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## **ON-SITE TESTING OF GRASSES FOR OVERSEEDING OF BERMUDAGRASS FAIRWAYS**

### **INTRODUCTION**

With the initiation of on-site testing of bentgrass and bermudagrass on putting greens, interest is now increasing for the evaluation of other grasses used on golf courses. Grasses are needed that provide exceptional playing surfaces with less pesticides, fertilizer and water. Therefore, grasses that have superior drought, cold, heat, disease and insect resistance need to be identified.

Overseeding bermudagrass fairways is a common practice throughout the southern half of the United States. Millions of pounds of seed are bought and sown each autumn on golf courses in this region. Golf course owners, managers and superintendents seek grasses that establish quickly, exhibit exceptional playability, are aesthetically pleasing and require less inputs. This project evaluates new and established cultivars on bermudagrass fairways at golf courses in the Southern and Western U.S. This on-site testing program will provide scientific information of a more applied nature about cultivars for overseeding.

Information from this project is valuable to the golfing industry because it will determine the adaptation of grasses for golf course use. 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 cultivars for overseeding in a particular regional climate.

#### **Location and Number of Trial Sites**

This evaluation trial is jointly sponsored by the Golf Course Superintendents Association of America (GCSAA), the United States Golf Association (USGA) Green Section and the National Turfgrass Evaluation Program (NTEP). 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. Ten evaluation trial sites have been established. Trials are located on active play sites where golfers hit fairway golf shots and/or drive golf carts. Host clubs provide daily maintenance of the fairway site.

#### **Trial Specifics**

The NTEP functions as the coordinating agent for the cultivar trials. These trials are two years in duration, established in fall 1999 and again in fall 2000. 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)**

This trial is conducted principally with named cultivars and commercially available blends or mixtures. Various species used in overseeding, such as perennial ryegrass and *poa trivialis* have been allowed. Experimental lines that will be released in the immediate future (i.e. before the end of the testing cycle) were also included in this trial at the sponsoring company's discretion.

The research cooperator is responsible for data collection. The following data has been collected from each trial:

1. Percent establishment rate (4-6 weeks after seeding)
2. Turfgrass quality (monthly during winter, 2 - 4 times per month during the spring and fall transition period)
3. Plot color, genetic color (twice - late fall/early winter and spring)
4. Rate or speed of transition from bermudagrass to overseeded grass in fall (2 - 4 times per month during fall)
5. Rate or speed of transition from overseeded grass to bermudagrass in spring (2 - 4 times per month during spring)
6. Environmental stress, traffic and divoting damage, disease and insect damage and other data deemed appropriate and feasible by the research cooperator.

## **Administration**

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 which constitute the entries for each trial location. The NTEP provides the 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 003, Room 217  
Beltsville, Maryland 20705 USA

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

## TRIAL LOCATIONS - ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAYS

*Sponsored by USGA, GCSAA and NTEP*

<b>Location</b>	<b>Golf Course</b>	<b>Superintendent</b>	<b>Research Cooperator</b>	<b>University/Institution</b>
Green Valley, AZ	Green Valley Country Club	Mike Bates	Dr. David Kopec	Arizona
Palm Desert, CA	Mountain Vista	Nancy Dickens	Dr. Robert Green Mike Henry Jeff Place	California-Riverside Univ. of California Coop. Ext. College of the Desert, Palm Desert, CA
Orlando, FL	Grand Cypress	Tom Alex	Dr. Al Dudeck	Florida
Duluth (Atlanta), GA	Atlanta Athletic Club	Ken Mangum	Dr. Gil Landry	Georgia
Starkville, MS	Mississippi State Univ.	Pat Sneed	Dr. Jeff Krans	Mississippi State
Crescent (St. Louis), MO	Players Club at St. Louis	Todd Marquette	Dr. Barb Corwin	Missouri
Myrtle Beach, SC	Blackmoor	Bob Zuercher	Dr. Bruce Martin	Clemson
Garland (Dallas), TX	Fire Wheel Golf Park	Gary Chambers	Dr. Milt Engelke	Texas A&M-Dallas
The Woodlands, TX (Houston)	The Woodlands	Scott Hamilton, Gant Austin	Dr. Richard White	Texas A&M-College Station
Charlottesville, VA	Glenmore Country Club	Tim Thomas	Dr. David Chalmers	Virginia Tech

**ON-SITE TESTING OF GRASSES FOR OVERSEEDING OF BERMUDAGRASS FAIRWAYS**

Entry #Name	Species or composition	Sponsor
1 Allsport	perennial ryegrass	LESCO, Inc.
2 LS-DE1	33% ProSport, 33% 6011, 33% Wilmington p. ryegrass blend	LESCO, Inc.
3 Proam	poa trivialis	LESCO, Inc.
4 Barlennium	perennial ryegrass	Barenbrug USA
5 Pirouette	perennial ryegrass	Barenbrug USA
6 Bariviera	poa trivialis	Barenbrug USA
7 Professional's Select	40% Windstar, 35% Sonata, 25% Jet p. ryegrass blend	Pennington Seed, Inc.
8 Transist	intermediate ryegrass	Pickseed West, Inc.
9 Pick HR A-97	intermediate ryegrass	Pickseed West, Inc.
10 First Cut	85% Paragon p. rye, 15% Stardust poa trivialis	Turf Merchants, Inc.
11 Brightstar II	perennial ryegrass	Turf-Seed, Inc.
12 Charger II	perennial ryegrass	Turf-Seed, Inc.
13 Citation III	perennial ryegrass	Turf-Seed, Inc.
14 Brightstar II + Winterplay	85% Brightstar II p. rye, 15% Winterplay poa trivialis	Turf-Seed, Inc.
15 Charger	perennial ryegrass	Standard Entry
16 Citation III + Winterstar	85% Citation III p. rye, 15% Winterstar poa trivialis	Turf-Seed, Inc.
17 Winterplay	poa trivialis	Standard Entry
18 ABT-99-3.268	annual ryegrass	Cebeco International Seeds
19 Paragon	perennial ryegrass	Turf Merchants, Inc.
20 Quick Trans. (ST-3BK-99)	perennial ryegrass	Pure-Seed Testing, Inc.
21 Fiesta 3	perennial ryegrass	Pickseed West, Inc.
22 Futura 2500	33% Cutter p. rye, 33% Sunshine p. rye, 33% Transist intermediate rye	Pickseed West, Inc.
23 MED-007	25% JR-151, 25% JR-142, 25% JR-128, 25% JR-265 p. ryegrass blend	Simplot Turf & Horticulture
24 Capri	perennial ryegrass	DLF Trifolium
25 Leaderboard	34% Pennant II, 33% Panther, 33% Seville II p. ryegrass blend	Independent Seeds
26 Seville II	perennial ryegrass	ProSeeds Marketing
27 Snowbird	poa trivialis	ProSeeds Marketing
28 MP58	perennial ryegrass	Jenks Seed Connection
29 Prime	33% Elfkin, 33% MP58, 33% MP88 p. ryegrass blend	Jenks Seed Connection
30 Elfkin	perennial ryegrass	Jenks Seed Connection
31 MP111	perennial ryegrass	Cascade International Seed Co.
32 Mountain View Seed Blend 1	40% Pearl, 30% Pageant II, 30% EP57 p. ryegrass blend	Mountain View Seed Co.
33 Mountain View Seed Blend 2	40% EP56, 30% Pearl, 30% Academy p. ryegrass blend	Mountain View Seed Co.
34 Mountain View Seed Blend 3	40% EP57, 30% EP56, 30% Flash p. ryegrass blend	Mountain View Seed Co.
35 Essence	perennial ryegrass	Cebeco International Seeds
36 Top Hat	perennial ryegrass	Standard Entry
37 Cebeco Blend 1	33% Top Hat, 33% R2, 33% Gator II p. ryegrass blend	Cebeco International Seeds
38 Sabre	poa trivialis	Standard Entry
39 Tourstar	34% Imagine, 33% Ice, 33% Lynx p. ryegrass blend	Budd Seed
40 Marvelgreen + Laser	40% Palmer III, 20% Prelude III, 20% Phantom p. rye, 15% Laser p	Budd Seed
41 Phantom	perennial ryegrass	ProSeeds Marketing
42 Marvelgreen Supreme	50% Palmer III, 25% Prelude III, 25% Phantom p. ryegrass blend	Budd Seed

TABLE 1A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT GREEN VALLEY, AZ (GREEN VALLEY COUNTRY CLUB)

SEEDBED PREPARATION		FERTILIZATION		
Scalped 3 directions from 5/8 to 3/8 and 2 cross vertical mowings - medium intensity.		Date(s)	Product	Rate (lbs./M)
		Oct. 00-Jan. 01 (monthly)	21-7-14	1.0 lb. N
MOWING		Feb.-May, 2001 (monthly)	16-20-0 15-0-0	1.0 lb. N
Initial height	1.0"-first 2 weeks, 3/4"-another 2 weeks.	Dec. 00-Mar. 01 (monthly)	Ferromec	4 oz. Product/M
mowing height during test	5/8" (3/8" - late April)			
Frequency	3 times per week		Total	7-8 lbs. N
Type of mower	7 gang tractor pull (gang) unit.			
		FUNGICIDES		
CULTIVATION		Date(s)	Product	Rate (oz./M)
Aerification - dates	at end of transition mid-June 2001.	None		
Aerification - type				
Verticutting		HERBICIDES		
Dates of topdressing		Date(s)	Product	Rate (oz./M)
Other cultural practices		None		
MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION				
Mowing height lowered from 5/8 to 3/8 inch in late April, 2001.		INSECTICIDES		
		Date(s)	Product	Rate (oz./M)
OTHER INFORMATION		None		
Course closed for overseeding	Yes, for 12 days	OTHER PRODUCTS		
Landing area	Yes, 3 reps spaced equally across long fairway	Date(s)	Product	Rate (oz./M)
Divoting problem	no			
Cart allowed on Test area	Yes, cart path down middle of fairways	None		
Traffic patterns	no			
		NOTES/COMMENTS		

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

TABLE 1B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT GREEN VALLEY, AZ (GREEN VALLEY COUNTRY CLUB) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2000										WINTER PERCENT COVER OF (2000)					
	BERMUDA		OVERSEED		BERMUDA		OVERSEED		BERMUDA		OVERSEED		DORMANCY	LIVING	DORMANCY	LIVING
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
	10/06	10/06	10/13	10/13	10/21	10/21	10/28	10/28	11/3	11/3	11/12/00	12/22/00	12/22/00	12/22/00	1/17/01	
ELFKIN	36.7	63.3	36.7	63.3	31.7	68.3	31.7	68.3	28.3	71.7	74.3	4.3	86.7	3.7		
TOURSTAR	36.7	63.3	45.0	55.0	33.3	66.7	31.7	68.3	28.3	71.7	72.7	5.0	86.7	2.3		
PRIME	71.7	28.3	41.7	58.3	36.7	63.3	33.3	66.7	33.3	66.7	67.7	6.0	84.7	3.7		
MOUNTAIN VIEW 2	63.3	36.7	43.3	56.7	36.7	63.3	26.7	73.3	26.7	73.3	71.7	7.7	84.0	5.3		
LEADERBOARD	53.3	46.7	40.0	60.0	26.7	73.3	23.3	76.7	23.3	76.7	75.3	7.3	85.0	12.3		
LS-DE1	60.0	40.0	41.7	58.3	40.0	60.0	26.7	73.3	31.7	68.3	72.0	11.7	81.0	6.7		
PARAGON	48.3	51.7	35.0	65.0	33.3	66.7	26.7	73.3	30.0	70.0	73.7	4.3	86.3	3.7		
TOP HAT	46.7	53.3	48.3	51.7	33.3	66.7	31.7	68.3	30.0	70.0	73.7	4.0	87.3	5.0		
BRIGHTSTAR II	66.7	33.3	41.7	58.3	36.7	63.3	33.3	66.7	33.3	66.7	71.3	8.3	82.7	4.0		
PST-3BK-99	78.3	21.7	45.0	55.0	35.0	65.0	26.7	73.3	35.0	65.0	68.7	8.3	83.7	5.3		
CITATION III	60.0	40.0	41.7	58.3	38.3	61.7	30.0	70.0	31.7	68.3	72.7	7.3	85.0	3.7		
MP58	75.0	25.0	38.3	61.7	33.3	66.7	30.0	70.0	30.0	70.0	69.7	6.7	85.3	6.7		
PIROUETTE	63.3	36.7	38.3	61.7	31.7	68.3	28.3	71.7	28.3	71.7	75.0	10.0	82.7	6.7		
SEVILLE II	53.3	46.7	41.7	58.3	35.0	65.0	33.3	66.7	26.7	73.3	71.0	9.3	80.0	3.7		
CHARGER	65.0	35.0	43.3	56.7	40.0	60.0	25.0	75.0	33.3	66.7	70.0	4.0	87.3	2.3		
FIESTA 3	35.0	65.0	40.0	60.0	38.3	61.7	31.7	68.3	36.7	63.3	69.3	6.7	84.3	6.7		
FIRST CUT	86.7	13.3	56.7	43.3	43.3	56.7	25.0	75.0	31.7	68.3	72.0	8.3	83.7	5.0		
MARVELGREEN SUPREME	75.0	25.0	51.7	48.3	31.7	68.3	25.0	75.0	28.3	71.7	73.0	8.3	82.7	8.7		
MED-007	36.7	63.3	35.0	65.0	31.7	68.3	28.3	71.7	23.3	76.7	73.7	6.7	83.3	16.7		
MOUNTAIN VIEW 3	58.3	41.7	43.3	56.7	45.0	55.0	38.3	61.7	33.3	66.7	67.7	7.7	81.7	2.3		
MP111	80.0	20.0	53.3	46.7	30.0	70.0	36.7	63.3	45.0	55.0	62.0	11.7	77.0	8.3		
ALLSPORT	48.3	51.7	45.0	55.0	38.3	61.7	28.3	71.7	26.7	73.3	73.7	10.0	81.3	6.7		
ESSENCE	26.7	73.3	38.3	61.7	30.0	70.0	33.3	66.7	25.0	75.0	75.3	7.3	84.0	5.3		
CHARGER II	48.3	51.7	41.7	58.3	30.0	70.0	33.3	66.7	26.7	73.3	73.7	6.7	88.0	7.0		
CITATION III + WINTERSTAR	81.7	18.3	53.3	46.7	53.3	46.7	33.3	66.7	38.3	61.7	61.0	8.3	83.0	7.0		
MOUNTAIN VIEW 1	56.7	43.3	45.0	55.0	38.3	61.7	28.3	71.7	36.7	63.3	70.0	8.3	85.0	2.3		
BARLENNIUM	33.3	66.7	41.7	58.3	38.3	61.7	26.7	73.3	25.0	75.0	72.0	13.3	77.7	18.3		
CEBECO BLEND 1	50.0	50.0	38.3	61.7	30.0	70.0	26.7	73.3	23.3	76.7	78.3	10.0	82.7	13.3		
FUTURA 2500	55.0	45.0	45.0	55.0	30.0	70.0	23.3	76.7	21.7	78.3	75.3	8.3	82.0	9.0		
PHANTOM	71.7	28.3	51.7	48.3	45.0	55.0	31.7	68.3	35.0	65.0	67.0	8.3	80.3	7.0		
PICK HR A-97	63.3	36.7	36.7	63.3	28.3	71.7	30.0	70.0	23.3	76.7	76.3	8.3	82.7	4.0		
BRIGHTSTAR II + WINTERPLAY	88.3	11.7	58.3	41.7	36.7	63.3	31.7	68.3	35.0	65.0	67.7	10.7	79.7	16.7		
CAPRI	86.7	13.3	58.3	41.7	51.7	48.3	30.0	70.0	28.3	71.7	68.7	4.3	87.3	2.3		
MARVELGREEN + LASER	70.0	30.0	50.0	50.0	43.3	56.7	31.7	68.3	30.0	70.0	70.0	11.0	80.7	10.3		
PROFESSIONAL'S SELECT	51.7	48.3	35.0	65.0	28.3	71.7	23.3	76.7	23.3	76.7	76.3	6.7	86.3	8.3		
TRANSIST	48.3	51.7	45.0	55.0	31.7	68.3	31.7	68.3	31.7	68.3	68.3	6.7	83.7	1.0		
ABT-99-3.268	61.7	38.3	43.3	56.7	35.0	65.0	33.3	66.7	28.3	71.7	68.7	5.7	87.3	2.3		
BARIVIERA	97.7	2.3	83.3	16.7	66.7	33.3	56.7	43.3	56.7	43.3	47.7	26.7	66.0	23.3		
PROAM	96.3	3.7	85.0	15.0	71.7	28.3	55.0	45.0	51.7	48.3	50.3	26.7	71.0	11.7		
SABRE	98.0	2.0	75.0	25.0	71.7	28.3	61.7	38.3	51.7	48.3	52.7	18.3	76.0	10.0		
SNOWBIRD	97.7	2.3	86.0	14.0	68.3	31.7	50.0	50.0	56.7	43.3	47.7	23.3	71.0	15.0		
WINTERPLAY	98.3	1.7	90.0	10.0	78.3	21.7	55.0	45.0	55.0	45.0	46.0	26.7	69.7	20.0		
LSD VALUE	16.2	16.2	13.7	13.7	10.8	10.8	14.0	14.0	9.6	9.6	6.3	10.1	10.2	18.2		
C.V. (%)	16.8	29.7	18.2	17.3	17.7	11.9	25.3	12.3	18.7	9.2	6.1	59.0	6.6	95.6		

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 1B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT GREEN VALLEY, AZ (GREEN VALLEY COUNTRY CLUB) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001													
	BERMUDA GRASS 2/2	OVERSEED GRASS 2/2	BERMUDA GRASS 3/8	OVERSEED GRASS 3/8	BERMUDA GRASS 5/17	OVERSEED GRASS 5/17	BERMUDA GRASS 5/31	OVERSEED GRASS 5/31	BERMUDA GRASS 6/12	OVERSEED GRASS 6/12	BERMUDA GRASS 7/3	OVERSEED GRASS 7/3	BERMUDA GRASS 7/23	OVERSEED GRASS 7/23
ELFKIN	3.7	96.3	5.3	90.0	3.0	96.0	18.3	76.7	43.3	48.3	61.7	25.0	82.7	0
TOURSTAR	2.3	97.7	5.0	92.0	6.7	93.0	18.3	81.7	38.3	61.7	61.0	36.7	96.0	0
PRIME	3.7	96.3	5.0	86.0	6.0	85.7	12.7	82.3	36.7	55.0	76.0	13.3	94.3	0
MOUNTAIN VIEW 2	5.3	94.7	3.7	90.0	3.3	95.0	16.7	83.3	43.3	51.7	63.3	16.7	90.0	0
LEADERBOARD	12.3	87.7	9.0	87.0	4.0	94.3	17.3	82.7	48.3	48.3	71.0	7.7	83.0	0
LS-DE1	6.7	93.3	5.7	87.3	3.3	90.7	15.0	80.0	65.0	28.3	66.7	5.0	79.7	0
PARAGON	3.7	96.3	6.7	88.0	7.0	88.0	15.0	76.7	41.7	31.7	15.0	10.0	48.3	0
TOP HAT	5.0	95.0	5.0	89.0	3.0	94.3	16.7	80.7	46.7	48.3	50.0	26.7	79.7	0
BRIGHTSTAR II	4.0	96.0	3.7	88.3	5.0	90.0	11.7	76.7	16.7	36.7	14.0	14.3	56.7	0
PST-3BK-99	5.3	94.7	5.3	88.3	3.7	89.7	13.3	71.0	26.7	38.3	33.3	21.7	73.3	0
CITATION III	3.7	96.3	4.3	91.7	3.3	93.3	18.3	71.7	36.7	28.3	20.7	7.7	51.7	0
MP58	6.7	93.3	7.7	87.3	7.7	90.7	6.0	94.0	28.3	71.0	73.3	11.7	89.3	0
PIROUETTE	6.7	93.3	6.0	88.3	3.7	93.0	18.3	76.7	36.7	46.7	31.7	21.7	75.0	0
SEVILLE II	3.7	96.3	3.7	91.7	4.0	94.3	13.3	86.7	45.0	55.0	60.0	33.3	93.7	0
CHARGER	2.3	97.7	3.3	92.0	2.7	93.7	23.3	68.3	33.3	32.7	28.3	15.0	68.3	0
FIESTA 3	6.7	93.3	5.0	90.0	3.0	92.3	8.3	81.7	30.0	44.3	12.3	12.7	46.7	0
FIRST CUT	5.0	95.0	5.3	85.0	3.3	81.3	13.3	63.3	21.7	36.7	15.0	20.0	55.0	0
MARVELGREEN SUPREME	8.7	91.3	6.0	87.3	3.3	88.3	19.3	69.0	41.7	35.0	23.3	11.7	55.0	0
MED-007	16.7	83.3	12.7	81.7	7.7	86.7	15.0	80.0	60.0	36.7	71.7	21.7	96.0	0
MOUNTAIN VIEW 3	2.3	97.7	3.0	92.0	2.7	93.7	15.0	75.0	22.7	45.0	55.3	13.3	67.3	0
MP111	8.3	91.7	8.3	83.3	6.0	80.7	10.0	88.3	40.0	51.7	45.0	30.0	78.3	0
ALLSPORT	6.7	93.3	6.0	85.7	7.3	86.3	23.3	70.7	38.3	41.7	32.7	9.0	67.7	0
ESSENCE	5.3	94.7	5.0	90.3	2.3	92.3	20.0	71.7	43.3	41.7	33.3	26.7	78.0	0
CHARGER II	7.0	93.0	6.7	83.3	6.7	82.3	3.7	71.3	21.7	40.0	15.0	11.7	68.3	0
CITATION III + WINTERSTAR	7.0	93.0	5.0	88.3	2.7	90.3	15.0	75.0	36.7	35.0	30.0	6.7	61.3	0
MOUNTAIN VIEW 1	2.3	97.7	3.0	93.3	1.7	94.7	21.7	70.7	58.3	26.7	47.7	4.0	59.7	0
BARLENNIUM	18.3	81.7	13.0	78.3	3.7	83.7	11.7	70.0	26.7	50.0	28.3	38.3	64.7	0
CEBECO BLEND 1	13.3	86.7	8.3	83.3	1.7	86.7	20.0	71.7	41.7	41.7	31.7	21.7	66.3	0
FUTURA 2500	9.0	91.0	7.7	85.0	3.7	91.3	21.7	75.0	61.7	28.3	55.0	6.7	90.7	0
PHANTOM	7.0	93.0	8.7	85.0	7.3	84.0	13.3	76.7	20.0	51.7	29.3	10.7	56.3	0
PICK HR A-97	4.0	96.0	3.3	91.0	0.7	91.0	23.3	55.0	13.3	13.3	51.7	11.7	84.7	0
BRIGHTSTAR II + WINTERPLAY	16.7	83.3	10.0	77.7	2.3	79.3	18.3	48.3	25.0	16.7	11.7	13.3	43.3	0
CAPRI	2.3	97.7	3.3	90.0	3.3	92.3	20.0	72.3	31.7	53.3	31.7	11.7	76.0	0
MARVELGREEN + LASER	10.3	89.7	7.3	83.3	2.3	86.0	11.7	63.3	18.3	36.7	20.3	8.0	45.0	0
PROFESSIONAL'S SELECT	8.3	91.7	6.7	80.0	5.0	75.0	20.0	55.0	28.3	25.0	22.3	9.3	43.0	0
TRANSIST	1.0	99.0	4.7	85.0	7.7	77.3	23.3	48.3	18.3	15.0	58.3	11.7	97.7	0
ABT-99-3.268	2.3	97.7	4.7	63.3	6.7	35.0	12.7	15.7	36.7	16.7	94.7	2.0	99.0	0
BARIVIERA	23.3	76.7	18.3	56.7	10.0	45.0	15.0	31.7	18.3	16.7	35.0	15.0	82.7	0
PROAM	11.7	88.3	13.0	58.3	11.7	33.3	5.7	21.0	8.3	8.3	15.0	8.3	75.0	0
SABRE	10.0	90.0	8.3	51.7	10.7	22.7	7.0	13.0	5.7	5.0	8.3	11.7	58.3	0
SNOWBIRD	15.0	85.0	12.7	65.0	9.3	54.0	10.0	35.0	13.3	16.7	18.3	15.0	70.0	0
WINTERPLAY	20.0	80.0	14.3	55.0	10.0	35.0	3.7	28.0	8.3	8.3	10.0	11.7	56.7	0
LSD VALUE	18.2	18.2	9.8	10.7	11.7	14.5	13.2	22.5	24.0	27.0	35.8	43.3	32.9	-
C.V. (%)	95.6	8.0	64.5	8.3	82.7	11.9	42.5	21.5	42.3	42.3	53.6	90.9	24.7	-

