CONTENTS

	ESTING OF BENTGRASS AND BERMUDAGRASS CULTIVARS FOR GOLF URSE PUTTING GREENS: INTRODUCTION	1
ON-SITE P	UTTING GREEN TEST LOCATIONS	3
USGA/GCS	SAA/NTEP ON-SITE BERMUDAGRASS TEST, ENTRIES AND SPONSORS	4
Table 1A	2000 Management - On-site Bermudagrass Test at Birmingham, AL (Country Club of Birmingham)	5
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)	6
Table 2A	2000 Management - On-site Bermudagrass Test at Mobile, AL (Country Club of Mobile)	7
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)	8
Table 3A	2000 Management - On-site Bermudagrass Test at Green Valley, AZ (Country Club of Green Valley)	9
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)	10
Table 4A	2000 Management - On-site Bermudagrass Test at Murrieta, CA (SCGA Members Club)	11
Table 4B	Turfgrass Establishment Ratings of Bermudagrass Cultivars in the 1998 USGA/GCSAA/NTEP On-site Bermudagrass Test at Murrieta, CA (SCGA Members Club)	14
Table 5A	2000 Management - On-site Bermudagrass Test at Hobe Sound, FL (The Jupiter Island Club)	15
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)	16
Table 6A	2000 Management - On-site Bermudagrass Test at Dallas, TX (Bent Tree Country Club)	17

CONTENTS (Continued)

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)	18
	(Bent Tree Country Clus)	
Table 7A	2000 Management - On-site Bermudagrass Test at Houston, TX	
	(Lakeside Country Club)	19
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)	20

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 distribute 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
Bentgrass only			
Crystal Springs Golf Course Fox Hollow at Lakewood Lassing Point Golf Course North Shore Country Club Purdue University Kampen Course Snoqualmie Ridge C. C. Westchester Country Club Westwood Golf Course	Burlingame, California Lakewood, Colorado Florence, Kentucky Glenview, Illinois West Lafayette, Indiana Snoqualmie, Washington Rye, New York Vienna, Virginia	Ray Davies Bruce Nelson Jerry Coldiron Dan Dinelli Jim Scott Tom Wolff Joe Alonzi Walter Montross	Dr. Ali Harivandi, California Cooperative Extension Dr. Tony Koski, Colorado State University Dr. A. J. Powell, University of Kentucky Dr. Tom Voigt, University of Illinois Dr. Clark Throssell, Purdue University Dr. Gwen Stahnke, Washington State University Dr. James Murphy, Rutgers University Dr. David Chalmers, Virginia Tech University
Bentgrass and Bermudagrass			
Bent Tree Country Club Country Club of Birmingham Country Club of Green Valley The Missouri Bluffs SCGA Members Club	Dallas, Texas Birmingham, Alabama Green Valley, Arizona St. Charles, Missouri Murrieta, California	Keith Ihms Lee McLemore Mike Bates Mike Vogt John Martinez	Dr. Milt Engelke, Texas A&M University Dr. Elizabeth Guertal, Auburn University Dr. David Kopec, University of Arizona Dr. John Dunn, University of Missouri Dr. Robert Green, University of California-Riverside
Bermudagrass only			
Country Club of Mobile Jupiter Island Club Lakeside Country Club	Mobile, Alabama Hobe Sound, Florida Houston, Texas	Ron Wright Rob Kloska Mike Sandburg	Dr. Bryan Unruh, University of Florida Dr. John Cisar, University of Florida 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 Problems during	11-Jun-98 None	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
FACTORS OF PLAY		March, April, May June, July June, July March-November	26-0-22 (Nutralene+KNO ₃) Anderson's (22-0-22) K ₂ SO ₄ (0-0-24) 20-5-20 ProSol foliar	0.5 lb. N 0.5 lb. N 1 lb. K ₂ O 1/16 lb. N	March, May, July	Bensulide)
Date opened for play Date closed for play	July of 1998. Open year round				INSECTICIDES		
Type of spikes allowed Uses of green	softspikes chipping, bunker practice				Date(s)		Rate (oz./M)
MOWING					for cutworms, armyworms and a few mole crickets	Talstar	
Initial height	0.25"	FUNGICIDES					
Current height Frequency	0.125-0.150" 6-7 days/week	Date(s)	Product	Rate (oz./M)			
Type of mower	Toro 800 walk	Date(s)	Troduct	11410 (02./111)	OTHER PRODUCTS		
Rollers used		Fungicides are sprayed		4			
Groomers used	6-7 days/week	biweekly in summer	Banol	2	Date(s)	Product	Rate (oz./M)
CULTIVATION		depending on weather conditions. Big problem with pythium	Subdue Maxx Dithane Daconil Ultrex Heritage	4 4-8 oz. 0.4	None		
Aerfication - dates Aerification - type	5/8" hollow - June. 1/4" hollow tine- July & August. Graden - Sept. 1.	so Alliette, Banol, Subdue, and Heritage are rotated and sprayed	Consyst Terrazole	4			
Verticutting	Lightly verticut every 3	on a two weeks schedule.			NOTES/COMME	NTS	
, ordeating	weeks or so.	o di dano.			Overseeded with Poa tri temperatures dropped b		
Dates of topdressing	Heavy after aerifications, Lightly bi-weekly				of green that get the me are healthier. No disce	ost splash f rnable laye	rom bunkers r underneath.
Other cultural practices	Rolling as needed				Weekly topdressing wo	ould probal	bly be better.

