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

INTRODUCTION

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

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

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

Location & Number of Trial Sites

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

Trial Specifics

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

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

ON-SITE TESTING (continued)

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

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

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

Kevin Morris, Executive Director National Turfgrass Evaluation Program Beltsville Agricultural Research Center-West Building 003 Room 217 Beltsville, Maryland 20705 USA

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

ON-SITE PUTTING GREEN TEST LOCATIONS

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

USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST

Entries and Sponsors

| Entry No. Name Sponsor | |
|---------------------------|-------------------|
| 1 MS-Supreme Mississippi | State University |
| | ed Development |
| 3 Mini-Verde Turfgrass A | America |
| 4 Tifdwarf Standard En | ntry |
| 5 Champion Coastal Tur | f, Inc. |
| 6 Tifgreen Standard En | ntry |
| 7 Floradwarf Florida Tur | fgrass Foundation |

| TABLE 1A. 1998 1998 On Site Bern | MANAGEMENT - ON-SITE | E BERMUDAGRASS TI | EST AT BIRMINGHAM, A | L (COUNTRY CLUI | B OF BIRMINGHAM) | | |
|--|---|--|--|---|--|-----------|--------------|
| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
| Planting date Problems during | 11-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| FACTORS OF PLAY | TOR | August 1998 August 1998 August 1998 | KNO3, methylene urea P2O5 K2O | 1 lb. N 1/2 lb. P 1 lb. K | Three times per year | Bensulide | |
| Date opened for play | not yet opened | September 1998 September 1998 | KNO3, methylene urea P2O5 | 1 lb. N 1/2 lb. P | INSECTICIDES | | |
| Date closed for play | | September 1998 | K2O | 1 lb. K | | | |
| Type of spikes allowed Uses of green | softspikes will be used for chipping, | OctDec. 1998 2-4x/month | 20-5-20 | 0.10 lb. N | Date(s) | Product | Rate (oz./M) |
| - | bunker shots | | | | None | | |
| MOWING | | | | | | | |
| Initial height Current height Frequency | 0.275" 0.15" 6 days/week | | | | OTHER PRODUCTS | | |
| Type of mower Rollers used | walking 2-3 times/month | | | | Date(s) | Product | Rate (oz./M) |
| Groomers used | groom every time green is mowed. Blades set .005" below bedknife. | FUNGICIDES | | | None | | |
| CULTIVATION | | | | | NOTES/COMMENTS | | |
| Aerfication - dates Aerification - type Verticutting Dates of topdressing Other cultural practices | Sept. 1998 - 5/8" hollow hydroject - 2x/month, March-November once per week- July-Sept. once per week- July-Sept. None | Date(s) every 2-3 wks, July - mid-Dec. | Product Alternate Banol, Alliette, Heritage and Subdue with either Mancozeb or Daconil | Rate (oz./M) labeled preventative rates | Since the bermuda has been overseeded with poa trivialis, we have been spraying with our weekly bentgrass fungicide & fertilizer mix. The bermuda was covered this winter when nightime temps. dropped below 27 degrees F. | | |

1998 On Site Bermudagrass test with permission from NTEPTABLE 1B.1999 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | |
|---|--|--------------------------------|---|-------------------|--|----------------------|
| Planting date | 11-Jun-98 | Date(s) | Product | Rate (lbs./M) | Date(s) | Product Rate (oz./M) |
| Problems during | None | March, April, June- Sept. | 26-0-22 (Methylene Urea + KNO3) | 1/2 lb. N | March, May, July | Bensulide |
| FACTORS OF PLAY Date opened for play | July of 1998 | April, May, Aug. | 12-2-12 (Natural Organic + Methylene Urea) | 0.6 lb. N | INSECTICIDES | |
| Date closed for play Type of spikes allowed Uses of green | softspikes chipping, bunker practice | March-November | 20-5-20 (ProSol foliar) | 1/32 to 1/10 lb | Date(s) | Product Rate (oz./M) |
| MOWING | | | | N bi-weekly | As needed in Summer for cutworms and army worms | Talstar |
| Initial height Current height Frequency | 0.25" 0.14" 6-7 days/week | | | | OTHER PRODUCTS | |
| Type of mower Rollers used | walking | | | | Date(s) | Product Rate (oz./M) |
| Groomers used | 6-7 days/week | | | | None | |
| CULTIVATION | | FUNGICIDES | | | | |
| Aerfication - dates | 1" deep - early May, 1/2 " hollow tine -early July, 5/8 " | Date(s) | Product | Rate (oz./M) | | |
| Aerification - type | hollow tine - late Aug. hydroject - bi-weekly From April to Oct. | Sprayed bi-weekly in Summer | Consyst | 4 oz./1000 sq.ft. | NOTES/COMME | INTS |
| Verticutting | Lightly every two weeks- June-Sept. | | | | Overseeded with Poa tr covered when tempe dropped below 24 d | eratures |
| Dates of topdressing Other cultural practices | Heavy after aerifications, Lightly bi-weekly Rolling as needed | | | | FF | |

1998 On Site Bermudagrass test with permission from NTEPTABLE 1C.2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|---|--|--|---|--|---|---|---|
| Planting date Problems during | 11-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product Rate (oz./M) |) |
| FACTORS OF PLAY Date opened for play | July of 1998. Open year | March, April, May June, July June, July March-November | 26-0-22 (Nutralene+KNO ₃) Anderson's (22-0-22) K ₂ SO ₄ (0-0-24) 20-5-20 ProSol foliar | 0.5 lb. N 0.5 lb. N 1 lb. K ₂ O 1/16 lb. N | March, May, July INSECTICIDES | Bensulide | |
| Date closed for play Type of spikes allowed Uses of green | round softspikes chipping, bunker practice | | | | Date(s) | Product Rate (oz./M) |) |
| MOWING | rr C, the rest | | | | for cutworms, armyworms and a few mole crickets | Talstar | |
| Initial height | 0.25" | FUNGICIDES | | | mole chickets | | |
| Current height | 0.125-0.150" | \mathbf{D} () | | | | | |
| Frequency Type of mower | 6-7 days/week Toro 800 walk | Date(s) | Product | Rate (oz./M) | OTHER PRODUCTS | | |
| Rollers used | 1010 800 walk | Fungicides are sprayed | Alliette | 4 | UTHER FRODUCTS | | |
| Groomers used | 6-7 days/week | biweekly in summer | Banol | 2 | Date(s) | Product Rate (oz./M) |) |
| | 2 | depending on weather | Subdue Maxx | 1 | | · · · · · · · · · · · · · · · · · · · | |
| CULTIVATION | | conditions. Big problem with pythium | Dithane Daconil Ultrex Heritage | 4 4-8 oz. 0.4 | None | | |
| Aerfication - dates Aerification - type | 5/8" hollow - June. 1/4" hollow tine- July & August. Graden - Sept. 1. | so Alliette, Banol, Subdue, and Heritage are rotated and sprayed on a two weeks | Consyst | 4 6 | | | |
| Verticutting | Lightly verticut every 3 | schedule. | | | NOTES/COMME | NTS | |
| , entreuting | weeks or so. | | | | | ivialis and covered when below 24 degrees. Areas | - |
| Dates of topdressing | Heavy after aerifications, Lightly bi-weekly | | | | of green that get the me are healthier. No discer | ost splash from bunkers rnable layer underneath. | |
| Other cultural practices | Rolling as needed | | | | Weekly topdressing wo | ould probably be better. | |

1998 On Site Bermudagrass test with permission from NTEPTABLE 1D.2001 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM)

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

1998 On Site Bermudagrass test with permission from NTEP

TABLE 1E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS

IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM) 1/ 1998-2001 DATA

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

| | | | | | | | | POA | PERCENT | | |
|------------|---------|---------|-----------|-------------|------------|------------|------------|-----------|---------------|------------|--------------|
| | | | COLOR | COLOR | OVERSEEDII | NG QUALITY | STIMPMETER | TRIVIALIS | ESTABLISHMENT | OVERSEED E | STABLISHMENT |
| | GENETIC | SPRING | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | READINGS | DENSITY | 5 WEEKS | OCTOBER | NOVEMBER |
| NAME | COLOR | GREENUP | 2000-01 | 1999 & 2001 | 1999 | 1999 | 1999 | MAY 2001 | 1998 | 1998 | 1998 |
| MINI-VERDE | 6.9 | 5.1 | 5.8 | 4.5 | 7.3 | 8.7 | 105.0 | 6.0 | 61.7 | 4.7 | 3.3 |
| TIFEAGLE | 6.2 | 4.7 | 5.7 | 4.2 | 7.3 | 8.3 | 102.7 | 6.0 | 58.3 | 4.7 | 2.7 |
| FLORADWARF | 6.9 | 5.0 | 5.4 | 4.3 | 5.7 | 7.3 | 106.7 | 5.0 | 65.0 | 4.0 | 3.0 |
| MS-SUPREME | 5.8 | 5.3 | 4.8 | 4.0 | 7.3 | 8.3 | 107.3 | 6.3 | 71.7 | 4.0 | 2.7 |
| CHAMPION | 6.3 | 4.7 | 4.4 | 4.2 | 6.7 | 8.0 | 105.0 | 5.7 | 60.0 | 4.3 | 3.0 |
| TIFDWARF | 5.4 | 5.6 | 4.3 | 5.0 | 6.3 | 7.7 | 105.3 | 5.7 | 71.7 | 4.7 | 3.0 |
| TIFGREEN | 4.0 | 4.3 | 2.7 | 4.0 | 4.7 | 6.3 | 103.3 | 6.0 | 76.7 | 2.3 | 2.3 |
| LSD VALUE | 0.7 | 2.8 | 0.8 | 2.6 | 0.9 | 1.8 | 9.7 | 1.7 | 14.2 | 1.5 | 1.4 |
| C.V. (%) | 15.9 | 36.3 | 19.6 | 30.8 | 7.9 | 10.9 | 3.6 | 12.1 | 10.5 | 18.6 | 19.7 |

TABLE 1E. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS (CONT'D) IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT BIRMINGHAM, AL (COUNTRY CLUB OF BIRMINGHAM) 1/ 1998-2001 DATA 1/

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

| | | | | | Ç | UALITY R | ATINGS | | | | | |
|------------------------|------------|------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| NAME | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | DEC | MEAN |
| MINI-VERDE TIFEAGLE | 6.0 6.0 | 7.0 6.0 | 6.3 6.7 | 6.7 7.0 | 5.2 5.1 | 6.2 6.1 | 6.0 5.6 | 6.9 6.3 | 6.1 6.1 | 5.0 5.1 | 3.7 2.7 | 5.9 5.7 |
| FLORADWARF | 5.7 | 6.3 | 6.3 | 7.0 | 5.7 | 5.8 | 5.9 | 5.9 | 5.8 | 4.1 | 2.7 | 5.6 |
| MS-SUPREME CHAMPION | 6.0 5.7 | 7.3 6.0 | 7.0 7.0 | 7.0 6.7 | 5.4 5.1 | 6.1 5.9 | 5.3 5.6 | 6.1 5.8 | 5.2 5.4 | 4.1 4.7 | 3.3 2.7 | 5.6 5.5 |
| TIFDWARF | 6.0 | 5.7 | 6.0 | 7.0 | 5.8 | 5.8 | 5.2 | 5.6 | 5.3 | 4.2 | 3.7 | 5.4 |
| TIFGREEN | 5.3 | 3.7 | 4.7 | 5.0 | 3.9 | 4.7 | 3.4 | 3.6 | 3.4 | 4.0 | 4.0 | 4.0 |
| LSD VALUE C.V. (%) | 0.8 6.3 | 0.9 9.0 | 1.3 10.8 | 1.0 7.8 | 1.8 28.3 | 0.6 13.2 | 0.6 15.4 | 0.7 16.4 | 0.8 20.5 | 1.3 23.2 | 1.5 21.7 | 0.3 8.4 |

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.

