

## 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 2010

<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	Proclamation (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.

2010 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	-	-	-	-	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	0.110-0.125	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	2.1-3.0	FULL SUN	0.110 OR LOWER	TO PREVENT STRESS
NC2	SAND	6.1-6.5	61-150	0-150	-	FULL SUN	-	TO PREVENT STRESS
NJ1	SAND	6.1-6.5	0-60	0-150	2.1-3.0	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	SAND	6.6-7.0	151-270	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	5.6-6.0	61-150	0-150	4.1-5.0	FULL SUN	0.110-0.125	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2010

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		X
IL4				X	X	X	X	X	X	X			X	X	
IN1				X	X	X	X	X	X	X	X		X		X
KY1			X	X	X	X	X	X	X	X				X	
MA1			X	X	X	X	X	X	X	X	X			X	
MN1				X	X	X	X	X	X	X			X	X	
NC2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
NJ1				X	X	X	X	X	X	X	X		X	X	X
NY2				X	X	X	X	X	X	X				X	
PA1					X	X	X	X	X	X			X	X	
RI1				X	X	X	X	X	X		X		X	X	
UT1					X	X	X	X	X				X	X	
VA1			X	X	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 2010

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FROST TOLERANCE	WINTER COLOR	DOLLAR SPOT	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER
AR1									X			X
IL4											X	
IN1		X	X									
KY1				X				X				
MA1						X						
MN1												
NC2		X	X					X			X	X
NJ1			X									
NY2												
PA1										X		
RI1	X	X		X	X							
UT1												
VA1												
WA3							X					

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2010

LOCATION	RECOVERY FROM AERIFICATION	DOLLAR SPOT COUNTS	YELLOW PATCH	YELLOW SPOT	BACTERIAL			WEAR TOLERANCE			ANTHRACNOSE		DOLLAR SPOT		DOLLAR SPOT				
					WILT DAMAGE	SNOW MOLD		JUNE	SEP	OCT	APR	SEP	SUMMER	FALL	JUNE	JULY	OCT		
AR1	X																		
IL4																			
IN1		X																	
KY1																			
MA1		X	X					X	X	X									
MN1																			
NC2				X															
NJ1											X	X							
NY2																			
PA1																			
RI1						X								X	X				
UT1							X												
VA1																	X	X	X
WA3																			

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 \*\*/  
2010 DATA

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

NAME	NJ1	RI1	VA1	IN1	WA3	MEAN
PST-OJO	7.6	5.7	4.9	7.7	7.1	6.6
A08-TDN2	7.5	5.4	4.7	7.6	7.0	6.4
* DECLARATION	5.4	6.5	5.6	7.5	6.4	6.3
* PIN-UP (HTM)	5.4	6.5	5.5	7.4	6.4	6.2
* PROCLAMATION (LTP-FEC)	6.0	6.0	5.2	7.5	6.5	6.2
* BARRACUDA (MVS-AP-101)	6.2	5.5	5.1	7.5	6.4	6.2
SRP-1GMC	5.7	5.6	5.2	7.4	6.2	6.0
AFM	4.7	6.3	5.4	7.2	6.0	5.9
* V8	6.5	4.6	4.7	7.4	6.2	5.9
* AUTHORITY	5.1	5.5	5.1	7.1	5.9	5.7
* VILLA	6.2	6.0	3.5	6.0	6.4	5.6
SRP-1BLTR3	5.1	5.3	4.7	6.9	5.7	5.6
* PENN A-1	4.2	5.9	5.0	6.8	5.5	5.5
* ALPHA	4.3	5.3	4.8	6.7	5.3	5.3
* T-1	5.3	4.3	4.5	6.9	5.4	5.3
* PENN A-2	3.6	5.6	4.7	6.4	5.1	5.1
* SR 7200	3.8	6.7	3.6	5.3	5.4	4.9
* L-93	2.9	5.5	4.7	6.2	4.7	4.8
* PENNCROSS	1.9	4.6	3.7	5.2	3.7	3.8
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.4	11.3	13.3	9.2	10.8	11.2

\* COMMERCIALY AVAILABLE IN THE USA IN 2011.

\*\*/ 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 \*/  
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	NJ1	RI1	VA1	IN1	WA3	MEAN
PST-OJO	7.6	5.7	4.9	7.7	7.1	6.6
A08-TDN2	7.5	5.4	4.7	7.6	7.0	6.4
DECLARATION	5.4	6.5	5.6	7.5	6.4	6.3
PIN-UP (HTM)	5.4	6.5	5.5	7.4	6.4	6.2
PROCLAMATION (LTP-FEC)	6.0	6.0	5.2	7.5	6.5	6.2
BARRACUDA (MVS-AP-101)	6.2	5.5	5.1	7.5	6.4	6.2
SRP-1GMC	5.7	5.6	5.2	7.4	6.2	6.0
AFM	4.7	6.3	5.4	7.2	6.0	5.9
V8	6.5	4.6	4.7	7.4	6.2	5.9
AUTHORITY	5.1	5.5	5.1	7.1	5.9	5.7
SRP-1BLTR3	5.1	5.3	4.7	6.9	5.7	5.6
PENN A-1	4.2	5.9	5.0	6.8	5.5	5.5
ALPHA	4.3	5.3	4.8	6.7	5.3	5.3
T-1	5.3	4.3	4.5	6.9	5.4	5.3
PENN A-2	3.6	5.6	4.7	6.4	5.1	5.1
L-93	2.9	5.5	4.7	6.2	4.7	4.8
PENNCROSS	1.9	4.6	3.7	5.2	3.7	3.8
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.3	11.5	12.9	9.0	10.8	11.1

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 \*/  
2010 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	NJ1	RI1	VA1	IN1	WA3	MEAN
VILLA	6.2	6.0	3.5	6.0	6.4	5.6
SR 7200	3.8	6.7	3.6	5.3	5.4	4.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	12.7	10.0	18.1	11.2	10.8	12.0

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.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 FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2010 DATA

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

NAME	PA1	KY1	MN1	AR1	UT1	MEAN
V8	8.2	6.7	7.4	8.4	7.0	7.5
BARRACUDA (MVS-AP-101)	7.8	6.7	7.0	8.2	6.7	7.3
SRP-1GMC	7.6	6.6	6.8	8.1	6.5	7.1
A08-TDN2	7.8	6.6	7.0	7.5	6.7	7.1
PST-OJO	7.7	6.6	7.0	7.4	6.7	7.1
T-1	7.6	6.3	6.8	8.2	6.3	7.0
PROCLAMATION (LTP-FEC)	7.4	6.6	6.5	7.8	6.3	6.9
DECLARATION	7.2	6.6	6.3	7.9	6.2	6.8
AUTHORITY	7.3	6.4	6.4	8.0	6.1	6.8
PIN-UP (HTM)	7.0	6.5	6.1	7.7	6.0	6.7
AFM	6.9	6.3	5.9	7.7	5.8	6.5
SRP-1BLTR3	7.0	6.1	6.1	7.5	5.9	6.5
ALPHA	6.8	6.0	5.8	7.6	5.6	6.4
PENN A-1	6.4	5.9	5.5	7.3	5.4	6.1
PENN A-2	6.1	5.6	5.1	7.1	5.0	5.8
L-93	6.0	5.5	5.0	7.2	4.8	5.7
PENNCROSS	4.7	4.4	3.7	6.0	3.6	4.5
VILLA	4.5	4.3	3.8	3.9	3.9	4.1
SR 7200	3.0	3.5	2.2	3.2	2.5	2.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	9.5	10.7	10.9	8.8	11.3	10.1

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.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 FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2010 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					MEAN
	PA1	KY1	MN1	AR1	UT1	
V8	8.2	6.7	7.4	8.4	7.0	7.5
BARRACUDA (MVS-AP-101)	7.8	6.7	7.0	8.2	6.7	7.3
SRP-1GMC	7.6	6.6	6.8	8.1	6.5	7.1
A08-TDN2	7.8	6.6	7.0	7.5	6.7	7.1
PST-OJO	7.7	6.6	7.0	7.4	6.7	7.1
T-1	7.6	6.3	6.8	8.2	6.3	7.0
PROCLAMATION (LTP-FEC)	7.4	6.6	6.5	7.8	6.3	6.9
DECLARATION	7.2	6.6	6.3	7.9	6.2	6.8
AUTHORITY	7.3	6.4	6.4	8.0	6.1	6.8
PIN-UP (HTM)	7.0	6.5	6.1	7.7	6.0	6.7
AFM	6.9	6.3	5.9	7.7	5.8	6.5
SRP-1BLTR3	7.0	6.1	6.1	7.5	5.9	6.5
ALPHA	6.8	6.0	5.8	7.6	5.6	6.4
PENN A-1	6.4	5.9	5.5	7.3	5.4	6.1
PENN A-2	6.1	5.6	5.1	7.1	5.0	5.8
L-93	6.0	5.5	5.0	7.2	4.8	5.7
PENNCROSS	4.7	4.4	3.7	6.0	3.6	4.5
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	9.0	10.2	10.3	8.3	10.7	9.6

TABLE 2C. MEAN TURFGRASS QUALITY RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2010 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					MEAN
	PA1	KY1	MN1	AR1	UT1	
VILLA	4.5	4.3	3.8	3.9	3.9	4.1
SR 7200	3.0	3.5	2.2	3.2	2.5	2.9
LSD VALUE	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)	17.1	16.3	21.3	17.9	19.7	18.3

\*/ 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 AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2010 DATA

