-4RHD)	7.0	7.0	7.0	6.3	6.7	7.3	6.7	6.7	4.0	3.0
A-35	5.3	5.7	6.3	7.3	6.3	6.7	6.7	6.3	4.3	2.7
BAR LP 10970	6.7	7.0	6.3	6.0	5.7	7.3	6.3	6.7	4.3	3.3
CL 11601	6.0	7.0	6.0	5.7	6.0	7.0	7.0	6.3	4.3	3.3
DLF LGT 4182	6.0	6.0	5.7	6.7	6.3	7.0	6.7	6.3	3.3	2.7
IS-PR 463	6.0	6.0	6.3	6.0	6.0	7.0	6.7	5.7	4.7	3.3
JR-192	6.3	6.3	6.7	6.7	6.0	6.3	6.3	7.0	4.3	3.0
DLF LGD-3026	6.0	7.0	7.0	7.0	6.0	6.3	6.0	6.0	4.3	4.0
ISG-30	5.7	5.3	6.0	6.7	6.0	6.3	6.3	6.7	4.0	3.0
PST-2BNS	5.7	6.7	7.0	6.3	6.3	5.7	6.7	7.0	4.7	3.0
IS-PR 479	6.0	6.3	6.3	7.0	6.7	6.7	6.7	6.7	3.3	3.0
LINN	4.0	4.0	4.0	3.3	4.3	6.0	6.0	6.0	4.0	4.0
LSD VALUE	0.6	0.5	0.6	1.1	0.8	2.9	1.3	0.9	2.1	0.6
C.V. (%)	6.2	5.1	5.7	9.6	7.7	12.9	7.2	6.9	18.2	11.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 16. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/ 2011 DATA TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	DENSITY OF OVERALL PLOT IN SPRING/SUMMER TRANSITION 4/14/11	4/27/11	5/9/11	5/23/11	6/1/11	UNIFORMITY OF OVERALL PLOT IN SPRING/SUMMER TRANSITION 4/14/11	4/27/11	5/9/11	5/23/11	6/1/11	QUALITY MEAN
LTP-PR 135	7.3	6.7	6.7	5.7	4.3	7.0	7.0	7.3	5.0	4.0	7.0
OCTANE	8.0	7.3	7.0	5.0	3.7	7.7	8.0	8.0	5.0	4.7	7.0
SOX FAN (GM3)	8.0	7.3	7.0	5.7	4.7	7.0	7.0	7.0	5.3	4.0	6.9
BONNEVILLE	8.0	7.0	7.0	5.7	4.3	7.3	8.0	7.7	5.7	4.7	6.8
MACH I	9.0	7.3	6.7	4.3	3.7	7.0	7.0	7.0	4.3	3.0	6.8
PICK 4DFHM	8.0	7.7	7.0	5.3	5.0	7.3	7.0	7.0	5.3	4.3	6.8
PPG-PR 121	7.7	7.3	7.0	5.7	5.0	7.0	7.0	6.7	6.0	4.0	6.8
PPG-PR 133	9.0	7.3	6.7	5.7	5.0	7.0	7.7	7.0	5.3	4.0	6.8
PPG-PR 134	8.0	7.7	7.0	6.0	4.3	7.0	7.3	7.7	5.0	4.0	6.8
CL 307	7.7	7.0	7.0	5.7	5.0	7.3	7.3	7.3	5.7	4.0	6.7
PALMER V	8.0	7.3	7.0	5.0	3.7	7.3	7.0	7.0	5.7	3.3	6.7
BAR LP 10972	8.0	7.0	6.7	4.3	4.0	7.3	7.0	7.0	4.3	3.3	6.6
PST-2K9	7.3	7.0	6.0	4.0	3.0	7.0	7.3	6.3	4.0	3.0	6.6
RIO VISTA	8.0	7.0	6.0	5.3	5.0	7.3	7.7	7.0	4.7	5.0	6.6
SR 4650 (PSRX-3701)	8.0	7.0	7.0	5.0	4.0	7.3	7.3	7.0	5.0	3.3	6.6
SRX-4MSH	7.7	7.7	6.7	4.3	4.0	7.3	7.0	6.7	4.7	4.7	6.6
BAR LP 10969	8.3	7.0	7.0	4.3	3.0	7.3	7.0	7.0	4.0	3.0	6.5
IS-PR 489	8.3	7.3	6.7	5.0	4.0	7.3	7.3	7.0	4.7	4.3	6.5
JR-178	8.0	7.0	7.0	4.7	4.0	7.0	7.0	7.0	4.3	2.7	6.5
PINNACLE	7.3	7.3	6.7	5.7	5.0	7.0	7.3	6.7	5.3	4.3	6.5
PPG-PR 136	7.7	7.0	6.0	5.3	4.7	7.0	7.3	6.3	5.7	4.7	6.5
PPG-PR 137	8.0	8.0	6.7	4.3	3.3	7.0	7.7	7.0	5.0	3.7	6.5
PPG-PR 138	7.7	7.3	6.7	5.0	4.0	7.0	7.0	7.0	5.7	4.0	6.5
PPG-PR 143	8.3	7.3	6.7	4.7	2.7	7.3	7.3	6.7	4.0	3.0	6.5
PPG-PR 164	8.0	7.7	7.0	4.7	3.7	7.0	7.0	8.0	4.3	3.3	6.5
PRX-4GM1	8.0	7.0	7.0	5.3	5.0	7.0	7.0	7.0	5.0	4.3	6.5
PST-2ACR	7.7	7.0	5.3	4.7	4.0	7.3	7.0	5.7	4.0	3.7	6.5
PST-2NKM	8.0	7.7	6.0	3.7	3.0	7.3	7.0	6.3	4.3	4.0	6.5
RINOVO	8.7	8.0	7.0	5.3	4.0	7.3	7.0	6.3	6.0	3.7	6.5
EVOLUTION (S85)	7.7	7.0	7.0	4.0	4.0	7.0	7.3	7.0	5.0	3.7	6.5
ALLANTE	7.7	7.0	6.0	5.3	4.7	7.0	7.3	6.7	6.0	5.0	6.4
HAVEN (APR 2038)	8.0	6.7	7.0	4.7	4.0	7.0	8.0	7.0	5.0	4.3	6.4
INSIGHT	7.7	7.0	7.0	5.0	4.0	7.0	7.0	7.0	6.0	4.0	6.4
ISG-31	7.3	7.3	7.0	4.3	3.3	7.7	7.7	7.0	4.0	3.3	6.4
PPG-PR 140	7.0	6.7	6.0	4.0	3.3	7.3	7.0	6.3	5.0	3.0	6.4
MANHATTAN 6 GLR (PST-2MAGS)	7.0	6.7	5.3	4.0	2.7	7.3	7.3	6.7	3.7	2.7	6.4
PST-2TQL	7.7	7.0	6.0	3.7	2.7	7.0	7.0	6.3	4.0	3.3	6.4
UNO	8.0	7.7	7.0	4.7	4.3	7.0	7.3	7.0	5.0	4.7	6.4
BAR LP 7608	7.7	7.3	7.0	4.7	4.0	7.0	7.0	7.0	4.0	3.3	6.3
CS-PR66	8.0	7.0	6.0	3.0	3.0	7.0	7.3	7.0	3.7	3.0	6.3
CST	7.7	7.3	6.7	4.3	3.0	7.0	7.0	7.0	3.0	3.3	6.3
DLF LGD-3022	8.3	8.0	7.0	4.0	3.3	7.7	7.0	6.7	5.0	3.7	6.3
FIESTA 4	7.7	6.7	6.3	4.3	3.0	7.3	7.0	7.0	5.0	3.0	6.3
GO-G37	7.7	7.0	6.0	4.0	2.7	7.0	7.0	6.3	4.7	2.7	6.3
KARMA (PICK 10401)	8.0	7.0	7.0	5.0	4.3	7.0	7.0	7.0	5.0	4.0	6.3
PPG-PR 128	7.7	6.7	7.0	4.3	3.3	7.3	7.3	7.3	5.0	3.3	6.3
PPG-PR 142	7.3	6.7	5.7	5.0	3.0	7.3	6.7	6.7	5.0	3.0	6.3

TABLE 16. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT EUFAULA (OVERSEEDING AT EUFAULA COUNTRY CLUB), AL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	DENSITY OF OVERALL PLOT IN SPRING/SUMMER TRANSITION					UNIFORMITY OF OVERALL PLOT IN SPRING/SUMMER TRANSITION					QUALITY
NAME	4/14/11	4/27/11	5/9/11	5/23/11	6/1/11	4/14/11	4/27/11	5/9/11	5/23/11	6/1/11	MEAN
PST-204D	7.7	7.3	6.3	4.7	4.3	7.0	7.0	6.0	4.7	3.3	6.3
SIENNA	7.7	7.0	7.0	5.3	3.7	7.0	7.3	7.0	5.7	3.3	6.3
2NJK	7.3	7.3	6.7	3.7	2.7	7.3	7.0	7.0	4.3	3.0	6.2
APR 2036	7.3	7.0	6.7	4.7	4.7	7.3	7.0	6.7	5.3	4.7	6.2
APR 2445	7.7	7.0	6.7	4.0	3.7	7.3	7.0	7.0	4.7	3.7	6.2
BRIGHTSTAR SLT	7.0	6.7	6.7	4.0	4.0	7.3	7.0	6.7	5.3	3.3	6.2
CS-20	7.0	7.0	6.0	4.0	3.0	7.0	7.0	6.7	4.3	3.3	6.2
DOMINATOR (PST-2AG4)	7.7	7.0	6.7	4.7	3.7	7.3	7.0	6.3	4.7	3.3	6.2
GO-DHS	7.0	6.7	6.3	4.3	3.0	7.0	7.0	7.0	4.0	3.3	6.2
IS-PR 409	8.0	7.3	6.7	4.3	3.7	7.3	7.3	7.0	3.3	3.0	6.2
IS-PR 487	8.0	7.7	6.7	4.7	3.3	7.0	7.0	6.7	3.3	3.7	6.2
IS-PR 488	7.3	7.0	7.0	4.3	3.7	7.3	7.0	7.0	3.3	3.7	6.2
IS-PR 492	7.7	6.7	6.7	4.7	3.0	7.0	7.0	7.0	4.0	4.0	6.2
PLAYOFF 2 (P02)	7.3	7.3	7.0	4.0	3.7	7.3	7.3	6.7	4.7	3.3	6.2
PIZZAZZ 2 GLR (PR 909)	7.7	7.0	6.7	5.3	4.3	7.0	6.7	6.7	6.0	4.3	6.2
PST-2MG7	8.0	7.3	6.3	4.3	3.0	7.3	7.0	6.7	3.7	3.0	6.2
RAD-PR55R	7.7	7.3	6.3	4.7	3.0	7.0	7.0	7.0	4.7	2.7	6.2
SIDEWAYS (PSRX-S84)	8.0	8.0	6.3	4.0	3.3	7.7	7.3	6.7	4.3	4.3	6.2
APR 2320	8.0	7.0	6.7	4.0	3.7	7.7	7.7	7.0	5.3	4.0	6.1
IS-PR 469	8.0	7.0	6.3	4.3	4.0	7.0	7.0	7.0	5.0	4.3	6.1
IS-PR 491	8.0	7.0	6.3	4.0	3.3	7.3	7.3	7.0	4.0	3.7	6.1
PANGEA GLR (CL 11701)	7.3	6.3	7.0	5.0	4.3	7.0	7.3	7.0	5.7	4.0	6.1
PPG-PR 165	7.7	7.0	6.7	4.0	3.3	7.7	7.0	7.0	4.3	3.3	6.1
GO-PR60	7.0	7.0	6.0	3.7	3.0	7.0	7.3	6.3	3.7	2.7	6.0
ISG-36	7.0	6.7	6.3	3.3	2.7	7.3	7.7	7.0	4.0	2.7	6.0
LTP-RAE	7.3	6.7	6.3	4.3	3.7	7.0	7.0	6.7	5.0	3.7	6.0
PSRX-4CAGL	7.0	7.0	7.0	3.7	3.3	7.3	7.0	6.0	4.3	3.7	6.0
PST-2DR9	7.3	7.0	6.7	4.7	3.0	6.7	7.0	6.3	4.0	2.7	6.0
RAD-PR62	7.3	6.7	6.0	3.7	3.0	7.0	7.0	6.3	3.3	3.3	6.0
WICKED (SRX-4RHD)	7.7	7.3	7.0	4.0	3.0	7.7	8.0	7.0	4.7	4.0	6.0
A-35	7.0	6.7	6.3	4.0	2.7	7.3	7.3	6.7	3.3	3.3	5.9
BAR LP 10970	7.7	8.0	6.0	4.0	3.0	7.3	7.7	6.3	4.0	3.0	5.9
CL 11601	7.0	7.0	6.3	4.7	3.3	7.3	7.0	7.0	6.3	4.0	5.9
DLF LGT 4182	7.3	7.0	6.3	3.0	2.7	7.0	7.0	6.7	3.0	3.3	5.9
IS-PR 463	7.3	6.7	7.0	4.7	3.7	7.0	7.0	7.0	5.0	3.7	5.9
JR-192	7.0	7.3	6.7	4.3	3.0	7.0	7.0	6.7	4.7	3.3	5.9
DLF LGD-3026	8.0	7.7	6.7	4.0	4.0	7.3	7.3	7.0	4.3	4.3	5.8
ISG-30	6.3	6.0	6.0	4.0	3.3	7.0	7.0	6.7	3.3	3.3	5.8
PST-2BNS	7.3	7.3	5.7	4.3	3.3	6.7	6.7	6.0	3.7	3.0	5.7
IS-PR 479	7.0	6.7	6.3	3.3	3.0	7.3	7.3	7.0	3.0	3.3	5.6
LINN	7.0	7.0	7.0	4.0	4.0	7.3	7.0	6.3	5.3	5.0	5.2
LSD VALUE	2.0	0.9	0.8	2.5	0.8	1.9	0.7	0.7	0.9	1.1	0.4
C.V. (%)	9.0	6.3	6.6	20.9	13.5	5.8	5.0	5.6	11.9	16.8	4.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 17. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT TUCSON (OVERSEEDING AT TUCSON COUNTRY CLUB), AZ 1/
2010-11 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT OVERSEEDING GRASSES EARLY ESTABLISHED	OVERSEEDING GRASS RATINGS IN FALL TRANSITION %COVER 12/13/10	%COVER 1/10/11	QUALITY 12/13/10	COLOR OF OVERSEEDING GRASS IN WINTER 12/13/10	1/10/11	2/3/11	3/5/11	OVERSEEDING GRASS QUALITY IN WINTER 1/10/11	2/3/11	3/5/11
KARMA (PICK 10401)	38.3	83.3	96.0	6.7	6.7	6.7	6.7	6.3	7.3	7.7	8.3
PPG-PR 128	36.7	90.0	93.0	7.0	6.7	7.0	7.0	6.0	6.7	7.3	8.0
OCTANE	33.3	83.3	96.0	6.7	7.3	7.0	6.0	6.3	6.7	7.0	8.0
CL 307	30.0	81.7	93.7	5.0	6.3	6.3	6.0	6.0	6.7	7.0	6.7
SIDEWAYS (PSRX-S84)	36.7	86.7	96.3	6.7	6.3	6.3	6.0	5.7	7.0	7.7	8.7
CL 11601	43.3	88.3	94.7	7.0	6.3	5.7	5.7	5.3	7.3	7.0	8.0
IS-PR 487	36.7	73.3	93.0	6.0	5.7	6.3	7.0	6.3	6.3	6.3	6.7
PPG-PR 137	33.3	83.3	94.3	6.3	6.3	6.7	6.3	6.0	7.0	7.3	7.7
PPG-PR 142	33.3	86.7	93.0	7.0	6.7	7.3	6.3	6.3	6.7	6.7	7.0
IS-PR 492	36.7	80.0	90.0	5.7	6.3	6.0	6.0	5.3	6.7	6.3	7.3
ISG-31	30.0	83.3	94.7	6.3	7.7	7.3	8.0	7.7	7.0	7.0	7.7
PPG-PR 133	31.7	78.3	94.7	6.3	7.0	6.7	6.7	6.0	6.0	7.0	7.3
HAVEN (APR 2038)	40.0	83.3	97.7	6.7	7.0	6.3	5.7	5.7	7.3	7.0	7.0
SIENNA	40.0	80.0	92.3	7.0	6.7	6.0	5.7	6.3	6.0	6.0	7.3
2NJK	28.3	90.0	97.7	7.3	6.7	6.7	6.7	6.7	7.3	6.7	7.0
BAR LP 10972	31.7	80.0	93.0	6.0	6.3	6.7	6.0	5.7	6.3	6.3	6.0
PPG-PR 121	33.3	86.7	93.0	5.7	6.7	7.0	6.7	6.3	6.7	7.0	7.0
PST-2K9	31.7	83.3	91.7	6.3	7.0	7.0	5.7	5.7	6.0	6.3	7.0
RIO VISTA	38.3	80.0	90.0	6.3	6.7	6.7	6.0	5.7	6.3	6.0	7.0
INSIGHT	28.3	73.3	90.0	6.7	6.0	6.3	5.7	6.0	6.0	6.0	7.0
IS-PR 469	38.3	71.7	89.7	5.7	6.3	6.7	6.0	6.0	6.0	6.0	7.0
IS-PR 488	30.0	75.0	86.7	5.7	6.3	6.7	6.3	6.0	5.7	7.0	7.0
PPG-PR 136	35.0	76.7	91.3	5.7	6.0	6.7	5.7	6.3	5.7	6.3	7.7
PPG-PR 165	31.7	76.7	93.3	6.0	6.3	6.0	5.7	6.0	5.7	6.3	6.3
PRX-4GM1	43.3	81.7	93.0	6.3	7.0	6.7	6.3	6.3	6.7	5.7	7.0
MANHATTAN 6 GLR (PST-2MAGS)	38.3	78.3	91.3	6.0	6.7	6.0	5.7	6.0	6.0	6.0	6.3
PST-2MG7	30.0	78.3	93.0	5.7	7.0	6.7	6.3	7.0	6.0	6.7	6.3
CS-20	20.0	88.3	93.0	6.0	7.7	8.3	7.7	7.3	7.0	7.0	6.7
LTP-PR 135	33.3	76.7	91.7	6.0	6.3	7.3	6.3	6.3	6.7	6.7	6.7
WICKED (SRX-4RHD)	26.7	80.0	93.3	5.7	7.0	7.0	6.0	6.3	5.7	6.3	7.0
MACH I	30.0	85.0	97.7	6.0	6.3	7.3	7.3	7.0	7.0	7.7	7.7
PPG-PR 164	28.3	76.7	93.3	5.7	7.3	7.7	7.3	6.7	6.7	7.0	6.7
PST-2TQL	20.0	81.7	94.7	5.7	6.7	6.7	6.7	6.3	6.7	7.0	7.3
APR 2036	30.0	78.3	86.7	5.7	7.0	7.0	4.7	6.0	6.0	5.7	6.0
CST	21.7	73.3	94.7	5.0	7.0	6.7	6.3	6.0	6.3	6.3	7.7
DLF LGD-3022	28.3	85.0	93.0	6.7	7.3	6.7	6.7	6.0	6.3	5.7	7.0
IS-PR 489	21.7	76.7	91.7	5.7	7.0	6.0	5.3	5.3	6.3	6.0	6.7
PLAYOFF 2 (P02)	23.3	83.3	90.0	6.0	7.0	7.0	6.7	6.0	6.7	7.7	7.0
PPG-PR 143	36.7	80.0	94.3	6.0	6.3	6.7	6.0	6.0	6.3	7.0	7.0
PST-2DR9	23.3	73.3	90.0	5.0	6.7	7.3	6.3	6.3	6.0	6.0	6.7
RAD-PR55R	21.7	70.0	88.3	6.0	8.0	7.3	6.7	6.7	5.7	5.7	7.3
PANGEA GLR (CL 11701)	33.3	76.7	86.3	5.7	6.7	7.3	5.7	6.0	5.7	6.3	6.3
PPG-PR 134	35.0	66.7	86.3	5.3	7.0	6.7	6.0	6.0	6.0	6.3	6.7
RINOVO	38.3	71.7	90.0	5.7	7.0	6.3	7.0	6.3	6.0	5.3	6.0
GO-G37	26.7	68.3	91.3	5.3	8.0	8.0	7.7	7.7	5.7	5.7	7.0
IS-PR 463	30.0	83.3	90.0	6.3	7.0	6.3	6.0	5.7	6.3	5.7	6.0
LTP-RAE	21.7	66.7	91.7	5.3	7.0	7.0	6.0	6.0	5.7	6.0	6.3

