

## **NATIONAL TURFGRASS EVALUATION PROGRAM**

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

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

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

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## **A Guide to NTEP Turfgrass Ratings**

### **Introduction**

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

### **General Considerations**

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

### **Turfgrass Quality**

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

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

### **Other Ratings**

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

## 2008 NATIONAL BENTGRASS TEST

(Greens)

### LOCATIONS SUBMITTING DATA FOR 2009

<u>State</u>	<u>Location</u>	<u>Code</u>
Arkansas	Fayetteville	AR1
Illinois	Glenview (North Shore C. C.)	IL4
Indiana	West Lafayette	IN1
Kentucky	Lexington	KY1
Massachusetts	Amherst (Traffic)	MA1
Minnesota	St. Paul	MN1
New Jersey	North Brunswick	NJ1
New York	Farmingdale (Bethpage State Park - Low Input)	NY2
North Carolina	Pinehurst (Pinehurst Resort)	NC2
Pennsylvania	University Park	PA1
Rhode Island	Kingston	RI1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Puyallup	WA3



2008 NATIONAL BENTGRASS TEST  
(Putting Green)

Entries and Sponsors

Entry No.	Name	Species	Sponsor
* 1	Penncross	creeping	Standard entry
* 2	Penn A-1	creeping	Standard entry
* 3	SR 7200	velvet	Standard entry
* 4	Declaration	creeping	Standard entry
5	LTP-FEC	creeping	Lebanon Seaboard Corp.
* 6	L-93	creeping	Standard entry
* 7	T-1	creeping	Jacklin Seed by Simplot
* 8	Alpha	creeping	Jacklin Seed by Simplot
* 9	Penn A-2	creeping	John Deere Landscapes
10	MVS-AP-101	creeping	Mountain View Seeds
11	A08-TDN2	creeping	The Scotts Company
12	AFM	creeping	John Deere Landscapes
* 13	Authority	creeping	John Deere Landscapes
14	SRP-1GMC	creeping	Seed Research of Oregon
15	SRP-1BLTR3	creeping	Seed Research of Oregon
16	PST-OJO	creeping	Penncross Bentgrass Assoc.
17	V8	creeping	Jacklin Seed by Simplot
* 18	Pin-up (HTM)	creeping	ProSeeds Marketing
* 19	Villa	velvet	Standard entry

\* COMMERCIALY AVAILABLE IN THE USA IN 2010.

TABLE A.

2009 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2008 NATIONAL BENTGRASS (GREEN) 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
AR1	SAND	6.1-6.5	0-60	0-150	4.1-5.0	FULL SUN	0.110 OR LOWER	TO PREVENT STRESS
IL4	SAND	7.1-7.5	61-150	0-150	-	FULL SUN	-	TO PREVENT STRESS
IN1	SAND	7.6-8.5	61-150	151-240	3.1-4.0	FULL SUN	0.110-0.125	TO PREVENT STRESS
KY1	SAND	6.6-7.0	0-60	0-150	3.1-4.0	FULL SUN	-	TO PREVENT STRESS
MA1	SAND	5.6-6.0	0-60	241-375	3.1-4.0	FULL SUN	-	TO PREVENT STRESS
MN1	SAND	7.6-8.5	0-60	0-150	3.1-4.0	FULL SUN	0.110 OR LOWER	TO PREVENT STRESS
NC2	SILTY CLAY AND CLAY	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	-	TO PREVENT STRESS
NJ1	SAND	6.1-6.5	0-60	0-150	5.1-6.0	FULL SUN	0.110 OR LOWER	TO PREVENT STRESS
NY2	LOAMY SAND	7.1-7.5	61-150	0-150	2.1-3.0	FULL SUN	-	TO PREVENT STRESS
PA1	LOAMY SAND	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	0.110 OR LOWER	TO PREVENT STRESS
RI1	SAND	-	-	-	5.1-6.0	FULL SUN	0.110 OR LOWER	TO PREVENT STRESS
UT1	LOAMY SAND	7.1-7.5	0-60	0-150	1.1-2.0	FULL SUN	0.110-0.125	TO PREVENT DORMANCY
VA1	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.110-0.125	TO PREVENT DORMANCY
WA3	SAND	6.1-6.5	61-150	0-150	6.1-7.0	FULL SUN	0.110-0.125	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2009

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
AR1				X	X	X	X	X	X				X		X
IL4					X	X	X	X	X	X			X	X	
IN1						X	X	X	X	X				X	
KY1						X	X	X	X	X					
MA1						X	X	X	X	X			X		
MN1									X	X			X		
NC1					X	X	X	X	X	X	X	X		X	
NJ1				X	X	X	X	X	X	X			X	X	X
NY2							X	X	X	X					
PA1					X	X	X	X	X	X			X		
RI1						X		X	X	X	X				
UT1						X	X	X	X	X			X		
VA1					X	X	X	X	X	X	X				
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2009

LOCATION	WEAR TOLERANCE	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	FROST TOLERANCE	WINTER COLOR	DOLLAR SPOT	PINK SNOW MOLD
AR1		X									
IL4											
IN1				X							X
KY1		X				X				X	
MA1	X		X								
MN1											
NC1				X	X				X		
NJ1					X						
NY2		X									
PA1		X							X	X	
RI1		X									
UT1						X	X				
VA1										X	
WA3		X						X			

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2009

LOCATION	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	PERCENT ESTABLISH- MENT	PERCENT ESTABLISHMENT SUMMER	FALL	NUMBER OF DOLLAR SPOT INFECTION CENTERS	RECOVERY FROM AERIFICATION	SCALPING RATINGS
AR1									
IL4	X			X					
IN1							X		
KY1									
MA1				X				X	
MN1				X					
* NC1				X					
NJ1				X					
NY2									
PA1		X							
RI1					X	X			
UT1	X			X					
VA1			X	X					
WA3							X		

\* MORE ESTABLISHMENT DATA FOR NC1 IN TABLE 7.

TABLE 1A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*\*/  
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	RI1	VA1	KY1	UT1	WA3	MEAN
LTP-FEC	6.3	6.0	7.7	5.5	6.6	6.4
A08-TDN2	6.3	5.0	7.1	5.0	6.6	6.0
MVS-AP-101	6.3	5.0	7.0	5.2	6.4	6.0
SRP-1GMC	6.0	5.1	7.0	5.1	6.1	5.9
* PENN A-1	5.6	5.6	7.1	5.1	5.7	5.8
* DECLARATION	6.0	5.0	6.9	4.9	6.2	5.8
V8	6.1	4.8	6.8	4.9	6.2	5.8
* PIN-UP (HTM)	5.7	5.2	7.0	4.7	6.1	5.7
AFM	5.6	5.3	7.1	4.7	6.0	5.7
PST-OJO	6.0	4.3	6.6	4.4	6.4	5.5
* AUTHORITY	5.7	4.7	6.6	4.7	5.8	5.5
* ALPHA	5.4	4.8	6.5	4.8	5.4	5.4
* T-1	5.6	4.5	6.4	4.7	5.6	5.4
SRP-1BLTR3	5.2	4.8	6.4	4.7	5.2	5.2
* L-93	4.8	5.0	6.4	4.7	4.6	5.1
* PENN A-2	4.8	5.0	6.4	4.4	4.8	5.1
* VILLA	5.3	3.8	6.4	2.9	6.5	5.0
* PENNCROSS	4.4	5.1	6.4	4.4	4.4	4.9
* SR 7200	4.5	3.4	5.9	2.2	5.8	4.4
LSD VALUE	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)	12.4	14.2	10.3	15.1	11.9	12.5

\* COMMERCIALY AVAILABLE IN THE USA IN 2010.

\*\*/ 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](http://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 1B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	RI1	VA1	KY1	UT1	WA3	MEAN
LTP-FEC	6.3	6.0	7.7	5.5	6.6	6.4
A08-TDN2	6.3	5.0	7.1	5.0	6.6	6.0
MVS-AP-101	6.3	5.0	7.0	5.2	6.4	6.0
SRP-1GMC	6.0	5.1	7.0	5.1	6.1	5.9
PENN A-1	5.6	5.6	7.1	5.1	5.7	5.8
DECLARATION	6.0	5.0	6.9	4.9	6.2	5.8
V8	6.1	4.8	6.8	4.9	6.2	5.8
PIN-UP (HTM)	5.7	5.2	7.0	4.7	6.1	5.7
AFM	5.6	5.3	7.1	4.7	6.0	5.7
PST-OJO	6.0	4.3	6.6	4.4	6.4	5.5
AUTHORITY	5.7	4.7	6.6	4.7	5.8	5.5
ALPHA	5.4	4.8	6.5	4.8	5.4	5.4
T-1	5.6	4.5	6.4	4.7	5.6	5.4
SRP-1BLTR3	5.2	4.8	6.4	4.7	5.2	5.2
L-93	4.8	5.0	6.4	4.7	4.6	5.1
PENN A-2	4.8	5.0	6.4	4.4	4.8	5.1
PENNCROSS	4.4	5.1	6.4	4.4	4.4	4.9
LSD VALUE	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)	12.2	13.8	10.2	14.4	12.0	12.3

TABLE 1C. MEAN TURFGRASS QUALITY RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
2009 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	RI1	VA1	KY1	UT1	WA3	MEAN
VILLA	5.3	3.8	6.4	2.9	6.5	5.0
SR 7200	4.5	3.4	5.9	2.2	5.8	4.4
LSD VALUE	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)	14.1	19.2	11.3	26.7	11.2	14.8

\*/ 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](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

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

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

TABLE 2A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2009 DATA

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

NAME	PA1	IN1	MN1	AR1	MEAN
MVS-AP-101	7.7	8.2	7.5	7.6	7.8
V8	7.5	8.0	7.3	7.3	7.5
A08-TDN2	7.6	8.2	7.0	7.3	7.5
SRP-1GMC	7.3	7.8	7.0	7.3	7.3
T-1	7.1	7.5	7.2	7.1	7.2
PST-OJO	7.4	8.0	6.5	6.8	7.2
DECLARATION	7.2	7.8	6.7	7.1	7.2
LTP-FEC	7.0	7.9	6.3	7.3	7.1
AUTHORITY	6.9	7.5	6.7	6.9	7.0
ALPHA	6.6	7.1	6.7	6.9	6.8
SRP-1BLTR3	6.4	6.9	6.4	6.7	6.6
PIN-UP (HTM)	6.5	7.3	5.5	6.5	6.4
PENN A-1	6.2	7.0	5.7	6.7	6.4
AFM	6.2	7.1	5.2	6.3	6.2
L-93	5.6	6.3	5.8	6.4	6.0
PENN A-2	5.3	6.2	5.1	6.0	5.6
PENNCROSS	4.8	5.7	4.5	5.7	5.1
VILLA	5.7	6.9	2.8	4.7	5.0
SR 7200	4.7	6.0	1.5	3.7	4.0
LSD VALUE	1.1	1.1	1.1	1.1	1.1
C.V. (%)	10.6	9.6	11.8	10.6	10.6