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

NAME	SPRING GREENUP	PERCENT COVER FALL	YELLOW PATCH	DOLLAR				QUALITY RATINGS									
				SPOT COUNTS PER PLOT	WEAR JUNE	TOLERANCE SEPTEMBER	RATINGS OCTOBER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
PST-OJO	8.3	93.0	5.0	17.3	7.0	7.7	6.3	7.3	5.3	8.0	8.0	8.0	7.3	6.7	6.7	6.7	7.1
VILLA	7.3	90.0	8.0	0.0	6.0	8.0	6.0	6.3	6.3	7.3	7.3	7.3	7.3	8.0	6.7	5.7	6.9
A08-TDN2	8.0	73.3	5.3	8.3	7.0	6.7	5.7	7.0	5.0	7.0	8.0	7.0	7.0	6.7	6.0	6.3	6.7
V8	8.0	76.7	6.0	7.0	5.7	6.7	5.0	7.0	5.3	7.3	7.3	7.3	7.0	7.0	5.7	5.7	6.6
BARRACUDA (MVS-AP-101)	7.7	73.3	5.7	5.0	5.7	6.3	5.0	6.7	5.7	6.7	6.7	6.7	6.3	6.7	5.7	6.0	6.3
T-1	7.3	53.3	6.0	10.0	6.7	6.3	6.3	6.3	5.0	7.3	7.7	7.3	6.3	6.7	5.3	5.0	6.3
ALPHA	7.3	76.7	6.7	7.7	6.7	6.3	6.7	6.3	6.3	6.7	7.0	6.3	6.3	6.3	5.7	5.0	6.2
AUTHORITY	7.3	70.0	6.3	5.7	6.0	6.0	5.3	6.3	5.3	7.0	6.7	6.7	6.3	6.7	5.3	5.3	6.2
PROCLAMATION (LTP-FEC)	7.7	73.3	5.7	4.7	5.7	6.7	5.7	6.7	5.0	7.0	7.0	6.3	6.0	6.7	5.7	5.7	6.2
DECLARATION	7.3	80.0	6.3	1.7	5.7	5.7	5.0	6.3	5.3	7.0	6.3	6.0	5.7	5.7	6.3	6.0	6.1
PIN-UP (HTM)	7.7	73.3	6.0	6.0	6.7	6.3	5.7	6.7	5.0	7.0	6.7	6.3	6.0	6.3	5.7	5.7	6.1
SRP-1GMC	7.3	63.3	4.3	3.3	5.7	6.7	6.0	6.3	4.0	6.7	6.0	6.7	6.3	6.3	6.0	6.0	6.0
SRP-1BLTR3	7.0	60.0	6.3	11.0	6.0	6.0	6.3	6.0	5.0	6.0	6.7	6.7	6.0	6.3	5.0	5.0	5.9
PENN A-1	6.7	70.0	7.0	2.3	6.7	5.7	5.3	5.7	5.3	6.3	6.3	6.3	6.0	6.3	5.0	5.0	5.8
AFM	8.0	66.7	6.3	5.3	5.7	6.3	5.7	7.0	4.7	6.7	6.0	5.7	5.3	5.7	5.3	5.0	5.7
PENN A-2	6.7	56.7	5.0	5.0	5.3	5.0	5.0	5.7	5.0	5.7	5.0	5.7	4.7	5.7	4.7	5.0	5.2
L-93	7.0	60.0	6.0	4.3	5.0	5.3	5.7	6.0	4.7	6.0	5.3	5.0	4.3	5.3	5.3	4.3	5.1
SR 7200	6.7	80.0	8.0	0.0	3.7	5.7	4.7	5.7	5.7	5.0	4.7	4.7	5.3	5.3	5.3	4.7	5.1
PENNCROSS	5.3	33.3	4.7	1.0	4.7	4.3	4.3	4.3	4.7	4.7	4.0	4.3	4.0	4.0	4.0	3.7	4.2
LSD VALUE	0.9	18.4	1.8	3.4	0.9	0.9	1.4	0.9	0.7	0.9	0.9	0.7	0.7	0.9	0.9	1.0	0.5
C.V. (%)	7.6	15.7	16.3	39.2	9.5	9.3	12.8	8.8	8.0	8.2	9.2	7.7	7.8	8.9	9.3	10.6	5.1

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 3B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2010 DATA

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

NAME	SPRING GREENUP	PERCENT COVER FALL	DOLLAR					QUALITY RATINGS										MEAN
			YELLOW PATCH	SPOT COUNTS PER PLOT	WEAR JUNE	TOLERANCE SEPTEMBER	RATINGS OCTOBER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
PST-OJO	8.3	93.0	5.0	17.3	7.0	7.7	6.3	7.3	5.3	8.0	8.0	8.0	7.3	6.7	6.7	6.7	7.1	
A08-TDN2	8.0	73.3	5.3	8.3	7.0	6.7	5.7	7.0	5.0	7.0	8.0	7.0	7.0	6.7	6.0	6.3	6.7	
V8	8.0	76.7	6.0	7.0	5.7	6.7	5.0	7.0	5.3	7.3	7.3	7.3	7.0	7.0	5.7	5.7	6.6	
BARRACUDA (MVS-AP-101)	7.7	73.3	5.7	5.0	5.7	6.3	5.0	6.7	5.7	6.7	6.7	6.7	6.3	6.7	5.7	6.0	6.3	
T-1	7.3	53.3	6.0	10.0	6.7	6.3	6.3	6.3	5.0	7.3	7.7	7.3	6.3	6.7	5.3	5.0	6.3	
ALPHA	7.3	76.7	6.7	7.7	6.7	6.3	6.7	6.3	6.3	6.7	7.0	6.3	6.3	6.3	5.7	5.0	6.2	
AUTHORITY	7.3	70.0	6.3	5.7	6.0	6.0	5.3	6.3	5.3	7.0	6.7	6.7	6.3	6.7	5.3	5.3	6.2	
PROCLAMATION (LTP-FEC)	7.7	73.3	5.7	4.7	5.7	6.7	5.7	6.7	5.0	7.0	7.0	6.3	6.0	6.7	5.7	5.7	6.2	
DECLARATION	7.3	80.0	6.3	1.7	5.7	5.7	5.0	6.3	5.3	7.0	6.3	6.0	5.7	5.7	6.3	6.0	6.1	
PIN-UP (HTM)	7.7	73.3	6.0	6.0	6.7	6.3	5.7	6.7	5.0	7.0	6.7	6.3	6.0	6.3	5.7	5.7	6.1	
SRP-1GMC	7.3	63.3	4.3	3.3	5.7	6.7	6.0	6.3	4.0	6.7	6.0	6.7	6.3	6.3	6.0	6.0	6.0	
SRP-1BLTR3	7.0	60.0	6.3	11.0	6.0	6.0	6.3	6.0	5.0	6.0	6.7	6.7	6.0	6.3	5.0	5.0	5.9	
PENN A-1	6.7	70.0	7.0	2.3	6.7	5.7	5.3	5.7	5.3	6.3	6.3	6.3	6.0	6.3	5.0	5.0	5.8	
AFM	8.0	66.7	6.3	5.3	5.7	6.3	5.7	7.0	4.7	6.7	6.0	5.7	5.3	5.7	5.3	5.0	5.7	
PENN A-2	6.7	56.7	5.0	5.0	5.3	5.0	5.0	5.7	5.0	5.7	5.0	5.7	4.7	5.7	4.7	5.0	5.2	
L-93	7.0	60.0	6.0	4.3	5.0	5.3	5.7	6.0	4.7	6.0	5.3	5.0	4.3	5.3	5.3	4.3	5.1	
PENNCROSS	5.3	33.3	4.7	1.0	4.7	4.3	4.3	4.3	4.7	4.7	4.0	4.3	4.0	4.0	4.0	3.7	4.2	
LSD VALUE	0.9	20.4	2.5	3.6	0.9	1.0	1.3	0.9	0.7	0.9	0.9	0.8	0.7	0.9	0.8	0.9	0.5	
C.V. (%)	7.4	17.0	17.5	36.3	9.2	9.4	12.1	8.5	7.7	8.2	8.9	7.6	7.6	8.9	8.7	10.3	5.0	

TABLE 3C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2010 DATA

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

NAME	SPRING GREENUP	PERCENT COVER FALL	DOLLAR					QUALITY RATINGS										MEAN
			YELLOW PATCH	SPOT COUNTS PER PLOT	WEAR JUNE	TOLERANCE SEPTEMBER	RATINGS OCTOBER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
VILLA	7.3	90.0	8.0	0.0	6.0	8.0	6.0	6.3	6.3	7.3	7.3	7.3	7.3	8.0	6.7	5.7	6.9	
SR 7200	6.7	80.0	8.0	0.0	3.7	5.7	4.7	5.7	5.7	5.0	4.7	4.7	5.3	5.3	5.3	4.7	5.1	
LSD VALUE	0.9	20.4	2.5	3.6	0.9	1.0	1.3	0.9	0.7	0.9	0.9	0.8	0.7	0.9	0.8	0.9	0.5	
C.V. (%)	5.8	0.0	8.8	.	8.4	6.0	7.7	6.8	6.8	6.6	6.8	6.8	11.2	6.1	6.8	13.7	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 4A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER LOW INPUT AT FARMINGDALE (BETHPAGE STATE PARK), NY 1/  
2010 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
T-1	8.3	8.0	8.0	8.0	7.0	7.0	7.7	7.3	7.6
ALPHA	8.0	8.0	8.0	7.7	7.0	7.0	7.0	7.3	7.4
DECLARATION	8.0	8.0	8.0	7.7	7.0	7.0	7.0	7.3	7.4
PST-OJO	8.0	8.0	8.0	7.7	7.0	7.0	7.0	7.3	7.4
SR 7200	7.3	7.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0
A08-TDN2	7.0	7.3	7.0	7.0	7.0	6.0	7.0	7.0	6.9
PIN-UP (HTM)	7.0	7.3	7.0	7.0	6.7	6.0	7.0	7.0	6.9
V8	7.0	7.0	7.0	7.0	6.3	6.0	6.7	6.7	6.7
PENNCROSS	7.0	7.0	7.0	6.7	6.0	6.0	6.3	6.3	6.5
BARRACUDA (MVS-AP-101)	7.0	7.0	7.0	6.7	6.0	6.0	6.0	6.3	6.4
PENN A-1	6.7	7.0	6.7	6.3	6.0	6.0	6.0	6.0	6.3
VILLA	7.0	7.0	6.7	6.3	6.0	6.0	6.0	6.0	6.3
PENN A-2	6.3	6.7	6.3	6.0	6.0	5.7	6.0	6.0	6.1
PROCLAMATION (LTP-FEC)	6.3	6.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0
AUTHORITY	6.0	6.0	6.0	6.0	6.0	5.0	6.0	6.0	5.9
L-93	6.0	6.0	6.0	6.0	6.0	5.0	6.0	6.0	5.9
SRP-1BLTR3	6.0	6.0	6.0	6.0	5.3	5.0	5.7	5.7	5.7
AFM	6.0	6.0	6.0	5.7	5.0	5.0	5.0	5.3	5.4
SRP-1GMC	5.0	5.0	5.0	4.7	4.0	4.0	4.0	4.3	4.4
LSD VALUE	0.4	0.4	0.3	0.5	0.3	0.3	0.4	0.5	0.1
C.V. (%)	3.9	3.9	3.3	4.8	3.6	3.8	4.1	5.0	1.2