TABLE 17. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT TUCSON (OVERSEEDING AT TUCSON COUNTRY CLUB), AZ 1/

2010-11 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT OVERSEEDING GRASSES EARLY ESTABLISHED	OVERSEEDING GRASS RATINGS IN FALL TRANSITION %COVER 12/13/10	%COVER 1/10/11	QUALITY 12/13/10	COLOR OF OVERSEEDING GRASS IN WINTER 12/13/10	1/10/11	2/3/11	3/5/11	OVERSEEDING GRASS QUALITY IN WINTER 1/10/11	2/3/11	3/5/11
PIZZAZZ 2 GLR (PR 909)	40.0	81.7	96.3	6.7	6.3	6.0	6.3	6.0	6.3	6.3	6.3
UNO	26.7	81.7	91.7	6.3	6.7	6.3	6.3	6.3	6.7	7.0	6.7
SOX FAN (GM3)	26.7	78.3	93.0	5.7	6.7	7.0	6.3	6.0	6.7	6.7	7.0
GO-DHS	21.7	63.3	81.3	4.7	8.0	7.7	6.7	6.3	6.0	5.7	6.3
IS-PR 409	25.0	76.7	88.3	5.3	6.7	7.0	6.3	6.7	6.3	6.0	6.7
IS-PR 491	21.7	76.7	86.7	5.7	7.0	7.7	6.7	6.7	5.7	5.3	6.0
ALLANTE	31.7	80.0	91.7	6.0	6.3	6.7	6.3	5.3	6.0	6.3	6.7
APR 2445	18.3	70.0	91.7	5.3	6.7	7.0	7.0	6.3	6.3	6.0	6.0
BAR LP 10970	30.0	83.3	91.3	6.3	7.3	7.3	6.0	6.0	6.3	5.7	6.0
BRIGHTSTAR SLT	30.0	76.7	91.0	6.0	6.3	6.0	5.0	5.3	6.0	5.7	5.7
GO-PR60	25.0	78.3	92.3	6.0	7.0	7.0	6.7	6.0	6.3	5.3	6.0
IS-PR 479	26.7	65.0	88.3	5.7	7.0	7.3	7.3	6.7	5.7	5.7	6.3
PINNACLE	40.0	80.0	93.0	6.3	5.7	5.3	4.7	4.7	6.3	6.7	7.0
SR 4650 (PSRX-3701)	31.7	75.0	85.0	5.7	7.3	7.0	6.3	6.3	5.7	5.3	5.7
APR 2320	21.7	71.7	90.0	5.7	7.0	6.7	5.7	6.3	5.3	5.3	5.7
BAR LP 7608	36.7	68.3	85.0	5.3	5.7	5.0	5.3	5.7	5.3	5.3	5.7
PPG-PR 140	23.3	75.0	83.3	5.3	7.0	6.3	6.0	5.7	5.7	6.3	6.0
PSRX-4CAGL	30.0	75.0	88.0	6.3	7.3	7.7	6.7	6.7	6.0	5.3	6.0
BAR LP 10969	23.3	75.0	85.0	6.0	6.3	5.7	5.3	6.0	5.3	4.7	5.7
BONNEVILLE	21.7	71.7	85.0	5.0	7.3	6.3	5.7	6.3	6.0	6.3	6.0
JR-178	25.0	61.7	85.0	5.0	7.0	6.7	6.3	6.0	5.0	5.7	5.7
PST-2ACR	26.7	71.7	83.3	6.0	7.0	6.3	5.3	5.3	5.3	5.0	5.3
PST-2NKM	26.7	70.0	88.3	5.0	6.7	6.0	6.0	6.0	6.0	5.3	5.3
CS-PR66	28.3	76.7	88.3	6.0	7.0	6.7	5.7	6.0	5.7	5.3	5.3
PST-204D	23.3	66.7	83.3	4.7	6.7	7.0	5.7	6.0	4.7	4.7	4.7
DOMINATOR (PST-2AG4)	30.0	71.7	90.0	6.0	7.3	6.3	6.3	5.7	6.0	5.3	5.7
ISG-30	31.7	78.3	88.0	5.3	7.3	8.0	7.7	8.0	6.0	5.3	5.7
FIESTA 4	33.3	70.0	85.0	5.7	7.3	6.7	6.0	5.3	5.7	5.0	5.3
PALMER V	30.0	70.0	93.3	6.0	6.0	6.0	6.7	5.7	6.3	6.0	6.0
PST-2BNS	30.0	66.7	80.0	5.7	6.3	6.0	4.7	5.3	5.3	4.7	4.7
DLF LGD-3026	23.3	65.0	81.7	5.0	7.0	6.7	6.0	6.3	5.3	5.0	5.3
PICK 4DFHM	28.3	68.3	83.3	5.7	6.7	6.0	6.0	5.7	5.3	5.0	5.7
PPG-PR 138	23.3	71.7	83.3	4.7	6.7	7.0	5.7	5.3	5.3	5.3	6.3
ISG-36	16.7	55.0	81.7	4.3	7.3	7.3	5.7	7.0	5.3	5.3	4.7
JR-192	25.0	56.7	75.0	4.3	6.7	7.0	5.0	6.0	4.7	4.3	5.3
EVOLUTION (S85)	21.7	56.7	76.7	4.3	8.0	6.7	6.0	5.7	4.3	4.3	4.7
SRX-4MSH	23.3	60.0	83.3	4.7	6.3	6.0	6.0	5.7	4.7	5.3	4.7
A-35	25.0	63.3	75.0	4.3	8.0	7.7	7.7	7.3	4.7	4.3	4.7
RAD-PR62	20.0	48.3	73.3	3.7	6.3	6.0	4.3	5.3	4.7	4.3	4.3
LINN	31.7	55.0	78.3	4.7	4.3	4.3	4.7	4.0	4.0	3.7	4.0
DLF LGT 4182	20.0	36.7	60.0	3.3	5.7	7.0	4.0	5.0	3.0	3.0	3.0
LSD VALUE	22.8	31.4	16.5	3.5	2.1	1.5	2.0	1.5	2.6	4.3	3.4
C.V. (%)	30.2	17.3	8.8	19.9	12.2	11.4	15.4	12.5	17.7	23.6	22.0

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

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

3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 600 LBS./ACRE.

TABLE 17. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT TUCSON (OVERSEEDING AT TUCSON COUNTRY CLUB), AZ 1/

2010-11 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	COLOR RATINGS OF THE OVERALL PLOT IN SPRING					QUALITY RATINGS OF THE OVERALL PLOT IN SPRING					OVERALL PLOT IN SPRING DENSITY	UNIFORMITY
NAME	4/11/11	5/16/11	6/6/11	6/13/11	7/5/11	4/11/11	5/16/11	6/6/11	6/13/11	7/5/11	6/13/11	4/11/11
KARMA (PICK 10401)	6.0	6.3	6.7	6.7	7.0	7.7	7.7	7.3	7.3	6.7	7.7	7.7
PPG-PR 128	6.0	6.0	6.3	6.0	5.7	7.7	7.7	6.7	8.0	7.3	8.3	7.3
OCTANE	6.7	6.3	6.7	6.7	7.0	7.7	7.3	7.0	7.7	7.3	8.0	8.0
CL 307	7.0	6.7	7.0	6.7	6.7	7.3	7.7	8.0	8.7	7.3	9.0	7.3
SIDEWAYS (PSRX-S84)	6.0	5.7	6.0	6.0	5.7	7.3	5.7	7.0	7.7	6.7	7.3	7.3
CL 11601	6.0	5.7	5.3	5.0	5.3	7.3	7.0	6.3	6.3	6.7	7.3	7.3
IS-PR 487	6.7	6.3	6.0	5.7	6.0	7.7	7.0	7.7	8.0	7.3	8.3	8.0
PPG-PR 137	6.0	5.7	6.3	7.0	6.7	6.7	7.0	7.0	7.0	6.7	7.7	7.0
PPG-PR 142	6.0	7.0	7.0	6.7	6.3	6.7	7.3	7.0	7.3	7.0	7.7	7.0
IS-PR 492	7.3	6.0	6.0	6.3	5.7	7.0	7.0	7.7	8.3	6.3	9.0	7.3
ISG-31	8.0	8.3	7.0	7.0	6.3	6.7	6.7	7.0	7.3	6.3	7.3	7.0
PPG-PR 133	6.7	7.0	6.7	6.3	6.3	7.3	6.7	7.3	8.0	5.7	7.7	7.0
HAVEN (APR 2038)	6.0	6.7	6.0	5.7	5.0	7.0	7.0	6.7	7.0	5.3	7.0	6.0
SIENNA	5.7	5.7	5.3	5.3	4.3	6.3	8.0	7.3	8.3	4.7	8.3	7.0
2NJK	6.0	6.0	6.0	6.0	6.7	6.0	6.3	6.7	6.3	6.7	7.0	6.3
BAR LP 10972	6.7	6.7	6.7	6.0	6.0	6.7	6.7	7.0	8.0	7.0	8.7	6.0
PPG-PR 121	6.3	6.7	7.0	6.0	6.7	7.7	7.0	6.0	6.7	6.3	7.0	6.7
PST-2K9	6.0	6.3	5.7	6.0	6.0	7.0	7.0	6.7	6.7	7.0	7.0	7.0
RIO VISTA	6.3	6.7	6.7	6.7	4.7	6.7	7.3	8.0	7.3	5.3	7.7	7.3
INSIGHT	6.3	6.0	5.7	6.3	4.3	7.0	7.7	7.3	7.0	4.3	7.0	6.0
IS-PR 469	7.3	7.3	8.0	7.7	6.7	7.3	7.3	7.3	6.7	6.0	7.7	7.0
IS-PR 488	6.3	6.7	6.3	6.7	5.0	6.7	7.3	7.3	7.3	5.7	8.0	6.7
PPG-PR 136	6.3	7.7	7.0	6.7	6.3	7.3	7.3	7.0	6.7	6.0	8.3	7.0
PPG-PR 165	6.3	6.7	7.0	6.3	6.7	7.0	6.7	7.0	7.3	6.7	7.7	7.3
PRX-4GM1	6.7	7.3	6.7	6.3	6.3	6.3	6.7	7.0	7.3	6.3	8.0	6.3
MANHATTAN 6 GLR (PST-2MAGS)	6.7	6.7	7.0	6.3	5.7	6.7	7.7	7.0	8.0	5.7	8.7	6.7
PST-2MG7	7.0	7.3	7.3	7.3	7.3	6.3	6.7	6.7	7.3	7.3	7.3	6.7
CS-20	7.3	8.7	8.7	8.3	7.7	6.0	7.0	6.0	6.0	6.7	7.7	6.0
LTP-PR 135	6.3	6.7	6.7	6.3	5.0	7.0	6.3	7.0	6.7	5.7	7.0	6.7
WICKED (SRX-4RHD)	6.3	7.0	7.0	6.0	6.0	6.3	6.7	6.7	7.3	7.0	7.7	6.7
MACH I	7.7	8.3	7.0	7.0	3.0	7.7	7.0	5.7	5.7	3.0	6.0	6.7
PPG-PR 164	7.0	6.7	6.7	6.3	6.3	7.0	6.3	6.0	6.3	6.0	7.7	7.7
PST-2TQL	6.3	7.0	7.7	6.3	6.3	7.0	6.0	6.0	6.7	5.3	7.0	6.7
APR 2036	7.0	7.0	7.3	5.7	5.3	6.3	6.7	7.0	6.7	6.3	6.7	6.0
CST	6.3	6.3	6.7	6.3	6.3	6.3	6.3	6.7	6.3	5.7	7.7	6.7
DLF LGD-3022	6.7	7.3	7.0	7.0	6.0	6.0	6.0	6.3	7.0	5.7	7.3	6.7
IS-PR 489	5.7	6.0	5.7	6.0	6.0	6.7	6.0	6.0	6.3	7.0	7.0	7.3
PLAYOFF 2 (P02)	6.7	7.0	7.0	6.7	5.7	6.0	6.0	6.0	5.7	5.3	6.7	6.0
PPG-PR 143	6.7	7.0	7.0	6.7	7.3	6.3	6.0	6.0	6.3	6.0	7.0	7.0
PST-2DR9	6.3	6.7	6.7	6.7	5.7	6.0	6.7	7.3	7.0	6.0	7.0	6.7
RAD-PR55R	8.0	8.7	8.3	8.0	6.7	7.0	6.3	6.3	7.0	5.3	7.3	6.7
PANGEA GLR (CL 11701)	6.3	6.0	6.7	7.0	6.7	6.7	6.3	6.3	6.7	5.7	7.0	7.3
PPG-PR 134	4.7	6.7	6.3	6.7	6.3	6.3	6.3	6.3	6.3	6.3	7.3	6.3
RINOVO	6.7	6.7	6.7	6.7	5.3	6.7	6.7	7.3	6.7	5.3	8.3	7.0
GO-G37	8.3	8.7	8.3	7.7	7.0	6.7	6.0	6.0	7.0	6.0	7.3	6.7
IS-PR 463	6.7	6.7	7.0	6.3	6.0	5.7	6.3	5.7	6.0	6.7	7.3	6.0
LTP-RAE	5.7	6.7	6.7	6.3	6.3	6.7	5.3	6.7	7.0	5.7	7.3	6.3

TABLE 17. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT TUCSON (OVERSEEDING AT TUCSON COUNTRY CLUB), AZ 1/

2010-11 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	COLOR RATINGS OF THE OVERALL PLOT IN SPRING					QUALITY RATINGS OF THE OVERALL PLOT IN SPRING					OVERALL PLOT IN SPRING	
											DENSITY	UNIFORMITY
NAME	4/11/11	5/16/11	6/6/11	6/13/11	7/5/11	4/11/11	5/16/11	6/6/11	6/13/11	7/5/11	6/13/11	4/11/11
PIZZAZZ 2 GLR (PR 909)	6.3	6.7	6.3	5.7	4.7	6.3	6.3	6.3	6.0	4.3	7.0	6.7
UNO	6.7	6.3	6.3	6.0	5.7	5.7	6.7	6.0	5.3	4.7	6.7	6.7
SOX FAN (GM3)	6.3	6.3	6.0	5.7	3.3	6.7	6.3	6.0	5.7	3.3	6.0	6.0
GO-DHS	8.3	7.7	8.0	7.7	8.0	6.0	6.0	6.0	7.3	6.3	7.7	6.0
IS-PR 409	7.0	7.0	7.0	6.7	4.7	7.3	6.0	6.0	6.0	4.7	7.0	6.7
IS-PR 491	6.7	7.3	8.0	7.3	6.7	6.0	6.0	6.0	7.0	6.7	8.0	5.7
ALLANTE	6.3	6.0	5.3	5.3	2.0	7.3	7.0	5.0	6.7	2.3	6.3	7.3
APR 2445	7.3	7.3	7.0	7.3	7.3	6.0	5.3	5.7	6.7	6.0	6.7	6.0
BAR LP 10970	7.7	7.3	6.7	7.0	4.3	6.0	6.0	5.7	6.3	4.3	6.3	6.3
BRIGHTSTAR SLT	5.0	5.3	6.3	5.0	4.7	6.7	6.3	6.0	5.7	4.7	6.7	6.7
GO-PR60	7.0	7.3	7.7	6.7	6.0	6.0	7.0	6.0	6.0	4.7	6.7	6.7
IS-PR 479	7.3	8.0	7.7	7.3	5.3	6.7	6.0	6.3	6.3	4.7	7.0	6.3
PINNACLE	4.7	4.7	4.7	4.7	3.0	6.3	6.0	5.7	5.3	3.7	6.0	6.0
SR 4650 (PSRX-3701)	6.7	6.3	7.7	6.3	6.3	6.3	6.3	6.3	6.3	5.7	8.0	6.3
APR 2320	7.3	7.3	7.3	7.0	6.7	5.7	6.0	6.0	6.3	6.0	6.7	6.0
BAR LP 7608	6.0	6.0	5.7	5.3	5.3	5.7	6.7	6.3	6.0	5.7	7.7	6.0
PPG-PR 140	6.7	6.0	5.7	6.0	4.7	6.3	6.3	6.0	5.7	4.3	6.0	7.0
PSRX-4CAGL	7.7	7.3	6.7	6.3	4.7	6.3	7.0	5.7	5.7	4.0	6.3	6.0
BAR LP 10969	5.3	5.3	6.3	5.3	4.7	5.7	6.0	6.7	6.7	5.0	7.3	5.7
BONNEVILLE	7.0	5.7	6.0	6.3	6.0	6.3	5.3	5.7	5.7	5.3	6.3	6.3
JR-178	7.0	6.3	6.7	6.0	6.0	6.0	5.3	6.7	6.3	5.3	6.7	6.3
PST-2ACR	6.3	6.7	6.3	6.3	5.7	5.7	6.3	5.7	6.7	5.0	7.0	6.3
PST-2NKM	6.3	5.7	6.0	6.0	4.7	5.7	6.3	6.0	6.7	5.3	7.3	5.7
CS-PR66	6.7	7.0	6.7	6.3	4.7	5.7	6.3	5.7	6.0	4.3	6.0	6.0
PST-204D	6.3	6.3	7.0	6.3	5.3	6.0	6.7	6.3	6.7	6.0	7.7	6.3
DOMINATOR (PST-2AG4)	6.3	7.3	5.7	5.7	3.7	6.3	6.3	6.0	5.3	3.7	6.0	6.0
ISG-30	9.0	8.0	7.3	7.0	4.7	6.3	5.7	6.0	5.0	4.0	5.3	6.3
FIESTA 4	7.7	7.3	7.3	5.7	1.7	6.0	7.3	6.3	5.7	2.0	6.3	6.0
PALMER V	7.3	6.3	5.7	5.7	2.3	6.3	5.7	4.7	5.0	2.3	4.3	6.3
PST-2BNS	5.7	6.3	5.7	5.7	5.0	5.0	6.3	5.7	5.7	5.7	7.0	5.0
DLF LGD-3026	7.7	8.3	7.7	6.3	4.7	6.0	6.0	5.7	5.7	3.7	6.0	6.3
PICK 4DFHM	6.7	6.0	5.7	5.7	4.3	5.7	4.7	5.3	5.3	4.3	5.3	6.0
PPG-PR 138	7.0	6.7	6.3	5.7	4.3	5.7	5.7	5.0	5.0	4.0	6.0	6.0
ISG-36	8.7	8.3	8.7	8.0	4.7	5.0	6.3	5.7	5.3	4.0	6.3	6.0
JR-192	6.3	6.3	6.0	6.0	5.7	5.3	5.3	5.3	6.0	5.7	6.0	5.7
EVOLUTION (S85)	6.3	7.0	7.0	6.7	6.0	5.3	5.0	6.0	6.3	5.7	6.7	5.3
SRX-4MSH	6.7	5.7	6.0	6.0	5.0	6.0	4.7	5.3	6.0	4.3	5.7	5.3
A-35	7.7	8.3	7.3	7.7	5.0	5.0	5.0	5.7	5.7	5.7	5.3	5.7
RAD-PR62	6.3	6.0	6.7	6.3	5.7	5.3	5.0	5.0	5.3	5.0	5.3	5.0
LINN	4.0	3.3	5.7	3.3	3.0	4.7	4.0	4.3	4.3	3.0	4.7	3.7
DLF LGT 4182	8.0	7.0	7.7	7.3	4.3	3.7	5.7	5.0	4.3	4.3	5.3	3.7
LSD VALUE	1.3	1.4	1.5	1.2	2.1	2.8	2.6	2.3	2.7	2.6	3.0	2.5
C.V. (%)	11.9	12.1	12.5	11.4	22.0	16.7	16.5	15.9	18.2	25.2	18.1	16.0

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

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

3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 600 LBS./ACRE.