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/

	GENETIC	SPRING	COLOR	FALL COLOR	FALL COLOR					OUAI	LITY RAT	INGS					
NAME	COLOR	GREENUP	MARCH	AUGUST	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 Product Rate (lbs./M) Date(s) Product Date(s) Rate (oz./M) Problems during None 1 lb. N/M, amend soil with Ca June - October 1 lb. N & 2 lbs. K None November - May 1/2 lb. N & 1 lb. K as needed. Topdress & roll until 75% slow release (Nutralene) Nitrogen smooth surface was attained 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 Type of spikes allowed softspikes Date(s) Product Rate (oz./M) Date(s) Product Rate (oz./M) Uses of green putting, chipping, July-September Delta Guard for army worms None Banol, Heritage, Terrazole for Fall, Spring **MOWING** Pythium Chipco, chlorothalonil for patch disease Initial height 0.155" Current height 0.140" 7 days/week Frequency Type of mower walking OTHER PRODUCTS Rollers used weekly in June - October Groomers used Date(s) Product Rate (oz./M) **CULTIVATION** NOTES/COMMENTS Aquafer 4 oz./K every 30 Wetting agent days 5/15 and 8/14 Aerfication - dates Lots of disease fall of 2000. Tifgreen almost gone -Aerification - type 5/8" Hollow Tines taken over by adjacent plots. High nematode populations

Other cultural practices

Dates of topdressing

Verticutting

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

Verticut lightly every other

Monday in June-Oct. & topdressed lightly on the opposite Mondays. Topdressing monthly in November to May.

on Floradwarf.

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/

			DOLLAR	PERCENT		COUNTS C	F NEMATODES										
	GENETIC	DENSITY	SPOT	DOLLAR SPO	, , ,							QT	JALITY	RATING	GS		
	COLOR	FALL	SEPTEMBER	MARCH	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 Problems during	July 1998 Established	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
1 Toblems during	from plugs only -	May-September (bi-monthly)	Florentine liquid	0.25 lbs. N	Roundup applied v	when bermuda wooa and stray bent	
FACTORS OF PLAY	40 per plot	once in June-Sep.	15-15-15 greens grade granular	1.25 lbs. N			
Date opened for play Date closed for play	1-Jun 15-Dec	May-September (monthly)	Ferromec (Iron)	4 oz. product	INSECTICIDES		
Type of spikes allowed Uses of green	soft	(montiny)			Date(s)	Product	Rate (oz./M)
MOWING	putting practice				None		
Initial height Current height Frequency	5/32" 5/32" 6X/week				OTHER PRODUCTS		
Type of mower Rollers used	Walking and triplex				Date(s)	Product	Rate (oz./M)
Groomers used	Grooved rollers only				April-September	soil wetting	2
CULTIVATION		FUNGICIDES				agent	
Aerfication - dates Aerification - type	22-Jun 1/2" hollow tines 2	Date(s)	Product	Rate (oz./M)			
Verticutting	passes @ 2x2 spacing Light vert 6/5, 7/18,	None			NOTE	S/COMMENTS	
Dates of topdressing	8/22 Sand - 6/22, 7/5, 7/18, 8/22						
Other cultural practices	0/22						

