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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:

Kevin Morris, Executive Director
National Turfgrass Evaluation Program
Beltsville Agricultural Research Center-West
Building 001 Room 245
Beltsville, Maryland 20705 USA

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 Point 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. Clark Throssell, 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 BERMUDAGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor
1	MS-Supreme	Mississippi State University
2	TifEagle	Georgia Seed Development Commission
3	Mini-Verde	Turfgrass America
4	Tifdwarf	Standard Entry
5	Champion	Coastal Turf, Inc.
6	Tifgreen	Standard Entry
7	Floradwarf	Florida Turfgrass Foundation

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

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Planting date	11-Jun-98	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	None	March, April, May	26-0-22 (Nutralene+KNO ₃)	0.5 lb. N	March, May, July	Bensulide	
FACTORS OF PLAY		June, July	Anderson's (22-0-22)	0.5 lb. N			
		June, July	K ₂ SO ₄ (0-0-24)	1 lb. K ₂ O			
		March-November	20-5-20 ProSol foliar	1/16 lb. N			
Date opened for play	July of 1998. Open year				INSECTICIDES		
Date closed for play	round				Date(s)	Product	Rate (oz./M)
Type of spikes allowed	softspikes						
Uses of green	chipping, bunker practice				for cutworms,	Talstar	
MOWING					armyworms and a few		
					mole crickets		
Initial height	0.25"	FUNGICIDES					
Current height	0.125-0.150"	Date(s)	Product	Rate (oz./M)			
Frequency	6-7 days/week				OTHER PRODUCTS		
Type of mower	Toro 800 walk				Date(s)	Product	Rate (oz./M)
Rollers used		Fungicides are sprayed	Alliette	4			
Groomers used	6-7 days/week	biweekly in summer	Banol	2	None		
		depending on weather	Subdue Maxx	1			
		conditions. Big	Dithane	4			
CULTIVATION		problem with pythium	Daconil Ultrex	4-8 oz.			
Aerification - dates	5/8" hollow - June. 1/4"	so Alliette, Banol,	Heritage	0.4			
Aerification - type	hollow tine- July & August.	Subdue, and Heritage	Consynt	4			
	Graden - Sept. 1.	are rotated and sprayed	Terrazole	6			
		on a two weeks			NOTES/COMMENTS		
Verticutting	Lightly verticut every 3	schedule.			Overseeded with Poa trivialis and covered when temperatures dropped below 24 degrees. Areas of green that get the most splash from bunkers are healthier. No discernable layer underneath. Weekly topdressing would probably be better.		
	weeks or so.						
Dates of topdressing	Heavy after aerifications,						
	Lightly bi-weekly						
Other cultural practices	Rolling as needed						

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TABLE 1B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS
 IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST
 AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM) 1/
 2000 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	COLOR MARCH	FALL	FALL	QUALITY RATINGS											
				COLOR AUGUST	COLOR SEPTEMBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	DEC	MEAN
MINI-VERDE	7.0	6.0	6.0	6.7	5.7	6.0	7.0	6.3	6.7	6.0	6.0	6.7	6.7	6.7	5.7	3.7	6.1
MS-SUPREME	6.7	6.3	6.3	3.7	4.0	6.0	7.3	7.0	7.0	6.3	6.7	6.0	5.7	3.7	4.7	3.3	5.8
TIFEAGLE	6.0	5.0	5.0	6.0	5.0	6.0	6.0	6.7	7.0	5.3	6.3	6.0	6.3	6.3	5.7	2.7	5.8
CHAMPION	7.0	5.3	5.3	5.7	3.7	5.7	6.0	7.0	6.7	6.0	6.0	6.7	6.0	5.3	4.7	2.7	5.7
FLORADWARF	7.3	6.0	6.0	5.3	4.7	5.7	6.3	6.3	7.0	6.0	5.3	6.7	6.3	5.3	5.0	2.7	5.7
TIFDWARF	6.0	6.7	6.7	6.7	4.3	6.0	5.7	6.0	7.0	6.0	5.3	5.3	4.7	7.0	3.7	3.7	5.5
TIFGREEN	4.7	4.3	4.3	3.0	3.3	5.3	3.7	4.7	5.0	4.0	4.0	4.0	3.0	3.3	3.3	4.0	4.0
LSD VALUE	1.3	1.0	1.0	1.1	1.6	0.8	0.9	1.3	1.0	1.0	0.7	1.0	1.0	1.0	0.9	1.5	0.4
C.V. (%)	11.0	9.8	9.8	12.3	17.7	6.3	9.0	10.8	7.8	9.9	7.2	9.8	10.2	11.4	11.3	21.7	4.4