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
 STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).  
 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 1B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT GREEN VALLEY, AZ (GREEN VALLEY COUNTRY CLUB) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT EARLY ESTABLISHED	GENETIC COLOR	WINTER COLOR	LEAF TEXTURE		DENSITY		FALL QUALITY IN 2000					WINTER QUALITY		SPRING/SUMMER QUALITY RATINGS IN 2001							QUALITY MEAN
				WINTER	SPRING	WINTER	SPRING	10/28	11/3	11/12	12/12	12/22	12/1	1/17	1/17	2/19	3/2	4/12	5/17	6/20	7/3	
				2000	2001	2000	2001						2000	2001								
ELFKIN	66.0	6.7	6.3	7.3	7.7	7.0	7.7	6.0	6.3	7.7	6.7	7.3	7.3	7.7	7.3	6.3	8.0	7.3	7.3	5.7	6.0	6.9
TOURSTAR	63.3	6.7	6.3	6.0	6.3	6.0	6.7	6.3	6.7	7.0	6.7	7.3	7.0	7.0	6.3	5.3	8.0	7.3	7.7	5.7	6.3	6.8
PRIME	54.3	7.0	7.3	6.7	7.0	5.7	6.7	7.3	7.3	6.7	7.0	6.7	7.0	6.7	6.0	5.3	8.0	7.0	6.3	5.3	5.7	6.6
MOUNTAIN VIEW 2	57.7	7.0	6.3	5.7	6.7	5.3	6.7	6.7	6.7	6.3	7.3	6.3	7.0	6.7	6.7	5.7	8.0	6.0	7.7	5.0	4.7	6.5
LEADERBOARD	64.3	7.0	6.7	6.3	7.0	6.3	8.0	6.7	7.0	7.0	7.0	7.3	7.0	6.3	5.0	4.7	7.7	7.0	7.0	5.0	5.0	6.4
LS-DE1	58.0	8.0	7.3	6.7	7.7	6.0	7.7	7.0	7.3	6.7	5.3	6.0	6.3	6.0	6.0	5.7	8.0	8.0	6.7	5.7	5.0	6.4
PARAGON	64.3	7.3	7.0	7.7	7.0	6.0	8.3	7.0	6.7	7.3	6.7	7.0	7.3	7.0	6.3	5.7	7.7	7.7	5.3	4.7	2.7	6.4
TOP HAT	60.0	7.0	6.3	7.0	7.3	5.7	7.7	5.7	6.0	6.3	6.0	8.0	6.3	7.7	6.3	5.7	7.7	7.0	7.3	5.3	4.7	6.4
BRIGHTSTAR II	55.3	7.7	7.0	6.7	7.3	6.3	8.3	6.3	7.7	7.0	6.0	6.0	7.0	6.3	6.3	6.0	8.7	7.7	6.3	5.3	2.0	6.3
PST-3BK-99	53.7	8.0	7.3	6.0	7.3	5.3	7.7	6.3	7.0	6.7	6.3	6.0	6.7	6.3	6.0	5.7	8.3	7.7	6.3	5.3	3.7	6.3
CITATION III	57.7	8.0	7.3	6.7	8.0	5.7	7.7	7.0	7.0	7.3	6.3	7.0	7.0	6.7	5.7	5.0	7.3	7.7	6.7	4.3	2.0	6.2
MP58	56.0	7.7	7.3	6.3	7.7	5.7	8.0	7.0	6.0	6.3	6.3	6.7	6.7	6.0	5.3	5.3	8.0	7.7	6.0	5.0	5.0	6.2
PIROUETTE	60.0	6.3	6.7	7.3	7.3	6.0	7.3	6.3	7.0	7.3	5.7	6.7	6.7	6.7	5.7	5.0	7.0	7.7	6.7	5.0	3.7	6.2
SEVILLE II	59.0	7.0	7.0	6.7	7.3	6.0	6.7	7.0	7.3	5.7	5.0	5.7	5.7	6.0	6.3	5.7	7.3	6.7	6.7	5.3	7.0	6.2
CHARGER	56.7	6.0	5.7	6.3	5.7	5.7	7.0	6.0	6.0	6.0	7.0	7.0	6.7	6.7	6.0	5.3	7.7	6.3	6.7	4.7	3.0	6.1
FIESTA 3	63.7	7.7	7.0	6.3	6.0	6.3	7.7	6.7	7.0	6.7	6.3	6.3	6.7	6.0	5.7	5.0	8.0	7.3	5.7	4.7	1.7	6.0
FIRST CUT	47.0	7.3	7.0	6.3	6.7	5.7	7.0	5.7	7.3	6.3	6.0	7.0	6.3	6.3	5.7	5.3	7.3	7.3	6.0	4.7	2.3	6.0
MARVELGREEN SUPREME	54.0	7.7	7.3	6.7	7.3	5.0	7.7	6.3	6.7	6.7	6.0	6.7	6.7	6.3	5.3	4.7	7.3	7.3	6.7	4.3	2.7	6.0
MED-007	67.3	6.0	6.7	7.3	7.3	6.0	6.3	6.7	7.0	6.3	6.0	5.7	6.3	6.0	5.7	4.7	7.0	6.3	6.0	4.7	6.0	6.0
MOUNTAIN VIEW 3	53.7	7.0	6.7	6.0	7.0	6.3	7.3	6.0	7.0	6.3	5.7	6.0	6.3	6.0	5.7	4.7	6.3	7.0	7.3	5.0	4.0	6.0
MP111	50.0	8.3	8.0	6.0	7.3	5.7	8.0	7.3	7.3	6.3	5.3	5.3	6.0	5.0	4.7	4.7	8.7	7.7	6.7	5.0	4.0	6.0
ALLSPORT	60.0	7.3	7.0	6.0	6.7	5.7	6.7	6.3	7.0	6.3	6.0	6.0	6.3	6.3	6.0	5.0	6.7	6.7	6.3	4.3	2.7	5.9
ESSENCE	68.3	5.0	5.7	6.3	7.0	7.0	7.0	5.7	7.0	6.7	6.3	6.0	6.7	6.3	6.0	5.0	7.0	5.7	5.7	4.3	4.7	5.9
CHARGER II	62.0	6.0	6.0	6.7	6.7	6.0	6.0	6.0	6.3	7.0	6.0	7.0	6.7	7.0	6.0	5.0	6.7	6.0	5.7	4.0	2.3	5.8
CITATION III + WINTERSTAR	44.7	7.7	7.3	6.0	7.3	5.7	7.0	6.0	7.7	5.7	5.7	6.3	6.0	6.0	5.0	4.7	7.7	7.0	6.3	4.3	2.7	5.8
MOUNTAIN VIEW 1	58.0	6.7	6.3	6.3	7.0	6.0	7.0	5.0	6.0	7.0	6.3	6.7	7.0	6.7	6.0	4.7	6.3	6.3	5.7	4.3	3.7	5.8
BARLENNIUM	65.3	7.0	7.0	6.3	7.7	5.3	8.0	6.3	6.7	6.0	6.0	5.7	6.3	5.3	4.7	4.3	7.0	7.3	5.0	4.3	4.0	5.6
CEBECO BLEND 1	63.7	5.3	6.0	6.3	7.0	5.7	6.0	6.0	7.0	7.0	6.3	5.3	6.7	5.3	5.3	4.3	7.0	6.0	5.0	4.0	3.7	5.6
FUTURA 2500	61.7	5.7	6.0	6.7	5.3	5.3	5.7	6.3	7.0	6.3	6.0	6.7	6.3	6.0	4.7	4.0	6.7	5.0	5.0	4.0	4.3	5.6
PHANTOM	50.0	7.3	7.0	6.7	6.7	5.7	7.0	7.0	6.3	6.3	6.0	6.7	6.3	6.0	5.0	4.3	7.0	6.7	4.7	4.0	2.7	5.6
PICK HR A-97	60.7	5.0	6.0	6.3	5.0	5.7	5.3	5.3	7.0	6.3	6.3	6.3	6.7	6.0	5.3	4.3	6.0	5.3	5.7	4.0	4.3	5.6
BRIGHTSTAR II + WINTERPLAY	46.0	7.0	7.3	6.0	6.3	5.0	6.3	6.0	7.3	6.0	6.3	6.0	6.3	5.7	4.7	4.7	7.7	6.0	4.3	4.0	2.3	5.5
CAPRI	43.3	5.3	6.0	7.0	5.3	5.3	5.7	4.7	5.3	5.7	5.7	6.7	5.7	6.7	6.0	5.0	7.0	5.3	5.7	4.3	3.3	5.5
MARVELGREEN + LASER	51.3	6.3	6.7	6.7	6.3	5.7	6.3	5.3	6.3	5.7	5.7	6.0	6.0	6.0	5.7	5.0	8.0	6.0	4.7	4.3	2.0	5.5
PROFESSIONAL'S SELECT	65.7	6.0	6.0	7.0	7.0	6.0	7.3	6.0	6.7	6.7	6.0	5.7	6.3	5.7	5.3	4.3	7.0	6.0	5.0	4.0	2.3	5.5
TRANSIST	61.0	5.0	5.0	5.0	5.3	5.0	5.0	5.0	5.3	6.3	6.3	6.3	6.3	6.0	5.3	4.3	6.3	4.7	5.7	3.7	4.7	5.5
ABT-99-3.268	57.0	4.0	5.0	4.7	3.7	4.0	4.0	5.0	5.0	5.7	6.0	5.0	6.3	5.0	4.3	3.7	6.3	3.3	2.7	3.0	6.3	4.8
BARIVIERA	23.7	4.3	5.0	5.3	6.7	4.0	5.0	4.0	3.7	4.0	5.3	4.3	5.0	3.7	3.0	2.3	5.3	3.3	3.3	2.3	3.3	3.8
PROAM	23.0	4.3	5.3	4.3	7.0	4.0	6.0	4.7	4.0	4.0	4.0	4.3	4.3	4.0	3.7	3.0	5.0	4.0	2.3	2.7	2.7	3.8
SABRE	23.3	3.3	5.0	4.7	6.0	4.3	5.7	4.0	4.3	4.0	5.3	4.3	5.0	4.0	3.0	2.3	5.0	4.0	3.3	2.3	2.0	3.8
SNOWBIRD	24.3	4.3	5.3	4.3	7.3	4.3	5.7	4.3	4.0	4.0	4.3	4.3	4.7	3.7	2.7	2.7	5.7	4.0	3.3	2.7	2.3	3.8
WINTERPLAY	20.0	4.3	5.0	4.7	6.7	4.3	6.0	4.0	4.0	4.0	5.0	3.3	4.7	3.3	3.0	2.7	6.3	4.0	2.3	2.3	2.0	3.6
LSD VALUE	6.4	1.0	0.7	1.4	1.0	1.0	1.2	1.2	1.2	1.3	2.2	2.2	1.4	1.3	1.4	1.2	2.3	1.3	2.0	1.0	1.3	0.7
C.V. (%)	8.1	10.0	7.4	12.8	9.6	10.9	10.8	12.4	11.8	12.5	15.1	18.1	11.8	13.8	16.2	15.6	15.6	13.5	21.6	14.9	23.7	7.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
 STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).  
 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 2A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT PALM DESERT, CA (MOUNTAIN VISTA GOLF COURSE)

SEEDBED PREPARATION		FERTILIZATION		
Verticut three times; mowed at 0.25"; swept debris (3 times); water off 2 weeks prior to seeding; dethatching would be described as light (not very aggressive).		Date(s)	Product	Rate (lbs./M)
		10/9/00, 10/15/00	8-8-8	0.11 N
MOWING		18-Oct-00	15-15-15	0.50N
		10/24/00, 10/25/00	33-0-0	0.20 N
Initial height	3/4"	10-Nov-00	15-15-15	0.6 N
mowing height during test	7/16"	11/20/00, 12/5/00	Iron application	
Frequency	3 times per week	11/22/00, 11/28/00, 1/10/01	21-7-14	0.70 N
Type of mower	5 plex: John Deere 3235A; Jacobsen 3800	24-May-01	21-0-0	0.55 N
		30-May-01	25-3-10	0.80 N
CULTIVATION		Total	4.014 lbs. N; 1.42 lbs. P <sub>2</sub> O <sub>5</sub> ; 2.10 lbs. K	
Aerification - dates	Vertidrain with 5/8"-diam. Solid tines, 8" depth -6/1/01; aerify with 5/8" diam. Hollow tines, 2.5" depth in July, 2001.	FUNGICIDES		
Aerification - type		Date(s)	Product	Rate (oz./M)
Verticutting		None		
Dates of topdressing		None		
Other cultural practices		None		
MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION		HERBICIDES		
cutting height of fairway to 7/16" from 1/2"; Vertidrain on June 1, 2001		Date(s)	Product	Rate (oz./M)
		None		
OTHER INFORMATION		INSECTICIDES		
Course closed for overseeding	Yes, month of October	Date(s)	Product	Rate (oz./M)
Landing area		None		
Divoting problem		None		
Cart allowed on Test area	players were allowed off of cartpath on Nov. 2000	OTHER PRODUCTS		
Traffic patterns		Date(s)	Product	Rate (oz./M)
		None		
NOTES/COMMENTS		Seeded on Oct. 6, 2000. Open for play (cartpaths only) on Oct. 30		

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

TABLE 2B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING CULTIVARS IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT PALM DESERT, CA (MOUNTAIN VISTA GOLF COURSE) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2000						WINTER PERCENT COVER OF (2001)			
	BERMUDA GRASS		OVERSEED GRASS		BERMUDA GRASS		DORMANCY		LIVING	
	11/22	11/22	12/7	12/7	12/21	12/21	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
BARIENNIUM	10.0	86.7	6.7	93.0	1.7	97.7	0.0	99.0	0	99
MARVELGREEN SUPREME	16.7	80.0	10.0	90.0	0.0	99.0	0.0	99.0	0	99
MP111	15.0	78.3	6.7	93.0	1.0	97.7	0.0	99.0	0	99
PARAGON	11.7	85.0	10.0	90.0	0.0	99.0	0.0	99.0	0	99
FIRST CUT	16.7	83.3	10.0	88.3	0.0	99.0	0.0	99.0	0	99
SEVILLE II	18.3	76.7	10.0	90.0	0.7	97.7	0.0	99.0	0	99
TOURSTAR	16.7	78.3	10.0	90.0	0.0	99.0	0.0	99.0	0	99
BRIGHTSTAR II	15.0	78.3	6.7	91.3	0.0	97.7	0.0	99.0	0	99
CHARGER	13.3	76.7	10.0	90.0	0.0	99.0	0.0	99.0	0	99
FIESTA 3	20.0	76.7	10.0	88.3	0.7	97.7	0.0	99.0	0	99
PHANTOM	20.0	76.7	10.0	86.7	1.7	96.0	0.0	99.0	0	99
PIROUETTE	20.0	76.7	6.7	93.0	0.0	99.0	0.0	99.0	0	99
ALLSPORT	15.0	81.7	15.0	85.0	1.7	97.7	0.0	99.0	0	99
BRIGHTSTAR II + WINTERPLAY	16.7	70.0	16.7	80.0	2.3	96.3	1.7	97.7	0	99
CITATION III	15.0	78.3	10.0	86.7	1.7	96.3	0.0	99.0	0	99
ELFKIN	13.3	86.7	6.7	89.7	0.0	97.7	0.0	99.0	0	99
LEADERBOARD	20.0	80.0	10.0	90.0	1.7	94.7	0.0	99.0	0	99
LS-DE1	16.7	80.0	6.7	93.0	3.3	94.3	0.0	99.0	0	99
MOUNTAIN VIEW 1	20.0	80.0	8.3	91.7	0.0	99.0	0.0	99.0	0	99
MOUNTAIN VIEW 2	20.0	76.7	13.3	86.7	1.7	97.7	0.0	99.0	0	99
MOUNTAIN VIEW 3	16.7	80.0	6.7	93.0	2.3	94.7	0.0	99.0	0	99
PRIME	16.7	80.0	6.7	89.7	2.3	94.7	0.0	99.0	0	99
CHARGER II	20.0	80.0	10.0	89.7	2.3	96.3	0.0	99.0	0	99
MED-007	20.0	80.0	13.3	86.7	0.7	97.7	0.0	99.0	0	99
MP58	20.0	80.0	20.0	75.0	5.0	89.7	0.0	99.0	0	99
PST-3BK-99	21.7	75.0	10.0	90.0	0.0	99.0	0.0	99.0	0	99
CITATION III + WINTERSTAR	16.7	80.0	15.0	83.3	3.3	93.0	0.0	99.0	0	99
ESSENCE	20.0	76.7	13.3	80.0	0.0	99.0	0.0	99.0	0	99
MARVELGREEN + LASER	20.0	73.3	15.0	85.0	4.0	95.0	0.0	99.0	0	99
CEBECO BLEND 1	16.7	80.0	10.0	86.7	3.3	94.7	0.0	99.0	0	99
PROFESSIONAL'S SELECT	20.0	76.7	10.0	86.7	3.3	93.0	0.0	99.0	0	99
CAPRI	25.0	66.7	16.7	83.3	5.0	93.0	0.0	99.0	0	99
FUTURA 2500	20.0	76.7	10.0	90.0	3.3	93.0	0.0	99.0	0	99
PICK HR A-97	16.7	70.0	6.7	89.7	1.3	96.3	0.0	99.0	0	99
TOP HAT	23.3	70.0	15.0	85.0	1.7	96.3	0.0	99.0	0	99
TRANSIST	20.0	76.7	13.3	81.7	5.7	90.0	0.0	99.0	0	99
SNOWBIRD	23.3	66.7	23.3	73.3	6.7	91.7	0.0	99.0	0	99
PROAM	23.3	70.0	13.3	76.7	5.0	89.7	0.0	99.0	0	99
SABRE	16.7	70.0	10.0	76.3	5.0	89.7	0.0	99.0	0	99
WINTERPLAY	21.7	63.3	16.7	83.3	6.7	88.3	0.0	99.0	0	99
BARIVIERA	20.0	60.0	18.3	66.7	6.7	83.3	0.0	99.0	0	99
ABT-99-3.268	20.0	73.3	5.0	93.0	5.0	91.7	0.0	99.0	0	99
LSD VALUE	19.4	15.8	15.5	16.9	6.0	10.6	1.6	1.3	-	-
C.V. (%)	30.3	9.5	52.7	8.9	117.8	4.9	1122.5	0.4	-	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 2B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING CULTIVARS IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT PALM DESERT, CA (MOUNTAIN VISTA GOLF COURSE) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001									
	BERMUDA GRASS 4/12	OVERSEED GRASS 4/12	BERMUDA GRASS 5/3	OVERSEED GRASS 5/3	BERMUDA GRASS 5/29	OVERSEED GRASS 5/29	BERMUDA GRASS 6/28	OVERSEED GRASS 6/28	BERMUDA GRASS 7/26	OVERSEED GRASS 7/26
BARLENNIUM	84.7	15.0	65.0	35.0	73.3	26.7	88.3	11.7	99.0	0.0
MARVELGREEN SUPREME	84.7	15.0	60.0	40.0	76.7	23.3	92.7	7.3	98.7	0.7
MP111	81.3	18.3	70.0	30.0	80.0	20.0	88.3	11.7	99.0	0.0
PARAGON	88.0	11.7	63.3	36.7	73.3	26.7	80.0	13.3	99.0	0.0
FIRST CUT	84.7	15.0	63.3	36.7	75.0	25.0	89.0	11.0	99.0	0.0
SEVILLE II	76.3	23.3	66.7	33.3	73.3	26.7	88.3	10.0	99.0	0.0
TOURSTAR	84.7	15.0	70.0	30.0	75.0	25.0	90.0	10.0	97.7	1.7
BRIGHTSTAR II	76.3	23.3	70.0	30.0	75.0	25.0	86.7	8.3	99.0	0.0
CHARGER	84.7	15.0	63.3	36.7	78.3	21.7	91.7	8.3	99.0	0.0
FIESTA 3	79.7	20.0	66.7	33.3	73.3	26.7	89.0	9.3	99.0	0.0
PHANTOM	84.7	15.0	66.7	33.3	78.3	21.7	95.0	5.0	99.0	0.0
PIROUETTE	86.3	13.3	70.0	30.0	80.0	20.0	83.3	13.3	99.0	0.0
ALLSPORT	88.0	11.7	70.0	30.0	80.0	20.0	94.0	6.0	99.0	0.0
BRIGHTSTAR II + WINTERPLAY	92.7	6.7	66.7	33.3	80.0	20.0	81.7	16.7	99.0	0.0
CITATION III	91.0	8.3	63.3	36.7	75.0	25.0	97.0	3.0	99.0	0.0
ELFKIN	83.0	16.7	73.3	26.7	80.0	20.0	90.0	10.0	99.0	0.0
LEADERBOARD	82.7	16.7	63.3	36.7	78.3	21.7	94.0	5.7	99.0	0.0
LS-DEL	83.0	16.7	76.7	23.3	71.7	28.3	95.0	5.0	99.0	0.0
MOUNTAIN VIEW 1	86.3	13.3	66.7	33.3	78.3	21.7	90.7	9.3	97.7	1.7
MOUNTAIN VIEW 2	84.7	15.0	70.0	30.0	76.7	23.3	91.3	8.3	97.7	1.7
MOUNTAIN VIEW 3	86.3	13.3	70.0	30.0	78.3	21.7	91.7	8.3	98.7	0.7
PRIME	91.0	8.3	68.3	31.7	81.7	18.3	88.0	8.3	99.0	0.0
CHARGER II	86.3	13.3	66.7	33.3	80.0	20.0	94.3	5.7	97.7	1.7
MED-007	92.7	6.7	60.0	40.0	76.7	23.3	96.0	4.0	99.0	0.0
MP58	88.0	11.7	66.7	33.3	76.7	23.3	90.7	9.3	99.0	0.0
PST-3BK-99	83.0	16.7	60.0	40.0	80.0	20.0	91.7	8.3	99.0	0.0
CITATION III + WINTERSTAR	73.0	26.7	63.3	36.7	70.0	30.0	88.3	11.7	99.0	0.0
ESSENCE	83.0	16.7	70.0	30.0	80.0	20.0	90.0	10.0	99.0	0.0
MARVELGREEN + LASER	91.0	8.3	61.7	38.3	80.0	20.0	92.7	7.3	99.0	0.0
CEBECO BLEND 1	82.7	16.7	63.3	36.7	80.0	20.0	90.0	10.0	99.0	0.0
PROFESSIONAL'S SELECT	91.0	8.3	66.7	33.3	76.7	23.3	91.7	8.3	99.0	0.0
CAPRI	68.0	31.7	60.0	40.0	75.0	25.0	83.3	16.7	97.7	1.7
FUTURA 2500	89.3	10.0	66.7	33.3	76.7	23.3	83.3	16.7	99.0	0.0
PICK HR A-97	86.3	13.3	60.0	40.0	60.0	40.0	81.7	18.3	99.0	0.0
TOP HAT	83.0	16.7	63.3	36.7	63.3	30.0	73.3	10.0	99.0	0.0
TRANSIST	82.7	16.7	53.3	46.7	55.0	45.0	78.3	21.7	99.0	0.0
SNOWBIRD	82.7	16.7	53.3	46.7	40.0	48.3	81.7	16.7	99.0	0.0
PROAM	76.3	21.7	43.3	56.7	35.0	53.3	63.3	30.0	97.7	1.7
SABRE	82.7	16.7	50.0	50.0	28.3	56.7	48.3	40.0	99.0	0.0
WINTERPLAY	63.0	36.7	53.3	46.7	56.7	23.3	71.7	11.7	99.0	0.0
BARIVIERA	58.0	36.7	45.0	51.7	38.3	28.3	76.7	11.7	99.0	0.0
ABT-99-3.268	69.7	26.7	50.0	50.0	33.3	28.3	68.3	20.0	99.0	0.0
LSD VALUE	32.9	35.9	12.8	13.0	9.9	10.8	18.7	13.4	3.3	4.3
C.V. (%)	13.8	68.4	11.4	19.8	9.5	25.6	11.8	62.4	0.9	409.9