| Planting date Problems during. 18-Jun-98 None Date(s) Product Rate (bs./M) Date(s) Product Rate (oz./M) Problems during. Preplant 13-13-13 19-25-13 1b. N per week 0.5 b. N per month None Vertice Veri | ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|---|--------------------------|-------------|---------------|----------------|------------------|-----------------------|---------|--------------|
| IP-25-131 lb. N per week 0.5 lb. N per monthFACTORS OF PLAYWinter 199811b. N per week 0.5 lb. N per monthDate opened for play Date closed for play Date closed for play only uses of green20-Aug-98 not closed softspikes only putting, chipping, pitching20-Aug-98 | • | | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| FACTORS OF PLAY Winter 1998 0.5 lb. N per month Date opened for play Date closed for play softspikes only 20-Aug-98 not closed softspikes only Intervent closed softspikes only Intervent closed softspikes only Softspikes softspikes only Intervent closed softspikes only Product Rate (oz./M) Uses of green putting, chipping, pitching FUNGICIDES Product Rate (oz./M) MOWING FUNGICIDES Dursban Orthere Dursban Orthere Product Rate (oz./M) Initial height 1/4" FUNGICIDES Product Rate (oz./M) Product Rate (oz./M) Subdue Maxx preventative preventative Groomers used 7 days/week Date(s) Product Rate (oz./M) CUUTIVATION ELESCO Manicure Aerification - type None ELESCO Manicure ProStar None Rate (oz./M) Aerification - type Verticutting bi-weekly ELESCO Manicure every week Oct - Apr: every week Oct - Apr: every week All varietios grew in quickly. The establishment cover slowed down spred All varietios grew in quickly. The establishment | - | | Preplant | | 1 lb. N per week | None | | |
| Date closed for play Type of spikes allowed onlynot closed softspikes onlynot closed softspikes onlyUses of greenputting, chipping, pitchingINSECTICIDESMOWINGDate(s)ProductRate (oz./M)Initial height1/4"FUNGICIDESDursban OrtheneInitial height1/4"FUNGICIDESDursban OrtheneInitial height5/32"Frequency7 days/weekPrequency7 days/weekDate(s)ProductRate (oz./M)Type of mower walkingWalkingProductRate (oz./M)Rollers usedHeritage proventativepreventative preventativeOTHER PRODUCTSGroomers usedFrequencyNoneRate (oz./M)CULTIVATIONLESCO Manicure ProStarNoneRate (oz./M)Aerification - dates Aerification - typeNoneLESCO Manicure Arrification - typeNOTES/COMMENTS every week Oct-Apr.: every other weekAll varieties grew in quickly. The establishment every other weekAll varieties grew in quickly. The establishment cover slowed down spred | FACTORS OF PLAY | | Winter 1998 | | | | | |
| Type of spikes allowed onlysoftspikes onlysoftspikes onlysoftspikes onlysoftspikes onlysoftspikes onlysoftspikes insectionessoftspikes insectionessoftspikes insectionessoftspikes insectionessoftspike | | - | | | | | | |
| Outputonly putting, chipping, pitchingPutting, chipping, pitchingINSECTICIDESMOWINGDate(s)ProductRate (oz/M)MOWINGInitial height1/4"FUNGICIDESDursban OrtheneInitial height1/4"FUNGICIDESDursban OrtheneOutput ProductProductInitial height1/4"FUNGICIDESFUNGICIDESCurrent height5/32"ProductRate (oz/M)Type of mowerwalkingProductRate (oz/M)Type of mowerwalkingProductRate (oz/M)Rollers usedEBate(s)ProductRate (oz/M)Groomers usedESubdue Maxx PreventativeOTHER PRODUCTS PreventativeRate (oz/M)CULTIVATIONEDaconil ProStarNoneRate (oz/M)Aerification - dates Aerification - typeNoneLESCO Manicure ProStarNoneKate (oz/M)Dates of topdressingMay-Sept.: every week OctApr:: every other weekAll varieties grew in quickly. The establishmentAll varieties grew in quickly. The establishmentOther cultural practicesRolled oncecover slowed down spreadInterview slowed down spread | 1 5 | | | | | | | |
| chipping, pitching Date(s) Product Rate (oz./M) MOWING | Type of spikes allowed | • | | | | | | |
| pitching Date(s) Product Rate (oz./M) MOWING | Uses of green | | | | | INSECTICIDES | | |
| Initial height1/4"FUNGICIDESOrtheneCurrent height1/4"FUNGICIDESFerquency5/32"Frequency7 day/weekDate(s)ProductRate (oz/M)Type of mower7 day/weekDate(s)ProductRate (oz/M)Type of mower7 day/weekDate(s)ProductRate (oz/M)Groomers usedHeritagepreventativeOTHER PRODUCTSGroomers usedSubdue MaxxpreventativeProductCULTIVATIONKobanpreventativeNoneAerification - datesNoneIESCO ManicureNoneAerification - typebi-weeklyIESCO ManicureNOTES/COMMENTSVerticuttingbi-weeklyIESCO ManicureIESCOMMENTSDates of topdressingMay-Sept.:IESCO ManicureIESCOMMENTSevery weekIESCO ManicureIESCOMMENTSIESCOMMENTSOther cultural practicesRolled onceIESCOMANCEIESCOMMENTSOther cultural practicesRolled onceIESCOMANCEIESCOMANCEOther cultural practicesRolled onceIESCOMANCEIESCOMANCERolled onceIESCOMANCEIESCOMANCEIESCOMANCERolled onceIESCOMANCE <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Date(s)</td><td>Product</td><td>Rate (oz./M)</td></td<> | | | | | | Date(s) | Product | Rate (oz./M) |
| Current height5/32"Frequency7 days/weekDate(s)ProductRate (oz./M)Type of mowerwalkingRollers usedHeritagepreventativeGroomers usedSubdue MaxxpreventativeGroomers usedKobanpreventativeCULTIVATIONDaconilRate (oz./M)CULTIVATIONProductRate (oz./M)Aerification - datesNoneLESCO ManicureAerification - typeVerticuttingbi-weeklyVerticuttingbi-weeklyNOTES/COMMENTSDates of topdressingMay-Sept.:All varieties grew in quickly. The establishment every other weekOther cultural practicesRolled once | MOWING | | | | | | | |
| Frequency7 days/weekDate(s)ProductRate (oz./M)Type of mowerwalkingRollers usedHeritagepreventativeOTHER PRODUCTSGroomers usedSubdue MaxxpreventativeGroomers usedKobanpreventativeDate(s)ProductCULTIVATIONRate (oz./M)DaconilRate (oz./M)Aerfication - datesNoneLESCO ManicureNoneAerfication - typei-weeklyi-weeklyNOTES/COMMENTSDates of topdressingMay-Sept.: every week OctApr.: every other weekAll varieties grew in quickly. The establishmentOther cultural practicesRolled oncecover slowed down spread | Initial height | 1/4" | FUNGICIDES | | | | | |
| Type of mower walking Rollers used Heritage preventative Groomers used Subdue Maxx preventative Groomers used Subdue Maxx preventative CULTIVATION Baconil Product Rate (oz./M) CULTIVATION Daconil None Nate (oz./M) Aerfication - dates None None None Aerfification - type Verticutting bi-weekly NOTES/COMMENTS Verticutting Dates of topdressing May-Sept.: every week All varieties grew in quickly. The establishment every other week All varieties grew in quickly. The establishment cover slowed down spread Other cultural practices Rolled once cover slowed down spread Second spread | Current height | 5/32" | | | | | | |
| Rollers usedHeritage Subdue Maxx preventativepreventative preventativeOTHER PRODUCTSGroomers usedSubdue Maxx preventativepreventative Date(s)ProductRate (oz./M)CULTIVATIONDaconil ProStarNoneRate (oz./M)Aerification - dates Aerification - typeNoneLESCO ManicureNoneVerticuttingbi-weeklyLESCO ManicureImage: State Stat | Frequency | 7 days/week | Date(s) | Product | Rate (oz./M) | | | |
| Groomers used Subdue Maxx preventative Koban preventative Date(s) Product Rate (oz./M) CULTIVATION Daconil ProStar None Verticutting None Verticutting None Verticutting Verticutting Nay-Sept.: Verticutting NOTES/COMMENTS Verticutting Verticutting< | | walking | | | | | | |
| Koban preventative Date(s) Product Rate (oz./M) CULTIVATION Daconil ProStar None None Aerfication - dates None LESCO Manicure None Image: State (State | | | | U | 1 | OTHER PRODUCTS | | |
| CULTIVATION Daconil ProStar None Aerfication - dates None Aerfication - dates None Aerification - type LESCO Manicure Verticutting bi-weekly Dates of topdressing May-Sept.: every week NOTES/COMMENTS every week All varieties grew in octApr.: All varieties grew in every other week quickly. The establishment Other cultural practices Rolled once | Groomers used | | | | - | | | |
| ProStarNoneAerification - datesNoneLESCO ManicureAerification - type | | | | | preventative | Date(s) | Product | Rate (oz./M) |
| Aerification - datesNoneLESCO ManicureAerification - typeVerticuttingbi-weeklyDates of topdressingMay-Sept.:every weekNOTES/COMMENTSoctApr.:All varieties grew inevery other weekquickly. The establishmentOther cultural practicesRolled once | CULTIVATION | | | | | | | |
| Aerification - typeVerticuttingbi-weeklyDates of topdressingMay-Sept.:every weekNOTES/COMMENTSoctApr.:All varieties grew inevery other weekquickly. The establishmentOther cultural practicesRolled oncecover slowed down spreadcover slowed down spread | A (* 1) | N | | | | None | | |
| Verticuttingbi-weeklyDates of topdressingMay-Sept.:very weekNOTES/COMMENTSoctApr.:All varieties grew inevery other weekquickly. The establishmentOther cultural practicesRolled oncecover slowed down spread | | None | | LESCO Manicure | | | | |
| Dates of topdressing May-Sept.: NOTES/COMMENTS every week OctApr.: All varieties grew in octApr.: every other week Quickly. The establishment Other cultural practices Rolled once cover slowed down spread | • • | hi weekh | | | | | | |
| every week All varieties grew in OctApr.: All varieties grew in every other week quickly. The establishment Other cultural practices Rolled once | e | • | | | | NOTES/COMMENTS | | |
| OctApr.:All varieties grew inevery other weekquickly. The establishmentOther cultural practicesRolled oncecover slowed down spread | Dates of toparessing | • 1 | | | | | | |
| every other weekquickly. The establishmentOther cultural practicesRolled oncecover slowed down spread | | - | | | | All varieties grew in | | |
| Other cultural practices Rolled once cover slowed down spread | | | | | | | | |
| 1 | Other cultural practices | • | | | | | | |
| | ·· r ···· · · · · | per week | | | | by about a week. | | |

TABLE 2A 1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE)

TABLE 2B. 1999 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE) 1998 On Site Bermudagrass test with permission from NTEP FERTILIZATION HERBICIDES **ESTABLISHMENT** Planting date 18-Jun-98 Date(s) Product Rate (lbs./M) Date(s) Product Rate (oz./M) Problems during None 1 lb. N & 2 lbs. K 1 lb. N/M, amend soil with Ca Summer None as needed. Topdress & roll until Winter 1/2 lb. N & 1 lb. smooth surface was attained K per Month split into two apps. 14 days FACTORS OF PLAY apart. Date opened for play Open all year Calcium & Minors As needed Date closed for play not closed **INSECTICIDES** Type of spikes allowed softspikes Uses of green putting, Date(s) Product Rate (oz./M) chipping, None MOWING FUNGICIDES 1/4" Initial height 5/32" Current height Date(s) Product Rate (oz./M)7 days/week Frequency Type of mower walking As needed -OTHER PRODUCTS Rollers used weekly during Summer season preventative Groomers used during overseed Date(s) Product Rate (oz./M) **CULTIVATION** Primo 2 oz./Acre biweekly in July & Aerfication - dates June & Aug.14 Aug. Aerification - type Core Verticutting bi-weekly during growing season & topdressed lightly NOTES/COMMENTS Aquafer between verticutings Wetting agent Dates of topdressing Every other week in season - as Overseeded plots on Oct. 18 with Poa needed during Winter trivialis at 8 lbs/1000 sq.ft. Other cultural practices Rolled weekly and brushed

1998 On Site Bermudagrass test with permission from NTEPTABLE 2C.2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|--|--|--------------------------------|-------------------------------------|---------------------------------------|----------------|--------------------------|--------------------------|
| Planting date Problems during | 18-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| | 1 lb. N/M, amend soil with Ca as needed. Topdress & roll until smooth surface was attained | 75% slow Ty | release (Nutrale pical blend 12- | 2-24 | None | | |
| FACTORS OF PLAY | | Fonal nuu | ients as needed | (~2 10s./year) | | | |
| Date opened for play Date closed for play | NA | FUNGICIDES | | | INSECTICIDES | | |
| Type of spikes allowed Uses of green | softspikes putting, | Date(s) | Product | Rate (oz./M) | Date(s) | Product | Rate (oz./M) |
| | chipping, | July-September Fall, Spring | | d for armyworms age, Terrazole for | None | | |
| MOWING | | | Р | ythium | | | |
| | | Chipco, chlorothalo | nil for patch dis | sease | | | |
| Initial height | 0.155" | | | | | | |
| Current height | 0.140" | | | | | | |
| Frequency Type of mower | 7 days/week walking | | | | OTHER PRODUCTS | | |
| Rollers used | weekly in June - October | | | | UTHER FRODUCTS | | |
| Groomers used | weekry in June October | | | | Date(s) | Product | Rate (oz./M) |
| CULTIVATION | | NOTES/CO | MMENTS | | | Aquafer Wetting agent | 4 oz./K every 30 days |
| Aerfication - dates | 5/15 and 8/14 | Lots of disease f | all of 2000. Tifs | green almost gone - | | wetting agent | uays |
| Aerification - type | 5/8" Hollow Tines | taken over by adjac | ent plots. High | nematode populations | | | |
| Verticutting | Verticut lightly every other | | on Floradwarf | | | | |
| Dates of topdressing | Monday in June-Oct. & | | | | | | |
| | topdressed lightly on the | | | | | | |
| | opposite Mondays. Topdressing | , | | | | | |
| | monthly in November to May. | | | | | | |

Other cultural practices

1998 On Site Bermudagrass test with permission from NTEPTABLE 2D.2001 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE)

| ESTABLISHMENT | | FERTILIZATION | | HERBICIDES | | | | |
|--|---|--|---|--|----------------------------|---------|--------------|--|
| Planting date Problems during | 18-Jun-98 None 1 lb. N/M, amend soil with Ca as needed. Topdress & roll until smooth surface was attained | 1/2 2 I Spray minor | Product lb. Of N per mon lb. Of P per mon bs. Of K per mon rs and wetting ag rtilizer cut by 1/2 | nth nth ent monthly | Date(s) None | Product | Rate (oz./M) | |
| FACTORS OF PLAY | | | 2 | | | | | |
| Date opened for play Date closed for play | always open | FUNGICIDES | | | INSECTICIDES | | | |
| Type of spikes allowed | softspikes | Date(s) | Product | Rate (oz./M) | Date(s) | Product | Rate (oz./M) | |
| Uses of green | putting, chipping, | Chipco top ch | noice in June for | mole crickets | None | | | |
| MOWING | | Ever | ything else as ne | eded | | | | |
| Initial height Current height Frequency Type of mower | 0.250" 0.135" 7 days/week Jacobsen 22" walkers | | | | OTHER PRODUCTS | | | |
| Rollers used Groomers used | No No | | | | Date(s) | Product | Rate (oz./M) | |
| CULTIVATION | | NOTES/COM | MMENTS | | every 2 weeks in Summer | Primo | 2 oz./K | |
| Aerfication - dates Aerification - type Verticutting | May and August 1/2" Hollow Tines Verticut as needed - about 6 times per growing season | The green was not of differences in cold Some varieties (T completely ove | tolerance and gi | eenup were noted. dwarf) are almost | | | | |
| Dates of topdressing | Topdress every Monday lightly. Primo at 2 oz./M every 2 weeks in Summer. | | | | | | | |
| Other cultural practices | Brushing after topdressing | | | | | | | |
| Product and company no | mes mentioned herein may be trad | emarks and/or registe | arad tradamarka | of their respective ou | marc | | | |

TABLE 2E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE) 1/ 1998-2001 DATA

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

| | | | | | | PERCENT | | | | | |
|------------|---------|---------|----------|---------|---------|---------|-----------|-----------|------------|--------|------------|
| | | | | FALL | DOLLAR | DOLLAR | COUNT | rs of nem | ATODES IN | 2000 | STIMPMETER |
| | GENETIC | LEAF | SEEDLING | DENSITY | SPOT | SPOT | (NUM | BERS/100 | CUBIC CM S | OIL) | READINGS |
| NAME | COLOR | TEXTURE | VIGOR | 2000 | 2000-01 | 2000 | ROOT-KNOT | RING | LANCE | SHEATH | FALL 1999 |
| MINI-VERDE | 7.9 | 9.0 | 5.3 | 7.8 | 3.6 | 17.0 | 72.5 | 5.0 | 0.0 | 5.0 | 114.3 |
| CHAMPION | 7.4 | 9.0 | 5.5 | 7.5 | 3.5 | 29.5 | 60.0 | 0.0 | 2.5 | 5.0 | 134.3 |
| TIFEAGLE | 7.3 | 9.0 | 5.8 | 7.8 | 3.9 | 14.5 | 55.0 | 35.0 | 0.0 | 0.0 | 121.3 |
| MS-SUPREME | 6.3 | 9.0 | 5.5 | 6.0 | 6.0 | 2.5 | 55.0 | 5.0 | 0.0 | 5.0 | 125.3 |
| FLORADWARF | 6.9 | 9.0 | 5.3 | 6.8 | 4.9 | 21.8 | 35.0 | 2.5 | 102.5 | 0.0 | 125.8 |
| TIFDWARF | 7.5 | 8.3 | 5.8 | 7.8 | 3.5 | 8.3 | 90.0 | 15.0 | 0.0 | 15.0 | 116.8 |
| TIFGREEN | 5.8 | 6.7 | 5.8 | 5.3 | 3.6 | 2.5 | 127.5 | 15.0 | 0.0 | 10.0 | 116.0 |
| LSD VALUE | 0.8 | 0.3 | 1.8 | 0.8 | 2.5 | 11.2 | 68.1 | 69.1 | 14.7 | 16.8 | 18.5 |
| C.V. (%) | 15.0 | 5.0 | 14.0 | 8.3 | 47.0 | 55.5 | 54.6 | 278.0 | 72.6 | 151.2 | 8.2 |

TABLE 2E. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS (CONT'D) IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT MOBILE, AL (COUNTRY CLUB OF MOBILE) 1/ 1998-2001 DATA