TABLE 17. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT TUCSON (OVERSEEDING AT TUCSON COUNTRY CLUB), AZ 1/
2010-11 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT OVERSEEDING GRASS IN SPRING 4/11/11	5/1611	6/6/11	GENETIC COLOR	LEAF TEXTURE	QUALITY MEAN
KARMA (PICK 10401)	97.7	94.7	93.0	6.0	6.7	7.4
PPG-PR 128	97.7	91.7	86.0	6.0	7.0	7.4
OCTANE	94.7	94.0	86.7	6.3	6.0	7.3
CL 307	94.7	97.3	96.7	7.0	6.3	7.1
SIDEWAYS (PSRX-S84)	97.7	93.0	86.3	5.7	6.7	7.1
CL 11601	97.7	90.0	89.0	5.7	7.7	7.0
IS-PR 487	99.0	96.3	91.3	6.0	6.7	7.0
PPG-PR 137	96.0	88.0	79.7	6.3	6.7	7.0
PPG-PR 142	94.7	91.0	91.3	7.0	6.7	7.0
IS-PR 492	99.0	95.7	94.0	6.7	6.3	6.9
ISG-31	97.7	91.3	89.0	7.7	6.3	6.9
PPG-PR 133	96.3	90.7	86.7	6.7	6.0	6.9
HAVEN (APR 2038)	94.7	93.0	86.3	6.3	5.0	6.8
SIENNA	99.0	92.7	94.0	5.7	7.3	6.8
2NJK	96.3	94.0	92.7	6.0	4.7	6.7
BAR LP 10972	97.7	94.0	91.3	6.7	6.0	6.7
PPG-PR 121	97.7	91.7	83.7	6.7	6.7	6.7
PST-2K9	96.3	85.7	76.7	6.0	6.0	6.7
RIO VISTA	97.7	96.0	93.7	6.7	6.7	6.7
INSIGHT	96.3	91.3	91.3	6.0	6.7	6.6
IS-PR 469	96.0	96.3	94.7	7.3	6.3	6.6
IS-PR 488	94.7	91.7	92.0	6.3	6.7	6.6
PPG-PR 136	99.0	93.0	89.7	7.3	6.3	6.6
PPG-PR 165	97.7	91.3	83.0	6.7	6.7	6.6
PRX-4GM1	94.7	89.0	83.0	6.7	5.7	6.6
MANHATTAN 6 GLR (PST-2MAGS)	97.7	95.7	94.7	6.7	6.0	6.6
PST-2MG7	96.3	87.7	83.0	7.3	6.3	6.6
CS-20	94.7	88.3	85.0	8.3	6.3	6.5
LTP-PR 135	97.7	88.3	91.3	6.7	6.7	6.5
WICKED (SRX-4RHD)	94.3	90.0	80.0	6.7	6.0	6.5
MACH I	94.7	92.7	87.7	7.7	6.0	6.4
PPG-PR 164	94.7	87.3	84.3	7.0	6.3	6.4
PST-2TQL	96.0	88.3	78.7	7.0	4.7	6.4
APR 2036	94.3	92.3	88.3	7.0	6.3	6.3
CST	92.7	86.7	76.7	6.3	5.0	6.3
DLF LGD-3022	97.7	80.0	82.3	7.0	6.0	6.3
IS-PR 489	94.7	84.3	83.3	6.0	6.3	6.3
PLAYOFF 2 (P02)	97.7	83.0	73.3	6.7	5.3	6.3
PPG-PR 143	96.3	80.7	73.3	7.0	6.3	6.3
PST-2DR9	94.7	89.0	87.0	6.7	6.3	6.3
RAD-PR55R	93.0	88.3	79.7	8.3	5.3	6.3
PANGEA GLR (CL 11701)	94.7	79.7	76.7	6.3	6.0	6.2
PPG-PR 134	93.0	89.7	87.7	5.7	6.7	6.2
RINOVO	93.3	97.0	95.3	6.7	6.0	6.2
GO-G37	94.7	88.3	84.0	8.7	6.0	6.1
IS-PR 463	99.0	77.7	80.0	6.7	5.7	6.1
LTP-RAE	96.3	83.3	80.0	6.3	6.0	6.1

TABLE 17. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT TUCSON (OVERSEEDING AT TUCSON COUNTRY CLUB), AZ 1/
2010-11 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	PERCENT OVERSEEDING GRASS IN SPRING 4/11/11	5/1611	6/6/11	GENETIC COLOR	LEAF TEXTURE	QUALITY MEAN
PIZZAZZ 2 GLR (PR 909)	96.0	93.0	87.7	6.3	5.7	6.1
UNO	96.0	83.3	82.3	6.3	6.3	6.1
SOX FAN (GM3)	94.7	87.7	81.7	6.3	6.7	6.0
GO-DHS	94.7	93.7	87.7	8.0	5.0	6.0
IS-PR 409	94.7	88.3	78.3	7.0	6.3	6.0
IS-PR 491	96.0	88.3	84.0	7.3	5.3	6.0
ALLANTE	94.7	94.3	92.0	5.7	6.7	5.9
APR 2445	97.7	86.3	76.7	7.3	6.0	5.9
BAR LP 10970	97.7	91.3	89.7	7.3	5.7	5.9
BRIGHTSTAR SLT	94.3	89.0	85.0	5.7	6.3	5.9
GO-PR60	96.0	90.7	86.0	7.3	6.3	5.9
IS-PR 479	96.0	85.3	86.3	7.3	6.0	5.9
PINNACLE	94.7	93.0	78.7	4.7	5.0	5.9
SR 4650 (PSRX-3701)	96.3	87.3	78.3	6.7	6.3	5.9
APR 2320	92.7	86.0	83.7	7.0	5.3	5.8
BAR LP 7608	91.3	86.7	80.0	6.0	6.0	5.8
PPG-PR 140	97.7	95.0	86.3	6.0	6.3	5.8
PSRX-4CAGL	94.7	93.0	88.0	7.3	6.3	5.8
BAR LP 10969	93.0	90.7	86.7	5.7	5.3	5.7
BONNEVILLE	86.7	78.3	75.7	6.3	5.7	5.7
JR-178	96.0	92.0	92.3	6.3	6.0	5.7
PST-2ACR	96.0	89.7	83.7	6.3	5.3	5.7
PST-2NKM	99.0	89.7	94.3	6.0	4.7	5.7
CS-PR66	98.7	94.7	92.0	6.7	6.0	5.6
PST-204D	97.7	88.0	87.3	6.3	6.0	5.6
DOMINATOR (PST-2AG4)	94.7	81.3	72.3	6.3	5.3	5.6
ISG-30	97.7	93.7	90.0	8.3	6.3	5.5
FIESTA 4	93.3	95.7	91.7	7.7	7.0	5.4
PALMER V	97.7	91.3	80.3	6.7	6.0	5.4
PST-2BNS	90.0	84.7	75.3	6.0	6.0	5.4
DLF LGD-3026	91.0	78.0	74.7	7.7	4.7	5.3
PICK 4DFHM	89.7	73.3	83.0	6.0	6.0	5.2
PPG-PR 138	93.3	85.0	81.7	6.7	6.3	5.2
ISG-36	94.7	87.3	79.3	8.7	4.0	5.1
JR-192	88.3	80.0	73.3	6.3	6.3	5.1
EVOLUTION (S85)	88.3	78.0	81.3	6.7	6.3	5.1
SRX-4MSH	93.0	89.7	88.0	6.0	6.3	5.1
A-35	96.0	87.3	90.7	7.7	6.3	5.0
RAD-PR62	83.3	68.3	73.3	6.3	6.3	4.7
LINN	94.7	84.7	83.0	4.7	3.3	4.1
DLF LGT 4182	86.7	73.3	68.3	7.7	4.7	3.9
LSD VALUE	12.9	25.2	48.7	1.1	1.6	1.7
C.V. (%)	4.6	9.7	13.2	10.0	13.7	13.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 600 LBS./ACRE.

TABLE 18. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT GAINESVILLE (OVERSEEDING AT UNIVERSITY OF FLORIDA G. C.), FL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	PERCENT COVER OF BERMUDAGRASS IN FALL				PERCENT COVER OF OVERSEEDING GRASS				QUALITY IN FALL	
NAME	11/8/10	11/18/10	11/29/10	12/10/10	11/8/10	11/18/10	11/29/10	12/10/10	11/12/10	11/29/10
PPG-PR 134	99	70.0	41.7	33.3	5.7	30.0	58.3	66.7	8.0	8.0
IS-PR 489	99	70.0	43.3	33.3	7.3	30.0	56.7	66.7	7.3	8.0
MACH I	99	78.3	50.0	31.7	10.7	21.7	50.0	68.3	6.7	7.0
BAR LP 10972	99	76.7	46.7	30.0	6.7	23.3	53.3	70.0	7.3	8.0
BONNEVILLE	99	75.0	41.7	33.3	6.3	25.0	58.3	66.7	7.3	7.0
IS-PR 491	99	75.0	53.3	33.3	5.7	25.0	46.7	66.7	6.7	7.3
KARMA (PICK 10401)	99	71.7	43.3	38.3	11.7	28.3	56.7	61.7	7.3	7.7
PST-2BNS	99	76.7	41.7	36.7	10.0	23.3	58.3	63.3	7.7	7.7
RAD-PR55R	99	75.0	46.7	31.7	10.7	25.0	53.3	68.3	6.7	7.3
RAD-PR62	99	76.7	46.7	33.3	5.7	23.3	53.3	66.7	6.7	7.0
SRX-4MSH	99	75.0	45.0	35.0	14.0	25.0	55.0	65.0	6.7	7.3
A-35	99	66.7	43.3	35.0	7.3	33.3	56.7	65.0	7.3	7.3
BAR LP 10969	99	70.0	45.0	30.0	7.3	30.0	55.0	70.0	7.3	7.7
BAR LP 10970	99	75.0	48.3	36.7	9.0	25.0	51.7	63.3	7.0	7.3
PALMER V	99	61.7	40.0	38.3	16.7	38.3	60.0	61.7	7.0	7.0
PPG-PR 133	99	70.0	45.0	30.0	12.3	30.0	55.0	70.0	7.3	7.3
PPG-PR 140	99	76.7	43.3	33.3	6.7	23.3	56.7	66.7	7.3	7.3
PRX-4GM1	99	71.7	48.3	31.7	12.3	28.3	51.7	68.3	6.7	7.3
SIENNA	99	80.0	45.0	30.0	15.7	20.0	55.0	70.0	7.3	8.0
ALLANTE	99	73.3	48.3	43.3	6.7	26.7	51.7	56.7	7.7	7.7
APR 2320	99	83.3	50.0	33.3	6.3	16.7	50.0	66.7	7.0	7.0
CL 307	99	78.3	50.0	38.3	10.0	21.7	50.0	61.7	8.0	7.7
CS-20	99	73.3	45.0	36.7	6.7	26.7	55.0	63.3	6.7	7.3
DLF LGD-3026	99	73.3	48.3	38.3	10.0	26.7	51.7	61.7	7.3	7.7
FIESTA 4	99	76.7	43.3	43.3	8.0	23.3	56.7	56.7	7.0	7.0
SOX FAN (GM3)	99	71.7	46.7	33.3	10.0	28.3	53.3	66.7	6.7	6.7
GO-G37	99	78.3	50.0	33.3	5.7	21.7	50.0	66.7	6.7	7.0
INSIGHT	99	68.3	43.3	35.0	10.0	31.7	56.7	65.0	7.7	7.7
IS-PR 409	99	68.3	40.0	36.7	12.3	31.7	60.0	63.3	7.7	7.3
IS-PR 479	99	78.3	50.0	36.7	5.0	21.7	50.0	63.3	7.0	7.3
IS-PR 487	99	75.0	48.3	40.0	12.3	25.0	51.7	60.0	7.3	7.0
IS-PR 488	99	71.7	55.0	36.7	5.0	28.3	45.0	63.3	7.0	7.7
IS-PR 492	99	70.0	48.3	33.3	8.0	30.0	51.7	66.7	6.7	7.3
ISG-30	99	73.3	48.3	45.0	15.0	26.7	51.7	55.0	7.7	7.7
LTP-PR 135	99	73.3	41.7	43.3	8.3	26.7	58.3	56.7	8.0	8.0
PICK 4DFHM	99	75.0	41.7	33.3	13.3	25.0	58.3	66.7	7.3	7.0
PPG-PR 136	99	76.7	43.3	43.3	8.3	23.3	56.7	56.7	7.0	7.7
PPG-PR 138	99	78.3	45.0	38.3	6.7	21.7	55.0	61.7	7.7	8.0
PPG-PR 142	99	80.0	50.0	46.7	6.3	20.0	50.0	53.3	6.7	7.0
PSRX-4CAGL	99	80.0	51.7	35.0	5.7	20.0	48.3	65.0	6.3	6.7
PST-2K9	99	80.0	48.3	36.7	7.3	20.0	51.7	63.3	7.0	7.3
RIO VISTA	99	71.7	46.7	45.0	11.7	28.3	53.3	55.0	7.7	7.3
UNO	99	70.0	43.3	35.0	13.3	30.0	56.7	65.0	7.3	7.3
APR 2036	99	73.3	45.0	43.3	9.7	26.7	55.0	56.7	7.3	7.7
CS-PR66	99	73.3	46.7	35.0	6.3	26.7	53.3	65.0	7.3	7.3
GO-DHS	99	81.7	50.0	36.7	11.7	18.3	50.0	63.3	7.0	6.7
IS-PR 469	99	80.0	50.0	30.0	7.3	20.0	50.0	70.0	7.0	7.0

TABLE 18. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) AT GAINESVILLE (OVERSEEDING AT UNIVERSITY OF FLORIDA G. C.), FL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	PERCENT COVER OF BERMUDAGRASS IN FALL				PERCENT COVER OF OVERSEEDING GRASS				QUALITY IN FALL	
NAME	11/8/10	11/18/10	11/29/10	12/10/10	11/8/10	11/18/10	11/29/10	12/10/10	11/12/10	11/29/10
ISG-31	99	76.7	41.7	35.0	6.7	23.3	58.3	65.0	7.3	7.3
JR-178	99	78.3	45.0	36.7	8.3	21.7	55.0	63.3	7.3	7.3
LTP-RAE	99	75.0	46.7	43.3	8.3	25.0	53.3	56.7	6.7	6.7
OCTANE	99	68.3	46.7	38.3	10.0	31.7	53.3	61.7	7.3	7.0
PINNACLE	99	71.7	48.3	36.7	10.0	28.3	51.7	63.3	7.3	7.0
PPG-PR 137	99	83.3	46.7	43.3	8.3	16.7	53.3	56.7	7.7	7.3
PPG-PR 165	99	70.0	45.0	43.3	10.7	30.0	55.0	56.7	7.3	7.7
SR 4650 (PSRX-3701)	99	73.3	45.0	43.3	10.7	26.7	55.0	56.7	7.0	7.0
SIDEWAYS (PSRX-S84)	99	76.7	46.7	36.7	6.7	23.3	53.3	63.3	7.3	7.7
PST-204D	99	73.3	41.7	43.3	13.3	26.7	58.3	56.7	7.7	8.0
PST-2MG7	99	76.7	55.0	46.7	5.0	23.3	45.0	53.3	7.3	7.0
PST-2NKM	99	65.0	50.0	36.7	13.3	35.0	50.0	63.3	7.7	7.3
APR 2445	99	75.0	51.7	50.0	6.7	25.0	48.3	50.0	7.3	7.3
BAR LP 7608	99	78.3	48.3	41.7	9.0	21.7	51.7	58.3	7.3	7.0
DLF LGD-3022	99	78.3	48.3	38.3	6.7	21.7	51.7	61.7	7.7	7.7
ISG-36	99	81.7	51.7	40.3	9.0	18.3	48.3	59.7	7.0	7.0
JR-192	99	81.7	58.3	51.7	5.0	18.3	41.7	48.3	6.3	6.7
PPG-PR 143	99	76.7	48.3	43.3	7.3	23.3	51.7	56.7	6.3	6.7
PPG-PR 164	99	78.3	45.0	48.3	8.3	21.7	55.0	51.7	7.0	7.3
PST-2ACR	99	73.3	45.0	40.0	9.0	26.7	55.0	60.0	6.7	7.0
PST-2DR9	99	73.3	43.3	36.7	8.0	26.7	56.7	63.3	7.0	7.0
2NJK	99	81.7	61.7	38.3	8.3	18.3	38.3	61.7	7.0	7.0
BRIGHTSTAR SLT	99	76.7	53.3	38.3	10.7	23.3	46.7	61.7	7.7	7.3
CL 11601	99	70.0	51.7	48.3	14.0	30.0	48.3	51.7	7.0	7.0
IS-PR 463	99	81.7	53.3	40.0	6.7	18.3	46.7	60.0	7.3	7.3
PPG-PR 121	99	71.7	48.3	48.3	8.0	28.3	51.7	51.7	6.7	7.0
PPG-PR 128	99	71.7	53.3	43.3	6.7	28.3	46.7	56.7	7.3	7.0
DOMINATOR (PST-2AG4)	99	78.3	51.7	45.0	5.7	21.7	48.3	55.0	7.3	6.7
MANHATTAN 6 GLR (PST-2MAGS)	99	78.3	46.7	41.7	7.3	21.7	53.3	58.3	7.0	7.0
EVOLUTION (S85)	99	73.3	50.0	45.0	5.7	26.7	50.0	55.0	7.0	6.7
PANGEA GLR (CL 11701)	99	73.3	50.0	48.3	6.7	26.7	50.0	51.7	7.3	8.0
CST	99	73.3	46.7	38.3	8.3	26.7	53.3	61.7	7.7	7.0
DLF LGT 4182	99	80.0	56.7	41.7	8.3	20.0	43.3	58.3	6.3	6.7
GO-PR60	99	83.3	51.7	43.3	6.7	16.7	48.3	56.7	7.0	7.0
PIZZAZZ 2 GLR (PR 909)	99	66.7	46.7	43.3	13.3	33.3	53.3	56.7	6.7	7.0
RINOVO	99	71.7	51.7	55.0	10.7	28.3	48.3	45.0	6.7	7.0
PLAYOFF 2 (PO2)	99	71.7	48.3	48.3	11.7	28.3	51.7	51.7	6.3	7.0
PST-2TQL	99	81.7	55.0	48.3	9.0	18.3	45.0	51.7	7.0	7.0
HAVEN (APR 2038)	99	75.0	55.0	51.7	7.3	25.0	45.0	48.3	7.0	7.0
WICKED (SRX-4RHD)	99	66.7	53.3	50.0	12.3	33.3	46.7	50.0	7.0	7.3
LINN	99	66.7	41.7	43.3	10.7	33.3	58.3	56.7	7.0	7.3
LSD VALUE	0	23.6	27.5	59.0	14.8	23.6	27.5	59.0	2.1	3.1
C.V. (%)	0	9.6	15.0	28.8	49.0	28.3	13.7	18.8	8.9	9.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT GAINESVILLE (OVERSEEDING AT UNIVERSITY OF FLORIDA G. C.), FL 1/

