

NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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ON-SITE TESTING OF GRASSES FOR OVERSEEDING OF BERMUDAGRASS FAIRWAYS

INTRODUCTION

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

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

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

Location and Number of Trial Sites

This evaluation trial is jointly sponsored by the United States Golf Association (USGA) Green Section and the National Turfgrass Evaluation Program (NTEP). Trial sites are located on golf courses near a land grant university with a turfgrass research program or in a major metropolitan area which is readily accessible to a university turfgrass scientist. Ten evaluation trial sites have been established. Trials are located on active play sites where golfers hit fairway golf shots and/or drive golf carts. Host clubs provide daily maintenance of the fairway site.

Trial Specifics

The NTEP functions as the coordinating agent for the cultivar trials. These trials are two years in duration, established in fall 2016 and again in fall 2017. 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 USGA and NTEP and each research cooperator (i.e. university turfgrass researcher). Trials are conducted at each location under the leadership of the assigned research cooperator. These persons are responsible for establishing and conducting the trial, and collecting and transferring the data to NTEP according to the research agreement.

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

ON-SITE TESTING (continued)

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

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

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

Administration

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

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

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

A Guide to NTEP Turfgrass Ratings

Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors cannot be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

2016 USGA/NTEP On-Site Fairway Overseeding Trial

Entry No.	Name	Species or Composition	Sponsor
1	Landmark Winterseed 3 Blend	33% Majesty, 33% Salinas, 33% Gallop PR blend	Landmark Turf & Native Seed
2	Landmark Winterseed 5 Blend	20% Majesty, 20% Salinas, 20% Benchmark, 20% Sox Fan, 20% Gallop PR	Landmark Turf & Native Seed
3	Brightstar SLT	100% Brightstar SLT perennial ryegrass	Standard
4	Natural Knit	35% Mensa , 35% Savant , 30% Saguaro PR blend	Ledeboer Seed LLC
5	SPR Spreading Ryegrass Overseeding Mix	50% Saguaro PR, 50% High Life perennial ryegrass blend	Ledeboer Seed LLC
6	LBP-PT-601	100% LBP-PT-601 <i>poa trivialis</i>	Ledeboer Seed LLC
7	Sabre III	100% Sabre III <i>poa trivialis</i>	Standard
8	Breakout	100% Breakout annual ryegrass	Mountain View Seeds
9	Stellar 3GL	100% Stellar 3GL perennial ryegrass	Mountain View Seeds
10	PPG-PR-308	100% PPG-PR-308 perennial ryegrass	Mountain View Seeds
11	CS-PRX	50% Premium, 50% Prominent perennial ryegrass blend	Columbia Seeds
12	LTP-3-PR Blend	33% Seabiscuit, 33% Man O'War, 33.4% Pharoah PR blend	Lebanon Seaboard Corp
13	Prosport 4	100% ProSport 4 perennial ryegrass	SiteOne Landscape Supply
14	Commander ST	100% Commander ST perennial ryegrass	SiteOne Landscape Supply
15	LCP-186	100% LCP 186 perennial ryegrass	SiteOne Landscape Supply
16	Allsport 5	100% Allsport 5 perennial ryegrass	SiteOne Landscape Supply
17	Line Drive II	100% Line Drive II perennial ryegrass	Proseeds Marketing
18	Ringles	100% Ringles perennial ryegrass	Semillas Fito, S.A.
19	Sun	100% Sun perennial ryegrass	Semillas Fito, S.A.
20	Champion GQ	33.3% SR4650, 33.3% SR4650ST, 33.4% Sideways PR blend	Seed Research of Oregon
21	Futura 2500	30% Transit 2600 IR, 23.3% Karma, 23.3% Wicked, 23.4% Fiesta 4 PR	Pickseed
22	Futura 3000	33.4% Karma, 33.3% Wicked, 33.3% Fiesta 4 PR blend	Pickseed
23	IRFL-2-11	100% IRFL-2-11 Intermediate ryegrass	Seed Research of Oregon
24	Ph.D.	33.3% Thrive, 33.3% Aspire, 33.3% Banfield PR blend	DLF Pickseed
25	Transist 2600	100% Transist 2600 Intermediate ryegrass	Standard

TABLE 1A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT TUCSON, AZ (TUCSON COUNTRY CLUB)

Management information not available for this time.

TABLE 2A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT PENSACOLA, FL (LOST KEY GOLF CLUB)

SEEDBED PREPARATION		FERTILIZATION		
		Date(s)	Product	Rate (lbs./M)
		3/14/2017	11-9-28	2.3
MOWING				
Initial height	0.5'	15-May-17	7-2-20	7.87
mowing height during test	0.5" from November thru March, 0.375" April and May			
Frequency	once a week			
Type of mower	LF 570 Jacobsen Fairway Mower			
CULTIVATION		FUNGICIDES		
Aerification - dates	May 8-11			
Aerification - type	3/4" hollow tines @ 2inch spacing	Date(s)	Product	Rate (oz./M)
Verticutting	1/8" depth on May 10th			
Dates of topdressing	NA			
Other cultural practices	NA			
		HERBICIDES		
MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION		Date(s)	Product	Rate (oz./M)
		19-May-17	Echelon	0.55
OTHER INFORMATION		INSECTICIDES		
Course closed for overseeding	NA			
Landing area	NA			
Divoting problem	NA	Date(s)	Product	Rate (oz./M)
Cart allowed on Test area	driving range picker cart			
Traffic patterns				
		OTHER PRODUCTS		
NOTES/COMMENTS		Date(s)	Product	Rate (oz./M)

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TABLE 3A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT JEKYLL ISLAND, GA (JEKYLL ISLAND GOLF CLUB)

Management information not available for this time.

TABLE 4A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT MISSISSIPPI STATE, MS (MISS. ST. UNIVERSITY G. C.)

SEEDBED PREPARATION		FERTILIZATION		
	vertical mow @ .125" in two directions	Date(s)	Product	Rate (lbs./M)
MOWING				
Initial height	3/4"	10/1/2016	13-13-13	1#N/M, .43#P/M, .83#K/M
mowing height during test	1/2"	11/8/2016	46-0-0,13-0-46	.25#N&K/M
Frequency		2/14/2017	46-0-0,13-0-46	.25#N&K/M
Type of mower	JD 7500	3/30/2017	46-0-0,13-0-46	.25#N&K/M
		16-May-17	Uflex (46-0-0)	.75#N/m
CULTIVATION		8/8/2017	40-0-0 (NITROFORM) 0-0-60	1#N, .5#K
		FUNGICIDES		
Aerification - dates		Date(s)	Product	Rate (oz./M)
Aerification - type				
Verticutting	7/18/2017			
Dates of topdressing				
Other cultural practices				
		HERBICIDES		
MAINTENANCE PRACTICES TO ENHANCE SPRING		Date(s)	Product	Rate (oz./M)
OTHER INFORMATION				
Course closed for overseeding	no	INSECTICIDES		
Landing area		Date(s)	Product	Rate (oz./M)
Divoting problem				
Cart allowed on Test area	yes			
Traffic patterns				
		OTHER PRODUCTS		
NOTES/COMMENTS		Date(s)	Product	Rate (oz./M)

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TABLE 5A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT RALEIGH, NC (LONNIE POOLE GOLF COURSE)

SEEDBED PREPARATION		Seeding date of 10/11/16	FERTILIZATION		
Scalp down bermuda grass to .350" 1 day ahead of seeding, blow off debris			Date(s)	Product	Rate (lbs./M)
			10/24/2016	18-24-12	11b. N/1000sq.ft.
MOWING					
Initial height		0.6"	23-Nov-16	18-24-12	11b. N/1000sq.ft.
mowing height during test		0.5"	1/13/2017	26-13-13	1.5lb. N/1000sq.ft.
Frequency		2 times per week	2-May	26-13-13	1.5lb. N/1000sq.ft.
Type of mower		John Deere 7500			
CULTIVATION					
Aerification - dates		None	FUNGICIDES		
Aerification - type		None	Date(s)	Product	Rate (oz./M)
Verticutting		None	none		
Dates of topdressing		None			
Other cultural practices		None			
HERBICIDES					
MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION			Date(s)	Product	Rate (oz./M)
lower mowing height to .4" in April			21-Feb-17	Pendulum Aquacap	3.1 pts./acre
			21-Apr	Pendulum Aquacap	3.1 pts./acre
			6/27/2017	Kerb	3.5 pts./acre
INSECTICIDES					
Course closed for overseeding	Trial area closed to play for 1.5 weeks while seed is established		Date(s)	Product	Rate (oz./M)
Landing area	landing area for par 5				
Divoting problem	no divoting problem because of 200 plus yards out				
Cart allowed on Test area	once seed was established, carts were allowed out on area		none		
Traffic patterns	no problem				
OTHER PRODUCTS					
NOTES/COMMENTS			Date(s)	Product	Rate (oz./M)
			none		

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TABLE 6A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT LAS CRUCES, NM (NEW MEXICO STATE UNIVERSITY G.C.)

SEEDBED PREPARATION		FERTILIZATION		
	4x vercutting	Date(s)	Product	Rate (lbs./M)
MOWING		10/19/2016	Calcium Nitrate	0.75
		11/2/2016	Calcium Nitrate	0.75
		11/14/2016	27-0-14 (slow release blend)	4
Initial height	500			
mowing height during test	500			
Frequency	3x			
Type of mower	Toro Reel master 5510			
CULTIVATION		FUNGICIDES		
Aerification - dates	May	Date(s)	Product	Rate (oz./M)
Aerification - type	coreing, 5/8 hole	none		
Verticutting	4x before seeding			
Dates of topdressing	none			
Other cultural practices				
MAINTENANCE PRACTICES TO ENHANCE SPRING TRANSITION		HERBICIDES		
		Date(s)	Product	Rate (oz./M)
		05/15/17,06/15/17	Katana	0.068
OTHER INFORMATION		INSECTICIDES		
Course closed for overseeding	area roped off	Date(s)	Product	Rate (oz./M)
Landing area	no need the area was located at the beginning of fairway	05/20/17,08/15/17	Merdian	0.39
Divoting problem	no need the area was located at the beginning of fairway			
Cart allowed on Test area	afrter seed was at 3 leal stage			
Traffic patterns	none			
NOTES/COMMENTS		OTHER PRODUCTS		
		Date(s)	Product	Rate (oz./M)

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TABLE 3A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT JEKYLL ISLAND, GA (JEKYLL ISLAND GOLF CLUB)

Management information not available for this time.

TABLE 3A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT JEKYLL ISLAND, GA (JEKYLL ISLAND GOLF CLUB)

Management information not available for this time.

TABLE 3A. 2016-17 MANAGEMENT - ON-SITE OVERSEEDING OF BERMUDAGRASS TEST AT JEKYLL ISLAND, GA (JEKYLL ISLAND GOLF CLUB)

Management information not available for this time.

