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ON-SITE TESTING OF BENTGRASS AND BERMUDAGRASS CULTIVARS FOR GOLF COURSE PUTTING GREENS

INTRODUCTION

There is growing interest within the golfing industry to develop on-site testing of turfgrass cultivars. This concept is not new, but has not been a common practice in recent years. Therefore, the Golf Course Superintendents Association of America (GCSAA), United States Golf Association Green Section (USGA), and the National Turfgrass Evaluation Program (NTEP) have agreed to revitalize on-site testing of turfgrass cultivars on golf courses, particularly on putting greens. This project conducts evaluations of new bentgrass and bermudagrass cultivars on USGA specification putting greens constructed at golf courses across the country. This on-site testing program is designed to provide scientific information of a more applied nature about putting green turfgrass cultivar performance.

Information from this project is valuable to the golfing industry. These studies will determine the adaptation of grasses for golf course use. In addition, information obtained from on-site testing will be of particular value to plant breeders, researchers, extension educators, USGA agronomists, golf course architects, and superintendents, who need to select the best adapted putting green cultivars for a particular regional climate.

A five-person committee composed of Dr. Jeff Nus, GCSAA Research Director; Dr. Mike Kenna, USGA Research Director; Mr. James Moore, USGA Construction Education Coordinator, Mr. Kevin Morris, NTEP Executive Director; and Dr. Bob Shearman, NTEP Special Projects Coordinator determined the trial site locations and the trial specifics. Input from golf course superintendents, USGA agronomists and turfgrass researchers assisted the committee members' decision making process.

Location & Number of Trial Sites

These cultivar evaluation trials are jointly sponsored and supported by the GCSAA, USGA-Green Section, and NTEP. The USGA funded the construction of USGA specification greens for the trials. Trial sites are located on golf courses near a land grant university with a turfgrass research program or in a major metropolitan area which is readily accessible to a university turfgrass scientist. Sixteen (16) regional evaluation trial sites have been established. Trials are located in: a) northern locations for bentgrasses, b) southern locations for bermudagrass, and c) transition zone locations for both species. Trials are located where golfers practice putting and/or chipping. Host clubs provide daily maintenance of the putting green site at their own expense.

Trial Specifics

The NTEP functions as the coordinating agent for the cultivar trials. These trials are five years in duration. Trials are conducted under mutually agreed upon guidelines, procedures, and funding outlined in a research agreement agreed to and signed by the appropriate representatives of GCSAA, USGA, and NTEP and each research cooperator (i.e. university turfgrass researcher). Trials are conducted at each location under the leadership of the assigned research cooperator. These persons are responsible for establishing and conducting the trial, and collecting and transferring the data to NTEP according to the research agreement.

Trials are maintained by the golf course superintendent at each location using management procedures common to their golf course, the geographical area and in consultation with the research cooperator. No special management practices are prescribed as these trials are intended to receive real-world golf course conditions and stresses.

ON-SITE TESTING (continued)

These trials are conducted principally with commercially available, named cultivars. Experimental lines that will be commercially available in the near future (i.e. before the end of the test cycle) were also included in these trials at the sponsoring company's discretion.

The NTEP administers the program and its funding, sets the advisory committee and gathers their input and recommendations for each species trial. The NTEP organizes and distributes the seed and vegetative materials which constitute the entries for each trial location. The NTEP provides the maintenance and data collection protocols to each site; collects, analyzes and disseminates the performance data in annual and final reports; and conducts an annual site visit for each trial.

For more information or additional copies of reports, please contact:

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NTEP reports can also be found on the World Wide Web at <http://www.ntep.org>.

ON-SITE PUTTING GREEN TEST LOCATIONS

Golf Course	Location	Superintendent	Research Cooperator
<i>Bentgrass only</i>			
Crystal Springs Golf Course	Burlingame, California	Ray Davies	Dr. Ali Harivandi, California Cooperative Extension
Fox Hollow at Lakewood	Lakewood, Colorado	Bruce Nelson	Dr. Tony Koski, Colorado State University
Lassing Pointe Golf Course	Florence, Kentucky	Jerry Coldiron	Dr. A. J. Powell, University of Kentucky
North Shore Country Club	Glenview, Illinois	Dan Dinelli	Dr. Tom Voigt, University of Illinois
Purdue University Kampen Course	West Lafayette, Indiana	Jim Scott	Dr. Zac Reicher, Purdue University
Snoqualmie Ridge C. C.	Snoqualmie, Washington	Tom Wolff	Dr. Gwen Stahnke, Washington State University
Westchester Country Club	Rye, New York	Joe Alonzi	Dr. James Murphy, Rutgers University
Westwood Golf Course	Vienna, Virginia	Walter Montross	Dr. David Chalmers, Virginia Tech University
<i>Bentgrass and Bermudagrass</i>			
Bent Tree Country Club	Dallas, Texas	Keith Ihms	Dr. Milt Engelke, Texas A&M University
Country Club of Birmingham	Birmingham, Alabama	Lee McLemore	Dr. Elizabeth Guertal, Auburn University
Country Club of Green Valley	Green Valley, Arizona	Mike Bates	Dr. David Kopec, University of Arizona
The Missouri Bluffs	St. Charles, Missouri	Mike Vogt	Dr. John Dum, University of Missouri
SCGA Members Club	Murrieta, California	John Martinez	Dr. Robert Green, University of California-Riverside
<i>Bermudagrass only</i>			
Country Club of Mobile	Mobile, Alabama	Ron Wright	Dr. Bryan Unruh, University of Florida
Jupiter Island Club	Hobe Sound, Florida	Rob Kloska	Dr. John Cisar, University of Florida
Lakeside Country Club	Houston, Texas	Mike Sandburg	Dr. Richard White, Texas A&M University

USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor
1	L-93	Simplot Turf & Horticulture
2	Putter	Simplot Turf & Horticulture
3	Cato	Pickseed West, Inc.
4	Crenshaw	ProSeeds Marketing, Inc.
5	Grand Prix (LCB-103)	LESCO, Inc.
6	Penncross	Standard entry
7	Backspin	Turf Merchants, Inc.
8	Trueline	Turf Merchants, Inc.
9	Providence	Seed Research of Oregon
10	SR 1020	Seed Research of Oregon
11	SR 1119	Seed Research of Oregon
12	Viper	Cebeco International Seeds, Inc.
13	Century	ProSeeds Marketing, Inc.
14	Imperial	ProSeeds Marketing, Inc.
15	Penn A-1	Tee-2-Green Corp.
16	Penn A-4	Tee-2-Green Corp.
17	Penn G-6	Tee-2-Green Corp.
18	Penn G-1	Tee-2-Green Corp.

TABLE 1A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Seeding date	16-Sep-97	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	None						(1000 sq.ft.)
		Foliar application					
FACTORS OF PLAY		applied weekly in Feb. - Nov.		1/10-1/32 lb N	March, May, late July, and Sept.	Pre-San	2 lbs. product
		Granular application					
Date opened for play	year round	Feb., March, April	26-0-22 (Nutralene+KNO ₃)	0.5-0.6 lb. N			
Date closed for play		May, June	K ₂ SO ₄ (0-0-24)	1 lb. K ₂ O			
Type of spikes allowed	softspikes	September	26-0-22 (Nutralene+KNO ₃)	0.6 lb. N			
Uses of green	chipping	October	26-0-22 (Nutralene+KNO ₃)	0.6 lb. N			
MOWING					INSECTICIDES		
Initial height	0.25"	FUNGICIDES			Date(s)	Product	Rate (oz./M)
Current height	0.135 -0.150"	Date(s)	Product	Rate (oz./M)			
Frequency	6-7 days/week			(1000 sq.ft.)	as needed for cutworms	Talstar	1 lb./100 sq.ft.
Type of mower	Toro 800 walk				early May	Nemacur	2.3 lbs./1000 sq.ft.
Rollers used	Rolling as needed (1/2x/week)	Fungicides applications are made from Feb. to early Dec. depending on weather conditions. Big problem with pythium so Alliette, Banol, Subdue, and Heritage are	Alliette	4			
Groomers used	6-7x/week Oct-June		Banol	2			
CULTIVATION			Subdue Maxx	1	OTHER PRODUCTS		
			Dithane	4	Date(s)	Product	Rate (oz./M)
			Daconil Ultrex	4-8 oz.			
Aerification - dates	5/8" hollow x 2 direction - Feb. 1/4" hollow tine (June-August) 5/8" tine - Sept. Hydroject every other week (Feb.- Nov.).	rotated and sprayed on a two weeks schedule in May-Nov.	Heritage	0.4	weekly as needed	Astron	1
			Consyst	4	weekly as needed	Perkup	3
			Terrazole	6	6-May-98	Primo	8 oz./Acre
Verticutting	Lightly verticut in April & June.				10-Jun-98	Primo	8 oz./Acre
Dates of topdressing		Heavy topdressed after Feb. and Sept. aerifications to fill holes. Lightly topdressed biweekly during growing season.			NOTES/COMMENTS		
					This green gets a lot of play.		
Other cultural practices		Rolled heavy after aerifications					

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TABLE 1B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM) 1/
2000 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	WINTER COLOR	FALL	FALL	FALL	FALL	QUALITY RATINGS													
				COLOR SEPTEMBER	COLOR OCTOBER	COLOR NOVEMBER	COLOR DECEMBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	
PENN A-1	6.0	7.3	6.0	7.7	7.7	6.0	7.0	7.3	7.0	7.3	7.3	7.3	7.7	7.3	7.7	7.0	7.3	7.0	7.0	7.0	7.3
PENN A-4	5.7	7.0	5.7	7.3	7.7	6.0	7.0	7.7	7.0	8.0	7.0	7.3	7.7	7.3	7.3	7.0	7.0	6.7	7.7	7.0	7.3
CENTURY	5.0	7.3	5.0	7.3	7.0	6.3	6.3	6.7	7.0	6.7	7.0	7.0	7.3	7.7	5.7	7.0	7.0	6.7	7.0	6.9	6.9
PENN G-1	5.7	6.3	5.7	7.3	7.3	6.3	6.3	6.7	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.3	6.3	6.3	6.9	6.9
BACKSPIN	6.0	7.0	6.0	6.7	7.0	5.3	6.7	6.3	7.0	6.3	7.0	7.0	7.0	7.3	6.0	7.0	7.0	6.0	7.0	6.8	6.8
GRAND PRIX (LCB-103)	5.3	6.7	5.3	7.0	6.7	5.0	7.0	6.0	7.0	7.7	6.7	7.0	7.0	7.0	6.7	6.7	7.0	6.7	6.7	6.8	6.8
IMPERIAL	6.3	6.7	6.3	7.0	7.3	5.7	6.7	5.7	6.7	6.3	7.0	7.0	7.0	7.3	6.3	7.0	7.0	6.7	6.3	6.7	6.7
SR 1020	6.3	6.3	6.3	6.0	6.7	6.0	6.3	6.7	7.0	6.7	7.0	7.0	6.7	7.0	7.0	5.7	7.0	6.3	6.0	6.7	6.7
CRENSHAW	7.0	6.7	7.0	7.0	6.7	7.0	6.0	6.7	6.3	5.7	7.0	7.3	7.0	7.0	7.0	7.0	7.0	6.3	5.0	6.6	6.6
PENN G-6	6.3	6.3	6.3	7.0	7.0	6.3	6.3	6.0	6.7	6.3	7.0	6.7	7.0	6.7	6.3	7.0	7.0	6.3	6.3	6.6	6.6
PROVIDENCE	7.3	6.0	7.3	6.0	7.0	7.0	6.7	5.7	6.7	5.7	7.0	6.7	7.0	7.0	6.3	6.3	7.0	6.7	5.7	6.5	6.5
SR 1119	7.7	6.3	7.7	6.3	7.0	7.7	6.7	6.0	6.7	5.7	7.0	6.7	6.7	7.0	6.7	7.0	6.7	6.7	5.7	6.5	6.5
L-93	6.7	5.7	6.7	6.0	6.7	7.0	6.3	6.0	6.7	6.3	6.7	6.3	6.7	6.7	7.0	6.3	6.7	6.0	6.0	6.4	6.4
PUTTER	6.3	5.3	6.3	5.7	6.3	6.3	6.3	6.7	7.0	5.7	6.7	6.0	6.0	6.0	6.3	5.7	6.7	6.0	6.0	6.2	6.2
TRUELINE	7.0	5.7	7.0	5.7	6.3	6.3	6.3	6.0	6.3	6.0	7.0	6.3	6.3	6.3	6.0	6.0	6.0	6.0	5.7	6.2	6.2
CATO	7.0	5.0	7.0	5.3	6.3	6.3	6.0	5.7	6.7	5.7	6.3	6.3	6.3	6.3	5.7	5.3	6.7	6.3	5.7	6.1	6.1
VIPER	7.3	5.3	7.3	6.0	6.3	7.0	6.0	5.7	6.3	5.7	7.0	6.0	6.0	6.3	6.3	6.0	6.3	6.0	5.7	6.1	6.1
PENNCROSS	6.0	4.7	6.0	4.7	6.0	5.7	6.0	5.3	6.0	5.0	5.7	6.3	5.7	6.0	4.3	4.7	5.3	5.0	4.7	5.3	5.3
LSD VALUE	1.0	1.2	1.0	1.1	1.3	1.1	1.0	1.5	1.2	1.1	0.8	0.9	0.8	1.7	1.2	1.2	0.6	1.1	1.0	0.3	0.3
C.V. (%)	9.0	11.0	9.0	10.0	8.7	9.6	6.8	11.6	6.9	9.9	6.0	6.8	7.1	10.1	10.8	10.4	5.7	8.3	9.8	3.3	3.3

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

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

TABLE 2A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY)