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

| | | | | | QUALI | TY RATIN | GS | | | | |
|------------|-----|-----|-----|------|-------|----------|------|------|------|-----|------|
| NAME | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | MEAN |
| MINI-VERDE | 8.0 | 7.8 | 8.0 | 7.8 | 7.7 | 7.9 | 8.1 | 8.1 | 7.9 | 8.0 | 8.0 |
| CHAMPION | 8.0 | 7.8 | 7.9 | 7.5 | 7.6 | 7.9 | 7.8 | 7.6 | 7.8 | 7.8 | 7.7 |
| TIFEAGLE | 7.8 | 7.8 | 7.6 | 7.4 | 7.7 | 7.7 | 7.5 | 7.7 | 7.5 | 7.5 | 7.6 |
| MS-SUPREME | 7.3 | 7.7 | 7.3 | 6.6 | 6.6 | 7.0 | 6.5 | 7.3 | 7.5 | 8.0 | 7.3 |
| FLORADWARF | 8.0 | 7.5 | 7.7 | 6.4 | 6.6 | 7.3 | 6.8 | 6.9 | 7.1 | 8.0 | 7.2 |
| TIFDWARF | 7.0 | 7.5 | 7.3 | 6.8 | 6.8 | 7.2 | 7.4 | 7.4 | 7.1 | 6.8 | 7.1 |
| TIFGREEN | 6.5 | 7.3 | 7.3 | 6.5 | 4.8 | 5.0 | 5.2 | 5.6 | 5.8 | 6.5 | 6.1 |
| LSD VALUE | 0.5 | 0.7 | 0.7 | 0.7 | 1.1 | 0.9 | 0.8 | 0.6 | 0.6 | 0.6 | 0.4 |
| C.V. (%) | 4.8 | 7.9 | 9.6 | 12.5 | 20.1 | 16.7 | 15.4 | 13.7 | 12.4 | 5.8 | 9.3 |

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.

| 1998 On Site Bermudag | rass test with permi | SSION from NTEP | | | | | |
|--|--------------------------|-----------------|---------|-----------------|---|----------|--------------|
| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
| Planting date Problems during | July 1998 Established | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| | from plugs only - | Summer 1998 | 21-7-14 | 3.5-3.75 lbs. N | None | | |
| | 40 per plot | | | | INSECTICIDES | | |
| FACTORS OF PLAY | | | | | Date(s) | Product | Rate (oz./M) |
| Date opened for play Date closed for play Type of spikes allowed | not yet open | | | | None | | |
| Uses of green | putting | | | | OTHER PRODUCTS | | |
| MOWING | | | | | Date(s) | Product | Rate (oz./M) |
| Initial height | | | | | August 1998 | Ferromec | 4 |
| Current height | | | | | Sept. 1998 | Ferromec | 4 |
| Frequency | | | | | October 1998 | Ferromec | 4 |
| Type of mower | walking | | | | | | |
| Rollers used Groomers used | smooth roller | | | | NOTES/COMMENTS | | |
| CULTIVATION | | FUNGICIDES | | | Irrigation system would not support stolon | | |
| | | Date(s) | Product | Rate (oz./M) | establishment. Plugs | | |
| Aerfication - dates | None | | | · · · · | produced raised turf | | |
| Aerification - type | | None | | | by late Fall 1998. In | | |
| Verticutting | | | | | April 1998, renovated | | |
| Dates of topdressing | None | | | | all plots via special | | |
| Other cultural practices | None | | | | core aeration and | | |
| - | | | | | lowering turf via cup | | |
| | | | | | cutter and re-setting | | |
| | | | | | plugs. Following aggres- | | |
| | | | | | sive aeration and rolling, | | |
| | | | | | green will open for | | |
| | | | | | play June 15, 1999 | | |

TABLE 3A. 1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY) 1998 On Site Bermudagrass test with permission from NTEP

TABLE 3B. 1999 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY) 1998 On Site Bermudagrass test with permission from NTEP

| ESTABLISHMENT |] | FERTILIZATION | | | HERBICIDES | | |
|--------------------------|------------------------|---------------|----------|---------------|-------------------------|----------|---------------|
| Planting date | July 1998 | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| Problems during | Established | | | | | | |
| | from plugs | April | 15-15-15 | 2 lbs. N | None | | |
| | only - | May | 21-7-14 | 1.5 lbs. | | | |
| | 40 per plot | May | 14-0-8 | 0.25 lbs. | | | |
| | | June | 33-0-0 | 0.8 lbs. | | | |
| FACTORS OF PLAY | | June | 0-0-37 | 0.25 lbs. | INSECTICIDES | | |
| | | July | 15-5-8 | 1.25 lbs. | | | |
| Date opened for play | open year round | August | 21-7-14 | 1 lbs. | Date(s) | Product | Rate (oz./M) |
| Date closed for play | | September | 34-0-0 | 0.5 lbs. | | | |
| Type of spikes allowed | soft spikes only | | | | April | Crusade | 1x label rate |
| Uses of green | | | | | | | |
| MOWING | | | | | | | |
| Initial height | 5/32" | | | | | | |
| Current height | 5/32" | | | | OTHER PRODUCTS | | |
| Frequency | 6X/week | | | | | | |
| Type of mower | 22" walker | | | | Date(s) | Product | Rate (oz./M) |
| Rollers used | | | | | | | · · · · · |
| Groomers used | Shallow wiehle (round) | | | | May | Ferromec | 4 |
| | | | | | June | Ferromec | 4 |
| CULTIVATION | | FUNGICIDES | | | August | Ferromec | 4 |
| | | | | | | | |
| Aerfication - dates | None | Date(s) | Product | Rate (oz./M) | | | |
| Aerification - type | | () | | () | | | |
| Verticutting | | None | | | NOTES/COMMENTS | | |
| Dates of topdressing | 6/5, 10/22 | | | | | | |
| Other cultural practices | Only to brush in sand. | | | | Not overseeded due to | | |
| Cultural Practices | Rolled once in May | | | | location/elevation site | | |
| | itemed once in May | | | | | | |

1998 On Site Bermudagrass test with permission from NTEP TABLE 3C. 2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY)

| ESTABLISHMENT | | FERTILIZATION | | HERBICIDES | | | | |
|---|---|-------------------------------|-----------------------------------|---------------|-------------------------------|--------------------------------------|--------------|--|
| Planting date Problems during | July 1998 | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) | |
| riobienis during | Established from plugs only - 40 per plot | May-September (bi-monthly) | Florentine liquid | 0.25 lbs. N | Roundup applied to control po | when bermuda wa oa and stray bent | | |
| FACTORS OF PLAY | 40 per plot | once in June-Sep. | 15-15-15 greens grade granular | 1.25 lbs. N | | | | |
| Date opened for play Date closed for play | 01-Jun 15-Dec | May-September (monthly) | Ferromec (Iron) | 4 oz. product | INSECTICIDES | | | |
| Type of spikes allowed Uses of green | soft putting practice | (monuny) | | | Date(s) | Product | Rate (oz./M) | |
| MOWING | putting practice | | | | None | | | |
| Initial height Current height Frequency | 5/32" 5/32" 6X/week | | | | OTHER PRODUCTS | | | |
| Type of mower Rollers used | Walking and triplex Grooved rollers only | | | | Date(s) | Product | Rate (oz./M) | |
| Groomers used | Grooved Toners only | | | | April-September | soil wetting | 2 | |
| CULTIVATION | | FUNGICIDES | | | | agent | | |
| Aerfication - dates Aerification - type | 22-Jun 1/2" hollow tines 2 | Date(s) | Product | Rate (oz./M) | | | | |
| Verticutting | passes @ 2x2 spacing Light vert 6/5, 7/18, 8/22 | None | | | NOTE | S/COMMENTS | | |
| Dates of topdressing | Sand - 6/22, 7/5, 7/18, 8/22 | | | | | | | |
| Other cultural practices | 8/22 | | | | | | | |

1998 On Site Bermudagrass test with permission from NTEP TABLE 3D. 2001 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY)

| ESTABLISHMENT | | FERTILIZATION | | HERBICIDES | | | | |
|--|---|------------------|--|------------------------|--------------------------------|------------------------------------|---------------------|--|
| Planting date | July 1998 | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) | |
| Problems during | Established from plugs only - 40 per plot | May 11-Jun | 20-10-5-Micros Florantine Slo- Release and | 0.75 lb. N 1.5 lbs. | Roundup applied when to con | bermuda was do ntrol poa annua. | ormant in March | |
| FACTORS OF PLAY | | 18-Jun | ammonium nitrate 10-6-4 3 oz. Ferro | 0.5 lb. N omec/M | | | | |
| Date opened for play Date closed for play | Open year round | 13-Aug 31-Aug | Calcium nitrate 20-10-5 | 0.4 lb. N 1.0 lb. N | INSECTICIDES | | | |
| Type of spikes allowed Uses of green | soft spikes only putting | | and 4 oz. F | erromec | Date(s) | Product | Rate (oz./M) | |
| MOWING | | | | | None | | | |
| Initial height Current height Frequency | 5/32" 5/32" 6X/week | | | | OTHER PRODUCTS | | | |
| Type of mower Rollers used | 22" walker Shallow wiehle (round) | | | | Date(s) | Product | Rate (oz./M) | |
| Groomers used | Shanow when e (round) | | | | Florantine Root enhance | r applied six tim | es year at 1x rate. | |
| CULTIVATION | | FUNGICIDES | | | | | | |
| Aerfication - dates Aerification - type Verticutting | May and July 2 solid tine aerifications same as aerifications; plus lite verticutting | Date(s) None | Product | Rate (oz./M) | NOTE | S/COMMENTS | | |
| | twice in June, once in July and Aug. | | | | | | | |
| Dates of topdressing | 5/18, 6/11, 7/20, 8/10 | | | | | | | |
| Other cultural practices | only brush in sand | | | | | | | |

TABLE 3E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY) 1/ 1998-2001 DATA

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

| | | | | | | | FROST | THATCH | FALL | COLOR RAI | INGS | STIM | PMETER RE | ADINGS | PERCENT |
|------------|--------|----------|------|--------|------------|------|-----------|---------|---------|-----------|------|--------|-----------|---------|---------------|
| | DENS | ITY RATI | NGS | PERCEN | r living c | OVER | TOLERANCE | 2000-01 | SEP | OCT | NOV | SPRING | SUMMER | FALL | ESTABLISHMENT |
| NAME | SPRING | SUMMER | FALL | SPRING | SUMMER | FALL | 2001 | | 2000-01 | 2000-01 | 2001 | 2001 | 1999-01 | 1999-01 | SUMMER FALL |
| TIFEAGLE | 6.9 | 7.4 | 7.9 | 88.2 | 90.5 | 95.0 | 8.0 | 24.7 | 6.3 | 6.7 | 5.0 | 108.3 | 97.0 | 98.9 | 50.0 83.3 |
| TIFGREEN | 5.8 | 6.3 | 6.8 | 72.5 | 78.8 | 76.2 | 7.3 | 19.5 | 7.7 | 7.0 | 5.3 | 100.0 | 99.3 | 102.1 | 53.3 86.0 |
| TIFDWARF | 7.3 | 7.3 | 7.8 | 68.3 | 80.8 | 93.7 | 7.0 | 21.2 | 5.0 | 5.3 | 5.3 | 110.0 | 99.8 | 103.9 | 55.0 86.0 |
| MINI-VERDE | 7.1 | 7.2 | 7.9 | 80.8 | 87.3 | 91.2 | 7.0 | 24.7 | 6.2 | 6.0 | 5.0 | 116.7 | 101.3 | 102.6 | 40.0 76.0 |
| MS-SUPREME | 6.6 | 6.5 | 7.5 | 77.5 | 85.0 | 91.5 | 7.3 | 19.2 | 5.5 | 5.5 | 3.7 | 109.7 | 95.8 | 96.9 | 43.3 80.3 |
| FLORADWARF | 5.6 | 6.0 | 6.5 | 80.8 | 90.8 | 76.2 | 8.0 | 14.3 | 6.0 | 5.0 | 6.0 | 97.0 | 93.2 | 99.1 | 75.0 94.7 |
| CHAMPION | 6.2 | 6.7 | 7.7 | 72.3 | 79.0 | 83.7 | 3.3 | 21.2 | 5.0 | 4.5 | 2.3 | 126.7 | 109.2 | 112.7 | 43.3 81.0 |
| LSD VALUE | 1.0 | 1.4 | 0.8 | 22.4 | 21.2 | 10.8 | 2.3 | 3.9 | 1.8 | 1.8 | 1.2 | 7.6 | 21.1 | 21.5 | 8.3 5.8 |
| C.V. (%) | 15.6 | 20.4 | 12.4 | 18.1 | 14.7 | 10.4 | 17.9 | 16.3 | 22.6 | 23.7 | 14.4 | 4.1 | 15.2 | 15.0 | 9.6 3.9 |

TABLE 3E. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT GREEN VALLEY, AZ (COUNTRY CLUB OF GREEN VALLEY) 1/ 1998-2001 DATA

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

| | GENETIC | SPRING | LEAF | SEEDLING | GQUALITY RATINGS | | | | | | | | |
|------------|---------|---------|---------|----------|------------------|------|------|------|------|------|------|------|------|
| NAME | COLOR | GREENUP | TEXTURE | VIGOR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | MEAN |
| TIFEAGLE | 7.1 | 6.3 | 7.7 | 6.3 | 4.8 | 6.0 | 6.9 | 7.0 | 7.6 | 6.8 | 6.8 | 6.7 | 6.8 |
| TIFGREEN | 7.2 | 6.7 | 6.5 | 6.3 | 4.5 | 5.1 | 6.1 | 5.9 | 7.2 | 7.8 | 7.3 | 6.8 | 6.6 |
| TIFDWARF | 6.7 | 7.0 | 7.5 | 6.7 | 4.2 | 6.8 | 7.3 | 7.6 | 6.7 | 5.3 | 6.0 | 6.0 | 6.4 |
| MINI-VERDE | 7.0 | 5.9 | 8.2 | 5.0 | 3.8 | 5.1 | 6.4 | 6.4 | 7.9 | 6.2 | 6.3 | 5.4 | 6.1 |
| MS-SUPREME | 6.4 | 6.6 | 7.5 | 5.3 | 4.5 | 5.3 | 6.2 | 5.9 | 7.0 | 6.2 | 5.7 | 5.9 | 6.1 |
| FLORADWARF | 5.4 | 5.4 | 5.6 | 8.7 | 6.2 | 4.9 | 5.2 | 5.3 | 4.8 | 5.9 | 6.3 | 7.0 | 5.8 |
| CHAMPION | 6.3 | 5.0 | 7.8 | 5.7 | 3.2 | 4.7 | 5.4 | 5.6 | 6.7 | 5.6 | 5.2 | 4.1 | 5.4 |
| LSD VALUE | 0.8 | 1.6 | 0.5 | 0.9 | 1.2 | 1.1 | 1.3 | 1.2 | 0.9 | 1.7 | 1.2 | 1.1 | 0.7 |
| C.V. (%) | 14.6 | 23.4 | 8.6 | 8.9 | 22.1 | 21.0 | 19.9 | 19.8 | 15.1 | 24.7 | 21.4 | 19.5 | 13.1 |

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.

