

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, one member from the Sports Turf Managers Association of America (STMA), and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

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

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A Guide to NTEP Turfgrass Ratings

Introduction

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

General Considerations

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

Turfgrass Quality

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

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

Other Ratings

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

2020 NATIONAL BENTGRASS TEST
(Fairway/Tee)

LOCATIONS SUBMITTING DATA FOR 2023

State	Location	Code
Colorado	Fort Collins (Saline Irrigation)	CO1
Indiana	West Lafayette	IN1
Indiana	West Lafayette (Poa Annua Reduction)	IN2
Iowa	Ames	IA1
Massachusetts	Amherst	MA1
Massachusetts	Amherst (Traffic Stress)	MA2
New Jersey	North Brunswick	NJ1
Quebec	Quebec City	QE1
Virginia	Blacksburg	VA1
Wisconsin	Madison	WI1

2020 NTEP National Bentgrass (Fairway/Tee) Test Entries and Sponsors

Entry #	Name	Species	Sponsor	*
*1	Penncross	Creeping	Standard	
*2	Chinook (H10G-OP)	Creeping	Standard	
*3	007XL	Creeping	DLF USA	
*4	S1	Creeping	SiteOne Landscape Supply	
*5	TourPro	Creeping	Columbia Seeds	
*6	Piranha	Creeping	Standard	
*7	Barracuda	Creeping	Mountain View Seeds	
*8	Musket	Colonial	Standard	
*9	Shark	Creeping	Mountain View Seeds	
*10	Match Play	Creeping	Landmark Turf & Native Seed	
11	DLF-AP-3084	Creeping	DLF USA	
12	PVF-PV-1	Creeping	Lebanon Turf	
13	PVF-PV-2	Creeping	SiteOne Landscape	
*14	Spectrum (LNS 19)	Creeping	Landmark Turf & Native Seed	
*15	Oakley (PPG-AP-MTV1)	Creeping	Mountain View Seeds	
*16	Piper (PPG-AP-MTV2)	Creeping	Mountain View Seeds	
17	PST-0MRN	Creeping	Pure-Seed Testing Inc.	
18	PST-0R2O	Creeping	Pure-Seed Testing Inc.	
19	PST-R0DS	Creeping	Pure-Seed Testing Inc.	

*Commercially Available in the US or any Other Country in 2024

TABLE A.

2023 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2020 NATIONAL BENTGRASS (FAIRWAY/TEE) 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
CO1	SAND	7.1-7.5	-	-	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
IN2	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MA1	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MA2	-	-	-	-	-	-	-	-
NJ1	SANDY LOAM	5.6-6.0	271-450	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
VA1	SILTY CLAY LOAM	5.6-6.0	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
WI1	SILT LOAM AND SILT	7.1-7.5	-	-	3.1-4.0	FULL SUN	-	TO PREVENT DORMANCY

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
CO1	X	X	X	X	X	X			X	X	X
IA1	X	X	X	X	X	X	X	X	X	X	
IN1	X	X	X	X	X	X	X	X			X
IN2	X	X	X	X	X	X	X	X			
MA1	X	X	X	X	X	X	X	X			
MA2											
NJ1	X	X	X	X	X	X	X	X	X	X	X
QE1									X	X	
VA1	X	X	X	X	X	X	X	X	X		
WI1	X	X	X	X	X	X	X	X	X	X	

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	DROUGHT TOLERANCE WILTING	DOLLAR SPOT	BROWN PATCH WARM TEMP.	PINK SNOW MOLD
CO1		X	X	X	X	X	X				
IA1	X	X	X	X	X	X					
IN1		X							X		
IN2									X		
MA1											
MA2											
NJ1			X						X	X	
QE1	X	X	X								X
VA1	X							X	X		
WI1	X	X	X								

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	POA ANNUA	MOWING QUALITY	CANOPY SMOOTHNESS	DOLLAR SPOT AUG_8	DOLLAR SPOT AUG_14	RATING AUG	RATING SEP	WEAR TOLERANCE MAY	WEAR TOLERANCE JULY	RATINGS OCTOBER
CO1	X											
IA1												
IN1			X	X	X	X	X					
IN2			X		X	X	X					
MA1										X	X	X
MA2												
NJ1												
QE1		X	X									
VA1								X	X			
WI1		X										

* MORE DATA FOR MA2 IN TABLE 8 AND 9.

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2023 DATA

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

NAME	# ENTRY	QE1	IA1	WI1	MEAN
*PIRANHA	6	2.9	6.5	6.2	5.2
*MATCH PLAY	10	2.7	6.4	6.2	5.1
*007XL	3	2.8	6.4	6.1	5.1
*MUSKET	8	2.8	6.4	6.1	5.1
*SHARK	9	2.8	6.4	6.0	5.1
PST-0R20	18	2.8	6.4	6.0	5.0
PST-0MRN	17	2.8	6.3	5.9	5.0
*BARRACUDA	7	2.7	6.3	6.0	5.0
DLF-AP-3084	11	2.5	6.3	6.1	5.0
*TOURPRO	5	2.5	6.2	5.9	4.9
*S1	4	2.5	6.2	5.9	4.9
PVF-FV-2	13	2.3	6.1	6.0	4.8
PVF-FV-1	12	2.3	6.1	5.9	4.8
*CHINOOK (H10G-OP)	2	2.3	6.1	5.9	4.8
*PIPER (PPG-AP-MTV2)	16	2.3	6.1	5.9	4.8
PST-R0DS	19	2.5	6.1	5.7	4.8
*SPECTRUM (LNS 19)	14	2.2	6.1	6.0	4.7
*OAKLEY (PPG-AP-MTV1)	15	2.2	6.0	5.9	4.7
*PENNCROSS	1	2.4	5.8	5.3	4.5
LSD VALUE		1.1	1.1	1.1	1.1
C.V. (%)		26.5	10.8	11.3	13.7

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2024 OR ANY OTHER COUNTRY

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

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

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

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2023 DATA

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

NAME	# ENTRY	NJ1
SPECTRUM (LNS 19)	14	7.6
OAKLEY (PPG-AP-MTV1)	15	7.2
DLF-AP-3084	11	7.1
PVF-PV-2	13	6.9
PVF-PV-1	12	6.4
PIPER (PPG-AP-MTV2)	16	6.3
CHINOOK (H10G-OP)	2	6.1
MATCH PLAY	10	6.1
S1	4	5.6
TOURPRO	5	5.6
007XL	3	5.4
PIRANHA	6	5.2
BARRACUDA	7	4.9
MUSKET	8	4.5
PST-OR20	18	4.4
SHARK	9	4.2
PST-R0DS	19	3.8
PST-OMRN	17	3.6
PENNCROSS	1	1.6
LSD VALUE		1.1
C.V. (%)		12.8