ESTABLISHMENT		FERTILIZATION			INSECTICIDES		
Seeding date	October 1997	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	one plot washed out-replanted	start 10/ to 5/15 (bi-weekly)	Florentine liquid	0.25 lbs. N	April	Bill bugs adults treated with dilox at lable rate	
FACTORS OF PLAY		2/22, 3/30	15-15-15	1 lbs. N	May	Bill bugs and rove beetles treated with fonofos - crusade at lable rate	
Date opened for play	Open all year						
Date closed for play							
Type of spikes allowed	soft only						
Uses of green	Practice putting						
MOWING		FUNGICIDES			OTHER PRODUCTS		
Initial height	5/32"	Date(s)	Product	Rate (oz./M)	Date(s)	Product	Rate (oz./M)
Current height	5/32"						
Frequency	6X/week	None					
Type of mower	walk (Mon.-Fri.), triplex - Sat.						
Rollers used	Grooved roller						
Groomers used	None						
CULTIVATION		HERBICIDES			NOTES/COMMENTS		
Aerfication - dates	Quad tine - 3/30, 6/6	Date(s)	Product	Rate (oz./M)			
Aerification - type	Hollow tine - 11/24, 4/27						
Verticutting	Vert Lite - 10/6, 11/24, 1/25, 4/27, 3/30, 2/22						
Dates of topdressing	Same as lite vert dates						
Other cultural practices							

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TABLE 2B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY) 1/
2000 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
TURFGRASS STIMPMETER READINGS MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY RATINGS			PERCENT LIVING COVER			WINTER COLOR	FALL	FALL	FALL	FALL	STIMPMETER READINGS		
				SPRING	SUMMER	FALL	SPRING	SUMMER	FALL		COLOR	COLOR	COLOR	COLOR	SPRING	SUMMER	FALL
PENN A-4	6.3	7.0	8.3	8.3	8.0	8.7	99.0	99.0	99.0	5.3	6.7	6.7	7.0	6.7	100.0	112.3	92.0
BACKSPIN	5.3	6.7	7.3	7.3	7.3	8.0	96.0	97.0	97.7	6.3	5.3	4.3	4.7	5.7	99.0	107.7	91.0
PENN A-1	5.7	5.3	7.3	6.7	7.0	7.3	93.0	97.0	97.7	5.7	6.7	6.0	6.0	6.3	106.3	115.0	99.3
SR 1119	6.7	7.0	7.3	7.7	7.0	7.3	98.3	97.3	98.7	7.0	7.0	6.3	6.7	6.7	95.0	115.7	88.7
CENTURY	5.3	5.0	7.7	8.0	6.7	7.7	95.3	94.0	99.0	5.3	6.0	5.3	5.3	5.7	115.7	106.0	104.3
GRAND PRIX (LCB-103)	4.7	4.7	7.7	8.0	7.7	7.7	98.7	98.7	98.7	5.0	5.0	4.3	4.3	5.0	99.3	110.3	97.0
L-93	5.7	6.3	6.7	7.0	7.0	7.7	97.3	97.0	98.7	6.7	6.3	5.3	6.0	6.3	104.3	108.0	98.0
SR 1020	5.3	6.3	6.7	6.7	6.0	7.0	93.3	91.7	96.7	6.3	6.0	4.0	5.0	6.3	110.3	108.0	96.3
PROVIDENCE	5.7	7.0	6.0	6.7	6.0	7.0	94.3	92.3	97.3	6.7	6.7	4.7	5.3	6.0	94.7	104.7	95.0
PENN G-1	5.7	7.0	7.3	8.0	7.7	7.7	98.3	98.3	99.0	5.7	5.3	5.0	5.3	5.3	104.0	112.7	92.3
IMPERIAL	5.0	6.0	7.3	7.7	7.0	7.7	97.7	97.0	97.7	5.3	6.0	4.7	5.0	5.0	102.7	109.3	100.3
TRUELINE	6.0	6.3	6.7	7.0	6.3	7.3	96.7	95.0	98.7	6.3	6.7	4.7	5.3	5.7	103.0	108.3	99.7
CRENSHAW	6.0	6.0	7.0	7.0	7.0	6.7	95.3	97.3	96.7	7.0	6.3	5.3	6.0	6.7	100.3	110.0	94.0
VIPER	6.0	7.3	6.7	7.0	6.7	6.7	95.0	94.0	97.3	7.3	7.7	4.7	6.0	7.0	103.0	110.0	96.3
PENN G-6	6.0	6.3	7.0	6.7	6.7	7.0	95.0	96.7	97.7	6.0	5.3	4.0	5.0	5.7	107.3	107.3	102.3
CATO	5.3	6.0	7.0	7.3	6.7	6.7	95.3	96.7	97.3	5.7	6.0	5.0	5.3	5.3	107.7	107.3	101.3
PUTTER	4.7	5.3	6.3	6.0	5.7	7.0	90.0	90.0	97.0	5.7	5.7	4.7	5.3	4.7	99.3	110.3	92.7
PENNCROSS	4.0	4.7	5.7	6.3	5.3	6.3	91.7	86.7	96.0	5.0	4.3	4.0	4.3	4.3	96.3	106.7	95.7
LSD VALUE	1.0	1.7	1.1	1.6	1.3	1.7	7.8	6.0	4.1	1.0	2.5	1.8	1.2	1.3	17.9	11.3	20.5
C.V. (%)	10.3	13.4	8.8	10.6	10.5	10.1	3.5	3.4	1.5	9.9	17.7	17.6	12.5	12.3	7.3	4.0	7.4

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

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

TABLE 2B.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY) 1/
2000 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PENN A-4	6.7	7.0	7.0	8.3	6.7	8.3	8.0	6.7	6.3	7.0	6.7	8.7	7.3
BACKSPIN	6.7	7.3	7.7	8.0	6.0	7.0	6.7	6.3	4.7	6.0	6.0	6.7	6.6
PENN A-1	5.3	6.0	6.0	6.7	6.3	7.3	6.3	6.0	6.3	6.0	6.0	7.0	6.3
SR 1119	6.3	7.5	7.0	7.3	6.7	7.3	6.7	5.7	4.7	6.0	5.3	5.3	6.3
CENTURY	6.0	7.5	7.5	6.3	5.7	6.3	6.0	6.7	4.7	6.0	6.0	6.7	6.2
GRAND PRIX (LCB-103)	6.7	7.0	7.0	9.0	5.3	7.0	6.0	5.7	4.0	5.7	5.3	6.7	6.2
L-93	6.0	6.3	6.3	7.7	5.3	6.7	6.0	6.3	5.7	6.0	6.0	6.3	6.2
SR 1020	6.3	6.7	5.7	7.0	5.0	5.3	6.0	7.0	6.0	6.0	7.0	6.7	6.2
PROVIDENCE	6.0	6.7	7.3	7.7	4.7	5.7	5.7	6.0	5.3	5.7	6.0	6.3	6.1
PENN G-1	6.0	7.0	7.0	8.0	5.3	6.7	5.3	5.3	4.7	5.0	5.3	6.3	6.0
IMPERIAL	4.7	6.0	6.7	7.7	5.3	6.7	6.0	6.0	4.3	6.0	5.3	6.3	5.9
TRUELINE	6.7	6.7	6.7	8.0	5.0	5.7	6.0	5.0	4.0	5.3	5.0	6.3	5.9
CRENSHAW	5.3	6.3	5.7	7.0	5.0	7.0	6.5	6.0	5.0	5.7	5.7	5.0	5.8
VIPER	5.7	6.0	7.0	7.7	4.3	6.0	5.7	5.3	5.3	5.3	5.7	5.7	5.8
PENN G-6	5.3	7.0	6.5	7.0	5.7	6.3	5.7	5.0	5.0	5.0	4.7	6.7	5.7
CATO	5.7	6.3	5.7	7.3	4.7	6.3	5.7	5.3	4.3	5.0	5.0	5.7	5.6
PUTTER	5.0	6.7	6.7	6.7	4.3	5.3	4.7	5.3	5.7	4.7	5.3	6.7	5.6
PENNCROSS	6.3	7.0	7.0	6.7	2.7	4.7	4.7	4.7	3.7	4.7	4.3	6.7	5.3
LSD VALUE	2.8	-	3.1	2.8	2.3	1.6	2.7	-	3.8	3.1	3.7	1.8	2.0
C.V. (%)	16.9	19.1	15.8	13.8	20.9	13.4	17.9	21.1	26.6	18.8	21.7	13.9	11.9

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

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

TABLE 3A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT BURLINGAME, CA (CRYSTAL SPRINGS GOLF COURSE)

ESTABLISHMENT		FERTILIZATION			HERBICIDES				
Seeding date	25-Sep-97	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)		
Problems during	None	10-Jan	Floratine NOW 12-0-12	2 fl. oz.	20-Jul	Triplet	0.66 fl.oz./M		
FACTORS OF PLAY		13-Jan	Milorganite 6-2-0	8.0		/2,4-D, MCP, P, Dicamba			
		3/21, 4/7	Seasource 16-4-8	5.5					
		1-May	Milorganite 6-2-0	7.5					
		31-May	Scotts 29-2-3	3.2 fl. oz.					
Date opened for play	open all year	22-Jun	Milorganite 6-2-0	9.7	INSECTICIDES				
Date closed for play		22-Aug	Milorganite 6-2-0	9.5					
Type of spikes allowed	Softspikes encouraged	9/1, 9/15	Floratine NOW 6-12-3	1.9 fl. oz.					
Uses of green	putting only (80,000 rounds/year)	27-Sep	Nutralene 40-0-0	3.5					
MOWING		25-Oct	Milorganite 6-2-0	9.0	Date(s)	Product	Rate (oz./M)		
		31-Oct	Floratine NOW 6-12-3	2.6 fl. oz.	None				
		12/6, 12/27	Floratine NOW 12-0-12	2.6 fl. oz.					
		Initial height	5/32"	OTHER PRODUCTS					
Current height	5/32"								
Frequency	3 times/week								
Type of mower	walking								
Rollers used	None	FUNGICIDES			Date(s)	Product	Rate (oz./M)		
Groomers used	None	Date(s)	Product	Rate (oz./M)	None				
CULTIVATION		15-Feb	Cleary's 3336G /Tiophanate Methyl	3 lbs./M	NOTES/COMMENTS				
		11-May	Cavalier 2G /Tiophanate Methyl	3 lbs./M					
		Aerification - dates	1/7, 3/21, 8/4 - 1/4" hollow tines.	5/31, 7/20				Heritage/Azoxystrobin	0.4
		Aerification - type	6/14, 6/21, 6/28, 7/5, 7/27, 10/25, 12/5 - Toro Spiker	29-Aug				Scotts Systemic Fungicide /Tiophanate Methyl	2 lbs./M
Verticutting	None	15-Sep	Heritage/Azoxystrobin	0.4					
Dates of topdressing	4/20, 9/7, 10/13 - Sand	31-Oct	Chipco 26019/Iprodione	3					
Other cultural practices	None	21-Dec	Cleary's 3336G /Tiophanate Methyl	3 lbs./M					

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 3B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT BURLINGAME, CA (CRYSTAL SPRINGS G.C.) 1/
2000 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
TURFGRASS STIMPMETER READINGS MEASURED IN INCHES

NAME	GENETIC COLOR	LEAF TEXTURE	DENSITY FALL	PERCENT		STIMPMETER READINGS						QUALITY RATINGS						MEAN	
				POA ANNUA	MAY	OCTOBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		DEC
L-93	8.0	8.3	8.7	2.0	97.3	116.0	7.0	7.0	8.3	7.3	6.7	6.3	7.7	7.7	7.3	8.7	8.7	8.0	7.6
CRENSHAW	7.7	8.0	9.0	1.0	98.7	126.3	7.3	7.0	8.0	7.7	7.0	6.7	7.7	6.7	6.7	8.0	8.7	7.3	7.4
PENN A-4	6.7	7.7	8.0	2.0	108.3	129.7	6.0	6.7	7.7	7.0	8.0	6.7	7.7	7.7	6.7	7.3	8.7	8.3	7.4
PENN G-6	7.3	7.7	8.7	1.0	107.3	123.0	7.3	7.0	7.7	7.3	6.7	6.7	7.7	6.3	7.3	8.0	8.7	7.7	7.4
IMPERIAL	7.3	8.0	8.7	1.7	89.3	124.3	7.3	7.0	7.7	7.0	6.7	6.3	7.3	7.0	6.3	7.7	8.3	7.7	7.2
PENN A-1	6.7	8.0	8.0	1.0	102.7	123.7	7.0	7.0	8.0	7.3	6.7	6.3	7.3	7.0	7.3	6.7	8.7	7.3	7.2
SR 1119	7.7	8.0	8.3	3.3	97.3	128.0	6.3	6.7	7.0	7.3	7.0	6.3	7.7	7.0	7.3	8.0	8.7	7.3	7.2
BACKSPIN	8.0	8.3	9.0	1.0	98.0	121.3	6.7	7.0	7.7	7.0	6.3	6.3	7.0	6.3	7.3	7.3	8.3	7.7	7.1
CENTURY	7.3	8.7	8.3	1.0	99.3	121.3	6.3	7.0	8.0	6.3	6.7	6.7	7.3	8.0	7.0	7.3	7.7	7.3	7.1
PENN G-1	7.3	8.3	8.7	2.3	94.7	118.3	6.0	6.7	7.7	6.7	6.7	7.0	7.3	7.3	6.7	7.0	8.3	8.3	7.1
GRAND PRIX (LCB-103)	7.3	7.7	8.0	1.7	102.0	125.7	6.7	7.0	7.7	7.0	6.3	5.7	7.0	7.0	6.3	7.3	8.3	7.7	7.0
PROVIDENCE	7.3	7.7	8.7	2.7	99.3	125.0	6.7	6.7	7.0	7.3	7.3	6.7	7.0	5.7	6.0	7.7	8.3	7.7	7.0
SR 1020	6.0	7.7	7.7	2.3	103.3	124.7	6.3	7.3	7.7	6.7	7.0	7.0	7.0	6.0	5.3	6.3	7.7	7.3	6.8
VIPER	6.3	7.3	7.7	1.3	91.3	124.7	6.3	6.7	7.0	6.7	7.0	6.3	5.7	6.3	5.3	6.7	8.3	7.7	6.7
CATO	6.7	7.0	7.0	3.0	105.3	126.0	6.0	6.3	6.3	6.7	5.3	6.0	6.7	5.3	7.0	7.0	7.7	6.7	6.4
PUTTER	6.0	7.0	7.0	1.7	102.0	123.3	6.7	7.0	8.0	5.3	6.0	6.3	6.7	6.3	4.7	6.0	7.7	6.7	6.4
TRUELINE	6.7	7.7	7.7	3.3	100.0	127.7	6.3	6.3	6.7	6.3	5.3	5.7	6.7	6.7	5.0	7.0	8.3	7.0	6.4
PENNCROSS	5.7	6.3	6.3	1.7	111.7	131.7	6.0	5.3	5.3	6.0	4.7	4.7	5.0	7.3	6.0	5.7	7.3	6.3	5.8
LSD VALUE	1.9	1.7	1.7	3.0	20.0	13.4	1.4	2.0	1.2	2.7	2.3	1.8	1.3	1.5	1.6	2.1	1.8	1.8	0.7
C.V. (%)	12.5	9.5	10.5	61.8	8.0	4.3	9.3	10.6	9.3	13.8	15.4	12.0	10.2	11.5	13.6	13.0	8.3	10.0	5.8