TABLE 1B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT TUCSON, AZ (TUCSON COUNTRY CLUB) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL				PERCENT COVER LIVING GRASSES IN WINTER		PERCENT COVER OF LIVING GRASSES IN SPRING					
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	10/24	10/24	11/14	11/14	12/5	12/5	5/15	5/15	6/5	6/5	6/26	6/26
CHAMPION GQ	8.3	89.7	19.0	81.0	5.7	94.3	5.0	95.0	46.7	53.3	61.7	37.7
NATURAL KNIT	11.7	87.3	13.0	87.0	3.3	96.7	6.7	93.3	30.7	69.3	38.3	58.0
LANDMARK WINTERSEED 5 BLEND	16.7	81.7	18.3	81.7	5.7	94.3	13.3	86.7	41.7	58.3	60.0	37.3
LCP-186	11.7	87.0	15.0	85.0	5.3	94.7	9.3	90.7	38.3	61.7	48.3	38.0
COMMANDER ST	19.0	80.3	9.0	91.0	0.3	99.0	23.3	76.7	58.3	41.7	65.0	30.7
FUTURA 3000	10.0	87.3	11.7	88.3	7.7	92.3	5.0	95.0	50.0	50.0	51.7	44.7
LTP-3-PR BLEND	15.0	80.3	8.3	91.7	6.0	94.0	18.3	81.7	41.7	58.3	55.0	40.7
RINGLES	11.0	83.3	13.3	86.7	9.3	90.7	11.0	89.0	48.3	51.7	40.0	53.3
STELLAR 3GL	16.7	82.3	11.7	88.0	5.0	95.0	8.3	91.7	43.3	56.7	58.3	38.7
BRIGHTSTAR SLT	25.0	73.3	23.3	76.7	6.7	93.3	9.3	90.7	40.0	60.0	48.3	43.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	13.3	83.7	13.3	86.7	8.3	91.7	15.0	85.0	35.7	64.3	46.7	48.0
CS-PRX	10.0	86.3	13.3	86.7	6.0	94.0	23.3	76.7	40.0	60.0	51.7	38.3
PPG-PR-308	13.3	84.3	9.0	91.0	9.0	91.0	23.3	76.7	45.0	55.0	68.3	30.3
SUN	8.3	89.0	16.7	83.3	6.7	93.3	21.7	78.3	43.3	56.7	58.3	40.0
LINE DRIVE II	20.0	78.3	12.3	87.7	4.3	95.3	13.3	86.7	40.0	60.0	43.3	46.3
PH.D.	26.7	69.3	14.0	86.0	11.0	89.0	11.0	89.0	41.7	58.3	51.7	46.0
IRFL-2-11	31.7	65.7	31.7	68.3	4.0	96.0	20.0	80.0	60.0	40.0	70.0	23.0
LANDMARK WINTERSEED 3 BLEND	13.3	84.0	21.7	78.3	6.3	93.7	16.7	83.3	41.7	58.3	61.7	36.0
PROSPORT 4	21.7	76.0	21.7	78.3	7.3	92.7	26.7	73.3	56.7	43.3	56.7	35.0
ALLSPORT 5	11.7	86.0	15.0	85.0	7.7	92.3	20.0	80.0	50.0	50.0	45.0	36.7
BREAKOUT	28.3	70.3	23.3	76.7	2.7	97.0	55.0	45.0	73.3	26.7	76.7	15.3
FUTURA 2500	15.0	81.0	30.0	70.0	6.7	93.3	16.7	83.3	60.0	40.0	53.3	42.0
TRANSIST 2600	23.3	75.0	40.0	60.0	6.3	93.7	35.0	65.0	61.7	38.3	75.0	20.3
SABRE III	58.3	36.3	76.7	23.3	33.3	66.7	13.3	86.7	21.7	78.3	33.3	58.7
LBP-PT-601	60.0	35.0	92.7	7.3	93.3	6.7	40.0	60.0	55.0	45.0	60.0	34.0
LSD VALUE	23.1	23.9	17.2	17.2	7.4	7.4	13.5	13.5	27.2	27.2	38.5	36.7
C.V. (%)	64.6	17.3	48.7	14.5	47.2	5.6	44.5	10.2	28.1	24.5	28.1	37.5

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

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

TABLE 1B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT TUCSON, AZ (TUCSON COUNTRY CLUB) 1/
2016-17 DATA

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

NAME	PLOT	LEAF	GENETIC	SPRING	LEAF
	COLOR	TEXTURE			COLOR	TEXTURE
	WINTER	WINTER		DENSITY	SPRING
CHAMPION GQ	6.7	6.0	7.0	8.3	7.7
NATURAL KNIT	7.3	7.3	7.3	7.7	7.0
LANDMARK WINTERSEED 5 BLEND	7.0	7.0	7.7	7.7	7.0
LCP-186	7.0	6.3	6.7	7.7	6.3
COMMANDER ST	6.0	6.3	5.3	7.7	6.7
FUTURA 3000	7.0	7.0	6.3	7.0	6.7
LTP-3-PR BLEND	6.7	6.3	7.7	7.0	7.0
RINGLES	7.7	7.0	7.3	8.0	7.0
STELLAR 3GL	5.3	7.0	6.7	8.0	7.3
BRIGHTSTAR SLT	6.7	6.0	7.0	7.7	6.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.0	7.0	7.3	7.3	6.7
CS-PRX	7.3	7.0	7.3	5.7	6.7
PPG-PR-308	6.3	6.3	8.0	6.3	6.3
SUN	6.0	6.0	6.3	6.3	6.7
LINE DRIVE II	6.3	6.3	6.0	7.7	7.7
PH.D.	6.3	6.7	7.3	7.3	7.7
IRFL-2-11	5.7	6.0	5.7	7.0	6.3
LANDMARK WINTERSEED 3 BLEND	6.0	7.3	7.0	6.7	7.0
PROSPORT 4	5.3	6.7	6.0	7.3	6.7
ALLSPORT 5	6.0	6.0	6.7	7.3	6.3
BREAKOUT	4.0	5.7	4.3	6.3	4.3
FUTURA 2500	5.3	4.3	5.0	6.3	5.0
TRANSIST 2600	4.3	4.0	4.3	6.0	4.7
SABRE III	4.0	5.3	4.7	8.7	6.0
LBP-PT-601	1.7	2.7	5.0	3.7	3.3
LSD VALUE	1.3	1.2	1.6	1.9	2.2
C.V. (%)	14.2	12.5	14.8	14.7	17.7

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

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

TABLE 1B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT TUCSON, AZ (TUCSON COUNTRY CLUB) 1/
2016-17 DATA

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

NAME	FALL QUALITY		WINTER QUALITY RATINGS			QUALITY RATINGS IN		SPRING/SUMMER		TRANSITION PERIOD		QUALITY MEAN
	10/24 2016	11/14 2016	12/5 2016	1/16 2017	2/13 2017	3/27	4/13	5/15	5/20	6/5	6/26	
CHAMPION GQ	7.7	7.3	6.3	7.0	7.0	8.3	8.3	7.3	8.0	7.7	8.0	7.5
NATURAL KNIT	7.0	7.0	6.7	7.7	8.0	8.0	7.7	8.3	7.0	7.3	6.3	7.4
LANDMARK WINTERSEED 5 BLEND	6.7	6.7	6.0	7.3	6.7	7.0	6.7	8.0	7.0	6.7	6.0	6.8
LCP-186	6.7	6.3	6.3	6.7	7.3	8.3	7.3	6.3	7.0	6.3	5.7	6.8
COMMANDER ST	6.0	7.3	8.0	6.3	6.3	7.3	7.7	6.0	7.0	6.3	5.3	6.7
FUTURA 3000	6.0	6.0	5.3	6.3	6.0	7.3	7.7	8.0	7.3	7.0	6.3	6.7
LTP-3-PR BLEND	6.7	6.7	5.7	5.7	6.3	6.7	7.7	7.3	7.3	7.3	6.7	6.7
RINGLES	6.7	6.7	5.7	7.7	7.7	7.0	6.3	7.0	6.7	6.3	6.3	6.7
STELLAR 3GL	6.7	6.7	6.0	5.3	6.0	7.3	7.3	7.0	7.0	7.3	7.0	6.7
BRIGHTSTAR SLT	7.0	6.0	5.3	6.0	6.3	7.7	7.7	6.3	7.0	6.3	6.3	6.5
SPR SPREADING RYEGRASS OVERSEEDING MIX	6.3	6.3	5.7	6.0	6.7	7.3	6.3	6.7	6.7	7.3	5.7	6.5
CS-PRX	7.0	6.0	5.7	6.7	7.0	7.3	7.0	6.0	6.7	6.7	4.7	6.4
PPG-PR-308	7.0	7.0	6.0	5.0	5.3	7.0	7.0	6.0	7.3	6.3	6.7	6.4
SUN	5.7	6.0	5.3	6.0	5.7	7.0	7.3	7.3	7.0	6.7	6.3	6.4
LINE DRIVE II	5.7	7.0	5.7	6.3	6.0	7.3	6.3	7.3	6.0	6.0	5.3	6.3
PH.D.	6.7	6.0	4.7	6.3	5.7	6.3	6.7	7.0	6.7	6.7	7.0	6.3
IRFL-2-11	5.7	5.3	5.7	7.7	6.3	7.0	6.3	6.0	6.3	5.7	5.0	6.1
LANDMARK WINTERSEED 3 BLEND	6.0	6.3	5.3	6.7	5.7	7.0	7.3	5.0	7.3	5.7	5.0	6.1
PROSPORT 4	5.3	6.3	5.0	5.3	5.7	6.7	7.3	6.3	6.7	6.3	5.0	6.0
ALLSPORT 5	6.0	6.0	5.3	5.7	6.3	6.3	6.7	6.0	6.7	5.3	4.7	5.9
BREAKOUT	4.7	4.7	6.3	6.7	5.7	5.3	5.7	6.0	6.0	4.7	6.3	5.6
FUTURA 2500	4.7	5.3	5.0	5.3	5.7	5.0	4.3	7.0	5.0	6.7	6.7	5.5
TRANSIST 2600	4.7	4.0	5.7	6.0	5.7	5.7	5.3	6.3	5.7	5.7	5.3	5.5
SABRE III	4.7	3.7	3.3	4.0	4.7	7.3	6.3	5.3	6.3	5.7	3.7	5.0
LBP-PT-601	4.0	3.0	2.0	1.0	2.0	3.0	4.3	4.3	4.3	4.7	5.0	3.4
LSD VALUE	1.4	1.5	2.7	2.0	1.7	1.5	2.4	2.8	3.6	2.0	2.4	0.8
C.V. (%)	13.7	14.7	23.3	19.6	16.3	12.9	17.4	18.5	18.8	15.0	19.7	7.8