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 2A. 2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Planting date	18-Jun-98	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	None						
	1 lb. N/M, amend soil with Ca as needed. Topdress & roll until smooth surface was attained	June - October November - May		1 lb. N & 2 lbs. K 1/2 lb. N & 1 lb. K	None		
				75% slow release (Nutralene) Nitrogen Typical blend 12-2-24 Foliar nutrients as needed (<2 lbs./year)			
FACTORS OF PLAY							
Date opened for play		FUNGICIDES			INSECTICIDES		
Date closed for play	NA	Date(s)	Product	Rate (oz./M)	Date(s)	Product	Rate (oz./M)
Type of spikes allowed	softspikes						
Uses of green	putting, chipping,	July-September Fall, Spring	Delta Guard for army worms Banol, Heritage, Terrazole for Pythium		None		
MOWING							
Initial height	0.155"	Chipco, chlorothalonil for patch disease					
Current height	0.140"						
Frequency	7 days/week						
Type of mower	walking				OTHER PRODUCTS		
Rollers used	weekly in June - October				Date(s)	Product	Rate (oz./M)
Groomers used							
CULTIVATION		NOTES/COMMENTS				Aquafer Wetting agent	4 oz./K every 30 days
Aerification - dates	5/15 and 8/14	Lots of disease fall of 2000. Tifgreen almost gone - taken over by adjacent plots. High nematode populations on Floradwarf.					
Aerification - type	5/8" Hollow Tines						
Verticutting	Verticut lightly every other						
Dates of topdressing	Monday in June-Oct. & topdressed lightly on the opposite Mondays. Topdressing monthly in November to May.						
Other cultural practices							

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TABLE 2B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS
 IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST
 AT MOBILE, AL (COUNTRY CLUB OF MOBILE) 1/
 2000 DATA

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

GENETIC COLOR	DENSITY FALL	DOLLAR SPOT SEPTEMBER	PERCENT DOLLAR SPOT MARCH	COUNTS OF NEMATODES (NUMBERS/100 CUBIC CM SOIL)				QUALITY RATINGS									
				ROOT-KNOT	RING	LANCE	SHEATH	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN	
MINI-VERDE	7.8	7.8	3.0	17.0	72.5	5.0	0.0	5	8.0	8.0	8.8	8.8	8.3	8.5	8.0	7.3	8.2
CHAMPION	7.3	7.5	3.3	29.5	60.0	0.0	2.5	5	8.0	7.8	8.0	8.5	8.0	8.3	7.3	7.5	7.9
TIFEAGLE	7.3	7.8	3.8	14.5	55.0	3.5	0.0	0	8.0	7.8	7.8	8.8	8.0	8.3	7.5	7.0	7.9
TIFDWARF	8.3	7.8	1.3	8.3	90.0	15.0	0.0	15	8.0	7.5	7.0	7.0	7.5	8.3	8.0	7.0	7.5
MS-SUPREME	6.5	6.0	6.0	2.5	55.0	5.0	0.0	5	7.8	7.3	6.5	7.5	7.5	7.5	6.5	7.8	7.3
FLORADWARF	7.0	6.8	4.8	21.8	35.0	2.5	23.8	0	7.0	6.8	5.8	7.5	7.3	7.3	6.8	6.5	6.8
TIFGREEN	8.0	5.3	1.5	2.5	127.5	15.0	0.0	10	8.0	7.8	6.8	4.8	6.5	6.8	6.3	6.8	6.7
LSD VALUE	0.8	0.8	2.7	11.2	68.1	-	16.7	-	0.3	0.8	0.8	0.7	0.7	2.0	0.8	-	0.4
C.V. (%)	7.2	18.3	50.1	55.5	54.6	240.2	250.4	151.6	2.4	6.3	7.9	7.3	6.4	13.2	7.5	15.5	3.7