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 4B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON A GREEN UNDER LOW INPUT AT FARMINGDALE (BETHPAGE STATE PARK), NY 1/ 2010 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
T-1	8.3	8.0	8.0	8.0	7.0	7.0	7.7	7.3	7.6
ALPHA	8.0	8.0	8.0	7.7	7.0	7.0	7.0	7.3	7.4
DECLARATION	8.0	8.0	8.0	7.7	7.0	7.0	7.0	7.3	7.4
PST-OJO	8.0	8.0	8.0	7.7	7.0	7.0	7.0	7.3	7.4
A08-TDN2	7.0	7.3	7.0	7.0	7.0	6.0	7.0	7.0	6.9
PIN-UP (HTM)	7.0	7.3	7.0	7.0	6.7	6.0	7.0	7.0	6.9
V8	7.0	7.0	7.0	7.0	6.3	6.0	6.7	6.7	6.7
PENNCROSS	7.0	7.0	7.0	6.7	6.0	6.0	6.3	6.3	6.5
BARRACUDA (MVS-AP-101)	7.0	7.0	7.0	6.7	6.0	6.0	6.0	6.3	6.4
PENN A-1	6.7	7.0	6.7	6.3	6.0	6.0	6.0	6.0	6.3
PENN A-2	6.3	6.7	6.3	6.0	6.0	5.7	6.0	6.0	6.1
PROCLAMATION (LTP-FEC)	6.3	6.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0
AUTHORITY	6.0	6.0	6.0	6.0	6.0	5.0	6.0	6.0	5.9
L-93	6.0	6.0	6.0	6.0	6.0	5.0	6.0	6.0	5.9
SRP-1BLTR3	6.0	6.0	6.0	6.0	5.3	5.0	5.7	5.7	5.7
AFM	6.0	6.0	6.0	5.7	5.0	5.0	5.0	5.3	5.4
SRP-1GMC	5.0	5.0	5.0	4.7	4.0	4.0	4.0	4.3	4.4
LSD VALUE	0.4	0.4	0.3	0.5	0.3	0.3	0.4	0.5	0.1
C.V. (%)	3.8	3.8	2.9	4.7	3.8	3.3	4.4	5.1	1.2

TABLE 4C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS GROWN ON A GREEN UNDER LOW INPUT AT FARMINGDALE (BETHPAGE STATE PARK), NY 1/ 2010 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
SR 7200	7.3	7.7	7.0	7.0	7.0	6.3	7.0	7.0	7.0
VILLA	7.0	7.0	6.7	6.3	6.0	6.0	6.0	6.0	6.3
LSD VALUE	0.4	0.4	0.3	0.5	0.3	0.3	0.4	0.5	0.1
C.V. (%)	5.7	5.6	6.0	6.1	0.0	6.6	0.0	0.0	0.0

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 5A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH SHORE COUNTRY CLUB IN GLENVIEW, IL 1/  
2010 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL	QUALITY RATINGS								MEAN
			COLOR OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT		
PST-OJO	5.7	5.3	5.7	7.3	7.7	7.7	7.3	7.7	5.7	7.0	7.2	
BARRACUDA (MVS-AP-101)	6.3	6.0	6.3	6.7	6.7	7.3	7.7	7.3	7.7	6.3	7.1	
V8	6.3	5.7	6.3	6.3	7.7	8.0	7.3	6.7	7.0	6.7	7.1	
SRP-1GMC	6.3	5.3	6.3	6.3	7.7	7.0	7.7	6.3	7.3	6.7	7.0	
DECLARATION	6.3	6.7	6.3	6.0	7.3	7.3	7.3	6.3	7.3	6.0	6.8	
PROCLAMATION (LTP-FEC)	7.0	6.3	7.0	6.7	7.0	7.0	7.3	6.0	6.7	6.7	6.8	
A08-TDN2	6.7	5.7	6.7	5.7	6.7	7.3	7.0	6.3	6.3	6.7	6.6	
AFM	6.0	6.0	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.0	6.5	
PIN-UP (HTM)	6.7	5.7	6.7	6.0	6.3	7.0	7.0	7.0	6.0	6.3	6.5	
AUTHORITY	6.7	6.0	6.7	6.3	6.3	6.7	7.0	6.3	5.7	5.7	6.3	
T-1	7.3	5.7	7.3	4.7	5.7	6.3	7.0	6.7	7.0	6.0	6.2	
ALPHA	7.0	6.0	7.0	5.3	6.0	6.0	6.7	5.7	6.7	6.3	6.1	
SRP-1BLTR3	6.3	5.0	6.3	5.7	5.0	6.0	7.0	7.0	6.0	6.3	6.1	
PENN A-1	7.0	4.7	7.0	6.0	6.7	6.3	6.3	6.0	5.0	5.3	6.0	
L-93	7.0	4.0	7.0	5.0	5.7	6.7	6.0	5.3	6.0	5.0	5.7	
PENN A-2	7.0	4.0	7.0	5.0	5.3	5.7	5.7	6.0	5.7	5.7	5.6	
PENNCROSS	7.0	3.7	7.0	3.7	4.7	4.0	5.0	4.7	4.7	4.7	4.5	
VILLA	5.3	8.0	5.3	3.7	4.0	3.7	3.7	4.3	6.0	2.7	4.0	
SR 7200	3.7	5.7	3.7	4.0	5.3	3.0	2.7	4.3	5.3	2.0	3.8	
LSD VALUE	0.9	1.3	0.9	1.5	1.4	1.1	1.1	3.0	3.4	1.8	0.6	
C.V. (%)	9.1	14.2	9.1	15.4	13.2	11.0	10.8	20.6	20.3	19.0	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 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH SHORE COUNTRY CLUB IN GLENVIEW, IL 1/  
2010 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR OCTOBER	QUALITY RATINGS							MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	
PST-OJO	5.7	5.3	5.7	7.3	7.7	7.7	7.3	7.7	5.7	7.0	7.2
BARRACUDA (MVS-AP-101)	6.3	6.0	6.3	6.7	6.7	7.3	7.7	7.3	7.7	6.3	7.1
V8	6.3	5.7	6.3	6.3	7.7	8.0	7.3	6.7	7.0	6.7	7.1
SRP-1GMC	6.3	5.3	6.3	6.3	7.7	7.0	7.7	6.3	7.3	6.7	7.0
DECLARATION	6.3	6.7	6.3	6.0	7.3	7.3	7.3	6.3	7.3	6.0	6.8
PROCLAMATION (LTP-FEC)	7.0	6.3	7.0	6.7	7.0	7.0	7.3	6.0	6.7	6.7	6.8
A08-TDN2	6.7	5.7	6.7	5.7	6.7	7.3	7.0	6.3	6.3	6.7	6.6
AFM	6.0	6.0	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.0	6.5
PIN-UP (HTM)	6.7	5.7	6.7	6.0	6.3	7.0	7.0	7.0	6.0	6.3	6.5
AUTHORITY	6.7	6.0	6.7	6.3	6.3	6.7	7.0	6.3	5.7	5.7	6.3
T-1	7.3	5.7	7.3	4.7	5.7	6.3	7.0	6.7	7.0	6.0	6.2
ALPHA	7.0	6.0	7.0	5.3	6.0	6.0	6.7	5.7	6.7	6.3	6.1
SRP-1BLTR3	6.3	5.0	6.3	5.7	5.0	6.0	7.0	7.0	6.0	6.3	6.1
PENN A-1	7.0	4.7	7.0	6.0	6.7	6.3	6.3	6.0	5.0	5.3	6.0
L-93	7.0	4.0	7.0	5.0	5.7	6.7	6.0	5.3	6.0	5.0	5.7
PENN A-2	7.0	4.0	7.0	5.0	5.3	5.7	5.7	6.0	5.7	5.7	5.6
PENNCROSS	7.0	3.7	7.0	3.7	4.7	4.0	5.0	4.7	4.7	4.7	4.5
LSD VALUE	1.0	1.4	1.0	1.5	1.4	1.2	1.2	2.7	3.3	3.2	0.6
C.V. (%)	7.5	14.7	7.5	14.4	12.3	10.8	9.9	16.9	20.0	18.3	5.9

TABLE 5C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH SHORE COUNTRY CLUB IN GLENVIEW, IL 1/  
2010 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR OCTOBER	QUALITY RATINGS							MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	
VILLA	5.3	8.0	5.3	3.7	4.0	3.7	3.7	4.3	6.0	2.7	4.0
SR 7200	3.7	5.7	3.7	4.0	5.3	3.0	2.7	4.3	5.3	2.0	3.8
LSD VALUE	1.0	1.4	1.0	1.5	1.4	1.2	1.2	2.7	3.3	3.2	0.6
C.V. (%)	24.0	11.9	24.0	28.2	31.5	12.2	22.3	65.3	7.2	17.5	16.4

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

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

TABLE 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT IN PINEHURST, NC 1/  
2010 DATA

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

NAME	QUALITY RATINGS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PIN-UP (HTM)	7.0	7.3	7.3	8.0	8.0	8.3	8.3	7.3	8.7	9.0	8.3	8.0	8.0
PST-OJO	7.0	8.0	7.0	7.7	8.0	8.3	6.7	6.7	8.3	8.3	8.7	8.3	7.8
BARRACUDA (MVS-AP-101)	7.0	7.7	6.7	7.0	7.3	7.3	7.3	7.0	8.0	8.3	9.0	8.0	7.6
T-1	6.0	6.7	6.7	7.0	7.7	8.7	7.7	6.3	8.0	9.0	8.7	7.3	7.5
AUTHORITY	7.0	7.7	7.3	7.0	7.0	7.7	6.7	6.0	7.7	8.0	7.7	6.7	7.2
AFM	6.7	6.7	7.0	6.7	6.7	7.0	6.7	6.3	7.7	8.0	8.0	7.7	7.1
PENN A-1	5.3	6.3	7.7	7.3	6.7	7.3	7.0	5.7	7.7	7.7	7.7	7.0	6.9
SRP-1BLTR3	5.7	6.3	7.3	6.0	5.7	7.3	7.3	7.0	7.3	8.3	7.7	7.0	6.9
PROCLAMATION (LTP-FEC)	5.3	6.3	6.7	6.7	6.7	7.7	6.3	5.3	7.0	7.3	7.7	7.3	6.7
A08-TDN2	7.0	8.0	7.0	6.7	7.0	6.3	5.7	4.3	6.3	6.7	7.0	7.0	6.6
DECLARATION	7.0	7.3	5.7	6.0	6.0	7.3	6.3	5.0	6.7	6.7	7.0	6.7	6.5
L-93	5.3	6.0	6.7	5.7	6.0	6.3	6.7	4.7	6.7	7.0	6.3	6.7	6.2
V8	5.7	6.3	5.7	6.0	6.0	6.7	6.3	5.3	6.0	6.3	5.3	6.0	6.0
ALPHA	5.3	5.3	5.7	6.0	6.3	6.7	6.0	5.0	6.0	6.7	6.0	5.7	5.9
PENN A-2	4.7	5.0	6.3	6.0	6.3	6.7	6.7	5.0	5.7	6.3	5.7	6.7	5.9
SRP-1GMC	6.3	6.3	6.0	5.7	5.7	5.7	5.0	3.7	6.0	5.7	5.7	5.7	5.6
SR 7200	4.3	4.7	4.7	4.7	4.7	4.0	3.3	4.3	7.0	7.0	7.0	5.7	5.1
VILLA	3.0	3.3	5.7	4.3	4.0	4.7	3.7	4.0	7.0	6.7	6.0	5.0	4.8
PENNCROSS	3.3	4.0	5.0	4.3	4.0	4.7	4.3	3.7	5.7	6.3	5.0	5.3	4.6
LSD VALUE	1.2	1.3	2.8	2.2	2.4	2.9	2.8	4.4	3.7	3.2	2.4	2.2	1.9
C.V. (%)	13.0	12.8	18.2	17.7	19.5	21.2	22.7	31.4	20.0	18.2	17.8	16.0	15.3