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

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

TABLE 2B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT PENSACOLA, FL (LOST KEY GOLF CLUB) 1/
2016-17 DATA

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

PERCENT COVER OF LIVING GRASSES IN FALL/WINTER TRANSITION PERIOD 2016/2017

NAME	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
	11/16	11/16	12/1	12/1	12/20	12/20	1/11	1/11	1/26	1/26	2/16	2/16
LTP-3-PR BLEND	99	89.7	99.0	99.0	75.0	99.0	33.3	99.0	30.0	99.0	46.7	99.0
RINGLES	99	90.0	96.0	93.0	75.0	99.0	40.0	99.0	36.7	99.0	46.7	99.0
BRIGHTSTAR SLT	99	92.7	96.0	99.0	75.0	96.0	33.3	99.0	33.3	93.0	46.7	86.3
FUTURA 3000	99	73.3	96.0	96.0	66.7	99.0	43.3	99.0	36.7	92.7	50.0	93.0
NATURAL KNIT	99	89.7	96.0	96.0	75.0	96.0	43.3	96.0	40.0	92.7	46.7	96.0
PPG-PR-308	99	83.3	96.0	99.0	66.7	99.0	40.0	99.0	36.7	93.0	50.0	96.0
SUN	99	83.3	96.0	96.0	66.7	96.0	40.0	96.0	33.3	89.3	56.7	92.7
CHAMPION GQ	99	73.3	96.0	96.0	75.0	93.0	43.3	96.0	36.7	92.7	60.0	86.3
LANDMARK WINTERSEED 3 BLEND	99	76.7	93.0	96.0	70.0	96.0	33.3	92.7	33.3	86.3	53.3	86.3
LCP-186	99	83.3	96.0	99.0	70.0	96.0	30.0	96.0	30.0	92.7	50.0	92.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	99	83.0	99.0	96.0	66.7	96.0	40.0	93.0	40.0	89.7	53.3	86.3
ALLSPORT 5	99	80.0	89.7	96.0	61.7	99.0	36.7	93.0	33.3	93.0	50.0	93.0
COMMANDER ST	99	83.3	93.0	99.0	66.7	96.0	33.3	99.0	33.3	93.0	53.3	89.7
STELLAR 3GL	99	80.0	96.0	99.0	76.7	96.0	36.7	96.0	33.3	96.0	53.3	86.3
LANDMARK WINTERSEED 5 BLEND	99	86.3	99.0	99.0	66.7	96.0	43.3	99.0	36.7	89.7	50.0	89.7
LINE DRIVE II	99	86.3	90.0	93.0	66.7	99.0	36.7	93.0	36.7	93.0	56.7	89.7
PH.D.	99	76.7	93.0	96.0	75.0	99.0	40.0	99.0	36.7	96.0	53.3	96.0
PROSPORT 4	99	83.3	89.7	96.0	61.7	96.0	40.0	92.7	33.3	96.0	53.3	92.7
FUTURA 2500	99	83.3	89.7	96.0	58.3	96.0	43.3	96.0	40.0	83.0	56.7	93.0
IRFL-2-11	99	86.7	96.0	99.0	75.0	99.0	30.0	99.0	30.0	99.0	60.0	96.0
SABRE III	99	80.0	99.0	89.7	76.7	88.0	50.0	93.0	40.0	96.0	60.0	93.0
TRANSIST 2600	99	89.3	93.0	99.0	75.0	99.0	33.3	99.0	33.3	96.0	56.7	89.3
CS-PRX	99	66.7	89.7	96.0	66.7	96.0	36.7	96.0	36.7	86.3	60.0	89.7
BREAKOUT	99	86.3	96.0	96.0	58.3	99.0	46.7	86.3	43.3	86.0	53.3	76.3
LBP-PT-601	.	.	.	.	.	.	.	.	.	.	.	.
LSD VALUE	0	26.0	12.6	14.1	24.4	13.2	19.3	15.1	15.9	25.8	30.1	21.1
C.V. (%)	0	11.4	5.0	4.5	12.8	4.5	19.4	5.4	15.7	8.5	16.4	8.5

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

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

TABLE 2B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT PENSACOLA, FL (LOST KEY GOLF CLUB) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017											
	BERMUDA OVERSEED		BERMUDA OVERSEED		BERMUDA OVERSEED		BERMUDA OVERSEED		BERMUDA OVERSEED		BERMUDA OVERSEED	
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
	3/9	3/9	3/22	3/22	4/11	4/11	4/27	4/27	5/9	5/9	5/26	5/26
LTP-3-PR BLEND	75.0	96.0	96.0	90.0	92.7	83.3	92.7	70.0	96.0	63.3	99.0	53.3
RINGLES	75.0	96.0	96.0	93.0	99.0	89.7	99.0	80.0	99.0	70.0	99.0	53.3
BRIGHTSTAR SLT	75.0	76.3	99.0	76.3	99.0	73.0	99.0	56.7	99.0	60.0	99.0	43.3
FUTURA 3000	75.0	76.3	99.0	70.0	99.0	66.7	99.0	56.7	99.0	60.0	99.0	46.7
NATURAL KNIT	75.0	89.3	92.7	92.7	89.3	76.3	99.0	70.0	96.0	53.3	99.0	43.3
PPG-PR-308	75.0	86.3	86.3	86.3	89.3	66.7	99.0	56.7	92.7	60.0	99.0	40.0
SUN	75.0	76.3	92.7	73.0	96.0	66.3	96.0	53.3	96.0	56.7	99.0	50.0
CHAMPION GQ	75.0	73.0	99.0	56.3	99.0	63.0	99.0	36.7	99.0	53.3	99.0	30.0
LANDMARK WINTERSEED 3 BLEND	75.0	69.7	99.0	53.0	99.0	56.3	99.0	43.3	99.0	50.0	99.0	43.3
LCP-186	75.0	92.7	92.7	76.7	96.0	79.7	99.0	60.0	96.0	63.3	99.0	40.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	75.0	66.3	76.3	76.3	89.3	66.3	89.3	46.7	92.7	50.0	96.0	40.0
ALLSPORT 5	75.0	83.3	96.0	73.3	92.7	73.0	99.0	66.7	96.0	73.3	99.0	43.3
COMMANDER ST	75.0	76.7	99.0	70.0	99.0	66.3	99.0	56.7	99.0	60.0	99.0	33.3
STELLAR 3GL	75.0	73.0	79.3	73.0	82.7	66.3	82.7	53.3	89.3	56.7	92.7	40.0
LANDMARK WINTERSEED 5 BLEND	75.0	66.3	82.7	53.0	99.0	56.3	76.0	53.3	96.0	43.3	82.7	33.3
LINE DRIVE II	75.0	69.7	79.3	50.0	79.3	56.3	82.7	50.0	89.3	53.3	89.3	40.0
PH.D.	75.0	76.3	76.0	69.3	79.3	66.3	82.7	43.3	89.3	43.3	89.3	33.3
PROSPORT 4	75.0	80.0	89.7	83.0	86.0	76.7	99.0	46.7	96.0	43.3	99.0	33.3
FUTURA 2500	75.0	73.3	89.3	66.7	89.3	60.0	89.3	56.7	96.0	50.0	99.0	46.7
IRFL-2-11	75.0	86.3	86.0	60.0	89.3	66.7	89.7	43.3	96.0	56.7	99.0	40.0
SABRE III	73.3	85.0	92.7	63.0	89.3	56.7	92.7	43.3	96.0	56.7	99.0	20.0
TRANSIST 2600	75.0	79.3	99.0	72.7	99.0	69.7	99.0	56.7	99.0	46.7	99.0	43.3
CS-PRX	75.0	60.0	73.0	43.3	76.0	46.7	79.3	30.0	86.0	40.0	89.3	26.7
BREAKOUT	75.0	63.0	79.3	59.7	79.3	53.0	82.7	40.0	89.3	36.7	92.7	16.7
LBP-PT-601	.	.	.	.	.	.	.	.	.	.	.	.
LSD VALUE	1.8	55.7	50.8	57.7	46.6	58.4	50.3	54.9	24.5	42.9	25.6	47.9
C.V. (%)	0.8	22.6	17.5	29.8	15.5	27.2	16.1	35.5	7.7	27.3	8.4	40.4

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

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

TABLE 2B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT PENSACOLA, FL (LOST KEY GOLF CLUB) 1/
2016-17 DATA

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

NAME	LEAF	GROWTH */		GENETIC	GROWTH */		LEAF	COLOR RATINGS				COLOR RATINGS		
	TEXTURE	RATE	WINTER		RATE	SPRING	TEXTURE	12/20	2/16	3/9	4/11	4/27	5/9	5/26
	WINTER	WINTER	COLOR	COLOR	SPRING	DENSITY	SPRING							
LTP-3-PR BLEND	7.3	3.0	8.3	7.0	2.0	7.0	8.3	7.7	8.0	8.0	8.0	7.3	7.7	6.7
RINGLES	7.0	4.3	8.3	7.0	3.0	8.0	8.0	8.0	8.3	8.7	7.0	7.7	7.7	6.7
BRIGHTSTAR SLT	6.7	3.3	7.7	7.3	3.3	8.0	7.7	7.3	7.3	8.3	7.0	7.7	8.3	6.7
FUTURA 3000	7.3	2.7	8.0	7.3	1.7	7.3	8.0	6.7	8.0	7.7	7.7	7.7	7.0	6.7
NATURAL KNIT	7.3	3.0	7.3	7.3	2.3	6.7	7.3	7.0	7.3	6.7	7.0	7.0	6.3	7.0
PPG-PR-308	7.0	3.0	8.3	7.0	2.7	7.7	7.3	8.0	8.7	9.0	8.0	7.7	7.7	6.7
SUN	7.0	3.7	7.0	6.7	3.7	7.3	7.3	7.0	7.7	7.7	7.3	8.0	7.7	7.0
CHAMPION GQ	7.7	2.7	7.3	7.7	2.0	7.7	8.0	6.7	7.3	7.7	7.0	8.0	7.3	5.7
LANDMARK WINTERSEED 3 BLEND	7.0	3.0	7.3	6.7	2.0	6.7	6.7	5.7	6.3	7.0	6.7	7.7	7.3	7.0
LCP-186	6.0	4.0	7.0	6.3	3.7	7.0	7.0	6.3	7.0	7.3	7.7	7.3	7.3	6.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.3	3.0	7.3	6.7	2.3	7.3	7.3	7.0	8.0	8.0	7.0	7.3	6.7	5.7
ALLSPORT 5	6.0	4.3	6.3	6.7	3.7	6.7	7.3	6.0	6.3	6.7	7.3	8.3	7.0	6.7
COMMANDER ST	5.7	3.7	6.3	6.3	3.3	7.3	7.3	6.0	6.3	7.0	7.0	7.3	6.7	6.0
STELLAR 3GL	7.0	2.7	7.3	6.7	2.3	7.0	8.0	7.0	7.0	7.7	7.3	7.7	7.3	5.0
LANDMARK WINTERSEED 5 BLEND	6.5	3.7	6.7	7.7	2.7	6.3	7.0	6.7	7.0	8.0	4.3	7.7	4.3	3.7
LINE DRIVE II	6.7	3.0	6.0	6.7	3.7	7.0	7.7	6.3	6.0	6.3	6.7	7.0	6.7	5.3
PH.D.	8.3	3.0	7.3	6.7	2.7	7.0	8.0	7.0	7.3	8.0	7.3	7.0	5.3	5.0
PROSPORT 4	7.0	3.3	6.0	6.3	3.3	7.0	6.7	5.3	6.3	7.0	6.3	7.3	7.0	6.3
FUTURA 2500	6.0	3.7	6.0	7.3	3.7	6.3	7.0	6.0	6.3	6.7	6.0	6.7	5.7	5.7
IRFL-2-11	6.0	4.3	7.0	7.7	3.3	6.0	6.3	6.7	6.0	6.7	5.7	6.3	5.3	6.0
SABRE III	8.0	1.0	5.7	5.3	2.0	7.3	8.3	6.7	4.7	4.7	5.3	6.7	5.7	3.3
TRANSIST 2600	4.3	4.3	5.3	5.3	4.3	7.0	6.0	4.7	4.3	5.7	4.3	6.0	5.0	5.0
CS-PRX	7.0	2.3	7.0	7.3	2.0	5.0	6.7	6.0	7.0	7.7	7.3	6.3	7.3	4.0
BREAKOUT	5.7	3.7	5.3	5.0	3.7	6.0	7.0	4.3	4.0	4.7	2.7	3.7	2.7	3.7
LBP-PT-601	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LSD VALUE	1.5	2.6	0.9	1.2	2.3	3.2	1.5	1.1	1.2	1.3	2.0	2.1	3.5	5.6
C.V. (%)	12.5	32.2	8.6	9.8	34.6	16.0	10.0	10.5	11.4	11.3	17.2	14.9	24.5	32.9

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

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

*/ GROWTH RATE USED 1-5, 5=TALLEST.