1998 On Site Bermudagrass test with permission from NTEPTABLE 4A.1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

| ESTABLISHMENT | | FUNGICIDES | | | OTHER PRODUCTS | | |
|--|---------------------------------|--------------|--------------|--------------|----------------|-----------------------|--------------|
| Planting date Problems during | 29-May-98 None | Date(s) | Product | Rate (oz./M) | Date(s) | Product | Rate (oz./M) |
| 2 | | 19-Jun-98 | Heritage | 0.4 | 10-Jun-98 | Turf Partners Eco-Mag | 34 |
| | | 01-Jul-98 | Daconil | 4 | 10-Jun-98 | Deep Green FeSO4 | 1.6 lb./M |
| FACTORS OF PLAY | | 14-Jul-98 | Alliette | 4 | 15-Jun-98 | Deep Green FeSO4 | 1.3 lb./M |
| | | 11-Aug-98 | Fore | 8 | 19-Jun-98 | Roots 1-2-3 | 34 |
| Date opened for play | not opened in 1998 | 21-Aug-98 | Clearys 3336 | 8 | 01-Jul-98 | Turf Partners Eco-Mag | 34 |
| Date closed for play | | 02-Sep-98 | Subdue | 2 | 04-Aug-98 | Turf Partners Eco-Mag | 34 |
| Type of spikes allowed | | 02-Sep-98 | Fore | 8 | 25-Aug-98 | Turf Partners Eco-Mag | 34 |
| Uses of green | | 14-Sep-98 | Daconil 2787 | 5 | 14-Sep-98 | Roots | 17 |
| - | | 24-Oct-98 | Subdue | 2 | 22-Sep-98 | Roots | 34 |
| MOWING | | 24-Oct-98 | Fore | 8 | 08-Oct-98 | Roots | 17 |
| | | 25-Nov-98 | Fore | 8 | 06-Nov-98 | Turf Partners Eco-Mag | 34 |
| Initial height | 3/8" | 22-Dec-98 | Chipco 26 GT | 6 | 06-Nov-98 | Thio-cal (6% calcium) | 68 |
| Current height | 1/4" | | | | 17-Nov-98 | FeSO4 | 1.6 lbs./M |
| Frequency | 5 days/week | | | | 17-Nov-98 | Lesco Micro-Mix | 34 |
| Type of mower | triplex and walking | HERBICIDES | | | 25-Nov-98 | FeSO4 | 1.3 lbs./M |
| Rollers used | roller on triplex | Date(s) | Product | Rate (oz./M) | | | |
| Groomers used | Jacobsen groomers | | | | | | |
| | | None | | | | | |
| CULTIVATION | | | | | NOTES/COMMENTS | | |
| Aerfication - dates Aerification - type | None | INSECTICIDES | | | | | |
| Verticutting Dates of topdressing | None 02-Sep-98 | Date(s) | Product | Rate (oz./M) | | | |
| Other cultural practices | rolled monthly to help level | 10-Aug-98 | Merit | 1.6 | | | |

TABLE 4A. (CONT'D)

1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

FERTILIZATION

FERTILIZATION

| Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (lbs./M) |
|-----------|---------------------------|---------------|-----------|---------------------------|---------------|
| 04-Jun-98 | Best 11-55-0 | 0.4 lbs. N | 14-Sep-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 04-Jun-98 | Best 0-0-50 | 2 lbs. K | 14-Sep-98 | Peters 20-10-20 | 0.06 lbs. N |
| 09-Jun-98 | Par-Ex 25-4-8 | 0.55 lbs. N | 14-Sep-98 | Nutriculture 28-8-18 | 0.08 lbs. N |
| 10-Jun-98 | Turf Partners 1-0-23 | 0.07 lbs. K | 22-Sep-98 | Peters 20-10-20 | 0.06 lbs. N |
| 10-Jun-98 | Turf Partners 24-0-0 | 0.07 lbs. N | 22-Sep-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 10-Jun-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 23-Sep-98 | Best 10-4-16 | 0.41 lbs. N |
| 15-Jun-98 | Turf Partners 24-0-0 | 0.07 lbs. N | 30-Sep-98 | Best 10-4-16 | 0.41 lbs. N |
| 15-Jun-98 | Turf Partners 1-0-23 | 0.07 lbs. K | 08-Oct-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 16-Jun-98 | Best 25-4-8 | 0.73 lbs. N | 08-Oct-98 | K-Power 14-0-46 | 0.04 lbs. N |
| 01-Jul-98 | Turf Partners 1-0-23 | 0.07 lbs. K | 08-Oct-98 | Peters 20-10-20 | 0.06 lbs. N |
| 01-Jul-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 16-Oct-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 01-Jul-98 | Turf Partners 24-0-0 | 0.07 lbs. N | 16-Oct-98 | Peters 20-10-20 | 0.06 lbs. N |
| 03-Jul-98 | Turf Partners 1-0-23 | 0.07 lbs. K | 16-Oct-98 | Turf Partners 3-0-14 | 0.02 lbs. K |
| 03-Jul-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 24-Oct-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 13-Jul-98 | Turf Partners 1-0-23 | 0.28 lbs. N | 24-Oct-98 | Peters 20-20-20 | 0.06 lbs. N |
| 13-Jul-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 30-Oct-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 14-Jul-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N | 30-Oct-98 | Peters 20-10-20 | 0.06 lbs. N |
| 14-Jul-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 31-Oct-98 | Best 10-4-16 | 0.58 lbs. N |
| 16-Jul-98 | Best 5-16-22 | 0.41 lbs. N | 06-Nov-98 | Turf Partners 1-0-23 | 0.07 lbs. K |
| 04-Aug-98 | Turf Partners 1-0-23 | 0.07 lbs. K | 06-Nov-98 | Turf Partners 7-0-0 | 0.02. lbs. N |
| 04-Aug-98 | Turf Partners 24-0-0 | 0.07 lbs. N | 13-Nov-98 | Turf Partners 1-0-23 | 0.07 lbs. K |
| 04-Aug-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N | 13-Nov-98 | Turf Partners 7-0-0 | 0.02. lbs. N |
| 11-Aug-98 | Turf Partners 1-0-23 | 0.07 lbs. K | 13-Nov-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N |
| 15-Aug-98 | Best 25-4-8 | 0.55 lbs. N | 13-Nov-98 | Nutriculture 28-8-18 | 0.08 lbs. N |
| 17-Aug-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N | 17-Nov-98 | Turf Partners 1-0-23 | 0.07 lbs. K |
| 17-Aug-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 17-Nov-98 | Turf Partners 7-32-6 | 0.02 lbs. N |
| 25-Aug-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N | 25-Nov-98 | Turf Partners 7-0-0 | 0.02. lbs. N |
| 25-Aug-98 | Nutriculture 28-8-18 | 0.08 lbs. N | 25-Nov-98 | Turf Partners 7-32-6 | 0.02 lbs. N |
| 02-Sep-98 | Gold-N-Grow 10-0-0 w/iron | 0.03 lbs. N | 25-Nov-98 | Turf Partners 1-0-23 | 0.07 lbs. K |
| 09-Sep-98 | Peters 20-10-20 | 0.06 lbs. N | 03-Dec-98 | Best 10-4-16 | 0.47 lbs. N |
| - | | | | TOTAL - 1998 | 6.43 lbs. N |
| | | | | | 5.18 lbs. P |
| | | | | | |

8.8 lbs. K

| TABLE 4B. 1999 MANAGEME 1998 On Site Bermudagrass test with permission | NT - ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB) ermission from NTEP |
|--|--|
|--|--|

| ESTABLISHMENT | | FUNGICIDES | | |
|---|---|---------------------------------------|---|---------------------------|
| Planting date Problems during | 29-May-98 None | Date(s) | Product | Rate (oz./M) |
| r toblenis during | TUNE | 05-Aug | Alliette | 4 |
| | | | Fore (WP) | 8 |
| FACTORS OF PLAY | | 14-Sep | Alliette | 4 |
| Date opened for play | opened on July | r i sep | Fore (WP) | 8 |
| Date closed for play | | | | |
| Type of spikes allowed Uses of green | Metal spikes, Softspikes Putting, Chipping | HERBICIDES | | |
| Uses of green | r uunig, Chipping | HERDICIDES | | |
| MOWING | | Date(s) | Product | Rate (oz./M) |
| Initial height | 1/2" | None | | |
| Current height | 3/25" | INOILE | | |
| Frequency | Daily | INSECTICIDES | | |
| Type of mower | triplex | \mathbf{D} | | |
| Rollers used Groomers used | Jacobsen GreensKing V - triplex attachments for groomers | Date(s) | Product | Rate (oz./M) |
| Groomers used | and rollers | 12-Jul | Merit (75 WSP) | 0.19 |
| CULTIVATION | | | | |
| | | OTHER PRODUCTS | | |
| Aerfication - dates | Sept. 16 | $\mathbf{D}_{\mathbf{r}}(\mathbf{r})$ | Declard | $\mathbf{D}_{\mathbf{r}}$ |
| Aerification - type | 1/4" solid tine - follwed by topdressing (USGA spec.) | Date(s) | Product | Rate (oz./M) |
| Verticutting | monthly on July, August, | None | | |
| | September, October | | | |
| Dates of topdressing | light to moderate - monthly in | | NOTES/C | OMATNE |
| | July, August, September, October | | NOTES/C | COMMENTS |
| Other cultural practices | rolled and brushed for | | -Very high traffic practice gr | reen |
| | tournament dates | | -Plots are doing very well | |
| | | | -Green is flushed monthly w -Green is irrigated to prevent | • |
| | | | -oreen is inigated to preven | 1 511 585 |

1998 On Site Bermudagrass test with permission from NTEP TABLE 4B. (CONT'D) 1999 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

FERTILIZATION

FERTILIZATION

| Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (lbs./M) |
|---------|-------------------------------|---------------|---------|-------------------------|---------------|
| 15-Mar | Best 10-4-16 | 1 lb. N | 10-Jun | Nutriculture 24-0-0 | 0.07 lbs. N |
| 02-Apr | Nutriculture 20-20-20 | 0.06 lbs. N | | Turf Partners 1-0-23 | 0.14 lbs. K |
| - | Nutriculture 24-0-0 | 0.07 lbs. N | | Turf Partners (w/8% ch | elated Fe) |
| 05-Apr | Best 10-4-16 | 0.5 lbs. N | 21-Jun | Turf Partners 1-0-23 | 0.07 lbs. K |
| 08-Apr | Turf Partners 1-0-0 (w/8% Ca) | | | Nutriculture 24-0-0 | 0.07 lbs. N |
| | Turf Partners 1-0-23 | 0.07 lbs. K | 22-Jun | Pursell 0-0-46 | 2.6 lbs. K |
| | Nutriculture 28-8-18 | 0.08 lbs. N | 25-Jun | Turf Partners - Gypsum | |
| | Nutriculture 24-0-0 | 0.07 lbs. N | 03-Jul | Best 18-3-18 (Polyon) | 1 lbs. N |
| 12-Apr | Best 18-3-18 (Polyon) | 0.50 lbs. N | 06-Jul | Turf Partners 1-0-23 | 0.07 lbs. K |
| 23-Apr | Nutriculture 28-8-18 | 0.08 lbs. N | | Nutriculture 24-0-0 | 0.07 lbs. N |
| | Turf Partners - Eco-Mag | | 21-Jul | Pac. Ag. & Turf 0-0-25 | 0.08 lbs. K |
| | Crown Tech. (FeSO4) | | | Nutriculture 24-0-0 | 0.10 lbs. N |
| 24-Apr | Turf Partners - Gypsum | | 16-Aug | Pac. Ag. & Turf 0-0-25 | 0.08 lbs. K |
| 28-Apr | Nutriculture 28-8-18 | 0.08 lbs. N | | Nutriculture 24-0-0 | 0.07 lbs. N |
| | Turf Partners 1-0-23 | 0.07 lbs. K | 19-Aug | Turf Partners 1-0-23 | 0.07 lbs. K |
| | Turf Partners - Eco-Mag | | | Nutriculture 28-8-18 | 0.08 lbs. N |
| | Promot | | | Sequestar - 13% Fe | |
| | Crown Tech. (FeSO4) | | 07-Sep | Turf Partners 1-0-23 | 0.07 lbs. K |
| 03-May | Nutriculture 24-0-0 | 0.07 lbs. N | | K-power 13.75-0-46 | 0.13lbs. K |
| 04-May | Best 18-3-18 (Polyon) | 0.53 lbs. N | 14-Sep | Turf Partners 1-0-0-8Ca | |
| 10-May | Nutriculture 28-8-18 | 0.08 lbs. N | | Turf Partners 1-0-23 | 0.07 lbs. K |
| | Crown Tech. (FeSO4) | | | Nutriculture 24-0-0 | 0.07 lbs. N |
| | Turf Partners 1-0-23 | 0.04 lbs. K | 20-Sep | Best 10-4-16 | 0.35 lbs. N |
| | Turf Partners - Eco-Mag | | 04-Oct | Best 10-4-16 | 0.26 lbs. N |
| 21-May | Nutriculture 20-20-20 | 0.06 lbs. N | 25-Oct | Turf Partners 1-0-23 | 0.10 lbs. K |
| | Turf Partners 1-0-23 | 0.04 lbs. K | | Nutriculture 28-8-18 | 0.08 lbs. N |
| | Crown Tech. (FeSO4) | | 19-Nov | K-power 13.75-0-46 | 0.13lbs. K |
| 27-May | Nutriculture 28-8-18 | 0.08 lbs. N | | Turf Partners 1-0-0-8Ca | |
| | Crown Tech. (FeSO4) | | | Turf Partners 1-0-23 | 0.07 lbs. K |
| 31-May | Nutriculture 28-8-18 | 0.08 lbs. N | | Crown Tech. (FeSO4) | |
| | Nutriculture 24-0-0 | 0.07 lbs. N | | | |
| | | | | TOTAL - 1999 | 5.71 lbs. N |
| | | | | | 3.53 lbs. P |
| | | | | | 9.83 lbs. K |

1998 On Site Bermudagrass test with permission from NTEP

TABLE 4C.