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 6A. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT IN PINEHURST, NC 1/  
2010 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	DENSITY SUMMER	DENSITY FALL	WINTER COLOR	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	YELLOW SPOT
PIN-UP (HTM)	7.7	7.7	8.0	8.0	8.0	8.3	6.3	8.7
PST-OJO	7.0	5.7	8.3	9.0	8.0	7.0	6.3	9.0
BARRACUDA (MVS-AP-101)	7.3	6.0	7.7	8.3	8.0	7.0	6.7	8.3
T-1	7.7	6.7	8.7	8.0	6.7	8.7	7.3	9.0
AUTHORITY	6.7	6.7	7.3	7.3	6.7	7.0	6.7	8.7
AFM	7.3	6.7	7.3	7.7	8.0	7.3	7.3	8.7
PENN A-1	7.7	6.7	7.0	7.3	6.7	7.7	8.0	9.0
SRP-1BLTR3	8.0	7.0	8.0	7.0	7.0	8.7	7.7	9.0
PROCLAMATION (LTP-FEC)	7.7	6.0	7.3	7.3	7.3	7.3	7.3	9.0
A08-TDN2	7.0	6.0	7.0	7.3	7.3	7.3	6.3	8.3
DECLARATION	7.0	5.7	6.7	6.7	6.7	7.0	6.0	9.0
L-93	7.3	6.3	6.7	7.0	6.3	7.3	7.7	8.7
V8	6.7	5.7	7.3	6.3	5.0	6.3	5.7	8.7
ALPHA	7.3	6.0	5.7	5.7	6.0	8.0	7.3	9.0
PENN A-2	7.0	6.7	7.0	7.3	6.0	6.7	7.0	9.0
SRP-1GMC	6.7	6.7	5.7	5.7	6.0	7.0	6.7	9.0
SR 7200	5.0	6.7	7.7	8.3	4.7	5.3	5.0	5.0
VILLA	4.7	7.0	8.3	8.7	4.7	4.7	4.7	4.7
PENNCROSS	5.3	5.0	4.7	5.0	4.7	6.3	5.0	9.0
LSD VALUE	1.4	2.9	3.0	1.7	1.7	1.2	1.1	0.7
C.V. (%)	11.5	16.0	18.4	13.4	15.1	10.5	9.9	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.

TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT IN PINEHURST, NC 1/  
2010 DATA

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

NAME	QUALITY RATINGS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PIN-UP (HTM)	7.0	7.3	7.3	8.0	8.0	8.3	8.3	7.3	8.7	9.0	8.3	8.0	8.0
PST-OJO	7.0	8.0	7.0	7.7	8.0	8.3	6.7	6.7	8.3	8.3	8.7	8.3	7.8
BARRACUDA (MVS-AP-101)	7.0	7.7	6.7	7.0	7.3	7.3	7.3	7.0	8.0	8.3	9.0	8.0	7.6
T-1	6.0	6.7	6.7	7.0	7.7	8.7	7.7	6.3	8.0	9.0	8.7	7.3	7.5
AUTHORITY	7.0	7.7	7.3	7.0	7.0	7.7	6.7	6.0	7.7	8.0	7.7	6.7	7.2
AFM	6.7	6.7	7.0	6.7	6.7	7.0	6.7	6.3	7.7	8.0	8.0	7.7	7.1
PENN A-1	5.3	6.3	7.7	7.3	6.7	7.3	7.0	5.7	7.7	7.7	7.7	7.0	6.9
SRP-1BLTR3	5.7	6.3	7.3	6.0	5.7	7.3	7.3	7.0	7.3	8.3	7.7	7.0	6.9
PROCLAMATION (LTP-FEC)	5.3	6.3	6.7	6.7	6.7	7.7	6.3	5.3	7.0	7.3	7.7	7.3	6.7
A08-TDN2	7.0	8.0	7.0	6.7	7.0	6.3	5.7	4.3	6.3	6.7	7.0	7.0	6.6
DECLARATION	7.0	7.3	5.7	6.0	6.0	7.3	6.3	5.0	6.7	6.7	7.0	6.7	6.5
L-93	5.3	6.0	6.7	5.7	6.0	6.3	6.7	4.7	6.7	7.0	6.3	6.7	6.2
V8	5.7	6.3	5.7	6.0	6.0	6.7	6.3	5.3	6.0	6.3	5.3	6.0	6.0
ALPHA	5.3	5.3	5.7	6.0	6.3	6.7	6.0	5.0	6.0	6.7	6.0	5.7	5.9
PENN A-2	4.7	5.0	6.3	6.0	6.3	6.7	6.7	5.0	5.7	6.3	5.7	6.7	5.9
SRP-1GMC	6.3	6.3	6.0	5.7	5.7	5.7	5.0	3.7	6.0	5.7	5.7	5.7	5.6
PENNCROSS	3.3	4.0	5.0	4.3	4.0	4.7	4.3	3.7	5.7	6.3	5.0	5.3	4.6
LSD VALUE	1.3	1.3	3.2	2.5	2.6	4.0	4.0	4.8	3.9	3.3	2.3	2.5	2.2
C.V. (%)	13.0	11.9	18.2	17.4	18.2	21.5	22.9	32.4	21.1	18.7	17.4	16.3	15.7

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

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

TABLE 6B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT IN PINEHURST, NC 1/  
2010 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	DENSITY SUMMER	DENSITY FALL	WINTER COLOR	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	YELLOW SPOT
PIN-UP (HTM)	7.7	7.7	8.0	8.0	8.0	8.3	6.3	8.7
PST-OJO	7.0	5.7	8.3	9.0	8.0	7.0	6.3	9.0
BARRACUDA (MVS-AP-101)	7.3	6.0	7.7	8.3	8.0	7.0	6.7	8.3
T-1	7.7	6.7	8.7	8.0	6.7	8.7	7.3	9.0
AUTHORITY	6.7	6.7	7.3	7.3	6.7	7.0	6.7	8.7
AFM	7.3	6.7	7.3	7.7	8.0	7.3	7.3	8.7
PENN A-1	7.7	6.7	7.0	7.3	6.7	7.7	8.0	9.0
SRP-1BLTR3	8.0	7.0	8.0	7.0	7.0	8.7	7.7	9.0
PROCLAMATION (LTP-FEC)	7.7	6.0	7.3	7.3	7.3	7.3	7.3	9.0
A08-TDN2	7.0	6.0	7.0	7.3	7.3	7.3	6.3	8.3
DECLARATION	7.0	5.7	6.7	6.7	6.7	7.0	6.0	9.0
L-93	7.3	6.3	6.7	7.0	6.3	7.3	7.7	8.7
V8	6.7	5.7	7.3	6.3	5.0	6.3	5.7	8.7
ALPHA	7.3	6.0	5.7	5.7	6.0	8.0	7.3	9.0
PENN A-2	7.0	6.7	7.0	7.3	6.0	6.7	7.0	9.0
SRP-1GMC	6.7	6.7	5.7	5.7	6.0	7.0	6.7	9.0
PENNCROSS	5.3	5.0	4.7	5.0	4.7	6.3	5.0	9.0
LSD VALUE	1.6	2.8	3.2	1.9	1.8	1.5	0.9	0.9
C.V. (%)	10.4	16.3	19.3	14.3	14.3	10.3	8.3	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.

TABLE 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN AT PINEHURST RESORT IN PINEHURST, NC 1/  
2010 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	QUALITY RATINGS						MEAN	
						JUN	JUL	AUG	SEP	OCT	NOV		DEC
SR 7200	4.3	4.7	4.7	4.7	4.7	4.0	3.3	4.3	7.0	7.0	7.0	5.7	5.1
VILLA	3.0	3.3	5.7	4.3	4.0	4.7	3.7	4.0	7.0	6.7	6.0	5.0	4.8
LSD VALUE	1.3	1.3	3.2	2.5	2.6	4.0	4.0	4.8	3.9	3.3	2.3	2.5	2.2
C.V. (%)	11.1	27.0	23.7	24.0	34.0	9.4	11.7	9.8	0.0	6.0	10.9	7.7	8.3

TABLE 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF VELVET BENTGRASS CULTIVARS  
(CONT'D) GROWN ON A GREEN AT PINEHURST RESORT IN PINEHURST, NC 1/  
2010 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	DENSITY SUMMER	DENSITY FALL	WINTER COLOR	FALL COLOR	FALL COLOR	YELLOW SPOT
						OCTOBER	NOVEMBER	
SR 7200	5.0	6.7	7.7	8.3	4.7	5.3	5.0	5.0
VILLA	4.7	7.0	8.3	8.7	4.7	4.7	4.7	4.7
LSD VALUE	1.6	2.8	3.2	1.9	1.8	1.5	0.9	0.9
C.V. (%)	22.3	11.9	5.1	4.8	15.2	16.3	8.4	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 7A.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	AR1	IN1	MN1	NJ1	PA1	RI1	UT1	WA3	MEAN
T-1	7.7	9.0	9.0	8.3	9.0	8.0	7.3	7.0	8.2
PIN-UP (HTM)	7.0	7.0	6.3	6.7	7.0	5.3	7.3	6.0	6.6
ALPHA	6.3	7.7	6.7	6.3	7.0	6.7	5.3	6.7	6.6
SRP-1GMC	6.7	7.3	5.7	6.0	5.7	6.3	7.3	6.3	6.4
A08-TDN2	7.0	7.0	6.0	6.7	5.0	6.7	7.0	5.7	6.4
PENN A-2	7.7	7.0	6.3	5.7	6.3	6.7	5.0	6.3	6.4
AUTHORITY	7.7	6.3	5.3	6.3	6.0	6.7	6.3	6.0	6.3
V8	7.3	6.0	7.0	5.7	6.0	5.3	7.7	5.7	6.3
PENN A-1	7.0	7.3	5.7	6.3	6.3	5.3	5.0	6.0	6.1
BARRACUDA (MVS-AP-101)	7.0	6.7	6.0	5.0	5.0	6.3	7.0	5.3	6.0
L-93	6.3	7.3	6.7	5.3	6.3	6.3	4.3	5.7	6.0
PROCLAMATION (LTP-FEC)	6.7	6.7	5.0	5.0	6.0	5.7	7.3	5.7	6.0
SRP-1BLTR3	7.3	7.0	4.3	6.0	5.0	6.0	4.7	6.0	5.8
DECLARATION	6.7	7.0	5.7	4.0	5.3	5.0	6.3	6.0	5.8
PENNCROSS	5.7	7.3	6.7	4.3	6.3	6.0	3.3	6.0	5.7
AFM	6.7	6.3	4.3	4.0	5.3	6.0	6.0	5.3	5.5
PST-OJO	6.7	5.3	4.0	4.0	3.0	5.7	7.0	5.0	5.1
SR 7200	7.3	5.0	4.5	2.3	4.7	4.0	7.0	5.0	5.0
VILLA	6.3	4.0	3.0	4.3	4.3	4.3	7.7	5.0	4.9
LSD VALUE	1.2	1.0	1.5	1.7	1.0	1.4	1.1	0.7	0.4
C.V. (%)	11.0	9.3	15.8	19.5	11.2	15.2	11.0	7.9	12.8