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

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

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



TABLE 2B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2009 DATA

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

NAME	PA1	IN1	MN1	AR1	MEAN
MVS-AP-101	7.7	8.2	7.5	7.6	7.8
V8	7.5	8.0	7.3	7.3	7.5
A08-TDN2	7.6	8.2	7.0	7.3	7.5
SRP-1GMC	7.3	7.8	7.0	7.3	7.3
T-1	7.1	7.5	7.2	7.1	7.2
PST-OJO	7.4	8.0	6.5	6.8	7.2
DECLARATION	7.2	7.8	6.7	7.1	7.2
LTP-FEC	7.0	7.9	6.3	7.3	7.1
AUTHORITY	6.9	7.5	6.7	6.9	7.0
ALPHA	6.6	7.1	6.7	6.9	6.8
SRP-1BLTR3	6.4	6.9	6.4	6.7	6.6
PIN-UP (HTM)	6.5	7.3	5.5	6.5	6.4
PENN A-1	6.2	7.0	5.7	6.7	6.4
AFM	6.2	7.1	5.2	6.3	6.2
L-93	5.6	6.3	5.8	6.4	6.0
PENN A-2	5.3	6.2	5.1	6.0	5.6
PENNCROSS	4.8	5.7	4.5	5.7	5.1
LSD VALUE	1.1	1.1	1.1	1.1	1.1
C.V. (%)	10.4	9.4	11.0	10.1	10.2

TABLE 2C. MEAN TURFGRASS QUALITY RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FOUR LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2009 DATA

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

VILLA	5.7	6.9	2.8	4.7	5.0
SR 7200	4.7	6.0	1.5	3.7	4.0
LSD VALUE	1.1	1.1	1.1	1.1	1.1
C.V. (%)	13.3	10.7	31.6	16.4	15.3

\*/ 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](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

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

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

TABLE 3A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
 A GREEN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 3 \*/  
 2009 DATA

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

NAME	NJ1
PST-OJO	7.6
A08-TDN2	7.4
MVS-AP-101	7.3
V8	7.0
VILLA	7.0
DECLARATION	6.7
SRP-1GMC	6.6
AUTHORITY	6.3
LTP-FEC	6.3
T-1	6.3
PIN-UP (HTM)	6.0
SR 7200	5.9
AFM	5.7
ALPHA	5.6
SRP-1BLTR3	5.2
PENN A-1	5.1
PENN A-2	4.0
L-93	3.9
PENNCROSS	3.2
LSD VALUE	1.1
C.V. (%)	11.6

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

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

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

TABLE 3B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 3 \*/  
2009 DATA

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

NAME	NJ1
PST-OJO	7.6
A08-TDN2	7.4
MVS-AP-101	7.3
V8	7.0
DECLARATION	6.7
SRP-1GMC	6.6
AUTHORITY	6.3
LTP-FEC	6.3
T-1	6.3
PIN-UP (HTM)	6.0
AFM	5.7
ALPHA	5.6
SRP-1BLTR3	5.2
PENN A-1	5.1
PENN A-2	4.0
L-93	3.9
PENNCROSS	3.2
LSD VALUE	1.1
C.V. (%)	11.7

TABLE 3C. MEAN TURFGRASS QUALITY RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 3 \*/  
2009 DATA

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

NAME	NJ1
VILLA	7.0
SR 7200	5.9
LSD VALUE	1.1
C.V. (%)	10.7

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

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

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

TABLE 4A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2009 DATA

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

NAME	GENETIC COLOR	WEAR 3/ TOLERANCE	DENSITY SPRING	PERCENT ESTABLISH- MENT	SCALPING RATINGS	QUALITY RATINGS					MEAN
						JUN	JUL	AUG	SEP	OCT	
PST-QJO	5.3	6.3	7.0	53.3	6.7	5.3	8.0	7.0	8.0	7.0	7.1
VILLA	5.3	7.0	9.0	46.7	6.3	6.3	7.3	7.3	7.0	6.0	6.8
ALPHA	7.0	6.7	6.3	56.7	6.7	6.3	7.7	7.0	6.3	5.3	6.5
LTP-FEC	6.3	6.0	6.3	60.0	5.3	6.0	7.0	6.7	7.3	5.3	6.5
T-1	7.0	5.7	6.7	50.0	6.7	6.7	7.0	6.7	6.7	5.7	6.5
A08-TDN2	6.3	5.7	6.0	50.0	6.7	5.7	7.0	6.3	7.0	6.0	6.4
PENN A-1	6.3	6.0	6.3	53.3	5.7	6.3	6.7	6.7	6.7	5.3	6.3
SRP-1GMC	6.3	5.7	7.0	63.3	5.7	6.3	6.0	6.0	7.3	6.0	6.3
MVS-AP-101	6.7	5.7	7.0	63.3	4.7	6.0	5.7	6.3	6.7	6.3	6.2
AUTHORITY	6.0	5.3	6.0	53.3	5.3	6.0	6.0	6.3	6.7	5.3	6.1
PIN-UP (HTM)	6.0	6.3	6.7	50.0	4.3	6.0	5.3	6.0	6.3	5.7	5.9
SR 7200	5.0	5.0	9.0	46.7	6.3	6.7	5.7	6.3	5.7	5.0	5.9
V8	6.3	5.7	6.7	50.0	5.7	5.7	6.0	6.3	6.7	5.0	5.9
SRP-1BLTR3	5.7	5.3	6.7	70.0	5.3	6.0	5.7	5.7	6.3	5.3	5.8
AFM	6.0	5.3	6.3	53.3	5.0	5.7	6.0	5.7	5.7	5.3	5.7
DECLARATION	5.7	5.0	5.7	43.3	4.0	5.7	5.0	5.3	6.3	5.7	5.6
L-93	6.7	5.3	5.7	50.0	7.0	6.0	5.7	5.7	5.3	5.3	5.6
PENN A-2	6.0	5.0	5.3	23.3	6.0	5.0	5.3	5.0	6.0	5.0	5.3
PENNCROSS	6.0	4.7	5.7	60.0	5.7	6.0	5.7	5.0	5.0	4.7	5.3
LSD VALUE	1.0	0.8	0.7	12.5	1.6	0.8	1.1	0.9	1.0	0.6	0.5
C.V. (%)	8.7	8.3	7.1	14.3	15.2	7.3	10.8	8.7	9.4	6.9	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/ TRAFFIC APPLIED USING A GROOMING BRUSH A HACHED TO A WALK BEHIND GREENS MOWER. WEAR WAS APPLIED IN SEPTEMBER 2009, USING 50 PASSES ON ONE DAY. PLOTS WERE RATED THREE DAYS AFTER TREATMENT FOR INJURY.

TABLE 4B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2009 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	WEAR 3/ TOLERANCE	DENSITY SPRING	PERCENT ESTABLISH- MENT	SCALPING RATINGS	QUALITY RATINGS					MEAN
						JUN	JUL	AUG	SEP	OCT	
PST-OJO	5.3	6.3	7.0	53.3	6.7	5.3	8.0	7.0	8.0	7.0	7.1
ALPHA	7.0	6.7	6.3	56.7	6.7	6.3	7.7	7.0	6.3	5.3	6.5
LTP-FEC	6.3	6.0	6.3	60.0	5.3	6.0	7.0	6.7	7.3	5.3	6.5
T-1	7.0	5.7	6.7	50.0	6.7	6.7	7.0	6.7	6.7	5.7	6.5
A08-TDN2	6.3	5.7	6.0	50.0	6.7	5.7	7.0	6.3	7.0	6.0	6.4
PENN A-1	6.3	6.0	6.3	53.3	5.7	6.3	6.7	6.7	6.7	5.3	6.3
SRP-1GMC	6.3	5.7	7.0	63.3	5.7	6.3	6.0	6.0	7.3	6.0	6.3
MVS-AP-101	6.7	5.7	7.0	63.3	4.7	6.0	5.7	6.3	6.7	6.3	6.2
AUTHORITY	6.0	5.3	6.0	53.3	5.3	6.0	6.0	6.3	6.7	5.3	6.1
PIN-UP (HTM)	6.0	6.3	6.7	50.0	4.3	6.0	5.3	6.0	6.3	5.7	5.9
V8	6.3	5.7	6.7	50.0	5.7	5.7	6.0	6.3	6.7	5.0	5.9
SRP-1BLTR3	5.7	5.3	6.7	70.0	5.3	6.0	5.7	5.7	6.3	5.3	5.8
AFM	6.0	5.3	6.3	53.3	5.0	5.7	6.0	5.7	5.7	5.3	5.7
DECLARATION	5.7	5.0	5.7	43.3	4.0	5.7	5.0	5.3	6.3	5.7	5.6
L-93	6.7	5.3	5.7	50.0	7.0	6.0	5.7	5.7	5.3	5.3	5.6
PENN A-2	6.0	5.0	5.3	23.3	6.0	5.0	5.3	5.0	6.0	5.0	5.3
PENNCROSS	6.0	4.7	5.7	60.0	5.7	6.0	5.7	5.0	5.0	4.7	5.3
LSD VALUE	1.0	0.9	0.9	13.2	1.6	0.8	1.2	0.9	1.1	0.6	0.5
C.V. (%)	8.2	8.8	7.9	14.7	15.4	7.1	11.3	8.3	9.7	7.1	5.1

TABLE 4C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2009 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	WEAR 3/ TOLERANCE	DENSITY SPRING	PERCENT ESTABLISH- MENT	SCALPING RATINGS	QUALITY RATINGS					MEAN
						JUN	JUL	AUG	SEP	OCT	
VILLA	5.3	7.0	9.0	46.7	6.3	6.3	7.3	7.3	7.0	6.0	6.8
SR 7200	5.0	5.0	9.0	46.7	6.3	6.7	5.7	6.3	5.7	5.0	5.9
LSD VALUE	1.0	0.9	0.9	13.2	1.6	0.8	1.2	0.9	1.1	0.6	0.5
C.V. (%)	7.9	0.0	0.0	0.0	11.2	6.3	6.3	10.3	6.4	0.0	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/ TRAFFIC APPLIED USING A GROOMING BRUSH A HACHED TO A WALK BEHIND GREENS MOWER. WEAR WAS APPLIED IN SEPTEMBER 2009, USING 50 PASSES ON ONE DAY. PLOTS WERE RATED THREE DAYS AFTER TREATMENT FOR INJURY.