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 2B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING CULTIVARS IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT PALM DESERT, CA (MOUNTAIN VISTA GOLF COURSE) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT	GENETIC COLOR	WINTER COLOR	WINTER QUALITY						SPRING/SUMMER QUALITY RATINGS IN 2001						QUALITY MEAN
	EARLY ESTABLISHED			FALL QUALITY IN 2000			1/18	2/15								
	11/9/00			4/12/01	1/18/01	11/22	12/7	12/21	2001	2001	3/15	4/12	5/3	5/29	6/28	
BARLENNIUM	66.7	7.7	7.7	7.3	7.7	7.7	8.0	7.7	7.3	8.3	7.7	8.0	7.0	7.0	7.6	
MARVELGREEN SUPREME	53.3	8.0	8.0	6.7	7.3	8.3	8.0	8.0	7.0	8.0	7.7	7.3	7.0	6.7	7.5	
MP111	48.3	8.0	8.0	6.7	7.3	8.0	8.0	7.3	8.0	8.0	7.7	7.7	6.7	7.0	7.5	
PARAGON	60.0	8.0	8.3	6.7	7.0	8.0	8.3	7.7	7.7	8.3	7.7	7.3	6.7	6.7	7.5	
FIRST CUT	51.7	7.3	8.0	6.7	8.0	7.7	8.0	7.7	8.0	7.3	7.3	7.3	6.7	7.0	7.4	
SEVILLE II	55.0	8.0	8.0	7.0	7.7	8.0	7.7	7.7	7.3	8.0	7.3	7.0	6.7	6.7	7.4	
TOURSTAR	50.0	7.3	8.0	6.7	7.3	8.0	8.0	8.0	7.3	7.7	7.7	7.7	7.0	6.3	7.4	
BRIGHTSTAR II	56.7	7.7	8.3	7.3	7.7	7.7	8.3	8.0	5.7	8.0	8.0	7.3	6.0	6.3	7.3	
CHARGER	45.0	7.3	7.0	6.3	7.3	7.7	7.7	7.7	7.3	7.3	7.0	8.0	6.7	7.0	7.3	
FIESTA 3	58.3	8.0	8.0	7.0	7.3	7.7	8.0	7.3	7.3	7.7	8.0	7.0	6.0	6.7	7.3	
PHANTOM	55.0	7.7	8.0	6.7	6.7	7.7	7.7	7.3	7.3	7.7	7.7	7.7	7.0	6.7	7.3	
PIROUETTE	43.3	7.7	7.7	6.7	7.3	8.0	7.7	7.3	7.7	8.0	8.0	7.0	5.7	6.7	7.3	
ALLSPORT	63.3	7.7	8.0	6.0	7.0	7.7	7.7	7.7	7.3	7.7	7.7	7.0	6.7	6.7	7.2	
BRIGHTSTAR II + WINTERPLAY	60.0	7.0	7.7	6.7	7.3	7.3	7.7	8.0	6.7	7.7	7.3	7.3	6.3	7.0	7.2	
CITATION III	60.0	7.7	7.7	6.7	7.0	7.0	7.3	7.7	7.3	7.7	7.3	7.7	7.0	6.7	7.2	
ELFKIN	65.0	7.3	7.7	7.3	7.3	7.3	7.7	7.3	7.0	7.0	7.3	7.3	6.7	6.7	7.2	
LEADERBOARD	50.0	7.7	8.0	6.7	7.0	7.3	8.0	7.7	7.0	7.7	7.7	7.3	6.7	6.3	7.2	
LS-DEL	56.7	7.7	7.7	6.7	7.3	7.3	7.7	7.7	6.7	8.0	7.3	7.3	6.7	7.0	7.2	
MOUNTAIN VIEW 1	61.7	7.3	7.7	6.7	7.0	7.7	7.7	7.3	7.3	7.7	7.3	7.7	6.7	6.7	7.2	
MOUNTAIN VIEW 2	66.7	7.3	7.7	6.3	7.3	7.7	7.7	7.3	7.3	7.7	7.3	7.7	6.7	6.3	7.2	
MOUNTAIN VIEW 3	50.0	7.0	7.7	7.0	7.3	7.3	7.7	7.0	6.7	7.3	7.3	7.7	6.7	7.0	7.2	
PRIME	51.7	7.7	8.0	6.7	7.7	7.7	7.7	7.3	6.7	7.7	7.7	6.7	6.3	6.7	7.2	
CHARGER II	66.7	7.0	7.3	6.3	7.3	7.3	7.3	7.3	6.3	7.3	7.7	7.7	7.0	6.7	7.1	
MED-007	63.3	6.7	7.7	7.0	6.7	7.3	7.7	7.0	6.3	7.3	7.3	7.7	7.0	7.0	7.1	
MP58	46.7	8.0	8.0	6.7	6.3	7.3	8.0	8.0	7.0	7.7	7.7	6.7	6.3	6.3	7.1	
PST-3BK-99	55.0	8.0	7.7	6.3	7.0	7.7	7.7	7.7	7.0	7.7	7.0	7.0	6.3	7.0	7.1	
CITATION III + WINTERSTAR	43.3	7.0	7.7	6.7	6.7	7.3	7.7	7.7	6.0	7.7	7.7	6.7	6.7	6.7	7.0	
ESSENCE	63.3	7.0	7.3	6.3	6.0	7.3	7.7	7.3	8.0	7.3	7.3	7.0	6.0	6.7	7.0	
MARVELGREEN + LASER	61.7	6.7	7.7	6.7	6.7	6.7	7.7	7.3	7.0	7.0	7.7	6.7	7.0	6.7	7.0	
CEBECO BLEND 1	58.3	7.0	6.7	6.3	6.7	7.0	7.0	6.7	7.0	7.3	7.0	7.0	7.0	7.0	6.9	
PROFESSIONAL'S SELECT	66.7	7.7	7.3	7.0	7.0	7.0	7.0	7.0	5.7	7.7	7.0	7.3	7.0	6.7	6.9	
CAPRI	45.0	6.3	6.7	5.7	6.7	6.7	7.3	7.0	8.0	6.3	7.3	6.7	6.7	6.3	6.8	
FUTURA 2500	58.3	7.0	6.3	6.7	7.0	7.0	7.3	6.3	7.7	7.3	6.7	6.7	6.3	6.3	6.8	
PICK HR A-97	56.7	6.7	6.7	6.0	7.0	6.7	6.7	6.3	8.0	6.7	7.0	5.3	5.7	7.0	6.6	
TOP HAT	51.7	7.3	7.3	6.7	6.3	7.0	7.7	7.3	6.7	7.0	7.0	6.3	5.3	5.3	6.6	
TRANSIST	43.3	5.0	5.3	6.3	5.7	5.7	6.0	5.7	7.3	6.0	6.7	6.0	6.0	6.3	6.2	
SNOWBIRD	45.0	5.0	5.0	5.0	4.7	6.0	5.3	5.0	7.3	5.5	5.3	4.3	5.3	6.3	5.5	
PROAM	65.0	5.0	5.0	5.3	5.3	5.3	5.7	5.3	4.7	6.0	6.3	4.0	4.3	6.7	5.4	
SABRE	66.7	4.7	5.0	5.0	5.3	5.3	4.3	4.7	7.3	6.0	6.0	4.3	3.3	7.0	5.3	
WINTERPLAY	40.0	5.7	5.0	4.3	5.3	5.7	5.7	5.3	6.7	5.3	5.3	3.7	4.3	7.0	5.3	
BARIVIERA	36.7	4.7	4.7	4.7	4.3	5.7	5.0	5.0	7.7	4.3	5.3	2.7	4.3	7.0	5.1	
ABT-99-3.268	63.3	4.7	4.0	4.7	6.0	4.0	4.0	4.0	6.3	4.0	3.7	2.7	4.7	7.0	4.6	
LSD VALUE	21.9	0.8	0.7	0.9	1.3	0.9	0.9	0.9	2.9	0.8	0.8	1.2	1.6	1.8	0.5	
C.V. (%)	18.6	7.5	6.9	9.0	11.0	8.5	8.1	8.1	14.8	7.7	7.4	11.6	14.3	8.2	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 3A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT ORLANDO, FL (GRAND CYPRESS GOLF COURSE )

SEEDBED PREPARATION

Fairway was scalped from 3/8" to 1/4", blown and swept.

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
Nov. 00	5-0-15	0.5 N
Dec. 00	5-0-15	0.5 N
Jan. 01	5-0-15	0.5 N
Nov. 00	5-0-15	1 N

Liquid fertilizer applied w/irrigation throughout at minimal rates.

MOWING

Initial height 5/8"  
 mowing height during test  
 Frequency every other day  
 Type of mower Jacobson LF 100

FUNGICIDES

Date(s)	Product	Rate (oz./M)
None		

CULTIVATION

Aerification - dates  
 Aerification - type  
 Verticutting  
 Dates of topdressing  
 Other cultural practices

HERBICIDES

Date(s)	Product	Rate (oz./M)
None		

MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION

Simazine applied twice in April - 1/16 oz./1000 ft.<sup>2</sup>

INSECTICIDES

Date(s)	Product	Rate (oz./M)
None		

OTHER INFORMATION

Course closed for overseeding Yes, 1 day  
 Landing area Yes  
 Divoting problem No  
 Cart allowed on Test area Yes  
 Traffic patterns No

OTHER PRODUCTS

Date(s)	Product	Rate (oz./M)
None		

NOTES/COMMENTS

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 OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT ORLANDO, FL (GRAND CYPRESS GOLF COURSE) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2000									
	BERMUDA GRASS 11/2 (7 DAYS)	OVERSEED GRASS 11/2 (7 DAYS)	BERMUDA GRASS 11/9 (14 DAYS)	OVERSEED GRASS 11/9 (14 DAYS)	BERMUDA GRASS 11/16 (21 DAYS)	OVERSEED GRASS 11/16 (21 DAYS)	BERMUDA GRASS 11/23 (28 DAYS)	OVERSEED GRASS 11/23 (28 DAYS)	BERMUDA GRASS 11/30 (35 DAYS)	OVERSEED GRASS 11/30 (35 DAYS) */
	SNOWBIRD	72.3	14.7	60.0	30.0	29.7	50.7	15.0	79.0	6.0
BARIVIERA	72.3	14.7	60.0	30.0	27.0	39.3	15.3	71.0	8.3	84.7
PROAM	74.7	12.3	64.7	25.3	29.3	44.0	12.0	68.7	10.0	75.7
WINTERPLAY	74.7	12.3	64.7	25.3	28.0	43.0	12.3	66.7	8.3	84.7
SABRE	74.7	12.3	64.7	25.3	27.0	32.0	12.0	62.3	10.0	68.7
MARVELGREEN + LASER	60.0	27.0	36.0	54.0	24.3	70.7	11.0	88.7	5.3	97.0
FIRST CUT	60.0	27.0	36.0	54.0	24.7	70.3	11.3	88.3	6.7	93.7
LEADERBOARD	60.0	27.0	36.0	54.0	14.7	80.3	8.7	91.0	7.0	91.7
PARAGON	60.0	27.0	36.0	54.0	25.7	69.3	7.3	92.0	5.3	97.0
TOP HAT	60.0	27.0	36.0	54.0	14.0	81.0	7.7	93.7	6.7	93.7
TRANSIST	60.0	27.0	36.0	54.0	28.7	66.3	6.0	94.3	5.3	97.0
ELFKIN	60.0	27.0	36.0	54.0	14.0	81.0	9.0	90.7	5.7	95.0
CHARGER	60.0	27.0	36.0	54.0	15.3	79.7	10.7	89.0	7.0	88.0
FIESTA 3	60.0	27.0	36.0	54.0	16.0	79.0	9.0	90.7	5.7	95.0
MOUNTAIN VIEW 1	60.0	27.0	36.0	54.0	20.7	74.3	7.7	92.0	5.0	99.0
PROFESSIONAL'S SELECT	60.0	27.0	36.0	54.0	16.3	78.7	11.0	88.7	7.0	91.7
CITATION III + WINTERSTAR	60.0	27.0	36.0	54.0	22.7	72.3	7.0	92.7	5.7	95.0
MOUNTAIN VIEW 3	60.0	27.0	36.0	54.0	22.3	72.7	14.0	85.0	7.3	89.7
SEVILLE II	60.0	27.0	36.0	54.0	19.3	75.7	10.0	90.0	6.7	93.7
ALLSPORT	66.0	21.0	48.0	42.0	24.7	58.7	8.7	87.0	6.7	93.7
BARLENNIUM	60.0	27.0	36.0	54.0	22.3	72.7	9.3	90.3	5.3	97.0
CHARGER II	60.0	27.0	36.0	54.0	21.0	74.0	7.0	92.7	5.7	95.0
FUTURA 2500	60.0	27.0	36.0	54.0	19.7	75.3	14.7	85.0	8.3	84.7
MARVELGREEN SUPREME	60.0	27.0	36.0	54.0	20.0	75.0	10.3	88.7	5.7	95.0
MED-007	60.0	27.0	36.0	54.0	18.7	76.3	6.0	95.3	5.3	97.0
MOUNTAIN VIEW 2	60.0	27.0	36.0	54.0	24.0	71.0	11.7	83.3	7.0	91.7
BRIGHTSTAR II + WINTERPLAY	60.0	27.0	36.0	54.0	29.7	59.7	12.7	81.3	5.3	97.0
CEBEKO BLEND 1	60.0	27.0	36.0	54.0	11.7	83.3	6.0	94.3	5.3	97.0
TOURSTAR	60.0	27.0	36.0	54.0	20.3	74.7	8.0	92.3	5.3	97.0
BRIGHTSTAR II	60.0	27.0	36.0	54.0	30.7	64.3	10.7	89.0	5.3	97.0
ESSENCE	60.0	27.0	36.0	54.0	20.3	74.7	6.3	95.0	5.0	99.0
MP111	60.0	27.0	36.0	54.0	33.0	62.0	13.7	80.3	7.0	91.7
PHANTOM	60.0	27.0	36.0	54.0	16.3	78.7	9.0	90.7	5.7	95.0
ABT-99-3.268	60.0	27.0	36.0	54.0	18.0	77.0	5.0	97.7	5.0	99.0
CITATION III	60.0	27.0	36.0	54.0	25.3	69.7	11.0	88.7	5.7	95.0
PICK HR A-97	60.0	27.0	36.0	54.0	26.3	62.7	10.7	88.3	5.3	97.0
PRIME	60.0	27.0	36.0	54.0	21.0	74.0	13.3	85.7	5.7	95.0
CAPRI	67.7	19.3	51.0	39.0	30.7	57.7	20.3	78.7	8.3	84.7
MP58	60.0	27.0	36.0	54.0	27.3	62.0	10.7	80.3	8.7	86.3
PIRQUETTE	66.0	21.0	48.0	42.0	25.3	69.7	11.7	87.3	8.3	88.3
PST-3BK-99	60.0	27.0	36.0	54.0	32.3	62.7	10.0	84.7	7.0	91.7
LS-DE1	71.7	15.3	58.7	31.3	31.3	42.7	11.0	73.7	8.3	81.0
LSD VALUE	4.0	4.0	7.8	7.8	15.9	15.1	11.8	11.9	4.1	14.0
C.V. (%)	4.3	10.8	12.7	10.5	31.2	14.0	42.8	8.2	27.5	7.8

\*/ DAYS AFTER SEEDING.

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

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



TABLE 3B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT ORLANDO, FL (GRAND CYPRESS GOLF COURSE) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN WINTER AND SPRING/SUMMER TRANSITION PERIOD															
	OVERSEED	POA	OVERSEED	POA	OVERSEED	POA	OVERSEED	POA	OVERSEED	POA	BERMUDA	OVERSEED	POA	BERMUDA	OVERSEED	
	GRASS	ANNUA	GRASS	ANNUA	GRASS	ANNUA	GRASS	ANNUA	GRASS	ANNUA	GRASS	GRASS	ANNUA	GRASS	GRASS	
	DEC.00	IEC.00	JAN.01	JAN.01	FEB.01	FEB.01	MAR.01	MAR.01	APR.01	APR.01	MAY 01	MAY 01	MAY 01	JUN.01	JUN 01	
SNOWBIRD	68.7	24.0	58.7	37.3	66.7	28.0	68.7	27.3	83.7	10.7	7.0	55.3	0.0	34.7	65.7	
BARIVIERA	46.7	45.7	53.3	42.7	50.7	43.7	54.0	42.0	83.0	11.0	13.0	48.7	0.0	50.7	50.3	
PROAM	58.0	34.3	53.3	42.7	62.7	32.0	71.7	24.3	88.7	5.7	12.7	50.3	0.0	26.3	74.0	
WINTERPLAY	55.7	36.3	56.0	40.0	60.3	34.3	67.3	28.7	87.7	6.7	16.3	53.7	0.0	26.0	75.0	
SABRE	60.7	31.7	58.7	37.3	64.7	29.7	72.0	24.0	86.7	7.3	17.3	50.0	1.0	53.3	47.0	
MARVELGREEN + LASER	57.3	34.3	64.0	32.0	60.3	34.3	60.7	35.7	80.3	14.7	15.7	49.0	1.7	40.7	60.3	
FIRST CUT	68.7	23.7	64.0	32.0	65.0	29.7	61.7	34.3	70.0	24.3	22.7	48.7	0.0	59.7	41.3	
LEADERBOARD	66.7	25.7	64.0	32.0	64.0	30.7	61.0	35.0	66.7	27.3	41.0	35.7	6.3	74.3	26.3	
PARAGON	76.0	16.7	69.3	26.7	61.3	33.0	43.0	53.0	47.7	46.7	56.3	29.7	0.3	83.7	17.3	
TOP HAT	56.0	37.0	38.3	58.0	47.3	47.7	43.3	52.7	53.0	41.3	32.7	37.7	1.7	70.7	29.7	
TRANSIST	69.0	23.7	64.0	32.0	59.3	35.3	47.7	48.3	49.0	45.0	65.3	18.0	1.0	86.3	13.7	
ELFKIN	65.7	26.7	64.7	31.3	57.7	37.0	45.7	50.3	50.7	43.3	43.7	39.7	2.0	84.7	15.7	
CHARGER	53.7	39.0	34.7	61.3	36.7	58.0	20.7	75.3	38.7	55.7	54.0	24.3	5.3	89.7	10.7	
FIESTA 3	78.0	14.7	66.7	29.3	67.0	27.7	56.0	40.3	60.0	34.3	53.7	27.7	5.3	88.7	11.7	
MOUNTAIN VIEW 1	58.7	33.7	48.3	47.7	48.3	46.7	37.7	58.7	56.0	38.7	37.0	39.0	4.3	82.7	18.0	
PROFESSIONAL'S SELECT	70.7	21.7	59.3	36.7	58.3	36.3	45.3	50.7	52.0	42.7	54.0	30.3	3.3	89.7	10.3	
CITATION III + WINTERSTAR	49.0	43.3	38.3	57.7	44.3	50.7	42.3	54.3	67.0	27.7	17.3	51.0	0.7	34.7	66.0	
MOUNTAIN VIEW 3	63.3	29.0	50.7	45.3	50.0	45.0	35.3	60.7	50.3	44.0	48.0	29.3	8.7	89.7	10.7	
SEVILLE II	62.3	30.0	56.0	40.0	55.3	39.7	48.0	48.0	56.7	37.3	36.3	34.3	8.3	74.7	25.3	
ALLSPORT	58.7	34.0	50.7	45.3	41.7	53.3	19.7	76.7	42.7	51.3	60.7	25.3	2.7	81.0	19.3	
BARLENNIUM	65.0	28.0	44.7	51.3	48.0	46.3	32.7	63.3	36.7	57.3	51.0	30.0	3.3	86.7	13.7	
CHARGER II	62.7	30.0	45.3	50.7	48.7	46.3	35.7	60.3	53.0	41.0	47.7	22.7	7.3	81.7	18.7	
FUTURA 2500	72.0	19.7	64.0	32.0	62.7	31.7	52.3	43.7	48.7	45.3	62.3	20.7	5.0	90.3	10.3	
MARVELGREEN SUPREME	75.3	16.7	65.7	30.7	60.0	35.0	41.3	55.0	61.3	33.7	57.7	27.0	1.7	80.3	20.0	
MED-007	65.0	27.0	42.7	53.3	50.3	44.7	38.7	57.3	38.7	55.3	37.7	36.0	4.0	73.0	27.3	
MOUNTAIN VIEW 2	69.3	23.0	66.7	29.3	60.7	34.3	48.7	47.7	49.7	44.3	63.7	21.7	3.7	85.7	14.7	
BRIGHTSTAR II + WINTERPLAY	64.7	28.0	34.3	61.7	47.0	48.0	36.0	60.3	49.0	45.3	24.0	47.3	1.0	61.3	39.0	
CEBECO BLEND 1	62.7	30.0	37.3	58.7	47.0	47.7	36.3	60.0	32.3	62.3	48.7	22.3	10.7	88.3	11.7	
TOURSTAR	64.3	28.3	42.7	53.3	46.0	49.0	29.0	67.0	51.0	43.0	53.3	24.3	2.7	86.3	14.0	
BRIGHTSTAR II	53.7	38.3	36.3	60.0	45.3	49.0	41.7	54.3	60.3	33.7	31.3	42.3	4.0	52.3	47.7	
ESSENCE	76.0	16.7	49.7	46.3	55.3	39.3	37.3	58.7	43.7	51.0	55.3	27.7	3.3	92.0	8.0	
MP111	56.3	36.3	48.0	48.0	45.3	49.7	32.7	63.7	51.3	42.7	40.0	35.0	0.0	76.0	24.7	
PHANTOM	64.3	28.3	40.0	56.0	49.7	44.7	40.7	55.3	47.0	47.7	49.3	30.3	7.0	76.0	24.0	
ABT-99-3.268	66.0	26.7	68.3	28.0	56.3	38.0	41.7	54.7	57.3	37.0	53.3	22.3	9.7	79.7	20.7	
CITATION III	64.7	28.0	47.7	48.7	54.7	39.3	49.3	46.7	56.7	37.3	41.3	37.0	4.3	63.3	36.7	
PICK HR A-97	73.7	18.7	71.0	25.3	65.0	30.0	53.0	43.0	39.7	54.7	74.7	12.7	3.7	83.7	17.0	
PRIME	65.0	27.7	48.7	47.3	52.7	41.7	42.7	53.3	48.0	46.7	45.0	27.0	8.7	82.0	18.3	
CAPRI	64.3	27.7	58.7	37.3	56.3	38.7	46.0	50.3	45.0	49.0	72.0	20.0	1.7	87.0	13.0	
MP58	62.7	30.0	44.7	51.3	52.7	41.7	47.3	48.7	48.0	46.0	44.3	31.3	7.7	71.7	28.7	
PIROUETTE	56.7	36.0	40.0	56.0	43.7	51.0	32.7	63.7	36.7	57.7	48.3	26.3	4.0	70.7	29.3	
PST-3BK-99	37.0	55.3	34.7	61.3	26.7	68.0	13.0	83.7	27.0	67.0	67.0	20.3	7.0	82.7	17.7	
LS-DE1	44.0	48.0	28.3	68.0	31.0	63.7	19.0	77.3	27.3	66.7	53.3	23.3	11.3	75.0	26.0	
LSD VALUE	47.5	47.4	25.7	25.9	23.8	23.8	30.1	30.7	26.5	26.7	25.0	18.3	14.4	22.7	22.7	
C.V. (%)	23.0	48.1	25.6	30.0	21.5	27.4	35.7	30.2	28.0	38.2	34.6	32.1	125.8	19.4	50.8	

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 3B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
(CONT'D) 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT ORLANDO, FL (GRAND CYPRESS GOLF COURSE) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT EARLY ESTABLISHED	QUALITY RATINGS IN WINTER AND SPRING/SUMMER TRANSITION PERIOD (2001)							QUALITY MEAN
		DEC.00	JAN.01	FEB.01	MAR.01	APR.01	MAY 01	JUNE 01	
SNOWBIRD	65.3	6.0	7.3	5.3	6.0	7.7	7.3	7.3	6.7
BARIVIERA	55.3	5.3	7.0	5.0	5.7	7.7	7.3	8.0	6.6
PROAM	56.3	6.0	7.3	5.3	6.3	7.7	6.7	6.7	6.6
WINTERPLAY	55.0	5.7	6.7	5.3	6.0	7.7	6.7	6.3	6.3
SABRE	47.3	5.3	6.3	5.3	5.7	7.3	6.0	6.7	6.1
MARVELGREEN + LASER	79.7	6.3	6.0	4.0	4.7	6.3	7.0	7.7	6.0
FIRST CUT	79.7	6.7	6.3	3.7	4.3	6.3	7.0	7.0	5.9
LEADERBOARD	85.7	6.3	6.7	4.0	4.3	5.3	5.3	6.0	5.4
PARAGON	81.0	7.0	6.0	3.0	3.0	5.3	6.3	7.0	5.4
TOP HAT	87.7	6.0	5.3	3.0	3.3	6.0	7.0	7.3	5.4
TRANSIST	80.7	5.7	7.3	4.3	3.3	5.0	6.3	6.0	5.4
ELFKIN	86.0	6.7	6.3	3.0	3.7	5.0	5.7	6.7	5.3
CHARGER	84.7	5.7	5.7	2.7	3.0	5.3	6.7	7.3	5.2
FIESTA 3	85.0	6.7	6.3	3.7	3.7	4.3	5.3	6.3	5.2
MOUNTAIN VIEW 1	83.3	6.0	5.3	3.0	3.3	5.3	6.3	7.3	5.2
PROFESSIONAL'S SELECT	84.0	6.3	6.0	3.3	3.3	4.7	6.0	6.7	5.2
CITATION III + WINTERSTAR	82.7	5.3	5.7	3.7	4.0	5.7	5.7	5.7	5.1
MOUNTAIN VIEW 3	79.0	6.3	6.3	2.7	3.3	4.7	5.7	6.7	5.1
SEVILLE II	83.0	6.3	6.3	3.0	3.3	5.0	5.7	6.0	5.1
ALLSPORT	73.0	6.0	6.0	3.0	3.3	4.7	6.0	6.3	5.0
BARLENNIUM	81.7	6.3	6.0	3.0	3.0	4.7	6.0	6.3	5.0
CHARGER II	83.7	6.3	6.0	3.3	3.3	5.0	5.7	5.7	5.0
FUTURA 2500	80.3	6.3	6.7	3.7	3.0	4.0	5.7	6.0	5.0
MARVELGREEN SUPREME	82.3	6.0	6.3	3.3	3.0	4.7	5.7	5.7	5.0
MED-007	86.3	6.3	6.3	3.7	3.3	4.3	5.3	5.3	5.0
MOUNTAIN VIEW 2	77.3	6.3	6.0	3.3	3.3	4.3	5.7	6.0	5.0
BRIGHTSTAR II + WINTERPLAY	71.0	5.7	5.7	3.0	3.3	5.0	5.7	6.0	4.9
CEBECO BLEND 1	89.0	6.0	6.0	3.0	3.0	4.0	5.7	6.3	4.9
TOURSTAR	83.7	6.0	6.0	2.7	3.0	4.7	5.7	6.3	4.9
BRIGHTSTAR II	77.0	5.7	5.3	3.0	3.0	5.0	5.7	5.7	4.8
ESSENCE	85.0	6.0	6.0	3.0	3.0	4.0	5.7	5.7	4.8
MP111	71.3	5.3	5.0	2.7	3.0	4.7	6.0	6.7	4.8
PHANTOM	85.0	6.0	5.7	3.3	3.0	4.3	5.3	5.3	4.7
ABT-99-3.268	87.7	6.7	8.0	4.3	3.3	3.3	3.3	3.0	4.6
CITATION III	79.3	5.7	5.3	3.3	3.7	4.7	4.7	5.0	4.6
PICK HR A-97	76.0	6.3	7.0	4.3	3.7	3.3	3.7	3.3	4.5
PRIME	80.3	5.7	5.7	3.0	3.0	4.0	4.7	5.0	4.4
CAPRI	68.3	5.3	6.0	3.0	3.0	4.0	4.7	4.0	4.3
MP58	71.3	5.3	5.3	3.0	2.7	4.0	4.7	5.3	4.3
PIROUETTE	79.0	5.0	5.0	2.7	2.7	4.3	4.7	5.0	4.2
PST-3BK-99	74.0	5.0	5.0	2.0	2.3	3.7	4.7	4.7	3.9
LS-DE1	58.7	4.3	4.7	2.0	2.3	3.0	4.0	4.3	3.5
LSD VALUE	12.0	1.3	1.0	1.0	1.1	1.1	1.5	1.8	0.7
C.V. (%)	9.8	11.0	10.3	18.7	20.1	14.3	15.2	17.0	8.9