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

												FALL	FALL											
	GENE?	ric s	PRING	LEAF	DENSI	Y RATI	NGS	PERCENT	LIVING	COVER	THATCH	COLOR	COLOR	STIM	PMETER F	READING			QUA	LITY R	ATINGS			
NAME	COLO	OR GR	REENUP	TEXTURE	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	(MM)	SEP	OCT	JUNE	AUGUST	CTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
TIFEAGL	Е 7	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-VE	RDE 7	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-SUPRI	EME 6	5.7	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
TIFDWAR	F 6	5.7	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
TIFGREE	N 7	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
FLORADW	ARF 5	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
CHAMPIO	N (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 VAL	UE (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

^{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 ISD 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 Problems during	29-May-98 None	Date(s)	Product	Rate (oz./M)
FACTORS OF PLAY		27-Jul 3-Aug 3-Aug	Daconil WS Alliette Fore (WP)	2 4 8
Date opened for play Date closed for play Type of spikes allowed Uses of green	Softspikes only putting, chipping, target. Heavy use PPG.	14-Aug 14-Aug 20-Nov	Subdue Maxx Fore (WP) 26 Chipco GT Flo.	1 8 5
MOWING		HERBICIDES		
Initial height Current height	0.125" 0.125"	Date(s)	Product	Rate (oz./M)
Frequency Type of mower	7 days/week Triplex - GKV	None		
Rollers used Groomers used	Groomers used approximate 4 days/week. Rollers used 1-2 times per month.	INSECTICIDES		
CULTIVATION		Date(s)	Product	Rate (oz./M)
Aerfication - dates Aerification - type Verticutting	3/14, 10/10 5/8" hollow tine 2-3 times/month depending upon thatch except	11-Jul 14-Aug	Merit (75 WSP) Tempo 20 WP	0.19 5 grams/1000
Dates of topdressing	NovMay. Heavy topdressing w/USGA spec. sand on 3/14,	OTHER PRODUCTS		
	10/10, following aerification. Light topdressing w/#30 silica sand monthly except NovMar.	Date(s)	Product	Rate (oz./M)
Other cultural practices	Heavy brushing in Mar., Oct. Rolled for special	None		
oner cultural practices	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 nnial Ryegrass (Certified Blue parations included verticutting	