TABLE 5A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER LOW INPUT AT FARMINGDALE (BETHPAGE STATE PARK), NY 1/  
2009 DATA

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

NAME	SEEDLING VIGOR	QUALITY RATINGS				MEAN
		JUL	AUG	SEP	OCT	
T-1	8.7	9.0	8.7	8.3	9.0	8.8
ALPHA	8.0	8.0	8.0	8.0	8.0	8.0
DECLARATION	8.0	8.0	8.0	8.0	8.0	8.0
PST-OJO	8.0	8.0	8.0	8.0	8.0	8.0
SR 7200	7.3	8.0	7.7	7.3	8.0	7.8
A08-TDN2	7.0	7.7	7.3	7.0	7.7	7.4
PIN-UP (HTM)	7.0	7.7	7.3	7.0	7.7	7.4
V8	7.0	7.3	7.0	7.0	7.0	7.1
MVS-AP-101	7.0	7.0	7.0	7.0	7.0	7.0
PENNGROSS	7.0	7.0	7.0	7.0	7.0	7.0
PENN A-1	6.7	7.0	7.0	6.7	7.0	6.9
VILLA	7.0	7.0	7.0	6.7	7.0	6.9
PENN A-2	6.7	7.0	6.7	6.3	7.0	6.8
LTP-FEC	6.3	7.0	6.7	6.0	6.7	6.6
AUTHORITY	6.0	6.7	6.0	6.0	6.3	6.3
L-93	6.0	6.7	6.0	6.0	6.3	6.3
AFM	6.0	6.0	6.0	6.0	6.0	6.0
SRP-1BLTR3	6.0	6.0	6.0	6.0	6.0	6.0
SRP-1GMC	5.0	5.0	5.0	5.0	5.0	5.0
LSD VALUE	0.4	0.4	0.4	0.4	0.4	0.2
C.V. (%)	4.0	3.8	4.2	4.0	3.8	2.1

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 5B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON A GREEN UNDER LOW INPUT AT FARMINGDALE (BETHPAGE STATE PARK), NY 1/ 2009 DATA

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

NAME	SEEDLING VIGOR	QUALITY RATINGS				MEAN
		JUL	AUG	SEP	OCT	
T-1	8.7	9.0	8.7	8.3	9.0	8.8
ALPHA	8.0	8.0	8.0	8.0	8.0	8.0
DECLARATION	8.0	8.0	8.0	8.0	8.0	8.0
PST-OJO	8.0	8.0	8.0	8.0	8.0	8.0
A08-TDN2	7.0	7.7	7.3	7.0	7.7	7.4
PIN-UP (HTM)	7.0	7.7	7.3	7.0	7.7	7.4
V8	7.0	7.3	7.0	7.0	7.0	7.1
MVS-AP-101	7.0	7.0	7.0	7.0	7.0	7.0
PENNCROSS	7.0	7.0	7.0	7.0	7.0	7.0
PENN A-1	6.7	7.0	7.0	6.7	7.0	6.9
PENN A-2	6.7	7.0	6.7	6.3	7.0	6.8
LTP-FEC	6.3	7.0	6.7	6.0	6.7	6.6
AUTHORITY	6.0	6.7	6.0	6.0	6.3	6.3
L-93	6.0	6.7	6.0	6.0	6.3	6.3
AFM	6.0	6.0	6.0	6.0	6.0	6.0
SRP-1BLTR3	6.0	6.0	6.0	6.0	6.0	6.0
SRP-1GMC	5.0	5.0	5.0	5.0	5.0	5.0
LSD VALUE	0.4	0.4	0.4	0.3	0.4	0.2
C.V. (%)	3.8	3.9	4.1	3.4	4.0	2.2

TABLE 5C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON A GREEN UNDER LOW INPUT AT FARMINGDALE (BETHPAGE STATE PARK), NY 1/ 2009 DATA

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

NAME	SEEDLING VIGOR	QUALITY RATINGS				MEAN
		JUL	AUG	SEP	OCT	
SR 7200	7.3	8.0	7.7	7.3	8.0	7.8
VILLA	7.0	7.0	7.0	6.7	7.0	6.9
LSD VALUE	0.4	0.4	0.4	0.3	0.4	0.2
C.V. (%)	5.7	0.0	5.6	5.8	0.0	1.4

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

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

TABLE 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH SHORE COUNTRY CLUB GOLF COURSE IN GLENVIEW, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR OCTOBER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						MEAN
					MAY	JUN	JUL	AUG	SEP	OCT	
LTP-FEC	6.3	4.0	6.3	53.3	5.7	7.3	6.7	7.0	6.7	6.7	6.7
V8	5.7	4.3	5.7	43.3	5.0	7.0	7.0	6.7	7.3	7.0	6.7
PST-OJO	4.0	5.0	4.0	58.3	4.7	6.7	6.7	7.3	6.7	6.7	6.4
SRP-1GMC	5.0	4.7	5.0	61.7	5.7	6.7	6.0	6.3	7.0	6.3	6.3
AUTHORITY	5.7	4.7	5.7	56.7	4.7	6.3	6.3	6.3	7.0	6.3	6.2
DECLARATION	6.3	4.3	6.3	65.0	5.0	6.3	6.0	6.3	6.3	7.0	6.2
MVS-AP-101	6.0	5.3	6.0	63.3	4.7	6.3	6.0	6.7	6.7	7.0	6.2
PIN-UP (HTM)	5.7	5.3	5.7	43.3	5.0	5.7	6.7	6.0	7.3	6.3	6.2
PENN A-1	6.0	4.7	6.0	60.0	4.3	6.0	6.0	7.0	6.7	6.0	6.0
SRP-1BLTR3	5.0	4.3	5.0	51.7	5.0	6.0	6.0	6.7	7.3	5.0	6.0
A08-TDN2	5.3	4.7	5.3	50.0	4.0	6.0	6.0	6.0	6.3	6.7	5.8
AFM	5.0	4.7	5.0	48.3	4.7	5.3	5.7	5.3	6.0	6.0	5.5
ALPHA	6.3	4.3	6.3	46.7	4.0	5.3	5.3	6.0	6.0	6.3	5.5
T-1	7.3	4.0	7.3	41.7	3.3	4.3	5.3	6.3	6.3	6.3	5.3
L-93	6.7	4.7	6.7	36.7	4.0	4.7	5.3	4.7	5.7	6.0	5.1
PENNCROSS	5.7	5.7	5.7	65.0	4.3	5.0	4.7	4.0	5.0	4.3	4.6
PENN A-2	6.3	4.0	6.3	28.3	3.0	4.0	4.3	3.7	4.7	5.7	4.2
SR 7200	6.0	4.0	6.0	41.7	3.0	2.7	3.3	2.7	4.0	4.7	3.4
VILLA	4.7	3.0	4.7	38.3	3.0	3.0	4.0	2.7	2.7	3.7	3.2
LSD VALUE	1.3	2.4	1.3	27.1	2.1	1.9	1.7	1.3	1.5	1.5	1.0
C.V. (%)	12.9	20.4	12.9	25.3	22.6	19.7	16.6	14.2	14.6	14.4	11.3

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

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



TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH SHORE COUNTRY CLUB GOLF COURSE IN GLENVIEW, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR OCTOBER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						MEAN
					MAY	JUN	JUL	AUG	SEP	OCT	
LTP-FEC	6.3	4.0	6.3	53.3	5.7	7.3	6.7	7.0	6.7	6.7	6.7
V8	5.7	4.3	5.7	43.3	5.0	7.0	7.0	6.7	7.3	7.0	6.7
PST-OJO	4.0	5.0	4.0	58.3	4.7	6.7	6.7	7.3	6.7	6.7	6.4
SRP-1GMC	5.0	4.7	5.0	61.7	5.7	6.7	6.0	6.3	7.0	6.3	6.3
AUTHORITY	5.7	4.7	5.7	56.7	4.7	6.3	6.3	6.3	7.0	6.3	6.2
DECLARATION	6.3	4.3	6.3	65.0	5.0	6.3	6.0	6.3	6.3	7.0	6.2
MVS-AP-101	6.0	5.3	6.0	63.3	4.7	6.3	6.0	6.7	6.7	7.0	6.2
PIN-UP (HTM)	5.7	5.3	5.7	43.3	5.0	5.7	6.7	6.0	7.3	6.3	6.2
PENN A-1	6.0	4.7	6.0	60.0	4.3	6.0	6.0	7.0	6.7	6.0	6.0
SRP-1BLTR3	5.0	4.3	5.0	51.7	5.0	6.0	6.0	6.7	7.3	5.0	6.0
A08-TDN2	5.3	4.7	5.3	50.0	4.0	6.0	6.0	6.0	6.3	6.7	5.8
AFM	5.0	4.7	5.0	48.3	4.7	5.3	5.7	5.3	6.0	6.0	5.5
ALPHA	6.3	4.3	6.3	46.7	4.0	5.3	5.3	6.0	6.0	6.3	5.5
T-1	7.3	4.0	7.3	41.7	3.3	4.3	5.3	6.3	6.3	6.3	5.3
L-93	6.7	4.7	6.7	36.7	4.0	4.7	5.3	4.7	5.7	6.0	5.1
PENNCROSS	5.7	5.7	5.7	65.0	4.3	5.0	4.7	4.0	5.0	4.3	4.6
PENN A-2	6.3	4.0	6.3	28.3	3.0	4.0	4.3	3.7	4.7	5.7	4.2
LSD VALUE	1.4	2.7	1.4	29.0	2.4	2.4	2.1	1.4	1.9	1.7	1.1
C.V. (%)	13.3	19.2	13.3	25.6	22.1	19.2	15.8	13.6	14.1	13.2	10.6

TABLE 6C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH SHORE COUNTRY CLUB GOLF COURSE IN GLENVIEW, IL 1/  
2009 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR OCTOBER	PERCENT ESTABLISH- MENT	QUALITY RATINGS						MEAN
					MAY	JUN	JUL	AUG	SEP	OCT	
SR 7200	6.0	4.0	6.0	41.7	3.0	2.7	3.3	2.7	4.0	4.7	3.4
VILLA	4.7	3.0	4.7	38.3	3.0	3.0	4.0	2.7	2.7	3.7	3.2
LSD VALUE	1.4	2.7	1.4	29.0	2.4	2.4	2.1	1.4	1.9	1.7	1.1
C.V. (%)	7.7	40.4	7.7	20.4	0.0	38.1	22.3	26.5	32.4	17.0	21.7