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

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

TABLE 4A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT DULUTH (ATLANTA), GA (ATLANTA ATHLETIC CLUB)

SEEDBED PREPARATION		FERTILIZATION		
Scalped at 0.25" and handraked. After seeding, brushed with push brooms in two directions.		Date(s)	Product	Rate (lbs./M)
		1 week after seeding	19-19-19	0.25 lb. N
		23-Apr-01	19-19-19	1.5 lb. N
		5-Jun-01	42-0-0 (multicote)	1 lb. N
MOWING		FUNGICIDES		
Initial height	0.25"	Date(s)	Product	Rate (oz./M)
mowing height during test	7/16"	None		
Frequency	3-4 times per week	HERBICIDES		
Type of mower	JD 3235 Reel	Date(s)	Product	Rate (oz./M)
CULTIVATION		None		
Aerification - dates	22-Jul-01	HERBICIDES		
Aerification - type	3/4" solid	Date(s)	Product	Rate (oz./M)
Verticutting		None		
Dates of topdressing		INSECTICIDES		
Other cultural practices		Date(s)	Product	Rate (oz./M)
MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION		None		
Solid tine (3/4") on July 22		OTHER PRODUCTS		
		Date(s)	Product	Rate (oz./M)
OTHER INFORMATION		None		
Course closed for overseeding	Yes, for 1 day	NOTES/COMMENTS		
Landing area	Yes	Different types of Bermudagrass affected overseeding establishment.		
Divoting problem	No			
Cart allowed on Test area	No carts until Bermuda greenup			
Traffic patterns	No			

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TABLE 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT DULUTH (ATLANTA), GA (ATLANTA ATHLETIC CLUB) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2000						WINTER PERCENT COVER OF (2001)			
	BERMUDA GRASS		OVERSEED GRASS		BERMUDA GRASS		DORMANCY	LIVING	DORMANCY	LIVING
	10/10	10/10	11/11	11/11	12/4	12/4	BERMUDA GRASS 1/21	OVERSEED GRASS 1/21	BERMUDA GRASS 2/21	OVERSEED GRASS 2/21
TOP HAT	63.3	36.7	53.3	46.7	41.7	58.3	23.3	76.7	11.7	88.3
FIESTA 3	66.7	33.3	60.0	40.0	45.0	55.0	30.0	70.0	15.0	85.0
BRIGHTSTAR II	68.3	31.7	58.3	41.7	45.0	55.0	35.0	65.0	21.7	78.3
CEBECO BLEND 1	63.3	36.7	58.3	41.7	50.0	50.0	36.7	63.3	21.7	78.3
CHARGER II	61.7	38.3	55.0	45.0	43.3	56.7	33.3	66.7	16.7	83.3
PIROJETTE	73.3	26.7	66.7	33.3	51.7	48.3	35.0	65.0	23.3	76.7
TOURSTAR	63.3	36.7	56.7	43.3	41.7	58.3	33.3	66.7	20.0	80.0
MARVELGREEN SUPREME	75.0	25.0	65.0	35.0	43.3	56.7	30.0	70.0	16.7	83.3
MED-007	71.7	28.3	66.7	33.3	51.7	48.3	40.0	60.0	25.0	75.0
MOUNTAIN VIEW 3	71.7	28.3	61.7	38.3	50.0	50.0	40.0	60.0	23.3	76.7
CHARGER	68.3	31.7	56.7	43.3	48.3	51.7	28.3	65.0	20.0	80.0
BARIENNIUM	68.3	31.7	63.3	36.7	48.3	51.7	30.0	70.0	20.0	80.0
FIRST CUT	75.0	25.0	63.3	36.7	45.0	55.0	35.0	65.0	21.7	78.3
ELFKIN	66.7	31.7	65.0	35.0	53.3	46.7	40.0	60.0	23.3	76.7
ESSENCE	68.3	31.7	61.7	38.3	56.7	43.3	43.3	56.7	23.3	76.7
MOUNTAIN VIEW 2	71.7	28.3	66.7	33.3	53.3	46.7	40.0	60.0	28.3	71.7
MP58	71.7	25.0	71.7	28.3	53.3	46.7	45.0	55.0	30.0	70.0
CITATION III + WINTERSTAR	73.3	26.7	63.3	36.7	50.0	50.0	38.3	61.7	26.7	73.3
PHANTOM	81.7	18.3	73.3	26.7	56.7	43.3	38.3	61.7	25.0	75.0
SEVILLE II	76.7	23.3	70.0	30.0	50.0	50.0	38.3	61.7	26.7	73.3
MOUNTAIN VIEW 1	71.7	28.3	66.7	33.3	51.7	48.3	41.7	58.3	28.3	71.7
ALLSPORT	71.7	28.3	65.0	35.0	53.3	46.7	41.7	58.3	28.3	71.7
FUTURA 2500	71.7	28.3	66.7	33.3	61.7	38.3	46.7	53.3	35.0	65.0
LS-DE1	81.7	18.3	73.3	26.7	58.3	41.7	46.7	53.3	26.7	70.0
PROFESSIONAL'S SELECT	73.3	26.7	68.3	31.7	58.3	41.7	41.7	58.3	25.0	75.0
CITATION III	75.0	25.0	65.0	35.0	41.7	58.3	31.7	68.3	21.7	78.3
LEADERBOARD	80.0	20.0	75.0	25.0	63.3	36.7	51.7	48.3	35.0	65.0
PST-3BK-99	70.0	30.0	65.0	35.0	51.7	48.3	40.0	60.0	28.3	71.7
MP111	75.0	21.7	75.0	25.0	68.3	31.7	50.0	50.0	43.3	58.3
PRIME	76.7	21.7	66.7	26.7	66.7	33.3	55.0	45.0	36.7	63.3
ABT-99-3.268	65.0	35.0	63.3	36.7	56.7	43.3	38.3	61.7	23.3	76.7
BRIGHTSTAR II + WINTERPLAY	81.7	18.3	60.0	40.0	40.0	60.0	33.3	66.7	20.0	80.0
PARAGON	73.3	26.7	70.0	30.0	56.7	43.3	41.7	58.3	25.0	75.0
SNOWBIRD	86.7	13.3	81.7	18.3	71.7	28.3	56.7	43.3	41.7	58.3
CAPRI	78.3	21.7	71.7	28.3	66.7	33.3	58.3	41.7	41.7	58.3
MARVELGREEN + LASER	75.0	25.0	70.0	30.0	66.7	33.3	50.0	50.0	38.3	61.7
TRANSIST	75.0	21.7	73.3	26.7	70.0	30.0	60.0	40.0	40.0	60.0
BARIVIERA	86.7	13.3	83.3	16.7	75.0	25.0	48.3	38.3	45.0	55.0
WINTERPLAY	88.3	11.7	73.3	26.7	58.3	41.7	43.3	56.7	35.0	65.0
PICK HR A-97	66.7	30.0	66.7	33.3	58.3	41.7	41.7	58.3	23.3	76.7
SABRE	85.0	15.0	80.0	20.0	71.7	28.3	58.3	41.7	46.7	53.3
PROAM	90.0	10.0	83.3	16.7	75.0	25.0	60.0	40.0	45.0	55.0
LSD VALUE	9.6	9.9	16.2	16.4	26.8	26.8	28.6	26.4	18.0	17.9
C.V. (%)	7.9	23.2	12.4	25.7	22.3	27.5	29.2	20.7	34.4	13.3

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

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

TABLE 4B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT DULUTH (ATLANTA), GA (ATLANTA ATHLETIC CLUB) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001													
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	3/13	3/13	4/16	4/16	5/11	5/11	5/18	5/18	6/13	6/13	6/26	6/26	7/10	7/10
TOP HAT	3.3	96.3	1.7	97.7	66.7	33.3	71.7	28.3	73.3	16.7	75.0	10.0	85.0	1.7
FIESTA 3	6.7	93.0	3.3	96.0	51.7	48.3	58.3	41.7	66.7	33.3	65.0	13.3	83.3	5.0
BRIGHTSTAR II	11.7	88.3	5.0	94.7	41.7	56.7	50.0	48.3	55.0	41.7	56.7	18.3	68.3	11.7
CEBECO BLEND 1	8.3	91.7	6.7	93.3	46.7	48.3	51.7	41.7	56.7	36.7	60.0	18.3	80.0	8.3
CHARGER II	8.3	91.3	3.3	96.3	51.7	48.3	56.7	38.3	61.7	28.3	65.0	13.3	81.7	6.7
PIROUETTE	10.0	90.0	5.0	94.7	28.3	71.7	36.7	61.7	43.3	50.0	48.3	23.3	70.0	11.7
TOURSTAR	8.3	91.7	5.0	94.7	60.0	40.0	66.7	33.3	66.7	23.3	70.0	8.3	85.0	5.0
MARVELGREEN SUPREME	3.3	96.3	0.0	99.0	48.3	45.0	51.7	45.0	56.7	40.0	58.3	18.3	86.7	6.7
MED-007	13.3	86.7	5.0	94.7	21.7	76.7	30.0	68.3	38.3	56.7	43.3	23.3	58.3	21.7
MOUNTAIN VIEW 3	10.0	90.0	3.3	96.3	56.7	43.3	58.3	41.7	61.7	23.3	63.3	16.7	81.7	3.3
CHARGER	8.3	91.3	6.7	92.7	25.0	66.7	38.3	50.0	48.3	38.3	53.3	16.7	71.7	8.3
BARLENNIUM	8.3	91.7	5.0	95.0	40.0	46.7	51.7	31.7	66.7	21.7	68.3	11.7	83.3	5.0
FIRST CUT	13.3	86.7	6.7	93.0	46.7	43.3	53.3	40.0	60.0	35.0	61.7	13.3	76.7	10.0
ELFKIN	10.0	89.7	6.7	93.0	36.7	56.7	45.0	45.0	51.7	40.0	55.0	23.3	66.7	15.0
ESSENCE	11.7	88.3	6.7	93.0	31.7	63.3	41.7	46.7	46.7	40.0	56.7	10.0	76.7	10.0
MOUNTAIN VIEW 2	15.0	85.0	8.3	91.7	38.3	60.0	41.7	55.0	50.0	43.3	51.7	15.0	71.7	10.0
MP58	16.7	83.3	10.0	89.3	53.3	38.3	58.3	31.7	61.7	31.7	65.0	13.3	73.3	10.0
CITATION III + WINTERSTAR	13.3	86.7	5.0	91.7	45.0	51.7	55.0	38.3	56.7	35.0	58.3	11.7	73.3	8.3
PHANTOM	13.3	86.7	6.7	93.0	31.7	58.3	41.7	50.0	50.0	38.3	51.7	16.7	70.0	13.3
SEVILLE II	15.0	85.0	8.3	91.3	36.7	55.0	43.3	43.3	48.3	43.3	51.7	25.0	66.7	13.3
MOUNTAIN VIEW 1	15.0	85.0	6.7	93.0	40.0	53.3	41.7	51.7	46.7	46.7	50.0	25.0	68.3	15.0
ALLSPORT	13.3	86.7	5.0	95.0	35.0	48.3	38.3	38.3	50.0	33.3	53.3	20.0	76.7	11.7
FUTURA 2500	16.7	83.3	13.3	86.7	40.0	53.3	50.0	40.0	60.0	14.7	63.3	11.7	75.0	11.7
LS-DE1	16.7	83.3	8.3	91.3	28.3	58.3	36.7	50.0	45.0	48.3	46.7	28.3	70.0	15.0
PROFESSIONAL'S SELECT	13.3	86.7	8.3	91.3	33.3	46.7	40.0	38.3	51.7	41.7	53.3	25.0	70.0	16.7
CITATION III	11.7	88.3	11.7	88.0	28.3	51.7	36.7	33.3	41.7	43.3	43.3	23.3	63.3	18.3
LEADERBOARD	20.0	80.0	13.3	86.7	23.3	58.3	35.0	51.7	38.3	55.0	38.3	38.3	53.3	28.3
PST-3BK-99	18.3	81.7	20.0	80.0	65.0	11.7	70.0	10.0	78.3	8.3	81.7	6.7	86.7	1.7
MP111	26.7	73.3	15.0	85.0	33.3	51.7	45.0	43.3	51.7	45.0	51.7	20.0	61.7	18.3
PRIME	23.3	76.7	13.3	86.3	41.7	45.0	48.3	33.3	58.3	31.7	61.7	15.0	71.7	15.0
ABT-99-3.268	10.0	86.7	36.7	63.3	73.3	3.3	83.3	3.3	88.3	28.3	96.0	1.7	97.7	0.0
BRIGHTSTAR II + WINTERPLAY	11.7	88.0	6.7	93.3	23.3	56.7	33.3	41.7	40.0	48.3	43.3	21.7	65.0	15.0
PARAGON	13.3	86.7	8.3	91.7	30.0	50.0	36.7	38.3	43.3	45.0	43.3	21.7	60.0	20.0
SNOWBIRD	30.0	70.0	25.0	75.0	45.0	30.0	58.3	30.0	71.7	13.3	78.3	8.3	96.3	0.0
CAPRI	21.7	78.3	16.7	83.3	23.3	56.7	35.0	48.3	41.7	41.7	53.3	18.3	81.7	5.0
MARVELGREEN + LASER	18.3	81.7	15.0	85.0	35.0	45.0	45.0	33.3	51.7	36.7	51.7	15.0	63.3	15.0
TRANSIST	25.0	75.0	23.3	76.7	50.0	15.0	65.0	3.3	83.3	3.3	88.3	3.3	96.0	0.0
BARIVIERA	38.3	61.7	36.7	63.3	61.7	21.7	71.7	16.7	76.7	13.3	83.3	3.3	93.3	0.0
WINTERPLAY	23.3	76.7	23.3	76.7	38.3	45.0	51.7	33.3	61.7	25.0	63.3	6.7	78.3	1.7
PICK HR A-97	15.0	85.0	13.3	86.3	48.3	16.7	61.7	13.3	80.0	5.0	86.3	6.7	93.3	0.0
SABRE	38.3	61.7	33.3	66.7	40.0	45.0	51.7	30.0	53.3	35.0	58.3	10.0	83.3	0.0
PROAM	38.3	61.7	30.0	70.0	36.7	35.0	51.7	18.3	58.3	25.0	63.3	8.3	86.7	0.0
LSD VALUE	12.0	11.9	12.0	11.7	38.9	33.6	36.6	35.1	29.1	39.8	26.1	21.3	21.4	14.7
C.V. (%)	45.7	8.5	63.3	8.2	40.2	37.4	32.1	45.1	25.7	51.9	23.4	61.7	15.2	82.3

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 4B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 (CONT'D) 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT DULUTH (ATLANTA), GA (ATLANTA ATHLETIC CLUB) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR 3/13/01	WINTER QUALITY 2/21 2001	SPRING/SUMMER QUALITY RATINGS IN 2001						QUALITY MEAN
			3/13	4/16	5/11	5/18	6/26	7/10	
TOP HAT	7.3	6.0	7.0	8.3	8.3	8.0	5.3	5.7	7.0
FIESTA 3	9.0	5.7	7.3	8.7	8.0	8.0	5.3	5.3	6.9
BRIGHTSTAR II	9.0	5.3	6.7	8.7	8.3	8.3	5.3	4.7	6.8
CEBECO BLEND 1	8.0	5.7	6.3	8.3	8.3	7.7	5.7	5.3	6.8
CHARGER II	8.3	5.7	7.0	8.3	8.0	7.3	6.0	5.3	6.8
PIROUETTE	7.7	5.7	6.7	8.3	8.3	8.0	5.0	4.7	6.7
TOURSTAR	8.3	6.0	7.0	7.7	8.0	8.0	5.3	5.0	6.7
MARVELGREEN SUPREME	8.7	5.3	6.7	9.0	8.3	7.0	5.0	4.7	6.6
MED-007	8.7	5.0	6.3	8.7	8.3	8.3	5.0	4.3	6.6
MOUNTAIN VIEW 3	8.3	5.0	6.0	8.3	8.3	8.0	5.3	5.3	6.6
CHARGER	7.7	5.7	7.3	7.7	7.7	7.0	5.0	5.0	6.5
BARLENNIUM	8.7	5.3	7.0	8.7	7.0	6.3	5.3	5.3	6.4
FIRST CUT	8.3	5.3	6.3	7.7	8.0	7.7	5.0	4.7	6.4
ELFKIN	8.0	5.0	7.0	7.7	7.0	7.0	5.3	5.0	6.3
ESSENCE	7.3	5.0	6.3	8.0	8.0	7.0	4.7	5.0	6.3
MOUNTAIN VIEW 2	8.7	5.3	6.3	8.0	8.3	7.3	4.3	4.7	6.3
MP58	9.0	5.0	6.0	7.7	7.3	7.0	6.0	5.0	6.3
CITATION III + WINTERSTAR	8.0	5.3	6.3	7.7	7.7	7.0	5.0	4.3	6.2
PHANTOM	8.7	4.7	6.3	8.3	8.0	7.7	4.3	4.0	6.2
SEVILLE II	8.7	5.0	6.0	8.0	7.3	7.0	5.3	4.7	6.2
MOUNTAIN VIEW 1	8.7	4.7	6.0	8.3	7.3	7.0	4.7	5.0	6.1
ALLSPORT	8.7	5.0	6.0	8.0	7.0	6.3	5.0	4.7	6.0
FUTURA 2500	8.3	5.0	6.0	7.3	6.7	7.0	5.0	5.3	6.0
LS-DEL	9.0	5.0	5.7	7.7	7.0	7.0	5.3	4.3	6.0
PROFESSIONAL'S SELECT	9.0	4.7	6.3	8.3	7.7	5.7	5.0	4.7	6.0
CITATION III	8.3	5.3	6.7	7.0	6.3	5.7	4.7	4.7	5.8
LEADERBOARD	8.7	4.3	5.7	7.0	7.0	6.7	5.7	4.0	5.8
PST-3BK-99	8.3	5.0	6.0	6.7	6.0	5.7	5.3	5.7	5.8
MP111	8.3	4.7	5.3	6.7	7.0	6.7	5.0	4.3	5.7
PRIME	8.7	4.3	5.3	7.7	6.7	6.0	5.3	4.7	5.7
ABT-99-3.268	5.0	5.3	5.7	4.7	5.0	5.3	6.7	6.7	5.6
BRIGHTSTAR II + WINTERPLAY	8.7	5.0	6.3	7.0	6.3	5.7	4.7	4.0	5.6
PARAGON	8.7	5.0	6.7	7.7	6.0	5.3	4.7	4.0	5.6
SNOWBIRD	7.0	3.3	4.7	6.3	6.3	6.0	6.0	6.3	5.6
CAPRI	7.3	4.0	5.7	7.0	6.0	6.7	5.0	4.3	5.5
MARVELGREEN + LASER	8.3	4.7	5.7	7.3	6.7	5.7	4.7	4.0	5.5
TRANSIST	6.7	4.3	5.3	6.0	5.0	4.3	6.0	6.7	5.4
BARIVIERA	6.3	3.3	4.0	5.3	6.3	6.3	5.7	6.0	5.3
WINTERPLAY	7.0	4.0	4.7	5.7	6.3	6.7	5.0	5.0	5.3
PICK HR A-97	7.7	4.7	5.7	6.7	4.3	4.0	5.3	6.0	5.2
SABRE	7.0	4.0	4.3	5.0	6.3	6.3	4.0	5.0	5.0
PROAM	7.0	3.7	4.3	5.0	5.7	5.3	4.3	5.7	4.9
LSD VALUE	0.8	1.3	1.5	1.4	2.0	3.2	2.0	1.2	1.2
C.V. (%)	6.4	14.1	13.4	11.7	15.6	20.4	14.7	13.5	10.2

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 5A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT STARKVILLE, MS (MISS. ST. UNIV. GOLF COURSE)

SEEDBED PREPARATION

Vertical mowing in 2 directions @ .125" below soil line and removal of debris

MOWING

Initial height 0.75"  
 mowing height during test 0.5"  
 Frequency 3 times per week  
 Type of mower Light wt. 5 gang (Jac. 3800)

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
10-Oct-00	8/24/2024	500 lbs./Acre
26-Jan-01	46-0-0	100 lbs./Acre
28-Mar-01	22-0-22	175 lbs./Acre
28-Jun-01	21-2-20	300 lbs./Acre

FUNGICIDES

CULTIVATION

Aerification - dates  
 Aerification - type  
 Verticutting  
 Dates of topdressing  
 Other cultural practices

Date(s)	Product	Rate (oz./M)
None		

  

Date(s)	Product	Rate (oz./M)
None		

HERBICIDES

MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION

INSECTICIDES

Date(s)	Product	Rate (oz./M)
None		

OTHER INFORMATION

OTHER PRODUCTS

Course closed for overseeding No  
 Landing area No  
 Divoting problem No  
 Cart allowed on Test area No  
 Traffic patterns No