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

TABLE 3A. 2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Planting date	July 1998	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during	Established from plugs only - 40 per plot	May-September (bi-monthly)	Florentine liquid	0.25 lbs. N	Roundup applied when bermuda was dormant to control poa and stray bentgrass		
FACTORS OF PLAY		once in June-Sep.	15-15-15 greens grade granular	1.25 lbs. N			
Date opened for play	1-Jun	May-September (monthly)	Ferromec (Iron)	4 oz. product	INSECTICIDES		
Date closed for play	15-Dec				Date(s)	Product	Rate (oz./M)
Type of spikes allowed	soft				None		
Uses of green	putting practice						
MOWING							
Initial height	5/32"				OTHER PRODUCTS		
Current height	5/32"				Date(s)	Product	Rate (oz./M)
Frequency	6X/week						
Type of mower	Walking and triplex				April-September	soil wetting agent	2
Rollers used	Grooved rollers only						
Groomers used							
CULTIVATION		FUNGICIDES					
Aerification - dates	22-Jun	Date(s)	Product	Rate (oz./M)			
Aerification - type	1/2" hollow tines 2 passes @ 2x2 spacing	None			NOTES/COMMENTS		
Verticutting	Light vert. - 6/5, 7/18, 8/22						
Dates of topdressing	Sand - 6/22, 7/5, 7/18, 8/22						
Other cultural practices							

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TABLE 3B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS
 IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS 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			THATCH (MM)	FALL COLOR		STIMPMETER READING			QUALITY RATINGS							
				SPRING	SUMMER	FALL	SPRING	SUMMER	FALL		SEP	OCT	JUNE	AUGUST	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
TIFEAGLE	7.0	7.0	7.3	7.0	8.3	7.7	85.0	85.0	97.3	23.3	7.3	7.3	83.0	87.3	89.3	5.7	7.0	7.7	7.0	7.0	7.3	6.3	6.9
MINI-VERDE	7.0	4.7	7.7	7.0	8.3	8.3	73.3	78.3	94.0	22.7	7.3	7.0	86.7	92.3	95.7	4.3	6.7	8.0	6.7	8.3	6.3	6.0	6.6
MS-SUPREME	6.7	6.0	7.3	6.3	7.3	8.0	76.7	88.3	95.7	20.3	6.0	6.3	81.3	81.7	80.7	4.7	6.7	7.7	6.3	7.3	7.0	4.7	6.3
TIFDWARF	6.7	6.0	7.3	7.0	8.7	7.7	48.3	68.3	99.0	22.0	5.0	5.7	81.7	87.0	90.0	3.3	7.0	8.3	8.0	6.0	5.3	4.7	6.1
TIFGREEN	7.0	5.7	6.0	4.7	6.7	7.0	66.7	68.3	69.0	18.7	7.3	7.3	87.7	87.7	85.7	4.0	4.3	6.3	5.7	6.3	8.3	7.7	6.1
FLORADWARF	5.0	5.0	5.0	4.7	5.7	5.3	78.3	95.0	67.3	15.7	4.7	4.7	72.0	77.3	80.7	6.3	4.7	5.7	6.0	4.7	6.0	5.3	5.5
CHAMPION	6.3	4.0	7.0	5.3	7.3	8.0	53.3	63.3	80.7	20.3	6.0	6.3	90.7	94.0	95.3	3.3	5.3	5.3	5.3	6.3	6.0	3.7	5.0
LSD VALUE	0.7	2.8	0.8	1.3	1.0	0.9	11.4	15.4	16.6	4.1	2.6	1.9	14.6	15.2	19.7	1.9	1.0	2.3	2.1	1.4	2.1	1.9	1.0
C.V. (%)	6.1	22.9	7.2	11.9	8.0	7.3	9.7	10.8	10.6	10.6	20.1	14.6	8.3	8.1	9.8	21.8	10.2	16.2	15.4	11.9	15.3	18.4	8.7

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 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 BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