2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	THE RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD											
	COLOR RATINGS			QUALITY RATINGS			DENSITY RATINGS			UNIFORMITY RATINGS		
NAME	12/10/10	12/23/10	1/19/11	12/10/10	12/23/10	1/19/11	12/10/10	12/23/10	1/19/11	12/10/10	12/23/10	1/19/11
PPG-PR 134	7.0	6.3	7.7	8.0	6.3	8.7	8.0	6.0	9.0	7.7	6.0	8.3
IS-PR 489	7.0	7.0	8.0	7.7	6.3	8.7	8.0	6.7	9.0	7.0	6.7	8.7
MACH I	7.7	8.0	9.0	8.0	7.7	8.7	8.0	7.7	9.0	7.3	7.7	8.0
BAR LP 10972	7.7	6.7	8.7	8.0	6.3	8.7	8.0	7.0	9.0	7.7	6.3	8.0
BONNEVILLE	7.3	7.7	8.7	8.0	7.0	8.7	7.7	7.3	9.0	7.7	7.0	9.0
IS-PR 491	7.3	7.7	9.0	7.3	7.0	9.0	7.7	7.3	9.0	7.0	7.0	8.3
KARMA (PICK 10401)	7.0	7.0	7.7	7.7	6.3	8.7	8.0	6.7	9.0	7.7	6.3	8.0
PST-2BNS	7.3	7.3	8.3	7.3	6.3	8.7	7.7	6.7	9.0	7.3	6.3	8.0
RAD-PR55R	7.7	7.7	8.3	7.7	7.3	9.0	7.7	7.0	9.0	7.7	7.0	8.3
RAD-PR62	7.3	8.0	8.3	7.7	7.3	9.0	8.0	7.0	9.0	7.7	7.0	7.7
SRX-4MSH	7.0	7.0	8.3	7.7	7.3	8.7	8.0	7.0	8.7	7.3	7.0	7.7
A-35	7.7	7.3	8.7	7.3	7.3	8.3	8.0	7.0	9.0	7.3	7.3	8.7
BAR LP 10969	7.0	6.3	8.3	7.3	6.0	8.7	7.7	6.3	9.0	7.3	6.3	8.0
BAR LP 10970	7.3	7.0	8.0	7.7	6.7	8.3	7.7	6.3	8.7	6.7	6.3	8.0
PALMER V	7.0	7.3	8.3	7.3	7.3	8.7	7.7	7.7	9.0	7.3	7.3	8.3
PPG-PR 133	6.3	6.0	8.0	7.3	6.0	8.3	7.7	6.3	9.0	6.7	6.0	8.3
PPG-PR 140	7.3	7.0	8.3	8.0	6.3	8.3	7.7	6.0	8.7	7.3	6.0	8.0
PRX-4GM1	7.7	7.3	8.3	7.3	7.3	8.7	8.0	7.3	9.0	7.7	7.3	8.3
SIENNA	7.0	6.7	8.7	7.7	5.7	8.7	7.7	6.3	9.0	7.0	6.3	8.7
ALLANTE	7.0	5.7	8.0	7.3	5.3	8.7	8.0	5.3	8.7	7.0	4.3	8.7
APR 2320	7.3	6.7	8.3	7.7	6.7	8.3	8.0	6.3	8.3	7.3	6.0	8.0
CL 307	6.7	5.0	7.3	7.7	5.3	8.3	8.0	5.0	8.7	7.0	4.3	8.0
CS-20	7.3	6.7	8.7	7.3	6.3	8.0	7.3	6.7	9.0	6.7	6.3	7.0
DLF LGD-3026	7.3	6.3	8.3	7.3	6.0	8.0	7.3	6.3	9.0	7.3	5.3	8.0
FIESTA 4	6.7	6.3	8.7	7.0	6.3	9.0	7.3	6.7	9.0	6.3	6.3	8.3
SOX FAN (GM3)	7.3	7.3	8.7	7.3	7.3	8.7	7.3	7.7	9.0	7.7	7.3	8.7
GO-G37	7.7	7.0	8.7	7.3	6.7	8.7	7.3	7.0	9.0	7.3	7.0	7.3
INSIGHT	7.3	7.0	8.3	7.7	7.0	8.7	8.0	7.0	9.0	7.3	6.7	8.7
IS-PR 409	7.0	7.0	7.7	7.7	6.0	8.3	8.0	6.7	9.0	7.7	6.7	8.0
IS-PR 479	7.3	7.0	8.7	7.7	6.7	8.3	8.0	7.0	8.7	7.3	6.3	8.0
IS-PR 487	6.7	6.7	8.3	7.0	6.0	9.0	7.7	6.3	9.0	6.3	5.7	8.3
IS-PR 488	7.0	6.3	8.0	7.3	6.3	8.7	8.0	6.3	9.0	7.3	5.7	7.7
IS-PR 492	7.0	7.3	8.7	7.0	6.7	9.0	7.3	7.7	9.0	6.7	7.3	8.3
ISG-30	7.3	6.7	8.7	7.3	6.3	7.7	8.0	6.3	8.7	7.0	5.7	7.3
LTP-PR 135	7.0	6.3	7.7	8.0	6.0	8.3	8.0	6.7	9.0	7.3	5.7	7.7
PICK 4DFHM	6.7	7.0	8.0	7.7	6.7	8.0	8.0	7.3	9.0	7.7	6.7	8.0
PPG-PR 136	6.7	6.0	8.0	7.7	6.0	8.0	8.0	6.0	8.7	6.7	5.7	7.7
PPG-PR 138	7.0	6.3	7.3	7.7	6.0	8.0	8.0	6.7	8.7	7.3	5.7	7.3
PPG-PR 142	6.7	7.0	9.0	7.3	6.7	9.0	7.0	6.7	9.0	6.3	6.3	8.7
PSRX-4CAGL	7.7	7.7	9.0	7.3	6.7	9.0	7.3	7.0	9.0	7.3	7.7	8.7
PST-2K9	7.0	6.7	7.7	7.3	6.3	9.0	7.7	6.0	9.0	6.7	5.7	8.7
RIO VISTA	6.0	6.3	8.0	7.3	6.0	8.0	8.0	6.3	9.0	6.7	6.0	8.0
UNO	6.7	7.0	8.7	7.3	6.7	8.7	7.3	6.7	9.0	7.0	6.7	8.3
APR 2036	7.3	6.7	8.3	7.0	5.7	8.3	8.3	6.0	9.0	7.7	5.7	8.0
CS-PR66	7.3	6.7	7.7	7.7	6.7	7.7	7.3	6.3	9.0	7.3	6.7	7.3
GO-DHS	7.7	7.3	9.0	7.3	7.0	8.3	8.0	7.0	9.0	7.3	7.3	7.7
IS-PR 469	7.3	6.3	8.0	7.7	6.3	8.7	7.7	6.3	9.0	7.3	6.3	8.0

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT GAINESVILLE (OVERSEEDING AT UNIVERSITY OF FLORIDA G. C.), FL 1/
2011 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

	THE RATINGS FOR OVERSEEDING GRASS IN WINTER PERIOD											
	COLOR RATINGS			QUALITY RATINGS			DENSITY RATINGS			UNIFORMITY RATINGS		
NAME	12/10/10	12/23/10	1/19/11	12/10/10	12/23/10	1/19/11	12/10/10	12/23/10	1/19/11	12/10/10	12/23/10	1/19/11
ISG-31	7.3	7.0	8.3	7.7	6.7	8.0	7.7	7.0	8.7	7.3	7.0	7.7
JR-178	7.0	6.0	7.7	7.3	6.0	8.0	7.7	5.7	8.7	7.3	5.7	7.7
LTP-RAE	7.0	6.3	7.7	7.0	6.3	8.3	7.0	6.3	8.3	6.7	6.0	8.7
OCTANE	6.7	7.0	7.7	7.3	6.7	8.0	7.7	7.3	8.7	7.3	6.7	7.3
PINNACLE	6.3	5.7	6.7	7.7	6.0	8.0	7.7	6.0	8.3	6.7	5.0	8.0
PPG-PR 137	6.7	6.3	7.7	7.7	6.3	7.7	7.7	6.3	8.0	7.3	5.7	7.3
PPG-PR 165	6.7	6.3	8.0	7.0	6.3	8.3	7.7	6.3	9.0	6.3	6.7	8.0
SR 4650 (PSRX-3701)	7.0	6.7	8.7	7.0	7.0	8.7	7.7	7.0	8.7	6.3	7.0	8.7
SIDEWAYS (PSRX-S84)	7.3	6.0	7.7	7.3	6.0	8.3	7.7	6.0	8.3	7.3	5.3	7.7
PST-204D	6.7	6.0	7.0	7.3	6.0	8.0	8.0	6.0	8.7	7.0	5.7	7.3
PST-2MG7	7.0	6.3	8.0	7.3	6.3	7.7	7.7	6.3	8.7	6.7	6.3	7.0
PST-2NKM	6.7	6.7	7.0	7.0	6.0	8.0	7.7	6.3	8.7	7.0	5.0	7.7
APR 2445	6.0	6.0	8.3	6.3	5.7	8.7	7.0	5.7	9.0	6.0	4.7	7.3
BAR LP 7608	6.7	6.0	7.0	7.7	6.0	8.0	8.0	6.0	8.3	7.3	5.3	8.0
DLF LGD-3022	7.0	6.0	7.3	7.3	5.3	7.3	7.7	5.0	8.3	7.0	5.0	7.3
ISG-36	7.3	6.7	8.0	7.0	6.3	8.3	7.7	6.7	8.7	6.7	6.3	8.0
JR-192	7.0	6.3	7.7	6.7	6.0	8.3	6.7	6.3	8.7	6.0	5.7	7.3
PPG-PR 143	6.3	7.0	8.7	6.7	6.7	9.0	6.7	6.0	9.0	6.0	6.0	8.7
PPG-PR 164	6.0	5.7	7.7	7.0	6.0	8.3	7.3	6.3	9.0	6.0	5.7	8.0
PST-2ACR	6.7	6.7	8.0	6.7	6.3	8.7	7.7	6.3	8.7	6.7	5.7	8.0
PST-2DR9	7.0	6.3	7.7	7.0	6.0	8.0	7.7	6.3	8.7	6.7	6.0	7.7
2NJK	6.7	6.0	7.7	7.3	6.0	8.0	7.7	5.3	8.0	6.7	5.3	7.7
BRIGHTSTAR SLT	6.7	6.0	7.3	7.3	5.7	8.7	7.7	5.7	8.7	7.3	5.3	8.0
CL 11601	6.0	6.3	7.3	6.3	5.3	8.0	6.7	6.0	8.7	6.3	4.7	7.7
IS-PR 463	6.3	5.3	7.0	7.3	5.3	8.0	8.0	5.3	8.0	7.0	4.7	7.3
PPG-PR 121	6.3	6.0	8.7	6.3	6.3	8.7	7.0	6.3	9.0	6.3	6.0	8.0
PPG-PR 128	6.3	5.7	8.0	6.7	5.7	8.7	7.3	6.0	9.0	6.7	5.7	8.0
DOMINATOR (PST-2AG4)	7.3	6.7	8.3	7.0	6.3	8.0	7.7	6.7	8.3	6.0	6.7	8.3
MANHATTAN 6 GLR (PST-2MAGS)	7.0	6.0	8.7	7.0	5.7	9.0	7.3	5.3	9.0	6.3	5.7	8.3
EVOLUTION (S85)	6.3	6.0	8.7	6.3	5.3	8.3	6.3	6.3	8.7	6.3	5.7	8.7
PANGEA GLR (CL 11701)	6.7	6.0	8.0	6.7	5.3	7.3	7.7	5.7	8.7	6.7	5.3	7.3
CST	6.3	5.3	7.3	7.0	5.0	7.7	7.3	5.0	8.7	6.7	5.0	7.3
DLF LGT 4182	7.0	6.7	7.3	7.0	6.3	7.7	7.7	6.0	8.3	6.3	6.0	6.7
GO-PR60	6.7	6.7	7.7	7.0	6.0	8.0	7.7	5.7	8.3	6.7	5.3	8.0
PIZZAZZ 2 GLR (PR 909)	6.7	6.7	8.7	6.7	6.0	8.7	7.0	6.3	8.7	6.7	5.3	8.3
RINOVO	5.7	6.3	8.3	6.3	6.0	8.3	6.3	6.0	8.7	6.3	5.7	8.0
PLAYOFF 2 (P02)	6.0	6.0	8.3	6.3	6.0	8.0	7.0	5.7	8.7	5.7	5.7	7.7
PST-2TQL	7.0	6.3	7.7	7.3	5.7	8.0	7.7	6.0	8.7	6.7	5.3	7.7
HAVEN (APR 2038)	6.0	5.0	8.3	6.0	5.0	8.0	7.0	5.3	8.7	6.0	5.0	7.3
WICKED (SRX-4RHD)	5.7	5.0	7.7	6.3	4.7	7.7	7.0	5.0	8.3	5.7	4.3	7.0
LINN	6.0	5.0	5.7	6.3	5.0	7.7	7.7	5.3	7.3	7.3	4.0	8.0
LSD VALUE	4.2	6.0	1.7	5.9	7.5	3.5	3.7	6.8	1.7	5.2	9.1	2.4
C.V. (%)	13.0	18.9	9.5	13.7	20.6	9.2	10.1	20.1	5.7	14.6	27.5	9.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT GAINESVILLE (OVERSEEDING AT UNIVERSITY OF FLORIDA G. C.), FL 1/

2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

THE RATINGS FOR OVERSEEDING GRASS IN SPRING/SUMMER TRANSITION PERIOD

	COLOR RATINGS			QUALITY RATINGS			DENSITY RATINGS			UNIFORMITY RATINGS			QUALITY
NAME	2/18/11	3/15/11	4/13/11	2/18/11	3/15/11	4/13/11	2/18/11	3/15/11	4/13/11	2/18/11	3/15/11	4/13/11	MEAN
PPG-PR 134	8.3	7.3	7.0	8.3	8.3	8.0	8.7	6.0	2.7	7.7	7.0	6.7	8.0
IS-PR 489	7.7	7.7	7.3	8.7	8.3	8.0	9.0	6.7	3.7	7.7	7.7	7.3	7.9
MACH I	8.7	8.0	7.7	8.7	8.3	8.0	8.7	7.0	3.7	7.7	7.3	7.0	7.9
BAR LP 10972	8.0	8.0	7.7	8.3	8.0	8.0	9.0	6.7	3.7	8.3	6.3	7.3	7.8
BONNEVILLE	7.3	7.7	7.3	8.0	8.0	8.0	8.7	7.0	3.3	8.3	7.0	7.0	7.8
IS-PR 491	8.3	8.0	7.7	8.7	8.3	8.0	9.0	7.7	4.0	8.0	7.7	7.3	7.8
KARMA (PICK 10401)	8.0	7.0	7.0	8.7	8.0	7.7	9.0	6.3	2.7	8.3	6.0	7.0	7.8
PST-2BNS	7.7	7.3	6.7	8.3	8.3	7.7	9.0	7.0	2.7	7.7	7.3	6.7	7.8
RAD-PR55R	8.3	8.0	8.0	8.7	8.0	7.7	9.0	8.0	3.7	7.7	6.7	6.7	7.8
RAD-PR62	8.0	7.7	8.0	8.7	8.0	8.0	8.7	7.0	3.3	7.7	7.3	7.0	7.8
SRX-4MSH	7.7	7.0	7.0	8.7	7.7	8.0	9.0	6.0	2.7	8.3	7.0	7.0	7.8
A-35	9.0	7.7	7.3	8.7	7.7	7.3	9.0	7.0	3.3	8.0	6.3	6.3	7.7
BAR LP 10969	7.3	7.7	7.7	8.7	8.0	8.0	9.0	6.3	4.0	8.0	6.7	7.0	7.7
BAR LP 10970	7.7	7.3	7.0	8.3	8.0	8.0	9.0	6.7	2.7	7.7	7.0	6.3	7.7
PALMER V	8.0	7.7	7.3	8.7	8.0	7.3	9.0	6.7	3.7	8.3	7.0	5.7	7.7
PPG-PR 133	7.7	7.0	7.3	8.7	8.3	8.0	9.0	6.0	3.7	7.7	7.0	6.3	7.7
PPG-PR 140	8.3	7.3	7.0	8.0	8.3	7.7	9.0	6.3	3.0	7.3	6.7	6.3	7.7
PRX-4GM1	8.3	7.7	7.3	8.7	7.7	8.0	9.0	6.7	3.3	8.3	7.3	7.0	7.7
SIENNA	7.7	8.0	7.3	8.0	8.3	8.0	9.0	7.0	3.3	8.0	7.0	7.0	7.7
ALLANTE	7.7	7.7	7.0	8.3	8.0	8.0	9.0	6.7	2.7	8.0	6.3	6.7	7.6
APR 2320	8.0	7.3	7.3	8.3	8.0	7.7	9.0	6.3	3.0	7.3	6.3	6.3	7.6
CL 307	8.0	7.3	6.7	8.3	8.0	7.7	9.0	5.7	2.7	8.3	7.0	6.7	7.6
CS-20	9.0	8.0	7.0	9.0	8.0	8.0	9.0	6.0	3.0	8.0	5.7	6.0	7.6
DLF LGD-3026	8.7	8.7	7.3	8.7	8.0	8.0	9.0	6.7	4.0	8.3	6.7	6.0	7.6
FIESTA 4	8.3	8.0	7.7	9.0	7.7	7.7	9.0	7.0	3.7	8.0	7.0	6.7	7.6
SOX FAN (GM3)	8.0	7.7	7.0	8.7	7.7	7.7	9.0	7.3	3.3	8.0	7.0	7.3	7.6
GO-G37	8.7	7.7	7.3	8.7	7.7	8.0	8.7	6.3	3.3	7.7	5.7	6.7	7.6
INSIGHT	7.3	6.7	6.7	8.3	6.3	7.3	9.0	5.7	2.3	8.3	5.3	6.3	7.6
IS-PR 409	7.7	7.3	7.0	8.0	8.0	7.7	9.0	6.3	3.3	7.7	6.7	6.0	7.6
IS-PR 479	8.3	8.0	7.7	8.7	7.7	7.7	9.0	7.0	3.7	7.7	6.3	6.3	7.6
IS-PR 487	7.3	8.0	7.0	8.3	8.3	7.7	9.0	7.0	3.0	8.0	7.3	6.7	7.6
IS-PR 488	8.7	7.7	6.7	9.0	8.0	7.0	9.0	6.0	3.0	8.0	6.0	7.3	7.6
IS-PR 492	8.0	7.7	7.7	8.3	8.0	8.0	8.7	6.7	3.7	8.0	6.7	7.7	7.6
ISG-30	8.3	8.0	6.7	8.7	8.0	7.3	9.0	6.7	2.7	8.0	6.0	5.7	7.6
LTP-PR 135	7.7	6.0	6.3	8.7	6.7	7.0	9.0	4.3	2.0	9.0	4.7	7.0	7.6
PICK 4DFHM	7.7	7.0	7.3	8.7	7.7	8.0	9.0	5.7	3.0	8.3	7.0	6.7	7.6
PPG-PR 136	8.3	7.3	6.7	8.7	8.0	8.0	9.0	5.0	2.7	8.0	6.7	6.7	7.6
PPG-PR 138	8.0	6.7	6.3	8.3	8.0	7.3	9.0	4.3	2.3	7.7	6.3	6.3	7.6
PPG-PR 142	7.7	8.0	7.7	8.3	8.0	7.7	9.0	6.0	4.0	8.0	7.0	7.0	7.6
PSRX-4CAGL	8.7	8.0	7.7	8.7	8.0	8.0	9.0	7.3	3.7	7.7	6.7	6.7	7.6
PST-2K9	7.7	7.7	7.0	8.0	8.0	8.0	8.7	6.7	3.3	8.0	6.7	7.0	7.6
RIO VISTA	7.3	7.3	7.0	8.3	8.0	8.0	9.0	6.3	3.0	8.0	6.7	6.3	7.6
UNO	7.7	8.0	7.7	8.0	8.0	7.7	9.0	7.0	3.7	8.0	7.0	6.7	7.6
APR 2036	7.7	7.7	7.3	8.3	8.0	7.7	8.7	5.7	3.3	7.7	7.0	7.0	7.5
CS-PR66	8.3	7.3	7.0	8.3	7.7	7.7	9.0	5.7	3.0	7.7	6.3	6.7	7.5
GO-DHS	8.7	7.7	7.0	8.7	7.3	7.7	9.0	6.7	3.3	8.3	5.7	6.0	7.5
IS-PR 469	8.3	7.3	7.0	8.3	7.7	7.3	9.0	6.7	3.0	7.3	7.0	6.3	7.5