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

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

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

TABLE 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE WITH SALINE IRRIGATION AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	TURFGRASS QUALITY AND OTHER RATINGS										QUALITY RATINGS				MEAN		
	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	PERCENT SPRING	GROUND SUMMER	COVER FALL	WINTER COLOR	COLOR OCTOBER	APR	MAY	JUN	JUL		AUG	SEP
PENNCROSS	8.0	1.7	3.3	7.3	6.3	39.3	41.0	83.3	2.3	5.7	1.7	3.3	3.3	5.0	6.7	5.0	4.2
PIPER (PPG-AP-MTV2)	7.0	1.0	4.3	7.0	7.3	44.0	62.0	66.7	2.0	7.0	1.0	3.0	3.0	4.3	5.7	4.7	3.6
PIRANHA	7.3	1.0	3.7	7.3	7.3	39.3	50.3	56.7	2.0	6.7	1.0	3.0	3.7	5.0	5.3	3.7	3.6
PST-OMRN	7.3	1.0	5.0	7.3	7.0	47.7	63.3	44.3	2.0	7.0	1.0	3.3	3.3	5.0	5.0	3.7	3.6
DLF-AP-3084	7.3	1.0	4.0	7.0	6.7	40.7	43.0	60.0	2.3	6.7	1.0	3.3	3.3	4.7	5.3	3.3	3.5
007XL	7.0	1.0	4.0	7.0	6.7	37.3	52.7	63.3	2.0	6.7	1.0	2.7	3.0	4.3	5.0	4.3	3.4
BARRACUDA	7.3	1.0	4.3	7.3	7.7	25.0	51.0	47.7	2.0	6.3	1.0	2.3	3.0	4.7	5.7	4.0	3.4
CHINOOK (H10G-OP)	7.0	1.0	4.0	7.3	7.0	31.0	48.3	54.7	2.0	6.3	1.0	3.0	3.3	4.0	5.7	3.7	3.4
MATCH PLAY	6.7	1.0	4.0	7.3	7.3	33.0	57.7	39.0	2.3	6.3	1.0	2.7	3.0	4.3	5.7	4.0	3.4
PST-OR20	7.0	1.0	4.7	7.7	7.0	43.7	42.3	66.7	2.7	7.0	1.0	3.0	3.0	4.0	5.0	4.3	3.4
PVF-PV-1	7.0	1.0	4.3	7.3	7.3	36.3	48.7	59.0	2.0	7.0	1.0	3.0	3.0	4.7	5.3	3.7	3.4
S1	7.3	1.0	3.3	7.3	6.7	30.0	47.3	44.3	2.0	6.7	1.0	3.0	3.3	4.7	5.3	3.3	3.4
OAKLEY (PPG-AP-MTV1)	7.0	1.0	4.0	7.3	7.0	37.7	42.3	57.7	2.0	6.7	1.0	3.0	3.0	4.3	5.3	3.0	3.3
PVF-PV-2	7.3	1.0	4.0	7.0	7.3	27.7	48.0	64.3	2.0	6.7	1.0	2.7	3.0	4.3	5.0	4.0	3.3
SPECTRUM (LNS 19)	7.0	1.0	4.3	7.3	7.0	36.0	47.0	61.7	2.0	6.7	1.0	3.3	3.0	4.3	5.0	3.0	3.3
TOURPRO	7.7	1.0	4.0	7.0	7.0	15.3	40.0	78.0	2.0	7.0	1.0	2.3	2.7	4.3	5.0	4.3	3.3
PST-R0DS	7.0	1.0	4.3	7.0	7.0	17.3	37.7	59.0	2.3	7.0	1.0	2.0	3.0	4.0	5.0	4.0	3.2
SHARK	6.7	1.0	4.0	6.7	7.0	35.7	52.7	53.0	2.0	6.3	1.0	3.0	3.0	4.3	5.0	3.0	3.2
MUSKET	6.0	2.0	3.3	6.7	5.3	24.7	34.0	25.7	3.7	5.0	2.0	2.7	2.7	4.3	4.0	3.0	3.1
LSD VALUE	0.7	1.2	2.4	2.6	1.0	44.0	51.5	47.5	0.7	1.1	1.2	2.4	1.6	1.9	1.9	1.5	0.9
C.V. (%)	5.6	39.1	19.3	9.7	7.3	44.5	33.0	33.3	18.2	8.6	39.1	25.9	15.9	13.6	14.1	18.9	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 5.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2023 DATA

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

NAME	WEAR TOLERANCE			QUALITY RATINGS								MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
007XL	5.3	5.3	6.0	6.7	7.0	6.0	6.7	7.0	6.7	7.0	6.0	6.6
MUSKET	2.7	2.7	3.3	7.7	8.0	7.3	7.0	5.3	7.0	6.3	4.3	6.6
TOURPRO	5.0	5.0	5.0	6.7	7.0	6.7	6.7	6.7	6.7	6.0	5.0	6.4
MATCH PLAY	5.3	5.3	5.7	6.7	6.3	6.3	6.0	6.3	6.0	6.7	5.7	6.3
PIRANHA	5.7	6.0	5.7	6.0	6.3	6.7	6.7	6.0	6.3	6.0	6.0	6.3
PVF-PV-1	4.7	5.0	6.0	6.7	6.7	6.0	6.0	6.3	7.3	6.3	5.3	6.3
PIPER (PPG-AP-MTV2)	6.3	6.0	6.3	6.3	6.3	5.7	6.0	6.3	6.7	6.7	5.3	6.2
PST-RODS	4.3	5.0	5.0	6.3	6.7	5.7	5.7	6.0	6.7	7.0	5.3	6.2
SPECTRUM (LNS 19)	4.7	5.7	6.0	6.3	6.3	5.3	5.7	6.7	7.3	6.3	5.3	6.2
CHINOOK (H10G-OP)	5.0	5.0	5.3	6.0	6.3	6.3	5.7	6.3	5.7	6.3	5.3	6.0
S1	5.0	5.0	4.3	6.7	6.3	5.7	5.7	6.3	5.7	6.0	5.3	6.0
OAKLEY (PPG-AP-MTV1)	6.0	6.0	6.3	5.7	6.0	6.0	5.3	6.0	6.3	7.0	5.0	5.9
PST-OMRN	5.0	4.3	6.0	6.3	6.0	5.7	5.3	6.3	6.7	6.0	5.0	5.9
DLF-AP-3084	4.3	4.3	4.7	6.3	6.0	5.0	5.7	6.3	5.7	6.3	5.0	5.8
PST-0R20	5.7	6.0	6.3	5.0	5.7	5.3	5.0	7.0	6.7	6.3	5.7	5.8
PVF-PV-2	6.0	5.3	5.3	5.3	6.3	5.3	5.3	6.3	6.3	6.3	5.3	5.8
SHARK	6.3	6.7	5.3	6.0	6.0	5.3	5.3	6.0	6.3	5.7	5.3	5.8
BARRACUDA	4.3	4.7	5.3	6.3	6.0	5.3	5.3	5.3	6.3	6.0	4.7	5.7
PENNCROSS	3.0	3.0	3.0	5.3	5.7	5.0	4.7	4.3	4.0	4.0	3.0	4.5
LSD VALUE	1.0	0.9	1.0	0.9	0.9	0.8	0.7	0.8	0.9	0.6	0.7	0.3
C.V. (%)	12.3	11.7	11.7	8.3	7.7	8.3	7.0	7.9	8.3	6.6	8.4	2.8