ESTABLISHMENT		FUNGICIDES		
Planting date	29-May-98	Date(s)	Product	Rate (oz./M)
Problems during	None			
		27-Jul	Daconil WS	2
FACTORS OF PLAY		3-Aug	Alliette	4
		3-Aug	Fore (WP)	8
Date opened for play		14-Aug	Subdue Maxx	1
Date closed for play		14-Aug	Fore (WP)	8
Type of spikes allowed	Softspikes only	20-Nov	26 Chipco GT Flo.	5
Uses of green	putting, chipping, target. Heavy use PPG.			
MOWING		HERBICIDES		
Initial height	0.125"	Date(s)	Product	Rate (oz./M)
Current height	0.125"			
Frequency	7 days/week	None		
Type of mower	Triplex - GKV			
Rollers used	Groomers used approximate 4 days/week.			
Groomers used	Rollers used 1-2 times per month.	INSECTICIDES		
		Date(s)	Product	Rate (oz./M)
CULTIVATION				
Aerification - dates	3/14, 10/10	11-Jul	Merit (75 WSP)	0.19
Aerification - type	5/8" hollow tine	14-Aug	Tempo 20 WP	5 grams/1000
Verticutting	2-3 times/month depending upon thatch except Nov.-May.			
Dates of topdressing	Heavy topdressing w/USGA spec. sand on 3/14, 10/10, following aerification. Light topdressing w/#30 silica sand monthly except Nov.-Mar.	OTHER PRODUCTS		
		Date(s)	Product	Rate (oz./M)
		None		
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)	NOTES/COMMENTS		
				Overseeded with Perennial Ryegrass (Certified Blue Tag "Brightstar II & Charger II) on Oct. 18. Preparations included verticutting and scalping to .120

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 BERMUDAGRASS TEST AT MURRIETA, CA (SCGA)

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

FERTILIZATION

Date(s)	Product Name	Product Analysis	Rate (lbs./M)		
			N	P	K
17-Mar	Nutriculture	34-0-0	0.04		
17-Mar	Turf Partners	Eco-Mag			
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			

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

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

Date(s)	Product Name	Product Analysis	Rate (lbs./M)			Date(s)	Product Name	Product Analysis	Rate (lbs./M)			
			N	P	K				N	P	K	
12-May	Turf Partners	1-0-23			0.04	11-Sep	Turf Partners	1-0-23			0.07	
12-May	Turf Partners	Eco-Mag				11-Sep	Nutriculture	34-0-0	0.1			
23-May	Nutriculture	20-20-20	0.06	0.06	0.06	19-Sep	Best	10-4-16	0.62	0.25	0.99	
23-May	Turf Partners	1-0-23			0.04	1-Oct	Turf Partners	Gypsum				
23-May	Crown Tech.	FeSO4				4-Oct	Best	10-4-16	0.26	0.11	0.42	
31-May	Nutriculture	28-8-18	0.08	0.02	0.05	25-Oct	Turf Partners	0-0-34			0.1	
31-May	Nutriculture	24-0-0	0.07			25-Oct	Nutriculture	28-8-18	0.08	0.02	0.05	
14-Jun	Nutriculture	34-0-0	0.07			2-Nov	Turf Partners	Gypsum				
14-Jun	Turf Partners	1-0-23			0.14	12-Nov	K-Power	34-0-0	0.1			
14-Jun	Turf Partners	8% chelated Fe				12-Nov	Turf Partners	1-0-23			0.07	
19-Jun	Turf Partners	0-0-34			0.07	12-Nov	Crown Tech.	FeSO4				
19-Jun	Nutriculture	24-0-0	0.07			15-Nov	Turf Partners	Eco-Mag				
24-Jun	Pursell	0-0-46			1.1	15-Nov	Turf Partners	1-0-23			0.14	
10-Jul	Turf Partners	0-0-34			0.07	15-Nov	K-Power	13.75-0-46	0.04		0.13	
10-Jul	Turf Partners	7-0-0	0.1			15-Nov	Nutriculture	20-20-20	0.06	0.06	0.06	
16-Jul	Turf Partners	Gypsum				15-Nov	Crown Tech.	FeSO4				
27-Jul	Pac. Ag. & Turf	0-0-25			0.08	27-Nov	Turf Partners	0-0-34			0.07	
27-Jul	Nutriculture	24-0-0	0.1			27-Nov	Nutriculture	28-8-18	0.08	0.02	0.05	
8-Aug	Pac. Ag. & Turf	0-0-25			0.1	3-Dec	Lebenon S.G.	20-0-20	0.5		0.5	
8-Aug	Nutriculture	24-0-0	0.1			7-Dec	K-Power	13.75-0-46	0.04		0.13	
17-Aug	Turf Partners	34-0-0				7-Dec	Turf Partners	34-0-0			0.07	
19-Aug	Turf Partners	0-0-34			0.07	7-Dec	Turf Partners	1-0-0-8Ca				
19-Aug	Nutriculture	28-8-18	0.08	0.02	0.05	16-Dec	Best	10-4-16	0.4	0.16	1.62	
19-Aug	Sequestar	13% Fe				22-Dec	Nutriculture	28-8-18	0.08	0.02	0.05	
5-Sep	Turf Partners	0-0-34			0.07	22-Dec	Turf Partners	34-0-0			0.07	
5-Sep	K-Power	13.75-0-46	0.04		0.13	22-Dec	Crown Tech.	FeSO4				
5-Sep	Sequestar	13% Fe				27-Dec	Turf Partners	34-0-0			0.1	
11-Sep	Turf Partners	1-0-0-8Ca				27-Dec	Nutriculture	20-20-20	0.1	0.1	0.1	
									Total	7.53	1.89	12.09