TABLE 18. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS

AT GAINESVILLE (OVERSEEDING AT UNIVERSITY OF FLORIDA G. C.), FL 1/

2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

THE RATINGS FOR OVERSEEDING GRASS IN SPRING/SUMMER TRANSITION PERIOD

	COLOR RATINGS			QUALITY RATINGS			DENSITY RATINGS			UNIFORMITY RATINGS			QUALITY
NAME	2/18/11	3/15/11	4/13/11	2/18/11	3/15/11	4/13/11	2/18/11	3/15/11	4/13/11	2/18/11	3/15/11	4/13/11	MEAN
ISG-31	9.0	7.7	7.3	8.3	7.7	7.3	8.7	6.3	3.0	7.3	6.0	6.3	7.5
JR-178	8.0	7.3	6.7	8.7	8.0	7.7	9.0	6.0	2.7	8.3	6.7	6.0	7.5
LTP-RAE	7.3	7.7	7.3	8.3	8.3	8.0	9.0	6.3	3.3	8.3	6.7	6.3	7.5
OCTANE	7.7	6.7	7.3	8.3	7.7	7.7	9.0	5.7	3.3	8.7	6.3	7.0	7.5
PINNACLE	7.0	6.3	6.3	8.7	8.0	7.7	9.0	5.3	1.7	8.0	7.0	7.0	7.5
PPG-PR 137	7.7	6.7	6.7	8.3	7.3	7.3	8.7	5.0	2.3	8.0	6.7	6.7	7.5
PPG-PR 165	7.0	7.0	6.7	8.3	7.3	7.3	9.0	6.0	2.7	8.3	6.3	6.7	7.5
SR 4650 (PSRX-3701)	8.0	7.3	7.0	8.7	7.3	7.3	9.0	6.0	2.7	8.3	6.7	7.0	7.5
SIDEWAYS (PSRX-S84)	7.3	7.7	6.7	8.3	7.7	7.7	9.0	6.0	3.0	7.7	6.7	7.0	7.5
PST-204D	7.3	7.0	7.0	8.3	7.7	7.3	9.0	5.7	3.0	8.0	6.7	6.7	7.5
PST-2MG7	8.3	7.3	6.7	8.7	8.0	7.3	9.0	6.3	2.7	8.3	6.0	6.3	7.5
PST-2NKM	7.7	7.7	6.7	8.3	8.0	7.7	9.0	7.0	3.0	8.0	7.0	6.3	7.5
APR 2445	8.3	7.3	7.3	8.7	7.7	7.3	9.0	6.3	3.3	7.3	6.7	6.0	7.4
BAR LP 7608	7.3	6.3	6.7	8.3	7.3	7.7	9.0	5.0	2.7	8.3	6.0	6.7	7.4
DLF LGD-3022	7.3	6.7	6.3	8.3	8.0	7.3	9.0	5.3	2.3	8.3	6.3	6.3	7.4
ISG-36	9.0	7.0	6.7	8.7	7.3	7.7	9.0	6.0	3.0	8.0	5.0	6.3	7.4
JR-192	7.7	7.3	7.0	8.7	8.7	8.0	9.0	6.3	2.7	8.3	7.0	7.3	7.4
PPG-PR 143	8.0	8.3	7.0	8.3	8.3	7.0	9.0	6.7	3.0	8.0	7.3	7.0	7.4
PPG-PR 164	8.0	7.0	6.7	8.3	8.0	7.3	9.0	5.3	2.7	8.3	5.7	6.3	7.4
PST-2ACR	7.7	7.7	7.0	8.0	8.0	8.0	9.0	6.3	3.0	8.0	7.0	7.3	7.4
PST-2DR9	7.7	7.7	7.0	8.3	8.3	7.7	8.7	6.7	3.0	8.0	7.0	6.0	7.4
2NJK	7.7	7.0	7.3	8.3	7.3	7.7	9.0	6.0	3.0	8.0	6.0	7.0	7.3
BRIGHTSTAR SLT	7.0	7.0	6.7	8.3	6.3	7.3	9.0	5.3	2.7	7.7	6.0	6.7	7.3
CL 11601	8.0	7.3	7.0	8.3	8.0	8.0	8.7	6.3	3.0	7.3	7.3	7.3	7.3
IS-PR 463	7.7	6.3	6.7	8.3	7.7	7.3	9.0	5.7	2.3	8.7	6.3	6.0	7.3
PPG-PR 121	7.7	7.3	7.3	8.0	7.7	7.3	8.7	6.3	3.7	8.0	7.0	7.0	7.3
PPG-PR 128	7.7	6.7	7.0	8.3	6.7	7.7	8.7	5.7	3.3	7.7	6.0	7.0	7.3
DOMINATOR (PST-2AG4)	7.7	7.3	6.3	8.7	7.0	7.0	9.0	5.7	2.7	7.3	6.0	6.7	7.3
MANHATTAN 6 GLR (PST-2MAGS)	7.7	7.3	6.7	8.3	7.0	7.3	9.0	6.0	2.3	8.0	6.3	7.3	7.3
EVOLUTION (S85)	7.7	7.7	7.7	8.7	8.3	7.3	9.0	6.7	3.3	7.7	7.3	7.0	7.3
PANGEA GLR (CL 11701)	7.3	7.0	7.0	8.3	7.3	7.0	9.0	6.0	2.7	7.7	6.3	6.0	7.2
CST	7.3	7.3	7.0	8.0	8.0	7.3	9.0	6.0	2.7	7.7	6.7	5.7	7.2
DLF LGT 4182	8.0	6.3	6.7	8.3	7.3	7.7	8.7	5.0	3.0	7.0	5.3	6.3	7.2
GO-PR60	8.3	7.0	6.7	8.7	6.7	7.3	9.0	6.0	3.0	8.3	5.7	6.3	7.2
PIZZAZZ 2 GLR (PR 909)	8.0	8.0	7.7	8.3	7.3	7.0	9.0	7.3	3.0	7.7	7.3	7.0	7.2
RINOVO	7.3	8.3	7.7	8.0	7.3	7.7	8.3	7.7	4.0	7.3	8.0	7.0	7.2
PLAYOFF 2 (P02)	8.0	8.3	7.3	8.0	7.7	7.3	9.0	7.3	3.3	7.0	8.0	6.3	7.1
PST-2TQL	8.3	6.3	6.3	8.3	6.7	7.0	9.0	5.3	1.7	7.7	6.0	6.7	7.1
HAVEN (APR 2038)	7.0	7.3	6.7	8.3	7.3	7.3	9.0	4.7	2.7	8.0	6.0	6.3	7.0
WICKED (SRX-4RHD)	7.7	8.0	7.0	8.3	7.7	7.0	9.0	6.3	3.3	7.7	6.7	6.3	7.0
LINN	5.0	5.3	6.0	6.7	8.0	7.0	7.7	7.0	3.0	8.3	7.7	8.0	6.9
LSD VALUE	0.9	2.4	2.0	2.4	4.5	2.9	0.5	4.4	1.8	2.2	4.3	3.0	2.2
C.V. (%)	7.0	11.4	9.2	6.5	11.6	8.0	2.8	19.0	23.0	7.7	16.2	11.7	5.6

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

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

3/ THE OVERSEEDING RATE OF ALL ENTRIES WAS 400 LBS./ACRE.

TABLE 19. PERCENT GREEN COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT BLACKSBURG (DROUGHT STUDY), VA 2/ 3/ 4/
2011 DATA

	IRRIGATION WITHHELD			IRRIGATION WITHHELD		IRRIGATION APPLIED	
NAME	6_27	7_6	7_11	7_13	7_24	8_6	9_6
IS-PR 489	84.3	48.0	34.0	29.3	10.0	48.3	81.3
PST-2DR9	84.0	49.3	43.0	38.7	27.3	44.7	80.7
SIDEWAYS (PSRX-S84)	85.3	48.3	39.0	32.0	17.7	50.7	80.0
WICKED (SRX-4RHD)	81.7	39.0	30.3	28.0	18.3	54.0	78.0
PPG-PR 121	84.3	39.3	27.0	21.3	8.3	44.3	76.7
SRX-4MSH	80.3	38.0	29.7	26.7	17.0	36.7	76.7
SR 4650 (PSRX-3701)	89.3	57.7	51.3	44.0	28.7	47.7	76.3
DLF LGD-3022	81.7	36.3	25.3	21.0	9.3	55.7	75.7
PST-2NKM	84.3	47.0	36.7	30.7	18.0	38.0	75.0
PST-2BNS	86.3	44.7	33.3	30.7	18.7	56.3	74.3
LTP-PR 135	85.3	40.0	26.3	21.7	5.3	50.7	73.0
IS-PR 469	81.0	39.0	26.7	22.7	12.0	36.3	72.0
BONNEVILLE	80.0	42.3	33.7	30.3	20.3	45.3	70.7
PPG-PR 128	80.0	34.7	22.3	19.0	9.0	48.0	70.7
IS-PR 488	87.0	52.3	44.7	39.0	25.3	50.7	70.0
PLAYOFF 2 (P02)	78.0	41.3	34.3	30.3	18.3	42.3	70.0
PPG-PR 134	84.3	44.3	34.0	31.3	20.0	56.0	70.0
PST-2K9	84.3	48.3	45.0	41.7	35.0	49.7	70.0
APR 2445	79.0	36.3	29.3	25.7	22.0	58.7	69.7
IS-PR 491	84.7	48.3	37.7	33.0	19.7	37.0	69.7
IS-PR 409	81.3	39.0	30.3	26.3	16.0	34.0	69.3
PPG-PR 133	84.3	41.3	28.7	24.7	11.0	43.7	69.3
IS-PR 463	82.3	36.7	30.0	26.7	14.0	38.7	69.0
GO-PR60	76.0	34.0	27.3	24.0	19.3	39.0	68.7
PSRX-4CAGL	79.0	37.0	24.7	21.3	8.7	30.3	68.3
UNO	82.3	43.0	37.0	32.0	21.0	47.3	68.3
DLF LGD-3026	81.3	35.3	28.7	26.7	16.3	47.3	67.7
PICK 4DFHM	78.3	38.0	29.0	25.3	15.0	45.3	67.7
JR-178	84.7	41.7	27.0	22.0	10.7	37.7	67.0
IS-PR 492	85.0	43.3	27.0	22.3	8.7	33.3	66.7
ISG-30	74.3	32.3	25.0	20.0	11.0	36.0	66.3
PST-2MG7	77.3	43.3	38.0	33.3	25.3	37.7	65.7
PIZZAZZ 2 GLR (PR 909)	80.0	33.0	22.0	20.0	7.0	51.3	65.0
CL 11601	84.7	48.3	42.7	38.0	23.3	45.7	64.7
PPG-PR 164	86.7	48.3	37.0	31.3	16.0	52.3	64.7
DOMINATOR (PST-2AG4)	80.7	36.3	28.7	23.7	15.0	31.0	63.0
EVOLUTION (S85)	76.0	32.3	27.0	24.7	20.7	48.3	61.3
OCTANE	85.3	43.7	36.0	33.3	18.0	44.3	61.0
BAR LP 10969	84.7	49.7	42.7	39.7	25.0	42.7	60.7
SOX FAN (GM3)	84.3	41.7	33.3	28.0	16.0	39.3	60.7
PRX-4GM1	79.7	38.3	28.3	23.7	14.0	29.0	60.0
RINOVO	82.7	45.7	36.7	32.7	19.7	38.3	60.0
PPG-PR 165	85.3	48.3	39.0	36.0	26.3	39.0	59.7
JR-192	82.3	42.3	29.3	22.3	9.7	42.7	59.3
GO-DHS	75.0	30.3	24.3	21.0	14.7	45.3	58.7
BAR LP 10970	77.7	37.7	27.3	24.3	14.7	34.7	58.3
ISG-31	73.7	28.0	19.3	15.7	8.3	33.0	58.3
LTP-RAE	82.7	42.7	33.0	28.3	18.7	42.0	58.0

TABLE 19. PERCENT GREEN COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) AT BLACKSBURG (DROUGHT STUDY), VA 2/ 3/ 4/
2011 DATA

	IRRIGATION WITHHELD			IRRIGATION WITHHELD		IRRIGATION APPLIED	
NAME	6_27	7_6	7_11	7_13	7_24	8_6	9_6
PPG-PR 138	75.3	31.3	21.3	19.3	13.0	30.3	57.7
PST-2ACR	74.7	27.3	20.0	18.0	7.7	36.3	57.7
MACH I	71.0	25.0	20.7	17.3	9.7	27.7	57.3
PPG-PR 143	79.3	36.0	24.7	21.7	9.0	38.0	56.7
RAD-PR62	80.0	41.0	34.3	28.0	17.7	39.7	56.7
PST-204D	81.0	44.7	35.3	30.7	18.0	44.0	56.0
PALMER V	83.0	39.3	31.0	29.3	22.3	38.3	55.3
CL 307	83.3	36.7	25.0	21.7	5.7	41.7	55.0
CS-PR66	79.0	32.3	20.3	15.7	6.7	28.3	55.0
ISG-36	78.7	33.0	26.0	22.3	13.0	32.7	54.3
FIESTA 4	74.0	19.0	10.0	8.0	2.0	27.3	52.7
IS-PR 479	76.3	28.3	18.7	14.7	8.3	29.0	52.3
GO-G37	75.0	28.0	19.7	16.7	9.3	40.0	52.0
PANGEA GLR (CL 11701)	79.0	39.7	33.7	29.7	19.0	40.3	52.0
INSIGHT	87.0	39.0	29.7	27.0	16.7	46.3	50.0
RIO VISTA	81.0	25.0	13.7	12.7	4.3	36.7	50.0
APR 2036	80.0	37.0	26.0	24.7	14.3	43.3	49.7
IS-PR 487	84.3	47.3	38.3	31.0	16.0	39.3	49.0
PPG-PR 137	78.0	30.0	21.0	18.0	4.7	39.0	48.7
PPG-PR 140	80.3	44.7	36.0	35.3	23.0	39.7	48.0
ALLANTE	79.3	27.0	19.0	17.3	10.0	37.0	47.3
MANHATTAN 6 GLR (PST-2MAGS)	75.0	23.7	19.7	16.7	9.7	38.3	47.0
SIENNA	89.3	56.3	49.0	47.0	37.0	46.7	46.7
CST	77.7	23.0	11.3	9.3	2.7	19.0	45.0
PST-2TQL	76.7	36.3	29.7	25.7	18.0	33.0	44.7
CS-20	77.7	31.7	22.0	18.3	10.3	36.0	43.7
LINN	80.7	28.3	21.0	20.0	8.3	46.3	43.7
2NJK	75.3	43.0	39.0	38.0	35.0	44.7	43.3
BRIGHTSTAR SLT	82.0	40.0	29.7	27.0	21.0	34.3	43.3
BAR LP 10972	82.0	43.7	38.7	35.3	22.3	32.0	43.0
HAVEN (APR 2038)	83.3	41.0	32.0	26.3	11.7	28.7	41.7
PPG-PR 136	77.0	26.0	15.0	13.3	6.3	23.3	41.0
APR 2320	78.3	33.7	28.0	25.3	14.3	32.7	40.3
A-35	74.7	24.3	17.0	13.3	7.3	29.3	38.7
PINNACLE	88.0	53.7	38.0	31.3	18.7	41.7	38.7
BAR LP 7608	77.7	25.3	18.3	16.3	6.0	57.7	37.3
DLF LGT 4182	73.3	32.0	29.0	26.0	19.7	38.7	37.0
PPG-PR 142	79.3	33.7	22.7	19.3	11.3	20.0	33.3
KARMA (PICK 10401)	77.3	20.3	14.7	12.0	1.0	13.7	23.3
RAD-PR55R	73.7	26.3	21.0	18.0	10.0	18.7	23.3
LSD VALUE	10.2	27.6	36.3	34.5	33.6	59.5	58.7
C.V. (%)	6.2	30.1	43.0	46.3	74.2	38.3	33.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
3/ DROUGHT WAS IMPOSED USING MOVEABLE RAINOUT SHELTERS TO RESTRICT RAINFALL AND ALSO BY WITHHOLDING IRRIGATION.
4/ DATA WAS COLLECTED USING A DIGITAL CAMERA WITH LIGHT BOX AND IMAGES WERE ANALYZED USING SIGMASCAN SOFTWARE.

TABLE 20. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	IA1	IL1	MA1	MN1	MO1	NE1	NJ2	OR1	MEAN
A-35	8.3	7.7	8.0	9.0	9.0	7.3	9.0	8.0	8.3
ISG-36	8.0	7.7	8.7	8.7	8.3	8.0	8.3	7.7	8.2
CS-20	8.3	7.3	7.3	8.0	8.3	7.7	9.0	8.0	8.0
ISG-30	7.7	7.3	7.7	8.7	7.7	8.0	8.7	7.3	7.9
ISG-31	8.0	7.3	7.3	7.3	7.3	7.3	8.3	7.7	7.6
GO-G37	8.0	7.3	7.3	8.3	6.3	7.3	8.7	7.0	7.5
GO-DHS	7.0	7.0	7.3	8.3	6.0	7.7	8.7	7.3	7.4
RAD-PR55R	7.3	6.3	7.3	8.0	6.3	7.7	8.7	6.7	7.3
PSRX-4CAGL	7.0	7.0	7.0	7.7	6.7	7.0	8.0	7.7	7.3
GO-PR60	7.3	7.0	7.0	7.0	5.7	7.0	8.3	7.7	7.1
IS-PR 479	8.0	7.0	6.3	6.3	7.3	7.0	8.0	7.0	7.1
MACH I	7.3	7.0	7.3	6.7	6.7	7.0	7.7	7.0	7.1
CS-PR66	7.3	6.0	6.7	6.7	7.0	7.3	7.7	7.3	7.0
DLF LGD-3026	6.7	6.3	7.7	6.7	6.0	7.0	8.0	7.3	7.0
IS-PR 491	7.0	6.3	6.3	6.3	7.3	7.0	7.7	7.7	7.0
DLF LGT 4182	6.7	7.0	7.0	6.7	5.7	7.0	8.0	7.0	6.9
IS-PR 469	7.0	6.3	6.0	6.7	7.0	7.0	7.7	7.3	6.9
MANHATTAN 6 GLR (PST-2MAGS)	6.3	6.7	6.3	7.0	7.0	7.0	7.7	7.0	6.9
APR 2320	7.7	6.0	6.3	7.3	6.0	7.0	6.7	7.7	6.8
PANGEA GLR (CL 11701)	6.3	6.3	5.7	6.7	6.0	7.3	8.7	7.0	6.8
IS-PR 492	6.3	6.7	7.0	6.0	6.3	7.0	7.0	7.3	6.7
FIESTA 4	6.3	7.0	6.3	6.7	5.7	7.0	8.0	6.7	6.7
IS-PR 409	6.0	6.3	6.3	6.3	6.3	7.0	7.7	7.7	6.7
APR 2445	7.0	6.0	6.0	6.3	6.3	7.0	7.3	7.3	6.7
PPG-PR 138	7.3	6.3	6.0	7.0	5.7	7.0	7.0	7.0	6.7
APR 2036	6.7	6.3	6.0	6.0	6.7	7.0	7.0	7.3	6.6
RINOVO	6.7	6.0	6.0	7.0	5.7	7.0	7.0	7.7	6.6
IS-PR 463	6.3	6.3	6.0	6.0	6.7	7.0	7.7	7.0	6.6
EVOLUTION (S85)	6.0	6.7	6.3	6.3	6.0	7.3	7.0	7.0	6.6
OCTANE	7.0	6.3	5.7	6.3	6.3	7.0	6.3	7.0	6.5
PPG-PR 136	6.3	6.3	6.3	6.7	4.3	7.3	7.3	7.0	6.5
PPG-PR 137	6.3	6.3	6.0	6.3	6.3	7.0	6.3	7.0	6.5
PST-2MG7	6.0	6.0	6.3	6.3	5.3	7.0	7.7	7.0	6.5
DOMINATOR (PST-2AG4)	6.0	6.7	6.0	5.3	5.7	7.0	7.3	7.3	6.4
PST-2ACR	6.3	6.7	6.3	6.0	5.3	7.0	7.3	6.3	6.4
RAD-PR62	6.7	6.0	6.0	5.7	6.3	7.0	7.0	6.7	6.4
PPG-PR 164	6.3	6.0	5.7	6.3	6.0	7.0	7.0	7.0	6.4
JR-178	6.7	6.3	5.7	5.7	6.3	7.0	6.3	7.0	6.4
PIZZAZZ 2 GLR (PR 909)	6.0	6.0	5.7	6.0	5.7	7.0	7.3	7.3	6.4
BAR LP 10972	6.3	5.7	5.7	6.0	6.3	7.0	7.0	7.0	6.4
LTP-RAE	6.7	6.0	6.0	6.7	5.0	7.0	7.0	6.7	6.4
IS-PR 488	6.7	6.0	6.3	5.3	6.0	7.0	6.3	7.0	6.3
IS-PR 489	6.3	6.0	6.0	5.3	5.0	7.0	7.7	7.3	6.3
PPG-PR 121	6.0	6.0	5.7	5.7	6.0	7.0	6.7	7.7	6.3
SOX FAN (GM3)	6.7	6.3	6.3	6.0	5.0	7.0	6.3	7.0	6.3