TABLE 2B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT PENSACOLA, FL (LOST KEY GOLF CLUB) 1/
2016-17 DATA

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

NAME	FALL QUALITY		WINTER QUALITY RATINGS			SPRING/SUMMER QUALITY RATINGS 2017					QUALITY MEAN	
	12/1	12/20	1/11	1/26	2/16	3/9	3/22	4/11	4/27	5/9		5/26
LTP-3-PR BLEND	7.7	8.0	7.0	7.3	7.3	8.0	7.3	6.7	7.3	7.3	6.7	7.3
RINGLES	7.3	7.3	7.0	7.3	7.7	7.7	7.7	6.7	7.3	7.7	6.0	7.2
BRIGHTSTAR SLT	8.0	6.3	7.0	7.3	7.3	8.0	7.0	5.7	7.3	7.7	6.7	7.1
FUTURA 3000	7.3	6.0	7.0	7.3	7.3	8.0	7.3	6.3	7.0	6.7	6.3	7.0
NATURAL KNIT	7.7	7.0	7.7	8.0	6.7	7.7	6.0	6.3	7.0	7.0	6.0	7.0
PPG-PR-308	7.7	7.3	7.0	8.0	7.3	8.3	6.7	6.3	6.7	6.3	5.7	7.0
SUN	8.3	6.0	6.7	7.7	7.3	7.3	7.3	5.7	7.0	7.3	6.7	7.0
CHAMPION GQ	8.0	6.0	7.0	6.7	6.7	7.7	7.0	6.0	6.7	6.7	5.0	6.7
LANDMARK WINTERSEED 3 BLEND	6.7	5.7	6.3	7.0	6.7	7.3	6.3	6.0	7.0	7.0	6.3	6.6
LCP-186	7.3	5.7	6.7	7.0	6.7	7.7	6.7	5.7	7.0	6.7	6.0	6.6
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.3	6.3	6.7	7.7	7.0	7.3	6.0	6.0	6.7	6.7	4.7	6.6
ALLSPORT 5	7.0	5.7	6.3	7.0	6.7	7.3	6.7	5.0	7.0	6.0	6.3	6.5
COMMANDER ST	7.3	6.0	6.7	7.3	6.3	7.3	6.7	5.3	7.0	6.3	5.7	6.5
STELLAR 3GL	8.0	6.3	6.7	6.7	6.7	7.0	5.7	5.3	7.0	6.7	4.7	6.4
LANDMARK WINTERSEED 5 BLEND	7.7	5.7	7.0	7.3	7.7	6.7	6.0	4.7	6.7	5.0	4.7	6.3
LINE DRIVE II	7.0	6.0	6.3	7.0	6.7	7.3	6.0	5.0	6.7	5.7	5.0	6.2
PH.D.	7.3	7.0	7.0	7.0	7.0	7.0	5.7	5.3	6.0	5.0	4.0	6.2
PROSPORT 4	7.0	5.0	6.7	6.7	6.3	7.0	5.3	5.7	7.3	5.7	5.7	6.2
FUTURA 2500	7.3	5.7	7.0	6.0	6.7	6.3	6.0	5.3	6.7	4.7	5.7	6.1
IRFL-2-11	8.0	5.7	7.0	7.0	6.3	6.3	5.0	5.0	6.7	4.3	5.7	6.1
SABRE III	7.0	6.0	6.7	7.0	5.7	7.3	6.0	4.3	5.3	6.0	3.3	5.9
TRANSIST 2600	7.3	4.7	6.0	7.3	6.0	7.7	6.0	4.7	6.7	4.3	4.0	5.9
CS-PRX	7.3	5.3	6.7	6.7	7.0	6.3	4.3	4.7	6.0	6.0	4.0	5.8
BREAKOUT	7.3	4.7	6.3	6.3	5.3	5.3	5.0	4.0	5.7	2.7	3.7	5.1
LBP-PT-601	.	.	.	.	.	.	.	.	.	.	.	.
LSD VALUE	1.4	1.3	2.4	2.1	2.2	3.1	3.6	2.5	2.3	3.7	5.3	1.5
C.V. (%)	7.7	12.1	10.2	10.4	12.6	14.9	20.7	18.6	12.2	26.3	32.3	10.2

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

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

TABLE 3B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT JEKYLL ISLAND, GA (JEKYLL ISLAND GOLF CLUB) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD IN 2016				PERCENT COVER OF OVERSEEDING GRASS IN WINTER 2017			PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER (2017)					
	OVERSEED 11/11	GRASS 11/18	OVERSEED 11/29	GRASS 12/9	1/5	1/18	2/2	OVERSEED GRASS 3/2	OVERSEED GRASS 4/7	BERMUDA GRASS 4/27	OVERSEED GRASS 4/27	BERMUDA GRASS 5/25	OVERSEED GRASS 5/25
CS-PRX	85.0	90.0	90.0	88.3	90.0	99.0	99.0	99.0	89.7	47.7	48.0	61.7	38.3
FUTURA 3000	78.3	90.0	90.0	88.3	88.3	99.0	99.0	99.0	88.0	49.3	48.3	65.0	35.0
COMMANDER ST	85.0	88.3	90.0	90.0	90.0	99.0	99.0	99.0	94.7	52.3	44.7	66.7	33.3
LANDMARK WINTERSEED 3 BLEND	86.7	90.0	90.0	86.7	60.0	99.0	99.0	99.0	88.0	55.7	41.3	74.7	25.0
PROSPORT 4	81.7	88.3	90.0	85.0	90.0	99.0	99.0	99.0	88.0	63.7	30.0	80.0	20.0
LANDMARK WINTERSEED 5 BLEND	85.0	90.0	90.0	90.0	90.0	99.0	97.7	99.0	84.7	45.0	50.0	89.7	10.0
RINGLES	83.3	88.3	86.7	86.7	86.7	97.7	97.7	99.0	85.0	45.0	50.0	61.7	38.3
STELLAR 3GL	76.7	86.7	90.0	88.3	75.0	99.0	99.0	99.0	76.3	55.0	41.0	71.7	28.3
CHAMPION GQ	90.0	88.3	90.0	90.0	90.0	99.0	99.0	96.0	86.7	39.0	21.7	84.7	15.0
PPG-PR-308	78.3	88.3	90.0	86.7	90.0	97.7	97.7	99.0	85.0	43.7	47.0	80.0	20.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	81.7	88.3	90.0	90.0	88.3	99.0	99.0	99.0	86.7	58.3	35.0	78.3	21.7
ALLSPORT 5	83.3	90.0	90.0	86.7	90.0	99.0	97.7	96.0	85.0	31.0	34.7	80.0	20.0
BRIGHTSTAR SLT	83.3	88.3	90.0	86.7	90.0	99.0	99.0	97.7	80.0	32.0	32.3	79.7	20.0
IRFL-2-11	76.7	90.0	86.7	80.0	90.0	99.0	99.0	99.0	73.3	53.3	12.7	91.3	8.3
LCP-186	81.7	85.0	86.7	88.3	88.3	99.0	99.0	94.3	83.3	43.7	21.3	86.3	13.3
LINE DRIVE II	86.7	88.3	90.0	85.0	88.3	99.0	96.0	94.3	81.7	48.3	23.0	91.3	8.3
LTP-3-PR BLEND	83.3	90.0	90.0	88.3	90.0	99.0	99.0	94.3	81.7	38.0	26.0	86.3	13.3
NATURAL KNIT	78.3	88.3	86.7	90.0	90.0	97.7	99.0	91.0	75.0	32.7	32.3	79.7	20.0
PH.D.	76.7	90.0	90.0	88.3	88.3	97.7	99.0	87.7	80.0	49.7	18.3	89.7	10.0
SABRE III	60.0	85.0	86.7	85.0	86.7	96.0	89.3	89.3	66.7	24.7	41.3	58.3	41.7
SUN	85.0	88.3	90.0	86.7	90.0	99.0	96.3	96.0	78.3	31.7	36.7	68.3	31.7
TRANSIST 2600	81.7	88.3	90.0	81.7	90.0	97.7	99.0	92.7	70.0	57.3	8.3	76.3	23.3
FUTURA 2500	75.0	90.0	90.0	78.3	80.0	96.0	97.7	86.3	66.7	47.0	13.3	93.0	6.7
BREAKOUT	76.7	88.3	86.7	88.3	90.0	94.7	99.0	94.3	55.0	61.3	5.0	99.0	0.0
LBP-PT-601	.	.	.	.	.	.	.	.	.	55.0	.	96.0	3.3
LSD VALUE	8.4	6.9	8.9	12.3	36.5	5.1	11.2	19.2	55.4	71.5	45.7	39.7	39.9
C.V. (%)	6.1	2.7	3.1	5.3	13.5	1.9	3.7	6.8	20.9	44.2	57.0	20.1	79.9

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

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

TABLE 3B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT JEKYLL ISLAND, GA (JEKYLL ISLAND GOLF CLUB) 1/
2016-17 DATA

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

NAME	LEAF		PERCENT POA	ANNUA	GRASSES	WINTER QUALITY		SPRING/SUMMER QUALITY (2017)				QUALITY MEAN
	TEXTURE	WINTER				IN 2017	3/2	4/7	4/27	5/25		
	WINTER	COLOR	4/7	4/27	5/25	1/18	2/2					
CS-PRX	8	8.3	1.0	2.3	1.0	9.0	9.0	9.0	8.3	8.0	8.7	8.7
FUTURA 3000	8	9.0	1.0	0.3	2.3	9.0	9.0	9.0	8.7	8.0	8.7	8.7
COMMANDER ST	8	8.3	.	2.0	3.0	9.0	9.0	9.0	8.7	8.0	8.0	8.6
LANDMARK WINTERSEED 3 BLEND	8	8.3	.	3.7	3.0	9.0	9.0	9.0	8.3	8.0	8.3	8.6
PROSPORT 4	8	8.3	.	4.0	6.3	9.0	9.0	9.0	7.7	7.7	8.3	8.4
LANDMARK WINTERSEED 5 BLEND	8	8.3	.	25.7	1.7	9.0	9.0	9.0	8.3	6.7	8.0	8.3
RINGLES	8	9.0	.	2.7	5.7	9.0	9.0	8.7	8.3	6.7	8.0	8.3
STELLAR 3GL	8	7.3	1.0	2.7	0.7	9.0	9.0	9.0	6.7	8.0	8.3	8.3
CHAMPION GQ	8	8.7	.	5.7	2.7	9.0	9.0	9.0	8.7	5.3	8.0	8.2
PPG-PR-308	8	8.7	.	20.3	6.0	9.0	9.0	9.0	7.7	6.3	8.0	8.2
SPR SPREADING RYEGRASS OVERSEEDING MIX	8	8.0	.	18.0	2.7	9.0	9.0	9.0	8.0	6.3	8.0	8.2
ALLSPORT 5	8	8.3	.	1.0	0.7	9.0	8.7	8.3	8.7	5.3	8.3	8.1
BRIGHTSTAR SLT	8	8.7	.	2.0	2.3	9.0	9.0	8.7	8.3	5.3	8.3	8.1
IRFL-2-11	8	8.3	.	1.0	0.7	9.0	9.0	9.0	8.0	5.3	8.0	8.1
LCP-186	8	8.3	.	2.3	1.3	9.0	9.0	8.7	8.0	5.3	8.0	8.0
LINE DRIVE II	8	8.3	.	1.7	1.7	9.0	8.7	8.7	8.3	5.3	8.0	8.0
LTP-3-PR BLEND	8	8.7	.	3.7	2.7	9.0	9.0	8.7	8.0	5.3	8.0	8.0
NATURAL KNIT	8	8.7	.	2.7	1.7	9.0	9.0	8.7	7.3	5.3	8.3	7.9
PH.D.	8	8.7	.	3.3	2.3	9.0	9.0	8.3	7.7	5.3	8.0	7.9
SABRE III	9	6.3	.	1.7	0.7	9.0	8.3	8.7	7.0	5.7	8.7	7.9
SUN	8	8.7	.	25.3	1.7	9.0	9.0	8.3	7.7	5.3	8.0	7.9
TRANSIST 2600	8	7.3	.	3.3	1.0	9.0	9.0	8.7	7.3	5.3	8.0	7.9
FUTURA 2500	8	8.0	2.0	2.0	3.0	8.7	9.0	8.3	6.7	5.3	8.0	7.7
BREAKOUT	8	6.7	.	1.0	2.0	8.3	8.3	8.3	6.3	5.3	8.0	7.4
LBP-PT-601	.	.	2.7	4.3	1.7	.	.	.	.	0.0	8.0	6.7
LSD VALUE	0	1.5	.	45.4	5.3	0.3	0.8	1.1	3.0	6.4	0.8	1.6
C.V. (%)	0	9.0	.	243.3	93.6	1.8	3.3	4.6	13.5	32.2	4.1	7.7