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 BERMUDAGRASS CULTIVARS
 IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS 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 TEXTURE	PERCENT	PERCENT	STIMPMETER	READINGS	QUALITY RATINGS							MEAN
			COVER FEBRUARY	COVER MARCH	JULY	SEPTEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	
MS-SUPREME	8.0	7.7	81.7	93.3	132.3	110.0	8.0	8.0	8.0	8.0	7.7	7.7	8.0	7.9
MINI-VERDE	8.0	8.0	68.3	91.7	124.7	101.0	7.0	8.0	7.0	8.0	8.0	8.0	8.0	7.7
CHAMPION	8.0	7.7	60.0	86.7	123.3	99.7	7.0	8.0	6.7	8.0	7.3	7.3	7.3	7.4
TIFEAGLE	8.0	7.0	75.0	92.7	129.3	106.0	7.0	7.3	7.0	8.0	7.0	7.3	7.3	7.3
FLORADWARF	7.0	7.0	63.3	70.0	126.0	104.3	6.0	8.0	7.0	8.0	7.0	6.7	7.0	7.1
TIFGREEN	6.3	6.0	53.3	88.3	122.7	99.7	6.3	6.0	6.0	6.7	6.0	6.3	6.7	6.3
TIFDWARF	6.3	6.0	46.7	81.7	129.0	106.3	6.0	6.7	6.0	6.0	6.0	6.3	6.3	6.2
LSD VALUE	0.5	0.5	16.1	5.8	-	-	0.4	0.5	0.4	0.8	0.5	1.0	0.9	0.2
C.V. (%)	4.4	4.0	13.7	4.0	4.9	5.7	3.2	4.0	3.2	5.8	4.2	7.4	6.4	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 BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Planting date		Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
Problems during		Summer	14-3-14	1 lb./month	None		
		Summer	0-0-30	4 lbs./month			
FACTORS OF PLAY		Summer	Spray with Mono KP+Minors weekly				
Date opened for play					INSECTICIDES		
Date closed for play	None	Winter	0-0-30	2-4 lbs. K/month			
Type of spikes allowed	softspikes				Date(s)	Product	Rate (oz./M)
Uses of green	chipping - trap lessons		Spray Magnesium and 1-0-14 weekly Spray Mono KP+Minors+Liquid-green+Primer weekly				
MOWING					Sprayed for insects as needed		
Initial height	0.110"						
Current height	0.110"						
Frequency	7 days/week	FUNGICIDES			OTHER PRODUCTS		
Type of mower	Walk-Jacobsen	Date(s)	Product	Rate (oz./M)	Date(s)	Product	Rate (oz./M)
Rollers used	None						
Groomers used	When needed	None					
CULTIVATION					None		
Aerification - dates	4 times hollow in Summer. 2						
Aerification - type	times water injection in Winter.						
Verticutting	5 times heavy verticutting in Summer				NOTES/COMMENTS		
Dates of topdressing	Topdressed every 3 weeks in Summer and 5 times in Winter						
Other cultural practices	None						