TABLE 20 GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2011 DATA

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

NAME	IA1	IL1	MA1	MN1	MO1	NE1	NJ2	OR1	MEAN
WICKED (SRX-4RHD)	6.3	6.0	5.3	5.3	6.3	7.0	6.7	7.7	6.3
PST-2TQL	6.7	6.3	5.7	5.7	5.3	7.0	6.7	7.0	6.3
RIO VISTA	6.3	6.3	6.0	6.3	3.7	7.0	7.3	7.3	6.3
SR 4650 (PSRX-3701)	6.0	6.0	5.7	6.3	5.7	7.0	7.0	6.7	6.3
PALMER V	6.0	6.0	6.3	5.3	6.0	7.0	6.7	7.0	6.3
BAR LP 10970	7.0	5.7	6.0	6.0	5.3	7.0	6.3	6.7	6.3
CL 307	6.0	5.7	6.7	6.0	4.7	7.3	6.7	7.0	6.3
CST	6.3	6.3	6.0	6.7	6.3	7.0	5.0	6.3	6.3
LTP-PR 135	6.7	6.0	5.3	5.3	6.7	7.0	5.7	7.0	6.2
KARMA (PICK 10401)	6.7	6.3	5.3	6.0	5.3	7.0	6.3	6.7	6.2
PPG-PR 134	6.3	6.3	6.0	5.3	5.3	7.0	6.3	7.0	6.2
PPG-PR 143	7.0	6.0	5.7	6.0	5.3	7.0	6.0	6.7	6.2
PRX-4GM1	6.3	6.3	6.0	5.0	5.7	7.0	6.3	7.0	6.2
SRX-4MSH	6.7	6.3	6.3	5.0	6.0	7.0	5.3	7.0	6.2
DLF LGD-3022	6.3	5.7	6.7	6.0	5.3	7.0	5.3	7.0	6.2
PPG-PR 165	6.0	6.0	6.0	5.7	5.0	7.0	6.7	7.0	6.2
SIENNA	7.0	6.3	5.3	5.0	5.7	6.7	6.0	7.3	6.2
UNO	6.3	6.0	6.0	4.7	6.0	7.0	6.3	7.0	6.2
PST-2K9	6.0	6.3	6.0	5.7	5.3	7.0	6.3	6.7	6.2
PST-204D	6.3	6.0	5.3	5.7	5.0	7.0	7.0	6.7	6.1
BONNEVILLE	6.0	6.0	6.0	5.0	5.7	7.0	6.0	7.0	6.1
JR-192	6.7	6.0	5.7	5.3	6.0	7.0	5.3	6.7	6.1
PPG-PR 133	6.0	6.0	5.7	5.0	5.7	7.0	6.3	7.0	6.1
PPG-PR 128	6.0	6.3	6.0	4.7	6.0	7.0	5.0	7.7	6.1
PICK 4DFHM	6.0	6.3	6.0	5.3	6.0	7.0	5.0	6.7	6.0
PPG-PR 140	6.7	6.3	5.7	5.7	5.7	7.0	4.7	6.7	6.0
PPG-PR 142	6.0	6.0	6.0	5.3	6.0	7.0	5.3	6.7	6.0
PST-2BNS	6.3	6.3	5.3	5.0	6.3	7.0	4.7	7.3	6.0
PST-2DR9	6.0	6.0	6.3	5.0	5.0	7.0	6.0	7.0	6.0
PST-2NKM	6.3	6.0	5.7	5.3	5.3	7.0	5.7	7.0	6.0
2NJK	6.0	6.0	5.3	5.7	5.0	7.0	5.7	7.0	6.0
IS-PR 487	6.0	6.0	5.3	5.0	5.3	7.0	5.7	7.3	6.0
PLAYOFF 2 (P02)	6.0	6.3	5.7	4.7	4.7	7.0	6.0	7.0	5.9
CL 11601	6.3	6.0	5.0	5.0	5.0	7.0	6.0	7.0	5.9
SIDEWAYS (PSRX-S84)	6.0	6.0	5.3	4.7	5.3	7.0	6.3	6.7	5.9
BAR LP 10969	6.3	5.7	5.3	4.7	5.7	7.0	5.0	6.3	5.8
HAVEN (APR 2038)	6.0	5.7	5.7	4.3	4.7	7.0	5.0	7.0	5.7
INSIGHT	6.3	5.7	5.3	4.0	5.0	6.7	5.7	6.3	5.6
ALLANTE	6.0	6.3	5.0	4.3	5.0	6.7	5.0	6.3	5.6
BAR LP 7608	6.0	5.0	5.0	4.0	5.7	6.7	4.0	6.3	5.3
BRIGHTSTAR SLT	6.0	5.3	5.0	4.0	4.0	6.7	4.7	6.7	5.3
PINNACLE	5.3	4.3	4.0	2.0	3.0	5.7	1.0	5.7	3.9
LINN	5.0	3.0	3.0	1.0	2.3	5.0	1.0	6.0	3.3
LSD VALUE	0.9	0.7	0.8	1.2	1.4	0.4	1.3	0.8	0.3
C.V. (%)	8.2	7.1	8.6	12.4	14.8	3.6	12.2	6.8	9.5

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 21 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	IL1	MD1	NE1	MEAN
CL 11601	7.3	7.3	4.7	6.4
CS-20	6.0	7.0	6.0	6.3
RINOVO	6.0	7.7	5.3	6.3
A-35	5.7	7.3	5.7	6.2
ISG-36	6.7	7.0	5.0	6.2
LTP-RAE	5.7	7.0	6.0	6.2
PIZZAZZ 2 GLR (PR 909)	5.7	7.7	5.3	6.2
WICKED (SRX-4RHD)	5.7	7.3	5.7	6.2
PANGEA GLR (CL 11701)	6.0	7.3	5.3	6.2
SRX-4MSH	5.7	6.7	6.0	6.1
DLF LGD-3022	6.0	7.0	5.3	6.1
DLF LGT 4182	5.3	7.3	5.7	6.1
GO-PR60	5.7	7.3	5.3	6.1
IS-PR 479	5.0	7.3	6.0	6.1
IS-PR 489	6.0	7.3	5.0	6.1
JR-178	5.3	7.7	5.3	6.1
CST	5.0	7.3	5.7	6.0
IS-PR 469	5.0	6.7	6.3	6.0
IS-PR 492	6.0	7.3	4.7	6.0
OCTANE	5.0	8.0	5.0	6.0
PPG-PR 133	6.0	7.3	4.7	6.0
PPG-PR 143	5.3	8.0	4.7	6.0
PST-2ACR	6.3	7.0	4.7	6.0
RAD-PR55R	5.3	7.7	5.0	6.0
RIO VISTA	5.0	8.0	5.0	6.0
SOX FAN (GM3)	5.7	7.3	5.0	6.0
APR 2320	5.3	6.7	5.7	5.9
IS-PR 409	5.0	7.0	5.7	5.9
MACH I	5.3	7.7	4.7	5.9
PPG-PR 140	5.7	7.3	4.7	5.9
PPG-PR 164	6.3	6.7	4.7	5.9
PSRX-4CAGL	4.7	7.3	5.7	5.9
FIESTA 4	5.0	7.3	5.3	5.9
HAVEN (APR 2038)	5.3	7.0	5.3	5.9
IS-PR 488	6.0	7.3	4.3	5.9
PPG-PR 136	5.3	7.0	5.3	5.9
BONNEVILLE	4.7	7.0	5.7	5.8
SIENNA	5.7	7.0	4.7	5.8
2NJK	5.0	7.0	5.3	5.8
CS-PR66	5.3	7.0	5.0	5.8
IS-PR 487	5.3	6.7	5.3	5.8
LTP-PR 135	4.3	7.0	6.0	5.8
PPG-PR 134	5.3	6.7	5.3	5.8
EVOLUTION (S85)	5.3	7.3	4.7	5.8
APR 2036	4.3	7.0	5.7	5.7
APR 2445	4.7	7.0	5.3	5.7
IS-PR 463	5.3	6.7	5.0	5.7
ISG-30	5.3	7.3	4.3	5.7
PLAYOFF 2 (PO2)	5.3	7.0	4.7	5.7
PPG-PR 137	4.3	7.3	5.3	5.7
PRX-4GM1	4.7	6.7	5.7	5.7
PST-2BNS	5.3	7.0	4.7	5.7
RAD-PR62	5.0	7.0	5.0	5.7
UNO	4.7	7.3	5.0	5.7
BAR LP 10970	5.0	7.0	4.7	5.6
BAR LP 10972	4.7	6.3	5.7	5.6
GO-G37	5.0	7.0	4.7	5.6
PPG-PR 128	4.7	7.3	4.7	5.6
PPG-PR 138	4.7	7.0	5.0	5.6
PST-2MG7	5.0	6.7	5.0	5.6
SIDEWAYS (PSRX-S84)	4.3	7.7	4.7	5.6
SR 4650 (PSRX-3701)	5.3	6.7	4.7	5.6
INSIGHT	5.7	6.0	4.7	5.4
JR-192	4.7	7.0	4.7	5.4
PICK 4DFHM	4.7	6.7	5.0	5.4
PPG-PR 165	4.7	7.0	4.7	5.4
PST-2DR9	4.7	7.0	4.7	5.4
BAR LP 7608	4.3	7.0	5.0	5.4
ISG-31	5.7	6.3	4.3	5.4
PPG-PR 121	4.0	7.0	5.3	5.4
PPG-PR 142	4.3	7.0	5.0	5.4
ALLANTE	5.0	6.7	4.3	5.3
CL 307	5.3	6.7	4.0	5.3
DLF LGD-3026	4.0	7.0	5.0	5.3
IS-PR 491	4.7	7.0	4.3	5.3
LINN	7.3	5.3	3.3	5.3
MANHATTAN 6 GLR (PST-2MAGS)	5.0	6.7	4.3	5.3
BRIGHTSTAR SLT	4.7	6.3	4.7	5.2
DOMINATOR (PST-2AG4)	5.0	7.0	3.7	5.2
KARMA (PICK 10401)	4.3	6.7	4.7	5.2
BAR LP 10969	4.0	6.7	4.7	5.1
GO-DHS	4.0	6.7	4.7	5.1
PST-204D	5.0	6.7	3.7	5.1
PST-2K9	4.3	6.7	4.3	5.1
PALMER V	4.3	6.7	4.0	5.0
PST-2NKM	4.0	6.3	4.7	5.0
PST-2TQL	5.0	6.0	3.7	4.9
PINNACLE	4.0	5.3	4.0	4.4
LSD VALUE	1.6	0.9	1.7	0.8
C.V. (%)	18.8	8.0	21.0	15.5

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 22 WEAR TOLERANCE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	MA1	NAME	MA1
DOMINATOR (PST-2AG4)	6.3	ISG-36	5.0
2NJK	6.0	JR-178	5.0
APR 2036	6.0	PICK 4DFHM	5.0
BAR LP 10970	6.0	PPG-PR 128	5.0
DLF LGD-3022	6.0	PPG-PR 133	5.0
GO-PR60	6.0	PPG-PR 136	5.0
IS-PR 479	6.0	PPG-PR 137	5.0
JR-192	6.0	PPG-PR 142	5.0
ALLANTE	5.7	PST-2BNS	5.0
BAR LP 10969	5.7	RINOVO	5.0
BAR LP 10972	5.7	SOX FAN (GM3)	5.0
BRIGHTSTAR SLT	5.7	UNO	5.0
CS-20	5.7	APR 2445	4.7
GO-G37	5.7	CS-PR66	4.7
IS-PR 491	5.7	DLF LGD-3026	4.7
MACH I	5.7	DLF LGT 4182	4.7
PPG-PR 165	5.7	HAVEN (APR 2038)	4.7
PSRX-4CAGL	5.7	INSIGHT	4.7
PST-2MG7	5.7	LTP-RAE	4.7
APR 2320	5.3	PINNACLE	4.7
IS-PR 463	5.3	PPG-PR 140	4.7
IS-PR 488	5.3	PPG-PR 143	4.7
IS-PR 492	5.3	MANHATTAN 6 GLR (PST-2MAGS)	4.7
ISG-31	5.3	RAD-PR55R	4.7
LTP-PR 135	5.3	EVOLUTION (S85)	4.7
OCTANE	5.3	SIENNA	4.7
PLAYOFF 2 (P02)	5.3	WICKED (SRX-4RHD)	4.7
PALMER V	5.3	GO-DHS	4.3
PIZZAZZ 2 GLR (PR 909)	5.3	IS-PR 469	4.3
PPG-PR 121	5.3	IS-PR 489	4.3
PPG-PR 138	5.3	PANGEA GLR (CL 11701)	4.3
PRX-4GM1	5.3	PST-2NKM	4.3
PST-204D	5.3	PST-2TQL	4.3
PST-2ACR	5.3	RIO VISTA	4.3
PST-2DR9	5.3	SR 4650 (PSRX-3701)	4.3
PST-2K9	5.3	SRX-4MSH	4.3
RAD-PR62	5.3	A-35	4.0
SIDEWAYS (PSRX-S84)	5.3	BONNEVILLE	4.0
BAR LP 7608	5.0	CL 307	4.0
CL 11601	5.0	KARMA (PICK 10401)	4.0
CST	5.0	PPG-PR 134	4.0
FIESTA 4	5.0	PPG-PR 164	4.0
IS-PR 409	5.0	LINN	3.7
IS-PR 487	5.0		
ISG-30	5.0	LSD VALUE	1.0
		C.V. (%)	12.3

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 23. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	CA3	MN1	MO1	OR1	MEAN
PALMER V	7.0	7.7	6.7	7.0	7.1
LINN	8.0	7.7	5.7	6.7	7.0
SOX FAN (GM3)	7.0	7.7	6.7	6.7	7.0
JR-192	6.7	7.3	6.7	7.0	6.9
CL 11601	6.7	7.3	6.7	6.7	6.8
ISG-31	6.7	6.7	7.0	7.0	6.8
PPG-PR 138	6.7	7.3	6.7	6.7	6.8
SIENNA	6.0	8.0	6.7	6.7	6.8
DOMINATOR (PST-2AG4)	7.0	6.3	7.0	7.0	6.8
JR-178	7.0	7.0	6.3	7.0	6.8
LTP-PR 135	6.3	7.7	6.3	7.0	6.8
IS-PR 492	6.5	6.7	7.0	7.0	6.8
ALLANTE	6.3	8.3	5.7	6.7	6.8
2NJK	6.3	7.0	6.7	7.0	6.8
BRIGHTSTAR SLT	6.7	7.3	6.3	6.7	6.8
DLF LGD-3022	6.7	7.3	6.3	6.7	6.8
HAVEN (APR 2038)	6.7	6.7	6.7	7.0	6.8
OCTANE	5.3	7.7	7.0	7.0	6.8
PANGEA GLR (CL 11701)	6.3	7.7	6.7	6.3	6.8
KARMA (PICK 10401)	6.3	7.0	7.0	6.7	6.8
PPG-PR 121	6.3	8.0	5.7	7.0	6.8
PPG-PR 128	6.3	7.3	6.3	7.0	6.8
PPG-PR 133	6.0	7.3	6.7	7.0	6.8
PPG-PR 134	6.3	6.7	7.3	6.7	6.8
PPG-PR 164	6.3	7.3	6.3	7.0	6.8
RINOVO	6.3	7.3	6.3	7.0	6.8
CL 307	6.0	7.3	7.3	6.3	6.8
IS-PR 463	7.0	7.0	6.0	6.7	6.7
INSIGHT	6.3	8.0	6.0	6.3	6.7
PST-2DR9	6.7	7.0	6.0	6.7	6.6
SIDEWAYS (PSRX-S84)	6.0	6.7	7.0	6.7	6.6
IS-PR 489	6.0	7.3	6.0	7.0	6.6
PST-2NKM	6.0	7.3	6.0	7.0	6.6
SR 4650 (PSRX-3701)	6.3	7.0	6.3	6.7	6.6
BAR LP 10969	6.7	6.7	6.0	6.7	6.5
CS-20	6.7	6.0	6.7	6.7	6.5
BAR LP 7608	6.3	7.0	5.7	7.0	6.5
ISG-36	7.0	6.3	6.0	6.7	6.5
PPG-PR 140	6.3	7.0	6.0	6.7	6.5
PRX-4GM1	6.0	7.0	6.3	6.7	6.5
PST-2ACR	6.3	7.0	6.0	6.7	6.5
CST	6.7	6.7	6.0	6.3	6.4
DLF LGD-3026	6.3	6.7	5.7	7.0	6.4
GO-PR60	6.0	7.7	5.7	6.3	6.4
PINNACLE	5.3	7.7	6.0	6.7	6.4

TABLE 23. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2011 DATA

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

NAME	CA3	MN1	MO1	OR1	MEAN
PPG-PR 136	6.3	6.7	5.7	7.0	6.4
PSRX-4CAGL	6.0	7.0	6.0	6.7	6.4
MANHATTAN 6 GLR (PST-2MAGS)	6.3	6.7	6.0	6.7	6.4
PST-2TQL	6.0	6.3	6.7	6.7	6.4
EVOLUTION (S85)	6.0	6.7	6.3	6.7	6.4
WICKED (SRX-4RHD)	5.7	7.0	6.0	7.0	6.4
APR 2445	6.3	6.3	6.7	6.3	6.4
PPG-PR 137	6.3	7.3	5.7	6.3	6.4
PPG-PR 143	6.0	7.3	6.0	6.3	6.4
GO-G37	6.7	6.0	5.7	7.0	6.3
PPG-PR 142	6.0	6.7	6.7	6.0	6.3
PST-204D	6.7	6.7	5.3	6.7	6.3
APR 2036	6.0	6.3	6.7	6.3	6.3
BAR LP 10970	6.3	6.3	5.7	7.0	6.3
ISG-30	7.0	6.0	5.3	7.0	6.3
PST-2BNS	6.0	7.3	5.7	6.3	6.3
PST-2MG7	6.7	5.7	6.0	6.7	6.3
CS-PR66	6.3	6.7	6.3	5.7	6.3
IS-PR 487	6.0	6.7	6.3	6.0	6.3
PLAYOFF 2 (P02)	6.3	6.7	6.0	6.0	6.3
PST-2K9	6.0	6.7	6.3	6.0	6.3
SRX-4MSH	6.0	7.0	5.3	6.7	6.3
UNO	4.7	7.7	6.3	6.3	6.3
BONNEVILLE	5.0	6.7	6.0	7.0	6.2
IS-PR 491	6.0	6.7	5.7	6.3	6.2
RAD-PR62	5.3	7.3	5.3	6.7	6.2
RIO VISTA	5.0	7.0	6.0	6.7	6.2
BAR LP 10972	6.3	6.0	6.0	6.3	6.2
FIESTA 4	5.7	7.3	5.3	6.3	6.2
DLF LGT 4182	6.7	5.0	5.7	7.0	6.1
GO-DHS	6.7	6.3	4.7	6.7	6.1
MACH I	6.0	6.0	5.7	6.7	6.1
IS-PR 479	6.0	5.7	6.3	6.3	6.1
PIZZAZZ 2 GLR (PR 909)	4.3	7.3	6.7	6.0	6.1
IS-PR 409	4.7	6.7	6.0	6.7	6.0
A-35	6.3	6.0	5.0	6.7	6.0
LTP-RAE	6.3	6.0	5.7	6.0	6.0
APR 2320	6.3	6.0	5.3	6.3	6.0
PICK 4DFHM	4.7	7.0	5.3	6.3	5.8
IS-PR 469	4.3	6.3	6.7	5.7	5.8
RAD-PR55R	4.7	6.3	5.7	6.3	5.8
IS-PR 488	6.0	6.0	5.0	5.7	5.7
PPG-PR 165	4.3	6.7	5.3	6.3	5.7
LSD VALUE	1.8	1.1	1.6	1.0	0.7
C.V. (%)	18.2	9.5	16.1	9.2	13.5