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

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

TABLE 7B. GENETIC COLOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	AR1	IN1	MN1	NJ1	PA1	RI1	UT1	WA3	MEAN
T-1	7.7	9.0	9.0	8.3	9.0	8.0	7.3	7.0	8.2
PIN-UP (HTM)	7.0	7.0	6.3	6.7	7.0	5.3	7.3	6.0	6.6
ALPHA	6.3	7.7	6.7	6.3	7.0	6.7	5.3	6.7	6.6
SRP-1GMC	6.7	7.3	5.7	6.0	5.7	6.3	7.3	6.3	6.4
A08-TDN2	7.0	7.0	6.0	6.7	5.0	6.7	7.0	5.7	6.4
PENN A-2	7.7	7.0	6.3	5.7	6.3	6.7	5.0	6.3	6.4
AUTHORITY	7.7	6.3	5.3	6.3	6.0	6.7	6.3	6.0	6.3
V8	7.3	6.0	7.0	5.7	6.0	5.3	7.7	5.7	6.3
PENN A-1	7.0	7.3	5.7	6.3	6.3	5.3	5.0	6.0	6.1
BARRACUDA (MVS-AP-101)	7.0	6.7	6.0	5.0	5.0	6.3	7.0	5.3	6.0
L-93	6.3	7.3	6.7	5.3	6.3	6.3	4.3	5.7	6.0
PROCLAMATION (LTP-FEC)	6.7	6.7	5.0	5.0	6.0	5.7	7.3	5.7	6.0
SRP-1BLTR3	7.3	7.0	4.3	6.0	5.0	6.0	4.7	6.0	5.8
DECLARATION	6.7	7.0	5.7	4.0	5.3	5.0	6.3	6.0	5.8
PENNCROSS	5.7	7.3	6.7	4.3	6.3	6.0	3.3	6.0	5.7
AFM	6.7	6.3	4.3	4.0	5.3	6.0	6.0	5.3	5.5
PST-OJO	6.7	5.3	4.0	4.0	3.0	5.7	7.0	5.0	5.1
LSD VALUE	1.2	0.8	1.4	1.6	1.1	1.5	1.1	0.8	0.4
C.V. (%)	10.7	7.3	14.6	17.9	11.1	14.8	11.6	8.2	12.2

TABLE 7C. GENETIC COLOR RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	AR1	IN1	MN1	NJ1	PA1	RI1	UT1	WA3	MEAN
SR 7200	7.3	5.0	4.5	2.3	4.7	4.0	7.0	5	5.0
VILLA	6.3	4.0	3.0	4.3	4.3	4.3	7.7	5	4.9
LSD VALUE	1.5	2.0	2.2	2.2	0.9	1.3	0.7	0	0.5
C.V. (%)	13.4	27.2	32.7	40.6	12.8	19.6	5.6	0	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 8A. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	KY1	MN1	NJ1	PA1	RI1	UT1	WA3	MEAN
VILLA	9.0	5.0	6.7	9.0	5.7	7.0	5.3	6.8
BARRACUDA (MVS-AP-101)	7.0	7.7	7.3	7.0	4.3	6.0	6.0	6.5
A08-TDN2	7.3	6.7	8.7	7.3	4.7	5.0	5.7	6.5
DECLARATION	8.0	8.0	7.0	6.7	4.0	5.0	6.0	6.4
SR 7200	9.0	5.3	4.3	8.7	7.3	4.0	5.3	6.3
PIN-UP (HTM)	7.0	5.7	6.7	7.0	4.3	5.3	5.7	6.0
PROCLAMATION (LTP-FEC)	6.7	6.3	6.3	6.3	4.3	7.0	4.7	6.0
SRP-1GMC	6.3	6.0	7.0	7.0	4.3	6.0	5.0	6.0
AFM	7.3	6.0	6.0	6.3	5.0	5.3	4.7	5.8
T-1	5.7	7.0	5.7	6.7	6.0	5.0	4.7	5.8
PST-OJO	5.7	6.0	8.7	6.3	3.0	5.3	5.3	5.8
AUTHORITY	7.0	6.3	5.7	6.0	3.7	6.3	5.0	5.7
SRP-1BLTR3	7.3	7.3	4.7	6.3	5.3	4.0	4.3	5.6
ALPHA	4.7	6.3	5.0	5.3	6.3	4.3	4.3	5.2
PENN A-2	6.7	6.3	4.3	5.0	5.3	4.3	4.3	5.2
V8	4.0	6.3	7.3	6.7	2.7	4.3	5.0	5.2
L-93	6.3	6.7	3.7	5.0	6.7	3.3	3.7	5.0
PENN A-1	6.7	6.0	4.3	5.3	2.0	5.0	4.3	4.8
PENNCROSS	4.7	5.0	3.7	4.0	2.7	2.7	3.3	3.7
LSD VALUE	1.5	1.4	1.1	1.0	2.0	2.1	0.8	0.6
C.V. (%)	13.8	13.4	11.6	9.9	27.5	25.9	10.2	16.2

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

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

TABLE 8B. SPRING GREENUP RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	KY1	MN1	NJ1	PA1	RI1	UT1	WA3	MEAN
BARRACUDA (MVS-AP-101)	7.0	7.7	7.3	7.0	4.3	6.0	6.0	6.5
A08-TDN2	7.3	6.7	8.7	7.3	4.7	5.0	5.7	6.5
DECLARATION	8.0	8.0	7.0	6.7	4.0	5.0	6.0	6.4
PIN-UP (HTM)	7.0	5.7	6.7	7.0	4.3	5.3	5.7	6.0
PROCLAMATION (LTP-FEC)	6.7	6.3	6.3	6.3	4.3	7.0	4.7	6.0
SRP-1GMC	6.3	6.0	7.0	7.0	4.3	6.0	5.0	6.0
AFM	7.3	6.0	6.0	6.3	5.0	5.3	4.7	5.8
T-1	5.7	7.0	5.7	6.7	6.0	5.0	4.7	5.8
PST-OJO	5.7	6.0	8.7	6.3	3.0	5.3	5.3	5.8
AUTHORITY	7.0	6.3	5.7	6.0	3.7	6.3	5.0	5.7
SRP-1BLTR3	7.3	7.3	4.7	6.3	5.3	4.0	4.3	5.6
ALPHA	4.7	6.3	5.0	5.3	6.3	4.3	4.3	5.2
PENN A-2	6.7	6.3	4.3	5.0	5.3	4.3	4.3	5.2
V8	4.0	6.3	7.3	6.7	2.7	4.3	5.0	5.2
L-93	6.3	6.7	3.7	5.0	6.7	3.3	3.7	5.0
PENN A-1	6.7	6.0	4.3	5.3	2.0	5.0	4.3	4.8
PENNCROSS	4.7	5.0	3.7	4.0	2.7	2.7	3.3	3.7
LSD VALUE	1.6	1.4	1.1	1.1	2.1	2.0	0.8	0.6
C.V. (%)	15.2	13.2	11.7	10.7	29.7	24.4	10.1	16.6

TABLE 8C. SPRING GREENUP RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	KY1	MN1	NJ1	PA1	RI1	UT1	WA3	MEAN
VILLA	9	5.0	6.7	9.0	5.7	7	5.3	6.8
SR 7200	9	5.3	4.3	8.7	7.3	4	5.3	6.3
LSD VALUE	0	1.3	0.9	0.7	1.5	3	0.9	0.6
C.V. (%)	0	15.8	10.5	4.6	14.0	34	10.8	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 9A. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1	IN1	NJ1	MEAN
VILLA	8.7	9.0	9.0	8.9
PST-OJO	8.7	7.3	8.0	8.0
A08-TDN2	8.0	7.7	7.7	7.8
SR 7200	8.0	7.7	7.7	7.8
BARRACUDA (MVS-AP-101)	8.0	7.0	7.0	7.3
SRP-1BLTR3	7.7	7.0	7.0	7.2
V8	8.0	7.3	6.0	7.1
PROCLAMATION (LTP-FEC)	7.7	7.0	6.3	7.0
AUTHORITY	8.0	7.0	5.7	6.9
DECLARATION	7.7	6.3	5.7	6.6
SRP-1GMC	7.7	6.0	6.0	6.6
T-1	7.3	7.0	5.3	6.6
PIN-UP (HTM)	7.0	6.7	5.7	6.4
PENN A-1	7.7	6.0	5.0	6.2
AFM	7.3	6.3	4.7	6.1
ALPHA	7.7	6.3	4.3	6.1
PENN A-2	7.3	5.7	5.0	6.0
L-93	7.0	6.0	3.7	5.6
PENNCROSS	6.3	4.0	1.0	3.8
LSD VALUE	0.7	1.0	1.4	0.6
C.V. (%)	6.0	9.1	14.9	9.9