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 BERMUDAGRASS CULTIVARS
 IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST
 AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB) 1/

2000 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	DENSITY FALL	THATCH MEASUREMENT	FALL	FALL	STOLON	STIMPETER READINGS	QUALITY RATINGS								MEAN
					COLOR SEPTEMBER	COLOR DECEMBER	COUNTS APRIL		MAR	APR	MAY	JUN	AUG	SEP	NOV	DEC	
TIFDWARF	8.7	8.0	8.3	1.7	9.0	8.7	8.7	118.3	8.3	6.7	7.7	8.0	9.0	9.0	8.0	7.3	8.0
MINI-VERDE	8.7	8.3	8.3	2.0	7.3	8.7	52.0	116.3	8.7	6.3	6.7	7.0	9.0	7.3	8.7	9.0	7.8
TIFEAGLE	8.7	7.7	8.3	2.0	8.3	8.7	53.3	113.7	8.7	6.3	7.0	6.7	8.3	8.3	8.0	9.0	7.8
FLORADWARF	8.7	8.0	8.0	1.7	7.3	8.7	37.0	112.3	9.0	6.3	7.0	6.7	8.0	7.3	7.7	8.0	7.5
TIFGREEN	8.0	7.0	6.7	1.7	7.3	8.0	44.3	117.3	7.3	7.7	8.0	8.0	7.7	7.3	8.3	6.0	7.5
CHAMPION	8.3	8.3	7.7	2.0	6.7	8.0	36.0	112.7	8.3	6.3	6.3	6.7	7.3	7.0	9.0	8.3	7.4
MS-SUPREME	8.0	7.7	6.7	2.0	7.0	8.0	71.0	109.3	8.0	6.3	7.7	7.7	7.0	7.0	8.0	7.3	7.4
LSD VALUE	-	1.4	1.7	-	1.3	1.0	-	-	1.4	1.2	1.3	1.0	0.7	1.2	1.4	0.7	0.4
C.V. (%)	6.0	7.9	10.6	20.4	8.8	5.5	78.5	6.2	7.7	8.6	8.6	7.1	5.0	8.4	7.6	5.2	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 6A. 2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

ESTABLISHMENT		FERTILIZATION				FUNGICIDES			
Planting date	8-Jun-98	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)		
Problems during	Extremely hot and dry	Granular Fertilizer Applications				None			
FACTORS OF PLAY		March	Par Ex 16-0-24	1 lb. N					
		May	Par Ex 16-0-24	1 lb. N					
Date opened for play	open every day except	June	Polyon 0-0-46	1 lb. K	HERBICIDES				
Date closed for play	Monday when club closed	June	Country club 16-4-8	1 lb. N					
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	August	Scotts 18-9-18	0.5 lb. N	None				
		September	Scotts 13-2-26	0.5 lb. N					
MOWING		October	Polyon 0-0-46	1 lb. K					
		October	Milorganite 6-2-0	1 lb. N					
Initial height		December	Polyon 0-0-32	1 lb. K	INSECTICIDES				
Current height	0.125"	Total - Granular app. 5.0 lbs. N, 3.6 lbs. P, 9.2 lbs. K							
Frequency	6 days/week					Date(s)	Product	Rate (oz./M)	
Type of mower	Toro 1000 walking unit								
Rollers used	Brush attachments used in	Foliar Fertilizer Applications				sprayed with Battle GC for cutworms in May, July and August			
Groomers used	growing season								
CULTIVATION		Every two weeks (March-Sept.) - 14 Applications							
Aerification - dates	May and September	Each Floratine app. consisted of			0.15 lb. N	OTHER PRODUCTS			
Aerification - type	Solid tine				0.08 lb. P				
Verticutting	Spike biweekly May-Sept.				0.15 lb. K	Date(s)	Product	Rate (oz./M)	
		Verticut biweekly April-Sept. (alternate with verticut program)	Total - Foliar app.	2.1 lbs. N,	1.2 lbs. P,	2.1 lbs. K	None		
Dates of topdressing	biweekly (different week from verticut) April-Sept.	Total Fertilizer app.	7.1 lbs. N,	4.8 lbs. P,	11.3 lbs. K	NOTES/COMMENTS			
		Heavy application after solid tine					Not overseeded in Fall. Used covers when temp predicted to be below 20 for excess of 24 hours		
Other cultural practices	rolling in Winter to smooth surface when not mowing								