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

FERTILIZATION FERTILIZATION

Date(s)	Product	Product	R	ate (lbs./N	<i>M</i>)	Date(s)	Product	Product	R	ate (lbs./l	M)
	Name	Analysis	N	P	K		Name	Analysis	N	P	K
5-Jan	Turf Partners	7-0-0	0.02			17-Mar	Nutriculture	34-0-0	0.04		
5-Jan	Turf Partners	1-0-23			0.07	17-Mar	Turf Partners	Eco-Mag			
5-Jan	Turf Partners	7-32-6	0.02	0.1	0.02	17-Mar	Crown Tech.	FeSO4			
5-Jan	Crown Tech.	FeSO4				27-Mar	Nutriculture	28-8-18	0.08	0.02	0.05
14-Jan	Nutriculture	20-20-20	0.08	0.08	0.08	27-Mar	Turf Partners	1-0-23			0.07
14-Jan	Turf Partners	1-0-23			0.07	27-Mar	Turf Partners	7-32-6	0.02	0.1	0.02
14-Jan	Turf Partners	7-0-0	0.02			27-Mar	Crown Tech.	FeSO4			
14-Jan	Crown Tech.	FeSO4				2-Apr	Turf Partners	Gypsum			
14-Jan	Turf Partners	7-32-6	0.02	0.1	0.02	3-Apr	Turf Partners	34-0-0	0.01		
24-Jan	Turf Partners	1-0-23			0.07	3-Apr	Turf Partners	1-0-0 (8% Ca)			
24-Jan	Turf Partners	Eco-Mag				3-Apr	Turf Partners	1-0-23			0.07
24-Jan	Turf Partners	7-32-6	0.02	0.1	0.02	3-Apr	Nutriculture	28-8-18	0.08	0.02	0.05
24-Jan	Turf Partners	7-0-0	0.02			3-Apr	Nutriculture	24-0-0	0.07		
9-Feb	Best	10-4-16	0.4	0.16	1.62	14-Apr	Turf Partners	34-0-0	0.1		
22-Feb	True Green	34-0-0	0.04			14-Apr		0-0-34			0.09
22-Feb	Turf Partners	7-0-0	0.02			18-Apr	Best	18-3-18 (Polyon)	0.5	0.08	0.5
22-Feb	Turf Partners	Eco-Mag				23-Apr	Turf Partners	0-0-34			0.2
22-Feb	Crown Tech.	FeSO4				23-Apr	Nutriculture	28-8-18	0.08	0.02	0.05
1-Mar	Nutriculture	28-8-18	0.08	0.02	0.05	23-Apr	Turf Partners	Eco-Mag			
1-Mar	Turf Partners	1-0-23			0.07	23-Apr	Crown Tech.	FeSO4			
1-Mar	Turf Partners	1-0-0 (8% Ca)				26-Apr	Nutriculture	28-8-18	0.08	0.02	0.05
1-Mar	Turf Partners	7-32-6	0.02	0.1	0.02	26-Apr	Turf Partners	1-0-23			0.07
1-Mar	Turf Partners	Eco-Mag				26-Apr	Turf Partners	Eco-Mag			
1-Mar	Crown Tech.	FeSO4				26-Apr	promot	Promot			
2-Mar	Best	10-4-16	0.62	0.25	0.99	26-Apr	Crown Tech.	FeSO4			
8-Mar	Turf Partners	1-0-0 (8% Ca)				1-May	Turf Partners	34-0-0	0.07		
8-Mar	Turf Partners	1-0-23			0.07	1-May	Crown Tech.	FeSO4			
8-Mar	Turf Partners	7-32-6	0.02	0.1	0.02	7-May	Best	18-3-18 (Polyon)	0.5	0.08	0.5
8-Mar	Turf Partners	7-0-0	0.02			12-May	Nutriculture	28-8-18	0.08	0.02	0.05
17-Mar	Nutriculture	20-20-20	0.06	0.06	0.06	12-May	Crown Tech.	FeSO4			

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

Date(s)	Product	Product	R	ate (lbs./N	M)	Date(s)	Product	Product	R	ate (lbs./l	M)
, ,	Name	Analysis	N	P	K	` '	Name	Analysis	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