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

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

TABLE 6.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE WITHOUT POA ANNUA SUPPRESSION AT WEST LAFAYETTE, IN 1/
2023 DATA

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

NAME	POA ANNUA	CANOPY SMOOTHNESS	DOLLAR SPOT		QUALITY RATINGS							MEAN	
			8/8	8/14	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
MATCH PLAY	9.0	8.0	8.3	7.0	7.0	8.0	7.7	8.0	5.7	7.7	7.0	7.3	7.3
OAKLEY (PPG-AP-MTV1)	8.7	6.3	9.0	8.0	6.7	7.3	7.3	7.7	6.7	7.0	7.0	7.0	7.1
PVF-PV-2	9.0	7.0	8.7	8.3	6.3	7.3	7.3	7.3	7.3	7.3	6.7	6.7	7.0
DLF-AP-3084	9.0	7.0	8.7	7.7	6.0	7.0	7.0	7.3	6.7	7.3	6.3	7.3	6.9
PST-OMRN	8.3	5.0	7.3	5.7	6.3	7.7	7.7	7.3	4.7	7.0	7.0	7.3	6.9
CHINOOK (H10G-OP)	9.0	7.0	8.0	7.0	6.0	7.0	7.3	7.0	5.7	7.7	6.7	7.0	6.8
PIRANHA	9.0	6.7	8.0	6.3	5.7	7.7	7.3	7.7	5.0	7.0	7.3	7.0	6.8
PST-RODS	8.0	6.3	8.7	7.0	5.3	6.3	7.7	7.0	6.0	7.3	7.0	7.3	6.8
PST-OR2O	8.3	5.7	8.0	6.0	5.3	6.3	7.0	7.3	5.3	7.0	7.7	7.3	6.7
PVF-PV-1	8.7	6.3	9.0	8.3	5.7	6.7	6.7	7.3	6.7	6.7	7.0	7.0	6.7
PIPER (PPG-AP-MTV2)	8.7	5.7	8.7	8.0	6.0	7.0	6.7	7.0	6.0	6.7	6.7	7.0	6.6
S1	8.7	6.7	9.0	7.0	6.0	6.7	7.0	7.0	5.7	7.3	6.3	6.7	6.6
007XL	8.7	5.3	8.7	8.0	6.0	6.3	7.0	6.7	6.3	6.3	6.7	6.3	6.5
SHARK	9.0	5.3	7.3	4.7	6.0	6.7	7.3	7.7	4.3	7.0	6.7	6.3	6.5
SPECTRUM (LNS 19)	8.7	5.3	9.0	8.3	5.3	7.0	6.7	7.0	7.3	6.7	6.3	6.0	6.5
TOURPRO	8.7	7.0	8.3	7.3	6.0	6.3	6.7	7.3	6.0	6.7	6.3	6.7	6.5
BARRACUDA	8.7	7.0	8.3	6.0	5.7	6.0	7.0	7.0	5.0	7.0	6.7	6.0	6.3
MUSKET	6.3	9.0	8.3	7.0	4.3	5.3	6.0	6.0	5.7	6.0	6.0	5.0	5.5
PENNCROSS	6.0	9.0	6.7	4.7	4.3	5.0	6.0	5.7	4.3	6.0	6.0	5.0	5.3
LSD VALUE	1.0	3.2	2.2	2.1	2.0	2.5	2.8	2.5	1.8	2.2	1.5	1.0	1.2
C.V. (%)	7.3	21.9	10.7	16.2	15.1	15.7	12.8	12.7	16.4	11.2	9.1	9.0	8.8

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

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

TABLE 7.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE EVALUATION PINK SNOW MOLD FOR DISEASE STUDY
AT QUEBEC CITY (CANADA) 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PINK SNOW MOLD	COLOR NOVEMBER	POA ANNUA	MAY	JUN	QUALITY RATINGS				MEAN
											JUL	AUG	SEP	OCT	
MUSKET	4.0	6.0	5.0	6.3	2.0	6.7	2.3	1.0	4.3	5.0	5.7	4.3	4.0	4.0	4.6
007XL	5.0	3.0	2.3	5.0	2.3	6.7	1.0	1.7	2.0	3.3	6.0	3.7	2.3	4.3	3.6
DLF-AP-3084	5.7	2.7	2.0	4.0	3.0	6.7	1.3	1.0	2.0	2.7	5.0	2.3	2.7	2.3	2.8
PENNCROSS	6.0	3.0	2.3	3.7	2.0	7.7	1.0	1.7	2.0	3.3	5.3	2.3	1.3	2.7	2.8
PIRANHA	5.0	2.7	1.7	4.3	2.7	7.0	1.7	1.0	1.7	2.7	6.0	2.0	2.0	2.7	2.8
SPECTRUM (LNS 19)	5.7	2.7	2.3	6.0	2.0	7.3	1.0	1.3	2.3	3.0	4.3	2.0	2.3	2.7	2.8
MATCH PLAY	3.3	2.3	2.0	2.7	2.7	7.3	1.0	1.7	2.0	2.3	4.3	2.7	2.3	2.7	2.7
PIPER (PPG-AP-MTV2)	5.0	2.7	2.0	4.7	3.7	6.0	1.3	1.3	1.7	2.7	5.0	2.0	2.7	2.0	2.7
SHARK	4.0	2.3	2.0	3.3	1.3	7.7	1.0	1.7	1.7	2.0	4.0	2.7	2.0	3.0	2.6
BARRACUDA	4.7	2.3	1.3	3.7	2.7	7.3	1.7	1.7	1.3	1.7	3.7	2.3	3.3	2.0	2.4
PST-OMRN	4.7	2.7	1.3	3.7	3.0	7.0	1.0	1.7	1.3	2.7	3.3	2.0	2.7	2.0	2.3
PST-OR20	5.0	2.7	2.0	4.0	1.7	6.3	1.7	1.3	2.0	2.7	3.7	2.0	2.0	1.7	2.3
CHINOOK (H10G-OP)	4.3	2.7	2.3	3.3	1.7	7.7	1.3	1.7	2.0	2.7	3.7	1.7	2.0	1.3	2.2
PVF-PV-1	3.3	3.0	2.3	3.7	2.7	7.0	1.0	1.7	1.7	2.0	2.7	2.7	2.3	2.0	2.2
S1	2.3	2.7	2.0	2.0	3.0	7.0	1.0	1.3	2.0	2.3	2.7	1.3	3.0	1.7	2.2
TOURPRO	4.0	2.0	1.3	3.3	1.7	7.7	2.0	1.3	1.3	2.0	3.3	2.3	2.3	2.0	2.2
OAKLEY (PPG-AP-MTV1)	4.3	2.3	1.3	3.3	2.3	8.0	1.0	1.3	1.3	2.0	3.0	1.0	2.0	1.0	1.7
PST-R0DS	2.7	2.3	1.7	2.3	2.0	7.7	2.0	1.0	1.3	2.3	2.0	2.0	1.3	1.0	1.7
PVF-PV-2	3.0	2.0	1.3	3.0	3.0	8.0	1.3	1.0	1.3	1.7	2.3	1.0	3.0	1.0	1.7
LSD VALUE	5.9	0.9	1.7	6.0	5.1	2.9	1.6	1.5	1.3	2.1	4.9	3.5	6.0	3.5	2.9
C.V. (%)	44.1	19.6	42.5	52.2	61.1	13.6	46.6	36.5	36.9	36.8	46.5	57.3	69.1	61.5	42.1