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

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

TABLE 4A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT MURRIETA, CA (The SCGA MEMBERS' CLUB)

ESTABLISHMENT		FUNGICIDES			INSECTICIDES		
Seeding date	Sept. 1997	Date(s)	Product	Rate (oz./M)	Date(s)	Product	Rate (oz./M)
Problems during	None	19-Jan	Daconil WS	2	11-Jul	Merit (75 WSP)	0.19
		2-Jun	Subdue (F)	2	14-Aug	Tempo 20 WP	5 grams/1000
FACTORS OF PLAY		27-Jul	Daconil WS	2			
		3-Aug	Alliette	4			
Date opened for play		3-Aug	Fore (WP)	8			
Date closed for play		14-Aug	Subdue Maxx	1	HERBICIDES		
Type of spikes allowed	Softspikes only	14-Aug	Fore (WP)	8			
Uses of green	putting, chipping, target. Heavy use PPG.	20-Nov	26 Chipco GT Flo.	5	Date(s)	Product	Rate (oz./M)
					28-Jan	Betasan	4
MOWING							
Initial height	0.125"				OTHER PRODUCTS		
Current height	0.125"						
Frequency	7 days/week				Date(s)	Product	Rate (oz./M)
Type of mower	Triplex - GKV						
Rollers used	Groomers used						
Groomers used	approximate 4 days/week. Rollers used 1-2 times per month.						
CULTIVATION							
					NOTES/COMMENTS		
Aerification - dates	3/14, 10/10				Control of "Poa annua" continues to be our biggest problem. Some bentgrass varieties are very resistant to "Poa annua" in comparison to other varieties. Site visits from other Club Officials and Superintendents are frequent.		
Aerification - type	5/8" hollow tine						
Verticutting	2-3 times per month depending upon thatch						
Dates of topdressing	Heavy topdressing w/USGA spec. sand on 3/14, 10/10, following aerification. Light topdressing w/#30 silica sand monthly except Jan. and Feb.						
Other cultural practices	Heavy brushing in Mar., Oct. Rolled for special tournament events which is 1-2 times/month. Flushed with 6" of irrigation water once every 3 weeks from June-Oct. to lower High E.C. (100% reclaimed irrigation use in 2000)						

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 4A. (CONT'D) 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

FERTILIZATION

Date(s)	Product Name	Product Analysis	Rate (lbs./M)		
			N	P	K
5-Jan	Turf Partners	7-0-0	0.02		
5-Jan	Turf Partners	1-0-23			0.07
5-Jan	Turf Partners	7-32-6	0.02	0.1	0.02
5-Jan	Crown Tech.	FeSO4			
14-Jan	Nutriculture	20-20-20	0.08	0.08	0.08
14-Jan	Turf Partners	1-0-23			0.07
14-Jan	Turf Partners	7-0-0	0.02		
14-Jan	Crown Tech.	FeSO4			
14-Jan	Turf Partners	7-32-6	0.02	0.1	0.02
24-Jan	Turf Partners	1-0-23			0.07
24-Jan	Turf Partners	Eco-Mag			
24-Jan	Turf Partners	7-32-6	0.02	0.1	0.02
24-Jan	Turf Partners	7-0-0	0.02		
9-Feb	Best	10-4-16	0.4	0.16	1.62
22-Feb	True Green	34-0-0	0.04		
22-Feb	Turf Partners	7-0-0	0.02		
22-Feb	Turf Partners	Eco-Mag			
22-Feb	Crown Tech.	FeSO4			
1-Mar	Nutriculture	28-8-18	0.08	0.02	0.05
1-Mar	Turf Partners	1-0-23			0.07
1-Mar	Turf Partners	1-0-0 (8% Ca)			
1-Mar	Turf Partners	7-32-6	0.02	0.1	0.02
1-Mar	Turf Partners	Eco-Mag			
1-Mar	Crown Tech.	FeSO4			
2-Mar	Best	10-4-16	0.62	0.25	0.99
8-Mar	Turf Partners	1-0-0 (8% Ca)			
8-Mar	Turf Partners	1-0-23			0.07
8-Mar	Turf Partners	7-32-6	0.02	0.1	0.02
8-Mar	Turf Partners	7-0-0	0.02		
17-Mar	Nutriculture	20-20-20	0.06	0.06	0.06
17-Mar	Nutriculture	34-0-0	0.04		
17-Mar	Turf Partners	Eco-Mag			

FERTILIZATION

Date(s)	Product Name	Product Analysis	Rate (lbs./M)		
			N	P	K
17-Mar	Crown Tech.	FeSO4			
27-Mar	Nutriculture	28-8-18	0.08	0.02	0.05
27-Mar	Turf Partners	1-0-23			0.07
27-Mar	Turf Partners	7-32-6	0.02	0.1	0.02
27-Mar	Crown Tech.	FeSO4			
2-Apr	Turf Partners	Gypsum			
3-Apr	Turf Partners	34-0-0	0.01		
3-Apr	Turf Partners	1-0-0 (8% Ca)			
3-Apr	Turf Partners	1-0-23			0.07
3-Apr	Nutriculture	28-8-18	0.08	0.02	0.05
3-Apr	Nutriculture	24-0-0	0.07		
14-Apr	Turf Partners	34-0-0	0.1		
14-Apr		0-0-34			0.09
18-Apr	Best	18-3-18 (Polyon)	0.5	0.08	0.5
23-Apr	Turf Partners	0-0-34			0.2
23-Apr	Nutriculture	28-8-18	0.08	0.02	0.05
23-Apr	Turf Partners	Eco-Mag			
23-Apr	Crown Tech.	FeSO4			
26-Apr	Nutriculture	28-8-18	0.08	0.02	0.05
26-Apr	Turf Partners	1-0-23			0.07
26-Apr	Turf Partners	Eco-Mag			
26-Apr	promot	Promot			
26-Apr	Crown Tech.	FeSO4			
1-May	Turf Partners	34-0-0	0.07		
1-May	Crown Tech.	FeSO4			
7-May	Best	18-3-18 (Polyon)	0.5	0.08	0.5
12-May	Nutriculture	28-8-18	0.08	0.02	0.05
12-May	Crown Tech.	FeSO4			
12-May	Turf Partners	1-0-23			0.04
12-May	Turf Partners	Eco-Mag			
23-May	Nutriculture	20-20-20	0.06	0.06	0.06
23-May	Turf Partners	1-0-23			0.04

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 4A. (CONT'D) 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

FERTILIZATION

Date(s)	Product Name	Product Analysis	Rate (lbs./M)		
			N	P	K
23-May	Crown Tech.	FeSO4			
31-May	Nutriculture	28-8-18	0.08	0.02	0.05
31-May	Nutriculture	24-0-0	0.07		
14-Jun	Nutriculture	34-0-0	0.07		
14-Jun	Turf Partners	1-0-23			0.14
14-Jun	Turf Partners	8% chelated Fe			
19-Jun	Turf Partners	0-0-34			0.07
19-Jun	Nutriculture	24-0-0	0.07		
24-Jun	Pursell	0-0-46			1.1
10-Jul	Turf Partners	0-0-34			0.07
10-Jul	Turf Partners	7-0-0	0.1		
16-Jul	Turf Partners	Gypsum			
27-Jul	Pac. Ag. & Turf	0-0-25			0.08
27-Jul	Nutriculture	24-0-0	0.1		
8-Aug	Pac. Ag. & Turf	0-0-25			0.1
8-Aug	Nutriculture	24-0-0	0.1		
17-Aug	Turf Partners	Gypsum			
19-Aug	Turf Partners	0-0-34			0.07
19-Aug	Nutriculture	28-8-18	0.08	0.02	0.05
19-Aug	Sequestar	13% Fe			
5-Sep	Turf Partners	0-0-34			0.07
5-Sep	K-Power	13.75-0-46	0.04		0.13
5-Sep	Sequestar	13% Fe			
11-Sep	Turf Partners	1-0-0-8Ca			
11-Sep	Turf Partners	1-0-23			0.07
11-Sep	Nutriculture	34-0-0	0.1		
19-Sep	Best	10-4-16	0.62	0.25	0.99

FERTILIZATION

Date(s)	Product Name	Product Analysis	Rate (lbs./M)		
			N	P	K
1-Oct	Turf Partners	Gypsum			
4-Oct	Best	10-4-16	0.26	0.11	0.42
25-Oct	Turf Partners	0-0-34			0.1
25-Oct	Nutriculture	28-8-18	0.08	0.02	0.05
12-Nov	K-Power	34-0-0	0.1		
12-Nov	Turf Partners	1-0-23			0.07
12-Nov	Crown Tech.	FeSO4			
2-Nov	Turf Partners	Gypsum			
15-Nov	Turf Partners	Eco-Mag			
15-Nov	Turf Partners	1-0-23			0.14
15-Nov	K-Power	13.75-0-46	0.04		0.13
15-Nov	Nutriculture	20-20-20	0.06	0.06	0.06
15-Nov	Crown Tech.	FeSO4			
27-Nov	Turf Partners	0-0-34			0.07
27-Nov	Nutriculture	28-8-18	0.08	0.02	0.05
3-Dec	Lebenon S.G.	20-0-20	0.5		0.5
7-Dec	K-Power	13.75-0-46	0.04		0.13
7-Dec	Turf Partners	34-0-0			0.07
7-Dec	Turf Partners	1-0-0-8Ca			
16-Dec	Best	10-4-16	0.4	0.16	1.62
22-Dec	Nutriculture	28-8-18	0.08	0.02	0.05
22-Dec	Turf Partners	34-0-0			0.07
22-Dec	Crown Tech.	FeSO4			
27-Dec	Turf Partners	34-0-0			0.1
27-Dec	Nutriculture	20-20-20	0.1	0.1	0.1
		Total	6.03	1.89	11.59

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT MURRIETA, CA (SCGA MEMBERS CLUB) 1/
2000 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
TURFGRASS STIMPMETER READINGS MEASURED IN INCHES

NAME	GENETIC COLOR	LEAF TEXTIURE	PERCENT	PERCENT	PERCENT	STIMPMETER READINGS		QUALITY RATINGS							MEAN
			POA ANNUA MAR.	POA ANNUA OCT.	POA ANNUA DEC.	JULY	DECEMBER	JAN	FEB	JUN	JUL	AUG	OCT	DEC	
PENN A-4	7.7	8.0	8.3	13.3	13.3	129.7	150.7	7.7	8.3	8.0	8.0	8.0	8.0	7.3	7.9
PENN A-1	7.3	8.0	23.3	31.7	26.7	122.0	159.7	7.7	8.0	7.0	8.0	8.0	7.0	7.3	7.6
PENN G-1	7.7	7.7	20.0	25.0	26.7	133.0	159.7	7.3	8.0	7.7	8.0	8.0	7.0	7.0	7.6
CENTURY	7.7	8.0	25.0	33.3	28.3	127.7	163.7	7.0	7.7	7.0	7.7	8.0	7.3	7.0	7.4
BACKSPIN	7.3	7.7	30.0	36.7	41.7	130.3	154.7	7.0	7.3	7.0	8.0	8.0	7.0	7.0	7.3
GRAND PRIX (LCB-103)	7.7	8.0	28.3	35.0	28.3	124.0	156.3	7.0	7.3	7.0	7.7	8.0	7.0	7.0	7.3
PENN G-6	8.0	8.0	16.7	21.7	21.7	141.7	153.0	7.0	7.3	7.3	7.7	8.0	7.0	7.0	7.3
CRENSHAW	7.3	7.3	50.0	58.3	46.7	133.3	159.3	7.0	7.0	7.0	7.7	7.7	7.0	7.0	7.2
L-93	7.3	7.3	45.0	55.0	46.7	143.7	156.0	7.0	7.0	7.0	7.3	8.0	7.0	7.0	7.2
CATO	7.3	7.0	53.3	58.3	53.3	145.0	160.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.1
IMPERIAL	7.7	7.3	36.7	46.7	43.3	138.3	158.3	7.0	7.0	7.0	7.3	7.7	7.0	7.0	7.1
PROVIDENCE	7.0	7.0	38.3	46.7	50.0	123.7	160.3	7.0	7.0	7.0	7.3	7.7	7.0	7.0	7.1
PUTTER	7.3	7.3	50.0	58.3	66.7	128.0	162.0	6.7	7.0	7.0	7.0	8.0	7.0	7.0	7.1
TRUELINE	7.3	7.0	36.7	41.7	53.3	134.7	162.7	7.0	7.0	6.7	7.3	8.0	7.0	7.0	7.1
SR 1020	7.0	7.0	46.7	51.7	56.7	135.0	161.0	7.0	7.0	6.7	7.0	7.3	6.7	7.0	7.0
SR 1119	7.3	7.7	50.0	60.0	51.7	125.0	158.7	6.7	7.0	7.0	7.0	7.3	7.0	7.0	7.0
VIPER	7.0	7.0	63.3	70.0	75.0	138.0	160.3	7.0	7.0	7.0	7.0	7.3	7.0	7.0	7.0
PENNCROSS	7.0	7.0	70.0	75.0	75.0	138.7	158.0	6.0	7.0	6.0	7.0	7.0	6.0	6.7	6.5
LSD VALUE	1.3	0.6	15.7	14.2	13.4	33.1	-	0.5	0.5	0.5	0.6	0.6	0.3	0.7	0.2
C.V. (%)	6.2	4.7	25.8	20.1	19.4	8.8	4.2	4.2	4.2	4.0	4.6	4.0	2.7	3.4	1.6

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 5A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT LAKEWOOD, CO (FOX HOLLOW AT LAKEWOOD)