Date(s)	Product	Rate (oz./M)
	Pendimethalin applied @ a 3#/A rate on 3/8/01	

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 OVERSEEDING GRASSES IN THE 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST AT STARKVILLE, MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/ 2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2000						DORMANCY	LIVING
	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
	11/21	11/21	12/6	12/6	12/19	12/19	2/6/01	2/6/01
SEVILLE II	50.0	50.0	41.7	58.3	33.3	66.7	16.7	83.3
ALLSPORT	50.0	50.0	51.7	48.3	41.7	58.3	18.3	81.7
LEADERBOARD	53.3	46.7	46.7	53.3	36.7	63.3	15.0	85.0
LS-DE1	50.0	50.0	43.3	56.7	31.7	68.3	15.0	85.0
BRIGHTSTAR II	50.0	50.0	46.7	53.3	40.0	60.0	21.7	78.3
FIESTA 3	50.0	50.0	40.0	60.0	33.3	66.7	16.7	83.3
MED-007	53.3	46.7	48.3	51.7	36.7	63.3	18.3	81.7
MP111	60.0	40.0	45.0	55.0	45.0	55.0	23.3	76.7
PIROUETTE	50.0	50.0	40.0	60.0	31.7	68.3	13.3	86.7
TOURSTAR	50.0	50.0	45.0	55.0	38.3	61.7	20.0	80.0
BARLENNIUM	50.0	50.0	43.3	56.7	33.3	66.7	15.0	85.0
CEBECO BLEND 1	50.0	50.0	46.7	53.3	36.7	63.3	16.7	83.3
ELFKIN	56.7	43.3	51.7	48.3	43.3	56.7	18.3	81.7
ESSENCE	50.0	50.0	43.3	56.7	35.0	65.0	15.0	85.0
MARVELGREEN SUPREME	50.0	50.0	45.0	55.0	33.3	66.7	16.7	83.3
PARAGON	50.0	50.0	40.0	60.0	35.0	65.0	20.0	80.0
PHANTOM	50.0	50.0	45.0	55.0	36.7	63.3	21.7	78.3
PROFESSIONAL'S SELECT	50.0	50.0	45.0	55.0	35.0	65.0	16.7	83.3
PST-3BK-99	50.0	50.0	48.3	51.7	45.0	55.0	21.7	78.3
CHARGER II	50.0	50.0	41.7	58.3	35.0	65.0	18.3	81.7
MP58	60.0	40.0	53.3	46.7	48.3	51.7	23.3	76.7
TOP HAT	50.0	50.0	45.0	55.0	40.0	60.0	18.3	81.7
CITATION III	53.3	46.7	58.3	41.7	48.3	51.7	18.3	81.7
MOUNTAIN VIEW 1	53.3	46.7	46.7	53.3	41.7	58.3	20.0	80.0
MOUNTAIN VIEW 2	53.3	46.7	56.7	43.3	46.7	53.3	23.3	76.7
MOUNTAIN VIEW 3	53.3	46.7	50.0	50.0	43.3	56.7	23.3	76.7
PRIME	50.0	50.0	41.7	58.3	35.0	65.0	16.7	83.3
CHARGER	50.0	50.0	43.3	56.7	31.7	68.3	15.0	85.0
FUTURA 2500	50.0	50.0	46.7	53.3	40.0	60.0	21.7	78.3
CAPRI	50.0	50.0	50.0	50.0	41.7	58.3	18.3	81.7
BRIGHTSTAR II + WINTERPLAY	56.7	43.3	55.0	45.0	45.0	55.0	23.3	76.7
FIRST CUT	53.3	46.7	48.3	51.7	40.0	60.0	18.3	81.7
MARVELGREEN + IASER	53.3	46.7	50.0	50.0	38.3	61.7	16.7	83.3
PICK HR A-97	50.0	50.0	41.7	58.3	33.3	66.7	13.3	86.7
CITATION III + WINTERSTAR	50.0	50.0	50.0	50.0	43.3	56.7	20.0	80.0
TRANSIST	53.3	46.7	45.0	55.0	43.3	56.7	20.0	80.0
ABT-99-3.268	56.7	43.3	51.7	48.3	38.3	61.7	18.3	81.7
PROAM	63.3	36.7	61.7	38.3	50.0	50.0	15.0	85.0
SNOWBIRD	60.0	40.0	55.0	45.0	45.0	55.0	15.0	85.0
WINTERPLAY	70.0	30.0	60.0	40.0	51.7	48.3	21.7	78.3
BARIVIERA	70.0	30.0	63.3	36.7	60.0	40.0	30.0	70.0
SABRE	66.7	33.3	61.7	38.3	50.0	50.0	20.0	80.0
LSD VALUE	9.2	9.2	12.1	12.1	13.2	13.2	9.9	9.9
C.V. (%)	9.9	11.4	13.6	12.8	17.3	11.7	23.4	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 5B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT STARKVILLE, MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001															
	BERMUDA GRASS 3/27	OVERSEED GRASS 3/27	BERMUDA GRASS 4/10	OVERSEED GRASS 4/10	BERMUDA GRASS 4/24	OVERSEED GRASS 4/24	BERMUDA GRASS 5/7	OVERSEED GRASS 5/7	BERMUDA GRASS 5/17	OVERSEED GRASS 5/17	BERMUDA GRASS 5/29	OVERSEED GRASS 5/29	BERMUDA GRASS 6/12	OVERSEED GRASS 6/12	BERMUDA GRASS 7/3	OVERSEED GRASS 7/3
SEVILLE II	0	97.7	10.0	90.0	21.7	78.3	28.3	71.7	40.0	60.0	48.3	51.7	58.3	41.7	91.7	6.7
ALLSPORT	0	99.0	10.0	90.0	20.0	80.0	30.0	70.0	40.0	60.0	50.0	50.0	63.3	36.7	96.3	1.7
LEADERBOARD	0	99.0	10.0	90.0	20.0	80.0	26.7	73.3	40.0	53.3	45.0	48.3	60.0	36.7	90.0	6.7
LS-DE1	0	99.0	10.0	90.0	21.7	78.3	31.7	68.3	41.7	56.7	48.3	50.0	61.7	38.3	93.0	1.7
BRIGHTSTAR II	0	96.3	10.0	90.0	20.0	80.0	35.0	65.0	40.0	55.0	50.0	48.3	58.3	40.0	96.0	1.7
FIESTA 3	0	99.0	10.0	90.0	20.0	80.0	30.0	70.0	40.0	56.7	48.3	46.7	60.0	40.0	91.7	5.0
MED-007	0	96.0	11.7	88.3	21.7	78.3	30.0	70.0	40.0	60.0	48.3	51.7	63.3	36.7	93.3	3.3
MP111	0	99.0	10.0	90.0	21.7	78.3	28.3	71.7	40.0	60.0	48.3	50.0	65.0	35.0	93.0	3.3
PIROUETTE	0	99.0	10.0	90.0	20.0	80.0	30.0	70.0	40.0	55.0	50.0	45.0	58.3	40.0	90.0	3.3
TOURSTAR	0	97.7	10.0	90.0	21.7	78.3	30.0	70.0	41.7	58.3	48.3	51.7	63.3	36.7	96.3	1.7
BARLENNIUM	0	99.0	10.0	90.0	20.0	80.0	35.0	65.0	46.7	48.3	48.3	43.3	63.3	33.3	91.3	3.3
CEBECO BLEND 1	0	97.7	10.0	90.0	20.0	80.0	31.7	68.3	40.0	58.3	46.7	50.0	63.3	36.7	91.7	0.0
ELFKIN	0	99.0	10.0	90.0	20.0	80.0	28.3	71.7	38.3	61.7	50.0	50.0	60.0	40.0	90.0	6.7
ESSENCE	0	99.0	10.0	90.0	20.0	80.0	28.3	71.7	43.3	55.0	50.0	46.7	63.3	35.0	94.7	3.3
MARVELGREEN SUPREME	0	99.0	10.0	90.0	21.7	78.3	35.0	65.0	45.0	55.0	56.7	35.0	66.7	31.7	93.0	0.0
PARAGON	0	99.0	10.0	90.0	23.3	76.7	36.7	63.3	46.7	43.3	56.7	33.3	68.3	30.0	94.7	5.0
PHANTOM	0	97.7	11.7	88.3	21.7	78.3	40.0	60.0	51.7	48.3	53.3	43.3	63.3	36.7	97.7	0.0
PROFESSIONAL'S SELECT	0	99.0	10.0	90.0	20.0	80.0	31.7	68.3	41.7	56.7	48.3	48.3	63.3	36.7	93.3	3.3
PST-3BK-99	0	96.0	13.3	86.7	30.0	70.0	36.7	63.3	46.7	53.3	51.7	48.3	63.3	36.7	97.7	0.0
CHARGER II	0	99.0	10.0	90.0	20.0	80.0	40.0	60.0	51.7	41.7	55.0	30.0	68.3	28.3	91.3	3.3
MP58	0	97.7	10.0	90.0	25.0	75.0	30.0	70.0	43.3	53.3	46.7	46.7	61.7	36.7	93.3	3.3
TOP HAT	0	97.7	10.0	90.0	20.0	80.0	33.3	66.7	41.7	55.0	55.0	40.0	60.0	38.3	94.7	1.7
CITATION III	0	99.0	10.0	90.0	21.7	78.3	31.7	66.7	40.0	56.7	48.3	48.3	63.3	36.7	94.3	3.3
MOUNTAIN VIEW 1	0	97.7	10.0	90.0	21.7	78.3	35.0	65.0	40.0	51.7	48.3	46.7	61.7	36.7	93.0	1.7
MOUNTAIN VIEW 2	0	99.0	10.0	90.0	20.0	80.0	40.0	60.0	46.7	46.7	51.7	40.0	65.0	30.0	97.7	0.0
MOUNTAIN VIEW 3	0	96.3	10.0	90.0	23.3	76.7	33.3	66.7	46.7	51.7	55.0	40.0	63.3	35.0	99.0	0.0
PRIME	0	99.0	10.0	90.0	21.7	78.3	33.3	63.3	43.3	43.3	53.3	26.7	70.0	23.3	92.7	3.3
CHARGER	0	99.0	10.0	90.0	25.0	75.0	33.3	66.7	43.3	51.7	48.3	43.3	60.0	36.7	93.0	1.7
FUTURA 2500	0	96.3	11.7	88.3	23.3	76.7	36.7	63.3	40.0	58.3	48.3	48.3	65.0	35.0	96.0	3.3
CAPRI	0	96.3	10.0	90.0	23.3	76.7	33.3	66.7	45.0	51.7	63.3	35.0	76.7	23.3	97.7	1.7
BRIGHTSTAR II + WINTERPLAY	0	99.0	11.7	88.3	21.7	78.3	31.7	60.0	45.0	40.0	51.7	40.0	66.7	31.7	96.3	0.0
FIRST CUT	0	97.7	10.0	90.0	20.0	80.0	35.0	56.7	45.0	36.7	50.0	31.7	66.7	30.0	94.3	1.7
MARVELGREEN + LASER	0	97.7	10.0	90.0	23.3	76.7	33.3	50.0	48.3	36.7	55.0	33.3	65.0	33.3	96.0	1.7
PICK HR A-97	0	99.0	10.0	90.0	25.0	75.0	36.7	63.3	46.7	45.0	61.7	21.7	76.7	16.7	99.0	0.0
CITATION III + WINTERSTAR	0	97.7	11.7	88.3	21.7	78.3	36.7	35.0	58.3	23.3	61.7	28.3	68.3	30.0	99.0	0.0
TRANSIST	0	96.3	13.3	86.7	25.0	75.0	38.3	60.0	48.3	41.7	61.7	26.7	75.0	18.3	99.0	0.0
ABT-99-3.268	0	96.3	13.3	86.7	25.0	75.0	51.7	43.3	70.0	18.3	86.7	0.0	96.3	0.0	99.0	0.0
PROAM	0	96.0	10.0	90.0	20.0	80.0	30.0	10.0	36.7	3.3	56.7	3.3	81.7	9.0	99.0	0.0
SNOWBIRD	0	97.7	10.0	90.0	20.0	80.0	26.7	3.3	35.0	0.0	60.0	0.0	80.0	8.3	99.0	0.0
WINTERPLAY	0	94.7	13.3	86.7	20.0	80.0	28.3	6.7	38.3	3.3	58.3	11.7	83.3	8.3	99.0	0.0
BARIVIERA	0	88.3	20.0	80.0	25.0	75.0	35.0	3.3	50.0	0.0	68.3	5.0	85.0	8.3	99.0	0.0
SABRE	0	97.7	10.0	90.0	20.0	80.0	26.7	3.3	36.7	0.0	61.7	3.3	78.3	8.3	98.3	0.0
LSD VALUE	-	4.6	11.3	11.3	5.5	5.5	14.6	11.4	11.8	13.2	10.0	15.0	10.8	12.4	13.7	8.3
C.V. (%)	-	2.3	29.4	3.5	12.2	3.4	18.9	13.6	14.7	19.9	11.4	26.6	9.9	26.1	4.8	151.2

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 5B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT STARKVILLE, MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/  
2000-01 DATA

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

NAME	PERCENT	GENETIC COLOR	WINTER COLOR	SEEDLING VIGOR	FALL QUALITY IN 2000			WINTER QUALITY		SPRING/SUMMER QUALITY RATINGS IN 2001						QUALITY MEAN	
	EARLY ESTABLISHED				11/17	12/6	12/19	1/16 2001	2/9 2001	3/21	4/11	5/2	5/14	5/25	6/1		6/19
SEVILLE II	40.0	7.3	7.0	6.7	7.0	6.0	6.0	6.0	7.0	7.7	7.7	8.0	7.7	7.3	7.7	6.7	7.1
ALLSPORT	40.0	7.0	7.0	7.3	7.0	5.0	5.0	5.7	6.7	7.7	8.0	8.0	7.7	8.0	8.0	7.0	7.0
LEADERBOARD	43.3	7.0	7.0	7.3	7.0	5.7	5.7	6.0	7.0	8.0	8.0	8.0	7.7	7.0	7.3	6.3	7.0
LS-DE1	43.3	8.0	7.0	7.0	7.0	5.3	5.7	6.0	7.0	8.0	8.0	8.0	7.3	7.3	7.3	6.7	7.0
BRIGHTSTAR II	40.0	8.0	7.0	6.7	7.0	5.3	5.0	5.7	6.7	8.0	8.0	8.0	7.3	7.0	7.3	7.0	6.9
FIESTA 3	40.0	7.7	7.0	6.3	7.0	6.0	6.0	6.0	7.0	8.0	8.0	8.0	6.7	7.0	7.0	6.7	6.9
MED-007	40.0	6.7	7.0	7.3	7.0	5.3	5.3	6.0	6.7	7.7	7.3	7.7	7.3	7.3	7.7	7.0	6.9
MP111	40.0	8.0	7.0	6.7	7.0	5.0	5.3	5.7	6.7	8.0	8.0	8.0	7.3	7.3	7.3	7.0	6.9
PIROUETTE	43.3	7.0	7.0	6.0	7.0	6.0	6.0	6.0	6.7	7.7	8.0	8.0	7.3	6.7	7.0	6.3	6.9
TOURSTAR	43.3	6.7	7.0	7.3	7.0	5.3	5.0	5.7	6.7	7.7	7.7	7.7	7.7	7.7	7.3	7.0	6.9
BARLENNIUM	40.0	7.0	7.0	6.7	7.0	5.3	5.7	6.0	7.0	8.0	8.0	7.7	7.0	6.7	6.7	6.7	6.8
CEBECO BLEND 1	40.0	6.3	7.0	6.7	7.0	5.0	5.7	6.0	6.7	7.7	7.7	8.0	7.7	7.3	6.7	6.7	6.8
ELFKIN	43.3	7.0	7.0	6.3	7.0	5.0	5.3	5.3	6.3	7.7	8.0	8.0	7.7	7.3	7.0	6.7	6.8
ESSENCE	46.7	6.0	6.7	6.0	7.0	5.7	5.3	6.0	7.0	8.0	7.3	7.0	7.0	7.0	6.7	7.0	6.8
MARVELGREEN SUPREME	40.0	7.3	7.0	6.7	7.0	5.7	5.7	6.0	6.7	7.7	8.0	8.0	7.0	6.3	6.3	6.7	6.8
PARAGON	40.0	8.0	7.0	6.3	7.0	5.7	5.7	6.0	7.0	8.0	7.7	8.0	6.7	6.3	6.7	7.0	6.8
PHANTOM	40.0	7.7	7.0	6.7	7.0	5.3	5.3	6.0	6.7	7.7	8.0	8.0	6.7	6.7	6.7	7.0	6.8
PROFESSIONAL'S SELECT	43.3	6.7	7.0	7.0	7.0	5.3	5.3	6.0	6.7	7.7	8.0	7.7	7.0	6.7	7.0	7.0	6.8
PST-3BK-99	40.0	7.7	7.0	6.7	7.0	5.0	5.0	5.7	6.7	7.7	8.0	7.7	7.3	7.3	7.0	7.0	6.8
CHARGER II	40.0	7.3	7.0	6.0	7.0	5.7	5.7	6.0	7.0	8.0	8.0	8.0	6.3	6.0	5.7	6.7	6.7
MP58	36.7	8.0	7.0	6.7	6.7	4.7	5.0	5.3	6.7	8.0	8.0	7.7	7.3	6.7	7.0	7.0	6.7
TOP HAT	46.7	6.3	6.7	7.0	7.0	5.7	5.0	5.7	6.3	7.3	7.7	8.0	7.0	7.0	7.0	7.0	6.7
CITATION III	40.0	6.7	7.0	7.0	7.0	4.7	5.0	5.7	6.7	7.7	8.0	7.7	7.0	6.7	7.0	6.7	6.6
MOUNTAIN VIEW 1	43.3	6.7	7.0	6.3	7.0	5.0	5.3	5.7	6.7	7.7	7.7	7.3	7.3	6.7	6.3	7.0	6.6
MOUNTAIN VIEW 2	40.0	7.3	7.0	7.0	7.0	4.3	5.0	5.7	6.7	7.7	7.3	8.0	7.0	7.0	6.7	6.7	6.6
MOUNTAIN VIEW 3	40.0	7.3	7.0	6.0	6.7	5.3	5.0	5.7	6.3	7.3	7.7	7.7	6.7	6.7	6.7	7.0	6.6
PRIME	43.3	8.0	7.0	6.0	7.0	5.7	5.7	6.0	6.7	7.7	7.7	8.0	6.7	6.0	6.0	6.0	6.6
CHARGER	50.0	6.0	6.3	6.3	7.0	5.7	6.0	6.0	6.3	7.0	7.0	7.3	6.7	6.3	6.3	6.7	6.5
FUTURA 2500	46.7	6.3	7.0	7.0	7.0	5.3	5.0	5.7	6.0	7.0	7.0	7.0	7.0	7.0	6.7	7.0	6.5
CAPRI	43.3	6.0	6.0	6.0	7.0	5.3	5.0	5.7	6.0	7.0	7.0	7.0	7.0	6.3	6.3	7.0	6.4
BRIGHTSTAR II + WINTERPLAY	36.7	7.0	7.0	6.0	7.0	5.0	5.0	5.3	6.0	7.3	7.3	7.3	6.0	6.0	6.7	6.7	6.3
FIRST CUT	40.0	7.0	7.0	6.3	7.0	5.0	5.0	6.0	6.3	7.3	7.3	7.3	6.0	5.0	5.7	6.3	6.2
MARVELGREEN + LASER	36.7	6.0	6.3	6.7	7.0	5.0	5.3	6.0	6.3	6.7	7.0	6.7	5.7	5.7	6.3	6.7	6.2
PICK HR A-97	40.0	6.7	7.0	7.0	7.0	5.3	5.7	6.0	6.0	6.7	6.7	6.7	6.3	5.0	5.0	6.7	6.1
CITATION III + WINTERSTAR	40.0	6.7	6.7	6.3	7.0	4.7	4.7	5.7	6.3	7.0	7.0	6.0	5.0	5.7	6.0	7.0	6.0
TRANSIST	50.0	6.0	6.7	7.3	7.0	5.3	5.0	5.7	5.7	5.3	6.3	7.0	6.3	5.7	5.7	6.7	6.0
ABT-99-3.268	43.3	4.0	5.3	6.7	7.0	4.3	5.0	5.7	5.3	5.7	5.3	5.3	5.0	5.0	5.3	7.0	5.5
PROAM	40.0	5.0	6.0	4.0	6.7	4.7	4.7	5.7	6.0	6.7	7.0	5.0	3.3	4.0	4.3	6.3	5.4
SNOWBIRD	36.7	5.0	6.0	4.3	6.7	4.7	4.7	6.7	6.7	7.0	7.0	4.7	3.0	4.0	4.0	6.3	5.4
WINTERPLAY	20.0	5.3	6.0	3.3	6.3	4.0	4.7	5.3	6.3	6.7	6.7	4.3	3.3	4.0	4.7	6.3	5.2
BARIVIERA	33.3	5.0	6.3	4.3	6.0	3.7	4.3	5.0	5.7	6.3	6.7	4.3	3.7	4.3	4.7	6.7	5.1
SABRE	33.3	5.0	6.0	4.3	6.0	3.7	4.3	5.7	6.0	7.0	6.7	4.0	3.0	4.0	4.3	6.3	5.1
LSD VALUE	7.2	0.6	0.4	1.2	0.5	1.0	1.1	1.1	0.9	0.7	0.6	0.8	0.9	1.1	1.2	1.1	0.3
C.V. (%)	10.5	6.4	3.8	11.9	3.7	11.0	10.2	7.2	7.1	6.1	5.1	7.1	9.0	11.2	11.5	6.0	3.5

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

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

TABLE 6A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT CRESCENT, MO (PLAYER CLUB AT ST. LOUIS)

SEEDBED PREPARATION

Spray bermudagrass with Primo one week before overseeding (11 oz./A.)

MOWING

Initial height 0.60"  
 mowing height during test 0.80"  
 Frequency 3 times per week  
 Type of mower Light weight 5-plex

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
23-Sep-99	5-10-20	1 lbs. N
13-Apr-00	24-3-11 (SCU)	1 lbs. N
6-Jun-00	14-4-14 (SCU)	1 lbs. N
13-Jul-00	14-4-14 (SCU)	1 lbs. N

FUNGICIDES

CULTIVATION

Aerification - dates  
 Aerification - type  
 Verticutting  
 Dates of topdressing  
 Other cultural practices

Date(s)	Product	Rate (oz./M)
None		

HERBICIDES

MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION

Lower cutting height, fertilize heavy, cut down on irrigation back to 0.6"

Date(s)	Product	Rate (oz./M)
17-Jan-22	Prograss	0.75 gallon/Acre
6-Mar-00	Ronstar Preemergence	4.5 lbs./Acre

INSECTICIDES

OTHER INFORMATION

Course closed for overseeding Yes, for 1 week  
 Landing area Yes, none more than normal  
 Divoting problem  
 Cart allowed on Test area Yes  
 Traffic patterns no

OTHER PRODUCTS

Date(s)	Product	Rate (oz./M)
23-Sep-99	Primo	11 oz./Acre

NOTES/COMMENTS

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 OVERSEEDING CULTIVARS IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT CRESCENT (ST. LOUIS), MO (PLAYERS CLUB AT ST. LOUIS) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	FALL PERCENT COVER OF (2000)			WINTER PERCENT COVER OF (2001)				SPRING/SUMMER PERCENT COVER OF (2001)			
	LIVING BERMUDA GRASS	LIVING BERMUDA GRASS	LIVING OVERSEED GRASS	DORMANCY BERMUDA GRASS	LIVING OVERSEED GRASS	DORMANCY BERMUDA GRASS	LIVING OVERSEED GRASS	LIVING BERMUDA GRASS	LIVING OVERSEED GRASS	LIVING BERMUDA GRASS	LIVING OVERSEED GRASS
	10/20	11/16	11/16	3/1	3/1	4/26	4/26	7/5	7/5	8/2	8/2
BARLENNIUM	50	30	50.0	11.7	88.3	46.7	53.3	33.3	66.7	81.7	18.3
ELFKIN	50	30	51.7	30.0	70.0	33.3	66.7	55.0	45.0	73.3	26.7
FIESTA 3	50	30	45.0	4.3	95.7	50.0	50.0	50.0	50.0	90.0	10.0
LS-DE1	50	30	43.3	11.7	88.3	50.0	50.0	48.3	51.7	88.3	11.7
PARAGON	50	30	53.3	13.3	86.7	50.0	50.0	58.3	41.7	55.0	45.0
PROFESSIONAL'S SELECT	50	30	53.3	13.3	86.7	46.7	53.3	56.7	43.3	70.0	30.0
CHARGER II	50	30	50.0	13.3	86.7	43.3	56.7	53.3	46.7	65.0	35.0
PRIME	50	30	43.3	18.3	81.7	36.7	63.3	50.0	50.0	80.0	20.0
PST-3BK-99	50	30	41.7	11.7	88.3	63.3	36.7	68.3	31.7	73.3	26.7
CHARGER	50	30	33.3	13.3	86.7	50.0	50.0	50.0	50.0	81.7	18.3
PHANTOM	50	30	36.7	20.0	80.0	53.3	46.7	43.3	56.7	73.3	26.7
PIROUETTE	50	30	41.7	10.0	90.0	46.7	53.3	43.3	56.7	76.7	23.3
BRIGHTSTAR II + WINTERPLAY	50	30	38.3	23.3	76.7	50.0	50.0	33.3	66.7	71.7	28.3
CITATION III + WINTERSTAR	50	30	36.7	18.3	81.7	43.3	56.7	51.7	48.3	83.3	16.7
FIRST CUT	50	30	43.3	21.7	78.3	43.3	56.7	50.0	50.0	65.0	35.0
MARVELGREEN SUPREME	50	30	36.7	21.7	78.3	50.0	50.0	41.7	58.3	66.7	33.3
MED-007	50	30	38.3	10.0	90.0	40.0	60.0	38.3	61.7	76.7	23.3
MOUNTAIN VIEW 2	50	30	41.7	16.7	83.3	50.0	50.0	46.7	53.3	76.7	23.3
MP111	50	30	30.0	20.0	80.0	50.0	50.0	41.7	58.3	65.0	35.0
PICK HR A-97	50	30	30.0	11.7	88.3	56.7	43.3	65.0	35.0	65.0	35.0
BRIGHTSTAR II	50	30	36.7	15.0	85.0	36.7	63.3	41.7	58.3	66.7	33.3
CITATION III	50	30	40.0	16.7	83.3	43.3	56.7	36.7	63.3	73.3	26.7
ESSENCE	50	30	30.0	21.7	78.3	50.0	50.0	50.0	50.0	75.0	25.0
MOUNTAIN VIEW 1	50	30	40.0	15.0	85.0	50.0	50.0	26.7	73.3	70.0	30.0
SEVILLE II	50	30	33.3	16.7	83.3	50.0	50.0	41.7	58.3	73.3	26.7
TOURSTAR	50	30	45.0	15.0	85.0	56.7	43.3	58.3	41.7	66.7	33.3
ALLSPORT	50	30	45.0	20.0	80.0	46.7	56.7	41.7	58.3	78.3	21.7
CAPRI	50	30	38.3	18.3	81.7	53.3	46.7	45.0	55.0	66.7	33.3
FUTURA 2500	50	30	41.7	13.3	86.7	43.3	56.7	31.7	68.3	58.3	41.7
LEADERBOARD	50	30	36.7	15.0	85.0	50.0	50.0	38.3	61.7	53.3	46.7
MARVELGREEN + LASER	50	30	50.0	21.7	78.3	50.0	50.0	50.0	50.0	65.0	35.0
MP58	50	30	31.7	23.3	76.7	43.3	56.7	35.0	65.0	81.7	18.3
TRANSIST	50	30	48.3	11.7	88.3	60.0	40.0	53.3	46.7	73.3	26.7
CEBECO BLEND 1	50	30	35.0	13.3	86.7	60.0	40.0	38.3	61.7	70.0	30.0
MOUNTAIN VIEW 3	50	30	26.7	20.0	80.0	50.0	46.7	41.7	58.3	78.3	21.7
ABT-99-3.268	50	30	36.7	18.3	81.7	60.0	40.0	61.7	38.3	70.0	30.0
TOP HAT	50	30	36.7	23.3	76.7	46.7	53.3	46.7	53.3	50.0	50.0
SNOWBIRD	50	30	25.0	30.0	70.0	46.7	53.3	28.3	71.7	73.3	26.7
BARIVIERA	50	30	21.7	35.0	65.0	50.0	50.0	50.0	50.0	70.0	30.0
WINTERPLAY	50	30	15.0	20.0	80.0	36.7	63.3	28.3	71.7	75.0	25.0
PROAM	50	30	28.3	26.7	73.3	50.0	63.3	56.7	43.3	70.0	30.0
SABRE	50	30	20.0	41.7	58.3	43.3	56.7	41.7	58.3	70.0	30.0
LSD VALUE	-	-	19.9	13.3	13.3	22.7	19.7	36.6	36.6	54.3	54.3
C.V. (%)	0	0	26.7	40.0	8.9	18.8	17.0	30.8	26.0	20.9	52.6