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 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE FOR WATER USE/DROUGHT TOLERANCE AT AMHERST, MA 1/
2023 DATA

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

NAME	TOTAL WATER	DAYS TO	PRE-DROUGHT	DROUGHT QUALITY RATINGS				MEAN
	APPLIED	REWATERING	6/13	7/11	7/24	7/31	8/2	
MUSKET	17	16	8.0	6.7	7.7	8.0	7.3	7.5
007XL	17	16	7.7	7.3	7.0	6.7	6.3	7.0
DLF-AP-3084	17	16	7.3	7.3	7.0	7.0	5.7	6.9
MATCH PLAY	17	16	7.3	7.0	7.3	7.0	6.0	6.9
OAKLEY (PPG-AP-MTV1)	17	16	8.0	6.7	7.0	6.7	6.0	6.9
PIPER (PPG-AP-MTV2)	17	16	7.7	7.3	7.7	6.7	5.3	6.9
PST-OMRN	17	16	7.3	8.0	7.0	6.7	5.7	6.9
PST-OR20	17	16	7.7	7.3	7.0	7.0	5.7	6.9
TOURPRO	17	16	7.3	7.0	7.0	7.0	6.3	6.9
SHARK	17	16	7.0	7.3	7.0	6.7	5.7	6.7
CHINOOK (H10G-OP)	17	16	7.7	7.7	6.7	6.0	5.0	6.6
PENNCROSS	17	16	6.0	7.3	6.3	7.0	6.3	6.6
PVF-PV-1	17	16	7.7	7.3	6.7	6.3	5.0	6.6
PVF-PV-2	17	16	7.3	7.3	6.3	6.3	5.7	6.6
SPECTRUM (LNS 19)	17	16	7.7	7.7	6.7	6.3	4.7	6.6
BARRACUDA	17	16	7.0	7.3	6.0	6.0	5.3	6.3
S1	17	16	6.7	8.0	6.0	6.0	5.0	6.3
PIRANHA	17	16	7.3	6.7	5.7	5.7	5.3	6.1
PST-R0DS	17	16	7.3	7.0	5.7	5.3	4.7	6.0
LSD VALUE	0	0	1.0	1.3	2.6	3.1	3.4	1.7
C.V. (%)	0	0	6.8	7.5	14.1	16.1	20.5	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 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE FOR WATER USE/DROUGHT TOLERANCE AT AMHERST, MA 1/
2023 DATA

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

NAME	PRE-DROUGHT PERCENT COVER			PERCENT GREEN COVER RATINGS-DROUGHT PERIOD				
	6/13	6/29	7/7	7/11	7/21	7/25	7/31	8/2
MUSKET	92.3	97.7	94.3	84.0	94.0	88.3	82.7	73.0
007XL	97.0	97.0	97.0	93.3	95.0	92.0	80.0	65.7
DLF-AP-3084	86.0	97.3	93.7	89.7	92.7	90.7	79.7	66.0
MATCH PLAY	91.0	96.7	96.7	90.7	91.3	85.7	82.3	63.3
OAKLEY (PPG-AP-MTV1)	94.0	96.0	96.7	86.3	93.3	90.3	73.3	57.7
PIPER (PPG-AP-MTV2)	94.0	94.7	97.7	91.0	93.0	90.0	82.3	66.0
PST-0MRN	96.0	97.7	98.0	94.3	92.0	86.3	78.7	71.3
PST-0R20	95.0	97.0	97.3	91.7	92.7	89.7	81.0	61.0
TOURPRO	93.3	96.0	95.0	86.0	89.7	82.7	75.7	66.7
SHARK	92.0	97.3	97.0	91.0	91.3	86.3	78.7	71.0
CHINOOK (H10G-OP)	91.3	98.7	93.0	86.0	89.0	80.7	74.0	59.0
PENNCROSS	93.0	97.3	93.7	89.3	94.3	90.3	85.3	78.7
PVF-PV-1	96.0	97.7	95.7	87.0	88.3	84.0	75.3	58.3
PVF-PV-2	93.0	97.3	96.3	87.7	89.3	85.7	69.7	55.0
SPECTRUM (LNS 19)	90.7	96.3	95.7	91.3	93.3	87.3	69.7	51.0
BARRACUDA	86.0	95.7	90.0	82.0	88.3	81.7	72.3	57.3
S1	86.7	95.3	93.0	83.0	88.0	72.3	64.7	52.0
PIRANHA	93.0	96.0	93.7	79.0	86.0	69.0	69.0	54.0
PST-RODS	94.7	96.7	94.3	82.0	72.7	65.7	57.0	39.0
LSD VALUE	6.0	7.3	6.7	20.6	10.0	20.2	22.2	52.5
C.V. (%)	3.5	2.2	3.0	8.2	5.7	11.0	12.6	27.9

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 9.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE FOR WATER USE/DROUGHT TOLERANCE AT AMHERST, MA 1/
2022 DATA