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

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

TABLE 7A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT GOLF COURSE IN PINEHURST, NC 1/  
2009 DATA

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

NAME	SPRING GREENUP	DENSITY SUMMER	DENSITY FALL	WINTER COLOR	QUALITY RATINGS								MEAN
					MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MVS-AP-101	8.0	8.3	7.7	5.7	8.0	7.0	8.3	7.7	7.7	8.0	7.7	8.0	7.8
PST-OJO	6.7	8.3	8.7	6.0	7.7	6.3	7.7	7.3	8.3	8.3	8.0	8.0	7.7
LTP-FEC	7.7	8.7	7.0	7.0	8.0	7.3	8.3	7.0	7.3	7.7	7.7	7.7	7.6
PIN-UP (HTM)	7.7	8.3	7.7	7.3	7.7	7.0	8.0	7.3	8.0	7.3	7.7	7.7	7.6
A08-TDN2	7.0	7.7	8.0	7.3	7.3	7.0	8.0	7.3	7.7	7.3	7.3	7.3	7.4
V8	7.7	8.3	8.0	7.0	7.7	8.0	8.0	6.3	7.0	7.7	7.3	7.3	7.4
T-1	7.0	8.3	8.0	7.0	7.3	8.0	7.7	6.3	8.0	8.7	6.3	6.3	7.3
DECLARATION	7.3	8.0	7.3	6.0	7.3	7.3	7.7	6.0	7.0	7.3	7.3	7.3	7.2
AUTHORITY	6.3	7.3	7.3	7.3	7.3	7.3	7.3	5.7	7.3	7.3	7.0	7.0	7.0
SRP-1GMC	7.7	8.3	7.0	6.7	7.3	7.3	8.0	5.3	7.7	7.3	6.7	6.7	7.0
AFM	6.7	7.3	7.0	6.3	7.0	6.7	7.0	6.0	7.3	6.7	6.7	6.7	6.8
SRP-1BLTR3	5.7	7.0	7.7	6.7	6.7	6.3	6.0	6.0	7.0	6.7	6.3	6.3	6.4
ALPHA	6.0	7.3	6.7	6.0	6.3	6.0	6.7	5.7	6.7	6.3	6.3	6.0	6.3
PENN A-1	6.0	6.0	7.0	7.0	7.0	5.7	5.7	5.3	6.7	6.3	6.0	6.0	6.1
L-93	5.7	5.7	6.7	6.7	6.0	6.0	5.7	4.7	6.0	6.0	6.7	6.3	5.9
PENN A-2	5.7	4.0	6.3	6.0	5.3	5.7	4.3	4.3	6.3	6.3	5.7	5.7	5.5
VILLA	4.7	8.7	8.7	8.0	5.7	4.3	5.3	3.3	4.7	4.7	6.7	6.0	5.1
SR 7200	5.0	7.7	8.7	8.0	5.7	4.3	4.7	3.3	4.3	4.7	6.0	5.7	4.8
PENNCROSS	5.0	4.0	5.3	4.0	4.7	3.7	4.0	3.3	4.7	4.0	4.0	4.0	4.0
LSD VALUE	0.8	1.0	0.8	1.0	0.8	1.3	1.2	2.4	0.9	0.7	0.9	0.9	0.6
C.V. (%)	8.1	8.9	7.0	9.1	7.9	12.7	11.5	22.9	8.5	7.1	8.7	8.6	6.4

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

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

TABLE 7A.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT GOLF COURSE IN PINEHURST, NC 1/  
2009 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS								
	OCT 3 2008	OCT 20 2008	NOV 3 2008	NOV 17 2008	DEC 2 2008	DEC 22 2008	JAN 2009	FEB 2009	MAR 2009
MVS-AP-101	13.3	10.0	21.7	53.3	66.7	80.0	96.3	91.7	96.3
PST-OJO	10.0	11.7	20.0	40.0	51.7	71.7	83.3	80.0	93.0
LTP-FEC	16.7	15.0	31.7	58.3	71.7	88.3	94.7	96.0	99.0
PIN-UP (HTM)	15.0	11.7	30.0	53.3	65.0	83.3	86.7	88.3	95.0
A08-TDN2	16.7	15.0	30.0	56.7	66.7	83.3	90.0	86.7	96.3
V8	10.0	11.7	33.3	61.7	73.3	85.0	88.3	90.0	94.7
T-1	15.0	15.0	38.3	76.7	85.0	90.0	93.3	95.0	99.0
DECLARATION	16.7	15.0	28.3	56.7	68.3	80.0	90.0	88.3	94.7
AUTHORITY	16.7	18.3	35.0	65.0	76.7	86.7	88.3	90.0	96.3
SRP-1GMC	14.0	15.0	41.7	70.0	81.7	88.3	93.0	93.0	97.7
AFM	13.3	13.3	25.0	51.7	61.7	81.7	88.3	86.7	96.0
SRP-1BLTR3	13.3	13.3	23.3	58.3	65.0	80.0	90.0	86.7	96.3
ALPHA	16.7	11.7	30.0	60.0	73.3	86.7	88.0	88.3	96.0
PENN A-1	16.7	15.0	30.0	65.0	75.0	88.3	93.0	94.7	96.0
L-93	13.3	16.7	41.7	78.3	85.0	91.7	93.3	93.0	97.7
PENN A-2	10.0	10.0	23.3	43.3	55.0	71.7	80.0	81.7	90.0
VILLA	23.3	23.3	40.0	68.3	80.0	86.7	91.7	91.7	94.7
SR 7200	16.7	18.3	33.3	58.3	68.3	81.7	86.7	88.3	93.0
PENNCROSS	13.3	16.7	36.7	66.7	75.0	86.7	90.0	90.0	96.3
LSD VALUE	6.7	5.9	20.2	29.9	24.2	22.6	14.9	14.1	11.2
C.V. (%)	23.0	21.9	27.9	21.5	15.8	10.1	6.5	6.5	3.9

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 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT GOLF COURSE IN PINEHURST, NC 1/  
2009 DATA

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

NAME	QUALITY RATINGS												MEAN
	SPRING GREENUP	DENSITY SUMMER	DENSITY FALL	WINTER COLOR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MVS-AP-101	8.0	8.3	7.7	5.7	8.0	7.0	8.3	7.7	7.7	8.0	7.7	8.0	7.8
PST-OJO	6.7	8.3	8.7	6.0	7.7	6.3	7.7	7.3	8.3	8.3	8.0	8.0	7.7
LTP-FEC	7.7	8.7	7.0	7.0	8.0	7.3	8.3	7.0	7.3	7.7	7.7	7.7	7.6
PIN-UP (HTM)	7.7	8.3	7.7	7.3	7.7	7.0	8.0	7.3	8.0	7.3	7.7	7.7	7.6
A08-TDN2	7.0	7.7	8.0	7.3	7.3	7.0	8.0	7.3	7.7	7.3	7.3	7.3	7.4
V8	7.7	8.3	8.0	7.0	7.7	8.0	8.0	6.3	7.0	7.7	7.3	7.3	7.4
T-1	7.0	8.3	8.0	7.0	7.3	8.0	7.7	6.3	8.0	8.7	6.3	6.3	7.3
DECLARATION	7.3	8.0	7.3	6.0	7.3	7.3	7.7	6.0	7.0	7.3	7.3	7.3	7.2
AUTHORITY	6.3	7.3	7.3	7.3	7.3	7.3	7.3	5.7	7.3	7.3	7.0	7.0	7.0
SRP-1GMC	7.7	8.3	7.0	6.7	7.3	7.3	8.0	5.3	7.7	7.3	6.7	6.7	7.0
AFM	6.7	7.3	7.0	6.3	7.0	6.7	7.0	6.0	7.3	6.7	6.7	6.7	6.8
SRP-1BLTR3	5.7	7.0	7.7	6.7	6.7	6.3	6.0	6.0	7.0	6.7	6.3	6.3	6.4
ALPHA	6.0	7.3	6.7	6.0	6.3	6.0	6.7	5.7	6.7	6.3	6.3	6.0	6.3
PENN A-1	6.0	6.0	7.0	7.0	7.0	5.7	5.7	5.3	6.7	6.3	6.0	6.0	6.1
L-93	5.7	5.7	6.7	6.7	6.0	6.0	5.7	4.7	6.0	6.0	6.7	6.3	5.9
PENN A-2	5.7	4.0	6.3	6.0	5.3	5.7	4.3	4.3	6.3	6.3	5.7	5.7	5.5
PENNCROSS	5.0	4.0	5.3	4.0	4.7	3.7	4.0	3.3	4.7	4.0	4.0	4.0	4.0
LSD VALUE	0.9	1.0	0.8	1.1	0.8	1.3	1.2	2.8	1.0	0.8	1.0	0.9	0.6
C.V. (%)	8.1	9.1	7.1	9.8	7.5	11.9	11.0	22.6	8.4	7.2	9.0	8.7	6.3

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

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

TABLE 7B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT GOLF COURSE IN PINEHURST, NC 1/  
2009 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS								
	OCT 3 2008	OCT 20 2008	NOV 3 2008	NOV 17 2008	DEC 2 2008	DEC 22 2008	JAN 2009	FEB 2009	MAR 2009
MVS-AP-101	13.3	10.0	21.7	53.3	66.7	80.0	96.3	91.7	96.3
PST-OJO	10.0	11.7	20.0	40.0	51.7	71.7	83.3	80.0	93.0
LTP-FEC	16.7	15.0	31.7	58.3	71.7	88.3	94.7	96.0	99.0
PIN-UP (HTM)	15.0	11.7	30.0	53.3	65.0	83.3	86.7	88.3	95.0
A08-TDN2	16.7	15.0	30.0	56.7	66.7	83.3	90.0	86.7	96.3
V8	10.0	11.7	33.3	61.7	73.3	85.0	88.3	90.0	94.7
T-1	15.0	15.0	38.3	76.7	85.0	90.0	93.3	95.0	99.0
DECLARATION	16.7	15.0	28.3	56.7	68.3	80.0	90.0	88.3	94.7
AUTHORITY	16.7	18.3	35.0	65.0	76.7	86.7	88.3	90.0	96.3
SRP-1GMC	14.0	15.0	41.7	70.0	81.7	88.3	93.0	93.0	97.7
AFM	13.3	13.3	25.0	51.7	61.7	81.7	88.3	86.7	96.0
SRP-1BLTR3	13.3	13.3	23.3	58.3	65.0	80.0	90.0	86.7	96.3
ALPHA	16.7	11.7	30.0	60.0	73.3	86.7	88.0	88.3	96.0
PENN A-1	16.7	15.0	30.0	65.0	75.0	88.3	93.0	94.7	96.0
L-93	13.3	16.7	41.7	78.3	85.0	91.7	93.3	93.0	97.7
PENN A-2	10.0	10.0	23.3	43.3	55.0	71.7	80.0	81.7	90.0
PENNCROSS	13.3	16.7	36.7	66.7	75.0	86.7	90.0	90.0	96.3
LSD VALUE	8.6	7.2	21.4	29.7	23.4	22.3	14.8	12.7	9.8
C.V. (%)	24.5	22.8	29.5	22.0	15.7	10.3	6.6	6.3	3.7