2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

| ESTABLISHMENT | | FUNGICIDES | | |
|---|--|--------------------------------------|---|----------------------|
| Planting date Problems during | 29-May-98 None | Date(s) | Product | Rate (oz./M) |
| FACTORS OF PLAY Date opened for play | | 27-Jul 03-Aug 03-Aug 14-Aug | Daconil WS Alliette Fore (WP) Subdue Maxx | 2 4 8 1 |
| Date closed for play Type of spikes allowed Uses of green | Softspikes only putting, chipping, target. Heavy use PPG. | 14-Aug 20-Nov | Fore (WP) 26 Chipco GT Flo. | 8 5 |
| MOWING | | HERBICIDES | | |
| Initial height Current height | 0.125" 0.125" | Date(s) | Product | Rate (oz./M) |
| Frequency Type of mower | 7 days/week Triplex - GKV | None | | |
| Rollers used Groomers used | Groomers used approximate 4 days/week. Rollers used 1-2 times per month. | INSECTICIDES | | |
| CULTIVATION | | Date(s) | Product | Rate (oz./M) |
| Aerfication - dates Aerification - type Verticutting | 3/14, 10/10 5/8" hollow tine 2-3 times/month depending upon thatch except NovMay. | 11-Jul 14-Aug | Merit (75 WSP) Tempo 20 WP | 0.19 5 grams/1000 |
| Dates of topdressing | Heavy topdressing w/USGA spec. sand on 3/14, | OTHER PRODUCTS | | |
| | 10/10, following aerification. Light topdressing w/#30 silica sand monthly except NovMar. | Date(s) | Product | Rate (oz./M) |
| Other cultural practices | Heavy brushing in Mar., Oct. Rolled for special tournament events which is 1-2 times/month. Flushed with 6" of irrigation water once every 3 | None | NOTES/COMMENTS | |
| | weeks from June-Oct. to lower High E.C. (100% reclaimed irrigation use in 2000) | | nnial Ryegrass (Certified Blue parations included verticutting | |

FERTILIZATION

FERTILIZATION

| Date(s) | Product | Product | R | ate (lbs./N | (N | Date(s) | Product | Product | R | ate (lbs./N | (N |
|------------------|---------------|---------------|------|-------------|------|---------|---------------|------------------|------|-------------|------|
| | Name | Analysis | Ν | P | K | | Name | Analysis | Ν | P | K |
| 05-Jan | Turf Partners | 7-0-0 | 0.02 | | | 17-Mar | Nutriculture | 34-0-0 | 0.04 | | |
| 05-Jan 05-Jan | Turf Partners | 1-0-23 | 0.02 | | 0.07 | 17-Mar | Turf Partners | Eco-Mag | 0.04 | | |
| 05-Jan 05-Jan | Turf Partners | 7-32-6 | 0.02 | 0.1 | 0.07 | 17-Mar | Crown Tech. | FeSO4 | | | |
| | | FeSO4 | 0.02 | 0.1 | 0.02 | | | | 0.00 | 0.02 | 0.05 |
| 05-Jan | Crown Tech. | | 0.00 | 0.00 | 0.00 | 27-Mar | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 14-Jan | Nutriculture | 20-20-20 | 0.08 | 0.08 | 0.08 | 27-Mar | Turf Partners | 1-0-23 | 0.02 | 0.1 | 0.07 |
| 14-Jan | Turf Partners | 1-0-23 | 0.00 | | 0.07 | 27-Mar | Turf Partners | 7-32-6 | 0.02 | 0.1 | 0.02 |
| 14-Jan | Turf Partners | 7-0-0 | 0.02 | | | 27-Mar | Crown Tech. | FeSO4 | | | |
| 14-Jan | Crown Tech. | FeSO4 | | | | 02-Apr | Turf Partners | Gypsum | | | |
| 14-Jan | Turf Partners | 7-32-6 | 0.02 | 0.1 | 0.02 | 03-Apr | Turf Partners | 34-0-0 | 0.01 | | |
| 24-Jan | Turf Partners | 1-0-23 | | | 0.07 | 03-Apr | Turf Partners | 1-0-0 (8% Ca) | | | |
| 24-Jan | Turf Partners | Eco-Mag | | | | 03-Apr | Turf Partners | 1-0-23 | | | 0.07 |
| 24-Jan | Turf Partners | 7-32-6 | 0.02 | 0.1 | 0.02 | 03-Apr | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 24-Jan | Turf Partners | 7-0-0 | 0.02 | | | 03-Apr | Nutriculture | 24-0-0 | 0.07 | | |
| 09-Feb | Best | 10-4-16 | 0.4 | 0.16 | 1.62 | 14-Apr | Turf Partners | 34-0-0 | 0.1 | | |
| 22-Feb | True Green | 34-0-0 | 0.04 | | | 14-Apr | | 0-0-34 | | | 0.09 |
| 22-Feb | Turf Partners | 7-0-0 | 0.02 | | | 18-Apr | Best | 18-3-18 (Polyon) | 0.5 | 0.08 | 0.5 |
| 22-Feb | Turf Partners | Eco-Mag | | | | 23-Apr | Turf Partners | 0-0-34 | | | 0.2 |
| 22-Feb | Crown Tech. | FeSO4 | | | | 23-Apr | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 01-Mar | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 | 23-Apr | Turf Partners | Eco-Mag | | | |
| 01-Mar | Turf Partners | 1-0-23 | | | 0.07 | 23-Apr | Crown Tech. | FeSO4 | | | |
| 01-Mar | Turf Partners | 1-0-0 (8% Ca) | | | | 26-Apr | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 01-Mar | Turf Partners | 7-32-6 | 0.02 | 0.1 | 0.02 | 26-Apr | Turf Partners | 1-0-23 | | | 0.07 |
| 01-Mar | Turf Partners | Eco-Mag | | | | 26-Apr | Turf Partners | Eco-Mag | | | |
| 01-Mar | Crown Tech. | FeSO4 | | | | 26-Apr | promot | Promot | | | |
| 02-Mar | Best | 10-4-16 | 0.62 | 0.25 | 0.99 | 26-Apr | Crown Tech. | FeSO4 | | | |
| 02-Mar | Turf Partners | 1-0-0 (8% Ca) | 0.02 | 0.20 | 0.77 | 01-May | Turf Partners | 34-0-0 | 0.07 | | |
| 08-Mar | Turf Partners | 1-0-23 | | | 0.07 | 01-May | Crown Tech. | FeSO4 | 0.07 | | |
| 08-Mar | Turf Partners | 7-32-6 | 0.02 | 0.1 | 0.07 | 07-May | Best | 18-3-18 (Polyon) | 0.5 | 0.08 | 0.5 |
| 08-Mar | Turf Partners | 7-0-0 | 0.02 | 0.1 | 0.02 | 12-May | Nutriculture | 28-8-18 | 0.3 | 0.08 | 0.3 |
| | | | | 0.06 | 0.06 | - | | | 0.08 | 0.02 | 0.03 |
| 17-Mar | Nutriculture | 20-20-20 | 0.06 | 0.06 | 0.06 | 12-May | Crown Tech. | FeSO4 | | | |

FERTILIZATION

FERTILIZATION

| Date(s) | Product | Product | R | ate (lbs./N | (N | Date(s) | Product | Product | R | ate (lbs./N | (N |
|---------|-----------------|----------------|------|-------------|------|---------|---------------|------------|------|-------------|-------|
| | Name | Analysis | Ν | P | K | | Name | Analysis | Ν | P | K |
| 12-May | Turf Partners | 1-0-23 | | | 0.04 | 11-Sep | Turf Partners | 1-0-23 | | | 0.07 |
| 12-May | Turf Partners | Eco-Mag | | | 0.04 | 11-Sep | Nutriculture | 34-0-0 | 0.1 | | 0.07 |
| 23-May | Nutriculture | 20-20-20 | 0.06 | 0.06 | 0.06 | 19-Sep | Best | 10-4-16 | 0.62 | 0.25 | 0.99 |
| 23-May | Turf Partners | 1-0-23 | 0.00 | 0.00 | 0.00 | 01-Oct | Turf Partners | Gypsum | 0.02 | 0.25 | 0.77 |
| 23-May | Crown Tech. | FeSO4 | | | 0.04 | 04-Oct | Best | 10-4-16 | 0.26 | 0.11 | 0.42 |
| 31-May | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 | 25-Oct | Turf Partners | 0-0-34 | 0.20 | 0.11 | 0.42 |
| 31-May | Nutriculture | 24-0-0 | 0.07 | 0.02 | 0.05 | 25-Oct | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 14-Jun | Nutriculture | 34-0-0 | 0.07 | | | 02-Nov | Turf Partners | Gypsum | 0.00 | 0.02 | 0.05 |
| 14-Jun | Turf Partners | 1-0-23 | 0.07 | | 0.14 | 12-Nov | K-Power | 34-0-0 | 0.1 | | |
| 14-Jun | Turf Partners | 8% chelated Fe | | | 0.14 | 12-Nov | Turf Partners | 1-0-23 | 0.1 | | 0.07 |
| 19-Jun | Turf Partners | 0-0-34 | | | 0.07 | 12-Nov | Crown Tech. | FeSO4 | | | 0.07 |
| 19-Jun | Nutriculture | 24-0-0 | 0.07 | | 0.07 | 15-Nov | Turf Partners | Eco-Mag | | | |
| 24-Jun | Pursell | 0-0-46 | 0.07 | | 1.1 | 15-Nov | Turf Partners | 1-0-23 | | | 0.14 |
| 10-Jul | Turf Partners | 0-0-34 | | | 0.07 | 15-Nov | K-Power | 13.75-0-46 | 0.04 | | 0.13 |
| 10-Jul | Turf Partners | 7-0-0 | 0.1 | | 0.07 | 15-Nov | Nutriculture | 20-20-20 | 0.06 | 0.06 | 0.06 |
| 16-Jul | Turf Partners | Gypsum | 0.1 | | | 15-Nov | Crown Tech. | FeSO4 | 0.00 | 0.00 | 0.00 |
| 27-Jul | Pac. Ag. & Turf | 0-0-25 | | | 0.08 | 27-Nov | Turf Partners | 0-0-34 | | | 0.07 |
| 27-Jul | Nutriculture | 24-0-0 | 0.1 | | 0.00 | 27-Nov | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 08-Aug | Pac. Ag. & Turf | 0-0-25 | 0.1 | | 0.1 | 03-Dec | Lebenon S.G. | 20-0-20 | 0.5 | 0.02 | 0.5 |
| 08-Aug | Nutriculture | 24-0-0 | 0.1 | | 0.1 | 07-Dec | K-Power | 13.75-0-46 | 0.04 | | 0.13 |
| 17-Aug | Turf Partners | 34-0-0 | 0.11 | | | 07-Dec | Turf Partners | 34-0-0 | 0.01 | | 0.07 |
| 19-Aug | Turf Partners | 0-0-34 | | | 0.07 | 07-Dec | Turf Partners | 1-0-0-8Ca | | | , |
| 19-Aug | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 | 16-Dec | Best | 10-4-16 | 0.4 | 0.16 | 1.62 |
| 19-Aug | Sequestar | 13% Fe | | | | 22-Dec | Nutriculture | 28-8-18 | 0.08 | 0.02 | 0.05 |
| 05-Sep | Turf Partners | 0-0-34 | | | 0.07 | 22-Dec | Turf Partners | 34-0-0 | | | 0.07 |
| 05-Sep | K-Power | 13.75-0-46 | 0.04 | | 0.13 | 22-Dec | Crown Tech. | FeSO4 | | | , |
| 05-Sep | Sequestar | 13% Fe | | | | 27-Dec | Turf Partners | 34-0-0 | | | 0.1 |
| 11-Sep | Turf Partners | 1-0-0-8Ca | | | | 27-Dec | Nutriculture | 20-20-20 | 0.1 | 0.1 | 0.1 |
| ſ | | | | | | | | | | | |
| | | | | | | | | Total | 7.53 | 1.89 | 12.09 |

1998 On Site Bermudagrass test with permission from NTEPTABLE 4D.2001 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB)

| ESTABLISHMENT | | FUNGICIDES | | |
|--------------------------|--|----------------|---------------------------|--------------|
| Planting date | 29-May-98 | Date(s) | Product | Rate (oz./M) |
| Problems during | None | 18-Jul | Alliette | 4 |
| | | 18-Jul | Fore (WP) | 8 |
| FACTORS OF PLAY | | 30-Jul | Daconil WS | 8 |
| | | 25-Aug | Subdue Maxx | 1 |
| Date opened for play | | 25-Aug | Fore (WP) | 8 |
| Date closed for play | | 20 1108 | | 0 |
| Type of spikes allowed | Softspikes only | | | |
| Uses of green | putting, chipping, target. Heavy use PPG. | | | |
| C | | | | |
| MOWING | | HERBICIDES | | |
| Initial height | 0.125" | Date(s) | Product | Rate (oz./M) |
| Current height | 0.125" | (2) | | |
| Frequency | 7 days/week | None | | |
| Type of mower | Triplex - GKV | | | |
| Rollers used | Groomers used approximate 4 days/week. | | | |
| Groomers used | Rollers used 1-2 times per month. | INSECTICIDES | | |
| | - | | | |
| CULTIVATION | | Date(s) | Product | Rate (oz./M) |
| Aerfication - dates | 3/12, 10/9 | 02-Jul | Merit (75 WSP) | 0.19 |
| Aerification - type | 5/8" hollow tine | 14-Sep | Tempo 20 WP | 5 grams/1000 |
| Verticutting | 2-3 times/month depending upon thatch except | | | |
| | NovMay. | | | |
| Dates of topdressing | Heavy topdressing w/USGA spec. sand on 3/14, | OTHER PRODUCTS | | |
| | 10/10, following aerification. Light topdressing | 5() | | |
| | w/#30 silica sand monthly except NovMar. | Date(s) | Product | Rate (oz./M) |
| | | None | | |
| Other cultural practices | Heavy brushing in Mar., Oct. Rolled for special | | | |
| - | tournament events which were 1-2 times/month. | | NOTES/COMMENTS | |
| | Flushed with 6" of irrigation water once every 3 | | | |
| | weeks from June-Oct. to lower high E.C. (100% | | No overseeding this Fall. | |
| | reclaimed irrigation use in 2001) | | | |
| | | | | |

TABLE 4E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT MURRIETA, CA (SCGA MEMBERS CLUB) 1/ 1998-2001 DATA

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

| | | | PERCENT COVER | PER | CENT | STIMPMETE | R READINGS | | | | | | | | |
|-----------------------|------------|------------|------------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|
| | GENETIC | LEAF | SPRING | ESTABL | ISHMENT | SUMMER | FALL | | | Ç | UALITY | RATINGS | | | |
| NAME | COLOR | TEXTURE | 2000 | 3 WEEKS | 6 WEEKS | 2000 | 1999-01 | APR | MAY | JUN | JUL | AUG | SEP | OCT | MEAN |
| MS-SUPREME | 7.8 | 7.2 | 81.7 | 7.3 | 7.7 | 132.3 | 105.7 | 8.0 | 8.0 | 7.0 | 8.0 | 7.1 | 7.6 | 8.0 | 7.5 |
| MINI-VERDE | 7.7 | 7.2 | 68.3 | 5.0 | 6.0 | 124.7 | 101.8 | 7.0 | 8.0 | 6.5 | 7.8 | 7.2 | 7.4 | 7.8 | 7.3 |
| CHAMPION | 7.6 | 7.2 | 60.0 | 4.7 | 6.3 | 123.3 | 102.0 | 7.0 | 8.0 | 6.3 | 7.8 | 6.9 | 7.3 | 7.2 | 7.1 |
| TIFEAGLE | 7.6 | 6.8 | 75.0 | 4.7 | 6.0 | 129.3 | 108.3 | 7.0 | 7.3 | 6.5 | 7.7 | 6.7 | 7.0 | 7.3 | 6.9 |
| FLORADWARF | 6.4 | 6.8 | 63.3 | 3.7 | 6.3 | 126.0 | 107.4 | 6.0 | 8.0 | 6.5 | 7.5 | 6.4 | 6.6 | 6.5 | 6.5 |
| TIFGREEN | 6.3 | 5.9 | 53.3 | 7.3 | 8.7 | 122.7 | 103.2 | 6.3 | 6.0 | 6.0 | 6.8 | 6.0 | 6.6 | 6.8 | 6.4 |
| TIFDWARF | 6.6 | 5.9 | 46.7 | 5.7 | 7.0 | 129.0 | 104.8 | 6.0 | 6.7 | 6.0 | 6.5 | 6.0 | 6.4 | 6.2 | 6.2 |
| LSD VALUE C.V. (%) | 0.5 7.5 | 0.5 7.8 | 16.1 13.7 | 1.3 14.0 | 1.6 12.4 | 14.9 4.9 | 5.3 4.6 | 0.4 3.2 | 0.5 4.0 | 0.9 9.3 | 0.6 6.8 | 0.9 12.6 | 0.6 8.9 | 0.5 5.9 | 0.4 6.7 |

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 5A. 1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB) 1998 On Site Bermudagrass test with permission from NTEP

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|--|---|---------------|---------|--|--|---------|--------------|
| Planting date Problems during | | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| roblems during | | Fall 1998 | | 1 lb. N per month 1.5 lb. K per month | None | | |
| FACTORS OF PLAY | | | | 1.0 10: 12 per monu | | | |
| Date opened for play Date closed for play Type of spikes allowed | | | | | INSECTICIDES | | |
| Uses of green | | | | | Date(s) | Product | Rate (oz./M) |
| | putting | | | | None | | |
| MOWING | | | | | | | |
| Initial height Current height | 1/8" | | | | | | |
| Frequency Type of mower | 7 days/week | FUNGICIDES | | | OTHER PRODUCTS | | |
| Rollers used Groomers used | | Date(s) | Product | Rate (oz./M) | Date(s) | Product | Rate (oz./M) |
| CULTIVATION | | None | | | None | | |
| Aerfication - dates | | | | | | | |
| Aerification - type Verticutting | | | | | NOTES/COMMENTS | | |
| Dates of topdressing | 2-4 times per month lightly with dried sand | | | | Irrigation as needed | | |
| Other cultural practices | | | | | with heavy application every 4-6 days | | |