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 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT MISS., ST., MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD (2016)								WINTER PERCENT COVER OF LIVING GRASSES					
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
CS-PRX	53.3	46.7	28.3	71.7	11.7	88.3	8.3	91.7	5.0	95.0	3.0	97.0	3.0	97.0
FUTURA 3000	48.3	51.7	31.7	68.3	11.7	88.3	5.0	95.0	5.0	95.0	2.0	98.0	2.0	98.0
SUN	53.3	46.7	30.0	70.0	11.7	88.3	6.7	93.3	5.0	95.0	3.0	97.0	2.0	98.0
BRIGHTSTAR SLT	50.0	50.0	30.0	70.0	10.0	90.0	5.0	95.0	5.0	95.0	2.0	98.0	2.0	98.0
PPG-PR-308	43.3	56.7	28.3	71.7	10.0	90.0	5.0	95.0	5.0	95.0	3.0	97.0	3.0	97.0
STELLAR 3GL	48.3	51.7	28.3	71.7	10.0	90.0	5.0	95.0	5.0	95.0	2.0	98.0	3.0	97.0
ALLSPORT 5	40.0	60.0	30.0	70.0	10.0	90.0	5.0	95.0	5.3	94.7	3.0	97.0	2.0	98.0
CHAMPION GQ	46.7	53.3	30.0	70.0	11.7	88.3	6.7	93.3	5.0	95.0	3.0	97.0	4.0	96.0
LANDMARK WINTERSEED 3 BLEND	50.0	50.0	31.7	68.3	11.7	88.3	6.7	93.3	6.7	93.3	4.7	95.3	4.0	96.0
LANDMARK WINTERSEED 5 BLEND	46.7	53.3	30.0	70.0	10.0	90.0	6.7	93.3	5.0	95.0	4.0	96.0	2.0	98.0
LTP-3-PR BLEND	45.0	55.0	28.3	71.7	11.7	88.3	5.0	95.0	6.7	93.3	4.0	96.0	3.0	97.0
NATURAL KNIT	50.0	50.0	31.7	68.3	11.7	88.3	8.3	91.7	5.0	95.0	3.0	97.0	3.0	97.0
PH.D.	43.3	56.7	28.3	71.7	11.7	88.3	6.7	93.3	5.0	95.0	3.0	97.0	3.0	97.0
RINGLES	43.3	56.7	28.3	71.7	10.0	90.0	8.3	91.7	5.0	95.0	4.0	96.0	3.0	97.0
LCP-186	48.3	51.7	28.3	71.7	10.0	90.0	5.0	95.0	5.0	95.0	2.0	98.0	3.0	97.0
LINE DRIVE II	46.7	53.3	30.0	70.0	10.0	90.0	5.0	95.0	5.0	95.0	3.0	97.0	2.0	98.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	50.0	50.0	30.0	70.0	13.3	86.7	8.3	91.7	5.0	95.0	4.0	96.0	2.0	98.0
COMMANDER ST	51.7	48.3	33.3	66.7	11.7	88.3	8.3	91.7	5.0	95.0	3.0	97.0	5.7	94.3
IRFL-2-11	50.0	50.0	30.0	70.0	10.0	90.0	5.0	95.0	3.7	96.3	2.0	98.0	3.0	97.0
PROSPORT 4	50.0	50.0	30.0	70.0	10.0	90.0	5.0	95.0	5.0	95.0	3.0	97.0	3.0	97.0
FUTURA 2500	58.3	41.7	30.0	70.0	11.7	88.3	6.7	93.3	5.0	95.0	4.0	96.0	5.7	94.3
TRANSIST 2600	53.3	46.7	38.3	61.7	10.0	90.0	5.0	95.0	3.7	96.3	3.0	97.0	4.0	96.0
SABRE III	66.7	33.3	48.3	51.7	20.0	80.0	15.0	85.0	11.7	88.3	8.3	91.7	11.7	88.3
BREAKOUT	50.0	50.0	40.0	60.0	13.3	86.7	6.7	93.3	8.3	91.7	5.7	94.3	5.0	95.0
LBP-PT-601	99.0	0.0	97.0	3.0	80.0	20.0	73.3	26.7	38.3	61.7	40.0	60.0	30.0	70.0
LSD VALUE	7.8	7.8	4.3	4.3	3.3	3.3	3.7	3.7	2.7	2.7	3.2	3.2	2.6	2.6
C.V. (%)	10.0	10.6	8.7	4.5	16.1	2.6	27.5	2.8	27.5	2.0	44.8	2.3	38.2	1.8

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

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

TABLE 4B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT MISS., ST., MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017									
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
CS-PRX	3.0	97.0	18.3	81.7	40.0	60.0	40.0	60.0	48.3	46.7
FUTURA 3000	2.0	98.0	15.0	85.0	40.0	60.0	40.0	60.0	48.3	45.0
SUN	4.7	95.3	15.0	85.0	33.3	66.7	40.0	60.0	50.0	45.0
BRIGHTSTAR SLT	2.0	98.0	15.0	85.0	40.0	60.0	43.3	56.7	50.0	43.3
PPG-PR-308	2.0	98.0	16.7	83.3	40.0	60.0	46.7	53.3	53.3	38.3
STELLAR 3GL	2.0	98.0	15.0	85.0	33.3	66.7	43.3	56.7	50.0	43.3
ALLSPORT 5	2.0	98.0	16.7	83.3	36.7	63.3	43.3	56.7	53.3	38.3
CHAMPION GQ	4.7	95.3	15.0	85.0	40.0	60.0	46.7	48.3	50.0	38.3
LANDMARK WINTERSEED 3 BLEND	3.0	97.0	15.0	85.0	40.0	60.0	46.7	53.3	53.3	38.3
LANDMARK WINTERSEED 5 BLEND	3.0	97.0	15.0	85.0	40.0	60.0	43.3	56.7	46.7	43.3
LTP-3-PR BLEND	3.0	97.0	16.7	83.3	43.3	56.7	46.7	53.3	50.0	41.7
NATURAL KNIT	8.3	90.0	16.7	83.3	46.7	53.3	46.7	53.3	56.7	35.0
PH.D.	4.7	95.3	16.7	83.3	43.3	56.7	43.3	53.3	50.0	38.3
RINGLES	3.0	97.0	16.7	83.3	36.7	63.3	43.3	56.7	50.0	41.7
LCP-186	2.0	98.0	15.0	85.0	40.0	60.0	46.7	53.3	50.0	40.0
LINE DRIVE II	3.0	97.0	16.7	83.3	36.7	63.3	50.0	50.0	53.3	35.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	4.0	96.0	15.0	85.0	40.0	60.0	50.0	50.0	50.0	40.0
COMMANDER ST	6.7	93.3	15.0	85.0	36.7	63.3	43.3	53.3	60.0	26.7
IRFL-2-11	3.0	97.0	16.7	83.3	36.7	63.3	46.7	53.3	56.7	31.7
PROSPORT 4	4.7	95.3	15.0	85.0	36.7	63.3	50.0	46.7	53.3	36.7
FUTURA 2500	8.3	91.7	16.7	83.3	43.3	56.7	50.0	50.0	50.0	38.3
TRANSIST 2600	6.7	93.3	18.3	81.7	40.0	60.0	50.0	50.0	60.0	23.3
SABRE III	21.7	78.3	25.0	75.0	40.0	36.7	46.7	21.7	53.3	20.0
BREAKOUT	11.7	88.3	20.0	80.0	40.0	60.0	50.0	35.0	53.3	16.7
LBP-PT-601	35.0	63.3	36.7	63.3	56.7	36.7	63.3	10.0	61.7	16.7
LSD VALUE	4.4	4.4	2.9	2.9	9.5	8.9	9.3	9.5	6.5	8.9
C.V. (%)	47.6	3.1	11.2	2.3	12.4	9.3	10.7	12.4	7.0	15.7

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 4B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT MISS., ST., MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017							
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
CS-PRX	58.3	40.0	60.0	36.7	65.0	30.0	86.7	8.3
FUTURA 3000	58.3	41.7	63.3	36.7	66.7	28.3	88.3	6.7
SUN	56.7	43.3	60.0	36.7	68.3	26.7	80.0	10.0
BRIGHTSTAR SLT	58.3	40.0	60.0	36.7	71.7	23.3	86.7	5.0
PPG-PR-308	58.3	38.3	61.7	36.7	70.0	25.0	78.3	16.7
STELLAR 3GL	58.3	36.7	60.0	36.7	66.7	28.3	90.0	5.0
ALLSPORT 5	60.0	36.7	61.7	33.3	70.0	25.0	90.0	6.7
CHAMPION GQ	58.3	36.7	63.3	35.0	75.0	20.0	85.0	8.3
LANDMARK WINTERSEED 3 BLEND	60.0	35.0	61.7	36.7	66.7	28.3	90.0	5.0
LANDMARK WINTERSEED 5 BLEND	58.3	36.7	66.7	30.0	73.3	20.0	81.7	10.0
LTP-3-PR BLEND	58.3	36.7	60.0	38.3	68.3	28.3	88.3	6.7
NATURAL KNIT	58.3	36.7	60.0	38.3	71.7	23.3	85.0	10.0
PH.D.	58.3	38.3	65.0	33.3	68.3	26.7	83.3	8.3
RINGLES	60.0	36.7	61.7	33.3	68.3	26.7	88.3	6.7
LCP-186	58.3	36.7	63.3	31.7	71.7	23.3	85.0	6.7
LINE DRIVE II	58.3	36.7	63.3	33.3	65.0	30.0	83.3	10.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	60.0	36.7	63.3	33.3	73.3	21.7	86.7	5.0
COMMANDER ST	60.0	33.3	66.7	30.0	73.3	20.0	90.0	5.0
IRFL-2-11	60.0	35.0	66.7	26.7	75.0	16.7	88.3	5.0
PROSPORT 4	60.0	31.7	63.3	33.3	75.0	20.0	86.7	8.3
FUTURA 2500	60.0	33.3	65.0	30.0	75.0	20.0	88.3	5.0
TRANSIST 2600	65.0	23.3	73.3	16.7	81.7	11.7	91.7	1.7
SABRE III	56.7	26.7	51.7	40.0	53.3	41.7	61.7	26.7
BREAKOUT	63.3	10.0	71.7	10.0	76.7	5.0	86.7	1.7
LBP-PT-601	61.7	25.0	63.3	28.3	61.7	33.3	76.7	13.3
LSD VALUE	8.0	7.8	7.4	9.3	12.1	11.0	7.4	6.9
C.V. (%)	4.9	14.1	6.5	17.1	8.9	26.3	5.4	51.3