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

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

TABLE 7C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON A GREEN AT PINEHURST RESORT GOLF COURSE IN PINEHURST, NC 1/ 2009 DATA

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

NAME	SPRING GREENUP	DENSITY SUMMER	DENSITY FALL	WINTER COLOR	QUALITY RATINGS								MEAN
					MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
VILLA	4.7	8.7	8.7	8.0	5.7	4.3	5.3	3.3	4.7	4.7	6.7	6.0	5.1
SR 7200	5.0	7.7	8.7	8.0	5.7	4.3	4.7	3.3	4.3	4.7	6.0	5.7	4.8
LSD VALUE	0.9	1.0	0.8	1.1	0.8	1.3	1.2	2.8	1.0	0.8	1.0	0.9	0.6
C.V. (%)	8.4	8.7	8.2	0.0	0.0	0.0	8.2	0.0	9.1	0.0	6.4	7.0	1.8

TABLE 7C. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON A GREEN AT PINEHURST RESORT GOLF COURSE IN PINEHURST, NC 1/ 2009 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS								
	OCT 3 2008	OCT 20 2008	NOV 3 2008	NOV 17 2008	DEC 2 2008	DEC 22 2008	JAN 2009	FEB 2009	MAR 2009
VILLA	23.3	23.3	40.0	68.3	80.0	86.7	91.7	91.7	94.7
SR 7200	16.7	18.3	33.3	58.3	68.3	81.7	86.7	88.3	93.0
LSD VALUE	8.6	7.2	21.4	29.7	23.4	22.3	14.8	12.7	9.8
C.V. (%)	10.2	17.0	14.7	5.6	9.9	4.2	4.0	2.3	5.0

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

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

TABLE 8A. GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	AR1	MN1	NJ1	PA1	UT1	WA3	MEAN
T-1	9.0	9.0	7.7	9.0	4.7	7.7	7.8
PENN A-1	6.3	5.3	6.7	6.7	7.3	7.3	6.6
A08-TDN2	8.0	6.0	6.3	6.3	6.7	6.3	6.6
PIN-UP (HTM)	8.0	6.0	4.7	7.0	6.7	7.0	6.6
ALPHA	8.0	7.0	5.7	5.7	5.0	7.3	6.4
SRP-1GMC	8.0	4.3	6.7	6.0	5.7	7.0	6.3
L-93	7.0	7.0	4.3	6.0	6.0	7.0	6.2
MVS-AP-101	6.7	5.3	5.7	6.0	6.3	6.3	6.1
AUTHORITY	6.3	5.3	4.7	6.0	7.3	6.3	6.0
V8	7.0	6.3	6.0	6.3	4.3	6.0	6.0
PENN A-2	6.3	5.7	4.7	6.0	6.0	6.7	5.9
LTP-FEC	7.3	5.0	5.0	6.0	5.0	6.7	5.8
PENNCROSS	6.0	6.7	3.3	5.3	5.7	7.0	5.7
SRP-1BLTR3	7.0	5.0	4.3	5.7	5.7	5.7	5.6
DECLARATION	7.0	4.7	4.3	5.7	5.0	6.3	5.5
AFM	6.7	3.7	4.0	5.3	4.3	6.0	5.0
PST-OJO	7.3	3.7	5.0	4.3	4.0	5.0	4.9
SR 7200	5.0	2.7	2.0	4.3	3.0	5.7	3.8
VILLA	5.3	2.3	3.7	3.7	2.7	5.0	3.8
LSD VALUE	0.9	1.3	1.3	0.9	1.4	0.7	0.5
C.V. (%)	7.8	15.0	16.4	9.3	16.1	6.8	11.8

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

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

TABLE 8B. GENETIC COLOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/							
NAME	AR1	MN1	NJ1	PA1	UT1	WA3	MEAN
T-1	9.0	9.0	7.7	9.0	4.7	7.7	7.8
PENN A-1	6.3	5.3	6.7	6.7	7.3	7.3	6.6
A08-TDN2	8.0	6.0	6.3	6.3	6.7	6.3	6.6
PIN-UP (HTM)	8.0	6.0	4.7	7.0	6.7	7.0	6.6
ALPHA	8.0	7.0	5.7	5.7	5.0	7.3	6.4
SRP-1GMC	8.0	4.3	6.7	6.0	5.7	7.0	6.3
L-93	7.0	7.0	4.3	6.0	6.0	7.0	6.2
MVS-AP-101	6.7	5.3	5.7	6.0	6.3	6.3	6.1
AUTHORITY	6.3	5.3	4.7	6.0	7.3	6.3	6.0
V8	7.0	6.3	6.0	6.3	4.3	6.0	6.0
PENN A-2	6.3	5.7	4.7	6.0	6.0	6.7	5.9
LTP-FEC	7.3	5.0	5.0	6.0	5.0	6.7	5.8
PENNCROSS	6.0	6.7	3.3	5.3	5.7	7.0	5.7
SRP-1BLTR3	7.0	5.0	4.3	5.7	5.7	5.7	5.6
DECLARATION	7.0	4.7	4.3	5.7	5.0	6.3	5.5
AFM	6.7	3.7	4.0	5.3	4.3	6.0	5.0
PST-OJO	7.3	3.7	5.0	4.3	4.0	5.0	4.9
LSD VALUE	0.9	1.3	1.4	0.9	1.4	0.7	0.5
C.V. (%)	7.8	14.5	16.3	8.9	15.9	6.7	11.7

TABLE 8C. GENETIC COLOR RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/							
NAME	AR1	MN1	NJ1	PA1	UT1	WA3	MEAN
SR 7200	5.0	2.7	2.0	4.3	3.0	5.7	3.8
VILLA	5.3	2.3	3.7	3.7	2.7	5.0	3.8
LSD VALUE	0.7	0.9	0.7	0.9	0.7	0.7	0.3
C.V. (%)	7.9	23.1	14.4	14.4	14.4	7.7	12.5

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

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



TABLE 9A. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

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

NAME	IN1	NJ1	WA3	MEAN
MVS-AP-101	7.3	6.0	6.7	6.7
T-1	8.7	5.3	5.7	6.6
A08-TDN2	7.7	5.7	5.7	6.3
ALPHA	7.7	5.3	6.0	6.3
DECLARATION	7.0	6.0	6.0	6.3
LTP-FEC	7.3	6.0	5.7	6.3
SRP-1GMC	7.3	6.3	5.3	6.3
SRP-1BLTR3	7.0	6.0	5.0	6.0
AFM	7.3	4.7	5.7	5.9
PIN-UP (HTM)	7.0	4.7	6.0	5.9
V8	6.7	4.7	6.0	5.8
AUTHORITY	7.0	5.3	5.0	5.8
SR 7200	5.7	4.7	6.3	5.6
PST-OJO	5.7	4.7	6.0	5.4
PENN A-1	7.0	4.0	4.7	5.2
VILLA	5.7	3.3	6.7	5.2
PENN A-2	7.0	3.3	5.0	5.1
L-93	7.0	4.0	4.3	5.1
PENNCROSS	7.0	3.7	4.3	5.0
LSD VALUE	1.1	2.2	1.2	0.9
C.V. (%)	9.6	28.1	13.4	16.9

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

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

TABLE 9B. SPRING GREENUP RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1	NJ1	WA3	MEAN
MVS-AP-101	7.3	6.0	6.7	6.7
T-1	8.7	5.3	5.7	6.6
A08-TDN2	7.7	5.7	5.7	6.3
ALPHA	7.7	5.3	6.0	6.3
DECLARATION	7.0	6.0	6.0	6.3
LTP-FEC	7.3	6.0	5.7	6.3
SRP-1GMC	7.3	6.3	5.3	6.3
SRP-1BLTR3	7.0	6.0	5.0	6.0
AFM	7.3	4.7	5.7	5.9
PIN-UP (HTM)	7.0	4.7	6.0	5.9
V8	6.7	4.7	6.0	5.8
AUTHORITY	7.0	5.3	5.0	5.8
PST-OJO	5.7	4.7	6.0	5.4
PENN A-1	7.0	4.0	4.7	5.2
PENN A-2	7.0	3.3	5.0	5.1
L-93	7.0	4.0	4.3	5.1
PENNCROSS	7.0	3.7	4.3	5.0
LSD VALUE	1.0	2.3	1.2	0.9
C.V. (%)	9.0	27.9	14.0	16.9

TABLE 9C. SPRING GREENUP RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1	NJ1	WA3	MEAN
SR 7200	5.7	4.7	6.3	5.6
VILLA	5.7	3.3	6.7	5.2
LSD VALUE	1.5	1.9	0.9	0.8
C.V. (%)	16.1	28.9	8.9	16.9

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

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

TABLE 10A. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	AR1	NJ1	MEAN
VILLA	8.7	9.0	8.8
PST-OJO	8.3	8.0	8.2
A08-TDN2	8.0	8.0	8.0
MVS-AP-101	8.0	8.0	8.0
SR 7200	8.3	7.7	8.0
V8	8.3	7.3	7.8
DECLARATION	7.7	6.7	7.2
AUTHORITY	7.3	6.7	7.0
LTP-FEC	7.0	7.0	7.0
T-1	7.7	6.0	6.8
SRP-1GMC	7.0	6.3	6.7
AFM	7.0	6.0	6.5
PENN A-1	7.3	5.7	6.5
PIN-UP (HTM)	7.7	5.0	6.3
ALPHA	7.3	5.3	6.3
SRP-1BLTR3	7.0	5.3	6.2
PENN A-2	7.0	3.7	5.3
L-93	6.7	3.3	5.0
PENNCROSS	6.0	1.3	3.7
LSD VALUE	0.8	1.1	0.7
C.V. (%)	6.6	11.0	8.7