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 24. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	MA1	NAME	MA1
INSIGHT	7.3	PPG-PR 138	6.0
ALLANTE	6.7	PPG-PR 142	6.0
APR 2320	6.7	PRX-4GM1	6.0
BRIGHTSTAR SLT	6.7	PSRX-4CAGL	6.0
CL 11601	6.7	RAD-PR55R	6.0
CS-PR66	6.7	SRX-4MSH	6.0
ISG-36	6.7	UNO	6.0
MACH I	6.7	2NJK	5.7
PPG-PR 165	6.7	BAR LP 7608	5.7
SIENNA	6.7	DLF LGD-3026	5.7
SR 4650 (PSRX-3701)	6.7	GO-G37	5.7
APR 2445	6.3	ISG-30	5.7
CL 307	6.3	JR-178	5.7
CST	6.3	LTP-RAE	5.7
FIESTA 4	6.3	PLAYOFF 2 (PO2)	5.7
GO-PR60	6.3	PANGEA GLR (CL 11701)	5.7
IS-PR 409	6.3	PPG-PR 128	5.7
IS-PR 463	6.3	PPG-PR 134	5.7
IS-PR 469	6.3	PPG-PR 164	5.7
IS-PR 479	6.3	PST-2K9	5.7
IS-PR 488	6.3	MANHATTAN 6 GLR (PST-2MAGS)	5.7
IS-PR 491	6.3	PST-2MG7	5.7
IS-PR 492	6.3	PST-2NKM	5.7
JR-192	6.3	PST-2TQL	5.7
OCTANE	6.3	RAD-PR62	5.7
KARMA (PICK 10401)	6.3	RIO VISTA	5.7
PPG-PR 121	6.3	EVOLUTION (S85)	5.7
PPG-PR 136	6.3	SIDEWAYS (PSRX-S84)	5.7
PPG-PR 137	6.3	SOX FAN (GM3)	5.7
PPG-PR 140	6.3	WICKED (SRX-4RHD)	5.7
PST-2BNS	6.3	BAR LP 10972	5.3
PST-2DR9	6.3	DLF LGD-3022	5.3
RINOVO	6.3	GO-DHS	5.3
A-35	6.0	HAVEN (APR 2038)	5.3
APR 2036	6.0	IS-PR 487	5.3
BAR LP 10969	6.0	IS-PR 489	5.3
BAR LP 10970	6.0	PINNACLE	5.3
CS-20	6.0	PPG-PR 143	5.3
DOMINATOR (PST-2AG4)	6.0	PST-204D	5.3
ISG-31	6.0	BONNEVILLE	5.0
LTP-PR 135	6.0	DLF LGT 4182	5.0
PALMER V	6.0	PST-2ACR	5.0
PICK 4DFHM	6.0	LINN	3.7
PIZZAZZ 2 GLR (PR 909)	6.0		
PPG-PR 133	6.0	LSD VALUE	0.9
		C.V. (%)	9.6

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

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

TABLE 25 PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MO1	VA1	MEAN
PANGEA GLR (CL 11701)	97.7	93.3	95.5
KARMA (PICK 10401)	97.7	93.3	95.5
RINOVO	97.7	93.3	95.5
CST	99.0	91.7	95.3
DLF LGT 4182	99.0	91.7	95.3
PIZZAZZ 2 GLR (PR 909)	99.0	91.7	95.3
LINN	98.3	91.7	95.0
CL 11601	97.7	91.7	94.7
INSIGHT	99.0	90.0	94.5
IS-PR 489	96.0	91.7	93.8
PLAYOFF 2 (P02)	97.7	90.0	93.8
PPG-PR 136	97.7	90.0	93.8
SR 4650 (PSRX-3701)	96.0	91.7	93.8
JR-178	99.0	88.3	93.7
EVOLUTION (S85)	99.0	88.3	93.7
SIENNA	99.0	88.3	93.7
SOX FAN (GM3)	99.0	88.3	93.7
BRIGHTSTAR SLT	96.0	90.0	93.0
DOMINATOR (PST-2AG4)	97.7	88.3	93.0
PINNACLE	97.7	88.3	93.0
PST-2NKM	97.7	88.3	93.0
DLF LGD-3026	93.7	91.7	92.7
IS-PR 488	96.3	88.3	92.3
WICKED (SRX-4RHD)	96.3	88.3	92.3
APR 2036	97.7	86.7	92.2
DLF LGD-3022	97.7	86.7	92.2
IS-PR 463	97.7	86.7	92.2
LTP-PR 135	97.7	86.7	92.2
PALMER V	97.7	86.7	92.2
PICK 4DFHM	97.7	86.7	92.2
PPG-PR 133	97.7	86.7	92.2
PPG-PR 140	97.7	86.7	92.2
RAD-PR62	97.7	86.7	92.2
RIO VISTA	96.0	88.3	92.2
2NJK	99.0	85.0	92.0
PRX-4GM1	99.0	85.0	92.0
SRX-4MSH	99.0	85.0	92.0
PPG-PR 137	95.0	88.3	91.7
PST-2DR9	93.3	90.0	91.7
CS-PR66	94.7	88.3	91.5
JR-192	96.3	86.7	91.5
PST-2TQL	94.7	88.3	91.5
PPG-PR 142	97.7	85.0	91.3
PST-2BNS	97.7	85.0	91.3
MANHATTAN 6 GLR (PST-2MAGS)	97.7	85.0	91.3
BAR LP 7608	99.0	83.3	91.2
SIDEWAYS (PSRX-S84)	99.0	83.3	91.2
ALLANTE	94.7	86.7	90.7
HAVEN (APR 2038)	96.3	85.0	90.7
PPG-PR 138	96.3	85.0	90.7
IS-PR 409	97.7	83.3	90.5
MACH I	97.7	83.3	90.5
PPG-PR 134	97.7	83.3	90.5
ISG-30	93.7	86.7	90.2
PST-2K9	94.7	85.0	89.8
RAD-PR55R	94.7	85.0	89.8
BAR LP 10970	96.3	83.3	89.8
IS-PR 491	96.3	83.3	89.8
PST-2MG7	97.7	81.7	89.7
IS-PR 487	99.0	80.0	89.5
OCTANE	99.0	80.0	89.5
PPG-PR 128	99.0	80.0	89.5
LTP-RAE	90.0	88.3	89.2
BAR LP 10969	94.7	83.3	89.0
BAR LP 10972	96.3	81.7	89.0
GO-G37	96.3	81.7	89.0
ISG-31	96.3	81.7	89.0
A-35	97.7	80.0	88.8
APR 2445	96.0	81.7	88.8
IS-PR 469	92.7	85.0	88.8
IS-PR 479	97.7	80.0	88.8
UNO	97.7	80.0	88.8
ISG-36	97.3	80.0	88.7
GO-PR60	94.7	81.7	88.2
PPG-PR 165	94.7	81.7	88.2
CS-20	96.7	78.3	87.5
FIESTA 4	93.3	81.7	87.5
GO-DHS	95.0	80.0	87.5
CL 307	96.3	78.3	87.3
PPG-PR 121	99.0	75.0	87.0
PST-204D	93.7	80.0	86.8
BONNEVILLE	96.3	76.7	86.5
PPG-PR 143	96.3	76.7	86.5
PPG-PR 164	94.7	78.3	86.5
PSRX-4CAGL	96.3	76.7	86.5
IS-PR 492	96.0	76.7	86.3
APR 2320	93.0	78.3	85.7
PST-2ACR	96.3	68.3	82.3
LSD VALUE	4.7	11.2	6.1
C.V. (%)	3.0	8.2	5.9

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

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

TABLE 26: PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1	MO1	NJ2	MEAN
UNO	73.3	86.7	86.7	82.2
2NJK	73.3	91.7	80.0	81.7
OCTANE	70.0	76.7	91.7	79.4
CL 307	76.7	73.3	85.0	78.3
PINNACLE	70.0	75.0	90.0	78.3
BRIGHTSTAR SLT	83.3	65.0	85.0	77.8
SIDEWAYS (PSRX-S84)	73.3	80.0	80.0	77.8
SRX-4MSH	66.7	86.7	78.3	77.2
PST-2MG7	73.3	80.0	78.3	77.2
PST-2NKM	73.3	78.3	80.0	77.2
PPG-PR 121	63.3	80.0	86.7	76.7
SR 4650 (PSRX-3701)	66.7	71.7	91.7	76.7
DOMINATOR (PST-2AG4)	70.0	76.7	80.0	75.6
JR-178	63.3	78.3	85.0	75.6
PPG-PR 137	60.0	85.0	81.7	75.6
GO-DHS	63.3	83.3	78.3	75.0
HAVEN (APR 2038)	63.3	75.0	85.0	74.4
IS-PR 463	63.3	80.0	80.0	74.4
ISG-31	60.0	83.3	80.0	74.4
PST-2TQL	66.7	71.7	85.0	74.4
EVOLUTION (S85)	63.3	80.0	80.0	74.4
BAR LP 10970	60.0	85.0	76.7	73.9
CS-PR66	66.7	86.7	68.3	73.9
DLF LGD-3022	73.3	60.0	88.3	73.9
BAR LP 10969	66.7	78.3	75.0	73.3
BAR LP 7608	60.0	83.3	76.7	73.3
CL 11601	70.0	60.0	90.0	73.3
CS-20	78.3	68.3	73.3	73.3
IS-PR 491	66.7	81.7	71.7	73.3
JR-192	70.0	78.3	71.7	73.3
PST-2K9	53.3	85.0	81.7	73.3
ISG-30	70.0	73.3	75.0	72.8
LINN	63.3	68.3	86.7	72.8
PPG-PR 133	63.3	76.7	76.7	72.2
PPG-PR 165	63.3	71.7	81.7	72.2
PST-2BNS	56.7	78.3	81.7	72.2
PALMER V	60.0	68.3	88.3	72.2
BONNEVILLE	66.7	73.3	75.0	71.7
PANGEA GLR (CL 11701)	60.0	68.3	86.7	71.7
PICK 4DFHM	50.0	86.7	78.3	71.7
PST-2ACR	56.7	81.7	76.7	71.7
RAD-PR55R	63.3	76.7	75.0	71.7
SOX FAN (GM3)	60.0	70.0	85.0	71.7
WICKED (SRX-4RHD)	56.7	78.3	80.0	71.7
ISG-36	63.3	75.0	75.0	71.1
PST-2DR9	56.7	71.7	85.0	71.1

TABLE 26. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2011 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1	MO1	NJ2	MEAN
APR 2320	63.3	71.7	78.3	71.1
GO-PR60	63.3	76.7	73.3	71.1
MACH I	56.7	78.3	78.3	71.1
PPG-PR 140	60.0	78.3	75.0	71.1
PRX-4GM1	63.3	66.7	83.3	71.1
MANHATTAN 6 GLR (PST-2MAGS)	73.3	63.3	76.7	71.1
PPG-PR 128	56.7	76.7	78.3	70.6
PPG-PR 134	53.3	79.3	78.3	70.3
FIESTA 4	53.3	73.3	83.3	70.0
GO-G37	50.0	83.3	76.7	70.0
KARMA (PICK 10401)	50.0	73.3	86.7	70.0
IS-PR 492	60.0	73.3	75.0	69.4
LTP-PR 135	60.0	73.3	75.0	69.4
PPG-PR 142	66.7	63.3	78.3	69.4
PST-204D	60.0	65.0	83.3	69.4
APR 2445	53.3	81.7	71.7	68.9
IS-PR 487	60.0	75.0	71.7	68.9
RINOVO	53.3	65.0	88.3	68.9
IS-PR 489	70.0	61.7	75.0	68.9
A-35	60.0	75.0	70.0	68.3
DLF LGT 4182	56.7	81.7	66.7	68.3
IS-PR 469	56.7	78.3	70.0	68.3
SIENNA	63.3	55.0	86.7	68.3
PIZZAZZ 2 GLR (PR 909)	70.0	48.3	85.0	67.8
ALLANTE	73.3	41.7	88.3	67.8
PLAYOFF 2 (PO2)	60.0	73.3	70.0	67.8
PPG-PR 143	56.7	68.3	78.3	67.8
RAD-PR62	53.3	76.7	73.3	67.8
DLF LGD-3026	70.0	50.0	81.7	67.2
BAR LP 10972	46.7	81.7	70.0	66.1
PPG-PR 164	63.3	48.3	86.7	66.1
RIO VISTA	63.3	55.0	80.0	66.1
INSIGHT	56.7	56.7	85.0	66.1
PPG-PR 136	60.0	65.0	71.7	65.6
CST	53.3	73.3	68.3	65.0
IS-PR 488	53.3	75.0	66.7	65.0
APR 2036	53.3	66.7	73.3	64.4
PPG-PR 138	43.3	66.7	81.7	63.9
IS-PR 479	56.7	58.3	71.7	62.2
IS-PR 409	45.0	68.3	70.0	61.1
PSRX-4CAGL	50.0	53.3	78.3	60.6
LTP-RAE	60.0	43.3	75.0	59.4
LSD VALUE	24.8	23.9	8.2	11.8
C.V. (%)	24.8	20.5	6.4	17.8

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

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

TABLE 27. BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	MO1	NJ2	MEAN	NAME	MO1	NJ2	MEAN
IS-PR 463	5.7	6.7	6.2	PRX-4GM1	3.7	5.3	4.5
IS-PR 487	6.0	6.3	6.2	SIDEWAYS (PSRX-S84)	4.3	4.7	4.5
KARMA (PICK 10401)	5.0	7.3	6.2	PPG-PR 142	4.7	4.0	4.3
APR 2445	7.0	4.7	5.8	SOX FAN (GM3)	4.0	4.7	4.3
INSIGHT	5.3	6.3	5.8	CL 307	4.3	4.3	4.3
IS-PR 492	5.7	5.7	5.7	CST	5.0	3.7	4.3
LTP-RAE	6.7	4.7	5.7	PALMER V	5.0	3.7	4.3
PPG-PR 134	5.7	5.7	5.7	PICK 4DFHM	5.0	3.7	4.3
IS-PR 491	5.3	6.0	5.7	PST-2K9	4.3	4.3	4.3
PANGEA GLR (CL 11701)	4.7	6.3	5.5	DOMINATOR (PST-2AG4)	4.7	3.7	4.2
PPG-PR 165	4.0	7.0	5.5	JR-178	4.7	3.7	4.2
PST-2BNS	5.3	5.7	5.5	PPG-PR 138	4.7	3.7	4.2
ALLANTE	4.7	6.0	5.3	RIO VISTA	3.7	4.7	4.2
CL 11601	5.7	5.0	5.3	2NJK	4.3	4.0	4.2
PST-2NKM	5.0	5.7	5.3	BAR LP 7608	5.3	3.0	4.2
PPG-PR 143	6.3	4.3	5.3	CS-PR66	4.3	4.0	4.2
SRX-4MSH	5.3	5.3	5.3	GO-PR60	4.0	4.3	4.2
WICKED (SRX-4RHD)	5.3	5.3	5.3	BAR LP 10972	5.0	3.0	4.0
UNO	5.3	5.3	5.3	BRIGHTSTAR SLT	4.0	4.0	4.0
IS-PR 469	4.7	5.7	5.2	PINNACLE	4.7	3.3	4.0
RINOVO	3.3	7.0	5.2	MANHATTAN 6 GLR (PST-2MAGS)	4.7	3.3	4.0
SIENNA	4.7	5.7	5.2	PST-2MG7	5.3	2.7	4.0
IS-PR 488	5.3	5.0	5.2	PST-2TQL	4.0	4.0	4.0
PIZZAZZ 2 GLR (PR 909)	5.3	5.0	5.2	RAD-PR62	4.3	3.7	4.0
PPG-PR 164	4.0	6.3	5.2	PSRX-4CAGL	4.0	3.7	3.8
BAR LP 10970	5.3	4.7	5.0	PST-204D	5.0	2.7	3.8
JR-192	5.0	5.0	5.0	PST-2DR9	4.3	3.3	3.8
LTP-PR 135	5.3	4.7	5.0	RAD-PR55R	4.0	3.7	3.8
PPG-PR 133	5.3	4.7	5.0	FIESTA 4	3.3	4.0	3.7
PPG-PR 136	4.0	6.0	5.0	ISG-31	4.7	2.7	3.7
SR 4650 (PSRX-3701)	4.3	5.7	5.0	PLAYOFF 2 (P02)	3.7	3.7	3.7
BAR LP 10969	4.7	5.0	4.8	PST-2ACR	3.7	3.7	3.7
DLF LGD-3022	5.0	4.7	4.8	A-35	3.7	3.3	3.5
EVOLUTION (S85)	4.7	5.0	4.8	APR 2320	4.0	3.0	3.5
PPG-PR 140	5.3	4.3	4.8	MACH I	3.3	3.7	3.5
BONNEVILLE	4.7	4.7	4.7	DLF LGT 4182	3.0	3.7	3.3
APR 2036	4.3	5.0	4.7	GO-G37	3.0	3.7	3.3
IS-PR 409	4.3	5.0	4.7	ISG-30	4.0	2.7	3.3
IS-PR 489	5.0	4.3	4.7	CS-20	3.3	3.0	3.2
OCTANE	5.0	4.3	4.7	GO-DHS	3.7	2.7	3.2
PPG-PR 128	5.0	4.3	4.7	ISG-36	3.7	2.3	3.0
PPG-PR 137	4.3	5.0	4.7	DLF LGD-3026	3.3	2.3	2.8
HAVEN (APR 2038)	4.3	4.7	4.5	LINN	3.0	1.3	2.2
IS-PR 479	5.0	4.0	4.5				
PPG-PR 121	3.3	5.7	4.5	LSD VALUE	1.7	1.7	1.2
				C.V. (%)	23.3	23.9	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 28. PYTHIUM BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

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

NAME	VA1	NAME	VA1
GO-DHS	6.3	APR 2320	2.3
BRIGHTSTAR SLT	4.3	BAR LP 7608	2.3
ISG-36	4.3	CL 11601	2.3
A-35	4.0	CST	2.3
CL 307	4.0	DLF LGD-3026	2.3
CS-20	4.0	IS-PR 409	2.3
ISG-31	4.0	IS-PR 489	2.3
2NJK	3.7	LTP-RAE	2.3
GO-G37	3.7	PPG-PR 133	2.3
ISG-30	3.7	PPG-PR 138	2.3
MACH I	3.7	RAD-PR55R	2.3
PLAYOFF 2 (P02)	3.7	SR 4650 (PSRX-3701)	2.3
PPG-PR 142	3.7	WICKED (SRX-4RHD)	2.3
PST-2ACR	3.7	ALLANTE	2.0
MANHATTAN 6 GLR (PST-2MAGS)	3.7	APR 2445	2.0
PST-2MG7	3.7	BAR LP 10972	2.0
BONNEVILLE	3.3	FIESTA 4	2.0
PPG-PR 121	3.3	IS-PR 463	2.0
PPG-PR 128	3.3	IS-PR 469	2.0
PPG-PR 140	3.3	JR-192	2.0
PPG-PR 143	3.3	KARMA (PICK 10401)	2.0
PPG-PR 164	3.3	PINNACLE	2.0
PSRX-4CAGL	3.3	PIZZAZZ 2 GLR (PR 909)	2.0
PST-2DR9	3.3	PPG-PR 134	2.0
SOX FAN (GM3)	3.3	PST-2NKM	2.0
CS-PR66	3.0	RAD-PR62	2.0
DOMINATOR (PST-2AG4)	3.0	RIO VISTA	2.0
HAVEN (APR 2038)	3.0	SIDEWAYS (PSRX-S84)	2.0
OCTANE	3.0	UNO	2.0
PPG-PR 136	3.0	BAR LP 10970	1.7
PST-2K9	3.0	GO-PR60	1.7
SRX-4MSH	3.0	INSIGHT	1.7
BAR LP 10969	2.7	IS-PR 487	1.7
DLF LGT 4182	2.7	IS-PR 488	1.7
IS-PR 479	2.7	IS-PR 491	1.7
IS-PR 492	2.7	PALMER V	1.7
JR-178	2.7	PANGEA GLR (CL 11701)	1.7
LINN	2.7	PST-204D	1.7
LTP-PR 135	2.7	EVOLUTION (S85)	1.7
PICK 4DFHM	2.7	SIENNA	1.7
PPG-PR 137	2.7	DLF LGD-3022	1.3
PPG-PR 165	2.7	PST-2BNS	1.3
PRX-4GM1	2.7	RINOVO	1.3
PST-2TQL	2.7		
APR 2036	2.3	LSD VALUE	1.7
		C.V. (%)	40.2