ESTABLISHMENT	FERTILIZATION			FERTILIZATION			
Seeding date	4-Sep-97	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (lbs./M)
Problems during	None						
FACTORS OF PLAY		7-Mar	Scott's Contec 17-3-17	0.51 lb.N	Sept. 29	Perk Up, Potassium Nitrate, Tiger Turf,	0.36 lb.N,
		10-Apr	Scott's Pro-Turf 15-0-29	0.5 lb. N		Equalize, Astron,	0.04 lb.P,
		20-Apr	Ammonium Sulfate 0.38lb, Turf Starter 7.67oz, Astron 1oz, Renaissance 1.5oz, Calpphlex 1.18oz , Phlexmag 0.13oz, Primer 3oz, Heritage 0.4oz			Renaissance, Calphlex, Maxi-Plex,	0.93 lb.K, and Ca,
Date opened for play						Ferromec, Heritage	Mg, S, Fe
Date closed for play		8-May	Nature Safe (8-3-5) 10lbs, Nitroform (38-0-0) 2.5lbs, Gypsum (CaS) 5.0lbs, Poly-K (0-0-50) 1.0 lb, Hy-Mag (17%Mg& 17%Ca) 5.5lbs, MAP (11-52-0) 2.0lbs		Total: 7.329 lbs. N, 2.914 lbs. P, and 8.125 lbs. K		
Type of spikes allowed		16-May	Primer 3oz, MaxiPlex 3oz, Roots Fe 8% 1oz.		FUNGICIDES		
		2-Jun	Scott's Pro-Turf 15-0-29	0.25 lb. N			
		19-Jun	Tourney Pride 7.01oz, Turf Starter 7.01oz, Astron 1oz, Renaissance 1.5oz, Calpphlex 1.18oz , Phlexman 0.13oz, Phlexmag 0.77oz, Primer 3oz, Roots Fe 8% 1oz, Heritage 0.4oz, Dye 0.50oz.		Date(s)	Product	Rate (oz./M)
Uses of green	putting, chipping,	5-Jul	Nature Safe (8-3-5)	0.4 lb. N	7-Jun	Heritage	0.4 lbs./M
		24-Jul	Potassium Nitrate 0.42lbs, Turf Starter 0.33oz, Astron 1oz, Renaissance 1.5oz, Calpphlex 1.18oz , Phlexman 0.13oz, Phlexmag 0.77oz, Primer 1.5oz, Roots Fe 8% 1oz, Heritage 0.4oz, Roots Stand up 3.0oz, Dye 0.50oz.		29-Sep	Heritage	0.4 lbs./M
					HERBICIDES		
MOWING		7-Aug	Tourney Pride 6.0oz, UHS "Feature" 3.05oz, Potassium Nitrate 42lbs, Astron 1oz, Renaissance 1.5oz, Calpphlex 1.18oz , Phlexman 0.13oz, Phlexmag 0.77oz, Dye 0.50oz.		Date(s)	Product	Rate (oz./M)
					None		
		28-Aug	Scott's Pro-Turf 15-0-29	0.3 lb. N	INSECTICIDES		
Rollers used	Triplex	5-Sep	Nature Safe (8-3-5) 2.75lbs, Milogranite (6-2-0) 5.0 lbs, Nitroform (38-0-0) 2.5lbs, Gypsum (CaS) 5.0 lbs, Poly-K (0-0-50) 1.0 lb, Hy-Mag (17%Mg& 17%Ca) 5.0 lbs, MAP (11-52-0) 2.0 lbs		Date(s)	Product	Rate (oz./M)
Groomers used	Toro 1000				None		
CULTIVATION							
Aerfication - dates	Spring and Fall	29-Sep	Tourney Pride 4.8oz, Ammonium Sulfate 0.25lb, Potassium Nitrate 0.25lbs, UHS "Feature" 1.5oz , Astron 0.9oz, Renaissance 1.5oz, Calpphlex 1oz , Phlexman 0.17oz, Phlexmag 0.32oz, MaxiPlex 1.25oz, Dye 0.5oz.		OTHER PRODUCTS		
Aerfication - type	5/8" hollow tine						
Verticutting	2-3x weekly						
Dates of topdressing	light topdressing biweekly	23-Oct	Scott's Contec 17-3-17	0.26 lb.N	Date(s)	Product	Rate (oz./M)
Other cultural practices					None		

NOTES/COMMENTS

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
 1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
 AT LAKEWOOD, CO (FOX HOLLOW AT LAKEWOOD) 1/
 2000 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SUMMER DENSITY	QUALITY RATINGS							
					APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PENN A-1	6.3	6.0	8.7	8.7	7.3	8.0	9.0	9.0	9.0	8.7	7.3	8.3
CENTURY	6.0	6.7	8.0	8.0	7.3	8.0	8.3	8.7	8.7	8.0	7.7	8.1
PENN A-4	7.0	6.0	9.0	8.7	7.7	8.0	8.7	8.7	8.7	8.0	7.3	8.1
L-93	7.7	6.7	8.0	8.0	7.3	8.0	8.0	8.7	8.3	8.0	7.3	8.0
IMPERIAL	6.3	6.3	8.3	8.0	7.3	7.7	8.3	8.0	8.0	8.0	7.0	7.8
PENN G-6	7.0	6.0	8.3	8.0	7.0	7.0	7.7	8.3	8.7	8.0	7.0	7.7
PENN G-1	7.0	6.0	8.0	8.0	7.0	7.3	7.7	8.0	8.3	8.0	7.0	7.6
BACKSPIN	6.0	6.3	7.7	8.0	7.0	8.0	8.0	7.7	7.3	7.0	7.0	7.4
CATO	7.0	5.7	7.0	7.3	7.0	7.3	7.7	7.3	8.0	7.3	7.0	7.4
CRENSHAW	7.0	5.3	7.7	7.3	7.0	7.3	7.7	8.0	8.0	7.0	7.0	7.4
SR 1119	7.0	6.7	7.7	8.0	7.0	7.0	7.3	8.0	8.0	7.3	7.0	7.4
GRAND PRIX (LCB-103)	6.0	5.3	8.0	7.7	7.0	7.7	7.7	7.3	7.3	7.0	7.0	7.3
PROVIDENCE	5.7	7.0	7.3	7.0	7.0	7.3	7.7	7.3	7.0	7.0	7.7	7.3
VIPER	8.0	5.3	7.3	7.7	7.0	7.0	7.0	7.3	7.3	7.0	7.0	7.1
SR 1020	6.3	5.0	7.3	7.0	6.3	7.0	7.0	8.0	7.7	6.7	6.0	7.0
TRUELINE	6.0	5.7	6.0	7.0	7.0	7.0	7.0	7.0	6.3	6.0	6.0	6.6
PUTTER	5.3	5.7	5.0	5.3	5.7	5.3	5.3	4.7	5.0	5.0	5.0	5.1
PENNCROSS	5.0	6.0	4.3	5.0	5.0	5.0	5.0	4.7	4.7	5.0	4.7	4.9
LSD VALUE	0.5	0.8	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.4	0.5	0.2
C.V. (%)	5.1	7.7	5.7	4.9	5.3	5.1	6.0	5.9	6.0	3.9	5.1	2.3

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. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT GLENVIEW, IL (NORTH SHORE COUNTRY CLUB)

ESTABLISHMENT		OTHER PRODUCTS			INSECTICIDES		
		Date(s)	Product	Rate (oz./M)	Date(s)	Product	Rate (oz./M)
Seeding date	28-Aug-97						
Problems during	slow to fill, overseeded at 1/2 rate in mid-Sept.	26-Apr	Plant Growth Activator	0.31 lb./M	19-Jul	Battle	1.25
		26-Apr	Maxicrop Soluale Seaweed Powder	1			
		26-Apr	Maxicrop Liquid	1.5			
		26-Apr	Dethatch	0.16 lb./M			
FACTORS OF PLAY		26-Apr	Fresh Pak	24.02	FUNGICIDES		
		16-May	Super Shot 40	4			
Date opened for play		16-May	Root Grow	16.01	Date(s)	Product	Rate (oz./M)
Date closed for play		16-May	Nutribac Growth Medium	16.01			
Type of spikes allowed	softspikes	16-May	Pseudomodas sp.	16.01	16-May	Nature's Best	10
Uses of green	putting, chipping, target	16-May	Plant helper	0.30 lb./M	28-Jun	Daconil	1.69 lbs/M
		18-May	Spot-Less	32.03	19-Jul	Daconil	2.5
		23-May	Turfshield TM	4.38 lb./M	9-Aug	Daconil	2.92
MOWING		3-Jun	Spot-Less	32.03	18-Sep	Daconil	2.92
		20-Jun	Spot-Less	36.57	2-Nov	Nature's Best	4
Initial height		20-Jun	Plant helper	0.40 lb./M			
Current height		20-Jun	Super Shot 40	0.49			
Frequency	7 days/week	5-Jul	Turfshield TM	3 lb./M			
Type of mower	walking	24-Jul	LescoFlo	5.5			
Rollers used	None	28-Jul	Spot-Less	16.01	HERBICIDES		
Groomers used		28-Jul	SoilCond	0.23 lb./M			
		28-Jul	B-1b Bacillus inoculant	0.12 lb./M	Date(s)	Product	Rate (oz./M)
CULTIVATION		28-Jul	Root Grow	16.01			
		7-Aug	Spot-Less	16.01	None		
Aerification - dates	7/6, 7/25, 9/15	7-Aug	B-1b Bacillus inoculant	0.12 lb./M			
Aerification - type	Hydroject water injection	7-Aug	Plant helper	0.17			
Verticutting		21-Aug	Super Shot 40	487.93 ml/M			
		21-Aug	Plant helper	0.75 lb./M			
Dates of topdressing	4/24, 5/23, 7/5, 7/20, 8/15, 8/28, 9/4, 9/15, 10/17	15-Sep	Plant helper	0.25 lb./M	NOTES/COMMENTS		
		15-Sep	Super Shot 40	4			
		15-Sep	Earthworks N-hance	1.25			
		15-Sep	Earthworks Base One	1.25			
Other cultural practices	Brushed only for sand topdressing	15-Sep	Earthworks Kick	1.25			
		15-Sep	Earthworks Potent Sea/plus	1.25			
		15-Sep	Spot-Less	32.03			
		15-Sep	Root Grow	16.01			
		15-Sep	Fresh Pak	24.02			
		2-Nov	Earthworks N-hance	2.5			
		2-Nov	Earthworks Base One	2.5			
		2-Nov	Earthworks Kick	2.5			
		2-Nov	Earthworks Potent Sea/plus	2.5			
		2-Nov	Super Shot 40	3			

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 6A. (CONT'D)

2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT GLENVIEW, IL (NORTH SHORE COUNTRY CLUB)

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
7-Apr	Perk (0-0-0)	19 lbs./7993 sq ft
7-Apr	White Gold (0-0-25)	2.08 lbs. K
12-Apr	Nature Safe (8-3-5)	0.33 lb. N
26-Apr	Fresh Pak (1-0-0)	0.01 lb. N
26-Apr	Nature Safe (8-3-5)	0.37 lb. N
3-May	Nutraculture (10-20-30)	0.04 lb. K
3-May	Agriplex (0-4-4)	0.01 lb. P/app.
3-May	Macrosorb Foliar (2-0-0-B,Mn,Zn)	0.01 lb. N/app.
3-May	Quelant Ca (5-0-0)	0.03 lb. N/app.
3-May	Quelant K (1-0-30)	0.01 lb. K
3-May	3-D (0-0-14)	0.02 lb. K/app.
3-May	Biogain WSP (0-0-12)	0.02 lb. K/app.
3-May	Sprint 330 (0-0-0)	0.18 lb./7993 sq ft
5-May	Soil Synergy (10-2-8)	0.44 lb. N
16-May	Plant Helper (0.6-0.9-0.2)	0.01 lb. N/app.
16-May	Nature's Best (0-0-0-Fe,Cu,B,Mo)	6.25 lbs./7993 sq ft
18-May	Nutraculture (28-8-18)	0.20 lb. N
18-May	Biogain WSP (0-0-3)	0.02 lb. K
3-Jun	Nutrigrow PK (0-28-26)	0.04 lb. K
20-Jun	PanaSea Plus (0-3-2)	0.01 lb. K
20-Jun	Nutrigrow PK (0-28-26)	0.06 lb. K
20-Jun	Plant Helper (0.6-0.9-0.2)	1.41 lb./3500 sq ft
20-Jun	Microbial Stimulant (1-0-0)	0.03 lb. N
27-Jun	Nutrigrow PK (0-28-26)	0.21 lb. K
27-Jun	Lesco Chelated Fe+ (12-0-0)	0.04 lb. N
27-Jun	Quelant Ca (5-0-0)	0.03 lb. N
7-Jul	Nature Safe (8-3-5)	0.29 lb. N
13-Jul	Soil Synergy (10-2-8)	0.44 lb. N
19-Jul	Vtech Protamin (5-0-0)	0.03 lb. N/app.
19-Jul	Macrosorb Foliar (2-0-0)	0.01 lb. N/app.
19-Jul	Tuff Turf (1-0-14-Ca,Mg,Fe,Mn)	0.01 lb. K