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

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

TABLE 9B. LEAF TEXTURE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1	IN1	NJ1	MEAN
PST-OJO	8.7	7.3	8.0	8.0
A08-TDN2	8.0	7.7	7.7	7.8
BARRACUDA (MVS-AP-101)	8.0	7.0	7.0	7.3
SRP-1BLTR3	7.7	7.0	7.0	7.2
V8	8.0	7.3	6.0	7.1
PROCLAMATION (LTP-FEC)	7.7	7.0	6.3	7.0
AUTHORITY	8.0	7.0	5.7	6.9
DECLARATION	7.7	6.3	5.7	6.6
SRP-1GMC	7.7	6.0	6.0	6.6
T-1	7.3	7.0	5.3	6.6
PIN-UP (HTM)	7.0	6.7	5.7	6.4
PENN A-1	7.7	6.0	5.0	6.2
AFM	7.3	6.3	4.7	6.1
ALPHA	7.7	6.3	4.3	6.1
PENN A-2	7.3	5.7	5.0	6.0
L-93	7.0	6.0	3.7	5.6
PENNCROSS	6.3	4.0	1.0	3.8
LSD VALUE	0.7	1.0	1.5	0.6
C.V. (%)	6.1	9.6	16.4	10.6

TABLE 9C. LEAF TEXTURE RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1	IN1	NJ1	MEAN
VILLA	8.7	9.0	9.0	8.9
SR 7200	8.0	7.7	7.7	7.8
LSD VALUE	0.7	0.7	0.7	0.4
C.V. (%)	4.9	4.9	4.9	4.9

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. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2010 DATA

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

NAME	RI1
SRP-1BLTR3	7.7
ALPHA	7.3
DECLARATION	7.0
PIN-UP (HTM)	7.0
A08-TDN2	6.3
BARRACUDA (MVS-AP-101)	6.3
SR 7200	6.0
AFM	5.3
L-93	5.3
PENN A-2	5.3
T-1	5.3
PROCLAMATION (LTP-FEC)	5.0
PENN A-1	4.7
PST-OJO	4.7
AUTHORITY	4.3
SRP-1GMC	4.3
VILLA	4.3
PENNCROSS	4.0
V8	3.3
LSD VALUE	3.2
C.V. (%)	36.8

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

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

TABLE 10B. SPRING DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	RI1
SRP-1BLTR3	7.7
ALPHA	7.3
DECLARATION	7.0
PIN-UP (HTM)	7.0
A08-TDN2	6.3
BARRACUDA (MVS-AP-101)	6.3
AFM	5.3
L-93	5.3
PENN A-2	5.3
T-1	5.3
PROCLAMATION (LTP-FEC)	5.0
PENN A-1	4.7
PST-OJO	4.7
AUTHORITY	4.3
SRP-1GMC	4.3
PENNCROSS	4.0
V8	3.3
LSD VALUE	3.3
C.V. (%)	37.6

TABLE 10C. SPRING DENSITY RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	RI1
SR 7200	6.0
VILLA	4.3
LSD VALUE	2.4
C.V. (%)	28.5

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

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

TABLE 11A. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	IN1	RI1	MEAN
SR 7200	7.0	8.0	7.5
V8	7.3	7.7	7.5
DECLARATION	5.7	8.3	7.0
PIN-UP (HTM)	7.0	7.0	7.0
PST-OJO	8.3	5.7	7.0
AO8-TDN2	8.0	5.7	6.8
AUTHORITY	6.0	7.7	6.8
BARRACUDA (MVS-AP-101)	7.0	6.7	6.8
SRP-1GMC	6.3	7.0	6.7
VILLA	8.0	5.0	6.5
L-93	5.7	7.0	6.3
PROCLAMATION (LTP-FEC)	6.7	6.0	6.3
AFM	6.7	4.3	5.5
PENN A-1	5.3	4.7	5.0
T-1	6.3	3.0	4.7
PENN A-2	6.0	3.0	4.5
SRP-1BLTR3	6.0	2.3	4.2
ALPHA	6.3	1.3	3.8
PENNCROSS	3.7	.	3.7
LSD VALUE	1.4	3.5	1.9
C.V. (%)	13.1	39.3	27.2

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 11B. SUMMER DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	IN1	RI1	MEAN
V8	7.3	7.7	7.5
DECLARATION	5.7	8.3	7.0
PIN-UP (HTM)	7.0	7.0	7.0
PST-OJO	8.3	5.7	7.0
A08-TDN2	8.0	5.7	6.8
AUTHORITY	6.0	7.7	6.8
BARRACUDA (MVS-AP-101)	7.0	6.7	6.8
SRP-1GMC	6.3	7.0	6.7
L-93	5.7	7.0	6.3
PROCLAMATION (LTP-FEC)	6.7	6.0	6.3
AFM	6.7	4.3	5.5
PENN A-1	5.3	4.7	5.0
T-1	6.3	3.0	4.7
PENN A-2	6.0	3.0	4.5
SRP-1BLTR3	6.0	2.3	4.2
ALPHA	6.3	1.3	3.8
PENNCROSS	3.7	.	3.7
LSD VALUE	1.4	3.4	1.9
C.V. (%)	13.5	38.7	26.9

TABLE 11C. SUMMER DENSITY RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	IN1	RI1	MEAN
SR 7200	7.0	8.0	7.5
VILLA	8.0	5.0	6.5
LSD VALUE	1.1	4.4	2.3
C.V. (%)	9.4	42.1	28.6

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 12A. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	IN1	NJ1	MEAN
VILLA	9.0	7.7	8.3
PST-OJO	8.3	8.0	8.2
AO8-TDN2	8.0	7.7	7.8
V8	8.0	6.7	7.3
SR 7200	8.7	6.0	7.3
BARRACUDA (MVS-AP-101)	7.0	7.3	7.2
PROCLAMATION (LTP-FEC)	7.3	7.0	7.2
SRP-1BLTR3	7.7	5.7	6.7
SRP-1GMC	7.0	6.3	6.7
DECLARATION	7.0	6.0	6.5
T-1	7.7	4.7	6.2
PIN-UP (HTM)	7.3	5.0	6.2
AUTHORITY	7.0	5.0	6.0
AFM	6.7	4.7	5.7
PENN A-1	6.3	4.7	5.5
PENN A-2	6.0	4.3	5.2
ALPHA	6.0	3.7	4.8
L-93	6.0	3.7	4.8
PENNCROSS	4.0	1.0	2.5
LSD VALUE	1.3	1.4	1.0
C.V. (%)	11.0	16.1	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 12B. FALL DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	IN1	NJ1	MEAN
PST-OJO	8.3	8.0	8.2
A08-TDN2	8.0	7.7	7.8
V8	8.0	6.7	7.3
BARRACUDA (MVS-AP-101)	7.0	7.3	7.2
PROCLAMATION (LTP-FEC)	7.3	7.0	7.2
SRP-1BLTR3	7.7	5.7	6.7
SRP-1GMC	7.0	6.3	6.7
DECLARATION	7.0	6.0	6.5
T-1	7.7	4.7	6.2
PIN-UP (HTM)	7.3	5.0	6.2
AUTHORITY	7.0	5.0	6.0
AFM	6.7	4.7	5.7
PENN A-1	6.3	4.7	5.5
PENN A-2	6.0	4.3	5.2
ALPHA	6.0	3.7	4.8
L-93	6.0	3.7	4.8
PENNCROSS	4.0	1.0	2.5
LSD VALUE	1.3	1.4	1.0
C.V. (%)	11.8	16.1	13.7

TABLE 12C. FALL DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	IN1	NJ1	MEAN
VILLA	9.0	7.7	8.3
SR 7200	8.7	6.0	7.3
LSD VALUE	0.7	1.7	0.9
C.V. (%)	4.6	15.8	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 13A. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KY1	RI1	MEAN
DECLARATION	97.7	86.7	92.2
PIN-UP (HTM)	96.0	88.3	92.2
VILLA	90.7	93.0	91.8
PROCLAMATION (LTP-FEC)	96.0	83.0	89.5
SR 7200	84.7	91.3	88.0
ALPHA	86.3	88.3	87.3
A08-TDN2	99.0	71.7	85.3
BARRACUDA (MVS-AP-101)	97.7	71.7	84.7
PENN A-2	86.3	81.7	84.0
SRP-1BLTR3	73.3	94.7	84.0
AUTHORITY	96.0	70.0	83.0
T-1	92.0	71.7	81.8
SRP-1GMC	94.7	66.7	80.7
AFM	81.7	76.7	79.2
L-93	76.7	80.0	78.3
PST-OJO	76.7	80.0	78.3
V8	99.0	56.7	77.8
PENNCROSS	73.3	78.0	75.7
PENN A-1	80.0	68.3	74.2
LSD VALUE	11.6	27.5	14.9
C.V. (%)	8.2	21.7	15.7

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

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

TABLE 13B. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KY1	RI1	MEAN
DECLARATION	97.7	86.7	92.2
PIN-UP (HTM)	96.0	88.3	92.2
PROCLAMATION (LTP-FEC)	96.0	83.0	89.5
ALPHA	86.3	88.3	87.3
A08-TDN2	99.0	71.7	85.3
BARRACUDA (MVS-AP-101)	97.7	71.7	84.7
PENN A-2	86.3	81.7	84.0
SRP-1BLTR3	73.3	94.7	84.0
AUTHORITY	96.0	70.0	83.0
T-1	92.0	71.7	81.8
SRP-1GMC	94.7	66.7	80.7
AFM	81.7	76.7	79.2
L-93	76.7	80.0	78.3
PST-OJO	76.7	80.0	78.3
V8	99.0	56.7	77.8
PENNCROSS	73.3	78.0	75.7
PENN A-1	80.0	68.3	74.2
LSD VALUE	10.7	28.6	15.3
C.V. (%)	7.6	23.0	16.2

TABLE 13C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	KY1	RI1	MEAN
VILLA	90.7	93.0	91.8
SR 7200	84.7	91.3	88.0
LSD VALUE	17.5	14.0	11.2
C.V. (%)	12.4	9.5	11.0

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 14A. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	RI1
L-93	99.0
AFM	96.3
AUTHORITY	95.0
PENN A-2	93.0
PST-OJO	93.0
DECLARATION	92.7
SRP-1BLTR3	92.7
PIN-UP (HTM)	91.3
PENN A-1	89.7
PROCLAMATION (LTP-FEC)	88.3
SR 7200	85.0
BARRACUDA (MVS-AP-101)	78.0
V8	75.0
SRP-1GMC	74.7
VILLA	65.0
A08-TDN2	58.3
ALPHA	58.3
T-1	55.0
PENNCROSS	53.3
LSD VALUE	24.8
C.V. (%)	19.1

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

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

TABLE 14B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	RI1
L-93	99.0
AFM	96.3
AUTHORITY	95.0
PENN A-2	93.0
PST-OJO	93.0
DECLARATION	92.7
SRP-1BLTR3	92.7
PIN-UP (HTM)	91.3
PENN A-1	89.7
PROCLAMATION (LTP-FEC)	88.3
BARRACUDA (MVS-AP-101)	78.0
V8	75.0
SRP-1GMC	74.7
A08-TDN2	58.3
ALPHA	58.3
T-1	55.0
PENNCROSS	53.3
LSD VALUE	24.4
C.V. (%)	18.6