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

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

TABLE 10B. LEAF TEXTURE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	AR1	NJ1	MEAN
PST-OJO	8.3	8.0	8.2
A08-TDN2	8.0	8.0	8.0
MVS-AP-101	8.0	8.0	8.0
V8	8.3	7.3	7.8
DECLARATION	7.7	6.7	7.2
AUTHORITY	7.3	6.7	7.0
LTP-FEC	7.0	7.0	7.0
T-1	7.7	6.0	6.8
SRP-1GMC	7.0	6.3	6.7
AFM	7.0	6.0	6.5
PENN A-1	7.3	5.7	6.5
PIN-UP (HTM)	7.7	5.0	6.3
ALPHA	7.3	5.3	6.3
SRP-1BLTR3	7.0	5.3	6.2
PENN A-2	7.0	3.7	5.3
L-93	6.7	3.3	5.0
PENNCROSS	6.0	1.3	3.7
LSD VALUE	0.8	1.1	0.7
C.V. (%)	6.6	11.9	9.1

TABLE 10C. LEAF TEXTURE RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	AR1	NJ1	MEAN
VILLA	8.7	9.0	8.8
SR 7200	8.3	7.7	8.0
LSD VALUE	0.9	0.7	0.6
C.V. (%)	6.8	4.9	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 11A. SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	AR1	KY1	PA1	RI1	WA3	MEAN
PENNCROSS	6.7	7.0	7.7	4.7	7.7	6.7
LTP-FEC	7.7	6.0	8.0	5.7	6.0	6.7
PENN A-1	6.3	7.0	7.3	5.7	6.3	6.5
DECLARATION	6.7	6.7	7.3	5.0	5.7	6.3
A08-TDN2	5.7	5.7	7.0	7.0	5.3	6.1
ALPHA	6.7	5.0	7.3	5.3	6.0	6.1
MVS-AP-101	6.0	5.7	6.7	5.3	5.7	5.9
T-1	6.7	6.0	6.7	4.0	5.7	5.8
SRP-1GMC	6.0	5.7	7.0	4.7	5.3	5.7
VILLA	6.3	5.3	7.0	3.0	7.0	5.7
AFM	5.0	7.3	6.7	4.3	5.0	5.7
SRP-1BLTR3	6.0	5.7	6.0	5.3	5.0	5.6
AUTHORITY	5.3	6.7	6.7	3.3	5.7	5.5
PST-OJO	5.0	6.7	7.0	3.0	5.7	5.5
L-93	4.7	6.3	7.7	2.0	6.0	5.3
SR 7200	5.3	5.0	7.0	2.3	5.7	5.1
V8	4.7	6.3	5.3	4.3	4.3	5.0
PIN-UP (HTM)	4.7	5.7	6.0	2.0	4.3	4.5
PENN A-2	3.3	5.0	5.3	1.0	4.0	3.7
LSD VALUE	1.7	1.7	0.8	2.2	1.7	0.8
C.V. (%)	18.7	17.8	7.3	33.4	18.3	18.5

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

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

TABLE 11B. SEEDLING VIGOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/						
NAME	AR1	KY1	PA1	RI1	WA3	MEAN
PENNCROSS	6.7	7.0	7.7	4.7	7.7	6.7
LTP-FEC	7.7	6.0	8.0	5.7	6.0	6.7
PENN A-1	6.3	7.0	7.3	5.7	6.3	6.5
DECLARATION	6.7	6.7	7.3	5.0	5.7	6.3
A08-TDN2	5.7	5.7	7.0	7.0	5.3	6.1
ALPHA	6.7	5.0	7.3	5.3	6.0	6.1
MVS-AP-101	6.0	5.7	6.7	5.3	5.7	5.9
T-1	6.7	6.0	6.7	4.0	5.7	5.8
SRP-1GMC	6.0	5.7	7.0	4.7	5.3	5.7
AFM	5.0	7.3	6.7	4.3	5.0	5.7
SRP-1BLTR3	6.0	5.7	6.0	5.3	5.0	5.6
AUTHORITY	5.3	6.7	6.7	3.3	5.7	5.5
PST-OJO	5.0	6.7	7.0	3.0	5.7	5.5
L-93	4.7	6.3	7.7	2.0	6.0	5.3
V8	4.7	6.3	5.3	4.3	4.3	5.0
PIN-UP (HTM)	4.7	5.7	6.0	2.0	4.3	4.5
PENN A-2	3.3	5.0	5.3	1.0	4.0	3.7
LSD VALUE	1.7	1.8	0.8	2.3	1.6	0.8
C.V. (%)	18.5	18.4	7.7	33.7	18.5	18.9

TABLE 11C. SEEDLING VIGOR RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/						
NAME	AR1	KY1	PA1	RI1	WA3	MEAN
VILLA	6.3	5.3	7	3.0	7.0	5.7
SR 7200	5.3	5.0	7	2.3	5.7	5.1
LSD VALUE	1.9	0.7	0	0.7	1.7	0.5
C.V. (%)	19.8	7.9	0	15.3	17.1	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 12A. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1
PST-OJO	9.0
SR 7200	9.0
V8	9.0
VILLA	9.0
LTP-FEC	8.7
A08-TDN2	8.3
DECLARATION	8.3
AUTHORITY	8.0
MVS-AP-101	8.0
T-1	8.0
PIN-UP (HTM)	7.7
SRP-1GMC	7.7
ALPHA	7.0
PENN A-1	7.0
SRP-1BLTR3	7.0
L-93	6.7
AFM	6.3
PENN A-2	5.3
PENNCROSS	4.7
LSD VALUE	0.9
C.V. (%)	7.4

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

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

TABLE 12B. SUMMER DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1
PST-OJO	9.0
V8	9.0
LTP-FEC	8.7
A08-TDN2	8.3
DECLARATION	8.3
AUTHORITY	8.0
MVS-AP-101	8.0
T-1	8.0
PIN-UP (HTM)	7.7
SRP-1GMC	7.7
ALPHA	7.0
PENN A-1	7.0
SRP-1BLTR3	7.0
L-93	6.7
AFM	6.3
PENN A-2	5.3
PENNCROSS	4.7
LSD VALUE	1.0
C.V. (%)	8.0

TABLE 12C. SUMMER DENSITY RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1
SR 7200	9
VILLA	9
LSD VALUE	0
C.V. (%)	0

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

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



TABLE 13A. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

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

NAME	NJ1
VILLA	8.7
PST-OJO	8.3
A08-TDN2	7.7
MVS-AP-101	7.7
V8	7.3
SR 7200	7.0
DECLARATION	6.7
LTP-FEC	6.7
SRP-1GMC	6.7
AUTHORITY	5.7
T-1	5.7
PIN-UP (HTM)	5.3
AFM	5.0
SRP-1BLTR3	5.0
ALPHA	4.3
PENN A-1	4.0
PENN A-2	3.7
L-93	2.0
PENNCROSS	1.0
LSD VALUE	1.1
C.V. (%)	11.6

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

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

TABLE 13B. FALL DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	NJ1
PST-OJO	8.3
A08-TDN2	7.7
MVS-AP-101	7.7
V8	7.3
DECLARATION	6.7
LTP-FEC	6.7
SRP-1GMC	6.7
AUTHORITY	5.7
T-1	5.7
PIN-UP (HTM)	5.3
AFM	5.0
SRP-1BLTR3	5.0
ALPHA	4.3
PENN A-1	4.0
PENN A-2	3.7
L-93	2.0
PENNCROSS	1.0
LSD VALUE	1.0
C.V. (%)	11.8

TABLE 13C. FALL DENSITY RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	NJ1
VILLA	8.7
SR 7200	7.0
LSD VALUE	1.3
C.V. (%)	10.4

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

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

TABLE 14A. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KY1	UT1	MEAN
LTP-FEC	84.3	56.7	70.5
PENNCROSS	92.7	43.3	68.0
VILLA	80.7	53.3	67.0
SRP-1GMC	80.0	53.3	66.7
SR 7200	83.3	50.0	66.7
DECLARATION	93.0	40.0	66.5
MVS-AP-101	81.7	50.0	65.8
A08-TDN2	89.7	40.0	64.8
AFM	86.3	40.0	63.2
ALPHA	84.0	40.0	62.0
PST-OJO	90.3	33.3	61.8
V8	82.3	40.0	61.2
T-1	91.7	30.0	60.8
L-93	88.3	30.0	59.2
PENN A-1	75.0	36.7	55.8
AUTHORITY	84.3	26.7	55.5
SRP-1BLTR3	76.7	33.3	55.0
PIN-UP (HTM)	75.7	33.3	54.5
PENN A-2	80.0	23.3	51.7
LSD VALUE	18.4	12.4	11.1
C.V. (%)	13.6	19.5	15.8

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 14B. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KY1	UT1	MEAN
LTP-FEC	84.3	56.7	70.5
PENNCROSS	92.7	43.3	68.0
SRP-1GMC	80.0	53.3	66.7
DECLARATION	93.0	40.0	66.5
MVS-AP-101	81.7	50.0	65.8
A08-TDN2	89.7	40.0	64.8
AFM	86.3	40.0	63.2
ALPHA	84.0	40.0	62.0
PST-OJO	90.3	33.3	61.8
V8	82.3	40.0	61.2
T-1	91.7	30.0	60.8
L-93	88.3	30.0	59.2
PENN A-1	75.0	36.7	55.8
AUTHORITY	84.3	26.7	55.5
SRP-1BLTR3	76.7	33.3	55.0
PIN-UP (HTM)	75.7	33.3	54.5
PENN A-2	80.0	23.3	51.7
LSD VALUE	18.9	12.9	11.5
C.V. (%)	13.9	21.0	16.4

TABLE 14C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KY1	UT1	MEAN
VILLA	80.7	53.3	67.0
SR 7200	83.3	50.0	66.7
LSD VALUE	13.7	6.6	7.6
C.V. (%)	10.4	7.9	10.0

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

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

TABLE 15A. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	UT1
LTP-FEC	83.3
ALPHA	73.3
MVS-AP-101	73.3
SRP-1GMC	73.3
V8	73.3
A08-TDN2	70.0
AFM	70.0
PENN A-1	70.0
PIN-UP (HTM)	70.0
PST-OJO	70.0
T-1	70.0
VILLA	70.0
AUTHORITY	66.7
PENNCROSS	63.3
SRP-1BLTR3	63.3
DECLARATION	60.0
L-93	56.7
PENN A-2	46.7
SR 7200	43.3
LSD VALUE	16.8
C.V. (%)	15.6