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
24-Jul	Quelant Ca (5-0-0)	0.01 lb. N
24-Jul	Nutrigrow PK (0-28-26)	0.05 lb. K
24-Jul	Macrosorb Foliar (2-0-0)	0.01 lb. N/app.
24-Jul	PanaSea Plus (0-0-0)	0.45 lb./3500 sq ft
8-Aug	Plant Helper (0.6-0.9-0.2)	1.38 lbs./7993 sq ft
8-Aug	Agriplex (0-4-4)	0.01 lb. K/app.
9-Aug	Nutrigrow PK (0-28-26)	0.02 lb. K
9-Aug	Quelant Ca (5-0-0)	0.04 lb. N/app.
9-Aug	Tuff Turf (1-0-14)	0.01 lb. K
14-Aug	Quelant K (1-0-30)	0.02 lb. K
14-Aug	Sprint 330 (0-0-0)	
14-Aug	Nutrigrow PK (0-28-26)	0.01 lb. K
14-Aug	Sea Quential (7-0-1)	0.03 lb. N/app.
14-Aug	Iron Master (15-0-1)	
14-Aug	Quelant Ca (5-0-0)	0.5 lbs./7993 sq ft
14-Aug	Macrosorb Foliar (2-0-0)	0.01 lb. N/app.
21-Aug	Vtech Protamin (5-0-0)	0.01 lb. N
21-Aug	Nutrigrow PK (0-28-26)	0.06 lb. K
21-Aug	Nature Best (0-0-0)	6.25 lbs./7993 sq ft
21-Aug	Biogain WSP (0-0-12)	0.01 lb. K/app.
21-Aug	Microbial Stimulant (1-0-0)	0.01 lb. N
21-Aug	Plant Helper (0.6-0.9-0.2)	0.04 lb. N/app.
15-Sep	Biogain WSP (0-0-12)	0.01 lb. K
15-Sep	Biogain WSP (Fe) (0-0-3)	0.02 lb. K/app.
15-Sep	Plant Helper (0.6-0.9-0.2)	0.01 lb. N/app.
15-Sep	Vtech Protamin (5-0-0)	0.01 lb. N
15-Sep	Earthworks Base 1 (1-10-10-Cu,Zn,Mn)	0.01 lb. K
29-Sep	Lesco Greens Grade (18-4-18)	0.56 lb. N
20-Oct	Clesen's Professional (18-8-18)	0.68 lb. N
14-Nov	Soil Synergy (10-2-8)	0.63 lb. N

Total (lbs./M): 4.14 lbs. N, 0.80 lbs. P, and 5.32 lbs. K

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 6B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
 1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
 AT GLENVIEW, IL (NORTH SHORE COUNTRY CLUB) 1/
 2000 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS							
				APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PENN A-1	6.0	6.7	7.3	7.7	8.3	9.0	6.7	6.7	8.3	7.7	7.8
PENN G-6	6.0	7.0	7.7	7.0	8.0	9.0	6.7	6.7	8.0	7.7	7.6
PENN G-1	6.0	6.0	8.3	6.7	8.0	8.0	5.7	6.3	8.0	7.7	7.2
L-93	6.3	5.3	7.0	7.3	7.3	7.3	5.7	6.0	8.0	7.7	7.0
PENN A-4	6.3	7.0	8.0	6.7	8.0	8.7	5.3	5.7	7.0	7.7	7.0
BACKSPIN	6.3	6.3	6.7	7.3	8.0	7.7	5.0	4.7	7.0	7.3	6.7
PROVIDENCE	6.0	5.7	7.0	6.7	7.3	7.3	5.7	5.7	7.7	6.7	6.7
TRUELINE	6.0	5.3	6.7	6.3	7.0	7.0	5.7	6.3	7.7	6.7	6.7
GRAND PRIX (LCB-103)	5.7	6.3	6.7	7.0	7.3	8.0	4.7	6.0	6.7	6.7	6.6
SR 1119	6.0	6.0	7.3	7.0	7.0	7.3	5.0	6.3	7.0	6.3	6.6
PUTTER	6.0	6.0	6.7	7.3	7.0	7.0	5.7	5.7	6.0	6.7	6.5
IMPERIAL	6.3	6.0	8.0	7.0	7.7	8.0	4.0	5.3	6.0	7.0	6.4
SR 1020	6.0	5.0	7.0	6.3	7.7	7.7	4.7	5.7	6.3	6.7	6.4
VIPER	6.3	4.7	7.0	6.3	7.0	7.7	5.0	5.3	6.0	6.7	6.3
CATO	6.3	5.0	6.7	5.7	6.3	7.7	4.3	5.7	6.7	6.7	6.1
CENTURY	5.3	6.0	7.7	6.7	7.3	7.7	4.3	4.7	5.3	6.0	6.0
CRENSHAW	6.3	4.3	7.0	6.3	6.7	7.3	4.7	5.3	5.3	6.3	6.0
PENNCROSS	6.0	5.3	5.3	6.7	5.7	6.3	5.3	5.3	5.7	5.7	5.8
LSD VALUE	1.1	1.2	1.4	2.7	1.4	0.8	1.3	1.4	1.4	1.8	0.5
C.V. (%)	6.8	11.8	10.0	13.2	9.8	6.5	13.5	12.0	11.9	11.6	4.8

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 7A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT WEST LAFAYETTE, IN (PURDUE UNIVERSITY - KAMPEN GOLF COURSE)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Seeding date	3-Oct-97	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	None						
		3-Apr	Scott's (9-18-18)	1.0 lb. K	None		
		19-Apr	Scott's (17-3-17)	1.0 lb. N			
FACTORS OF PLAY							
		30-Jun	18-3-4 + Micro Gary's Green	0.1 lb. N			
		30-Jun	1-0-14 + Micro Tuff Turf	0.1 lb. K			
Date opened for play	Open all year around	5-Jul	18-3-4 + Micro Gary's Green	0.1 lb. N	INSECTICIDES		
Date closed for play	unless snow covered	5-Jul	1-0-14 + Micro Tuff Turf	0.1 lb. K			
Type of spikes allowed	softspikes	7-Jul	18-3-4 + Micro Gary's Green	0.1 lb. N	Date(s)	Product	Rate (oz./M)
Uses of green	putting	7-Jul	1-0-14 + Micro Tuff Turf	0.1 lb. K			
		13-Jul	18-3-4 + Micro Gary's Green	0.1 lb. N	13-May	Mach 2	1.5
MOWING		13-Jul	1-0-14 + Micro Tuff Turf	0.1 lb. K	7-Jun	Mach 2	1.5
		16-Aug	18-3-4 + Micro Gary's Green	0.1 lb. N	11-Jul	Dylox 80 sp	2
Initial height	7/16"	16-Aug	1-0-14 + Micro Tuff Turf	0.1 lb. K	22-Sep	Dylox 80 sp	2
Current height	5/32"	22-Aug	18-3-4 + Micro Gary's Green	0.1 lb. N			
Frequency	7 days/week	22-Aug	1-0-14 + Micro Tuff Turf	0.1 lb. K			
Type of mower	Triplex/Walking	14-Sep	Shaw's (17-3-17)	1.0 lb. N			
Rollers used	once a week - Jacobsen	4-Oct	Shaw's (17-3-17)	1.0 lb. N			
Groomers used	once a week - Jacobsen	2-Nov	Shaw's (17-3-17)	1.0 lb. N	OTHER PRODUCTS		
CULTIVATION					Date(s)	Product	Rate (oz./M)
		FUNGICIDES					
Aerification - dates							
Aerification - type		Date(s)	Product	Rate (oz./M)			
Verticutting	None						
		23-May	Chipco GT	4			
		23-May	Alliette Signature	4			
Dates of topdressing	Every other week, starting in May. Used sand only. Same as what the green was built with.	12-Jun	Daconil Ultrex	4			
		12-Jun	Alliette Signature	4			
		30-Jun	Heritage	0.2			
		30-Jun	Chipco GT	2	NOTES/COMMENTS		
		12-Jul	Daconil Ultrex	4	Located just east of the driving range and is used extensively.		
		12-Jul	Alliette Signature	4			
Other cultural practices	Drag in sand with Metal mat or a brush.	16-Aug	Daconil Ultrex	4			
		16-Aug	Alliette Signature	4			
		26-Oct	Daconil Weatherstick	4			

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT WEST LAFAYETTE, IN (PURDUE UNIVERSITY - KAMPEN G.C.) 1/
2000 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS								
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
FENN G-1	7.0	5.7	7.3	7.7	7.7	8.0	7.3	7.0	7.0	7.7	6.0	7.3
FENN A-4	7.3	5.7	7.7	7.3	7.3	7.3	7.3	7.0	7.0	8.0	6.0	7.2
FENN A-1	7.0	5.3	7.3	6.7	7.0	7.3	7.7	7.0	7.0	7.7	5.7	7.0
IMPERIAL	6.7	5.7	7.3	7.0	7.7	7.3	7.0	6.3	7.0	7.3	5.7	6.9
FENN G-6	7.3	5.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.7	5.3	6.8
CENTURY	6.0	5.3	7.7	6.3	7.0	7.0	7.3	6.7	6.7	7.0	5.3	6.7
GRAND PRIX (LCB-103)	6.3	5.0	7.3	6.7	7.3	7.3	6.7	6.7	6.3	7.0	5.3	6.7
L-93	7.7	3.7	6.3	6.7	7.0	7.3	6.7	6.0	6.7	7.7	5.3	6.7
CATO	6.3	4.7	6.7	7.0	6.7	6.7	6.3	6.0	7.0	7.0	5.3	6.5
SR 1020	7.0	5.0	6.7	6.7	6.7	7.0	6.7	6.3	6.7	7.0	5.3	6.5
SR 1119	8.0	3.7	7.0	6.7	7.0	7.0	6.7	6.0	6.7	7.0	5.3	6.5
PROVIDENCE	7.0	3.3	7.0	6.7	6.0	7.0	6.7	5.7	6.0	7.7	5.7	6.4
BACKSPIN	5.7	5.7	7.0	6.3	6.7	6.7	7.0	5.7	6.3	7.0	5.0	6.3
CRENSHAW	8.0	3.7	6.3	6.3	6.3	6.0	6.0	6.3	6.3	7.0	5.0	6.2
VIPER	7.3	3.7	6.7	6.3	6.0	6.7	6.3	5.3	6.0	7.0	5.3	6.1
TRUELINE	6.7	4.0	6.7	6.0	6.0	6.3	5.7	5.3	5.7	6.7	4.7	5.8
FUTTER	6.3	5.3	7.3	5.7	5.7	6.0	5.7	4.7	5.3	6.7	5.0	5.6
FENNCROSS	5.7	3.7	6.3	5.7	5.3	6.7	4.7	4.0	5.0	5.7	5.0	5.3
LSD VALUE	0.8	1.8	1.0	1.0	0.8	1.5	1.0	1.0	1.0	0.7	1.7	0.6
C.V. (%)	7.4	19.8	7.2	8.0	7.1	9.5	8.8	10.0	8.8	5.9	11.0	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 8A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT FLORENCE, KY (LASSING POINTE GOLF COURSE)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Seeding date	15-Sep-98	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during		12-Jan	0-0-45		5/15, 5/31, 6/19, 7/6, 7/27,	Acclaim	3
FACTORS OF PLAY		28-Mar	Milorganite				
Date opened for play	31-Mar-00	10-Apr	19-25-5 Starter				
Date closed for play		19-Apr	Scotts STEP				
Type of spikes allowed	softspikes	4/24, 10/17	19-3-19				
Uses of green	putting	28-Mar	Milorganite		INSECTICIDES		
Others	40,000 rounds	19-Jun	18/9/18 Fe Mn		Date(s)	Product	Rate (oz./M)
		24-Aug	Milorganite		3-May	Tempo	110 g./Acre
		24-Sep	18-9-18		5/31, 7/6, 7/24, 8/22,9/1, 10/30	Delta Guard	22 oz./Acre
		12-Nov	19-25-5				
		2-Dec	STEP/Milorganite				
MOWING		8-Mar	Milorganite	45 lbs./green			
Initial height		3-May	Mn/Mz	2.5 gal. (ea)			
Current height	5/32"	3-May	18-3-6 Scotts	2.5 gal. (ea)			
Frequency	7 days/week	5/15, 5/31	Liquid Fert.	2.5 gal./3 Acre			
Type of mower	Toro Greens Master 310C	19-Jun	Liquid Fert.	2.5 gal./6 Acre			
Rollers used	rolled - 5/12, 6/5, 6/9-	6-Jul	Mn	2.5 gal./6 Acre	OTHER PRODUCTS		
Groomers used	13, 10/29	24-Jul	Scotts Liquid Fert.	2.5 gal./6 Acre	Date(s)	Product	Rate (oz./M)
CULTIVATION		24-Jul	Scotts Mn/Mg	2.5 gal./6 Acre	3-May	Primo	5.5 oz./Acre
		22-Aug	Scotts Liquid Fert.	5 gal./Acre	5/15, 5/31, 6/19, 7/24, 9/1	Primo	3 oz./Acre
Aerification - dates	5/28, 10/23	2-Oct	Scotts Liquid Fert.	5 gal./6 Acre	22-Aug	Primo	3.5 oz./Acre
Aerification - type		30-Oct	Scotts Liquid Fert.	10 gal./6 Acre	6/6, 6/20	Cascade (wetting agent)	2.75 gal./Acre
Verticutting	5/3, 5/31, 10/3, 11/8				6/19, 7/6, 7/27	Sea Quencial	2.5 gal./Acre
Dates of topdressing	2/29, 6/24, 10/26, 11/16	FUNGICIDES					
Other cultural practices	rolled with Toro triplex rollers on 5/12, 6/5, 6/9-13, 10/29	Date(s)	Product	Rate (oz./Acre)			
		1/6, 8/22, 9/1	PMAS	22			
		3-May	Chipco GT 26	0.5 gal./Acre			
		5/15, 5/31, 8/2, 9/1	Chipco GT 26	1 gal./Acre			
		31-May	Bayleton	44			
		6/19, 9/1, 10/2, 10/30	Bayleton	22	NOTES/COMMENTS		
		6/19, 7/6,	Heritage	1 lbs./Acre			
		6-Jul	Banner Maxx	22			
		7/6, 10/2	Daconil	12 lbs./Acre			
		24-Jul	Daconil	11 lbs./Acre			
		30-Oct	Fore	8 lb./Acre			

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TABLE 8B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT FLORENCE, KY (LASSING POINTE GOLF COURSE) 1/
2000 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
TURFGRASS STIMPMETER READINGS MEASURED IN INCHES