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 6B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING CULTIVARS IN THE  
(CONT'D) 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT CRESCENT (ST. LOUIS), MO (PLAYERS CLUB AT ST. LOUIS) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT	GENETIC	FALL QUALITY IN 2000		WINTER QUALITY		SPRING/SUMMER QUALITY		QUALITY MEAN
	EARLY ESTABLISHED	COLOR 3/1	10/20	11/16	3/1 2001	4/26 2001	RATINGS IN 2001		
							7/5	8/2	
BARLENNIUM	41.7	5.0	3.3	3.7	5.0	4.3	4.0	6.7	4.5
ELFKIN	26.7	4.7	3.3	3.3	4.3	5.0	4.7	6.3	4.5
FIESTA 3	23.3	6.0	3.0	3.0	5.3	4.7	4.0	7.0	4.5
LS-DE1	33.3	5.7	3.0	3.3	5.3	4.0	3.7	7.0	4.4
PARAGON	35.0	5.3	3.3	3.7	5.3	4.3	5.0	4.7	4.4
PROFESSIONAL'S SELECT	35.0	4.7	3.0	3.7	5.0	4.7	4.3	5.7	4.4
CHARGER II	35.0	4.3	3.0	3.3	5.0	4.3	4.3	6.0	4.3
PRIME	23.3	5.0	3.0	3.3	4.7	3.7	4.7	6.7	4.3
PST-3BK-99	21.7	5.0	3.0	3.3	5.0	3.3	5.3	5.7	4.3
CHARGER	28.3	4.7	3.0	3.0	4.3	3.7	4.3	6.7	4.2
PHANTOM	18.3	5.3	3.0	3.0	5.0	4.3	3.7	6.3	4.2
PIROUETTE	26.7	5.0	3.0	3.0	5.0	4.0	4.0	6.3	4.2
BRIGHTSTAR II + WINTERPLAY	18.3	5.3	3.0	3.0	5.0	4.0	3.0	6.3	4.1
CITATION III + WINTERSTAR	21.7	4.3	2.7	2.7	4.3	3.7	4.0	7.0	4.1
FIRST CUT	25.0	4.0	2.7	3.0	4.7	4.3	3.7	6.0	4.1
MARVELGREEN SUPREME	20.0	5.3	3.0	3.0	4.7	4.0	4.0	5.7	4.1
MED-007	18.3	5.0	2.7	3.0	5.0	4.3	3.7	6.0	4.1
MOUNTAIN VIEW 2	25.0	6.3	2.7	3.0	5.0	4.0	3.7	6.0	4.1
MP111	21.7	6.0	2.7	2.7	5.0	4.7	4.0	5.3	4.1
PICK HR A-97	20.0	5.0	3.0	3.0	4.7	3.0	4.7	6.0	4.1
BRIGHTSTAR II	25.0	7.3	3.0	3.0	5.0	4.3	4.0	4.7	4.0
CITATION III	26.7	5.3	3.0	3.0	4.7	3.7	4.0	5.7	4.0
ESSENCE	13.3	5.0	2.7	3.0	4.3	3.7	4.3	6.0	4.0
MOUNTAIN VIEW 1	18.3	5.0	3.0	3.0	4.7	4.0	3.3	6.0	4.0
SEVILLE II	23.3	6.0	3.0	3.0	5.3	3.3	3.7	5.7	4.0
TOURSTAR	28.3	4.0	3.0	3.0	4.3	4.0	4.7	5.0	4.0
ALLSPORT	28.3	5.0	3.0	3.3	4.3	4.0	3.7	5.3	3.9
CAPRI	8.3	4.7	2.0	3.0	5.0	3.3	4.0	6.0	3.9
FUTURA 2500	20.0	4.3	3.0	3.0	5.0	3.7	3.7	5.0	3.9
LEADERBOARD	18.3	5.3	3.0	3.3	5.3	4.0	3.7	4.3	3.9
MARVELGREEN + LASER	31.7	4.3	3.3	3.3	4.3	3.7	4.0	5.0	3.9
MP58	16.7	5.0	2.7	2.7	5.0	3.3	3.7	6.3	3.9
TRANSIST	36.7	3.3	3.3	3.3	3.3	2.7	4.3	6.7	3.9
CEBECO BLEND 1	21.7	5.3	3.0	3.0	4.3	3.3	4.0	5.3	3.8
MOUNTAIN VIEW 3	18.3	5.3	3.0	2.7	4.3	3.3	3.7	5.7	3.8
ABT-99-3.268	25.0	2.3	3.0	3.0	3.0	2.0	5.0	6.0	3.7
TOP HAT	20.0	4.3	3.0	3.0	4.3	3.0	4.0	4.0	3.6
SNOWBIRD	11.7	5.3	2.0	2.0	4.3	3.0	3.3	6.3	3.5
BARIVIERA	10.0	3.7	2.0	2.0	3.7	2.7	4.0	5.3	3.3
WINTERPLAY	8.3	4.7	2.0	2.0	3.7	3.0	3.0	6.3	3.3
PROAM	16.7	3.0	2.0	2.3	3.0	3.0	3.7	5.3	3.2
SABRE	13.3	5.0	2.3	2.0	3.0	2.7	3.7	5.3	3.2
LSD VALUE	23.4	1.9	0.5	0.8	1.5	1.2	1.5	4.3	0.6
C.V. (%)	44.6	20.2	11.3	14.5	16.6	18.1	16.5	21.0	8.1

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

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

TABLE 7A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT MYRTLE BEACH, SC (BLACKMOOR GOLF COURSE)

SEEDBED PREPARATION

Fairway was lightly scalped and then verticut five days prior to seeding test area. Test areas were then seeded utilizing a specially prepared "box" to provide for uniform placement of seed. Seeding was accomplished on Oct.26.

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
29-Nov-00	90% SCU (20-10-20)	1 lb. N
1-Jan-01	TGR (Scotts growth regulator)	16 oz./Acre
29-Jan-01	21-0-0	1 lb. N
2/19, 3/19/01	TGR	24 oz./Acre
12-Mar-01	75% SCU (12-13-9-20) (impregnated w/team Pro 2.5 lbs A.I./Acre)	1 lb. N
2-May-01	90% SCU (20-10-20) (impregnated w/Ronstar 2.5 lbs A.I./Acre)	1 lb. N
17-Jul-01	97% SCU (20-10-20)	1 lb. N

MOWING

Initial height 5/8"  
  
mowing height during test 1/2"  
Frequency 3 times per week  
Type of mower Toro 450D

FUNGICIDES

Date(s)	Product	Rate (oz./M)
	None	

CULTIVATION

Aerification - dates 12/5/00, 2/13/01  
Aerification - type Aeroway slicer  
Verticutting  
Dates of topdressing  
Other cultural practices

HERBICIDES

Date(s)	Product	Rate (oz./M)
	None	

INSECTICIDES

MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION

Date(s)	Product	Rate (oz./M)
	None	

OTHER INFORMATION

Course closed for overseeding No  
Landing area No more than rest of fairway  
Divoting problem  
Cart allowed on Test area Yes, traffic was allowed (carts)  
Traffic patterns No patterns were noted

OTHER PRODUCTS

Date(s)	Product	Rate (lbs./M)
	None	

NOTES/COMMENTS

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 OVERSEEDING CULTIVARS IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT MYRTLE BEACH, SC (BLACKMOOR GOLF COURSE) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	FALL PERCENT COVER OF LIVING GRASSES (2000)			WINTER PERCENT COVER OF (2001)				SPRING/SUMMER PERCENT COVER OF LIVING OVERSEEDING GRASS (2001)	
	BERMUDA GRASS	OVERSEED GRASS	OVERSEED GRASS	DORMANCY GRASS	LIVING GRASS	LIVING GRASS	LIVING GRASS	4/2	6/4
	11/20	11/30	12/21	2/1	1/11	2/1	2/27		
CHARGER II	81.7	62.3	79.0	20.0	62.7	67.3	90.3	92.7	32.0
SEVILLE II	77.7	54.0	76.7	19.0	57.3	65.0	90.7	91.0	37.0
MARVELGREEN SUPREME	72.7	60.0	78.7	17.0	67.0	72.7	88.7	87.7	39.3
CITATION III + WINTERSTAR	80.0	53.3	83.7	15.0	70.0	76.3	92.3	91.7	58.3
CEBECO BLEND 1	73.3	46.7	74.3	19.7	59.3	65.0	87.0	92.0	37.3
FIRST CUT	68.3	43.0	75.7	21.0	64.7	69.0	85.7	85.7	24.3
MOUNTAIN VIEW 1	70.0	51.7	70.7	22.7	52.3	59.7	85.3	90.0	29.0
PICK HR A-97	75.0	55.7	74.3	27.0	53.7	63.0	93.3	97.3	20.7
SNOWBIRD	71.7	64.0	89.3	6.0	84.7	88.7	95.7	93.3	47.3
BRIGHTSTAR II	61.7	52.0	69.3	24.3	55.0	59.3	86.7	91.3	36.7
BRIGHTSTAR II + WINTERPLAY	60.7	48.7	73.3	16.7	65.3	70.7	90.7	90.7	38.3
ESSENCE	80.0	46.0	73.7	25.3	52.7	59.3	86.3	88.0	25.0
LEADERBOARD	75.7	47.3	73.3	23.3	55.3	60.7	87.3	89.0	31.3
CITATION III	63.3	49.7	68.3	21.0	56.7	59.7	81.0	91.3	28.0
MOUNTAIN VIEW 2	70.0	47.3	67.3	21.7	55.0	61.0	86.0	85.3	34.7
TOP HAT	61.7	40.7	67.3	21.7	56.3	60.0	85.0	95.0	40.0
TOURSTAR	68.3	49.7	66.7	25.7	51.7	55.0	83.0	88.7	36.7
BARLENNIUM	70.0	52.3	70.7	20.3	59.0	59.0	85.3	91.0	44.0
CHARGER	73.3	48.0	62.7	26.0	47.3	62.3	81.7	89.0	29.0
PHANTOM	69.3	49.0	65.0	27.7	51.7	54.3	82.7	87.7	22.7
PROFESSIONAL'S SELECT	70.0	56.7	70.0	27.7	53.3	56.7	85.7	87.7	39.0
FIESTA 3	75.0	43.3	66.7	23.3	56.7	52.3	81.3	81.0	38.0
MARVELGREEN + LASER	63.3	45.0	75.7	18.7	65.0	64.3	85.0	87.7	46.7
PIROUETTE	76.7	52.7	71.0	22.0	57.7	56.7	79.0	80.3	33.0
SABRE	73.3	63.0	89.0	6.7	84.0	84.3	95.3	91.0	51.7
WINTERPLAY	60.0	51.7	87.3	15.3	79.7	83.3	93.3	86.3	41.0
ELFKIN	65.0	44.0	62.3	24.0	52.0	53.3	81.3	87.7	37.0
PRIME	68.3	44.7	61.3	26.7	45.3	50.7	83.7	86.3	25.0
PROAM	66.7	62.3	82.7	13.3	78.0	77.7	97.0	94.3	49.3
TRANSIST	73.3	48.0	67.7	27.7	47.3	62.3	90.0	94.3	25.7
ABT-99-3.268	63.3	36.7	69.0	29.0	48.0	68.0	93.3	92.3	8.3
BARIVIERA	76.7	65.7	87.7	6.0	82.3	86.3	94.7	89.3	45.7
CAPRI	55.0	33.7	61.0	27.7	47.7	56.7	82.7	90.3	19.7
FUTURA 2500	60.0	38.7	55.0	30.0	44.7	51.7	83.3	93.7	26.3
LS-DE1	63.3	40.0	60.0	30.0	48.0	53.7	76.0	85.3	31.7
MED-007	77.3	46.0	66.0	32.0	47.0	48.3	81.7	81.0	23.3
PARAGON	58.3	45.7	63.3	27.3	52.3	52.3	78.3	83.3	41.3
PST-3BK-99	66.7	49.0	67.3	24.3	50.7	56.3	76.3	81.7	25.0
ALLSPORT	70.0	42.3	57.7	29.3	48.7	49.0	75.0	85.0	27.0
MOUNTAIN VIEW 3	65.0	40.7	57.7	27.3	49.0	53.7	75.7	84.3	36.7
MP111	51.7	39.7	57.0	31.3	44.0	51.3	81.0	85.3	30.3
MP58	71.7	39.0	61.3	30.0	44.0	49.7	83.3	76.3	23.3
LSD VALUE	28.8	18.6	12.6	11.4	12.6	13.7	16.5	17.2	17.8
C.V. (%)	15.0	18.8	10.8	28.5	13.9	13.6	8.7	7.3	29.6

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. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING CULTIVARS IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT MYRTLE BEACH, SC (BLACKMOOR GOLF COURSE) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC	WINTER	% ANNUAL				FALL QUALITY		WINTER QUALITY		SPRING/SUMMER QUALITY				QUALITY MEAN
	COLOR 4/2/01	COLOR 2/1/01	PERCENT 2/1	DOLLAR 2/27	SPOT 5/1	RATINGS (2001) 6/1	BLUEGRASS 5/1	IN 2000 11/30 12/21	1/11 2001	2/1 2001	RATINGS IN 2001 2/27 4/2 5/1 6/4				
CHARGER II	8.0	7.0	0.0	0.0	0.0	0.0	11.7	5.3 6.0	5.3 5.3	7.0 8.0 6.7 7.0	6.3				
SEVILLE II	9.0	7.0	0.0	0.0	0.0	0.0	10.7	4.7 5.7	5.7 5.7	6.7 7.7 7.0 7.0	6.3				
MARVELGREEN SUPREME	8.3	6.7	0.0	0.0	0.0	0.0	8.0	5.0 6.0	5.7 5.7	6.3 6.7 7.0 7.0	6.2				
CITATION III + WINTERSTAR	6.7	6.0	0.0	0.0	23.0	4.0	7.3	4.7 6.7	5.7 5.7	7.0 7.0 5.3 6.7	6.1				
CEBECO BLEND 1	6.7	6.7	0.0	0.0	0.0	0.0	12.0	3.7 5.7	5.3 5.0	6.3 7.7 7.3 7.0	6.0				
FIRST CUT	7.7	5.3	0.0	0.0	21.3	0.0	9.7	4.0 5.7	6.0 5.7	6.0 7.3 5.3 7.0	5.9				
MOUNTAIN VIEW 1	6.3	6.0	0.0	0.0	0.0	0.0	9.0	4.3 5.7	4.7 5.3	6.3 7.3 7.3 6.3	5.9				
PICK HR A-97	6.0	6.7	0.0	0.0	0.0	0.0	5.0	4.7 5.3	4.7 5.3	7.0 6.7 6.7 6.7	5.9				
SNOWBIRD	6.0	4.0	19.0	9.3	27.3	9.3	0.0	5.0 7.3	7.0 5.0	6.7 6.0 4.7 5.7	5.9				
BRIGHTSTAR II	8.7	7.3	0.0	0.0	0.0	0.0	11.3	4.0 5.3	5.0 5.3	6.3 8.0 6.0 6.0	5.8				
BRIGHTSTAR II + WINTERPLAY	7.0	6.3	0.0	0.0	8.3	0.0	9.0	4.0 5.7	5.3 5.7	7.0 6.3 6.3 6.3	5.8				
ESSENCE	6.7	6.0	0.0	0.0	5.3	0.0	14.7	3.7 5.7	4.7 5.3	6.3 6.7 6.7 7.0	5.8				
LEADERBOARD	7.3	6.3	0.0	0.0	0.0	0.0	19.7	3.7 5.7	5.0 5.0	6.3 7.0 6.7 6.7	5.8				
CITATION III	8.3	6.7	0.0	0.0	0.0	0.0	8.3	4.3 5.3	5.0 5.0	6.0 7.0 6.0 6.7	5.7				
MOUNTAIN VIEW 2	7.0	5.7	0.0	0.0	0.0	0.0	10.0	4.3 5.3	4.7 5.0	6.3 6.7 6.3 6.7	5.7				
TOP HAT	7.0	7.0	0.0	0.0	0.0	0.0	5.3	3.0 5.0	5.0 5.3	6.3 7.7 7.0 6.3	5.7				
TOURSTAR	8.3	7.0	0.0	0.0	0.0	0.0	2.7	4.7 5.3	4.7 4.7	6.3 6.7 6.7 6.3	5.7				
BARLENNIUM	8.3	7.0	0.0	0.0	0.0	0.0	16.7	4.0 5.0	5.0 5.3	6.3 7.0 6.0 6.3	5.6				
CHARGER	5.7	6.3	0.0	0.0	0.0	0.0	12.0	4.0 5.0	5.0 4.7	6.3 6.3 6.7 7.0	5.6				
PHANTOM	8.3	7.3	0.0	0.0	0.0	0.0	14.0	4.0 5.3	4.3 5.0	5.7 6.3 6.7 7.3	5.6				
PROFESSIONAL'S SELECT	7.3	6.3	0.0	0.0	0.0	0.0	16.0	4.0 5.3	4.7 4.7	6.3 7.0 6.7 6.3	5.6				
FIESTA 3	9.0	6.7	0.0	0.0	0.0	0.0	29.3	4.3 5.0	5.0 4.7	5.7 6.3 6.0 6.7	5.5				
MARVELGREEN + LASER	7.0	6.0	0.0	0.0	16.0	9.0	3.3	3.7 5.7	5.3 5.3	6.3 6.3 5.3 6.3	5.5				
PIROUETTE	7.3	5.7	0.0	0.0	0.0	0.0	27.7	4.0 5.3	5.0 5.3	5.7 6.3 5.7 6.7	5.5				
SABRE	5.3	4.0	25.7	22.0	15.0	16.0	0.0	5.3 7.3	6.3 4.3	6.0 5.7 4.0 5.0	5.5				
WINTERPLAY	5.0	3.7	19.3	14.0	9.3	11.7	4.7	3.7 7.7	6.3 4.3	6.0 5.0 5.0 6.0	5.5				
ELFKIN	8.0	6.3	0.0	0.0	0.0	0.0	16.0	3.0 5.0	4.3 4.7	6.0 6.7 6.7 7.0	5.4				
PRIME	7.7	5.3	0.0	0.0	0.0	0.0	27.0	3.7 4.7	4.0 4.3	6.0 7.0 6.0 7.3	5.4				
PROAM	4.7	4.0	26.0	23.3	29.7	22.3	0.0	4.3 6.7	6.3 4.3	6.7 6.0 4.7 4.3	5.4				
TRANSIST	5.3	6.3	0.0	0.0	6.7	4.0	0.7	4.0 5.0	4.0 5.7	7.0 5.7 6.0 6.0	5.4				
ABT-99-3.268	3.0	5.0	0.0	0.0	12.7	7.7	0.0	3.3 5.0	4.7 5.7	6.7 5.3 5.3 6.7	5.3				
BARIVIERA	6.0	3.3	24.3	18.3	29.0	8.3	0.0	4.7 7.0	6.3 3.7	5.3 5.3 4.3 6.0	5.3				
CAPRI	5.0	5.0	0.0	0.0	0.0	0.0	8.7	2.7 4.7	4.3 5.0	5.7 6.7 6.7 7.0	5.3				
FUTURA 2500	6.0	6.0	0.0	0.0	0.0	0.0	7.7	3.0 4.3	4.0 4.7	6.0 7.0 7.0 6.0	5.3				
LS-DE1	7.7	6.0	0.0	0.0	0.0	0.0	20.3	3.3 4.7	4.3 4.7	5.7 6.3 6.3 6.7	5.3				
MED-007	7.0	4.7	0.0	0.0	0.0	0.0	24.7	4.0 4.7	4.0 4.7	5.7 6.0 6.0 7.0	5.3				
PARAGON	8.3	7.3	0.0	0.0	0.0	0.0	7.0	3.7 5.0	5.0 5.0	5.3 6.3 6.0 6.3	5.3				
PST-3BK-99	9.0	7.0	0.0	0.0	0.0	0.0	16.7	4.3 5.3	5.0 4.7	5.7 5.3 5.0 7.0	5.3				
ALLSPORT	7.0	6.0	0.0	0.0	0.0	0.0	19.7	3.3 4.3	4.0 4.3	5.3 6.3 5.7 7.3	5.1				
MOUNTAIN VIEW 3	7.7	5.3	0.0	0.0	0.0	0.0	17.7	3.7 5.0	4.3 4.3	5.3 6.0 6.0 6.3	5.1				
MP111	8.7	6.3	0.0	0.0	0.0	0.0	21.3	3.3 4.7	4.0 4.7	5.7 6.7 5.7 5.3	5.0				
MP58	8.0	4.7	0.0	0.0	0.0	0.0	35.0	3.7 4.7	4.0 4.3	5.3 6.0 5.3 7.0	5.0				
LSD VALUE	1.1	1.9	7.0	8.6	12.5	8.6	22.0	2.1 1.3	1.3 1.6	1.6 1.2 1.4 1.8	1.4				
C.V. (%)	10.6	17.6	166.7	249.0	156.1	221.0	88.9	21.3 14.4	14.5 13.3	11.1 10.4 13.2 12.2	8.7				

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

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



TABLE 8A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT GARLAND (DALLAS), TX (FIRE WHEEL GOLF PARK)

SEEDBED PREPARATION

Lowered John Deere Fairway Mower from 1/2" down to 3/8". Ran a Lely dethatcher over the fairway and mowed behind. Blew the debris off.

Fertilized the fairway with Milorganite. Silced the fairway in two directions.

MOWING

Initial height 3/8"  
 mowing height during test 1/2"  
 Frequency 3 times per week  
 Type of mower John Deere 3235A

CULTIVATION

Aerification - dates None, too much rain last winter/spring  
 Aerification - type N/A  
 Verticutting N/A  
 Dates of topdressing N/A  
 Other cultural practices None

MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION

We lowered the John Deere 3235A down to 3/8" and also held back on watering to stress it.

OTHER INFORMATION

Course closed for overseeding Two days  
 Landing area Yes  
 Divoting problem no  
 Cart allowed on Test area Yes  
 Traffic patterns no

FERTILIZATION

Date(s)	Product	Rate (lbs./M)
26-Sep-00	Milorganite	1 lb. N
16-Jan-01	15-5-10-2% Iron	1 lb. N
16-May-01	18-6-15-2% Iron	1 lb. N
12-Jun-01	18-6-15-2% Iron	1 lb. N
08-Aug-01	18-6-15-2% Iron	1 lb. N

FUNGICIDES

Date(s)	Product	Rate (oz./M)
None		

HERBICIDES

Date(s)	Product	Rate (oz./M)
February	Pendulum	4 lbs./Acre

INSECTICIDES

Date(s)	Product	Rate (oz./M)
None		

OTHER PRODUCTS

Date(s)	Product	Rate (oz./M)
None		

NOTES/COMMENTS

Last fall (2000) was not one of the best overseeding years we have seen in this area. Temperatures and humidity were high through November. The 419 bermuda became lush and thick which caused competition. We then had the wettest and coldest December in recent history.