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

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

TABLE 4B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT MISS., ST., MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT EARLY ESTABLISHMENT	PLOT COLOR WINTER	LEAF TEXTURE WINTER	GROWTH */ RATE WINTER	GENETIC COLOR	GROWTH */ RATE SPRING	SPRING DENSITY	LEAF TEXTURE SPRING
CS-PRX	90.0	7.3	7.0	2.0	7.7	2.7	6.3	6.0
FUTURA 3000	90.0	7.0	7.0	2.3	7.0	2.7	6.0	6.7
SUN	86.7	6.7	7.0	2.3	6.3	3.0	6.7	6.3
BRIGHTSTAR SLT	90.0	6.3	7.0	2.0	7.0	3.0	6.3	6.3
PPG-PR-308	90.0	7.3	7.0	2.3	7.3	3.0	6.0	6.0
STELLAR 3GL	90.0	6.3	7.0	2.3	7.0	3.0	6.0	6.3
ALLSPORT 5	90.0	6.7	7.0	2.7	6.7	3.3	6.0	6.0
CHAMPION GQ	90.0	6.3	7.0	2.0	6.7	3.3	6.0	6.3
LANDMARK WINTERSEED 3 BLEND	86.7	6.3	7.0	2.3	7.0	3.0	6.0	6.0
LANDMARK WINTERSEED 5 BLEND	86.7	6.7	7.0	2.3	7.0	2.7	6.0	6.3
LTP-3-PR BLEND	86.7	6.7	7.0	2.0	7.0	3.3	6.0	6.3
NATURAL KNIT	85.0	6.0	7.0	2.3	7.0	3.3	6.3	6.3
PH.D.	90.0	6.7	7.0	2.3	7.0	2.7	6.0	6.3
RINGLES	90.0	7.0	7.0	2.3	7.3	3.0	6.3	6.7
LCP-186	86.7	7.0	7.0	2.3	7.0	3.0	6.0	6.0
LINE DRIVE II	90.0	6.3	7.0	2.7	6.0	3.0	6.0	6.3
SPR SPREADING RYEGRASS OVERSEEDING MIX	90.0	6.3	7.0	2.3	7.0	2.7	6.0	6.0
COMMANDER ST	86.7	6.0	6.7	3.0	6.0	2.7	6.0	6.3
IRFL-2-11	90.0	6.3	6.0	3.3	6.3	3.7	6.0	6.0
PROSPORT 4	86.7	6.0	7.0	2.7	6.3	2.7	6.0	6.0
FUTURA 2500	80.0	6.0	6.3	3.7	6.3	4.0	5.7	5.7
TRANSIST 2600	86.7	5.7	5.3	4.7	4.3	4.7	5.3	4.7
SABRE III	73.3	6.0	8.0	1.3	4.7	1.0	8.0	8.0
BREAKOUT	86.7	5.3	6.0	3.3	4.0	5.0	4.7	4.7
LBP-PT-601	11.7	5.0	6.3	2.7	5.0	2.7	4.7	5.7
LSD VALUE	4.6	0.9	0.5	0.8	0.6	0.7	0.7	0.7
C.V. (%)	3.8	8.0	4.5	19.6	6.6	14.3	7.5	7.5

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.

*/ GROWTH RATE USED 1-5, 5=TALLEST.

TABLE 4B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT MISS., ST., MS (MISSISSIPPI STATE UNIVERSITY GOLF COURSE) 1/
2016-17 DATA

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

NAME	QUALITY RATINGS IN SPRING/SUMMER TRANSITION PERIOD																QUALITY MEAN	
	FALL QUALITY 2016				WINTER QUALITY 2016													
CS-PRX	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.3	7.0	7.3	7.0	8.0	7.0	7.0	7.0	7.0	6.7	7.1
FUTURA 3000	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.7	8.0	8.0	7.0	7.0	7.0	7.0	6.3	7.1
SUN	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.7	7.7	8.0	7.0	7.0	7.0	7.0	6.3	7.1
BRIGHTSTAR SLT	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.7	7.3	8.0	6.7	7.0	7.0	6.3	6.0	7.0
PPG-PR-308	7.0	7.0	7.0	7.0	7.3	7.3	7.3	7.3	7.3	7.0	7.0	7.3	6.3	6.7	7.0	7.0	6.0	7.0
STELLAR 3GL	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.7	6.7	6.7	7.0	7.0	6.0	7.0
ALLSPORT 5	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.0	7.0	7.3	7.0	7.7	6.3	6.7	6.7	7.0	5.7	6.9
CHAMPION GQ	7.0	7.0	7.0	7.0	7.0	6.7	6.7	7.0	7.3	7.3	7.7	7.0	6.3	6.7	6.7	7.0	5.7	6.9
LANDMARK WINTERSEED 3 BLEND	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3	6.7	7.0	7.0	6.0	6.9
LANDMARK WINTERSEED 5 BLEND	7.0	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.0	7.7	6.3	6.7	6.7	7.0	5.7	6.9
LTP-3-PR BLEND	7.0	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.3	7.3	7.3	7.3	6.7	6.3	6.7	7.0	6.0	6.9
NATURAL KNIT	7.0	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.3	6.3	6.3	6.3	7.0	6.3	6.9
PH.D.	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.3	7.3	7.3	7.3	6.0	6.7	6.3	6.3	5.7	6.9
RINGLES	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.7	7.3	6.0	7.0	7.0	7.0	6.0	6.9
LCP-186	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.3	6.0	6.3	6.7	7.0	5.3	6.8
LINE DRIVE II	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	5.7	6.7	6.7	7.0	6.0	6.8
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.0	6.0	7.0	6.7	6.7	5.3	6.8
COMMANDER ST	7.0	6.7	6.7	7.0	7.0	6.7	6.7	7.0	6.7	7.0	7.0	6.7	6.0	6.3	6.7	7.0	5.7	6.7
IRFL-2-11	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.0	7.3	6.0	6.0	6.0	6.0	6.0	6.7
PROSPORT 4	7.0	6.7	7.0	7.0	7.0	6.7	7.0	7.0	7.0	7.0	7.3	6.7	6.0	6.3	6.3	7.0	5.7	6.7
FUTURA 2500	7.0	6.3	6.7	7.0	7.0	6.7	6.7	6.7	7.0	7.0	7.0	7.0	6.0	6.0	6.3	7.0	5.3	6.6
TRANSIST 2600	6.3	6.3	6.3	6.3	6.3	6.3	6.0	6.3	6.0	6.3	6.0	7.3	5.7	5.7	6.0	6.0	5.7	6.2
SABRE III	5.0	5.3	6.0	6.0	5.7	6.3	6.7	6.0	6.0	6.0	5.0	4.3	4.7	5.3	5.7	7.3	5.3	5.7
BREAKOUT	6.7	6.0	6.0	6.3	6.0	5.3	6.0	6.0	6.0	6.0	6.0	5.3	4.3	4.3	4.7	5.3	4.7	5.6
LBP-PT-601	4.0	3.0	3.0	3.0	3.0	3.7	3.7	4.0	4.0	5.0	4.0	5.0	4.7	5.7	5.7	7.0	5.3	4.3
LSD VALUE	0.2	0.5	0.3	0.2	0.3	0.6	0.5	0.4	0.5	0.6	0.5	0.7	0.9	0.8	0.8	0.4	1.5	0.3
C.V. (%)	2.4	5.0	3.5	2.4	3.0	6.0	5.2	3.8	4.8	5.7	5.1	6.8	8.6	7.3	6.9	3.8	10.2	2.7

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 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT RALEIGH, NC (LONNIE POOLE GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN 2016 FALL						PERCENT COVER OF LIVING GRASSES IN WINTER	
	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
NATURAL KNIT	85.0	93.3	50.0	93.3	16.7	95.0	0.0	99.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	90.0	95.0	60.0	95.0	20.0	95.0	0.0	99.0
STELLAR 3GL	83.3	93.3	50.0	93.3	13.3	95.0	0.0	99.0
LTP-3-PR BLEND	90.0	91.7	56.7	91.7	20.0	95.0	0.0	99.0
LANDMARK WINTERSEED 5 BLEND	86.7	90.0	53.3	93.3	10.0	95.0	0.0	99.0
PPG-PR-308	83.3	88.3	46.7	90.0	16.7	93.3	0.0	99.0
PH.D.	80.0	83.3	43.3	85.0	13.3	90.0	0.0	99.0
SUN	85.0	88.3	53.3	90.0	10.0	95.0	0.0	99.0
ALLSPORT 5	86.7	88.3	46.7	88.3	13.3	93.3	0.0	99.0
CS-PRX	85.0	90.0	53.3	91.7	13.3	93.3	0.0	99.0
LANDMARK WINTERSEED 3 BLEND	81.7	88.3	46.7	88.3	13.3	93.3	0.0	99.0
BRIGHTSTAR SLT	80.0	86.7	41.7	86.7	10.0	91.7	1.7	97.7
LINE DRIVE II	86.7	93.3	50.0	93.3	16.7	95.0	0.0	99.0
CHAMPION GQ	83.3	90.0	53.3	90.0	13.3	93.3	0.0	99.0
FUTURA 3000	83.3	86.7	46.7	88.3	10.0	93.3	0.0	99.0
LCP-186	81.7	85.0	46.7	90.0	13.3	93.3	23.3	99.0
COMMANDER ST	88.3	91.7	56.7	93.3	13.3	95.0	0.0	99.0
RINGLES	78.3	83.3	41.7	83.3	10.0	90.0	0.0	99.0
PROSPORT 4	83.3	90.0	46.7	90.0	13.3	91.7	0.0	99.0
FUTURA 2500	81.7	81.7	40.0	81.7	10.0	90.0	0.0	99.0
SABRE III	80.0	90.0	43.3	90.0	16.7	91.7	1.7	97.7
IRFL-2-11	78.3	85.0	41.7	85.0	16.7	90.0	0.0	99.0
BREAKOUT	81.7	91.7	45.0	91.7	13.3	95.0	0.0	99.0
TRANSIST 2600	81.7	83.3	36.7	83.3	13.3	90.0	0.0	99.0
LBP-PT-601	70.0	0.0	31.7	0.0	16.7	0.0	41.7	35.0
LSD VALUE	18.4	7.7	36.6	8.1	12.4	5.7	23.2	1.8
C.V. (%)	7.9	6.2	24.5	6.4	32.8	4.3	406.2	1.3