TABLE 14C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	RI1
SR 7200	85.0
VILLA	65.0
LSD VALUE	27.9
C.V. (%)	23.1

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 15A. FROST TOLERANCE RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2010 DATA

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

NAME	WA3
PST-OJO	7.0
VILLA	6.7
A08-TDN2	6.3
SR 7200	6.3
V8	6.3
AUTHORITY	6.0
BARRACUDA (MVS-AP-101)	6.0
SRP-1BLTR3	6.0
AFM	5.7
DECLARATION	5.7
PROCLAMATION (LTP-FEC)	5.7
PENN A-2	5.3
SRP-1GMC	5.3
PENN A-1	5.0
PIN-UP (HTM)	5.0
T-1	5.0
ALPHA	4.3
L-93	4.3
PENNCROSS	3.0
LSD VALUE	1.0
C.V. (%)	10.7

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 15B. FROST TOLERANCE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	WA3
PST-OJO	7.0
A08-TDN2	6.3
V8	6.3
AUTHORITY	6.0
BARRACUDA (MVS-AP-101)	6.0
SRP-1BLTR3	6.0
AFM	5.7
DECLARATION	5.7
PROCLAMATION (LTP-FEC)	5.7
PENN A-2	5.3
SRP-1GMC	5.3
PENN A-1	5.0
PIN-UP (HTM)	5.0
T-1	5.0
ALPHA	4.3
L-93	4.3
PENNCROSS	3.0
LSD VALUE	1.0
C.V. (%)	11.0

TABLE 15C. FROST TOLERANCE RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	WA3
VILLA	6.7
SR 7200	6.3
LSD VALUE	0.9
C.V. (%)	8.9

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

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

TABLE 16A. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2010 DATA

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

NAME	KY1
DECLARATION	4.7
A08-TDN2	4.3
BARRACUDA (MVS-AP-101)	4.3
AFM	4.0
ALPHA	4.0
AUTHORITY	4.0
L-93	4.0
PENN A-1	4.0
PENN A-2	4.0
PENNCROSS	4.0
PIN-UP (HTM)	4.0
PROCLAMATION (LTP-FEC)	4.0
PST-OJO	4.0
SRP-1BLTR3	4.0
SRP-1GMC	4.0
T-1	4.0
V8	3.7
SR 7200	2.0
VILLA	2.0
LSD VALUE	0.4
C.V. (%)	6.9

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 16B. WINTER COLOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	KY1
DECLARATION	4.7
A08-TDN2	4.3
BARRACUDA (MVS-AP-101)	4.3
AFM	4.0
ALPHA	4.0
AUTHORITY	4.0
L-93	4.0
PENN A-1	4.0
PENN A-2	4.0
PENNCROSS	4.0
PIN-UP (HTM)	4.0
PROCLAMATION (LTP-FEC)	4.0
PST-OJO	4.0
SRP-1BLTR3	4.0
SRP-1GMC	4.0
T-1	4.0
V8	3.7
LSD VALUE	0.5
C.V. (%)	6.9

TABLE 16C. WINTER COLOR RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	KY1
SR 7200	2
VILLA	2
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 17A. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2010 DATA

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

NAME	AR1
A08-TDN2	9.0
BARRACUDA (MVS-AP-101)	9.0
DECLARATION	9.0
PIN-UP (HTM)	9.0
PROCLAMATION (LTP-FEC)	9.0
PST-OJO	9.0
SR 7200	9.0
SRP-1GMC	9.0
V8	9.0
VILLA	9.0
AFM	8.7
AUTHORITY	8.7
L-93	8.3
PENN A-2	8.3
PENNCROSS	8.3
ALPHA	8.0
PENN A-1	8.0
T-1	8.0
SRP-1BLTR3	6.7
LSD VALUE	1.0
C.V. (%)	6.8

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

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

TABLE 17B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
A08-TDN2	9.0
BARRACUDA (MVS-AP-101)	9.0
DECLARATION	9.0
PIN-UP (HTM)	9.0
PROCLAMATION (LTP-FEC)	9.0
PST-OJO	9.0
SRP-1GMC	9.0
V8	9.0
AFM	8.7
AUTHORITY	8.7
L-93	8.3
PENN A-2	8.3
PENNCROSS	8.3
ALPHA	8.0
PENN A-1	8.0
T-1	8.0
SRP-1BLTR3	6.7
LSD VALUE	1.0
C.V. (%)	7.0

TABLE 17C. DOLLAR SPOT RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
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 18A. FALL COLOR (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	PA1
BARRACUDA (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
PIN-UP (HTM)	6.0
PROCLAMATION (LTP-FEC)	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 18B. FALL COLOR (SEPTEMBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	PA1
BARRACUDA (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
PIN-UP (HTM)	6.0
PROCLAMATION (LTP-FEC)	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 18C. FALL COLOR (SEPTEMBER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 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 19A. FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
AUTHORITY	7.7
PENN A-2	7.7
T-1	7.7
SR 7200	7.3
SRP-1BLTR3	7.3
V8	7.3
A08-TDN2	7.0
BARRACUDA (MVS-AP-101)	7.0
PENN A-1	7.0
PIN-UP (HTM)	7.0
AFM	6.7
DECLARATION	6.7
PROCLAMATION (LTP-FEC)	6.7
PST-OJO	6.7
SRP-1GMC	6.7
ALPHA	6.3
L-93	6.3
VILLA	6.3
PENNCROSS	5.7
LSD VALUE	1.2
C.V. (%)	11.0

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. FALL COLOR (NOVEMBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
AUTHORITY	7.7
PENN A-2	7.7
T-1	7.7
SRP-1BLTR3	7.3
V8	7.3
A08-TDN2	7.0
BARRACUDA (MVS-AP-101)	7.0
PENN A-1	7.0
PIN-UP (HTM)	7.0
AFM	6.7
DECLARATION	6.7
PROCLAMATION (LTP-FEC)	6.7
PST-OJO	6.7
SRP-1GMC	6.7
ALPHA	6.3
L-93	6.3
PENNCROSS	5.7
LSD VALUE	1.2
C.V. (%)	10.7

TABLE 19C. FALL COLOR (NOVEMBER) RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
SR 7200	7.3
VILLA	6.3
LSD VALUE	1.5
C.V. (%)	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.

TABLE 20A. RECOVERY RATINGS FROM CORE AERIFICATION OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2010 DATA

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

NAME	AR1
PENNCROSS	7.7
BARRACUDA (MVS-AP-101)	7.3
PENN A-2	7.3
PST-OJO	7.3
SRP-1GMC	7.3
DECLARATION	7.0
PIN-UP (HTM)	7.0
AFM	6.7
ALPHA	6.7
SRP-1BLTR3	6.7
AUTHORITY	6.3
L-93	6.3
PENN A-1	6.3
V8	6.3
A08-TDN2	6.0
PROCLAMATION (LTP-FEC)	6.0
VILLA	5.5
T-1	5.0
SR 7200	4.0
LSD VALUE	2.4
C.V. (%)	21.6

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 20B. RECOVERY RATINGS FROM CORE AERIFICATION OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
PENNCROSS	7.7
BARRACUDA (MVS-AP-101)	7.3
PENN A-2	7.3
PST-OJO	7.3
SRP-1GMC	7.3
DECLARATION	7.0
PIN-UP (HTM)	7.0
AFM	6.7
ALPHA	6.7
SRP-1BLTR3	6.7
AUTHORITY	6.3
L-93	6.3
PENN A-1	6.3
V8	6.3
A08-TDN2	6.0
PROCLAMATION (LTP-FEC)	6.0
T-1	5.0
LSD VALUE	2.2
C.V. (%)	20.6

TABLE 20C. RECOVERY RATINGS FROM CORE AERIFICATION OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	AR1
VILLA	5.5
SR 7200	4.0
LSD VALUE	5.1
C.V. (%)	44.7

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 21A. NUMBER OF DOLLAR SPOT INFECTION CENTER OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

DOLLAR SPOT INFECTION CENTER PER PLOT 2/

NAME	IN1
SRP-1BLTR3	62.7
V8	54.3
PST-0JO	51.7
AFM	48.3
T-1	39.7
AUTHORITY	31.7
PENN A-1	25.3
A08-TDN2	21.0
L-93	18.3
ALPHA	16.0
PENN A-2	16.0
PIN-UP (HTM)	14.7
BARRACUDA (MVS-AP-101)	10.7
PROCLAMATION (LTP-FEC)	10.7
DECLARATION	10.3
SRP-1GMC	7.3
PENNCROSS	5.3
SR 7200	0.0
VILLA	0.0
LSD VALUE	24.3
C.V. (%)	64.6

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 21B. NUMBER OF DOLLAR SPOT INFECTION CENTER OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

DOLLAR SPOT INFECTION CENTER PER PLOT 2/

NAME	IN1
SRP-1BLTR3	62.7
V8	54.3
PST-0JO	51.7
AFM	48.3
T-1	39.7
AUTHORITY	31.7
PENN A-1	25.3
A08-TDN2	21.0
L-93	18.3
ALPHA	16.0
PENN A-2	16.0
PIN-UP (HTM)	14.7
BARRACUDA (MVS-AP-101)	10.7
PROCLAMATION (LTP-FEC)	10.7
DECLARATION	10.3
SRP-1GMC	7.3
PENNCROSS	5.3
LSD VALUE	25.7
C.V. (%)	61.1

TABLE 21C. NUMBER OF DOLLAR SPOT INFECTION CENTER OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

DOLLAR SPOT INFECTION CENTER 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 22A. BACTERIAL WILT DAMAGE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

BACTERIAL WILT DAMAGE RATINGS 1-9; 9=NO DAMAGE 2/

NAME	RI1
PENN A-2	6.7
PST-OJO	6.3
SRP-1BLTR3	6.3
PIN-UP (HTM)	6.0
DECLARATION	5.7
AUTHORITY	5.3
L-93	5.3
PENN A-1	5.0
SRP-1GMC	5.0
AFM	4.7
SR 7200	4.7
PROCLAMATION (LTP-FEC)	4.3
VILLA	4.3
V8	3.7
PENNCROSS	3.3
T-1	3.3
ALPHA	2.7
BARRACUDA (MVS-AP-101)	2.7
A08-TDN2	2.3
LSD VALUE	3.1
C.V. (%)	42.3

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 22B. BACTERIAL WILT DAMAGE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

BACTERIAL WILT DAMAGE RATINGS 1-9; 9=NO DAMAGE 2/

NAME	RI1
PENN A-2	6.7
PST-OJO	6.3
SRP-1BLTR3	6.3
PIN-UP (HTM)	6.0
DECLARATION	5.7
AUTHORITY	5.3
L-93	5.3
PENN A-1	5.0
SRP-1GMC	5.0
AFM	4.7
PROCLAMATION (LTP-FEC)	4.3
V8	3.7
PENNCROSS	3.3
T-1	3.3
ALPHA	2.7
BARRACUDA (MVS-AP-101)	2.7
A08-TDN2	2.3
LSD VALUE	3.1
C.V. (%)	41.5

TABLE 22C. BACTERIAL WILT DAMAGE RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

BACTERIAL WILT DAMAGE RATINGS 1-9; 9=NO DAMAGE 2/

NAME	RI1
SR 7200	4.7
VILLA	4.3
LSD VALUE	3.5
C.V. (%)	48.9

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 23A. SNOW MOLD RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN  
 2010 DATA

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

NAME	UT1
BARRACUDA (MVS-AP-101)	9.0
DECLARATION	9.0
SR 7200	9.0
VILLA	9.0
A08-TDN2	8.7
L-93	8.7
PENN A-2	8.7
PENNCROSS	8.7
PIN-UP (HTM)	8.7
T-1	8.7
AFM	8.3
SRP-1BLTR3	8.3
PROCLAMATION (LTP-FEC)	8.0
V8	8.0
ALPHA	7.7
PENN A-1	7.7
PST-OJO	7.3
SRP-1GMC	7.3
AUTHORITY	7.0
LSD VALUE	1.0
C.V. (%)	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.