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

	GENETIC	LEAF	PERCENT COVER	PERŒNT COVER	STIMPMETER	READINGS			C	UALITY :	RATINGS			
NAME	COLOR	TEXTURE	FEBRUARY	MARCH	JULY	SEPTEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
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 Problems during		Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
8		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				,			
Date closed for play	None	Winter	0-0-30	2-4 lbs. K/month	INSECTICIDES		
Type of spikes allowed	softspikes						
Uses of green	chipping - trap lessons	Spray Mag	nesium and 1-	0-14 weekly	Date(s)	Product	Rate (oz./M)
		Spray Mono KF	+Minors+Liq	uid-green+Primer			
			weekly	•	Sprayed for i	nsects as nee	ded
MOWING							
Initial height	0.110"						
Current height	0.110"						
Frequency	7 days/week	FUNGICIDES					
Type of mower	Walk-Jacobsen				OTHER PRODUCTS		
Rollers used	None	Date(s)	Product	Rate (oz./M)			
Groomers used	When needed				Date(s)	Product	Rate (oz./M)
		None					
CULTIVATION					None		
A C' . 1 .							
Aerfication - dates	4 times hollow in Summer. 2						
Aerification - type	times water injection in Winter.				NOTES/COMMENTS		
Verticutting	5 times heavy verticutting in				NOTES/COMMENTS		
	Summer						
Dates of topdressing	Topdressed every 3 weeks in						
Dates of topulessing	Summer and 5 times in Winter						
	Summer and 5 times in winter						

Other cultural practices None

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 STIMPMETER READINGS MEASURED IN INCHES

	GENETIC	LEAF	DENSITY	THATCH	FALL COLOR	FALL COLOR	STOLON COUNTS	STIMPMETER	₹			QUA	LITY R	ATINGS			
NAME	COLOR	TEXTURE	FALL	MEASUREMENT	SEPTEMBER	DECEMBER	APRIL	READINGS	MAR	APR	MAY	JUN	AUG	SEP	NOV	DEC	MEAN
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 C.V. (%)	- 6.0	1.4 7.9	1.7 10.6	- 20.4	1.3 8.8	1.0 5.5	- 78.5	- 6.2	1.4	1.2	1.3	1.0	0.7 5.0	1.2	1.4 7.6	0.7 5.2	0.4
C. V. (8)	0.0	,	10.0	20.7	0.0	5.5	10.5	0.2	, • <i>i</i>	0.0	0.0	/ • ±	5.0	0.4	, . 0	J.Z	2.0

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

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

TABLE 6A. 2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

ESTABLISHMENT		FERTILIZATION			FUNGICIDES						
Planting date Problems during	8-Jun-98 Extremely	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)				
1100icinis during	hot and dry	Granula	ır Fertilizer Applicatior	ıs	None						
FACTORS OF PLAY		March May	Par Ex 16-0-24 Par Ex 16-0-24	1 lb. N 1 lb. N							
Date opened for play Date closed for play	open every day except Monday when club closed	June June	Polyon 0-0-46 Country club 16-4-8	1 lb. K 1 lb. N	HERBICIDES						
Type of spikes allowed Uses of green	Softspikes Chipping and Putting	July August	Polyon 0-0-46 Scotts 18-9-18	1 lb. K 0.5 lb. N	Date(s)	Product	Rate (oz./M)				
MOWING		September October October	Scotts 13-2-26 Polyon 0-0-46 Milorganite 6-2-0	0.5 lb. N 1 lb. K 1 lb. N	None						
Initial height Current height	0.125"	December	Polyon 0-0-32	1 lb. K	INSECTICIDES						
Frequency Type of mower Rollers used	6 days/week Toro 1000 walking unit Brush attachments used in	Total - Granular app.	5.0 lbs. N, 3.6 lbs.	P, 9.2 lbs. K	Date(s)	Product	Rate (oz./M)				
Groomers used	growing season	Foliar	Fertilizer Applications		sprayed with Battle Go	C for cutworm	ns in May, July				
CULTIVATION		Every two weeks	s (March-Sept.) - 14 Ap	pplications		C					
Aerfication - dates Aerification - type	May and September Solid tine	Each Floratine a	app. consisted of	0.15 lb. N 0.08 lb. P	OTHER PRODUCTS						
Verticutting	Spike biweekly May-Sept. Verticut biweekly April-Sept.			0.15 lb. K	Date(s)	Product	Rate (oz./M)				
	(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. l	P, 11.3 lbs. K	NOTES/COMMENTS						
Other cultural practices	Heavy application after solid tine rolling in Winter to smooth surface when not mowing				Not overseeded in Fa predicted to be below						