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 BERMUDAGRASS CULTIVARS
 IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST
 AT DALLAS, TX (BENT TREE 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	QUALITY RATINGS												MEAN
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MINI-VERDE	6.0	5.3	4.7	3.0	6.0	4.3	5.7	4.7	3.0	3.7	4.7	4.0	6.0	5.7	4.0	8.0	3.3	4.8
TIFEAGLE	6.3	5.3	3.0	2.7	5.3	4.3	5.3	5.3	2.7	3.3	3.7	4.3	5.3	4.3	4.0	7.0	3.7	4.4
CHAMPION	6.3	5.3	3.3	2.3	5.3	3.7	5.0	4.7	2.3	4.3	5.0	3.7	5.3	3.7	3.0	7.3	3.0	4.3
TIFDWARF	5.0	6.3	2.7	3.7	4.0	5.3	7.0	6.0	3.7	3.0	2.7	3.0	4.0	2.7	2.0	4.7	5.3	4.1
TIFGREEN	4.0	5.3	4.7	3.7	3.3	4.7	7.3	5.7	3.7	3.3	2.0	4.3	3.3	2.0	2.0	4.0	4.3	3.9
MS-SUPREME	5.3	3.7	3.0	1.7	6.0	4.0	4.0	3.0	1.0	4.7	3.3	3.7	5.3	4.0	3.0	6.3	3.3	3.8
FLORADWARF	5.3	3.0	3.0	2.0	3.3	4.3	4.0	3.7	1.3	4.7	3.0	2.7	3.3	3.0	2.7	5.3	3.7	3.5
LSD VALUE	2.0	2.8	-	1.8	2.1	1.3	1.0	2.3	0.8	2.2	2.1	1.1	1.8	1.1	2.2	1.1	1.0	0.8
C.V. (%)	17.1	26.6	42.3	31.5	22.7	13.5	11.2	24.0	18.7	24.7	30.1	15.4	20.2	18.1	34.7	10.4	13.8	9.6

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

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

TABLE 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS
IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST
AT HOUSTON, TX (LAKESIDE COUNTRY CLUB) 1/
2000 DATA

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

NAME	GENETIC COLOR	STIMPMETER	STIMPMETER	STIMPMETER	QUALITY RATINGS												
		READINGS MAY	READINGS AUGUST	READINGS OCTOBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MINI-VERDE	4.0	107.3	95.7	113.0	6.0	7.0	6.0	4.0	5.3	7.0	6.0	6.0	5.0	6.0	5.0	5.0	5.7
CHAMPION	4.7	101.7	102.0	103.3	5.7	6.7	6.0	5.0	5.3	6.3	5.7	6.0	4.3	5.7	4.3	4.3	5.4
TIFDWARF	5.0	117.0	111.3	120.0	6.3	7.0	6.3	3.7	5.3	5.7	5.3	5.3	4.7	5.7	4.3	5.0	5.4
FLORADWARF	4.7	102.7	100.0	106.3	6.0	6.7	5.3	4.0	4.0	6.7	5.3	5.0	5.0	5.3	4.7	4.7	5.2
MS-SUPREME	5.0	110.7	108.0	106.7	5.3	6.7	6.7	3.7	5.0	6.0	5.0	5.3	4.3	5.3	4.7	4.3	5.2
TIFEAGLE	4.3	95.7	98.7	100.3	6.0	6.3	6.0	3.7	5.0	6.0	6.0	5.0	4.0	5.7	4.3	4.3	5.2
TIFGREEN	4.7	102.7	94.0	104.0	5.3	5.7	4.7	3.3	4.7	3.7	2.3	2.0	3.0	2.0	2.7	3.7	3.6
LSD VALUE	-	8.3	13.5	13.9	-	-	-	1.8	-	0.9	1.3	1.0	1.9	1.0	1.0	0.7	0.5
C.V. (%)	23.4	4.4	6.5	6.3	25.3	15.0	18.5	20.1	15.6	9.1	14.2	11.8	20.4	11.5	13.0	8.7	5.6

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

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