NAME	GENETIC COLOR	LEAF TEXTIURE	DENSITY RATINGS			PERCENT PERCENT DOLLAR DOLIAR		STIMPMETER READINGS			QUALITY RATINGS								
			SPRING	SUMMER	FALL	SPOT JUNE	SPOT JULY	APRIL	AUGUST	OCTOBER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PENN A-4	8.0	8.3	7.7	9.0	8.7	5.0	1.7	121.2	120.5	129.5	7.0	8.0	8.7	9.0	8.0	8.7	7.3	8.0	8.1
PENN G-1	7.7	7.0	6.3	9.0	7.3	0.3	0.0	121.4	130.1	135.5	7.0	8.0	8.0	8.7	6.7	8.3	6.7	8.0	7.7
PENN G-6	7.7	8.3	6.3	8.0	7.7	4.0	0.7	118.1	118.9	124.2	6.7	8.0	7.0	8.0	7.3	8.0	7.3	7.0	7.4
PENN A-1	8.0	8.0	6.7	8.3	7.7	0.7	0.0	119.9	121.3	128.3	6.7	7.3	7.3	7.7	6.7	8.0	7.0	8.0	7.3
SR 1119	7.3	7.7	6.3	6.7	6.0	1.3	0.7	115.1	110.6	125.1	7.0	8.0	8.0	8.0	6.7	7.0	6.3	7.0	7.3
CENTURY	7.3	7.7	7.7	7.0	8.3	15.3	14.7	114.8	111.2	125.6	7.0	8.0	5.7	6.3	7.0	8.0	7.3	8.0	7.2
CRENSHAW	8.0	6.3	6.0	6.3	6.3	8.7	6.0	129.8	121.9	126.8	7.7	6.7	6.7	7.0	7.7	7.7	7.0	7.3	7.2
CATO	8.0	7.7	6.0	6.0	6.7	1.3	0.0	126.9	121.6	129.8	6.3	7.3	7.7	7.7	5.7	7.0	7.3	7.0	7.0
IMPERIAL	7.3	8.0	6.3	7.7	7.7	6.0	6.0	118.7	115.6	125.3	7.0	7.0	7.0	7.3	7.3	7.0	7.0	6.7	7.0
BACKSPIN	8.3	8.3	6.3	7.0	8.0	12.3	9.0	115.6	112.7	115.7	6.3	7.7	5.7	6.7	7.0	7.0	7.0	7.0	6.8
GRAND PRIX (LCB-103)	8.0	7.3	6.7	7.7	7.3	0.7	0.7	113.5	123.8	125.4	5.7	7.0	7.3	6.3	7.3	7.0	6.7	7.3	6.8
L-93	7.7	7.0	6.3	6.7	5.7	0.0	0.0	125.3	123.5	130.3	6.3	7.3	6.7	7.7	6.7	5.7	6.0	7.0	6.7
PROVIDENCE	7.3	7.7	5.0	6.3	5.3	0.7	0.0	124.6	122.3	125.3	7.0	7.3	7.0	7.7	5.0	6.7	5.7	6.7	6.6
SR 1020	7.0	7.0	6.3	5.3	7.0	4.3	2.3	127.8	130.7	133.4	6.0	7.0	7.0	6.3	6.3	7.3	6.7	6.0	6.6
PUTTER	6.3	6.7	6.0	7.0	6.3	1.3	0.3	118.0	114.4	122.7	6.3	6.7	7.0	7.0	5.7	5.3	6.7	6.0	6.3
TRUELINE	8.7	6.7	5.7	6.0	5.7	0.7	0.3	110.3	101.3	113.9	6.7	7.0	7.0	6.0	5.7	5.3	6.3	5.3	6.2
VIPER	8.0	7.0	4.7	5.3	5.3	1.3	0.0	120.1	122.4	128.2	6.7	6.3	7.0	6.0	5.0	5.7	5.7	6.3	6.1
PENNCROSS	7.3	6.0	6.3	5.0	5.0	1.3	0.7	113.5	117.3	125.1	6.0	6.3	6.0	5.0	5.0	5.0	5.0	5.0	5.4
LSD VALUE	2.1	2.8	1.4	0.8	1.0	2.9	3.2	34.7	38.9	45.7	1.1	1.6	0.6	0.6	2.1	0.7	1.5	0.7	0.6
C.V. (%)	10.6	14.5	11.6	7.6	9.7	52.9	85.2	21.1	25.7	23.2	8.3	10.0	5.5	5.8	16.0	6.5	11.1	6.7	5.2

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 9A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT ST. CHARLES, MO (THE MISSOURI BLUFFS GOLF COURSE)

ESTABLISHMENT		FUNGICIDES			HERBICIDES		
Seeding date	15-Sep-97	Date(s)	Product	Rate (oz./M)	Date(s)	Product	Rate (oz./M)
Problems during		10-Mar	Chipco GT	4	None		
		10-Mar	Daconil Ultrex	10 lbs./A			
FACTORS OF PLAY		22-Mar	Daconil Ultrex	2			
		25-Apr	Heritage	0.2	FERTILIZATION		
Date opened for play	open year round	25-Apr	Daconil Ultrex	2			
Date closed for play		19-May	Daconil Ultrex	1.5	Date(s)	Product	Rate (lbs. oz./M)
Type of spikes allowed	Softspikes	2-Jun	Heritage	0.2			
Uses of green	Putting, Chipping	2-Jun	Daconil Ultrex	1.5	10-Feb	Milorganite (6-2-0)	1/3 lb. N
		12-Jun	Daconil Ultrex	1.5	10-Mar	Bio Basics Pro Gro	20 oz.
MOWING		28-Jun	Prostar	2.2	10-Mar	Bio Basics N 24-0-0	1 oz.
		28-Jun	Subdue Maxx	1	10-Mar	Bio Basics P 2-20-0	0.5 oz.
Initial height	0.156"	7/3, 7/10, 7/18	Daconil Ultrex	1.5	10-Mar	Bio Basics K 1-0-24	2 oz.
Current height	0.145" (0.156" Winter)	18-Jul	Heritage	0.2	22-Mar	Bio Basics N 24-0-0	1 oz.
Frequency	Daily	27-Jul	Daconil Ultrex	1.5	22-Mar	Bio Basics P 2-20-0	1 oz.
Type of mower	Triplex	7-Aug	Heritage	0.2	22-Mar	Bio Basics K 1-0-24	2 oz.
Rollers used	None	8/7, 8/15	Echo 720	7 pints/A	22-Mar	Micro Mix Plus (FE) 2-0-0-4	1 oz.
Groomers used	None	2-Sep	Subdue Maxx	1	22-Mar	Bio Basics Pro Gro	2 oz.
		9/2, 9/23, 10/1	Daconil Ultrex	1.5	22-Mar	Macrosorb foliar	1 oz.
CULTIVATION		13-Oct	Daconil Ultrex	4	27-Mar	Macrosorb Radicular	1 oz.
		27-Nov	Echo 720	1.5	27-Mar	Bio Basics Cal 2.5-0-0-8	1 oz.
Aerification - dates	July	27-Nov	Chipco GT	3.8	27-Mar	Bio Basics Carb. 2-0-0	2 oz.
Aerification - type	Hydrojected				27-Mar	Humega	1 gal./A
Verticutting	Mar., Apr., June, Sept.				31-Mar	Bio Basics N 24-0-0	5 oz.
Dates of topdressing	every 2 weeks during season	INSECTICIDES			31-Mar	Bio Basics P 2-20-0	1 oz.
		Date(s)	Product	Rate (oz./M)	31-Mar	Bio Basics K 1-0-24	2 oz.
Other cultural practices	None				31-Mar	Micro 2-0-0-4	1 oz.
		10-Mar	Scimitar	10oz./A	31-Mar	Bio Basics Pro Gro	2 oz.
		13-Jun	Conserve SC	32oz./A			
		10-Jul	Dursban	2 lbs./Acre	NOTES/COMMENTS		
		15-Aug	Scimitar	9oz./A			
		6-Sep	Dylox	3	It is their second practice green, so there is not a heavy amount of traffic on the green.		
					The green was topdressed very other week in the Spring and Fall. During the Summer, The green was topdressed once a month to help relieve stress.		
					Topdressing began in March and continued through November. The topdressing sand was changed in the middle of the season from a fine dry sand to a sand that more closely resembled the original green mix.		
		OTHER PRODUCTS					
		Date(s)	Product	Rate (oz./M)			
		None					

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 9A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT ST. CHARLES, MO (THE MISSOURI BLUFFS GOLF COURSE)
(Cont'd)

FERTILIZATION			FERTILIZATION			FERTILIZATION		
Date(s)	Product	Rate (lbs. oz./M)	Date(s)	Product	Rate (lbs. oz./M)	Date(s)	Product	Rate (lbs. oz./M)
31-Mar	Bio Basics Mag.	1 oz.	12-Jun	Bio Basics Minors	1 oz.	15-Aug	Bio Basics P 2-20-0	1.5 oz.
31-Mar	Macrosorb foliar	1 oz.	12-Jun	Macrosorb foliar	2 oz.	15-Aug	Bio Basics K 1-0-24	1.5 oz.
9-Apr	White Gold 0-0-24	1lb. K	20-Jun	Bio Basics N 24-0-0	3 oz.	15-Aug	Bio Basics Pro Gro	1.5 oz.
10-Apr	Bio Basics N 24-0-0	5 oz.	20-Jun	Bio Basics P 2-20-0	0.5 oz.	15-Aug	Bio Basics Mag	1 oz.
10-Apr	Bio Basics P 2-20-0	2 oz.	20-Jun	Bio Basics K 1-0-24	3 oz.	15-Aug	Macrosorb foliar	1 oz.
10-Apr	Bio Basics K 1-0-24	1 oz.	20-Jun	Bio Basics Pro Gro	3 oz.	2-Sep	Eco N 24-0-0	0.5 oz.
10-Apr	Bio Basics Minors	2 oz.	20-Jun	Macrosorb foliar	1 oz.	2-Sep	Eco P 2-20-0	1.5 oz.
10-Apr	Bio Basics Pro Gro	3 oz.	21-Jun	Bio Basics Pro Gro	1.5 oz.	2-Sep	Eco K 1-0-24	1.5 oz.
10-Apr	Bio Basics Micro	1 oz.	21-Jun	Turfmaster (Bio Flora) 12-5-3	2 oz.	2-Sep	Bio Basics Pro Gro	1.5 oz.
10-Apr	Bio Basics Mag.	1 oz.	26-Jun	Roots 15-3-8	3/8 lb. N	2-Sep	Macrosorb foliar	1 oz.
10-Apr	Macrosorb foliar	1 oz.	27-Jun	White Gold 0-0-24	1lb. K	2-Sep	Bio Basics Mag	1 oz.
17-Apr	Eco Carbo's	2 oz.	28-Jun	Macrosorb Radicular	1 oz.	4-Sep	Soil Synergy 10-2-8	0.2 lb. N
17-Apr	Macrosorb Radicular	2 oz.	28-Jun	Nature Safe 8-3-5	1/2 lb. N	4-Sep	White Gold 0-0-24	1 lb. K
25-Apr	Eco N 24-0-0	5 oz.	28-Jun	Soil Synergy 10-2-8	3/8 lb. N	4-Sep	Gypsum	3/4 lbs.
25-Apr	Eco P 2-20-0	2 oz.	3-Jul	Bio Basics N 24-0-0	1 oz.	23-Sep	Bio Basics N 24-0-0	3 oz.
25-Apr	Eco K 1-0-24	2 oz.	3-Jul	Bio Basics K 1-0-24	2 oz.	23-Sep	Bio Basics P 2-20-0	3 oz.
25-Apr	Bio Basics Pro Gro	4 oz.	3-Jul	Bio Basics Pro Gro	2 oz.	23-Sep	Bio Basics K 1-0-24	3 oz.
25-Apr	Bio Basics Minors, Micro	1 oz.	3-Jul	Bio Basics Minors	2 oz.	23-Sep	Bio Basics Pro Gro	3 oz.
25-Apr	Macrosorb foliar	1 oz.	3-Jul	Bio Flora iron	2 oz.	23-Sep	Bio Basics Cal	3 oz.
2-May	White Gold 0-0-24	1lb. K	3-Jul	Macrosorb foliar	1 oz.	1-Oct	Bio Basics N 24-0-0	1.5 oz.
15-May	Bio Basics Carb	1 gal./A	3-Jul	Roots Stand Up	3 oz.	1-Oct	Bio Basics P 2-20-0	1.5 oz.
15-May	Bio Basics Cal	1 gal./A	10-Jul	Bio Basics N 24-0-0	0.5 oz.	1-Oct	Bio Basics K 1-0-24	1.5 oz.
15-May	Macrosorb Radicular	1 oz.	10-Jul	Bio Basics P 2-20-0	2 oz.	1-Oct	Bio Basics Pro Gro	1.5 oz.
15-May	Sol-U-Bor	4 lbs./A	10-Jul	Bio Basics K 1-0-24	3 oz.	1-Oct	Bio Basics Cal	1.5 oz.
15-May	Magnesium	3 lbs./A	10-Jul	Bio Basics Minors	1 oz.	6-Oct	Scott's Iron	4 oz.
18-May	Roots 15-3-8	0.5 lb. N	10-Jul	Macrosorb foliar	2 oz.	12-Oct	Soil Synergy 10-2-8	3/8 lb. N
19-May	Eco N 24-0-0	0.5 oz.	18-Jul	Bio Basics N 24-0-0	1.5 oz.	13-Oct	Bio Basics N 24-0-0	1.5 oz.
19-May	Eco P 2-20-0	2 oz.	18-Jul	Bio Basics P 2-20-0	1.5 oz.	13-Oct	Bio Basics P 2-20-0	1.5 oz.
19-May	Eco K 1-0-24	3 oz.	18-Jul	Bio Basics K 1-0-24	1.5 oz.	13-Oct	Bio Basics K 1-0-24	1.5 oz.
19-May	Bio Basics Pro Gro	1 oz.	18-Jul	Bio Basics Pro Gro	1.5 oz.	13-Oct	Bio Basics Pro Gro	1.5 oz.
19-May	Bio Basics Minors	1 oz.	18-Jul	Macrosorb foliar	1 oz.	13-Oct	Bio Basics Minors	1.5 oz.
19-May	Macrosorb foliar	1 oz.	18-Jul	Roots Stand Up	1.5 oz.	13-Oct	Bio Basics Cal	1.5 oz.
1-Jun	White Gold 0-0-24	1lb. K	18-Jul	Soil Synergy 10-2-8	0.2 lb. N	26-Oct	Soil Synergy 10-2-8	1/4 lb. N
2-Jun	Macrosorb foliar	2 oz.	18-Jul	White Gold 0-0-24	0.5 lb. K	26-Oct	White Gold 0-0-24	1 lb. K
2-Jun	Bio Basics N 24-0-0	1 oz.	18-Jul	Gypsum	4 lbs.	13-Nov	Par Ex 21-3-16	1 lb. N
2-Jun	Bio Basics P 2-20-0	2 oz.	27-Jul	Bio Basics N 24-0-0	1 oz.	27-Nov	White Gold 0-0-24	1 lb. K
2-Jun	Bio Basics K 1-0-24	1 oz.	27-Jul	Bio Basics P 2-20-0	1 oz.	27-Nov	Gypsum	3/4 lbs.
2-Jun	Bio Basics Pro Gro	3 oz.	27-Jul	Bio Basics K 1-0-24	3 oz.	27-Nov	Turfmaster (Bio Flora) 12-5-	1.5 oz.
2-Jun	Bio Basics Minors	1 oz.	27-Jul	Bio Basics Minors	1.5 oz.	27-Nov	Macrosorb Radicular	Bio Basics K 1-0-24
12-Jun	Bio Basics N 24-0-0	2 oz.	27-Jul	Bio Basics Pro Gro	1.5 oz.	27-Nov	Manganese Sulfate	3 lbs./A
12-Jun	Bio Basics P 2-20-0	2 oz.	27-Jul	Macrosorb foliar	1 oz.	27-Nov	Sol-U-Bor	4 lbs./A
12-Jun	Bio Basics K 1-0-24	1 oz.	27-Jul	Bio Basics Mag	1.5 oz.	27-Nov	Bio Basics N 24-0-0	Bio Basics K 1-0-24
12-Jun	Bio Basics Pro Gro	2 oz.	15-Aug	Bio Basics N 24-0-0	0.5 oz.	27-Nov	Bio Basics K 1-0-24	Bio Basics K 1-0-24