TABLE 5998 On Site B9999 UMBY INSTERS OF INFORMATION OF THE PROVIDED BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB)

| ESTABLISHMENT |] | FERTILIZATION | | | HERBICIDES | | |
|----------------------------------|-------------------------------|------------------|------------------|-------------------|---|------------|--------------|
| Planting date Problems during | | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| 1 toblems during | | Granu | lar: 13-4-13 and | 0-0-30 | None | | |
| | | Summer | 0-0-30 | 5 lbs./month | | | |
| FACTORS OF PLAY | | Summer | 13-4-13 | 1 lb. N/ month | | | |
| Date opened for play | | Foliar: Coron 28 | 8-0-0, Monopota | ssium Phosphate, | | | |
| Date closed for play | | | Roots 1-2-3 | | INSECTICIDES | | |
| Type of spikes allowed | softspikes | Winter | | 3/4 lb. N/month | | D 1 (| |
| Uses of green | chipping, short game area | Summer | | 1/2 lb. N/month | Date(s) | Product | Rate (oz./M) |
| | | | | | None | | |
| MOWING | | | | | | | |
| Initial height | 0.18" | | | | | | |
| Current height | 0.10" | | | | | | |
| Frequency | 7 days/week | FUNGICIDES | | | | | |
| Type of mower | | | | | OTHER PRODUCTS | | |
| Rollers used | None | Date(s) | Product | Rate (oz./M) | | D 1 | |
| Groomers used | | | T | | Date(s) | Product | Rate (oz./M) |
| CULTIVATION | | | - | ve been used on a | None | | |
| COLINATION | | | curativ | e program. | INDIE | | |
| Aerfication - dates | Aerified (2x)- hollow tines. | | | | | | |
| Aerification - type | Hydroject -1x/month | | | | | | |
| Verticutting | 2 times last season with Ren- | | | | NOTES/COMMENTS | | |
| | o-thin (2 directions) | | | | Tunita di su sa usa da d | | |
| Dates of topdressing | walk topdress with LESCO | | | | Irrigation as needed with heavy application | | |
| Dates of topulessing | rotary spreader weekly | | | | every 4-6 days | | |
| | during season. Use pull | | | | | | |
| | behind spread biweekly | | | | | | |
| | during the Winter season | | | | | | |
| Other cultural practices | None | | | | | | |

1998 On Site Bermudagrass test with permission from NTEPTABLE 5C.2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB)

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

Other cultural practices

None

1998 On Site Bermudagrass test with permission from NTEPTABLE 5D.2001 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|--|---------------------------------|-------------------------------------|-------------------|--------------------------|----------------|---------|---------------|
| Planting date Problems during | | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| | | Greens Foli | ar Program (| weekly spray) | None | | |
| FACTORS OF PLAY | | Week 1 | | | | | |
| Determined for allow | | Garys Greens | 18-3-4 | 0.23 lb. N | | | |
| Date opened for play | | P. K. Plus. | 3-21-18 | 0.13 lb. P | INSECTICIDES | | |
| Date closed for play Type of spikes allowed | None | Ultra Plex | 5-0-3 | 2.5 gal. Micro's | INSECTICIDES | | |
| Uses of green | softspikes | Week 1 | 10 2 4 | 0.23 lb. N | Date(s) | Product | Rate (oz./M) |
| Uses of green | chipping | Garys Greens P. K. Plus. | 18-3-4 3-21-18 | 0.23 lb. N 0.27 lb. P | Date(s) | FIOUUCI | Kate (02./WI) |
| | | \mathbf{P} . \mathbf{K} . Plus. | 3-21-18 8-0-4 | 0.27 lb. P 0.05 lb. N | None | | |
| MOWING | | | 8-0-4 | 0.03 IU. IN | None | | |
| | | Gr | anular Applica | itions | | | |
| Initial height | 0.125" | GI | | | | | |
| Current height | 0.125" | Year round 0-0-30 | once per mon | th at 1.5 lbs. K/1000. | | | |
| Frequency | daily | | - | on 12-0-20, 75% | | | |
| Type of mower | Jacobsen PGM | | | t 1 lb. Per 1000. | OTHER PRODUCTS | | |
| Rollers used | None | | | 4-13 during summer | | | |
| Groomers used | brushes used on front of mower | Supplemented wit | when needed | e | Date(s) | Product | Rate (oz./M) |
| CULTIVATION | | | | | None | | |
| | | FUNGICIDES | | | | | |
| Aerfication - dates | hollow tines May-Aug; solid Sep | | | | | | |
| Aerification - type | & Dec; water inject Jan-Mar. | Date(s) | Product | Rate (oz./M) | | | |
| | - | | | | NOTES/COMMENTS | | |
| Verticutting | deep - Jan May Jun Aug; | Heritage at reco | mmended rate | - 4 times last year | | | |
| | Light - 1X/month Apr-Nov. | | | | | | |
| Dates of topdressing | 3 times/month in Jun-Sep. | | | | | | |
| | once per month in Oct-Nov. | | | | | | |
| | light dusting in JanMarch. | | | | | | |
| Other cultural practices | Brushing as needed | | | | | | |

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TABLE 5E.

TABLE 5E.

(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB) 1/ 1998-2001 DATA

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

| | FALL | FALL | FALL | | | | | | | | | | | |
|------------|-----------|----------|----------|--------|----------|--------|-----------|----------|-------|---------|-----------|------------|------------|--------|
| | COLOR | COLOR | COLOR | STOLON | SHOOT 3/ | SI | FIMPMETER | READINGS | | | | | | |
| | SEPTEMBER | NOVEMBER | DECEMBER | COUNTS | COUNTS | SPRING | WINTER | 2000 | 2001 | | PERCENT E | STABLISHME | NT RATINGS | 5 |
| NAME | 2000-01 | 2001 | 2000-01 | 2000 | 2001 | 1999 | 1998-99 | | | JULY 14 | AUG.1 | AUG.14 | AUG.29 | SEP.26 |
| | | | | | | | | | | | | | | |
| MINI-VERDE | 8.2 | 8.0 | 8.3 | 318.7 | 337.0 | 126.0 | 91.0 | 116.3 | 107.3 | 31.7 | 60.0 | 85.0 | 96.3 | 99 |
| TIFEAGLE | 8.2 | 8.0 | 8.2 | 320.0 | 401.0 | 130.0 | 89.3 | 113.7 | 112.7 | 40.0 | 65.0 | 85.0 | 94.3 | 99 |
| CHAMPION | 7.2 | 7.7 | 8.2 | 402.7 | 434.0 | 131.3 | 94.7 | 112.7 | 113.7 | 40.0 | 63.3 | 81.7 | 97.0 | 99 |
| FLORADWARF | 7.5 | 7.7 | 8.2 | 303.7 | 382.0 | 143.3 | 104.7 | 112.3 | 120.3 | 31.7 | 55.0 | 86.7 | 99.0 | 99 |
| TIFDWARF | 8.7 | 8.3 | 7.7 | 275.3 | 258.0 | 124.7 | 92.0 | 118.3 | 113.7 | 25.0 | 53.3 | 80.0 | 96.0 | 99 |
| MS-SUPREME | 7.0 | 6.3 | 7.4 | 371.0 | 366.7 | 123.3 | 89.7 | 109.3 | 113.7 | 43.3 | 68.3 | 91.3 | 98.3 | 99 |
| TIFGREEN | 6.8 | 6.0 | 5.7 | 244.3 | 292.7 | 124.7 | 81.7 | 117.3 | 117.0 | 38.3 | 85.0 | 97.7 | 99.0 | 99 |
| | | | | | | | | | | | | | | |
| LSD VALUE | 0.9 | 0.8 | 1.2 | 113.7 | 103.9 | 11.7 | 16.8 | 18.0 | 6.7 | 18.2 | 21.2 | 8.2 | 4.6 | 0 |
| C.V. (응) | 10.0 | 6.0 | 16.8 | 17.4 | 15.2 | 4.7 | 8.6 | 6.2 | 3.0 | 23.1 | 16.3 | 5.1 | 2.2 | 0 |
| | | | | | | | | | | | | | | |

MEAN TURFGRASS QJALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT HOBE SOUND, FL (THE JUPITER ISLAND CLUB) 1/ 1998-2001 DATA

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

| | | | | | | THATCH | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|--------|-------------|------|------|------|------|------|--------|-------|-----|------|------|------|------|------|
| | GENETIC | LEAF | DENSITY | DENSITY | WINTER | MEASUREMENT | | | | | QUAI | LITY F | ATING | S | | | | | |
| NAME | COLOR | TEXTURE | SPRING | FALL | COLOR | 1999-01 | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | MEAN |
| MINI-VERDE | 8.6 | 8.4 | 7.7 | 8.5 | 8.0 | 5.7 | 8.5 | 8.2 | 8.8 | 7.0 | 7.1 | 7.0 | 8.3 | 9.0 | 8.5 | 7.0 | 8.3 | 8.2 | 8.1 |
| TIFEAGLE | 7.9 | 7.7 | 7.7 | 7.9 | 7.7 | 5.1 | 8.5 | 8.2 | 8.4 | 7.2 | 7.3 | 6.7 | 8.0 | 8.3 | 8.3 | 7.0 | 7.7 | 8.2 | 7.9 |
| CHAMPION | 8.2 | 8.0 | 7.7 | 7.6 | 7.7 | 5.4 | 8.5 | 8.2 | 8.2 | 7.3 | 6.9 | 6.7 | 8.3 | 7.3 | 7.7 | 6.0 | 7.6 | 8.3 | 7.6 |
| FLORADWARF | 7.6 | 7.5 | 7.7 | 7.2 | 7.0 | 5.3 | 7.3 | 7.2 | 7.7 | 6.3 | 6.8 | 6.7 | 7.3 | 8.0 | 8.1 | 7.7 | 7.3 | 7.5 | 7.4 |
| TIFDWARF | 7.5 | 6.8 | 7.3 | 7.2 | 5.3 | 5.2 | 6.5 | 6.8 | 7.7 | 6.8 | 7.3 | 8.0 | 8.0 | 9.0 | 8.7 | 6.3 | 7.9 | 6.9 | 7.4 |
| MS-SUPREME | 7.0 | 7.0 | 7.3 | 5.9 | 5.7 | 5.7 | 7.2 | 7.5 | 7.6 | 7.0 | 7.7 | 7.7 | 7.7 | 7.0 | 7.4 | 5.3 | 6.6 | 7.0 | 7.1 |
| TIFGREEN | 5.7 | 5.2 | 5.3 | 4.9 | 3.3 | 5.3 | 4.7 | 5.3 | 6.3 | 7.2 | 7.2 | 8.0 | 7.3 | 7.7 | 6.2 | 3.0 | 6.1 | 4.6 | 5.7 |
| LSD VALUE | 0.8 | 0.6 | 1.0 | 0.8 | 0.8 | 7.3 | 0.9 | 1.0 | 0.7 | 1.7 | 1.2 | 1.0 | 1.7 | 0.7 | 0.7 | 1.7 | 1.1 | 0.7 | 0.5 |
| C.V. (%) | 14.6 | 11.5 | 8.0 | 14.5 | 7.4 | 76.8 | 12.0 | 12.0 | 10.0 | 13.6 | 11.9 | 7.1 | 8.9 | 5.0 | 11.8 | 15.7 | 15.0 | 13.1 | 9.4 |

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.

3/ A TWO INCH DIAMETER CORE WAS TAKEN FROM EACH PLOT AND COUNTED ALL SHOOTS WITHIN THAT AREA.

1998 On Site Bermudagrass test with permission from NTEP TABLE 6A. 1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT ST. CHARLES, MO (THE MISSOURI BLUFFS G. C.)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|----------------------------------|-----------------------|------------------|------------------|----------------------|----------------|---------|--------------|
| Planting date Problems during | 10-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| r toblenis during | None | June | 18-5-9 | 1 lbs. N | Fall | Roundup | spot applied |
| FACTORS OF PLAY | | July August | 18-5-9 18-5-9 | 1 lbs. N 1 lbs. N | | | |
| TACTORS OF TEAT | | August | 10-5-5 | 1 105. 1 | | | |
| Date opened for play | not yet opened | | | | | | |
| Date closed for play | | | | | | | |
| Type of spikes allowed | softspikes | | | | | | |
| Uses of green | putting when opened | | | | INSECTICIDES | | |
| MOWING | | | | | Date(s) | Product | Rate (oz./M) |
| Initial height | 3/16" | | | | None | | |
| Current height | 3/16" | | | | | | |
| Frequency | 3 days/week | | | | | | |
| Type of mower | walking | | | | | | |
| Rollers used | None | | | | | | |
| Groomers used | None | | | | | | |
| | | | | | OTHER PRODUCTS | | |
| CULTIVATION | | | | | | | |
| | N | | | | Date(s) | Product | Rate (oz./M) |
| Aerfication - dates | None | FUNGICIDES | | | N | | |
| Aerification - type | N | \mathbf{D} () | D 1 (| | None | | |
| Verticutting | None | Date(s) | Product | Rate (oz./M) | | | |
| Dates of topdressing | monthly through Sept. | Nama | | | | | |
| Other cultural practices | None | None | | | | | |
| | | | | | NOTES/COMMENTS | | |

TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT ST. CHARLES, MO (THE MISSOURI BLUFFS G. C.) 1/ 1998 DATA 3/

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

| | | | PERG | CENT | | | | |
|------------|---------|---------|------------|-------------|------|---------|---------|------|
| | GENETIC | LEAF | ESTABLISHM | ENT RATINGS | QU | ALITY 1 | RATINGS | |
| NAME | COLOR | TEXTURE | SUMMER | FALL | AUG | SEP | OCT | MEAN |
| TIFEAGLE | 6.0 | 6.0 | 46.7 | 91.7 | 4.3 | 5.7 | 3.0 | 4.3 |
| TIFDWARF | 7.0 | 6.0 | 33.3 | 91.7 | 3.7 | 5.3 | 3.7 | 4.2 |
| TIFGREEN | 5.7 | 5.0 | 26.7 | 96.3 | 4.0 | 5.3 | 3.3 | 4.2 |
| CHAMPION | 5.7 | 6.3 | 50.0 | 99.0 | 4.7 | 5.3 | 2.3 | 4.1 |
| MINI-VERDE | 6.0 | 6.7 | 36.7 | 99.0 | 4.7 | 4.7 | 2.3 | 3.9 |
| MS-SUPREME | 6.0 | 6.3 | 33.3 | 98.3 | 4.3 | 4.7 | 2.3 | 3.8 |
| FLORADWARF | 7.0 | 6.0 | 30.0 | 86.7 | 3.0 | 4.3 | 2.0 | 3.1 |
| LSD VALUE | 0.6 | 0.7 | 8.2 | 3.8 | 1.0 | - | 1.0 | 0.9 |
| C.V. (%) | 5.2 | 6.6 | 12.9 | 2.3 | 12.7 | 18.8 | 18.6 | 11.0 |

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.

3/ DUE TO WINTER INJURY, THE TEST WAS DISCONTINUED IN SPRING 1999.