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

TABLE 8B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT GARLAND (DALLAS), TX (FIRE WHEEL GOLF PARK) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2000										WINTER PERCENT COVER OF		
	BERMUDA GRASS		OVERSEED GRASS		BERMUDA GRASS		OVERSEED GRASS		BERMUDA GRASS		DORMANCY	LIVING	
	10/12	10/12	10/23	10/23	11/6	11/6	11/20	11/20	12/19	12/19	BERMUDA GRASS	1/22/01	OVERSEED GRASS
CHARGER II	56.7	43.3	40.0	60.0	36.7	63.3	23.3	76.7	16.7	83.3	20.0	80.0	
TRANSIST	46.7	53.3	53.3	46.7	33.3	66.7	26.7	73.3	26.7	73.3	20.0	80.0	
CITATION III	56.7	43.3	40.0	60.0	36.7	63.3	26.7	73.3	23.3	76.7	20.0	80.0	
PARAGON	36.7	63.3	40.0	60.0	36.7	63.3	30.0	70.0	23.3	76.7	33.3	66.7	
BARLENNIUM	53.3	46.7	43.3	56.7	40.0	60.0	26.7	73.3	30.0	70.0	26.7	73.3	
ESSENCE	33.3	66.7	43.3	56.7	43.3	56.7	23.3	76.7	26.7	73.3	23.3	76.7	
MARVELGREEN + LASER	40.0	60.0	36.7	63.3	46.7	53.3	30.0	70.0	23.3	76.7	13.3	86.7	
TOURSTAR	23.3	73.3	36.7	63.3	43.3	56.7	30.0	70.0	23.3	76.7	20.0	80.0	
ABT-99-3.268	33.3	66.7	36.7	63.3	40.0	60.0	33.3	66.7	26.7	73.3	33.3	66.7	
BRIGHTSTAR II + WINTERPLAY	56.7	43.3	46.7	53.3	40.0	60.0	30.0	70.0	23.3	76.7	16.7	83.3	
CITATION III + WINTERSTAR	46.7	53.3	40.0	60.0	43.3	56.7	30.0	70.0	26.7	73.3	20.0	80.0	
FIESTA 3	43.3	56.7	40.0	60.0	43.3	56.7	30.0	70.0	23.3	76.7	20.0	80.0	
LEADERBOARD	33.3	66.7	30.0	70.0	50.0	50.0	33.3	66.7	26.7	73.3	26.7	73.3	
MED-007	36.7	63.3	33.3	66.7	46.7	53.3	30.0	70.0	23.3	76.7	30.0	70.0	
MOUNTAIN VIEW 1	36.7	63.3	46.7	53.3	40.0	60.0	26.7	73.3	26.7	73.3	20.0	80.0	
ALLSPORT	50.0	50.0	46.7	53.3	46.7	53.3	26.7	73.3	26.7	73.3	23.3	76.7	
BRIGHTSTAR II	53.3	46.7	43.3	56.7	36.7	63.3	26.7	73.3	23.3	76.7	20.0	80.0	
CAPRI	43.3	56.7	40.0	60.0	43.3	56.7	36.7	63.3	30.0	70.0	23.3	76.7	
ELFKIN	56.7	43.3	50.0	50.0	36.7	63.3	26.7	73.3	26.7	73.3	23.3	76.7	
FUTURA 2500	36.7	63.3	36.7	63.3	46.7	53.3	33.3	66.7	23.3	76.7	20.0	80.0	
LS-DEL	46.7	53.3	43.3	56.7	43.3	56.7	33.3	66.7	30.0	70.0	33.3	66.7	
MOUNTAIN VIEW 3	43.3	56.7	50.0	50.0	40.0	60.0	33.3	66.7	26.7	73.3	30.0	70.0	
PIROUETTE	56.7	43.3	50.0	50.0	40.0	60.0	30.0	70.0	30.0	70.0	36.7	63.3	
PROFESSIONAL'S SELECT	56.7	43.3	43.3	56.7	40.0	60.0	30.0	70.0	23.3	76.7	16.7	83.3	
PST-3BK-99	56.7	43.3	46.7	53.3	36.7	63.3	30.0	70.0	26.7	73.3	16.7	83.3	
TOP HAT	50.0	50.0	40.0	60.0	43.3	56.7	33.3	66.7	20.0	80.0	23.3	76.7	
MARVELGREEN SUPREME	46.7	53.3	40.0	60.0	40.0	60.0	33.3	66.7	23.3	76.7	23.3	76.7	
PICK HR A-97	50.0	50.0	36.7	63.3	36.7	63.3	26.7	73.3	26.7	73.3	26.7	73.3	
BARIVIERA	56.7	43.3	56.7	43.3	36.7	63.3	30.0	70.0	36.7	63.3	33.3	66.7	
CHARGER	40.0	60.0	43.3	56.7	43.3	56.7	33.3	66.7	26.7	73.3	26.7	73.3	
MOUNTAIN VIEW 2	60.0	40.0	60.0	40.0	40.0	60.0	30.0	70.0	30.0	70.0	26.7	73.3	
PHANTOM	40.0	60.0	40.0	60.0	46.7	53.3	40.0	60.0	30.0	70.0	23.3	76.7	
PRIME	46.7	53.3	50.0	50.0	43.3	56.7	33.3	66.7	26.7	73.3	33.3	66.7	
SEVILLE II	56.7	43.3	40.0	60.0	43.3	56.7	33.3	66.7	36.7	63.3	30.0	70.0	
PROAM	83.3	16.7	60.0	40.0	43.3	56.7	36.7	63.3	30.0	70.0	33.3	66.7	
FIRST CUT	63.3	36.7	53.3	46.7	46.7	53.3	33.3	66.7	30.0	70.0	23.3	76.7	
MP111	63.3	36.7	50.0	50.0	40.0	60.0	33.3	66.7	30.0	70.0	30.0	70.0	
MP58	60.0	40.0	43.3	56.7	50.0	50.0	40.0	60.0	43.3	56.7	43.3	56.7	
SABRE	66.7	33.3	56.7	43.3	40.0	60.0	33.3	66.7	23.3	76.7	23.3	76.7	
SNOWBIRD	50.0	50.0	53.3	46.7	50.0	50.0	40.0	60.0	33.3	66.7	23.3	76.7	
CEBECO BLEND 1	60.0	40.0	43.3	56.7	53.3	46.7	40.0	60.0	30.0	70.0	36.7	63.3	
WINTERPLAY	60.0	40.0	53.3	46.7	46.7	53.3	36.7	63.3	30.0	70.0	36.7	63.3	
LSD VALUE	37.0	37.3	33.3	33.3	19.1	19.1	22.3	22.3	20.6	20.6	21.1	21.1	
C.V. (%)	31.0	30.5	24.9	20.1	16.0	11.7	22.1	10.2	26.3	9.8	34.7	12.1	

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
 STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).  
 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 8B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT GARLAND (DALLAS), TX (FIRE WHEEL GOLF PARK) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001													
	BERMUDA GRASS 2/19	OVERSEED GRASS 2/19	BERMUDA GRASS 3/19	OVERSEED GRASS 3/19	BERMUDA GRASS 4/17	OVERSEED GRASS 4/17	BERMUDA GRASS 5/2	OVERSEED GRASS 5/2	BERMUDA GRASS 5/22	OVERSEED GRASS 5/22	BERMUDA GRASS 6/29	OVERSEED GRASS 6/29	BERMUDA GRASS 7/25	OVERSEED GRASS 7/25
CHARGER II	23.3	76.7	20.0	80.0	80.0	20.0	76.7	23.3	73.3	26.7	73.3	26.7	99.0	1.0
TRANSIST	16.7	83.3	16.7	83.3	80.0	20.0	90.0	10.0	83.3	16.7	86.7	13.3	99.0	1.0
CITATION III	20.0	80.0	23.3	76.7	70.0	30.0	70.0	30.0	76.7	23.3	63.3	36.7	92.7	7.3
PARAGON	30.0	70.0	20.0	80.0	80.0	20.0	70.0	30.0	80.0	20.0	73.3	26.7	99.0	1.0
BARLENNIUM	23.3	76.7	20.0	80.0	73.3	26.7	80.0	20.0	80.0	20.0	76.7	23.3	96.0	4.0
ESSENCE	20.0	80.0	23.3	76.7	73.3	26.7	70.0	30.0	76.7	23.3	83.3	16.7	99.0	1.0
MARVELGREEN + LASER	26.7	73.3	26.7	73.3	70.0	30.0	76.7	23.3	76.7	23.3	76.7	23.3	99.0	1.0
TOURSTAR	26.7	73.3	26.7	73.3	70.0	30.0	66.7	33.3	76.7	23.3	83.3	16.7	99.0	1.0
ABT-99-3.268	16.7	83.3	20.0	80.0	60.0	40.0	76.7	23.3	76.7	23.3	73.3	26.7	99.0	1.0
BRIGHTSTAR II + WINTERPLAY	23.3	76.7	20.0	80.0	73.3	26.7	70.0	30.0	73.3	26.7	66.7	33.3	99.0	1.0
CITATION III + WINTERSTAR	20.0	80.0	23.3	76.7	60.0	40.0	70.0	30.0	76.7	23.3	80.0	20.0	99.0	1.0
FIESTA 3	20.0	80.0	16.7	83.3	73.3	26.7	60.0	40.0	76.7	23.3	60.0	40.0	96.0	4.0
LEADERBOARD	23.3	76.7	20.0	80.0	60.0	40.0	76.7	23.3	80.0	20.0	83.3	16.7	99.0	1.0
MED-007	20.0	80.0	16.7	83.3	70.0	30.0	66.7	33.3	76.7	23.3	66.7	33.3	99.0	1.0
MOUNTAIN VIEW 1	23.3	76.7	30.0	70.0	66.7	33.3	76.7	23.3	76.7	23.3	80.0	20.0	99.0	1.0
ALLSPORT	20.0	80.0	23.3	76.7	76.7	23.3	70.0	30.0	76.7	23.3	73.3	26.7	99.0	1.0
BRIGHTSTAR II	23.3	76.7	20.0	80.0	73.3	26.7	80.0	20.0	76.7	23.3	73.3	26.7	99.0	1.0
CAPRI	26.7	73.3	26.7	73.3	83.3	16.7	80.0	20.0	80.0	20.0	76.7	23.3	96.0	4.0
ELFKIN	23.3	76.7	23.3	76.7	73.3	26.7	80.0	20.0	76.7	23.3	70.0	30.0	96.0	4.0
FUTURA 2500	23.3	76.7	26.7	73.3	76.7	23.3	76.7	23.3	80.0	20.0	66.7	33.3	99.0	1.0
LS-DE1	30.0	70.0	33.3	66.7	73.3	26.7	83.3	16.7	76.7	23.3	86.7	13.3	99.0	1.0
MOUNTAIN VIEW 3	30.0	70.0	46.7	53.3	66.7	33.3	76.7	23.3	76.7	23.3	80.0	20.0	99.0	1.0
PIROUETTE	23.3	76.7	23.3	76.7	76.7	23.3	80.0	20.0	80.0	20.0	73.3	26.7	99.0	1.0
PROFESSIONAL'S SELECT	23.3	76.7	20.0	80.0	76.7	23.3	80.0	20.0	76.7	23.3	70.0	30.0	96.0	4.0
PST-3BK-99	23.3	76.7	26.7	73.3	76.7	23.3	73.3	26.7	80.0	20.0	73.3	26.7	96.0	4.0
TOP HAT	23.3	76.7	23.3	76.7	76.7	23.3	80.0	20.0	80.0	20.0	76.7	23.3	96.0	4.0
MARVELGREEN SUPREME	16.7	83.3	20.0	80.0	63.3	36.7	70.0	30.0	73.3	26.7	50.0	50.0	92.7	7.3
PICK HR A-97	16.7	83.3	16.7	83.3	73.3	26.7	73.3	26.7	73.3	26.7	66.7	33.3	96.0	4.0
BARIVIERA	26.7	73.3	40.0	60.0	56.7	43.3	80.0	20.0	83.3	16.7	83.3	16.7	99.0	1.0
CHARGER	20.0	80.0	26.7	73.3	73.3	26.7	83.3	16.7	76.7	23.3	70.0	30.0	99.0	1.0
MOUNTAIN VIEW 2	26.7	73.3	26.7	73.3	70.0	30.0	70.0	30.0	80.0	20.0	76.7	23.3	92.7	7.3
PHANTOM	26.7	73.3	26.7	73.3	60.0	40.0	76.7	23.3	80.0	20.0	76.7	23.3	99.0	1.0
PRIME	23.3	76.7	30.0	70.0	56.7	43.3	73.3	26.7	76.7	23.3	70.0	30.0	99.0	1.0
SEVILLE II	23.3	76.7	23.3	76.7	73.3	26.7	76.7	23.3	76.7	23.3	73.3	26.7	96.0	4.0
PROAM	30.0	70.0	36.7	63.3	70.0	30.0	66.7	33.3	76.7	23.3	73.3	26.7	99.0	1.0
FIRST CUT	26.7	73.3	40.0	60.0	50.0	50.0	80.0	20.0	73.3	26.7	80.0	20.0	99.0	1.0
MP111	26.7	73.3	40.0	60.0	53.3	46.7	66.7	33.3	76.7	23.3	70.0	30.0	96.0	4.0
MP58	26.7	73.3	36.7	63.3	53.3	46.7	66.7	33.3	73.3	26.7	80.0	20.0	99.0	1.0
SABRE	16.7	83.3	33.3	66.7	46.7	53.3	56.7	43.3	70.0	30.0	76.7	23.3	96.0	4.0
SNOWBIRD	30.0	70.0	46.7	53.3	46.7	53.3	73.3	26.7	76.7	23.3	83.3	16.7	99.0	1.0
CEBECO BLEND 1	30.0	70.0	33.3	66.7	63.3	36.7	70.0	30.0	73.3	26.7	83.3	16.7	99.0	1.0
WINTERPLAY	30.0	70.0	40.0	60.0	56.7	43.3	73.3	26.7	76.7	23.3	73.3	26.7	96.0	4.0
LSD VALUE	13.4	13.4	20.7	20.7	34.0	34.0	25.4	25.4	26.5	26.5	26.2	26.2	15.1	15.1
C.V. (%)	23.5	7.3	36.8	13.6	19.7	42.0	12.7	36.5	7.7	25.9	13.9	40.8	3.8	162.8

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 8B. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT GARLAND (DALLAS), TX (FIRE WHEEL GOLF PARK) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT EARLY ESTABLISHED	GENETIC COLOR 4/27/01	WINTER COLOR 1/22/01	FALL QUALITY IN 2000			WINTER QUALITY 1/22/01	QUALITY RATINGS IN SPRING/SUMMER TRANSITION PERIOD (2001)							QUALITY MEAN
				11/6	11/20	12/19		2/19	3/19	4/17	5/2	5/22	6/29	7/25	
CHARGER II	38.3	8.0	6.7	5.0	6.0	6.7	6.7	7.0	7.0	8.0	7.0	6.3	6.3	6.7	6.6
TRANSIST	36.7	7.7	5.7	5.0	5.3	6.3	6.3	7.7	6.7	8.0	7.0	7.0	6.7	6.3	6.6
CITATION III	31.7	7.7	6.3	5.0	5.7	6.3	7.0	7.0	7.0	7.7	7.0	6.3	5.3	7.0	6.5
PARAGON	35.0	7.3	6.7	5.0	6.0	6.3	6.0	7.0	7.0	8.0	6.0	6.7	5.7	7.3	6.5
BARLENNIUM	35.0	7.7	6.0	4.7	5.7	6.0	6.7	7.3	7.0	7.3	7.3	6.0	6.0	6.3	6.4
ESSENCE	36.7	7.7	6.3	4.7	6.0	6.0	6.3	7.3	6.7	7.7	7.0	6.0	6.0	6.7	6.4
MARVELGREEN + LASER	36.7	7.0	6.3	4.3	6.0	6.3	6.3	7.0	6.3	7.0	7.0	6.3	6.7	7.0	6.4
TOURSTAR	40.0	7.0	6.0	4.7	5.3	6.3	6.3	6.7	7.0	7.3	6.7	6.3	6.7	6.7	6.4
ABT-99-3.268	36.7	7.3	6.0	4.7	5.3	6.3	6.3	7.7	6.7	7.0	7.0	6.7	5.3	6.7	6.3
BRIGHTSTAR II + WINTERPLAY	28.3	7.7	7.0	5.0	5.7	6.3	6.3	7.0	6.7	7.3	6.3	5.3	6.0	7.3	6.3
CITATION III + WINTERSTAR	31.7	7.7	6.3	5.3	5.7	6.0	6.0	7.0	7.0	7.3	6.3	6.3	5.3	6.7	6.3
FIESTA 3	36.7	7.7	7.0	4.7	5.7	6.7	6.0	7.7	7.3	7.7	6.3	5.7	4.7	6.7	6.3
LEADERBOARD	33.3	7.0	6.0	4.7	5.3	6.0	6.3	7.0	7.0	7.0	6.3	6.3	6.3	7.3	6.3
MED-007	30.0	7.3	6.7	4.7	6.0	6.3	6.0	7.0	7.3	7.7	6.7	6.0	5.7	6.0	6.3
MOUNTAIN VIEW 1	41.7	7.7	6.0	5.0	5.3	6.3	6.3	7.0	6.7	7.0	6.7	6.0	6.0	7.0	6.3
ALLSPORT	30.0	7.7	6.3	4.3	5.0	6.3	6.3	7.0	6.7	7.0	6.7	6.3	6.3	6.7	6.2
BRIGHTSTAR II	33.3	7.3	6.0	5.0	5.7	6.3	6.3	6.7	6.7	7.3	7.0	6.0	5.0	6.3	6.2
CAPRI	33.3	7.3	6.7	4.3	5.3	6.0	6.0	6.3	6.3	7.7	6.3	6.7	6.3	6.7	6.2
ELFKIN	31.7	7.3	6.7	4.7	5.7	6.3	6.0	7.0	6.7	7.3	6.7	6.0	5.0	6.3	6.2
FUTURA 2500	30.0	7.3	6.3	4.7	5.3	6.0	6.0	6.7	6.3	8.0	6.7	6.3	5.7	6.3	6.2
LS-DE1	30.0	7.7	5.7	4.7	5.3	6.0	6.0	6.3	6.3	7.3	7.0	6.0	6.3	7.0	6.2
MOUNTAIN VIEW 3	31.7	7.0	5.7	5.0	5.3	6.0	6.0	6.7	5.7	6.7	6.3	6.7	7.0	7.3	6.2
PIROUETTE	28.3	8.0	6.0	4.3	5.0	6.0	5.7	6.7	6.3	8.0	7.0	6.3	6.0	7.0	6.2
PROFESSIONAL'S SELECT	40.0	8.0	6.3	4.7	5.3	6.3	6.3	6.7	6.0	7.7	7.3	6.7	5.0	6.0	6.2
PST-3BK-99	31.7	7.0	6.7	5.0	5.3	6.0	6.3	7.0	6.3	6.7	6.7	5.7	6.0	7.3	6.2
TOP HAT	25.0	7.7	6.7	4.7	5.7	6.0	5.7	7.0	6.7	7.7	7.0	6.3	5.0	6.3	6.2
MARVELGREEN SUPREME	35.0	7.3	7.0	4.3	5.7	6.3	6.3	7.3	7.0	7.3	7.0	5.0	4.7	6.0	6.1
PICK HR A-97	33.3	7.7	6.0	4.7	5.7	6.3	6.3	7.3	6.3	8.0	6.7	5.7	4.3	6.0	6.1
BARIVIERA	33.3	7.3	5.0	5.0	5.3	5.3	6.0	6.7	5.3	6.7	5.7	6.3	6.0	7.3	6.0
CHARGER	40.0	7.7	6.0	4.3	5.0	6.0	6.0	7.0	6.0	7.3	6.7	6.0	5.3	6.7	6.0
MOUNTAIN VIEW 2	31.7	7.7	6.3	4.3	5.3	6.3	6.3	6.3	6.7	7.0	6.3	6.0	5.3	6.3	6.0
PHANTOM	35.0	7.3	7.0	4.0	5.0	6.0	6.0	6.3	6.3	7.0	6.0	6.0	6.3	7.0	6.0
PRIME	31.7	7.3	6.0	4.3	5.3	6.3	6.0	7.0	6.0	7.0	6.7	5.3	5.7	6.7	6.0
SEVILLE II	35.0	7.3	6.3	4.7	5.3	5.7	6.3	7.3	6.3	7.3	6.7	6.0	5.0	5.7	6.0
PROAM	35.0	7.3	5.3	4.3	5.0	5.7	5.7	6.3	5.7	7.3	6.3	5.7	6.0	6.7	5.9
FIRST CUT	30.0	7.3	5.7	4.0	5.0	5.7	6.7	6.7	5.0	6.7	6.0	5.3	6.0	6.3	5.8
MP111	28.3	7.3	5.3	4.7	4.7	6.0	5.7	6.7	6.0	6.0	6.3	5.7	5.3	6.7	5.8
MP58	33.3	7.3	5.7	4.7	4.7	5.0	5.3	6.3	6.0	7.0	6.0	5.7	6.0	6.7	5.8
SABRE	36.7	7.0	6.0	4.3	5.0	6.7	6.3	7.3	5.7	6.7	5.7	5.3	5.0	6.0	5.8
SNOWBIRD	36.7	7.0	5.7	4.3	5.0	5.7	6.0	6.3	5.7	6.3	5.3	5.7	6.3	7.0	5.8
CEBECO BLEND 1	33.3	7.3	6.0	4.0	4.7	5.7	5.3	6.7	6.0	7.0	5.7	5.7	5.7	6.7	5.7
WINTERPLAY	31.7	7.0	6.0	4.0	4.3	5.7	5.7	6.3	5.3	6.7	6.0	6.3	5.3	7.0	5.7
LSD VALUE	25.4	1.9	1.1	1.5	1.6	2.0	1.6	2.3	1.6	2.8	1.5	3.1	4.8	4.3	1.1
C.V. (%)	19.8	7.0	9.2	10.9	11.0	9.6	8.7	9.6	11.2	11.3	9.7	13.6	21.0	14.2	6.0

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 9A. 2000-01 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT THE WOODLANDS, TX (THE WOODLANDS GOLF COURSE)

SEEDBED PREPARATION		FERTILIZATION		
	Primo @ 9 oz. Per acre.	Date(s)	Product	Rate (lbs./M)
MOWING		1-Dec-00 every month	Starter fertilizer CaNO <sub>3</sub>	0.5 lb. N
Initial height	0.5"			
mowing height during test	0.44"			
Frequency	3 times per week	FUNGICIDES		
Type of mower	5 gang lightweight	Date(s)	Product	Rate (oz./M)
CULTIVATION		None		
		HERBICIDES		
Aerification - dates	Spring	Date(s)	Product	Rate (oz./M)
Aerification - type	0.5" hollow tine			
Verticutting		None		
Dates of topdressing		INSECTICIDES		
Other cultural practices		Date(s)	Product	Rate (oz./M)
MAINTENANCE PRACTICES TO ENHANCE SPRING		None		
Lower mowing height, Primo applications, drying cycle.		OTHER PRODUCTS		
		Date(s)	Product	Rate (oz./M)
OTHER INFORMATION		every month	Split applications of Pennant Primo	9 oz./Acre
Course closed for overseeding	Yes, for 1 week			
Landing area	short of landing area			
Divoting problem	minor divoting			
Cart allowed on Test area	Yes, after establishment	NOTES/COMMENTS		
Traffic patterns	not evident	Superintendent left course in April and is unsure of exact rates and dates.		