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

NAME	TOTAL WATER UNTIL APPLIED	DAYS REWATER	QUALITY RATINGS DURING DROUGHT PERIOD											MEAN
			7/7	7/22	7/29	7/30	7/30	7/31	8/1	8/2	8/3	8/17	9/1	
MUSKET	17	13.3	7.0	8.3	8.0	8.0	7.7	7.7	7.7	7.3	6.3	7.7	7.3	7.5
007XL	17	12.7	7.3	8.0	7.7	7.0	7.0	7.0	6.3	5.7	7.0	8.0	7.3	7.1
PVF-PV-1	17	11.7	7.3	7.7	7.0	7.0	7.0	6.7	6.7	6.3	5.5	8.0	7.7	7.0
OAKLEY (PPG-AP-MTV1)	17	13.3	7.0	8.0	7.3	7.0	7.0	7.0	6.3	6.3	4.0	7.7	7.3	6.9
PST-OR20	17	12.7	7.0	7.7	7.0	7.0	7.0	7.0	6.7	6.7	4.7	8.0	7.3	6.9
PIPER (PPG-AP-MTV2)	17	12.7	6.7	8.0	7.3	6.7	6.7	6.3	5.7	5.7	5.0	8.0	7.7	6.8
PVF-PV-2	17	12.0	6.3	8.0	7.3	7.0	7.0	7.0	6.0	5.0	.	7.7	6.7	6.8
SPECTRUM (LNS 19)	17	13.3	6.7	7.7	7.0	7.0	7.0	6.7	6.3	6.3	5.0	7.7	6.3	6.7
DLF-AP-3084	17	12.0	6.0	7.7	7.0	6.3	6.3	6.0	5.0	4.7	.	7.7	7.0	6.4
TOURPRO	17	11.0	6.0	7.7	6.3	6.0	6.0	6.0	5.7	5.7	5.0	8.0	7.0	6.4
PST-OMRN	17	11.0	6.7	7.7	6.0	5.7	5.7	6.0	5.7	5.3	5.0	7.7	6.7	6.2
PST-RODS	17	11.0	6.0	7.7	6.3	6.0	6.0	5.7	6.0	5.0	.	7.7	6.0	6.2
BARRACUDA	17	11.7	6.3	7.0	6.3	6.0	6.0	5.7	5.7	5.3	4.0	7.3	6.0	6.1
SHARK	17	11.0	6.0	7.7	6.7	6.0	6.0	5.3	5.0	4.7	.	7.3	6.7	6.1
CHINOOK (H10G-OP)	17	11.0	6.0	7.3	6.3	5.7	5.7	5.3	5.0	4.7	.	7.3	6.7	6.0
S1	17	11.3	6.0	7.0	7.0	6.3	6.3	6.3	5.0	4.3	.	7.0	4.7	6.0
PIRANHA	17	10.0	5.3	7.3	6.3	6.0	6.0	5.7	5.3	5.0	5.0	7.0	6.0	5.9
MATCH PLAY	17	10.0	6.0	7.0	5.7	5.0	5.0	5.0	4.7	4.0	.	7.3	5.7	5.5
PENNCROSS	17	8.7	4.7	5.7	4.7	4.3	4.3	4.7	4.7	3.7	.	5.3	4.0	4.6
LSD VALUE	0	5.1	2.9	1.2	2.3	2.7	2.8	2.9	2.4	2.4	3.0	1.0	2.8	1.6
C.V. (%)	0	16.6	16.7	8.4	15.0	18.0	18.2	18.7	17.9	21.1	16.6	7.4	19.1	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 9.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE FOR WATER USE/DROUGHT TOLERANCE AT AMHERST, MA 1/
2022 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/													
	PRE-DROUGHT 6/13	6/28	7/7	7/12	PERCENT GREEN COVER RATINGS-DROUGHT PERIOD									
				7/19	7/29	7/31	8/1	8/2	8/3	8/9	8/17	8/22	8/25	
MUSKET	92.3	99.0	81.5	80.7	92.7	99.0	98.7	99.0	99.0	97.3	97.7	99.0	99.0	99.0
007XL	97.0	98.7	93.7	94.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
PVF-PV-1	96.0	98.0	73.7	91.3	97.0	99.0	98.7	97.3	98.3	99.0	97.3	99.0	99.0	99.0
OAKLEY (PPG-AP-MTV1)	94.0	98.7	88.3	88.3	97.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
PST-0R20	95.0	98.7	92.0	92.7	97.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
PIPER (PPG-AP-MTV2)	94.0	99.0	89.3	92.7	97.7	99.0	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
PVF-PV-2	93.0	93.3	92.0	92.0	97.3	99.0	99.0	99.0	99.0	.	99.0	99.0	99.0	99.0
SPECTRUM (LNS 19)	90.7	99.0	93.5	92.7	98.3	99.0	97.3	99.0	92.0	99.0	99.0	99.0	99.0	99.0
DLF-AP-3084	86.0	97.7	88.3	84.7	94.0	99.0	99.0	99.0	99.0	.	99.0	99.0	99.0	99.0
TOURPRO	93.3	96.0	85.0	86.3	96.3	99.0	98.0	98.3	98.7	99.0	99.0	99.0	99.0	99.0
PST-0MRN	96.0	98.0	85.7	89.0	98.0	99.0	98.0	98.3	98.7	99.0	99.0	99.0	99.0	99.0
PST-R0DS	94.7	96.3	88.7	82.3	94.3	97.0	96.3	95.7	94.7	.	96.7	98.7	99.0	96.7
BARRACUDA	86.0	98.0	90.7	88.0	95.0	98.7	98.7	99.0	98.7	96.0	99.0	99.0	99.0	99.0
SHARK	92.0	98.7	85.7	86.7	96.7	99.0	99.0	99.0	99.0	.	99.0	99.0	99.0	99.0
CHINOOK (H10G-OP)	91.3	95.7	81.3	86.7	95.0	99.0	97.0	99.0	98.7	.	99.0	99.0	99.0	99.0
S1	86.7	98.0	85.0	85.0	95.3	94.7	93.0	93.7	90.3	.	97.0	93.7	99.0	85.7
PIRANHA	93.0	94.3	81.7	87.0	92.7	86.7	87.3	85.3	83.7	99.0	96.3	76.7	99.0	83.0
MATCH PLAY	91.0	90.0	81.0	84.0	93.0	96.3	89.3	90.3	88.0	.	95.7	98.3	98.0	99.0
PENNCROSS	93.0	92.7	62.0	60.3	81.7	89.3	80.3	87.0	87.0	.	93.3	69.7	99.0	95.3
LSD VALUE	6.0	15.6	27.1	10.1	4.6	17.8	17.2	21.4	30.6	5.2	9.4	43.2	1.4	25.9
C.V. (%)	3.5	5.1	12.6	6.9	2.9	6.2	7.4	7.6	10.0	1.5	3.1	15.1	0.4	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 10.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