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/

	GENETIC	SPRING	LEAF	DENSITY	DENSITY						QUALIT	Y RATINO	SS					
NAME	COLOR	GREENUP	TEXTURE	SPRING	SUMMER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
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 ISD 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 BERMUDAGRASS TEST AT HOUSTON, TX (LAKESIDE COUNTRY CLUB)

ESTABLISHMENT		FERTILIZATION			HERBICIDES		
Planting date Problems during	16-Jun-98 None	Date(s)	Product	Rate (lbs./M)	Date(s)	Product	Rate (oz./M)
C		31-Jan	Houactonite	0.5 lb. N	5-Jun	Illoxan	1
		2/14, 2/28, 3/27,5/15	Andersons 18-6-15	0.5 lb. N			
FACTORS OF PLAY		24-Apr	Andersons 22-0-22	1.5 lb. N			
5		30-May	Andersons 18-6-15	0.75 lb. N			
Date opened for play	open year round	6/5, 8/7	Andersons 10-20-20	1.0 lb. N			
Date closed for play		12-Jun	HHI 15-4-6	1.0 lb. N	INSECTICIDES		
Type of spikes allowed	Metal spikes are banned	5-Jul	Andersons 18-4-6	1.0 lb. N			
Uses of green	Putting/Chipping/bunker	7/31, 9/11	Andersons 10-20-20	0.75 lb. N	Date(s)	Product	Rate (oz./M)
	play, etc.	10/30, 11/20, 12/4	Andersons 10-20-20	0.5 lb. N			
		8-Dec	Gypsum	8 lbs	1/24, 4/17	Dursban	2.0 lbs./A
MOWING					15-Jun	Dursban	
	0.47.40				10/5, 10/30	Dursban	1
Initial height	0.156"						
Current height	0.125"	FUNGICIDES					
Frequency	7 days/week						
Type of mower	Toro walking greens mower	Date(s)	Product	Rate (oz./M)			
Rollers used	used weekly in Summer				OTHER PRODUCTS		
Groomers used	used biweekly in Summer	1/24, 3/13	Subdue Maxx	1			
		1/24, 3/13	Daconil	2.5	Date(s)	Product	Rate (oz./M)
CULTIVATION		3-May	Fore	4.9			
		5/18, 6/5	Prostar	4.5	1/10, 3/13	Invigorate	2
Aerfication - dates	2/22 - Hydroject	5/23, 11/3, 11/17	Fore	6	1/10, 1/24, 4/17, 5/3, 5/23	Ferromec	5
Aerification - type	4/10, 9/5 - 3/8" Hollow tine	5-Oct	Subdue	1	1/10, 1/24, 3/13	Thoroughbred	0.4
	7/12 - 1" Drill & Fill	11/3, 11/17/2000	Heritage	0.4	3/13, 6/5	SeaQuential	2
Verticutting	5/22, 5/30, 6/12, 6/20, 7/3,				17-Apr	Primo	0.05
	7/17, 8/7, 8/21, 9/21				3-May	Green Lawnger	7
Dates of topdressing	Very heavy:4/10, 7/12, 9/5;						
	Dusting-heavy: 10/16;		NOTES/COMMENTS				
	Moderate: 1/10, 1/17, 1/24,						
	1/31., 2/7, 2/28, 3/20,		Overseeded on 10/16/00	with 8-10 lbs. of			
	3/27,6/7, 7/17; Light:1/3,		Poa Trivialis per	1000 sq.ft.			
	2/14, 5/8, 5/15, 6/5, 7/31,		-	•			
	8/21, 11/6, 12/4						
	, ,						
Other cultural practices	Brush green monthly						

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

	GENETIC	STIMPMETER READINGS	STIMPMETER READINGS	STIMPMETER READINGS						QUALI:	ry ratii	NGS					
NAME	COLOR	MAY	AUGUST	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.