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

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

TABLE 15B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	UT1
LTP-FEC	83.3
ALPHA	73.3
MVS-AP-101	73.3
SRP-1GMC	73.3
V8	73.3
A08-TDN2	70.0
AFM	70.0
PENN A-1	70.0
PIN-UP (HTM)	70.0
PST-OJO	70.0
T-1	70.0
AUTHORITY	66.7
PENNCROSS	63.3
SRP-1BLTR3	63.3
DECLARATION	60.0
L-93	56.7
PENN A-2	46.7
LSD VALUE	16.2
C.V. (%)	14.9

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	UT1
VILLA	70.0
SR 7200	43.3
LSD VALUE	20.8
C.V. (%)	22.8

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 16A. FROST TOLERANCE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/

NAME	WA3
MVS-AP-101	7.0
PIN-UP (HTM)	7.0
PST-OJO	7.0
VILLA	6.7
LTP-FEC	6.3
SRP-1GMC	6.3
V8	6.3
A08-TDN2	6.0
AUTHORITY	6.0
DECLARATION	6.0
SR 7200	6.0
T-1	5.7
AFM	5.3
ALPHA	5.3
PENN A-1	5.3
SRP-1BLTR3	5.3
L-93	4.7
PENN A-2	4.7
PENNCROSS	4.3
LSD VALUE	1.0
C.V. (%)	11.1

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

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

TABLE 16B. FROST TOLERANCE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/

NAME	WA3
MVS-AP-101	7.0
PIN-UP (HTM)	7.0
PST-OJO	7.0
LTP-FEC	6.3
SRP-1GMC	6.3
V8	6.3
A08-TDN2	6.0
AUTHORITY	6.0
DECLARATION	6.0
T-1	5.7
AFM	5.3
ALPHA	5.3
PENN A-1	5.3
SRP-1BLTR3	5.3
L-93	4.7
PENN A-2	4.7
PENNCROSS	4.3
LSD VALUE	1.1
C.V. (%)	11.6

TABLE 16C. FROST TOLERANCE RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/

NAME	WA3
VILLA	6.7
SR 7200	6.0
LSD VALUE	0.7
C.V. (%)	6.4

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

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



TABLE 17A. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

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

NAME	PA1
SR 7200	5.0
VILLA	4.7
DECLARATION	3.3
SRP-1GMC	3.3
SRP-1BLTR3	3.0
A08-TDN2	2.7
MVS-AP-101	2.7
PIN-UP (HTM)	2.7
PST-OJO	2.7
AFM	2.3
AUTHORITY	2.3
L-93	2.3
LTP-FEC	2.3
T-1	2.3
V8	2.3
ALPHA	2.0
PENN A-1	2.0
PENN A-2	2.0
PENNCROSS	1.0
LSD VALUE	1.1
C.V. (%)	24.7

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

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

TABLE 17B. WINTER COLOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	PA1
DECLARATION	3.3
SRP-1GMC	3.3
SRP-1BLTR3	3.0
A08-TDN2	2.7
MVS-AP-101	2.7
PIN-UP (HTM)	2.7
PST-OJO	2.7
AFM	2.3
AUTHORITY	2.3
L-93	2.3
LTP-FEC	2.3
T-1	2.3
V8	2.3
ALPHA	2.0
PENN A-1	2.0
PENN A-2	2.0
PENNCROSS	1.0
LSD VALUE	1.1
C.V. (%)	28.2

TABLE 17C. WINTER COLOR RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	PA1
SR 7200	5.0
VILLA	4.7
LSD VALUE	0.7
C.V. (%)	8.4

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

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

TABLE 18A. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	KY1	PA1	VA1	MEAN
VILLA	8.3	9.0	8.7	8.7
SR 7200	7.7	9.0	9.0	8.6
DECLARATION	7.3	8.3	9.0	8.2
SRP-1GMC	6.7	8.0	8.0	7.6
MVS-AP-101	6.0	8.7	8.0	7.6
LTP-FEC	6.7	7.7	8.0	7.4
PIN-UP (HTM)	6.0	8.0	7.7	7.2
A08-TDN2	5.7	8.3	7.0	7.0
V8	5.0	8.0	8.0	7.0
L-93	6.0	6.7	8.0	6.9
AFM	5.3	7.3	8.0	6.9
PENN A-1	4.7	7.3	8.0	6.7
PENNCROSS	5.7	6.3	8.0	6.7
AUTHORITY	4.7	7.7	7.0	6.4
PENN A-2	4.3	7.0	7.7	6.3
ALPHA	4.7	6.3	7.0	6.0
T-1	4.7	6.3	7.0	6.0
SRP-1BLTR3	4.0	5.3	7.3	5.6
PST-OJO	3.3	5.7	6.3	5.1
LSD VALUE	1.6	1.2	1.3	0.8
C.V. (%)	17.2	10.4	10.1	12.2

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

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

TABLE 18B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	KY1	PA1	VA1	MEAN
DECLARATION	7.3	8.3	9.0	8.2
SRP-1GMC	6.7	8.0	8.0	7.6
MVS-AP-101	6.0	8.7	8.0	7.6
LTP-FEC	6.7	7.7	8.0	7.4
PIN-UP (HTM)	6.0	8.0	7.7	7.2
A08-TDN2	5.7	8.3	7.0	7.0
V8	5.0	8.0	8.0	7.0
L-93	6.0	6.7	8.0	6.9
AFM	5.3	7.3	8.0	6.9
PENN A-1	4.7	7.3	8.0	6.7
PENNCROSS	5.7	6.3	8.0	6.7
AUTHORITY	4.7	7.7	7.0	6.4
PENN A-2	4.3	7.0	7.7	6.3
ALPHA	4.7	6.3	7.0	6.0
T-1	4.7	6.3	7.0	6.0
SRP-1BLTR3	4.0	5.3	7.3	5.6
PST-OJO	3.3	5.7	6.3	5.1
LSD VALUE	1.6	1.3	1.3	0.8
C.V. (%)	18.8	11.3	10.7	13.1

TABLE 18C. DOLLAR SPOT RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	KY1	PA1	VA1	MEAN
VILLA	8.3	9	8.7	8.7
SR 7200	7.7	9	9.0	8.6
LSD VALUE	0.9	0	0.7	0.4
C.V. (%)	7.2	0	4.6	4.7

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

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

TABLE 19A. PINK SNOW MOLD RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

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

NAME	IN1
DECLARATION	9.0
PIN-UP (HTM)	9.0
SR 7200	9.0
AFM	8.7
PST-OJO	8.7
LTP-FEC	8.3
PENN A-1	8.3
PENN A-2	8.3
PENNCROSS	8.3
ALPHA	8.0
SRP-1GMC	8.0
T-1	8.0
A08-TDN2	7.7
L-93	7.7
SRP-1BLTR3	7.7
AUTHORITY	7.3
MVS-AP-101	7.0
V8	7.0
VILLA	6.3
LSD VALUE	1.6
C.V. (%)	12.0

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

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

TABLE 19B. PINK SNOW MOLD RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1
DECLARATION	9.0
PIN-UP (HTM)	9.0
AFM	8.7
PST-OJO	8.7
LTP-FEC	8.3
PENN A-1	8.3
PENN A-2	8.3
PENNCROSS	8.3
ALPHA	8.0
SRP-1GMC	8.0
T-1	8.0
A08-TDN2	7.7
L-93	7.7
SRP-1BLTR3	7.7
AUTHORITY	7.3
MVS-AP-101	7.0
V8	7.0
LSD VALUE	1.5
C.V. (%)	11.8

TABLE 19C. PINK SNOW MOLD RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	IN1
SR 7200	9.0
VILLA	6.3
LSD VALUE	1.7
C.V. (%)	14.1

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 20A. FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	UT1
VILLA	7.0
SR 7200	6.7
PENN A-1	5.3
PENN A-2	5.3
T-1	5.3
AUTHORITY	5.0
LTP-FEC	5.0
ALPHA	4.7
L-93	4.7
MVS-AP-101	4.7
SRP-1BLTR3	4.7
V8	4.7
A08-TDN2	4.3
PIN-UP (HTM)	4.3
DECLARATION	4.0
PENNCROSS	4.0
SRP-1GMC	4.0
AFM	3.0
PST-OJO	2.7
LSD VALUE	1.3
C.V. (%)	16.9

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

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

TABLE 20B. FALL COLOR (OCTOBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	UT1
PENN A-1	5.3
PENN A-2	5.3
T-1	5.3
AUTHORITY	5.0
LTP-FEC	5.0
ALPHA	4.7
L-93	4.7
MVS-AP-101	4.7
SRP-1BLTR3	4.7
V8	4.7
A08-TDN2	4.3
PIN-UP (HTM)	4.3
DECLARATION	4.0
PENNCROSS	4.0
SRP-1GMC	4.0
AFM	3.0
PST-OJO	2.7
LSD VALUE	1.3
C.V. (%)	17.8

TABLE 20C. FALL COLOR (OCTOBER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	UT1
VILLA	7.0
SR 7200	6.7
LSD VALUE	1.3
C.V. (%)	11.9

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 21A. FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

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

NAME	PA1
MVS-AP-101	7.7
PST-OJO	7.3
SR 7200	7.3
VILLA	7.3
V8	7.0
A08-TDN2	6.7
AUTHORITY	6.7
DECLARATION	6.7
SRP-1GMC	6.7
LTP-FEC	6.0
PIN-UP (HTM)	6.0
SRP-1BLTR3	6.0
AFM	5.7
PENN A-1	5.3
PENN A-2	5.0
T-1	5.0
L-93	4.3
ALPHA	4.0
PENNCROSS	2.3
LSD VALUE	1.0
C.V. (%)	10.9

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

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

TABLE 21B. FALL COLOR (NOVEMBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	PA1
MVS-AP-101	7.7
PST-OJO	7.3
V8	7.0
A08-TDN2	6.7
AUTHORITY	6.7
DECLARATION	6.7
SRP-1GMC	6.7
LTP-FEC	6.0
PIN-UP (HTM)	6.0
SRP-1BLTR3	6.0
AFM	5.7
PENN A-1	5.3
PENN A-2	5.0
T-1	5.0
L-93	4.3
ALPHA	4.0
PENNCROSS	2.3
LSD VALUE	1.1
C.V. (%)	11.4

TABLE 21C. FALL COLOR (NOVEMBER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	PA1
SR 7200	7.3
VILLA	7.3
LSD VALUE	0.9
C.V. (%)	7.9

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

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

TABLE 22A. FALL COLOR (DECEMBER) RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