1998 On Site Bermudagrass test with permission from NTEPTABLE 7A.1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|--|-------------------------|--------------------------------|---|-------------------------------|---------------------------|--------------|--------------|
| Planting date Problems during | 08-Jun-98 Extremely | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| riobenis during | hot and dry | 08-Jun-98 July 1998 | Milorganite Scotts 18-9-18 | 1 lb. N 1 lb. N | None | | |
| FACTORS OF PLAY | | August 1998 Sept. 1998 | Scotts 18-9-18 Scotts 18-9-18 Polyon 0-0-50 | 1 lb. N 1 lb. K | INSECTICIDES | | |
| Date opened for play Date closed for play | October 1998 | October 1998 Novermber 1998 | Polyon 0-0-50 Polyon 0-0-50 Polyon 0-0-50 | 1 lb. K 1 lb. K 1 lb. K | Date(s) | Product | Rate (oz./M) |
| Type of spikes allowed Uses of green | softspikes putting | December 1998 | Polyon 0-0-50 | 1 lb. K | August 1998 | Battle GC | |
| MOWING | | | | | OTHER PRODUCTS | | |
| Initial height Current height | 1/2" 1/8" | | | | Date(s) | Product | Rate (oz./M) |
| Frequency | 6 days/week | | | | every two weeks from | Astron | |
| Type of mower | walking | | | | August - December | FG-20 | |
| Rollers used | None | | | | | Knife | |
| Groomers used | AugSept. | | | | | Now 12-0-12 | |
| | | FUNGICIDES | | | | Now 6-12-3 | |
| CULTIVATION | | | | | | Now 4-4-16 | |
| | | Date(s) | Product | Rate (oz./M) | | Phlex-Man | |
| Aerfication - dates | None | | | | | Phlex-Mag | |
| Aerification - type | | None | | | | Rennaissance | |
| Verticutting | Once per month | | | | | | |
| | in Aug. & Sept. | | | | monthly from AugDec. | Perk-Up | |
| Dates of topdressing | Twice per month- | | | | | Maxiplex | |
| | July, August, Sept. | | | | | Prevacle | |
| Other cultural practices | Rolled weekly | | | | | | 511 0.6 |
| | during establishment | | | | monthly from July-Dec. | Pro-Mag 36 | 5 lbs./M |
| | with Hydroject in off | | | | | | |
| | mode to assist leveling | | | | NOTES/COMMENTS | | |
| | | | | | NOTES/COMMENTS | | |
| | | | | | No overseeding this year. | | |
| | | | | | Used covers to protect | | |
| | | | | | three times. Target temp. | | |
| | | | | | was 20 degrees F for | | |

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two hours to be covered.

1998 On Site Bermudagrass test with permission from NTEPTABLE 7B.1999 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | FUNGICIDES | | |
|--|------------------------|-----------------------|---------------------------|--------------------------|----------------|---------|--------------|
| Planting date Problems during | 08-Jun-98 Extremely | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| riobenis during | hot and dry | Granul | ar Fertilizer Application | 15 | None | | |
| FACTORS OF PLAY | | 20-Mar | Par Ex 16-0-24 | 1 lb. N | | | |
| | | 10-May | Par Ex 16-0-24 | 1 lb. N | | | |
| Date opened for play | | 21-Jun | Polyon 0-0-46 | 1 lb. K | HERBICIDES | | |
| Date closed for play | | 28-Jun | Country Club 16-4-8 | 1 lb. N | | | |
| Type of spikes allowed | | 14-Jul | Polyon 0-0-46 | 1 lb. K | Date(s) | Product | Rate (oz./M) |
| Uses of green | | 02-Aug | Scotts 18-9-18 | 0.5 lb. N | | | |
| - | | 20-Sep | Scotts 13-2-26 | 0.5 lb. N | None | | |
| MOWING | | 25-Oct | Polyon 0-0-46 | 1 lb. K | | | |
| | | | Milorganite 6-2-0 | 1 lb. N | | | |
| Initial height | | 01-Dec | Polyon 0-0-32 | 1 lb. K | | | |
| Current height | | | 2 | | INSECTICIDES | | |
| - | | Total - Granular app. | 5.0 lbs. N, 3.6 lbs. | P, 9.2 lbs. K | | | |
| Frequency | | | , | | | | |
| Type of mower | | | | | Date(s) | Product | Rate (oz./M) |
| Rollers used | | | | | | | · · · · |
| Groomers used | | Liquid (Fo | oliar) Fertilizer Applica | tions | None | | |
| | | 1 | / 11 | | | | |
| CULTIVATION | | Every two week | as (March-Sept.) - 14 A | oplications | | | |
| Aerfication - dates Aerification - type | | Each Floratine | app. consisted of | 0.15 lb. N 0.08 lb. P | OTHER PRODUCTS | | |
| Verticutting | | | | 0.15 lb. K | Date(s) | Product | Rate (oz./M) |
| 6 | | | | | | | () |
| Dates of topdressing | | Total - Foliar app. | 2.1 lbs. N, 1.2 lbs. | P, 2.1 lbs. K | None | | |
| Other cultural practices | | | | | | | |
| · · r | | Total Fertilizer app. | 7.1 lbs. N, 4.8 lbs. | P, 11.3 lbs. K | | | |
| | | | | | | | |

NOTES/COMMENTS

1998 On Site Bermudagrass test with permission from NTEPTABLE 7C.2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | FUNGICIDES | | |
|--|---|-----------------------|---------------------------------|---------------------|--|-------------|-----------------|
| Planting date Problems during | 08-Jun-98 Extremely | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| | hot and dry | Granula | r Fertilizer Applic | ations | None | | |
| FACTORS OF PLAY | | March | Par Ex 16-0-2 | 4 1 lb. N | | | |
| | anan arami dari araant | May | Par Ex 16-0-2 | | | | |
| Date opened for play | open every day except | June | Polyon 0-0-40 | | HERBICIDES | | |
| Date closed for play Type of spikes allowed | Monday when club closed Softspikes | June July | Country Club 16 | | Date(s) | Product | Rate (oz./M) |
| Uses of green | Chipping and Putting | August | Polyon 0-0-40 Scotts 18-9-13 | | Date(s) | rioduci | Rate (02./WI) |
| Uses of green | empping and I during | September | Scotts 13-2-20 | | None | | |
| MOWING | | October | Polyon 0-0-46 | | TUNE | | |
| | | October | Milorganite 6-2 | | | | |
| Initial height | | December | Polyon 0-0-32 | | | | |
| Current height | 0.125" | | , | | INSECTICIDES | | |
| Frequency | 6 days/week | Total - Granular app. | 5.0 lbs. N, 3.6 | lbs. P, 9.2 lbs. K | | | |
| Type of mower | Toro 1000 walking unit | | | | Date(s) | Product | Rate (oz./M) |
| Rollers used | Brush attachments used in | | | | | | |
| Groomers used | growing season | Foliar | Fertilizer Applica | tions | sprayed with Battle GC and | for cutworm | is in May, July |
| CULTIVATION | | Every two weeks | s (March-Sept.) - 1 | 4 Applications | | - | |
| Aerfication - dates | May and September | Each Floratine a | app. consisted of | 0.15 lb. N | OTHER PRODUCTS | | |
| Aerification - type | Solid tine | | | 0.08 lb. P | \mathbf{D} () | D 1 (| |
| Verticutting | Spike biweekly May-Sept. | | | 0.15 lb. K | Date(s) | Product | Rate (oz./M) |
| | Verticut biweekly April-Sept. (alternate with verticut program) | Total - Foliar app. | 2.1 lbs. N, 1.2 | lbs. P, 2.1 lbs. K | None | | |
| Dates of topdressing | biweekly (different week from verticut) April-Sept. | Total Fertilizer app. | 7.1 lbs. N, 4.8 | lbs. P, 11.3 lbs. K | NOTES/COMMENTS | | |
| Other cultural practices | Heavy application after solid tine rolling in Winter to smooth surface when not mowing | | | | Not overseeded in Fal predicted to be below | | 1 |

1998 On Site Bermudagrass test with permission from NTEPTABLE 7D.2001 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | FUNGICIDES | | |
|----------------------------------|---------------------------------|-----------------------|--------------------------|----------------|-------------------------|----------------|----------------|
| Planting date Problems during | 08-Jun-98 Extremely | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| | hot and dry | Granula | r Fertilizer Application | IS | Heritage apps in Spr | • • • | ay) and Fall |
| | | | | | (Se | ept/Oct) | |
| FACTORS OF PLAY | | March | Par Ex 16-0-24 | 1 lb. N | | | |
| | | May | Par Ex 16-0-24 | 1 lb. N | | | |
| Date opened for play | open every day except | June | Polyon 0-0-46 | 1 lb. K | HERBICIDES | | |
| Date closed for play | Monday when club closed | June | Country Club 16-4-8 | 1 lb. N | 2 | | |
| Type of spikes allowed | Softspikes | July | Polyon 0-0-46 | 1 lb. K | Date(s) | Product | Rate (oz./M) |
| Uses of green | Chipping and Putting | August | Scotts 18-9-18 | 0.5 lb. N | | | |
| | | September | Scotts 13-2-26 | 0.5 lb. N | None | | |
| MOWING | | October | Polyon 0-0-46 | 1 lb. K | | | |
| | | October | Milorganite 6-2-0 | 1 lb. N | | | |
| Initial height | | December | Polyon 0-0-32 | 1 lb. K | | | |
| Current height | 0.125" | | | | INSECTICIDES | | |
| Frequency | 6 days/week | Total - Granular app. | 5.0 lbs. N, 3.6 lbs. | P, 9.2 lbs. K | | | |
| Type of mower | Toro walker | | | | Date(s) | Product | Rate (oz./M) |
| Rollers used | | | | | | | |
| Groomers used | Solid rollers with brush, daily | Foliar | Fertilizer Applications | | Conserve GC apps 1 v | week prior to | each star tine |
| | in May-Sept, weekly other | | | | cul | tivation | |
| | months when not dormant. | Every two weeks | s (March-Sept.) - 14 Ap | plications | | | |
| CULTIVATION | | Each Floratine a | app. consisted of | 0.15 lb. N | OTHER PRODUCTS | | |
| | | | .pp | 0.08 lb. P | | | |
| Aerfication - dates | June and September | | | 0.15 lb. K | Date(s) | Product | Rate (oz./M) |
| Aerification - type | Star tine | | | 0.10 10.11 | | | () |
| Verticutting | Weekly April-September | Total - Foliar app. | 2.1 lbs. N, 1.2 lbs. | P 21 lbs K | None | | |
| Dates of topdressing | Weekly April-September | Total Tollar app. | 2.1 105. 13, 1.2 105. | 1, 2.1 105. IX | | | |
| | | | | | | | |
| Other cultural practices | | Total Fertilizer app. | 7.1 lbs. N, 4.8 lbs. l | P, 11.3 lbs. K | NOTES/COMMENTS | | |
| | | | | | Green not overseeded an | d covered if t | forecast below |

Green not overseeded and covered if forecast below 20 or to remain below 32 for excess of 24 hours. Covered 1 time in December of 01.

TABLE 7E.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT DALLAS, TX (BENT TREE COUNTRY CLUB) 1/ 1998-2001 DATA

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

| NAME | GENETIC COLOR | SPRING GREENUP | LEAF TEXTURE | DENSITY SPRING | DENSITY SUMMER | DENSITY FALL | WINTER COLOR 1998 | FALL COLOR OCTOBER 1999 | FALL COLOR NOVEMBER 1999,2001 | FALL COLOR DECEMBER 1999 | DORMANCY OCTOBER 1999 | PERC 1 WEEK | ENT ESTABLI 5 WEEKS | SHMENT 8 WEEKS |
|------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------------|----------------------------------|--|-----------------------------------|-----------------------------|----------------|------------------------|-------------------|
| | | | | | | | | | , | | | | | |
| MINI-VERDE | 7.3 | 6.9 | 5.3 | 5.9 | 6.9 | 7.7 | 8.0 | 3.3 | 5.5 | 3.0 | 5.7 | 66.7 | 40.0 | 53.3 |
| TIFEAGLE | 7.0 | 6.6 | 4.8 | 5.8 | 6.4 | 7.7 | 7.7 | 2.3 | 5.2 | 2.3 | 5.0 | 88.3 | 53.3 | 36.7 |
| CHAMPION | 6.9 | 6.2 | 5.0 | 5.6 | 6.2 | 8.0 | 7.7 | 2.3 | 5.5 | 2.3 | 5.3 | 91.7 | 33.3 | 23.3 |
| FLORADWARF | 6.8 | 5.2 | 4.6 | 5.1 | 5.4 | 7.3 | 7.3 | 2.0 | 4.3 | 2.0 | 6.0 | 66.7 | 58.3 | 63.3 |
| MS-SUPREME | 6.3 | 5.8 | 4.6 | 5.0 | 6.2 | 7.7 | 7.0 | 1.3 | 5.0 | 1.7 | 5.7 | 73.3 | 53.3 | 80.0 |
| TIFDWARF | 6.9 | 5.1 | 4.8 | 4.8 | 5.1 | 6.7 | 5.3 | 4.3 | 4.7 | 4.3 | 7.3 | 76.7 | 40.0 | 26.7 |
| TIFGREEN | 5.9 | 4.0 | 5.4 | 4.2 | 4.6 | 6.3 | 3.7 | 3.7 | 5.3 | 3.0 | 7.7 | 85.0 | 70.0 | 80.0 |
| LSD VALUE | 1.3 | 2.1 | 3.9 | 3.4 | 1.2 | 0.6 | 1.0 | 1.7 | 1.8 | 2.1 | 2.4 | 22.0 | 19.4 | 19.2 |
| C.V. (%) | 18.1 | 33.7 | 46.4 | 42.4 | 20.3 | 5.0 | 9.4 | 31.9 | 20.8 | 37.5 | 18.7 | 13.6 | 20.6 | 21.7 |

| TABLE 7E. | MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS |
|-----------|--|
| (CONT'D) | IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST |
| | AT DALLAS, TX (BENT TREE COUNTRY CLUB) 1/ |

1998-2001 DATA

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

| | | | | | | QUALITY | RATINGS | 5 | | | | | |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| NAME | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | MEAN |
| MINI-VERDE | 4.7 | 6.9 | 6.8 | 5.7 | 6.3 | 6.2 | 5.7 | 7.2 | 7.2 | 6.3 | 7.2 | 5.3 | 6.6 |
| TIFEAGLE | 4.6 | 6.3 | 6.7 | 5.1 | 5.7 | 5.7 | 5.3 | 6.6 | 5.9 | 6.4 | 6.9 | 5.2 | 6.2 |
| CHAMPION | 4.1 | 6.1 | 6.1 | 4.9 | 5.9 | 5.7 | 4.9 | 6.2 | 5.4 | 5.8 | 6.4 | 5.0 | 5.8 |
| FLORADWARF | 4.9 | 5.7 | 5.1 | 4.2 | 5.3 | 4.8 | 4.7 | 5.6 | 5.9 | 5.8 | 6.1 | 5.1 | 5.7 |
| MS-SUPREME | 4.6 | 5.6 | 5.4 | 4.4 | 6.2 | 5.4 | 5.2 | 6.1 | 6.1 | 5.3 | 5.9 | 4.8 | 5.7 |
| TIFDWARF | 5.2 | 5.6 | 5.1 | 4.3 | 4.6 | 4.1 | 4.9 | 6.1 | 5.2 | 5.3 | 5.4 | 5.3 | 5.4 |
| TIFGREEN | 4.4 | 4.8 | 4.0 | 4.3 | 4.1 | 3.6 | 5.0 | 5.6 | 4.6 | 4.8 | 4.9 | 4.6 | 4.8 |
| LSD VALUE C.V. (%) | 1.3 21.1 | 1.7 24.8 | 1.8 31.1 | 3.2 43.9 | 2.0 32.0 | 1.6 30.5 | 2.1 26.9 | 1.9 23.7 | 2.2 31.5 | 2.3 33.2 | 0.8 14.7 | 2.3 28.2 | 1.0 20.0 |

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.