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

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

TABLE 5B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT RALEIGH, NC (LONNIE POOLE GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN 2017 SPRING/SUMMER TRANSITION PERIOD											
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
NATURAL KNIT	16.7	83.3	36.7	63.3	43.3	56.7	70.0	30.0	80.0	20.0	99	0
SPR SPREADING RYEGRASS OVERSEEDING MIX	20.0	80.0	36.7	63.3	43.3	56.7	71.7	28.3	81.7	18.3	99	0
STELLAR 3GL	20.0	80.0	35.0	65.0	46.7	53.3	73.3	26.7	86.7	13.3	99	0
LTP-3-PR BLEND	26.7	73.3	45.0	55.0	51.7	48.3	71.7	28.3	86.7	13.3	99	0
LANDMARK WINTERSEED 5 BLEND	23.3	76.7	46.7	53.3	50.0	50.0	78.3	21.7	88.3	11.7	99	0
PPG-PR-308	28.3	71.7	38.3	61.7	50.0	50.0	71.7	28.3	86.7	13.3	99	0
PH.D.	25.0	75.0	40.0	60.0	46.7	53.3	71.7	28.3	85.0	15.0	99	0
SUN	25.0	75.0	43.3	56.7	51.7	48.3	73.3	26.7	85.0	15.0	99	0
ALLSPORT 5	26.7	73.3	50.0	50.0	61.7	38.3	88.3	11.7	95.0	5.0	99	0
CS-PRX	28.3	71.7	45.0	55.0	58.3	41.7	76.7	23.3	91.7	8.3	99	0
LANDMARK WINTERSEED 3 BLEND	26.7	73.3	46.7	53.3	48.3	51.7	78.3	21.7	88.3	11.7	99	0
BRIGHTSTAR SLT	26.7	73.3	40.0	60.0	43.3	56.7	71.7	28.3	81.7	18.3	99	0
LINE DRIVE II	26.7	73.3	45.0	55.0	58.3	41.7	76.7	23.3	88.3	11.7	99	0
CHAMPION GQ	26.7	73.3	45.0	55.0	55.0	45.0	76.7	23.3	85.0	15.0	99	0
FUTURA 3000	25.0	75.0	40.0	60.0	46.7	53.3	71.7	28.3	83.3	16.7	99	0
LCP-186	23.3	76.7	50.0	50.0	53.3	46.7	80.0	20.0	90.0	10.0	99	0
COMMANDER ST	33.3	66.7	50.0	50.0	65.0	35.0	85.0	15.0	90.0	10.0	99	0
RINGLES	30.0	70.0	41.7	58.3	51.7	48.3	70.0	30.0	80.0	20.0	99	0
PROSPORT 4	28.3	71.7	48.3	51.7	58.3	41.7	75.0	25.0	83.3	16.7	99	0
FUTURA 2500	35.0	65.0	43.3	56.7	53.3	46.7	75.0	25.0	85.0	15.0	99	0
SABRE III	20.0	80.0	28.3	71.7	35.0	65.0	51.7	48.3	53.3	46.7	99	0
IRFL-2-11	30.0	70.0	50.0	50.0	55.0	45.0	78.3	21.7	91.7	8.3	99	0
BREAKOUT	36.7	63.3	53.3	46.7	65.0	35.0	90.0	10.0	95.0	5.0	99	0
TRANSIST 2600	36.7	63.3	48.3	51.7	56.7	43.3	78.3	21.7	93.3	6.7	99	0
LBP-PT-601	53.3	46.7	81.7	18.3	85.0	15.0	93.3	6.7	93.3	6.7	99	0
LSD VALUE	8.0	8.0	12.1	12.1	14.4	14.4	10.5	10.5	8.0	8.0	0	0
C.V. (%)	18.0	7.0	16.3	13.4	15.8	18.1	8.4	26.4	5.9	36.2	0	.

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

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

TABLE 5B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT RALEIGH, NC (LONNIE POOLE GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT EARLY ESTABLISHMENT	PLOT COLOR WINTER	LEAF TEXTURE WINTER	GROWTH */ RATE WINTER	GENETIC COLOR	GROWTH */ RATE SPRING	SPRING DENSITY	LEAF TEXTURE SPRING
NATURAL KNIT	70.0	8.3	8.0	2.7	8.3	3.0	8.0	8.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	78.3	8.0	8.0	2.7	8.3	3.0	8.0	7.7
STELLAR 3GL	71.7	8.0	7.7	3.0	8.0	3.0	8.0	7.7
LTP-3-PR BLEND	73.3	8.0	8.0	2.3	8.0	2.3	8.0	8.0
LANDMARK WINTERSEED 5 BLEND	63.3	7.7	8.0	3.0	8.0	2.7	7.7	8.0
PPG-PR-308	73.3	8.3	8.0	3.0	8.7	2.3	7.3	8.0
PH.D.	60.0	8.7	8.0	3.0	8.7	2.7	8.0	8.0
SUN	75.0	8.0	7.0	2.7	7.7	2.7	7.3	7.3
ALLSPORT 5	75.0	7.7	8.0	2.7	7.3	3.3	7.0	7.3
CS-PRX	71.7	8.0	7.3	2.7	8.0	2.7	8.0	7.3
LANDMARK WINTERSEED 3 BLEND	66.7	7.7	7.7	2.3	7.7	2.7	7.7	7.7
BRIGHTSTAR SLT	71.7	8.0	8.0	2.7	8.0	3.0	7.7	8.0
LINE DRIVE II	78.3	7.7	7.3	2.7	7.7	2.7	7.0	7.3
CHAMPION GQ	76.7	8.0	8.0	2.3	8.0	2.3	7.3	8.0
FUTURA 3000	65.0	8.0	8.0	2.7	8.0	2.7	7.7	8.0
LCP-186	75.0	7.7	7.0	3.3	7.3	3.0	7.0	7.3
COMMANDER ST	71.7	6.7	7.0	3.3	6.7	3.3	6.7	7.0
RINGLES	68.3	8.0	8.0	1.0	8.0	2.7	7.0	7.7
PROSPORT 4	80.0	7.3	7.3	3.7	7.0	3.7	6.3	6.7
FUTURA 2500	61.7	7.3	7.0	3.0	6.7	4.0	6.3	6.3
SABRE III	73.3	5.7	9.0	2.0	5.0	1.3	9.0	9.0
IRFL-2-11	78.3	5.7	7.0	3.7	5.3	4.0	5.7	6.0
BREAKOUT	78.3	4.0	7.0	5.0	4.0	5.0	5.0	5.7
TRANSIST 2600	78.3	5.0	6.0	5.0	4.7	4.7	5.7	5.0
LBP-PT-601	0.0	2.0	.	.	.	.	1.0	.
LSD VALUE	7.0	0.7	0.4	1.0	0.8	0.9	0.8	0.6
C.V. (%)	6.8	6.5	3.5	21.8	7.3	18.4	7.9	5.7

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

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

TABLE 5B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT RALEIGH, NC (LONNIE POOLE GOLF COURSE) 1/
2016-17 DATA

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

NAME	FALL QUALITY RATINGS 2016			WINTER QUALITY RATINGS			SPRING/SUMMER QUALITY RATINGS			QUALITY MEAN	
NATURAL KNIT	7.0	6.7	7.0	8.0	9.0	8.0	7.7	7.7	6.7	8	7.6
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.3	7.0	7.0	7.7	8.3	8.0	7.7	7.0	6.7	8	7.5
STELLAR 3GL	7.0	6.3	6.7	7.7	8.0	7.7	8.0	7.7	6.7	8	7.4
LTP-3-PR BLEND	6.7	6.7	7.0	7.7	8.3	7.3	7.3	7.0	6.7	8	7.3
LANDMARK WINTERSEED 5 BLEND	7.0	7.0	7.0	7.0	8.0	7.0	7.3	7.3	6.7	8	7.2
PPG-PR-308	6.7	6.3	7.0	7.7	8.3	7.0	7.0	7.0	6.7	8	7.2
PH.D.	6.7	5.7	6.3	7.0	8.3	8.0	8.0	7.0	6.3	8	7.1
SUN	6.7	6.3	6.7	7.3	7.7	7.3	7.3	7.0	6.7	8	7.1
ALLSPORT 5	6.7	6.0	6.3	7.3	7.3	7.0	7.0	8.0	7.0	8	7.1
CS-PRX	7.0	6.3	6.7	7.0	7.7	6.7	7.3	7.0	6.7	8	7.0
LANDMARK WINTERSEED 3 BLEND	6.7	6.0	6.3	6.7	7.3	7.3	7.3	8.0	6.7	8	7.0
BRIGHTSTAR SLT	6.3	6.0	6.7	6.7	7.7	7.3	7.3	7.7	6.3	8	7.0
LINE DRIVE II	6.7	6.3	7.0	7.3	7.7	6.7	6.7	7.3	6.3	8	7.0
CHAMPION GQ	6.7	6.3	6.7	7.3	7.3	7.0	7.0	7.0	6.3	8	7.0
FUTURA 3000	6.3	5.7	6.3	6.7	8.0	8.0	7.0	7.3	6.0	8	6.9
LCP-186	6.7	5.7	6.3	7.0	8.0	7.3	6.7	7.0	6.7	8	6.9
COMMANDER ST	6.3	6.0	6.7	7.0	7.0	6.7	6.7	7.3	6.7	8	6.8
RINGLES	6.0	5.3	6.0	6.3	7.0	7.0	7.3	7.3	6.0	8	6.6
PROSPORT 4	6.3	5.7	6.0	7.0	7.0	6.0	6.3	7.0	6.3	8	6.6
FUTURA 2500	6.0	5.3	5.7	6.3	6.3	6.7	6.7	7.0	6.3	8	6.4
SABRE III	6.0	5.0	6.0	7.0	6.7	6.7	6.3	6.7	4.7	8	6.3
IRFL-2-11	5.3	4.7	5.7	6.7	6.7	6.0	5.3	6.0	5.7	8	6.0
BREAKOUT	5.3	4.7	5.7	7.0	5.0	4.7	5.0	5.0	6.7	8	5.7
TRANSIST 2600	5.0	4.3	5.3	6.0	6.0	5.7	5.0	5.0	6.3	8	5.7
LBP-PT-601	3.7	2.7	2.3	2.0	2.0	2.7	3.7	6.7	5.7	8	3.9
LSD VALUE	1.2	1.4	1.0	0.8	0.7	0.7	0.8	0.6	1.2	0	0.5
C.V. (%)	10.8	14.2	9.9	7.5	6.7	7.0	7.7	5.2	9.1	0	4.5

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

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

TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LAS CRUCES, NM (NEW MEXICO STATE UNIVERSITY G.C.) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD 2016							
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	11/9	11/9	11/22	11/22	12/6	12/6	12/22	12/22
CS-PRX	23.3	76.7	15.0	84.7	15.0	84.7	10.0	89.7
LANDMARK WINTERSEED 3 BLEND	23.3	76.7	18.3	81.7	6.7	93.3	10.0	90.0
BRIGHTSTAR SLT	20.0	80.0	26.7	73.3	13.3	86.7	13.3	86.7
LANDMARK WINTERSEED 5 BLEND	23.3	76.7	26.7	73.3	10.0	90.0	18.3	81.7
STELLAR 3GL	35.0	65.0	18.3	81.7	13.3	86.7	11.7	88.0
COMMANDER ST	31.7	68.3	26.7	73.3	6.7	93.0	11.7	88.3
LCP-186	23.3	76.7	18.3	81.7	13.3	86.7	11.7	88.3
PH.D.	31.7	68.3	25.0	75.0	11.7	88.3	13.3	86.7
LINE DRIVE II	18.3	81.7	23.3	76.7	10.0	90.0	15.0	85.0
ALLSPORT 5	28.3	71.7	20.0	80.0	15.0	85.0	15.0	85.0
FUTURA 2500	28.3	71.7	28.3	71.7	15.0	84.7	16.7	83.3
SPR SPREADING RYEGRASS OVERSEEDING MIX	23.3	76.7	23.3	76.7	15.0	85.0	16.7	83.3
CHAMPION GQ	30.0	70.0	28.3	71.7	23.3	76.7	23.3	76.7
PPG-PR-308	33.3	66.7	26.7	73.3	18.3	81.7	13.3	86.7
LTP-3-PR BLEND	30.0	70.0	36.7	63.3	28.3	71.7	23.3	76.7
FUTURA 3000	25.0	75.0	35.0	65.0	25.0	75.0	18.3	81.7
NATURAL KNIT	18.3	81.7	33.3	66.7	18.3	81.7	21.7	78.3
RINGLES	26.7	73.3	35.0	65.0	16.7	83.3	20.0	80.0
PROSPORT 4	26.7	73.3	30.0	70.0	25.0	75.0	25.0	75.0
IRFL-2-11	30.0	70.0	36.7	63.3	25.0	75.0	20.0	80.0
SUN	31.7	68.3	28.3	71.7	28.3	71.7	21.7	78.3
TRANSIST 2600	30.0	70.0	25.0	75.0	11.7	88.3	11.7	88.3
BREAKOUT	31.7	68.3	20.0	80.0	11.7	88.3	10.0	90.0
SABRE III	31.7	68.3	23.3	76.7	15.0	85.0	20.0	80.0
LBP-PT-601	97.7	1.7	85.0	15.0	93.3	6.7	61.7	38.3
LSD VALUE	15.6	15.6	24.2	24.1	13.4	13.3	11.9	11.8
C.V. (%)	32.7	14.1	46.3	18.5	45.1	10.8	40.8	9.0