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

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

TABLE 29. PINK SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/

NAME	MN1	NAME	MN1
PANGEA GLR (CL 11701)	7.3	PALMER V	5.0
SOX FAN (GM3)	7.0	PIZZAZZ 2 GLR (PR 909)	5.0
PLAYOFF 2 (P02)	6.7	PPG-PR 165	5.0
PPG-PR 134	6.7	RAD-PR55R	5.0
PPG-PR 138	6.7	EVOLUTION (S85)	5.0
APR 2320	6.3	SIENNA	5.0
BAR LP 10972	6.3	SR 4650 (PSRX-3701)	5.0
OCTANE	6.3	UNO	5.0
PPG-PR 128	6.3	2NJK	4.7
PPG-PR 140	6.3	BAR LP 7608	4.7
APR 2036	6.0	BRIGHTSTAR SLT	4.7
JR-178	6.0	FIESTA 4	4.7
PPG-PR 142	6.0	IS-PR 463	4.7
PST-2NKM	6.0	IS-PR 487	4.7
WICKED (SRX-4RHD)	6.0	ISG-36	4.7
A-35	5.7	LINN	4.7
DLF LGT 4182	5.7	PINNACLE	4.7
HAVEN (APR 2038)	5.7	PSRX-4CAGL	4.7
IS-PR 489	5.7	RIO VISTA	4.7
IS-PR 491	5.7	BONNEVILLE	4.3
PPG-PR 121	5.7	IS-PR 492	4.3
PRX-4GM1	5.7	ISG-30	4.3
PST-2ACR	5.7	LTP-PR 135	4.3
PST-2BNS	5.7	LTP-RAE	4.3
PST-2K9	5.7	PPG-PR 136	4.3
BAR LP 10969	5.3	PST-2DR9	4.3
CL 11601	5.3	SIDEWAYS (PSRX-S84)	4.3
CS-PR66	5.3	ALLANTE	4.0
CST	5.3	GO-PR60	4.0
DOMINATOR (PST-2AG4)	5.3	MACH I	4.0
INSIGHT	5.3	PST-2MG7	4.0
IS-PR 488	5.3	SRX-4MSH	4.0
JR-192	5.3	CS-20	3.7
KARMA (PICK 10401)	5.3	PICK 4DFHM	3.7
PPG-PR 133	5.3	RAD-PR62	3.7
PPG-PR 137	5.3	RINOVO	3.7
PPG-PR 143	5.3	APR 2445	3.3
PST-204D	5.3	DLF LGD-3026	3.3
BAR LP 10970	5.0	GO-DHS	3.3
CL 307	5.0	IS-PR 469	3.3
DLF LGD-3022	5.0	PPG-PR 164	3.3
GO-G37	5.0	PST-2TQL	3.3
IS-PR 409	5.0	MANHATTAN 6 GLR (PST-2MAGS)	2.7
IS-PR 479	5.0		
ISG-31	5.0	LSD VALUE	2.4
		C.V. (%)	29.6

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 30. SEEDHEAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

NAME	NJ2	NAME	NJ2
APR 2320	9.0	WICKED (SRX-4RHD)	5.7
IS-PR 469	9.0	BAR LP 10969	5.3
INSIGHT	8.7	CS-20	5.3
A-35	8.3	CST	5.3
BAR LP 10970	8.3	GO-G37	5.3
SIENNA	8.3	IS-PR 488	5.3
JR-192	8.0	ISG-30	5.3
ALLANTE	7.7	OCTANE	5.3
APR 2036	7.3	PPG-PR 133	5.3
GO-PR60	7.3	PPG-PR 136	5.3
IS-PR 479	7.3	PSRX-4CAGL	5.3
RINOVO	7.3	PST-2K9	5.3
CS-PR66	7.0	PPG-PR 137	5.0
IS-PR 409	7.0	PPG-PR 143	5.0
IS-PR 491	7.0	PRX-4GM1	5.0
LTP-RAE	7.0	EVOLUTION (S85)	5.0
KARMA (PICK 10401)	7.0	DLF LGT 4182	4.7
PPG-PR 164	7.0	DOMINATOR (PST-2AG4)	4.7
PST-2BNS	7.0	HAVEN (APR 2038)	4.7
IS-PR 487	6.7	ISG-31	4.7
MACH I	6.7	PPG-PR 128	4.7
PPG-PR 165	6.7	PPG-PR 142	4.7
APR 2445	6.3	SIDEWAYS (PSRX-S84)	4.7
IS-PR 463	6.3	SOX FAN (GM3)	4.7
ISG-36	6.3	BRIGHTSTAR SLT	4.3
PPG-PR 138	6.3	CL 307	4.3
RAD-PR55R	6.3	DLF LGD-3026	4.3
SR 4650 (PSRX-3701)	6.3	IS-PR 489	4.3
BAR LP 10972	6.0	LTP-PR 135	4.3
JR-178	6.0	PINNACLE	4.3
PALMER V	6.0	PST-204D	4.3
PANGEA GLR (CL 11701)	6.0	MANHATTAN 6 GLR (PST-2MAGS)	4.3
PPG-PR 121	6.0	CL 11601	4.0
RAD-PR62	6.0	DLF LGD-3022	4.0
SRX-4MSH	6.0	PLAYOFF 2 (P02)	4.0
UNO	6.0	PICK 4DFHM	4.0
BAR LP 7608	5.7	PST-2MG7	4.0
FIESTA 4	5.7	PST-2NKM	4.0
GO-DHS	5.7	2NJK	3.7
IS-PR 492	5.7	PST-2DR9	3.7
PIZZAZZ 2 GLR (PR 909)	5.7	BONNEVILLE	3.3
PPG-PR 134	5.7	PST-2ACR	3.0
PPG-PR 140	5.7	LINN	1.0
PST-2TQL	5.7		
RIO VISTA	5.7	LSD VALUE	1.5
		C.V. (%)	16.6

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

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

TABLE 31. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2011 DATA 2/

NAME	IL1	MA1	MEAN
PPG-PR 165	71.7	70.0	70.8
CL 11601	73.3	66.7	70.0
OCTANE	76.7	63.3	70.0
PPG-PR 136	75.0	63.3	69.2
PPG-PR 137	71.7	66.7	69.2
PPG-PR 138	76.7	60.0	68.3
SR 4650 (PSRX-3701)	70.0	66.7	68.3
RINOVO	78.3	56.7	67.5
BRIGHTSTAR SLT	76.7	56.7	66.7
PPG-PR 164	73.3	56.7	65.0
CL 307	71.7	56.7	64.2
PSRX-4CAGL	75.0	53.3	64.2
SOX FAN (GM3)	71.7	56.7	64.2
HAVEN (APR 2038)	76.7	50.0	63.3
JR-192	66.7	60.0	63.3
PST-2O4D	76.7	50.0	63.3
PPG-PR 128	70.0	56.7	63.3
PRX-4GM1	70.0	56.7	63.3
PST-2DR9	70.0	56.7	63.3
FIESTA 4	75.0	50.0	62.5
JR-178	71.7	53.3	62.5
LINN	75.0	50.0	62.5
PIZZAZZ 2 GLR (PR 909)	68.3	56.7	62.5
PPG-PR 121	71.7	53.3	62.5
PPG-PR 143	68.3	56.7	62.5
UNO	75.0	50.0	62.5
BAR LP 10969	70.0	53.3	61.7
LTP-PR 135	70.0	53.3	61.7
PANGEA GLR (CL 11701)	70.0	53.3	61.7
INSIGHT	73.3	50.0	61.7
PINNACLE	71.7	50.0	60.8
RIO VISTA	71.7	50.0	60.8
SIDEWAYS (PSRX-S84)	71.7	50.0	60.8
WICKED (SRX-4RHD)	71.7	50.0	60.8
BONNEVILLE	75.0	46.7	60.8
KARMA (PICK 10401)	65.0	56.7	60.8
PST-2MG7	68.3	53.3	60.8
SRX-4MSH	65.0	56.7	60.8
ALLANTE	66.7	53.3	60.0
BAR LP 7608	66.7	53.3	60.0
DLF LGD-3022	70.0	50.0	60.0
DOMINATOR (PST-2AG4)	66.7	53.3	60.0
IS-PR 488	63.3	56.7	60.0
PPG-PR 142	66.7	53.3	60.0
APR 2320	65.0	53.3	59.2
PPG-PR 134	65.0	53.3	59.2
SIENNA	68.3	50.0	59.2
ISG-30	66.7	50.0	58.3
EVOLUTION (S85)	66.7	50.0	58.3
CS-PR66	60.0	56.7	58.3
IS-PR 409	70.0	46.7	58.3
IS-PR 492	56.7	60.0	58.3
PALMER V	70.0	46.7	58.3
APR 2036	65.0	50.0	57.5
CS-20	65.0	50.0	57.5
MACH I	65.0	50.0	57.5
PPG-PR 133	58.3	56.7	57.5
PST-2BNS	58.3	56.7	57.5
A-35	66.7	46.7	56.7
DLF LGD-3026	70.0	43.3	56.7
GO-DHS	66.7	46.7	56.7
GO-PR60	60.0	53.3	56.7
IS-PR 463	63.3	50.0	56.7
IS-PR 491	63.3	50.0	56.7
LTP-RAE	63.3	50.0	56.7
PST-2NKM	66.7	46.7	56.7
PPG-PR 140	56.7	56.7	56.7
PICK 4DFHM	58.3	53.3	55.8
GO-G37	61.7	50.0	55.8
IS-PR 489	61.7	50.0	55.8
PST-2K9	68.3	43.3	55.8
2NJK	63.3	46.7	55.0
IS-PR 469	60.0	50.0	55.0
IS-PR 487	65.0	43.3	54.2
ISG-31	65.0	43.3	54.2
RAD-PR62	65.0	43.3	54.2
PST-2TQL	68.3	40.0	54.2
RAD-PR55R	61.7	46.7	54.2
ISG-36	50.0	56.7	53.3
PLAYOFF 2 (PO2)	51.7	53.3	52.5
PST-2ACR	65.0	40.0	52.5
BAR LP 10970	63.3	40.0	51.7
CST	50.0	53.3	51.7
MANHATTAN 6 GLR (PST-2MAGS)	66.7	36.7	51.7
APR 2445	56.7	46.7	51.7
IS-PR 479	56.7	46.7	51.7
DLF LGT 4182	58.3	36.7	47.5
BAR LP 10972	60.0	30.0	45.0
LSD VALUE	13.5	13.2	9.4
C.V. (%)	12.5	15.8	13.9

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

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

TABLE 32. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
AT EAST LANSING, MI 2/
2010 DATA

NAME	OCTOBER	NOVEMBER	MEAN
CL 307	26.7	50.0	38.3
RINOVO	25.0	50.0	37.5
OCTANE	25.0	48.3	36.7
PLAYOFF 2 (P02)	23.3	46.7	35.0
SIENNA	25.0	45.0	35.0
KARMA (PICK 10401)	23.3	43.3	33.3
PST-2NKM	25.0	41.7	33.3
RAD-PR55R	21.7	45.0	33.3
DLF LGD-3022	23.3	41.7	32.5
INSIGHT	25.0	40.0	32.5
ISG-30	21.7	43.3	32.5
PALMER V	21.7	43.3	32.5
PINNACLE	23.3	41.7	32.5
PIZZAZZ 2 GLR (PR 909)	23.3	41.7	32.5
RIO VISTA	21.7	43.3	32.5
ALLANTE	21.7	41.7	31.7
BONNEVILLE	23.3	40.0	31.7
CL 11601	25.0	38.3	31.7
PANGEA GLR (CL 11701)	21.7	41.7	31.7
JR-178	23.3	38.3	30.8
LINN	21.7	40.0	30.8
PPG-PR 164	23.3	38.3	30.8
PST-2ACR	20.0	41.7	30.8
2NJK	21.7	38.3	30.0
A-35	21.7	38.3	30.0
DOMINATOR (PST-2AG4)	21.7	38.3	30.0
IS-PR 488	23.3	36.7	30.0
PST-204D	21.7	38.3	30.0
PST-2DR9	21.7	38.3	30.0
EVOLUTION (S85)	20.0	40.0	30.0
BAR LP 10970	21.7	36.7	29.2
LTP-PR 135	18.3	40.0	29.2
PPG-PR 121	21.7	36.7	29.2
PPG-PR 136	21.7	36.7	29.2
PST-2TQL	20.0	38.3	29.2
SOX FAN (GM3)	21.7	36.7	29.2
WICKED (SRX-4RHD)	20.0	38.3	29.2
UNO	21.7	36.7	29.2
BAR LP 10969	21.7	35.0	28.3
BRIGHTSTAR SLT	20.0	36.7	28.3
ISG-36	18.3	36.7	27.5
SIDEWAYS (PSRX-S84)	15.0	40.0	27.5
SR 4650 (PSRX-3701)	21.7	33.3	27.5
BAR LP 7608	20.0	33.3	26.7
GO-DHS	20.0	33.3	26.7
ISG-31	21.7	31.7	26.7
JR-192	20.0	33.3	26.7
PST-2BNS	16.7	36.7	26.7

TABLE 32. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) AT EAST LANSING, MI 2/
2010 DATA

NAME	OCTOBER	NOVEMBER	MEAN
BAR LP 10972	20.0	31.7	25.8
DLF LGD-3026	18.3	33.3	25.8
APR 2036	16.7	33.3	25.0
CS-PR66	18.3	31.7	25.0
GO-PR60	20.0	30.0	25.0
HAVEN (APR 2038)	16.7	33.3	25.0
IS-PR 489	23.3	26.7	25.0
IS-PR 491	18.3	31.7	25.0
PICK 4DFHM	18.3	31.7	25.0
PPG-PR 128	18.3	31.7	25.0
PPG-PR 137	16.7	33.3	25.0
PPG-PR 165	18.3	31.7	25.0
PRX-4GM1	18.3	31.7	25.0
PST-2K9	15.0	35.0	25.0
APR 2320	18.3	30.0	24.2
CST	16.7	31.7	24.2
DLF LGT 4182	18.3	30.0	24.2
IS-PR 409	18.3	30.0	24.2
IS-PR 463	18.3	30.0	24.2
MANHATTAN 6 GLR (PST-2MAGS)	16.7	31.7	24.2
PPG-PR 133	16.7	30.0	23.3
APR 2445	18.3	26.7	22.5
CS-20	15.0	30.0	22.5
FIESTA 4	16.7	28.3	22.5
IS-PR 487	15.0	30.0	22.5
IS-PR 492	16.7	28.3	22.5
PPG-PR 134	15.0	30.0	22.5
PPG-PR 138	15.0	30.0	22.5
PPG-PR 140	16.7	28.3	22.5
IS-PR 469	16.7	26.7	21.7
IS-PR 479	15.0	28.3	21.7
LTP-RAE	13.3	30.0	21.7
MACH I	13.3	30.0	21.7
PSRX-4CAGL	16.7	26.7	21.7
PST-2MG7	16.7	26.7	21.7
RAD-PR62	18.3	25.0	21.7
SRX-4MSH	13.3	26.7	20.0
PPG-PR 142	13.3	25.0	19.2
PPG-PR 143	13.3	23.3	18.3
GO-G37	13.3	21.7	17.5
LSD VALUE	11.2	15.7	11.5
C.V. (%)	23.6	21.8	20.4

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

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

APPENDIX TABLE SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS */
Taken from the 2010 Perennial Ryegrass test-11 data report with permission from NTEP.
2011 DATA
TURFGRASS QUALITY RATINGS 1 9; 9=IDEAL TURF **/

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/	NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
2NJK	5.7	8.3	OCTANE	5.9	25.0
A-35	5.6	16.7	PLAYOFF 2 (PO2)	5.5	0.0
ALLANTE	5.8	25.0	PALMER V	5.9	41.7
APR 2036	5.9	25.0	PANGEA GLR (CL 11701)	6.2	66.7
APR 2320	5.8	25.0	KARMA (PICK 10401)	6.0	41.7
APR 2445	5.7	33.3	PICK 4DFHM	5.2	0.0
BAR LP 10969	5.5	0.0	PINNACLE	4.8	0.0
BAR LP 10970	5.9	16.7	PIZZAZZ 2 GLR (PR 909)	6.0	41.7
BAR LP 10972	5.4	0.0	PPG-PR 121	6.0	50.0
BAR LP 7608	5.3	8.3	PPG-PR 128	5.7	16.7
BONNEVILLE	5.6	8.3	PPG-PR 133	5.8	8.3
BRIGHTSTAR SLT	5.5	8.3	PPG-PR 134	5.9	25.0
CL 11601	6.0	41.7	PPG-PR 136	5.9	25.0
CL 307	5.8	16.7	PPG-PR 137	6.0	50.0
CS-20	5.6	25.0	PPG-PR 138	6.1	58.3
CS-PR66	5.8	25.0	PPG-PR 140	5.8	16.7
CST	5.7	25.0	PPG-PR 142	5.8	16.7
DLF LGD-3022	5.9	33.3	PPG-PR 143	5.8	8.3
DLF LGD-3026	5.5	8.3	PPG-PR 164	6.0	50.0
DLF LGT 4182	5.1	0.0	PPG-PR 165	5.9	41.7
DOMINATOR (PST-2AG4)	5.8	16.7	PRX-4GM1	5.8	8.3
FIESTA 4	5.9	25.0	PSRX-4CAGL	5.8	33.3
GO-DHS	5.0	0.0	PST-2O4D	5.6	0.0
GO-G37	5.5	8.3	PST-2ACR	5.6	25.0
GO-PR60	6.0	58.3	PST-2BNS	6.1	50.0
HAVEN (APR 2038)	5.5	0.0	PST-2DR9	5.5	0.0
INSIGHT	5.8	16.7	PST-2K9	5.6	0.0
IS-PR 409	5.9	41.7	MANHATTAN 6 GLR (PST-2MAGS)	5.5	0.0
IS-PR 463	6.1	66.7	PST-2MG7	5.6	8.3
IS-PR 469	6.0	58.3	PST-2NKM	5.7	16.7
IS-PR 479	5.8	25.0	PST-2TQL	5.5	8.3
IS-PR 487	6.1	58.3	RAD-PR55R	5.8	16.7
IS-PR 488	5.9	33.3	RAD-PR62	5.5	8.3
IS-PR 489	5.8	8.3	RINOVO	6.0	41.7
IS-PR 491	6.1	75.0	RIO VISTA	6.0	58.3
IS-PR 492	6.0	33.3	EVOLUTION (S85)	6.1	50.0
ISG-30	5.6	16.7	SIDEWAYS (PSRX-S84)	5.9	33.3
ISG-31	5.4	16.7	SIENNA	6.0	50.0
ISG-36	5.6	8.3	SOX FAN (GM3)	5.7	8.3
JR-178	6.1	75.0	SR 4650 (PSRX-3701)	6.1	41.7
JR-192	5.8	25.0	SRX-4MSH	5.6	0.0
LINN	3.4	0.0	WICKED (SRX-4RHD)	6.2	75.0
LTP-PR 135	5.8	16.7	UNO	5.8	16.7
LTP-RAE	5.7	16.7			
MACH I	5.6	16.7	LSD VALUE	0.2	
			C.V. (%)	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).
**/ 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.