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 9B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT ST. CHARLES, MO (THE MISSOURI BLUFFS G.C.) 1/
2000 DATA

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

NAME	GENETIC COLOR	LEAF LEAFTEX	QUALITY RATINGS									
			MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
PENN G-1	8.0	8.0	7.0	7.7	7.7	8.0	8.0	7.3	7.7	7.0	7.0	7.5
PENN A-1	8.0	8.0	6.7	7.7	7.7	7.3	7.7	7.3	7.3	7.3	7.3	7.4
PENN A-4	7.7	8.0	7.0	7.7	7.7	8.0	7.7	7.7	7.0	6.7	7.3	7.4
CENTURY	6.3	7.0	7.0	8.0	8.0	7.7	8.0	7.0	6.7	7.0	6.3	7.3
IMPERIAL	6.7	7.3	7.0	8.0	8.0	7.7	8.0	7.0	7.3	6.3	6.3	7.3
BACKSPIN	4.7	7.3	7.0	8.0	8.0	7.7	8.0	6.0	7.0	7.0	6.3	7.2
PENN G-6	8.0	8.0	6.3	7.0	7.3	7.3	8.0	7.3	7.0	6.7	7.0	7.1
GRAND PRIX (LCB-103)	7.3	7.0	6.3	7.3	7.7	7.3	7.7	6.7	6.7	6.7	6.7	7.0
L-93	7.7	6.7	6.3	7.3	7.3	7.3	7.3	7.0	6.3	6.3	6.3	6.9
SR 1020	7.3	7.0	6.0	7.0	7.3	7.3	7.0	6.3	6.3	6.3	6.3	6.7
SR 1119	7.0	7.0	6.7	7.3	7.3	7.0	7.0	6.7	6.0	6.3	6.0	6.7
CATO	7.0	6.7	6.7	7.3	7.3	7.0	7.0	6.7	5.7	6.0	6.0	6.6
CRENSHAW	7.7	7.0	6.3	7.0	7.0	6.7	7.0	6.7	6.3	6.0	6.0	6.6
PROVIDENCE	6.7	6.7	6.3	7.3	7.3	7.0	7.0	6.3	6.3	6.0	6.0	6.6
PUTTER	6.7	6.0	6.3	6.3	7.0	7.0	7.0	6.3	5.7	5.7	6.0	6.4
VIPER	7.0	6.3	6.0	7.0	7.0	6.7	7.0	6.3	6.0	5.3	6.3	6.4
TRUELINE	6.7	5.7	6.0	7.0	7.0	6.7	7.0	6.7	5.3	5.3	5.7	6.3
PENNCROSS	5.3	4.0	5.3	6.0	6.0	6.0	6.0	5.3	5.0	5.0	5.0	5.5
LSD VALUE	0.7	0.7	0.7	0.7	0.7	0.6	0.4	1.0	1.2	0.8	0.9	0.3
C.V. (%)	6.4	7.0	6.5	5.6	5.7	5.4	3.4	8.2	10.4	7.7	8.3	3.2

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 10.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT RYE, NY (WESTCHESTER COUNTRY CLUB) 1/
2000 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY SPRING	DENSITY SUMMER	DENSITY FALL	PERCENT LIVING COVER	PERCENT LIVING COVER	QUALITY RATINGS							
							SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PENN A-4	5.7	6.0	8.7	8.7	9.0	8.7	94.3	97.0	8.0	9.0	9.0	8.3	8.7	9.0	8.7	8.7
PENN G-1	6.7	6.7	8.7	8.7	8.3	8.0	89.0	81.7	8.3	8.7	9.0	8.7	7.7	8.3	8.3	8.4
CENTURY	4.0	6.0	9.0	8.7	8.7	7.7	91.7	85.0	7.3	8.7	8.7	8.0	8.0	8.3	7.3	8.0
GRAND PRIX (LCB-103)	3.7	6.3	8.0	8.0	8.3	7.7	91.7	91.7	8.0	8.0	8.0	8.3	7.7	8.7	7.7	8.0
PENN A-1	6.0	6.3	8.3	8.7	8.3	8.3	80.7	90.0	7.7	9.0	8.3	8.0	6.3	8.0	8.7	8.0
PENN G-6	6.0	7.0	7.7	8.3	8.7	7.3	93.3	85.0	8.7	8.0	8.3	7.3	7.3	8.7	7.0	7.9
SR 1119	8.3	5.3	7.0	7.0	6.7	6.7	81.7	73.3	6.7	7.7	8.0	7.3	7.0	7.0	6.7	7.2
BACKSPIN	4.7	5.3	7.7	8.0	8.3	5.7	85.0	71.7	6.7	7.7	8.0	7.7	6.7	7.0	6.3	7.1
L-93	7.7	5.7	7.0	7.0	7.0	6.7	88.3	73.3	6.7	7.3	7.7	7.0	7.7	6.7	7.0	7.1
IMPERIAL	5.3	4.7	8.3	8.0	8.0	5.7	86.7	68.3	6.3	7.3	7.7	7.7	7.0	6.7	6.0	7.0
SR 1020	5.7	6.7	6.3	7.0	7.3	7.0	80.0	73.3	7.0	6.7	6.3	7.0	6.3	6.7	6.3	6.6
CRENSHAW	6.0	4.7	6.0	6.0	6.3	5.3	76.7	70.0	6.0	6.3	6.3	7.0	6.7	6.3	6.0	6.4
PROVIDENCE	6.3	6.0	6.3	6.3	5.7	5.7	70.0	70.0	6.0	6.3	6.3	6.7	5.3	5.3	6.0	6.0
CATO	7.0	4.7	6.3	6.3	5.7	5.0	70.0	68.3	5.3	6.7	6.0	6.0	5.3	5.3	5.7	5.8
TRUELINE	6.3	4.0	5.3	5.0	4.3	5.0	58.3	55.0	4.7	5.0	4.7	5.3	4.3	4.3	4.7	4.7
VIPER	8.3	3.7	5.7	5.3	3.7	4.3	48.3	55.0	4.3	5.0	5.0	5.3	3.7	4.0	5.0	4.6
PUTTER	4.0	3.0	4.3	4.0	4.0	3.3	50.0	45.0	3.7	4.3	3.7	4.7	2.3	3.7	3.7	3.7
PENNCROSS	3.3	3.7	4.0	4.0	3.7	2.7	55.0	40.0	3.7	4.0	3.3	3.0	2.7	3.3	3.3	3.3
LSD VALUE	1.4	1.2	0.8	0.7	0.8	1.2	9.7	10.1	1.0	0.8	0.7	0.8	1.0	1.2	0.7	0.5
C.V. (%)	15.3	14.3	7.8	6.6	8.2	12.5	8.3	9.3	9.9	8.0	6.7	8.0	11.3	11.9	7.6	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 11A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

ESTABLISHMENT		FERTILIZATION			FUNGICIDES					
Seeding date	10-Sep-97	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)			
Problems during	None	Granular Fertilizer Applications			2 applications of Heritage in Spring and 2 applications in Fall for Take-all Prevention					
FACTORS OF PLAY		February	Par Ex 16-0-24	0.5 lb. N	HERBICIDES					
		March	Par Ex 16-0-24	0.5 lb. N						
Date opened for play	open every day except	May	Polyon 0-0-46	1 lb. K						
Date closed for play	Monday when club closed	June	Polyon 0-0-46	1 lb. K						
Type of spikes allowed	Softspikes	July	Polyon 0-0-46	1 lb. K				Date(s)	Product	Rate (oz./M)
Uses of green	Chipping and Putting	September	Polyon 0-0-46	1 lb. K						
		September	Scotts 13-2-26	0.5 lb. N						
		October	Polyon 0-0-46	1 lb. K						
		November	Scotts 15-0-29	0.5 lb. N						
		December	Scotts 15-0-29	0.5 lb. N						
MOWING		December	Polyon 0-0-32	0.5 lb. K	INSECTICIDES					
Initial height					Date(s)	Product	Rate (oz./M)			
Current height	0.125"				Sprayed cutworms in May, June and July with Battle GC.					
Frequency	6 days/week	Total - Granular app.	2.5 lbs. N, 0.10 lbs. P,	10.4 lbs. K						
Type of mower	Toro 1000 walking unit									
Rollers used	Brush attachments used in									
Groomers used	growing season	Foliar Fertilizer Applications								
CULTIVATION		Every two weeks throughout year (24 Apps)			OTHER PRODUCTS					
		Each Floratine app. consisted of:			Date(s)	Product	Rate (oz./M)			
Aerification - dates	Solid tine (1/4") in May, Sept.									
Aerification - type	Hydroject monthly in June,	Total - Foliar app.	1.3 lbs. N, 0.7 lbs. P,	2.1 lbs. K						
Verticutting	Verticut biweekly April-June.									
	Verticut monthly July-Sept. Verticut biweekly Oct.-Nov.									
Dates of topdressing	Topdressed biweekly during growing season - March through November at light rates with Turfco spinner unit. Heavy application following solid tine aerification.	Total Fertilizer app.	3.8 lbs. N, 0.8 lbs. P,	12.5 lbs. K	NOTES/COMMENTS					
Other cultural practices	Rolled before special events. 6 times in April-June. Rolled 7 times/week in Winter when not necessary to mow.									

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 11B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT DALLAS, TX (BENT TREE COUNTRY CLUB) 1/
2000 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	DENSITY SPRING	DENSITY SUMMER	QUALITY RATINGS												MEAN
					JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP	OCT	NOV	DEC		
PENN A-4	7.7	7.3	7.7	6.0	7.3	6.3	6.7	7.7	6.7	7.0	6.0	4.7	7.7	8.0	8.3	6.9	
IMPERIAL	6.0	6.3	7.0	6.0	7.0	7.0	6.7	7.3	6.3	5.3	6.3	6.0	6.3	7.7	8.3	6.8	
PENN A-1	5.3	7.7	8.0	6.3	7.3	6.3	6.7	7.7	5.7	5.3	6.3	5.7	7.7	8.3	7.7	6.8	
L-93	6.3	5.0	7.3	6.7	7.0	6.7	7.0	7.3	7.0	6.7	6.7	4.7	5.7	7.0	8.0	6.7	
PENN G-1	6.3	6.0	6.7	6.7	7.3	7.0	6.7	6.3	6.7	5.7	6.3	5.3	6.7	8.0	8.0	6.7	
SR 1119	7.0	5.3	8.0	6.3	6.7	5.7	6.0	8.3	7.3	6.3	6.3	5.3	5.7	7.3	8.3	6.7	
PENN G-6	6.3	5.7	7.3	4.7	6.3	6.3	7.7	7.0	6.3	6.3	5.0	5.7	7.0	7.7	7.7	6.6	
GRAND PRIX (LCB-103)	5.7	7.7	5.3	5.0	6.0	6.7	6.7	5.3	5.7	6.7	5.0	6.3	6.7	8.0	9.0	6.5	
SR 1020	5.7	6.0	7.7	4.7	7.7	7.0	7.7	7.7	5.3	5.0	5.3	5.3	5.7	7.7	7.7	6.5	
BACKSPIN	6.0	7.3	6.7	6.3	6.7	6.0	6.0	7.0	5.3	5.3	6.3	5.3	6.7	7.7	7.7	6.4	
CENTURY	6.0	7.7	7.0	6.3	5.7	6.3	6.3	6.7	5.7	5.7	6.0	5.3	7.0	8.0	7.7	6.4	
CATO	5.3	5.7	7.0	4.7	7.0	7.0	6.3	7.3	5.3	4.7	4.7	4.3	6.0	7.7	8.0	6.2	
CRENSHAW	4.7	6.7	7.7	4.7	6.3	6.0	6.7	7.3	5.3	6.0	5.0	5.7	6.0	7.3	7.0	6.2	
PUTTER	5.0	5.7	7.7	5.7	7.0	6.7	5.7	8.0	5.0	5.7	6.0	4.3	5.7	7.0	7.7	6.2	
TRUELINE	5.3	5.3	7.0	6.7	6.7	5.3	6.3	7.3	6.0	5.0	6.0	4.3	5.7	7.0	7.7	6.1	
PROVIDENCE	6.3	6.0	6.3	4.3	6.3	5.7	6.7	6.7	6.0	4.3	4.7	4.7	5.3	7.0	7.7	5.9	
VIPER	5.3	5.3	7.0	4.3	7.0	6.3	6.7	7.0	5.3	4.7	5.0	4.0	5.0	6.7	7.3	5.9	
PENNCROSS	4.3	4.0	8.0	4.0	7.0	6.3	5.7	7.7	4.7	4.0	4.3	4.0	5.0	6.0	7.7	5.7	
LSD VALUE	1.7	1.5	3.1	3.8	-	2.8	2.0	2.9	3.3	1.4	4.2	1.7	1.0	0.8	1.6	0.7	
C.V. (%)	15.1	14.5	15.3	26.2	14.6	14.4	12.2	14.7	20.1	14.0	24.3	15.9	9.5	6.5	8.1	5.9	