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TABLE 9B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT THE WOODLANDS (HOUSTON), TX (THE WOODLANDS GOLF COURSE) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	FALL PERCENT COVER OF LIVING GRASSES		WINTER PERCENT COVER		PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001											
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
MARVELGREEN + LASER	16.7	83.3	18.3	81.7	13.3	86.7	16.7	50.0	12.7	81.7	13.3	86.0	80.0	13.3	99.0	0
SNOWBIRD	10.0	90.0	10.0	90.0	6.7	93.3	13.3	81.7	6.3	92.0	11.7	88.3	71.7	15.0	91.7	0
WINTERPLAY	15.0	85.0	13.3	86.7	6.7	93.3	15.0	80.0	10.0	89.3	11.7	88.0	71.7	15.0	96.3	0
FIRST CUT	23.3	76.7	15.0	85.0	10.0	90.0	35.0	55.0	18.0	78.3	19.7	78.3	87.0	10.0	97.7	0
PROAM	13.3	86.7	11.7	88.3	5.7	94.3	15.0	78.3	8.0	92.0	11.0	89.0	68.3	16.7	93.3	0
BARIVIERA	15.0	85.0	15.0	85.0	4.0	96.0	11.7	83.3	8.3	91.7	9.0	87.7	70.0	16.7	94.7	0
CITATION III + WINTERSTAR	38.3	61.7	36.7	63.3	18.3	81.7	35.0	58.3	16.7	76.7	22.0	73.3	86.7	8.3	99.0	0
SABRE	10.0	90.0	11.7	88.3	4.7	95.3	10.0	55.0	9.7	89.3	11.7	86.7	73.3	11.7	95.0	0
BRIGHTSTAR II + WINTERPLAY	25.0	75.0	20.0	80.0	20.0	80.0	23.3	71.7	15.7	81.7	19.0	79.3	75.0	13.3	97.7	0
CHARGER II	31.7	68.3	30.0	70.0	20.0	80.0	43.3	41.7	81.7	6.0	88.0	3.0	99.0	0.0	99.0	0
ELFKIN	25.0	75.0	26.7	73.3	21.7	78.3	45.0	48.3	68.0	17.0	79.3	10.3	99.0	0.0	99.0	0
MARVELGREEN SUPREME	35.0	65.0	33.3	66.7	21.7	78.3	38.3	28.3	68.0	15.3	78.3	10.0	99.0	0.0	99.0	0
MED-007	38.3	61.7	31.7	68.3	23.3	76.7	38.3	46.7	71.0	10.7	84.0	5.0	99.0	0.0	99.0	0
SEVILLE II	38.3	61.7	36.7	63.3	26.7	73.3	28.3	56.7	68.3	15.0	79.0	11.0	97.7	0.0	99.0	0
BARLENNIUM	35.0	65.0	35.0	65.0	26.7	73.3	36.7	50.0	77.7	7.3	88.0	4.3	99.0	0.0	99.0	0
FIESTA 3	36.7	63.3	38.3	61.7	21.7	78.3	31.7	53.3	72.7	10.7	81.3	7.3	99.0	0.0	99.0	0
LEADERBOARD	31.7	68.3	35.0	65.0	23.3	76.7	33.3	53.3	76.3	10.3	84.3	5.0	99.0	0.0	99.0	0
LS-DEL	46.7	53.3	45.0	55.0	23.3	76.7	38.3	45.0	72.7	12.3	78.7	8.7	99.0	0.0	99.0	0
MOUNTAIN VIEW 2	45.0	55.0	38.3	61.7	23.3	76.7	45.0	40.0	77.3	5.7	83.3	3.3	99.0	0.0	99.0	0
PARAGON	30.0	70.0	31.7	68.3	23.3	76.7	26.7	60.0	77.3	7.0	81.0	5.7	99.0	0.0	99.0	0
PRIME	38.3	61.7	36.7	63.3	35.0	65.0	36.7	45.0	70.7	14.3	78.7	6.0	99.0	0.0	99.0	0
PST-3BK-99	48.3	51.7	40.0	60.0	25.0	75.0	40.0	43.3	79.0	3.0	83.3	2.0	97.7	0.0	99.0	0
TOP HAT	33.3	66.7	28.3	71.7	21.7	78.3	33.3	56.7	78.7	7.3	82.7	8.3	99.0	0.0	99.0	0
TOURSTAR	33.3	66.7	31.7	68.3	23.3	76.7	31.7	48.3	70.0	13.3	85.0	8.3	99.0	0.0	99.0	0
BRIGHTSTAR II	48.3	51.7	46.7	53.3	38.3	61.7	33.3	51.7	73.3	11.7	84.3	4.0	99.0	0.0	99.0	0
CEBECO BLEND 1	33.3	66.7	25.0	75.0	21.7	78.3	30.0	50.0	77.0	6.3	82.3	5.3	99.0	0.0	99.0	0
CHARGER	41.7	58.3	28.3	71.7	28.3	71.7	38.3	46.7	85.0	2.7	86.0	2.3	99.0	0.0	99.0	0
ESSENCE	38.3	61.7	35.0	65.0	18.3	81.7	41.7	48.3	76.0	7.3	83.3	6.0	98.7	0.0	97.7	0
MOUNTAIN VIEW 3	40.0	60.0	38.3	61.7	25.0	75.0	28.3	56.7	66.7	13.3	80.7	7.7	97.7	0.0	99.0	0
PIROUETTE	43.3	56.7	40.0	60.0	30.0	70.0	48.3	33.3	81.0	4.0	82.3	3.7	99.0	0.0	99.0	0
TRANSIST	40.0	60.0	35.0	65.0	20.0	80.0	26.7	56.7	81.7	8.7	83.3	7.3	99.0	0.0	99.0	0
ALLSPORT	41.7	58.3	36.7	63.3	26.7	73.3	20.0	65.0	76.7	9.3	83.7	6.3	96.0	0.0	96.0	0
CAPRI	38.3	61.7	26.7	73.3	20.0	80.0	35.0	46.7	71.7	11.7	83.7	4.0	99.0	0.0	99.0	0
CITATION III	31.7	68.3	38.3	61.7	35.0	65.0	30.0	55.0	80.0	4.0	83.7	0.7	99.0	0.0	99.0	0
FUTURA 2500	36.7	63.3	36.7	63.3	23.3	76.7	31.7	51.7	75.0	10.0	81.7	6.0	99.0	0.0	99.0	0
MOUNTAIN VIEW 1	46.7	53.3	43.3	56.7	23.3	76.7	40.0	30.0	71.7	10.3	82.0	6.3	96.0	0.0	99.0	0
MP58	50.0	50.0	50.0	50.0	43.3	56.7	36.7	43.3	58.3	20.0	79.3	7.3	99.0	0.0	99.0	0
PHANTOM	43.3	56.7	45.0	55.0	26.7	73.3	35.0	43.3	70.0	10.7	77.7	7.3	97.7	0.0	96.0	0
PICK HR A-97	48.3	51.7	41.7	58.3	28.3	71.7	41.7	41.7	73.3	10.0	81.3	8.7	97.7	0.0	96.0	0
PROFESSIONAL'S SELECT	41.7	58.3	36.7	63.3	23.3	76.7	30.0	56.7	76.7	11.7	80.3	8.0	99.0	0.0	99.0	0
MP111	63.3	36.7	55.0	45.0	40.0	60.0	30.0	35.0	68.3	11.7	80.7	4.3	98.7	0.0	97.7	0
ABT-99-3.268	30.0	70.0	20.0	80.0	13.3	86.7	30.0	46.7	80.7	3.0	82.7	1.3	99.0	0.0	99.0	0
LSD VALUE	14.9	14.9	9.8	9.8	10.7	10.7	27.4	28.7	12.1	11.4	8.8	7.4	4.6	7.0	3.7	-
C.V. (%)	26.3	14.1	20.0	9.5	30.2	8.7	38.6	28.0	13.6	30.2	9.0	22.7	3.4	151.8	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 9B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT THE WOODLANDS (HOUSTON), TX (THE WOODLANDS GOLF COURSE) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT	GENETIC COLOR	FALL QUALITY	WINTER QUALITY	SPRING/SUMMER QUALITY RATINGS IN 2001						QUALITY MEAN
	EARLY ESTABLISHED				2/22	3/33	4/11	5/8	5/30	6/21	
MARVELGREEN + LASER	70.0	5.3	5.7	6.0	7.0	7.3	7.3	7.7	5.0	5.7	6.5
SNOWBIRD	71.7	4.3	6.3	6.7	7.0	6.3	8.0	8.0	4.0	5.0	6.4
WINTERPLAY	75.0	5.0	5.7	6.7	6.7	6.7	7.7	8.0	4.3	5.3	6.4
FIRST CUT	71.7	5.7	5.0	6.0	6.0	6.7	7.0	7.7	5.3	5.7	6.2
PROAM	76.7	4.7	6.0	6.7	7.3	6.0	7.7	7.7	3.7	4.7	6.2
BARIVIERA	73.3	4.3	5.7	6.0	6.7	6.3	7.0	7.7	4.3	5.0	6.1
CITATION III + WINTERSTAR	68.3	6.7	5.0	5.3	7.3	6.0	6.0	7.0	5.3	6.0	6.0
SABRE	81.7	4.7	6.0	6.3	6.7	6.7	7.3	6.7	3.7	5.0	6.0
BRIGHTSTAR II + WINTERPLAY	61.7	6.0	5.0	6.0	6.0	6.3	7.0	7.3	4.0	5.7	5.9
CHARGER II	55.0	7.7	5.0	5.3	6.7	6.7	5.7	6.0	6.0	6.0	5.9
ELFKIN	63.3	7.3	5.0	5.7	7.0	6.0	4.7	6.0	6.0	6.0	5.8
MARVELGREEN SUPREME	63.3	7.7	5.0	4.7	6.7	6.0	5.3	6.0	6.3	6.0	5.8
MED-007	60.0	7.7	5.0	5.0	6.7	6.3	5.3	6.0	6.0	6.0	5.8
SEVILLE II	61.7	8.0	5.0	5.0	7.0	6.3	5.3	6.0	6.0	6.0	5.8
BARLENNIUM	68.3	8.0	5.0	4.7	6.7	6.0	5.0	6.0	6.3	6.0	5.7
FIESTA 3	61.7	8.0	5.0	4.7	6.3	6.3	5.0	6.0	6.0	6.0	5.7
LEADERBOARD	65.0	7.7	5.0	5.0	6.7	5.3	5.0	6.0	6.3	6.0	5.7
LS-DE1	60.0	8.0	5.0	4.7	7.0	5.7	5.3	6.0	6.0	6.0	5.7
MOUNTAIN VIEW 2	51.7	7.3	5.0	4.7	6.0	6.0	5.3	6.0	6.7	6.0	5.7
PARAGON	65.0	7.7	5.0	5.0	6.7	5.3	5.0	6.0	6.3	6.0	5.7
PRIME	60.0	7.7	5.0	5.0	6.3	6.0	5.3	6.0	6.0	6.0	5.7
PST-3EK-99	33.3	8.0	5.0	4.7	6.7	6.0	5.3	6.0	6.0	6.0	5.7
TOP HAT	63.3	6.3	5.0	5.0	6.0	6.3	5.0	6.0	6.0	6.0	5.7
TOURSTAR	61.7	7.3	5.0	5.0	6.3	6.3	5.0	6.0	6.0	6.0	5.7
BRIGHTSTAR II	40.0	8.0	5.0	4.7	6.0	6.0	5.3	6.0	6.0	6.0	5.6
CEBECO BLEND 1	61.7	6.3	5.0	5.0	6.0	5.7	5.0	6.0	6.0	6.0	5.6
CHARGER	56.7	6.0	5.0	5.0	6.3	5.7	4.7	6.0	6.0	6.0	5.6
ESSENCE	58.3	6.3	5.0	4.7	6.0	6.0	5.3	6.0	6.0	5.7	5.6
MOUNTAIN VIEW 3	58.3	7.3	5.0	4.7	6.0	6.3	5.0	6.0	6.0	6.0	5.6
PIROUETTE	58.3	7.7	5.0	4.7	6.3	5.7	5.0	6.0	6.0	6.0	5.6
TRANSIST	51.7	5.3	5.0	5.0	6.0	4.7	5.3	6.0	6.7	6.0	5.6
ALLSPORT	66.7	7.0	5.0	4.7	6.3	5.7	5.3	6.0	5.7	5.3	5.5
CAPRI	53.3	6.0	5.0	5.0	6.0	5.0	4.7	6.0	6.0	6.0	5.5
CITATION III	56.7	8.0	5.0	4.3	6.3	5.7	4.7	6.0	6.3	6.0	5.5
FUTURA 2500	63.3	6.7	5.0	5.0	6.0	5.0	5.0	6.0	6.0	6.0	5.5
MOUNTAIN VIEW 1	61.7	7.3	5.0	4.7	6.0	6.0	4.7	6.0	5.7	6.0	5.5
MP58	53.3	7.7	5.0	4.3	6.3	5.7	5.0	6.0	6.0	6.0	5.5
PHANTOM	51.7	7.7	5.0	4.0	5.7	5.7	5.0	6.0	6.3	5.3	5.4
PICK HR A-97	51.7	6.0	5.0	4.7	6.0	5.0	5.3	6.0	5.7	5.3	5.4
PROFESSIONAL'S SELECT	68.3	7.0	5.0	4.7	6.3	5.0	4.3	6.0	6.0	6.0	5.4
MP111	43.3	8.0	5.0	4.0	5.3	5.7	5.0	5.7	6.0	5.7	5.3
ABT-99-3.268	71.7	4.0	4.7	4.3	6.3	3.3	5.0	6.0	6.0	6.0	5.2
LSD VALUE	23.6	0.6	0.3	0.7	2.8	1.1	1.2	0.5	1.1	0.9	0.4
C.V. (%)	18.8	6.5	3.8	8.9	12.1	10.6	13.0	5.0	11.8	7.4	4.6

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 10A.2000-01 MANAGEMENT- ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT CHARLOTTESVILLE, VA (GLENMORE COUNTRY CLUB)

SEEDBED PREPARATION

None, seed spread over the area where aerified 6 weeks before seedings, which provide somewhat of a better seedbed.

MOWING

Initial height 5/8"  
 mowing height during test 5/8"  
 Frequency 3 times per week  
 Type of mower

CULTIVATION

Aerification - dates  
 Aerification - type  
 Verticutting  
 Dates of topdressing  
 Other cultural practices

MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION

OTHER INFORMATION

Course closed for overseeding No  
 Landing area No  
 Divoting problem  
 Cart allowed on Test area Yes, carts were allowed  
 Traffic patterns No

NOTES/COMMENTS

FERTILIZATION

Date(s) Product Rate (lbs./M)

Fertigation used for fertilizer applications, fertilizer applied 20 tons/Acre.

Sep-00 4 lbs. N, 13 lbs. P, 13 lbs.K per Arec  
 Oct-00 6.5 lbs. N, 23 lbs. P, 23 lbs.K per Arec  
 Nov-00 2.5 lbs. N, 10 lbs. P, 10 lbs.K per Arec  
 Apr-01 17 lbs. N, 3 lbs. P, 6 lbs.K per Arec  
 May-01 11 lb. N, 2 lb. P, 41 lb. K  
 Jun-01 32 lb. N, 5.5 lb. P, 111 lb. K  
 Jul-01 90 lb. N, 15 lb. P, 30 lb. K

FUNGICIDES

Date(s) Product Rate (oz./M)  
 None

HERBICIDES

Date(s) Product Rate (oz./M)  
 None

INSECTICIDES

Date(s) Product Rate (oz./M)  
 4-Aug-00 Merit WSP 6.4

OTHER PRODUCTS

Date(s) Product Rate (oz./M)  
 25-Jun-01 Primo 0.25  
 16-Jul-01 Primo 0.32  
 8/6, 8/28/00 Primo 0.38

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TABLE 10B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
 1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
 AT CHARLOTTEVILLE, VA (GLENMORE COUNTRY CLUB) 1/  
 2000-01 DATA  
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	FALL PERCENT COVER OF LIVING OVERSEEDING GRASS		WINTER PERCENT COVER DORMANCY BERMUDA GRASS / LIVING OVERSEED GRASS		PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD IN 2001							
	11/29/00	11/29/00	2/13/01	2/13/01	3/27	4/7	5/2	5/2	5/31	5/31	6/27	6/27
					GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
PROAM	66.7	70.0	26.7	73.3	83.3	86.7	28.3	70.0	20.0	80.0	56.7	0.0
SABRE	76.7	76.7	18.3	81.7	85.0	83.3	26.7	73.3	46.7	53.3	66.7	0.0
SNOWBIRD	63.3	70.0	30.0	70.0	83.3	86.7	28.3	70.0	23.3	76.7	66.7	6.7
BARIVIERA	60.0	73.3	36.7	63.3	80.0	78.3	33.3	65.0	23.3	76.7	63.3	16.7
FIRST CUT	66.7	66.7	46.7	53.3	70.0	70.0	30.0	68.3	56.7	43.3	70.0	16.7
MARVELGREEN + LASER	70.0	63.3	50.0	50.0	66.7	70.0	30.0	68.3	33.3	66.7	66.7	15.0
MOUNTAIN VIEW 2	60.0	63.3	56.7	43.3	70.0	73.3	35.0	63.3	73.3	26.7	73.3	8.3
PHANTOM	66.7	60.0	43.3	56.7	66.7	66.7	38.3	60.0	56.7	43.3	76.7	10.0
WINTERPLAY	56.7	60.0	40.0	60.0	80.0	76.7	31.7	66.7	33.3	66.7	66.7	10.0
BARLENNIUM	56.7	63.3	60.0	40.0	66.7	75.0	28.3	68.3	76.7	23.3	56.7	26.7
CEBECO BLEND 1	63.3	66.7	56.7	43.3	68.3	70.0	31.7	65.0	86.7	13.3	76.7	16.7
ESSENCE	60.0	60.0	60.0	40.0	66.7	66.7	35.0	63.3	70.0	30.0	86.7	6.7
PIROUETTE	50.0	63.3	60.0	40.0	70.0	70.0	30.0	66.7	86.7	13.3	66.7	23.3
TOP HAT	60.0	50.0	56.7	43.3	66.7	66.7	35.0	63.3	90.0	10.0	81.7	25.0
BRIGHTSTAR II + WINTERPLAY	56.7	60.0	53.3	46.7	56.7	70.0	38.3	58.3	36.7	63.3	50.0	20.0
CHARGER	56.7	46.7	70.0	30.0	60.0	60.0	30.0	66.7	86.7	13.3	76.7	13.3
CITATION III	56.7	63.3	50.0	50.0	70.0	73.3	30.0	66.7	63.3	36.7	76.7	10.0
CITATION III + WINTERSTAR	56.7	58.3	58.3	41.7	60.0	66.7	28.3	68.3	43.3	56.7	60.0	10.0
MARVELGREEN SUPREME	56.7	60.0	60.0	40.0	60.0	63.3	28.3	66.7	73.3	26.7	76.7	11.7
MOUNTAIN VIEW 3	53.3	53.3	60.0	40.0	66.7	63.3	38.3	58.3	80.0	20.0	73.3	20.0
PARAGON	66.7	60.0	63.3	36.7	70.0	73.3	28.3	66.7	88.3	11.7	76.7	20.0
ALLSPORT	46.7	53.3	70.0	30.0	56.7	66.7	33.3	63.3	81.7	18.3	60.0	16.7
ELFKIN	56.7	60.0	61.7	38.3	73.3	70.0	28.3	66.7	76.7	23.3	66.7	28.3
FUTURA 2500	50.0	50.0	65.0	35.0	60.0	63.3	35.0	58.3	63.3	36.7	70.0	10.0
LEADERBOARD	53.3	56.7	56.7	43.3	63.3	66.7	35.0	63.3	70.0	30.0	60.0	30.0
MED-007	50.0	50.0	68.3	31.7	56.7	66.7	30.0	65.0	91.7	8.3	63.3	35.0
PROFESSIONAL'S SELECT	46.7	56.7	70.0	30.0	63.3	60.0	30.0	66.7	76.7	23.3	63.3	23.3
TOURSTAR	43.3	43.3	71.7	28.3	63.3	60.0	33.3	63.3	80.0	20.0	71.7	23.3
BRIGHTSTAR II	50.0	50.0	63.3	36.7	53.3	60.0	30.0	65.0	86.7	13.3	76.7	20.0
CAPRI	43.3	43.3	66.7	33.3	70.0	73.3	30.0	66.7	70.0	30.0	90.0	6.7
CHARGER II	53.3	56.7	60.0	40.0	63.3	66.7	33.3	61.7	80.0	20.0	70.0	18.3
FIESTA 3	40.0	43.3	73.3	26.7	60.0	60.0	33.3	60.0	91.7	8.3	70.0	25.0
MOUNTAIN VIEW 1	43.3	46.7	71.7	28.3	60.0	66.7	38.3	55.0	76.7	23.3	73.3	16.7
PICK HR A-97	46.7	46.7	60.0	40.0	60.0	63.3	35.0	60.0	90.0	10.0	81.7	15.0
PST-3BK-99	46.7	50.0	66.7	33.3	63.3	60.0	36.7	56.7	80.0	20.0	79.7	15.3
SEVILLE II	46.7	46.7	60.0	40.0	53.3	63.3	31.7	63.3	76.7	23.3	73.3	21.7
TRANSIST	40.0	36.7	68.3	31.7	56.7	60.0	41.7	53.3	83.3	16.7	85.0	10.0
MP111	40.0	40.0	75.0	25.0	46.7	53.3	35.0	56.7	76.7	23.3	66.7	25.0
MP58	50.0	43.3	60.0	40.0	56.7	56.7	33.3	60.0	83.3	16.7	60.0	33.3
PRIME	33.3	36.7	71.7	28.3	53.3	63.3	35.0	60.0	90.0	10.0	70.0	21.7
ABT-99-3.268	53.3	53.3	60.0	40.0	73.3	73.3	28.3	60.0	73.3	26.7	76.7	15.0
LS-DEL	41.7	43.3	70.0	30.0	66.7	63.3	28.3	60.0	66.7	33.3	70.0	16.7
LSD VALUE	24.0	23.6	14.6	14.6	13.8	15.0	14.0	14.4	21.6	21.6	37.5	25.5
C.V. (%)	21.4	21.2	15.8	22.1	12.3	11.8	16.2	9.5	19.9	45.1	18.5	63.8

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

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

TABLE 10B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE  
1999 USGA/GCSAA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST  
AT CHARLOTTESVILLE, VA (GLENMORE COUNTRY CLUB) 1/  
2000-01 DATA  
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT	GENETIC	WINTER	PERCENT	FALL QUALITY IN 2000			WINTER QUALITY		SPRING/SUMMER QUALITY RATINGS IN 2001						QUALITY
	EARLY				COLOR	COLOR	POA TRIV.	11/14	11/29	12/18	1/23	2/13	3/27	4/7	4/26	
	ESTABLISHED	COLOR	COLOR		11/14	11/29	12/18	2001	2001	3/27	4/7	4/26	5/2	5/31	6/27	
PROAM	43.3	4.7	3.3	53.3	3.3	3.7	3.7	3.7	3.3	3.7	4.0	4.3	6.3	7.0	6.7	4.5
SABRE	53.3	4.7	3.0	33.3	3.3	4.0	3.3	3.7	3.7	3.3	3.3	4.0	6.7	7.0	7.0	4.5
SNOWBIRD	50.0	5.0	3.0	26.7	4.0	4.0	3.0	3.7	3.7	3.3	4.0	3.7	6.3	7.0	6.3	4.5
BARIVIERA	33.3	5.7	3.7	20.0	3.0	3.7	3.0	3.3	3.7	3.0	3.7	3.7	6.0	7.0	5.7	4.2
FIRST CUT	41.7	5.7	4.0	13.3	3.3	3.7	3.3	3.0	3.0	3.0	3.3	3.3	6.0	7.0	6.7	4.2
MARVELGREEN + LASER	36.7	5.3	3.3	18.3	3.7	4.0	3.0	3.0	3.0	3.0	3.0	3.3	6.0	7.3	7.0	4.2
MOUNTAIN VIEW 2	30.0	5.7	3.0	18.3	3.3	3.7	3.0	3.0	3.0	3.0	3.3	3.3	6.0	7.3	7.0	4.2
PHANTOM	40.0	6.0	3.3	13.3	3.3	3.7	3.0	3.0	3.3	3.0	3.3	3.3	5.7	7.3	7.0	4.2
WINTERPLAY	38.3	5.3	3.3	23.3	3.7	3.3	3.0	3.3	3.3	3.0	3.3	3.3	6.0	7.0	6.7	4.2
BARLENNIUM	30.0	6.7	4.0	16.7	3.3	3.7	3.3	2.7	3.0	3.0	3.3	3.3	5.3	7.3	7.0	4.1
CEBECO BLEND 1	33.3	5.0	3.7	5.0	3.0	4.0	3.0	2.7	3.0	3.0	3.0	3.3	5.7	7.7	7.0	4.1
ESSENCE	33.3	4.3	4.0	6.7	3.3	3.7	3.0	2.3	3.0	3.0	3.0	3.7	6.0	7.3	7.0	4.1
PIROUETTE	30.0	5.7	4.0	10.0	3.0	3.7	3.3	2.7	3.0	3.3	3.3	3.3	5.3	7.3	7.0	4.1
TOP HAT	36.7	5.0	4.0	3.3	3.7	3.7	3.0	2.7	3.0	3.0	3.0	3.3	6.0	7.0	7.0	4.1
BRIGHTSTAR II + WINTERPLAY	33.3	5.7	3.7	30.0	3.3	3.3	3.0	3.3	3.0	3.0	3.0	3.0	5.3	7.0	6.3	4.0
CHARGER	28.3	4.7	4.0	10.0	3.7	3.7	2.7	2.7	2.7	3.0	3.0	3.0	5.0	7.3	7.0	4.0
CITATION III	35.0	6.0	3.7	13.3	3.3	3.3	3.0	2.7	2.7	3.0	3.7	3.3	5.3	7.0	7.0	4.0
CITATION III + WINTERSTAR	30.0	5.0	3.3	30.0	3.3	3.7	2.7	3.3	3.0	3.0	3.0	3.0	5.3	7.0	7.0	4.0
MARVELGREEN SUPREME	33.3	5.7	3.3	11.7	3.3	3.7	3.0	2.3	3.0	3.0	3.0	3.0	5.3	7.3	7.0	4.0
MOUNTAIN VIEW 3	26.7	6.0	3.7	6.7	3.0	3.3	3.0	2.0	3.3	3.0	3.0	3.3	5.3	7.3	7.0	4.0
PARAGON	31.7	7.0	4.0	3.3	3.3	3.7	3.0	2.7	3.0	3.0	3.3	3.3	5.0	7.0	7.0	4.0
ALLSPORT	26.7	5.7	4.0	6.7	3.3	3.3	2.7	2.7	2.7	3.0	3.0	3.0	5.3	7.3	7.0	3.9
ELFKIN	28.3	5.7	4.0	5.0	3.0	3.3	3.0	2.7	2.7	3.0	3.3	3.0	5.0	7.0	6.7	3.9
FUTURA 2500	26.7	5.7	3.7	20.0	3.3	3.7	3.0	2.7	2.7	3.0	3.0	3.0	5.0	6.3	7.0	3.9
LEADERBOARD	35.0	5.7	3.7	10.0	3.3	3.3	3.0	3.0	2.7	3.0	3.3	3.3	4.7	6.7	7.0	3.9
MED-007	28.3	5.3	3.7	1.7	3.0	3.0	3.0	2.7	2.7	3.0	3.3	3.0	5.0	7.0	7.0	3.9
PROFESSIONAL'S SELECT	30.0	5.7	3.7	13.3	3.3	3.0	3.0	2.7	2.7	3.0	3.0	3.0	5.0	7.3	7.0	3.9
TOURSTAR	26.7	6.0	3.7	5.0	3.0	3.0	3.0	2.0	2.7	3.0	3.0	3.3	5.7	7.0	7.0	3.9
BRIGHTSTAR II	26.7	6.7	4.0	3.3	3.0	3.0	3.0	2.3	2.7	3.0	3.0	2.7	5.0	7.0	7.0	3.8
CAPRI	30.0	5.3	4.0	3.3	3.3	3.0	2.7	2.7	2.7	3.0	3.3	3.0	5.0	6.7	7.0	3.8
CHARGER II	28.3	5.7	4.0	11.7	3.0	3.0	3.0	2.3	2.7	3.0	3.0	3.0	5.0	7.0	7.0	3.8
FIESTA 3	28.3	6.3	4.0	5.0	3.0	3.3	3.0	2.0	2.7	3.0	3.0	3.0	4.7	7.0	7.0	3.8
MOUNTAIN VIEW 1	23.3	5.7	4.0	10.0	3.0	3.0	3.0	2.0	2.7	3.0	3.0	3.0	4.7	7.0	7.0	3.8
PICK HR A-97	26.7	5.7	4.0	3.3	3.0	3.0	3.0	2.7	2.7	3.0	3.0	3.0	5.0	7.0	6.7	3.8
PST-3BK-99	26.7	5.7	3.7	5.0	3.0	3.0	3.0	2.7	2.7	3.0	3.0	3.0	5.0	7.0	7.0	3.8
SEVILLE II	30.0	6.7	4.0	5.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	5.0	7.0	7.0	3.8
TRANSIST	21.7	5.3	4.0	5.0	3.0	3.0	3.0	2.3	2.7	3.0	3.0	3.0	5.0	6.7	7.0	3.8
MP111	20.0	6.0	4.0	8.3	3.0	3.0	3.0	2.3	2.7	3.0	3.0	2.3	4.7	6.7	7.0	3.7
MP58	28.3	5.7	3.7	6.7	3.0	3.0	3.0	2.3	2.7	3.0	3.0	2.7	4.3	7.0	7.0	3.7
PRIME	25.0	6.0	4.0	8.3	3.0	2.7	2.7	2.0	2.7	3.0	3.0	3.0	4.7	7.0	7.0	3.7
ABT-99-3.268	30.0	4.7	3.7	8.3	3.0	3.0	3.0	2.3	3.0	3.0	3.0	2.7	4.0	6.0	7.0	3.6
LS-DE1	21.7	6.0	4.0	13.3	3.0	3.0	2.7	2.0	2.7	3.0	3.0	3.0	4.0	5.7	7.0	3.5
LSD VALUE	15.9	1.9	0.8	17.6	1.1	1.5	0.8	0.9	0.6	0.4	0.7	0.8	1.7	1.3	1.1	0.4
C.V. (%)	25.5	14.0	10.4	80.2	11.7	16.0	9.7	18.0	11.5	5.8	10.4	12.9	14.5	7.2	5.6	5.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).  
2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.