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

NAME	IA1	NJ1	VA1	WI1	MEAN
PST-RODS	6.7	5.7	7.0	7.0	6.6
PST-0MRN	7.3	5.0	7.3	6.7	6.6
SPECTRUM (LNS 19)	3.3	9.0	7.0	6.3	6.4
PIRANHA	5.3	6.3	7.0	6.7	6.3
CHINOOK (H10G-OP)	4.3	6.3	7.3	7.0	6.3
PST-0R20	5.7	5.0	7.3	7.0	6.3
TOURPRO	4.3	7.7	6.7	6.3	6.3
PVF-PV-2	4.3	8.0	6.3	6.0	6.2
PIPER (PPG-AP-MTV2)	3.3	7.7	6.7	6.7	6.1
DLF-AP-3084	4.3	7.3	6.3	6.3	6.1
SHARK	4.3	6.7	7.0	6.3	6.1
007XL	3.7	6.7	6.3	6.7	5.8
BARRACUDA	4.3	5.3	7.0	6.7	5.8
MATCH PLAY	3.3	6.0	7.0	6.7	5.8
S1	3.7	6.3	7.0	6.0	5.8
OAKLEY (PPG-AP-MTV1)	4.0	6.3	6.3	6.0	5.7
PVF-PV-1	3.7	6.3	6.3	6.3	5.7
PENNCROSS	7.0	2.7	6.0	5.3	5.3
MUSKET	1.7	1.3	4.0	5.0	3.0
LSD VALUE	1.6	1.4	0.9	0.7	0.6
C.V. (%)	22.2	14.4	8.7	7.2	12.9

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

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

TABLE 11.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

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

NAME	IA1	NJ1	WI1	MEAN
007XL	3.0	7.0	4.3	4.8
CHINOOK (H10G-OP)	4.3	5.7	4.3	4.8
PVF-PV-2	3.3	6.7	4.0	4.7
TOURPRO	3.0	5.7	5.3	4.7
S1	3.3	4.7	5.7	4.6
OAKLEY (PPG-AP-MTV1)	3.7	5.7	4.0	4.4
MATCH PLAY	3.3	5.3	4.7	4.4
SPECTRUM (LNS 19)	1.0	8.0	4.0	4.3
DLF-AP-3084	2.3	5.7	4.7	4.2
MUSKET	4.7	2.0	6.0	4.2
PENNCROSS	5.7	1.0	6.0	4.2
PIPER (PPG-AP-MTV2)	1.7	7.3	3.7	4.2
PIRANHA	3.7	4.3	4.7	4.2
BARRACUDA	4.0	3.3	5.0	4.1
PVF-PV-1	2.7	6.3	3.3	4.1
PST-OR20	4.0	3.0	5.3	4.1
PST-R0DS	6.3	1.7	4.3	4.1
PST-OMRN	4.7	2.3	5.0	4.0
SHARK	3.7	3.3	5.0	4.0
LSD VALUE	3.9	1.5	1.5	1.5
C.V. (%)	67.7	20.0	19.9	37.0

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

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

TABLE 12.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

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

NAME	IN1	NJ1	MEAN
SPECTRUM (LNS 19)	7.3	8.3	7.8
DLF-AP-3084	7.0	8.0	7.5
007XL	8.0	6.7	7.3
MATCH PLAY	7.7	7.0	7.3
PIPER (PPG-AP-MTV2)	7.0	7.3	7.2
PST-OMRN	8.0	6.3	7.2
OAKLEY (PPG-AP-MTV1)	6.3	7.7	7.0
PVF-PV-1	7.0	7.0	7.0
PVF-PV-2	7.3	6.7	7.0
TOURPRO	7.3	6.7	7.0
PST-OR20	7.3	6.3	6.8
CHINOOK (H10G-OP)	7.3	6.0	6.7
PST-R0DS	7.3	5.7	6.5
BARRACUDA	7.0	5.7	6.3
MUSKET	5.7	7.0	6.3
PIRANHA	6.7	5.7	6.2
S1	7.0	4.7	5.8
SHARK	6.7	5.0	5.8
PENNCROSS	4.3	1.3	2.8
LSD VALUE	1.1	1.6	1.0
C.V. (%)	9.9	15.7	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 13.

SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/			
	IA1	VA1	WI1	MEAN
MUSKET	8.7	9.0	5.3	7.7
MATCH PLAY	9.0	7.7	5.3	7.3
S1	8.7	7.3	6.0	7.3
TOURPRO	8.7	7.3	6.0	7.3
PIRANHA	8.3	7.7	5.7	7.2
PST-0R20	8.3	7.0	6.3	7.2
CHINOOK (H10G-OP)	9.0	7.3	5.3	7.2
OAKLEY (PPG-AP-MTV1)	8.7	7.7	5.3	7.2
BARRACUDA	8.3	7.0	6.0	7.1
PVF-PV-1	8.7	7.7	5.0	7.1
PVF-PV-2	9.0	7.0	5.3	7.1
SPECTRUM (LNS 19)	9.0	7.0	5.3	7.1
SHARK	8.3	7.0	5.7	7.0
007XL	9.0	7.0	4.7	6.9
DLF-AP-3084	8.3	6.7	5.7	6.9
PIPER (PPG-AP-MTV2)	9.0	7.3	4.3	6.9
PST-0MRN	8.3	6.3	5.3	6.7
PST-R0DS	8.0	6.3	5.7	6.7
PENNCROSS	6.0	4.0	4.0	4.7
LSD VALUE	1.4	1.0	1.3	0.7
C.V. (%)	10.0	9.0	14.5	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 14.

SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

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

NAME	IA1	IN1	WI1	MEAN
PST-0MRN	9.0	8.3	7.7	8.3
PST-0R20	9.0	8.0	8.0	8.3
OAKLEY (PPG-AP-MTV1)	9.0	8.3	7.3	8.2
PST-R0DS	9.0	8.3	7.3	8.2
007XL	9.0	8.7	7.0	8.2
SPECTRUM (LNS 19)	9.0	8.0	7.3	8.1
PIPER (PPG-AP-MTV2)	9.0	8.0	7.0	8.0
PVF-PV-1	9.0	7.3	7.7	8.0
CHINOOK (H10G-OP)	9.0	7.3	7.3	7.9
PVF-PV-2	9.0	7.3	7.3	7.9
MATCH PLAY	9.0	7.7	6.7	7.8
BARRACUDA	9.0	7.3	7.0	7.8
DLF-AP-3084	9.0	7.0	7.0	7.7
SHARK	9.0	7.0	7.0	7.7
TOURPRO	9.0	7.0	7.0	7.7
PIRANHA	8.7	6.7	7.3	7.6
S1	8.7	7.0	7.0	7.6
MUSKET	9.0	5.7	7.3	7.3
PENNCROSS	8.3	4.0	5.0	5.8
LSD VALUE	0.4	1.1	1.1	0.6
C.V. (%)	2.6	9.7	9.8	7.6

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 15.

FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

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

NAME	IA1	NJ1	WI1	MEAN
SPECTRUM (LNS 19)	9	8.7	7.3	8.3
PIPER (PPG-AP-MTV2)	9	8.0	7.7	8.2
PVF-PV-1	9	7.3	7.7	8.0
DLF-AP-3084	9	7.7	7.0	7.9
OAKLEY (PPG-AP-MTV1)	9	7.3	7.3	7.9
PVF-PV-2	9	7.0	7.3	7.8
007XL	9	6.7	7.3	7.7
MATCH PLAY	9	6.7	7.3	7.7
PST-OMRN	9	6.0	7.7	7.6
TOURPRO	9	6.7	7.0	7.6
MUSKET	9	6.7	6.7	7.4
CHINOOK (H10G-OP)	9	6.3	7.0	7.4
PIRANHA	9	5.3	7.0	7.1
PST-OR2O	9	5.0	7.3	7.1
PST-R0DS	9	5.3	7.0	7.1
BARRACUDA	9	4.7	7.0	6.9
S1	9	4.7	7.0	6.9
SHARK	9	4.7	7.0	6.9
PENNCROSS	9	1.0	5.3	5.1
LSD VALUE	0	1.4	0.8	0.5
C.V. (%)	0	14.4	7.0	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 16.

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	IA1
PIPER (PPG-AP-MTV2)	96.7
SPECTRUM (LNS 19)	96.7
DLF-AP-3084	96.0
TOURPRO	95.0
OAKLEY (PPG-AP-MTV1)	94.7
PVF-PV-1	94.7
007XL	94.3
MATCH PLAY	94.0
S1	94.0
PVF-PV-2	93.7
PIRANHA	93.3
CHINOOK (H10G-OP)	92.0
BARRACUDA	91.7
PST-0R20	91.0
PST-0MRN	89.3
SHARK	88.7
PST-R0DS	84.0
MUSKET	81.3
PENNCROSS	78.0
LSD VALUE	14.5
C.V. (%)	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 17.

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IA1
007XL	99
BARRACUDA	99
CHINOOK (H10G-OP)	99
DLF-AP-3084	99
MATCH PLAY	99
MUSKET	99
OAKLEY (PPG-AP-MTV1)	99
PENNCROSS	99
PIPER (PPG-AP-MTV2)	99
PIRANHA	99
PST-0MRN	99
PST-0R20	99
PST-R0DS	99
PVF-PV-1	99
PVF-PV-2	99
S1	99
SHARK	99
SPECTRUM (LNS 19)	99
TOURPRO	99
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 18.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IA1
PIPER (PPG-AP-MTV2)	98.7
PVF-PV-2	98.3
S1	98.3
PVF-PV-1	97.3
SPECTRUM (LNS 19)	96.7
007XL	96.3
MATCH PLAY	96.3
CHINOOK (H10G-OP)	96.0
BARRACUDA	95.3
PST-0MRN	94.0
OAKLEY (PPG-AP-MTV1)	93.0
TOURPRO	92.3
PIRANHA	91.3
DLF-AP-3084	89.7
PST-R0DS	89.7
MUSKET	89.0
PST-0R20	87.7
PENNCROSS	83.0
SHARK	82.0
LSD VALUE	12.9
C.V. (%)	8.6

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 19.

DROUGHT TOLERANCE (WILTING) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	VAL
PENNCROSS	6.7
PST-0R20	6.3
PST-R0DS	6.0
SHARK	6.0
BARRACUDA	5.7
PST-0MRN	5.7
SPECTRUM (LNS 19)	5.7
007XL	5.3
PVF-PV-2	5.3
S1	5.3
DLF-AP-3084	5.0
MATCH PLAY	5.0
PVF-PV-1	5.0
CHINOOK (H10G-OP)	4.7
MUSKET	4.7
OAKLEY (PPG-AP-MTV1)	4.7
PIRANHA	4.7
TOURPRO	4.7
PIPER (PPG-AP-MTV2)	4.3
LSD VALUE	1.5
C.V. (%)	17.7

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

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

TABLE 20.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

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

NAME	IN1	NJ1	VA1	MEAN
MUSKET	8.3	8.0	8.0	8.1
SPECTRUM (LNS 19)	9.0	7.0	6.7	7.6
PVF-PV-2	9.0	5.3	7.7	7.3
DLF-AP-3084	8.0	6.0	7.0	7.0
PVF-PV-1	9.0	5.0	7.0	7.0
S1	8.3	5.3	7.3	7.0
MATCH PLAY	8.3	4.7	7.3	6.8
007XL	8.3	5.7	6.0	6.7
PIPER (PPG-AP-MTV2)	8.7	4.0	7.3	6.7
BARRACUDA	7.7	5.0	7.0	6.6
OAKLEY (PPG-AP-MTV1)	8.3	5.0	6.3	6.6
PIRANHA	8.0	4.7	7.0	6.6
CHINOOK (H10G-OP)	7.3	5.0	7.0	6.4
TOURPRO	7.3	5.7	6.3	6.4
PST-R0DS	8.3	3.7	5.0	5.7
SHARK	6.0	3.3	6.0	5.1
PENNCROSS	6.0	4.0	4.3	4.8
PST-OR20	7.3	3.0	4.0	4.8
PST-OMRN	6.3	3.3	4.3	4.7
LSD VALUE	1.5	1.6	1.2	0.8
C.V. (%)	12.0	19.7	11.3	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 21.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2023 DATA

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

NAME	NJ1
DLF-AP-3084	8.3
PIPER (PPG-AP-MTV2)	8.3
PST-0MRN	8.3
SPECTRUM (LNS 19)	8.3
007XL	8.0
OAKLEY (PPG-AP-MTV1)	7.7
PVF-PV-1	7.7
PVF-PV-2	7.3
BARRACUDA	7.0
CHINOOK (H10G-OP)	7.0
MATCH PLAY	6.7
PIRANHA	6.7
SHARK	6.7
PST-0R20	6.0
PST-RODS	5.7
TOURPRO	5.7
S1	5.3
PENNCROSS	4.7
MUSKET	2.3
LSD VALUE	2.2
C.V. (%)	20.5

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

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

TABLE 22.

FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2023 DATA

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

NAME	W11
S1	7.0
007XL	6.7
PST-0MRN	6.7
SHARK	6.7
BARRACUDA	6.3
CHINOOK (H10G-OP)	6.3
MATCH PLAY	6.3
PIPER (PPG-AP-MTV2)	6.3
PIRANHA	6.3
PST-0R20	6.3
PST-R0DS	6.3
PVF-PV-1	6.3
PVF-PV-2	6.3
TOURPRO	6.3
DLF-AP-3084	6.0
OAKLEY (PPG-AP-MTV1)	6.0
PENNCROSS	6.0
SPECTRUM (LNS 19)	6.0
MUSKET	5.3
LSD VALUE	1.0
C.V. (%)	10.1

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 23.

POA ANNUA RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2023 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/

NAME	IN1
MATCH PLAY	9.0
SHARK	9.0
DLF-AP-3084	8.7
OAKLEY (PPG-AP-MTV1)	8.7
PIRANHA	8.7
PVF-PV-1	8.7
007XL	8.3
BARRACUDA	8.3
CHINOOK (H10G-OP)	8.3
PIPER (PPG-AP-MTV2)	8.3
PST-0MRN	8.3
PST-0R20	8.3
PVF-PV-2	8.3
S1	8.3
SPECTRUM (LNS 19)	8.3
TOURPRO	8.3
PST-RODS	8.0
PENNCROSS	6.3
MUSKET	5.7
LSD VALUE	1.1
C.V. (%)	8.1

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 24.

MOWING QUALITY RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2023 DATA

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

NAME	IN1
PENNCROSS	8.7
MUSKET	8.0
PIRANHA	8.0
PST-0R20	8.0
OAKLEY (PPG-AP-MTV1)	7.7
PST-0MRN	7.7
SHARK	7.7
MATCH PLAY	7.3
S1	7.3
CHINOOK (H10G-OP)	6.7
PVF-PV-2	6.7
007XL	6.3
DLF-AP-3084	6.3
PIPER (PPG-AP-MTV2)	6.3
PST-R0DS	6.3
BARRACUDA	6.0
PVF-PV-1	5.7
TOURPRO	5.7
SPECTRUM (LNS 19)	5.3
LSD VALUE	2.9
C.V. (%)	26.1

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 25.

CANOPY SMOOTHNESS RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2023 DATA

CANOPY SMOOTHNESS RATINGS 1-9; 9=SMOOTH 2/

NAME	IN1
MUSKET	9.0
PENNCROSS	9.0
MATCH PLAY	7.3
CHINOOK (H10G-OP)	6.7
BARRACUDA	6.3
PIRANHA	6.3
SHARK	6.3
DLF-AP-3084	6.0
PST-R0DS	6.0
PVF-PV-2	6.0
S1	6.0
TOURPRO	6.0
PVF-PV-1	5.7
OAKLEY (PPG-AP-MTV1)	5.0
PST-0MRN	5.0
007XL	4.7
PST-0R20	4.7
SPECTRUM (LNS 19)	4.7
PIPER (PPG-AP-MTV2)	3.7
LSD VALUE	2.4
C.V. (%)	24.5

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 26.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT WEST LAFAYETTE, IN 1/
2023 DATA

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

NAME	8/8	8/14	MEAN
SPECTRUM (LNS 19)	9.0	8.0	8.5
PVF-PV-2	9.0	7.7	8.3
PIPER (PPG-AP-MTV2)	8.7	7.7	8.2
PVF-PV-1	9.0	7.3	8.2
007XL	8.3	7.7	8.0
OAKLEY (PPG-AP-MTV1)	8.3	7.3	7.8
PST-R0DS	8.3	7.0	7.7
MUSKET	8.3	6.7	7.5
S1	8.3	6.7	7.5
DLF-AP-3084	8.0	6.7	7.3
MATCH PLAY	8.3	6.3	7.3
CHINOOK (H10G-OP)	7.3	6.7	7.0
PIRANHA	8.0	6.0	7.0
TOURPRO	7.3	6.3	6.8
BARRACUDA	7.7	5.3	6.5
PST-OR20	7.3	5.7	6.5
PST-OMRN	6.3	4.7	5.5
SHARK	6.0	4.3	5.2
PENNCROSS	6.0	3.7	4.8
LSD VALUE	1.7	2.2	1.8
C.V. (%)	11.9	18.7	13.8

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

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

TABLE 27.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT BLACKSBURG, VA 1/
2023 DATA

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

NAME	AUGUST	SEPTEMBER	MEAN
MUSKET	8.0	8.3	8.2
PVF-PV-2	7.7	7.0	7.3
DLF-AP-3084	7.0	7.3	7.2
CHINOOK (H10G-OP)	7.0	7.0	7.0
MATCH PLAY	7.3	6.7	7.0
PIPER (PPG-AP-MTV2)	7.3	6.7	7.0
PIRANHA	7.0	7.0	7.0
PVF-PV-1	7.0	6.7	6.8
S1	7.3	6.3	6.8
TOURPRO	6.3	7.0	6.7
BARRACUDA	7.0	6.0	6.5
SPECTRUM (LNS 19)	6.7	6.3	6.5
OAKLEY (PPG-AP-MTV1)	6.3	6.0	6.2
007XL	6.0	5.7	5.8
SHARK	6.0	5.0	5.5
PST-RODS	5.0	5.0	5.0
PST-OMRN	4.3	4.3	4.3
PST-OR20	4.0	4.3	4.2
PENNCROSS	4.3	3.0	3.7
LSD VALUE	1.1	1.3	1.1
C.V. (%)	11.3	13.3	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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
007XL	5.9	0
BARRACUDA	5.9	20
CHINOOK (H10G-OF)	6.0	0
DLF-AP-3084	6.3	20
MATCH PLAY	6.2	40
MUSKET	5.5	0
OAKLEY (PPG-AP-MTV1)	6.3	40
PENNCROSS	4.5	0
PIPER (PPG-AP-MTV2)	6.0	0
PIRANHA	6.1	40
PST-OMRN	5.6	20
PST-OR20	5.8	40
PST-R0DS	5.5	0
PVF-PV-1	6.1	0
PVF-PV-2	6.4	80
S1	6.0	20
SHARK	5.7	20
SPECTRUM (LNS 19)	6.3	20
TOURPRO	6.0	40
LSD VALUE	0.4	
C.V. (%)	9.7	

*/ 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 VALUE 0.05).

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

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

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