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

NAME	VA1
DECLARATION	5.0
PENN A-1	5.0
PIN-UP (HTM)	5.0
A08-TDN2	4.7
MVS-AP-101	4.7
V8	4.3
AUTHORITY	4.0
PST-OJO	4.0
SR 7200	4.0
SRP-1GMC	4.0
AFM	3.7
SRP-1BLTR3	3.7
LTP-FEC	3.3
T-1	3.3
VILLA	3.3
L-93	3.0
ALPHA	2.7
PENN A-2	2.3
PENNCROSS	2.3
LSD VALUE	1.6
C.V. (%)	26.0

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

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

TABLE 22B. FALL COLOR (DECEMBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	VA1
DECLARATION	5.0
PENN A-1	5.0
PIN-UP (HTM)	5.0
A08-TDN2	4.7
MVS-AP-101	4.7
V8	4.3
AUTHORITY	4.0
PST-OJO	4.0
SRP-1GMC	4.0
AFM	3.7
SRP-1BLTR3	3.7
LTP-FEC	3.3
T-1	3.3
L-93	3.0
ALPHA	2.7
PENN A-2	2.3
PENNCROSS	2.3
LSD VALUE	1.6
C.V. (%)	26.4

TABLE 22C. FALL COLOR (DECEMBER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

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

NAME	VA1
SR 7200	4.0
VILLA	3.3
LSD VALUE	1.3
C.V. (%)	22.3

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

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

TABLE 23A. PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN 2/  
 2009 DATA

NAME	MN1	NJ1	UT1	VA1	MEAN
PENNCROSS	76.7	70.0	43.3	50.0	60.0
LTP-FEC	61.7	53.3	53.3	58.3	56.7
SRP-1GMC	65.0	70.0	46.7	31.7	53.3
DECLARATION	66.7	53.3	53.3	38.3	52.9
SR 7200	53.3	78.3	50.0	26.7	52.1
A08-TDN2	63.3	63.3	50.0	26.7	50.8
PENN A-1	71.7	46.7	46.7	36.7	50.4
ALPHA	61.7	56.7	43.3	32.3	48.5
T-1	66.7	63.3	46.7	17.3	48.5
SRP-1BLTR3	56.7	60.0	46.7	27.3	47.7
L-93	63.3	50.0	43.3	26.7	45.8
VILLA	53.3	63.3	46.7	20.0	45.8
AUTHORITY	56.7	60.0	40.0	23.3	45.0
MVS-AP-101	51.7	50.0	46.7	27.7	44.0
PENN A-2	58.3	40.0	36.7	38.3	43.3
PST-OJO	56.7	60.0	30.0	19.3	41.5
V8	51.7	46.7	33.3	28.3	40.0
PIN-UP (HTM)	45.0	40.0	43.3	25.0	38.3
AFM	36.7	36.7	36.7	30.0	35.0
LSD VALUE	10.7	34.4	13.3	28.1	11.9
C.V. (%)	11.3	38.3	18.8	56.8	31.2

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 23B. PERCENT ESTABLISHMENT RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN 2/  
2009 DATA

NAME	MN1	NJ1	UT1	VA1	MEAN
PENNCROSS	76.7	70.0	43.3	50.0	60.0
LTP-FEC	61.7	53.3	53.3	58.3	56.7
SRP-1GMC	65.0	70.0	46.7	31.7	53.3
DECLARATION	66.7	53.3	53.3	38.3	52.9
A08-TDN2	63.3	63.3	50.0	26.7	50.8
PENN A-1	71.7	46.7	46.7	36.7	50.4
ALPHA	61.7	56.7	43.3	32.3	48.5
T-1	66.7	63.3	46.7	17.3	48.5
SRP-1BLTR3	56.7	60.0	46.7	27.3	47.7
L-93	63.3	50.0	43.3	26.7	45.8
AUTHORITY	56.7	60.0	40.0	23.3	45.0
MVS-AP-101	51.7	50.0	46.7	27.7	44.0
PENN A-2	58.3	40.0	36.7	38.3	43.3
PST-OJO	56.7	60.0	30.0	19.3	41.5
V8	51.7	46.7	33.3	28.3	40.0
PIN-UP (HTM)	45.0	40.0	43.3	25.0	38.3
AFM	36.7	36.7	36.7	30.0	35.0
LSD VALUE	10.9	33.9	12.7	29.2	11.9
C.V. (%)	11.4	39.0	18.2	57.4	31.5

TABLE 23C. PERCENT ESTABLISHMENT RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN 2/  
2009 DATA

NAME	MN1	NJ1	UT1	VA1	MEAN
SR 7200	53.3	78.3	50.0	26.7	52.1
VILLA	53.3	63.3	46.7	20.0	45.8
LSD VALUE	9.3	38.4	17.4	15.4	11.5
C.V. (%)	10.8	33.7	22.3	41.0	29.1

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 24A. PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN AT KINGSTON, RI 2/  
 2009 DATA

NAME	SUMMER	FALL	MEAN
MVS-AP-101	99.0	99.0	99.0
SRP-1GMC	99.0	99.0	99.0
A08-TDN2	96.0	99.0	97.5
DECLARATION	96.0	99.0	97.5
V8	91.3	99.0	95.2
AFM	86.0	99.0	92.5
LTP-FEC	86.0	99.0	92.5
T-1	85.0	99.0	92.0
ALPHA	84.7	99.0	91.8
SRP-1BLTR3	80.0	97.7	88.8
PIN-UP (HTM)	81.3	96.0	88.7
PST-OJO	80.0	92.7	86.3
AUTHORITY	74.7	94.7	84.7
PENNCROSS	71.7	95.7	83.7
PENN A-1	78.0	82.7	80.3
PENN A-2	56.3	98.3	77.3
VILLA	61.7	89.7	75.7
L-93	46.7	91.3	69.0
SR 7200	38.3	94.3	66.3
LSD VALUE	48.1	22.0	31.0
C.V. (%)	27.5	7.8	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 24B. PERCENT ESTABLISHMENT RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN AT KINGSTON, RI 2/  
2009 DATA

NAME	SUMMER	FALL	MEAN
MVS-AP-101	99.0	99.0	99.0
SRP-1GMC	99.0	99.0	99.0
A08-TDN2	96.0	99.0	97.5
DECLARATION	96.0	99.0	97.5
V8	91.3	99.0	95.2
AFM	86.0	99.0	92.5
LTP-FEC	86.0	99.0	92.5
T-1	85.0	99.0	92.0
ALPHA	84.7	99.0	91.8
SRP-1BLTR3	80.0	97.7	88.8
PIN-UP (HTM)	81.3	96.0	88.7
PST-OJO	80.0	92.7	86.3
AUTHORITY	74.7	94.7	84.7
PENNCROSS	71.7	95.7	83.7
PENN A-1	78.0	82.7	80.3
PENN A-2	56.3	98.3	77.3
L-93	46.7	91.3	69.0
LSD VALUE	46.0	21.0	29.8
C.V. (%)	23.6	7.7	13.4

TABLE 24C. PERCENT ESTABLISHMENT RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN AT KINGSTON, RI 2/  
2009 DATA

NAME	SUMMER	FALL	MEAN
VILLA	61.7	89.7	75.7
SR 7200	38.3	94.3	66.3
LSD VALUE	46.0	21.0	29.8
C.V. (%)	70.8	9.7	29.8

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 25A. NUMBER OF DOLLAR SPOT INFECTION CENTERS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

NUMBER OF DOLLAR SPOTS PER PLOT 2/

NAME	IN1
T-1	31.0
ALPHA	22.7
SRP-1BLTR3	22.7
PENN A-1	18.0
PENN A-2	17.7
AUTHORITY	17.0
PST-OJO	17.0
PENNCROSS	16.3
L-93	16.0
PIN-UP (HTM)	15.0
AFM	14.3
A08-TDN2	9.7
LTP-FEC	9.0
DECLARATION	7.0
SRP-1GMC	6.3
V8	4.0
MVS-AP-101	3.3
SR 7200	0.0
VILLA	0.0
LSD VALUE	8.1
C.V. (%)	38.6

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 25B. NUMBER OF DOLLAR SPOT INFECTION CENTERS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

NUMBER OF DOLLAR SPOTS PER PLOT 2/

NAME	IN1
T-1	31.0
ALPHA	22.7
SRP-1BLTR3	22.7
PENN A-1	18.0
PENN A-2	17.7
AUTHORITY	17.0
PST-OJO	17.0
PENNCROSS	16.3
L-93	16.0
PIN-UP (HTM)	15.0
AFM	14.3
A08-TDN2	9.7
LTP-FEC	9.0
DECLARATION	7.0
SRP-1GMC	6.3
V8	4.0
MVS-AP-101	3.3
LSD VALUE	8.5
C.V. (%)	36.5

TABLE 25C. NUMBER OF DOLLAR SPOT INFECTION CENTERS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

NUMBER OF DOLLAR SPOTS PER PLOT 2/

NAME	IN1
SR 7200	0
VILLA	0
LSD VALUE	0
C.V. (%)	.

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

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

TABLE 26A. RECOVERY RATINGS FROM FALL AERIFICATION OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2009 DATA

RECOVERY RATINGS 1-9; 9=COMPLETE RECOVERY 2/

NAME	WA3
PST-OJO	8.7
PIN-UP (HTM)	7.7
MVS-AP-101	7.3
SRP-1GMC	7.3
A08-TDN2	7.0
AFM	7.0
LTP-FEC	7.0
V8	7.0
PENN A-1	6.7
PENNCROSS	6.7
ALPHA	6.3
L-93	6.3
T-1	6.3
DECLARATION	6.0
PENN A-2	6.0
SRP-1BLTR3	5.7
VILLA	5.7
AUTHORITY	5.3
SR 7200	4.3
LSD VALUE	1.4
C.V. (%)	13.3

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

TABLE 26B. RECOVERY RATINGS FROM FALL AERIFICATION OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

RECOVERY RATINGS 1-9; 9=COMPLETE RECOVERY 2/

NAME	WA3
PST-OJO	8.7
PIN-UP (HTM)	7.7
MVS-AP-101	7.3
SRP-1GMC	7.3
A08-TDN2	7.0
AFM	7.0
LTP-FEC	7.0
V8	7.0
PENN A-1	6.7
PENNCROSS	6.7
ALPHA	6.3
L-93	6.3
T-1	6.3
DECLARATION	6.0
PENN A-2	6.0
SRP-1BLTR3	5.7
AUTHORITY	5.3
LSD VALUE	1.4
C.V. (%)	13.3

TABLE 26C. RECOVERY RATINGS FROM FALL AERIFICATION OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2009 DATA

RECOVERY RATINGS 1-9; 9=COMPLETE RECOVERY 2/

NAME	WA3
VILLA	5.7
SR 7200	4.3
LSD VALUE	0.9
C.V. (%)	11.5

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.