1998 On Site Bermudagrass test with permission from NTEPTABLE 8A.1998 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT HOUSTON, TX (LAKESIDE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|----------------------------------|-----------------------|---------------|----------|---------------|---|------------|--------------|
| Planting date Problems during | 16-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| | | 19-Jun-98 | 14-28-10 | 1 lb. N | None | | |
| | | 26-Jun-98 | 16-8-8 | 1 lb. N | | | |
| FACTORS OF PLAY | | 03-Jul-98 | 16-8-8 | 1 lb. N | | | |
| | | 09-Jul-98 | 16-8-8 | 1 lb. N | | | |
| Date opened for play | 01-Sep-99 | 22-Jul-98 | 16-8-8 | 1 lb. N | | | |
| Date closed for play | 1 | 27-Jul-98 | 16-8-8 | 1 lb. N | INSECTICIDES | | |
| Type of spikes allowed | softspikes | 04-Aug-98 | 16-8-8 | 1 lb. N | | | |
| | only | 21-Aug-98 | 16-8-8 | 1 lb. N | Date(s) | Product | Rate (oz./M) |
| Uses of green | | 13-Aug-98 | 16-8-8 | 1 lb. N | | | |
| C | | 31-Aug-98 | 20-0-20 | 1 lb. N | 13-Aug-98 | Dursban 2G | 2 lb./M |
| MOWING | | 21-Sep-98 | 20-0-20 | 1 lb. N | - | | |
| | | 19-Oct-98 | 20-0-20 | 1 lb. N | | | |
| Initial height | 1/4" | 09-Nov-98 | 14-28-10 | 0.75 lb. N | | | |
| Current height | 5/32" | 14-Dec-98 | 14-28-10 | 1 lb. N | | | |
| Frequency | 7 days/week | | | | | | |
| Type of mower | walking | | | | | | |
| Rollers used | None | | | | OTHER PRODUCTS | | |
| Groomers used | None | FUNGICIDES | | | | | |
| | | | | | Date(s) | Product | Rate (oz./M) |
| CULTIVATION | | Date(s) | Product | Rate (oz./M) | | | |
| | | | | | None | | |
| Aerfication - dates | mid-Feb., mid-March | 13-Aug-98 | Captan | 3 | | | |
| Aerification - type | water injection | 31-Aug-98 | Heritage | 4 | | | |
| Verticutting | None | 12-Oct-98 | Heritage | 4 | NOTES/COMMENTS | | |
| Dates of topdressing | dusting every 2 weeks | | | | | | |
| Other cultural practices | None | | | | Overseeded on 10/26/98 with 12 lb./M poa trivialis | | |

1998 On Site Bermudagrass test with permission from NTEPTABLE 8B.1999 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT HOUSTON, TX (LAKESIDE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | |
|----------------------------------|-------------------------|---------------|--------------------------|---------------|-----------------------|----------|--------------|
| Planting date Problems during | 16-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) |
| Trootonio danng | 1,0110 | 04-Jan | Milorganite 6-4-0 | 0.7 lb. N | None | | |
| | | 25-Jan | Andersons 18-6-15 | 0.6 lb. N | | | |
| FACTORS OF PLAY | | 2/2, 3/22 | Agriplex Micro-mix 0-4-4 | 2.0 oz./M | | | |
| | | 3/19, 4/19 | Best 16-8-8 | 1 lb. N | | | |
| Date opened for play | | 5/5, 5/17 | HHI 15-4-7 | 0.5 lb. N | | | |
| Date closed for play | | 11-May | Ferromec 15-0-0 | 5 oz./M | INSECTICIDES | | |
| Type of spikes allowed | softspikes | 01-Jun | Agriplex Micro-mix 0-4-4 | 2.0 oz./M | | | |
| Uses of green | Putting/Chipping | 21-Jun | Best 16-8-8 | 0.75 lb. N | Date(s) | Product | Rate (oz./M) |
| e beb er Breen | r www.g cmppmg | 23-Jun | Agriplex Micro-mix 0-4-4 | 2.0 oz./M | 2 400(0) | 1104400 | (02) |
| | | 7/19, 8/2 | Anderson 22-0-22 | 0.5 lb. N | 22-Feb | Scimitar | 7 |
| MOWING | | 20-Sep | HHI 15-4-7 | 0.75 lb. N | | | , |
| | | 11-Oct | Agriplex Micro-mix 0-4-4 | 2.0 oz./M | | | |
| Initial height | 3/16" | 22-Nov | Andersons 10-20-20 | 0.5 lb. N | | | |
| Current height | 9/64" | 29-Nov | Agriplex Micro-mix 0-4-4 | 2.0 oz./M | | | |
| Frequency | 7 days/week | 06-Dec | Andersons 10-20-20 | 0.75 lb. N | | | |
| Type of mower | walking | 21-Dec | Milorganite 6-4-0 | 0.5 lb. N | | | |
| Rollers used | Toro Triplex - weekly | 27-Dec | Andersons 10-20-20 | 0.75 lb. N | OTHER PRODUCTS | | |
| Groomers used | None | | | 0.,010.11 | | | |
| | | FUNGICIDES | | | Date(s) | Product | Rate (oz./M) |
| CULTIVATION | | 1011010101010 | | | (2) | | |
| | | Date(s) | Product | Rate (oz./M) | None | | |
| Aerfication - dates | April 5 - solid 1/4" | (3) | | | | | |
| | Sept.7 - 1/2" hollow | 22-Feb | Daconil | 5 | | | |
| | 1 | 22-Mar | Daconil | 5 | NOTES/COMMENTS | | |
| Aerification - type | Water injection monthly | 11-May | Subdue | 1 | | | |
| 51 | May-Sept. | | Fore | 6 | Overseeded on | | |
| | | 01-Jun | Heritage | 0.4 | 10/25/99 with 12 lb. | | |
| Verticutting | None | 28-Jun | Fore | 6 | and on $11/25$ with 2 | | |
| Dates of topdressing | Dusting weekly | 06-Aug | Prostar | 6 | lbs of Sabre II poa | | |
| Other cultural practices | Brush green monthly | 11-Oct | Subdue Maxx | 1 | trivialis per 1000 | | |
| 1 | Ç , | 29-Nov | Fore | 6 | sq.ft. | | |
| | | | | | 54.10 | | |

1998 On Site Bermudagrass test with permission from NTEPTABLE 8C.2000 MANAGEMENT - ON-SITE BERMUDAGRASS TEST AT HOUSTON, TX (LAKESIDE COUNTRY CLUB)

| ESTABLISHMENT | | FERTILIZATION | | | HERBICIDES | | | | |
|----------------------------------|------------------------------|------------------------------|------------------------|--------------------|-----------------------------|---------------|--------------|--|--|
| Planting date Problems during | 16-Jun-98 None | Date(s) | Product | Rate (lbs./M) | Date(s) | Product | Rate (oz./M) | | |
| C | | 31-Jan | Houactonite | 0.5 lb. N | 05-Jun | Illoxan | 1 | | |
| | | 2/14, 2/28, 3/27,5/15 | Andersons 18-6-15 | 0.5 lb. N | | | | | |
| FACTORS OF PLAY | | 24-Apr | Andersons 22-0-22 | 1.5 lb. N | | | | | |
| | , | 30-May | Andersons 18-6-15 | 0.75 lb. N | | | | | |
| Date opened for play | open year round | 6/5, 8/7 | Andersons 10-20-20 | 1.0 lb. N | | | | | |
| Date closed for play | Metal spikes are banned | 12-Jun | HHI 15-4-6 | 1.0 lb. N | INSECTICIDES | | | | |
| Type of spikes allowed | Putting/Chipping/bunker | 05-Jul | Andersons 18-4-6 | 1.0 lb. N | | | | | |
| Uses of green | | 7/31, 9/11 | Andersons 10-20-20 | 0.75 lb. N | Date(s) | Product | Rate (oz./M) | | |
| | play, etc. | 10/30, 11/20, 12/4 08-Dec | Andersons 10-20-20 | 0.5 lb. N 8 lbs | 1/24 4/17 | Dursban | 2.0 lbs./A | | |
| MOWING | | 08-Dec | Gypsum | 8 IDS | 1/24, 4/17 15-Jun | Dursban | 2.0 IDS./A | | |
| MOWING | | | | | 10/5, 10/30 | Dursban | 1 | | |
| Initial height | 0.156" | | | | 10/3, 10/30 | Duisball | 1 | | |
| Current height | 0.125" | FUNGICIDES | | | | | | | |
| Frequency | 7 days/week | TUNGICIDED | | | | | | | |
| Type of mower | Toro walking greens mower | Date(s) | Product | Rate (oz./M) | | | | | |
| Rollers used | used weekly in Summer | 2 400(0) | 1100000 | (02) | OTHER PRODUCTS | | | | |
| Groomers used | used biweekly in Summer | 1/24, 3/13 | Subdue Maxx | 1 | | | | | |
| | 2 | 1/24, 3/13 | Daconil | 2.5 | Date(s) | Product | Rate (oz./M) | | |
| CULTIVATION | | 03-May | Fore | 4.9 | | | . , | | |
| | | 5/18, 6/5 | Prostar | 4.5 | 1/10, 3/13 | Invigorate | 2 | | |
| Aerfication - dates | 2/22 - Hydroject | 5/23, 11/3, 11/17 | Fore | 6 | 1/10, 1/24, 4/17, 5/3, 5/23 | Ferromec | 5 | | |
| Aerification - type | 4/10, 9/5 - 3/8" Hollow tine | 05-Oct | Subdue | 1 | 1/10, 1/24, 3/13 | Thoroughbred | 0.4 | | |
| | 7/12 - 1" Drill & Fill | 11/3, 11/17/2000 | Heritage | 0.4 | 3/13, 6/5 | SeaQuential | 2 | | |
| Verticutting | 5/22, 5/30, 6/12, 6/20, 7/3, | | | | 17-Apr | Primo | 0.05 | | |
| | 7/17, 8/7, 8/21, 9/21 | | | | 03-May | Green Lawnger | 7 | | |
| Dates of topdressing | Very heavy:4/10, 7/12, 9/5; | | | | | | | | |
| | Dusting-heavy: 10/16; | | NOTES/COMMENTS | | | | | | |
| | Moderate: 1/10, 1/17, 1/24, | | | | | | | | |
| | 1/31., 2/7, 2/28, 3/20, | | Overseeded on 10/16/00 | | | | | | |
| | 3/27,6/7, 7/17; Light:1/3, | | Poa Trivialis per | 1000 sq.ft. | | | | | |
| | 2/14, 5/8, 5/15, 6/5, 7/31, | | | | | | | | |
| | 8/21, 11/6, 12/4 | | | | | | | | |
| Other cultural practices | Brush green monthly | | | | | | | | |

1998 On Site Bermudagrass test with permission from NTEP

TABLE 8D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT HOUSTON, TX (LAKESIDE COUNTRY CLUB) 1/ 1998-2001 DATA

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

| | | | | | PERCENT LI | VING COVER | STIMPMETER READINGS | | |
|------------|---------|---------|---------|----------|------------|------------|---------------------|---------|---------|
| | GENETIC | SPRING | LEAF | SEEDLING | SPRING | SUMMER | SPRING | SUMMER | FALL |
| NAME | COLOR | GREENUP | TEXTURE | VIGOR | 2001 | 2001 | 1999-00 | 1999-01 | 1999-00 |
| MINT-VERDE | 5.7 | 5.3 | 6.3 | 7.7 | 76.7 | 91.7 | 112.0 | 106.2 | 117.0 |
| CHAMPION | 5.0 | 3.7 | 6.3 | 6.0 | 81.7 | 91.7 | 107.7 | 108.9 | 109.0 |
| MS-SUPREME | 5.3 | 4.3 | 6.3 | 7.3 | 81.7 | 86.7 | 107.3 | 106.7 | 108.5 |
| FLORADWARF | 5.3 | 4.0 | 6.3 | 6.3 | 73.3 | 91.7 | 104.3 | 105.7 | 106.0 |
| TIFEAGLE | 4.9 | 4.0 | 6.7 | 6.3 | 56.7 | 73.3 | 101.7 | 107.6 | 105.5 |
| TIFDWARF | 5.1 | 5.7 | 5.0 | 7.0 | 41.7 | 78.3 | 118.7 | 116.1 | 122.8 |
| TIFGREEN | 2.5 | 3.0 | 1.7 | 7.3 | 58.3 | 61.7 | 106.2 | 106.0 | 106.3 |
| LSD VALUE | 1.2 | 3.6 | 0.8 | 0.8 | 23.3 | 13.3 | 9.9 | 13.9 | 8.5 |
| C.V. (%) | 31.2 | 35.3 | 8.7 | 6.6 | 18.3 | 9.1 | 7.0 | 9.4 | 6.5 |

TABLE 8D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS (CONT'D) IN THE 1998 USGA/GCSAA/NTEP ON-SITE BERMUDAGRASS TEST AT HOUSTON, TX (LAKESIDE COUNTRY CLUB) 1/ 1998-2001 DATA

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

| | QUALITY RATINGS | | | | | | | | | | | | |
|-----------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|
| NAME | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | MEAN |
| MINI-VERDE | 5.7 | 6.8 | 6.2 | 5.3 | 5.9 | 6.4 | 6.2 | 6.1 | 5.9 | 5.5 | 5.1 | 5.0 | 5.8 |
| CHAMPION | 5.4 | 6.0 | 6.1 | 5.4 | 5.8 | 6.0 | 5.9 | 5.8 | 5.8 | 5.4 | 4.6 | 4.5 | 5.5 |
| MS-SUPREME | 5.7 | 6.3 | 6.8 | 5.6 | 5.9 | 6.0 | 5.8 | 5.3 | 5.5 | 5.1 | 4.6 | 4.5 | 5.4 |
| FLORADWARF | 5.6 | 6.1 | 5.4 | 4.7 | 4.9 | 6.0 | 5.4 | 4.8 | 5.2 | 5.1 | 4.3 | 4.5 | 5.1 |
| TIFEAGLE | 5.8 | 6.1 | 5.6 | 4.6 | 4.6 | 5.3 | 5.8 | 5.3 | 5.3 | 5.3 | 4.2 | 4.5 | 5.1 |
| TIFDWARF | 5.6 | 6.2 | 5.8 | 4.3 | 4.8 | 5.1 | 5.2 | 4.4 | 4.6 | 4.8 | 4.2 | 4.8 | 4.7 |
| TIFGREEN | 4.6 | 4.7 | 4.1 | 3.4 | 3.9 | 2.2 | 2.1 | 1.7 | 2.1 | 1.6 | 2.4 | 3.7 | 2.6 |
| LSD VALUE C.V. (%) | 1.7 21.9 | 1.0 16.4 | 1.1 19.6 | 1.3 27.0 | 1.6 29.1 | 1.0 22.0 | 0.7 15.8 | 0.9 25.4 | 0.9 23.5 | 0.6 17.1 | 0.5 13.6 | 0.5 9.0 | 0.6 16.5 |

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.