TABLE 23B. SNOW MOLD RATINGS OF CREEPING BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	UT1
BARRACUDA (MVS-AP-101)	9.0
DECLARATION	9.0
A08-TDN2	8.7
L-93	8.7
PENN A-2	8.7
PENNCROSS	8.7
PIN-UP (HTM)	8.7
T-1	8.7
AFM	8.3
SRP-1BLTR3	8.3
PROCLAMATION (LTP-FEC)	8.0
V8	8.0
ALPHA	7.7
PENN A-1	7.7
PST-OJO	7.3
SRP-1GMC	7.3
AUTHORITY	7.0
LSD VALUE	1.1
C.V. (%)	8.3

TABLE 23C. SNOW MOLD RATINGS OF VELVET BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2010 DATA

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

NAME	UT1
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 24A. ANTHRACNOSE RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH BRUNSWICK, NJ 1/  
2010 DATA

ANTHRACNOSE RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	SEPTEMBER	MEAN
A08-TDN2	8.0	8.7	8.3
PST-OJO	8.0	6.3	7.2
VILLA	7.7	5.7	6.7
V8	7.3	5.7	6.5
BARRACUDA (MVS-AP-101)	5.7	6.0	5.8
PROCLAMATION (LTP-FEC)	6.0	5.7	5.8
SRP-1GMC	6.3	5.0	5.7
PIN-UP (HTM)	5.3	5.7	5.5
AUTHORITY	5.0	5.3	5.2
DECLARATION	5.0	4.3	4.7
AFM	5.0	4.0	4.5
SRP-1BLTR3	3.3	5.7	4.5
SR 7200	5.7	2.7	4.2
ALPHA	4.0	3.7	3.8
T-1	4.7	3.0	3.8
PENN A-1	3.0	4.3	3.7
PENN A-2	3.0	3.7	3.3
L-93	2.7	2.7	2.7
PENNCROSS	2.3	1.7	2.0
LSD VALUE	1.2	2.2	1.2
C.V. (%)	15.6	27.3	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 24B. ANTHRACNOSE RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH BRUNSWICK, NJ 1/  
2010 DATA

ANTHRACNOSE RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	SEPTEMBER	MEAN
A08-TDN2	8.0	8.7	8.3
PST-OJO	8.0	6.3	7.2
V8	7.3	5.7	6.5
BARRACUDA (MVS-AP-101)	5.7	6.0	5.8
PROCLAMATION (LTP-FEC)	6.0	5.7	5.8
SRP-1GMC	6.3	5.0	5.7
PIN-UP (HTM)	5.3	5.7	5.5
AUTHORITY	5.0	5.3	5.2
DECLARATION	5.0	4.3	4.7
AFM	5.0	4.0	4.5
SRP-1BLTR3	3.3	5.7	4.5
ALPHA	4.0	3.7	3.8
T-1	4.7	3.0	3.8
PENN A-1	3.0	4.3	3.7
PENN A-2	3.0	3.7	3.3
L-93	2.7	2.7	2.7
PENNCROSS	2.3	1.7	2.0
LSD VALUE	1.2	2.1	1.1
C.V. (%)	15.2	26.6	15.0

TABLE 24C. ANTHRACNOSE RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH BRUNSWICK, NJ 1/  
2010 DATA

ANTHRACNOSE RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	SEPTEMBER	MEAN
VILLA	7.7	5.7	6.7
SR 7200	5.7	2.7	4.2
LSD VALUE	1.2	2.1	1.1
C.V. (%)	0.0	44.9	17.3

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

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



TABLE 25A. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
 GROWN ON A GREEN AT KINGSTON, RI 1/  
 2010 DATA

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

NAME	SUMMER	FALL	MEAN
DECLARATION	9.0	6.7	7.8
PENNCROSS	9.0	5.0	7.7
VILLA	8.3	5.0	6.7
SRP-1GMC	8.3	4.3	6.3
PROCLAMATION (LTP-FEC)	7.7	4.7	6.2
V8	7.0	5.3	6.2
BARRACUDA (MVS-AP-101)	6.3	4.0	6.0
A08-TDN2	6.3	4.0	5.8
AFM	6.3	5.0	5.7
AUTHORITY	7.3	3.7	5.5
SR 7200	5.0	6.0	5.5
L-93	5.0	4.0	4.5
PENN A-1	6.0	2.3	4.2
PST-OJO	6.3	1.3	3.8
T-1	4.0	3.5	3.7
PIN-UP (HTM)	4.3	2.7	3.5
PENN A-2	4.0	1.7	2.8
ALPHA	2.7	2.5	2.7
SRP-1BLTR3	2.7	1.0	1.8
LSD VALUE	1.2	1.7	1.2
C.V. (%)	12.8	24.5	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 25B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT KINGSTON, RI 1/  
2010 DATA

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

NAME	SUMMER	FALL	MEAN
DECLARATION	9.0	6.7	7.8
PENNCROSS	9.0	5.0	7.7
SRP-1GMC	8.3	4.3	6.3
PROCLAMATION (LTP-FEC)	7.7	4.7	6.2
V8	7.0	5.3	6.2
BARRACUDA (MVS-AP-101)	6.3	4.0	6.0
A08-TDN2	6.3	4.0	5.8
AFM	6.3	5.0	5.7
AUTHORITY	7.3	3.7	5.5
L-93	5.0	4.0	4.5
PENN A-1	6.0	2.3	4.2
PST-OJO	6.3	1.3	3.8
T-1	4.0	3.5	3.7
PIN-UP (HTM)	4.3	2.7	3.5
PENN A-2	4.0	1.7	2.8
ALPHA	2.7	2.5	2.7
SRP-1BLTR3	2.7	1.0	1.8
LSD VALUE	1.1	1.7	1.3
C.V. (%)	12.6	25.4	16.9

TABLE 25C. DOLLAR SPOT RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN AT KINGSTON, RI 1/  
2010 DATA

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

NAME	SUMMER	FALL	MEAN
VILLA	8.3	5.0	6.7
SR 7200	5.0	6.0	5.5
LSD VALUE	1.1	1.7	1.3
C.V. (%)	16.2	22.3	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.

TABLE 26A. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT BLACKSBURG, VA 1/  
2010 DATA

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

NAME	JUNE	JULY	OCTOBER	MEAN
SR 7200	9.0	8.0	7.7	8.2
DECLARATION	8.3	8.0	8.0	8.1
VILLA	8.0	8.0	8.0	8.0
SRP-1GMC	8.0	8.0	7.7	7.9
AFM	7.7	7.3	7.3	7.4
PROCLAMATION (LTP-FEC)	7.7	7.3	7.3	7.4
L-93	8.0	7.3	6.7	7.3
BARRACUDA (MVS-AP-101)	7.7	7.0	7.0	7.2
PIN-UP (HTM)	7.3	7.0	7.0	7.1
PENNCROSS	7.0	7.3	6.3	6.9
V8	7.3	6.3	6.0	6.6
PENN A-1	7.0	6.3	6.0	6.4
ALPHA	6.3	6.0	6.3	6.2
SRP-1BLTR3	6.7	6.0	6.0	6.2
T-1	7.0	6.0	5.0	6.0
A08-TDN2	6.7	5.7	5.3	5.9
PENN A-2	6.7	5.3	5.7	5.9
AUTHORITY	6.3	5.7	5.0	5.7
PST-OJO	5.3	3.7	3.3	4.1
LSD VALUE	1.4	1.8	1.7	1.3
C.V. (%)	10.8	15.2	15.4	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 26B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS  
GROWN ON A GREEN AT BLACKSBURG, VA 1/  
2010 DATA

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

NAME	JUNE	JULY	OCTOBER	MEAN
DECLARATION	8.3	8.0	8.0	8.1
SRP-1GMC	8.0	8.0	7.7	7.9
AFM	7.7	7.3	7.3	7.4
PROCLAMATION (LTP-FEC)	7.7	7.3	7.3	7.4
L-93	8.0	7.3	6.7	7.3
BARRACUDA (MVS-AP-101)	7.7	7.0	7.0	7.2
PIN-UP (HTM)	7.3	7.0	7.0	7.1
PENNCROSS	7.0	7.3	6.3	6.9
V8	7.3	6.3	6.0	6.6
PENN A-1	7.0	6.3	6.0	6.4
ALPHA	6.3	6.0	6.3	6.2
SRP-1BLTR3	6.7	6.0	6.0	6.2
T-1	7.0	6.0	5.0	6.0
A08-TDN2	6.7	5.7	5.3	5.9
PENN A-2	6.7	5.3	5.7	5.9
AUTHORITY	6.3	5.7	5.0	5.7
PST-OJO	5.3	3.7	3.3	4.1
LSD VALUE	1.4	1.7	1.8	1.3
C.V. (%)	10.3	15.0	16.6	11.4

TABLE 26C. DOLLAR SPOT RATINGS OF VELVET BENTGRASS CULTIVARS  
GROWN ON A GREEN AT BLACKSBURG, VA 1/  
2010 DATA

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

NAME	JUNE	JULY	OCTOBER	MEAN
SR 7200	9.0	8.0	7.7	8.2
VILLA	8.0	8.0	8.0	8.0
LSD VALUE	1.4	1.7	1.8	1.3
C.V. (%)	14.4	15.3	5.2	11.0

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.