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

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

TABLE 12A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT VIENNA, VA (WESTWOOD GOLF COURSE)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Seeding date	5-Sep-97	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	None						
		4/3, 4/11, 5/1	18-3-12	0.5 N	5/8, 6/5, 7/27, 8/20	Acclaim	3 oz./Acre
		5/31, 8/14	14-1-11	0.5 N			
FACTORS OF PLAY		28-Aug	18-3-12	0.5 N			
		10-Sep	14-1-11	0.5 N			
Date opened for play	20-Apr-98	22-Sep	18-3-12	0.5 N			
Date closed for play		3-Oct	14-1-11	0.5 N			
Type of spikes allowed	softspikes	10-Nov	17-3-17	0.6 N			
Uses of green	putting, chipping						
			Total	5.1 lbs N/M			
MOWING							
					5/8, 5/26	Delta Guard	0.2
Initial height					27-Jul	Delta Guard	0.15
Current height	0.125"				25-Aug	Sevin	1
Frequency		Date(s)	Product	Rate (oz./M)			
Type of mower							
Rollers used		27-Mar	Chipco GT 4oz./M., Embark 4oz./A.				
Groomers used		26-Apr	Embark 3oz./A, Ferromec 4oz./M, Echo 4oz./M				
CULTIVATION		8-May	Heritage 0.4oz./M, Curalan 1oz./M, Ferromec 4oz./M				
						OTHER PRODUCTS	
Aerification - dates	April, September	26-May	Echo	6	Date(s)	Product	Rate (oz./M)
Aerification - type	Aerated - Egypt Farms 80/20 sterilized	5-Jun	Banner Maxx 4 oz., Heritage 0.4oz., Fore 4oz., Foliar 1.5oz., Radicular 1.5oz., Ferromec 4oz.			Growth Regulators	
Verticutting	None						
Dates of topdressing	Topdressed - Egypt Farms 80/20 sterilized (April, Sept.)	14-Jun	Echo 4 oz., Ferromec 4oz. Foliar 2oz., Radicular 2oz.		6/28, 8/8, 10/11	Primo	0.15
		19-Jun	Echo	4			
Other cultural practices	None	28-Jun	Banner Maxx 4oz, Subdue 1oz. Fore 4oz., Compass 0.15oz.				
		6-Jul	Cleary's 8oz., Ferromec 6oz.			NOTES/COMMENTS	
		16-Jul	Echo	6			
		27-Jul	Echo 4oz, Fore 4oz., Subdue 1oz.				
		2-Aug	Echo	4			
		8-Aug	Echo 4oz, Fore 4oz., Subdue 1oz.				
		20-Aug	Echo 4oz., Ferromec 4oz., Heritage 0.25oz., Foliar 2oz., Radicular 2oz.				
		1-Sep	Bayleton 1oz, Echo 6oz., Compass 0.2oz., Fore 4oz.				
		11-Oct	Banner Maxx 1oz., Foliar 2oz., Radicular 2oz., Ferromec 4oz.				
		30-Nov	Echo 4oz, PMAS 0.6oz.				

Product and company names mentioned herein may be trademarks and/or registered trademarks of their respective owners

TABLE 12B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
 1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
 AT VIENNA, VA (WESTWOOD GOLF COURSE) 1/
 2000 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
 TURFGRASS STIMPMETER READINGS MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS							
				MAR	APR	MAY	JUL	AUG	SEP	OCT	MEAN
PENN A-4	7.0	5.7	8.0	5.7	6.0	6.7	7.0	8.3	7.0	7.7	6.9
PENN A-1	7.3	5.7	7.7	6.3	5.3	6.0	7.3	8.0	7.3	7.3	6.8
PENN G-6	6.3	5.7	7.7	6.3	5.3	6.0	7.0	8.0	7.3	7.0	6.7
CENTURY	7.0	5.0	7.7	6.3	5.3	6.3	6.7	7.7	7.0	7.0	6.6
GRAND PRIX (LCB-103)	6.7	5.3	7.7	6.3	5.3	5.7	6.7	8.3	7.0	7.0	6.6
L-93	7.0	6.0	8.0	6.3	5.0	6.3	7.0	7.7	7.0	6.7	6.6
CATO	6.0	6.3	7.7	6.3	5.7	6.0	7.0	7.3	6.7	6.3	6.5
CRENSHAW	6.7	5.7	8.0	6.0	5.3	6.0	7.0	8.0	6.7	6.3	6.5
PENN G-1	6.0	5.3	8.3	6.0	5.0	5.3	7.0	8.0	6.3	7.0	6.4
SR 1020	6.0	5.3	8.0	6.0	5.3	5.7	7.3	8.0	6.3	6.0	6.4
BACKSPIN	7.3	5.0	8.0	6.0	5.0	6.0	6.3	7.7	7.7	5.7	6.3
IMPERIAL	6.0	6.0	8.0	6.0	5.3	6.0	6.7	7.7	6.3	6.3	6.3
PROVIDENCE	7.0	6.0	7.0	6.3	5.7	5.7	6.7	7.0	6.7	6.3	6.3
SR 1119	6.0	5.3	8.0	5.7	5.7	5.3	7.0	7.3	6.7	6.0	6.2
PUTTER	6.3	6.0	7.7	6.0	5.3	5.7	6.3	7.3	6.0	5.7	6.0
VIPER	6.3	5.3	6.3	5.3	5.3	5.7	6.3	7.0	6.7	5.7	6.0
TRUELINE	6.0	5.0	6.7	5.7	4.7	5.0	6.3	6.7	6.3	5.7	5.8
PENNCROSS	5.3	4.7	6.3	5.0	4.7	4.3	6.0	5.7	6.0	4.3	5.1
LSD VALUE	0.7	1.1	1.7	1.5	1.6	1.0	2.0	0.9	1.4	0.7	0.4
C.V. (%)	6.6	9.6	10.0	9.6	10.6	9.4	10.0	6.8	9.2	6.9	4.3

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 13A. 2000 MANAGEMENT - ON-SITE BENTGRASS TEST AT SNOQUALMIE, WA (TPC AT SNOQUALMIE RIDGE)

ESTABLISHMENT		FERTILIZATION			FUNGICIDES		
Seeding date	8-Jun-98	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during		31-Jan	Kpower (13.75-0-46)	0.4	21-Jan	PenStar	4.5
		3-Apr	Kpower (13.75-0-46)	0.28	13-Apr	Dursban	1.5 lbs./M
FACTORS OF PLAY		24-Apr	N-Sure (28-0-0), KTS (0-0-25), DPE (Iron & Sulfur), Molasses	0.33N, 0.20K, 0.02Fe, 0.14S	24-Apr	Heritage	0.4
Date opened for play					5/25, 9/7	Heritage	0.35
Date closed for play		25-May	N-Sure (28-0-0), Molasses (5 gal./300 gal. Water)	0.50N, 0.30K, 0.02Fe, 0.14S	5-Oct	Heritage	0.42
Type of spikes allowed							
Uses of green	Putting	15-Jun	MAP (10-34-0), KTS (0-0-25), DPE (Iron & Sulfur), Molasses	0.33N, 0.30K, 0.02Fe, 0.21S	HERBICIDES		
					Date(s)	Product	Rate (oz./M)
MOWING		29-Jun	N-Sure (28-0-0), Molasses	0.33N, 0.15K, 0.03Fe, 0.10S	None		
Initial height	0.145"	7/18, 8/14	N-Sure (28-0-0), Molasses	0.33N, 0.20K, 0.14Fe, 0.36S			
Current height	0.187"						
Frequency	1-7x/week	24-Aug	N-Sure (28-0-0), Molasses	0.50N, 0.20K, 0.14Fe, 0.36S			
Type of mower	Walking Toro 1000						
Rollers used	Grooved type wiley roller	21-Sep	MAP (12-61-0)	0.44N	INSECTICIDES		
Groomers used	1x/week - 5/15/9/1	12-Oct	N-Sure (28-0-0)	0.33N, 0.20K, 0.14Fe, 0.36S	Date(s)	Product	Rate (oz./M)
CULTIVATION		27-Nov	Kpower (13.75-0-46)	0.4	None		
Aerification - dates	5/30, 8/29	Total/year	4.50 lbs. N, 2.12 lbs. P, 5.36 lbs. K, 0.65 lb. Fe, 2.03 lbs. S				
Aerification - type	Hollow Tines						
Verticutting or other cultivation	Verticut - 4/18, 5/15, 6/26, 7/17, 8/18		Lime		OTHER PRODUCTS		
Dates of topdressing or other type products applied	Topdressed lightly (approx. 0.5 yard sand 500ft ²) - 4/18, 5/15, 5/30, 6/26, 7/17, 8/17, 8/29	3-Aug	Gypril Lime	15	Date(s)	Product	Rate (oz./M)
		8-Nov	Dolopril-Lime	15	Wetting Agents		
Other cultural practices	Rolling - 5/19-20, 6/19, 7/10, 7/11, 7/15, 7/22, 7/29, 8/5, 8/12, 8/19, 8/26, 9/9, 9/16, 9/23		NOTES/COMMENTS		3-Jul	Primer	4
					1-Aug	Primer	6

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TABLE 13B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
1997 USGA/GCSAA/NTEP ON-SITE BENTGRASS TEST
AT SNOQUALMIE, WA (TPC AT SNOQUALMIE RIDGE) 1/
2000 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/
TURFGRASS STIMPMETER READINGS MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	DENSITY SUMMER	WINTER COLOR	FILLING AFTER AERIFICATION	STIMPMETER READINGS			QUALITY RATINGS												
							APRIL	AUGUST	NOVEMBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PENN A-4	7.0	7.0	9.0	9.0	6.0	6.3	103.3	148.3	134.0	6.0	6.3	7.0	6.3	6.0	7.7	8.0	8.0	6.7	7.0	7.0	6.0	6.8
CENTURY	5.7	5.0	9.0	9.0	5.7	6.7	98.3	134.3	127.7	5.7	7.0	7.0	6.3	6.3	7.0	7.7	8.3	6.3	7.0	6.0	5.3	6.7
L-93	7.0	6.7	7.7	8.0	4.0	6.3	96.3	138.0	129.0	5.0	6.0	6.7	5.7	5.7	7.0	8.0	8.0	6.7	7.7	6.7	6.3	6.6
PENN G-1	7.0	6.7	8.3	9.0	5.7	6.0	94.7	131.3	118.0	5.0	5.7	6.0	6.3	6.0	7.3	8.0	8.3	6.0	7.7	6.7	6.0	6.6
GRAND PRIX (LCB-103)	6.0	5.0	8.7	8.3	6.0	5.7	103.0	155.7	134.0	5.7	6.0	6.7	6.3	6.0	6.7	7.3	7.7	6.0	6.7	7.0	6.0	6.5
PENN A-1	7.0	6.0	9.0	9.0	5.0	5.7	95.7	139.0	127.3	5.7	5.7	7.0	5.7	5.3	7.0	8.0	8.0	6.3	7.0	6.7	5.7	6.5
IMPERIAL	5.7	6.0	8.3	8.3	4.7	6.3	99.7	136.7	122.3	5.0	5.7	6.3	5.7	5.7	7.3	6.7	8.3	6.3	6.7	6.3	5.7	6.3
BACKSPIN	6.0	6.0	8.0	8.3	4.0	6.0	104.0	136.7	124.3	5.0	6.0	5.7	6.0	5.3	7.0	7.7	7.3	6.3	6.7	6.0	5.3	6.2
SR 1020	6.7	6.0	8.0	8.0	5.0	5.3	101.3	141.3	126.0	5.7	5.0	6.0	5.7	5.7	6.7	7.0	7.3	5.7	7.0	6.3	6.3	6.2
PENN G-6	6.7	6.7	8.3	8.0	4.0	6.0	99.0	139.3	123.7	5.0	5.0	6.3	5.7	5.3	7.0	7.0	7.0	6.3	7.0	6.0	5.3	6.1
SR 1119	7.0	6.7	8.0	8.0	4.0	5.3	100.0	138.3	126.0	5.0	5.7	6.0	5.0	6.0	7.0	7.0	7.0	6.0	7.0	6.0	5.0	6.1
PROVIDENCE	6.7	5.7	7.0	8.0	4.0	6.3	104.0	141.0	132.7	5.0	5.7	6.3	5.0	5.7	6.7	6.3	7.3	6.0	6.3	6.0	5.3	6.0
CATO	7.0	6.0	7.7	8.0	4.0	5.3	97.3	134.0	137.3	5.0	5.7	5.3	5.7	5.7	6.3	7.0	7.3	5.3	6.0	5.0	5.7	5.8
TRUELINE	6.7	6.3	7.3	7.7	4.3	6.3	100.3	138.0	128.3	5.0	5.0	5.3	5.0	5.3	7.0	6.3	6.7	6.0	6.7	5.3	5.7	5.8
VIPER	6.7	7.0	8.0	8.0	4.0	5.7	100.3	135.7	136.3	5.0	5.3	5.7	5.0	5.0	6.7	7.0	7.0	6.0	6.0	6.0	5.3	5.8
CRENSHAW	7.0	6.7	7.3	8.0	3.0	6.0	105.0	147.7	141.7	4.3	4.0	5.3	5.0	5.3	6.0	7.0	7.0	6.3	6.7	4.7	4.7	5.5
PUTTER	6.0	6.0	7.0	7.3	5.0	5.7	98.3	143.3	131.7	5.0	5.0	5.0	5.0	4.7	5.7	6.0	6.0	5.3	5.3	5.7	5.3	5.3
PENNCROSS	5.7	5.0	6.7	7.0	4.0	6.0	98.0	135.7	139.0	5.0	4.0	4.0	4.3	4.0	6.0	5.0	5.7	5.0	5.3	4.3	4.7	4.8
LSD VALUE	0.6	0.7	0.6	0.5	0.4	1.5	-	28.9	24.2	0.5	0.7	0.6	0.9	0.8	1.0	0.7	0.7	0.8	1.0	0.8	1.0	0.3
C.V. (%)	6.0	7.1	5.0	3.8	6.1	9.9	7.3	7.2	7.2	6.0	8.3	6.3	9.4	8.2	7.5	6.7	6.1	7.1	8.5	8.1	9.3	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.