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

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

TABLE 6B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LAS CRUCES, NM (NEW MEXICO STATE UNIVERSITY G.C.) 1/
2016-17 DATA

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

NAME	PERCENT COVER LIVING GRASSES IN WINTER 2017							
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	1/9	1/9	1/22	1/22	2/7	2/7	2/22	2/22
CS-PRX	8.3	91.3	8.3	91.3	6.7	93.0	6.7	93.0
LANDMARK WINTERSEED 3 BLEND	6.7	93.0	6.7	93.0	1.7	97.7	3.3	96.3
BRIGHTSTAR SLT	8.3	91.7	6.7	93.3	3.3	96.3	5.0	94.7
LANDMARK WINTERSEED 5 BLEND	5.0	94.7	3.3	96.3	5.0	94.7	1.7	97.7
STELLAR 3GL	6.7	93.0	5.0	94.7	6.7	93.0	3.3	96.3
COMMANDER ST	5.0	95.0	5.0	95.0	5.0	95.0	3.3	96.3
LCP-186	8.3	91.7	10.0	90.0	5.0	95.0	3.3	96.3
PH.D.	8.3	91.7	5.0	95.0	5.0	95.0	6.7	93.3
LINE DRIVE II	8.3	91.3	6.7	93.3	8.3	91.3	6.7	93.0
ALLSPORT 5	6.7	93.0	8.3	91.7	6.7	93.0	6.7	93.3
FUTURA 2500	13.3	86.7	13.3	86.7	8.3	91.3	8.3	91.3
SPR SPREADING RYEGRASS OVERSEEDING MIX	16.7	83.3	8.3	91.7	8.3	91.7	6.7	93.3
CHAMPION GQ	16.7	83.3	11.7	88.3	6.7	93.3	8.3	91.7
PPG-PR-308	13.3	86.7	6.7	93.3	11.7	88.3	11.7	88.3
LTP-3-PR BLEND	18.3	81.7	11.7	88.3	10.0	90.0	16.7	83.3
FUTURA 3000	18.3	81.7	13.3	86.7	10.0	90.0	16.7	83.3
NATURAL KNIT	15.0	85.0	10.0	90.0	5.0	95.0	8.3	91.7
RINGLES	25.0	75.0	11.7	88.3	8.3	91.7	15.0	85.0
PROSPORT 4	15.0	85.0	13.3	86.7	10.0	90.0	8.3	91.7
IRFL-2-11	16.7	83.3	15.0	85.0	6.7	93.0	13.3	86.3
SUN	23.3	76.7	16.7	83.3	11.7	88.3	16.7	83.3
TRANSIST 2600	6.7	93.3	5.0	95.0	5.0	94.7	0.0	99.0
BREAKOUT	10.0	90.0	6.7	93.0	5.0	95.0	3.3	96.3
SABRE III	16.7	83.3	8.3	91.7	11.7	88.3	10.0	90.0
LBP-PT-601	85.0	15.0	65.0	35.0	66.7	33.3	56.7	43.3
LSD VALUE	10.3	10.1	9.1	8.9	7.2	6.9	7.4	7.1
C.V. (%)	45.0	8.0	52.7	6.6	50.7	5.1	50.0	5.2

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

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

TABLE 6B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LAS CRUCES, NM (NEW MEXICO STATE UNIVERSITY G.C.) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017							
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	3/10	3/10	3/21	3/21	4/4	4/4	4/18	4/18
CS-PRX	3.3	96.3	99.0	0.0	99.0	0.0	99.0	0.0
LANDMARK WINTERSEED 3 BLEND	1.7	97.7	97.7	1.7	94.3	5.0	96.0	3.3
BRIGHTSTAR SLT	5.0	94.7	96.3	3.3	99.0	0.0	99.0	0.0
LANDMARK WINTERSEED 5 BLEND	1.7	97.7	99.0	0.0	99.0	0.0	99.0	0.0
STELLAR 3GL	5.0	94.7	96.3	3.3	99.0	0.0	99.0	0.0
COMMANDER ST	1.7	97.7	97.7	1.7	96.3	3.3	99.0	0.0
LCP-186	1.7	97.7	93.0	6.7	93.0	6.7	97.7	1.7
PH.D.	5.0	94.7	96.3	3.3	93.0	6.7	97.7	1.7
LINE DRIVE II	1.7	97.7	97.7	1.7	93.0	6.7	97.7	1.7
ALLSPORT 5	3.3	96.0	97.7	1.7	92.7	6.7	97.7	1.7
FUTURA 2500	5.0	94.7	96.3	3.3	93.0	6.7	97.7	1.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	5.0	95.0	96.3	3.3	89.3	10.0	96.0	3.3
CHAMPION GQ	5.0	95.0	94.3	5.0	99.0	0.0	99.0	0.0
PPG-PR-308	6.7	93.3	93.0	6.7	94.3	5.0	97.7	1.7
LTP-3-PR BLEND	6.7	93.3	99.0	0.0	96.3	3.3	99.0	0.0
FUTURA 3000	6.7	93.3	96.3	3.3	94.3	5.0	97.7	1.7
NATURAL KNIT	3.3	96.3	97.7	1.7	93.0	6.7	97.7	1.7
RINGLES	5.0	94.7	91.3	8.3	92.7	6.7	97.7	1.7
PROSPORT 4	6.7	93.3	96.3	3.3	93.0	6.7	97.7	1.7
IRFL-2-11	3.3	96.3	94.7	5.0	80.0	20.0	89.7	10.0
SUN	6.7	93.3	97.7	1.7	97.7	1.7	99.0	0.0
TRANSIST 2600	0.0	99.0	91.7	8.3	83.3	16.7	95.0	5.0
BREAKOUT	0.0	99.0	91.7	8.3	86.7	13.3	96.3	3.3
SABRE III	3.3	96.3	78.3	21.7	78.3	21.7	91.7	8.3
LBP-PT-601	5.0	45.0	68.3	31.7	76.7	23.3	91.7	8.3
LSD VALUE	8.2	4.4	8.1	8.7	15.5	16.2	5.4	6.3
C.V. (%)	78.5	3.2	5.3	98.3	8.2	108.5	2.9	134.9

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

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

TABLE 6B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LAS CRUCES, NM (NEW MEXICO STATE UNIVERSITY G.C.) 1/
2016-17 DATA

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

NAME	PERCENT EARLY ESTABLISHMENT	PLOT COLOR WINTER	LEAF TEXTURE WINTER	GROWTH */ RATING WINTER	GROWTH MEASUREMENT WINTER	WINTER COLOR	GENETIC COLOR	GROWTH */ RATING SPRING	GROWTH MEASUREMENT SPRING	SPRING DENSITY	LEAF TEXTURE SPRING
CS-PRX	78.3	7.0	8.0	2.7	21.0	7.0	7.7	2.3	21.7	8.0	7.7
LANDMARK WINTERSEED 3 BLEND	80.0	6.7	8.0	2.7	20.0	6.0	7.0	2.7	26.0	8.0	8.0
BRIGHTSTAR SLT	78.3	6.7	8.0	2.7	21.0	6.0	6.3	2.3	24.7	7.7	8.0
LANDMARK WINTERSEED 5 BLEND	76.7	6.3	7.7	2.7	23.3	5.0	6.0	2.7	22.3	8.0	7.7
STELLAR 3GL	73.3	7.7	7.7	3.0	21.0	6.7	7.3	2.3	24.3	8.3	8.0
COMMANDER ST	68.3	7.0	7.7	3.3	24.3	6.0	6.3	2.7	23.7	7.3	7.7
LCP-186	71.7	6.3	8.0	3.3	23.3	5.7	6.0	2.7	23.0	8.0	8.0
PH.D.	66.7	8.3	8.0	2.7	22.3	8.3	8.3	2.7	24.0	8.3	8.0
LINE DRIVE II	80.0	5.7	8.0	3.3	27.7	4.3	5.0	3.3	25.3	7.7	8.0
ALLSPORT 5	70.0	6.3	8.0	3.3	30.3	5.0	5.7	2.7	26.3	7.3	8.0
FUTURA 2500	71.7	6.0	7.0	3.3	28.7	6.3	6.3	3.3	28.0	7.7	7.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	75.0	6.7	8.0	2.3	21.0	6.0	6.3	3.0	20.3	8.0	8.3
CHAMPION GQ	70.0	7.7	8.0	2.3	25.7	6.3	7.0	3.3	25.3	8.0	8.0
PPG-PR-308	66.7	7.3	8.0	3.0	23.3	8.0	8.3	2.7	24.7	8.3	7.7
LTP-3-PR BLEND	71.7	7.3	8.0	3.0	22.3	7.0	7.0	2.7	25.0	8.0	8.0
FUTURA 3000	71.7	6.7	8.3	2.7	24.3	6.3	6.7	3.3	25.3	8.3	8.0
NATURAL KNIT	75.0	6.0	8.0	2.7	23.3	5.3	6.0	3.0	23.3	7.7	7.7
RINGLES	70.0	7.0	8.0	2.7	25.7	6.0	6.0	3.0	22.7	8.3	8.0
PROSPORT 4	66.7	5.0	8.0	3.3	26.7	3.0	6.0	3.0	25.0	7.0	8.0
IRFL-2-11	70.0	5.7	6.3	3.3	29.0	6.0	6.3	3.3	25.0	6.0	7.0
SUN	73.3	5.0	8.0	2.3	23.3	4.7	6.0	3.0	23.7	7.3	8.0
TRANSIST 2600	73.3	6.7	5.0	5.0	39.0	5.3	5.7	4.7	37.0	5.0	4.3
BREAKOUT	63.3	5.7	5.3	5.0	38.0	4.3	4.7	4.0	24.3	4.3	5.7
SABRE III	63.3	5.0	8.0	2.7	31.0	3.7	5.0	3.0	25.3	5.0	6.0
LBP-PT-601	1.7	2.3	6.3	3.0	30.0	1.7	5.3	3.7	25.3	5.0	6.7
LSD VALUE	16.0	2.1	0.8	0.9	11.2	2.6	1.2	1.3	9.7	0.9	1.3
C.V. (%)	14.6	18.6	6.7	17.2	21.8	25.5	11.9	21.1	16.3	8.3	10.0

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.

*/ GROWTH RATE USED 1-5, 5=TALLEST.

TABLE 6B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LAS CRUCES, NM (NEW MEXICO STATE UNIVERSITY G.C.) 1/
2016-17 DATA

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

NAME	QUALITY RATINGS IN FALL 2016				QUALITY RATINGS IN WINTER 2017				QUALITY IN SPRING/SUMMER 2017				QUALITY MEAN
	11/9	11/22	12/6	12/22	1/9	1/22	2/7	2/22	3/10	3/21	4/4	4/18	
CS-PRX	7.0	7.7	7.3	7.3	7.7	7.0	8.7	7.7	8.3	9.0	9.0	9.0	8.0
LANDMARK WINTERSEED 3 BLEND	7.3	7.3	8.0	8.0	8.0	6.7	8.0	8.0	8.0	8.7	8.7	8.7	7.9
BRIGHTSTAR SLT	7.7	6.7	7.3	7.7	7.7	6.0	8.0	8.0	8.0	8.7	9.0	8.7	7.8
LANDMARK WINTERSEED 5 BLEND	7.3	6.3	8.0	6.3	7.3	7.0	8.3	8.3	8.0	9.0	9.0	8.7	7.8
STELLAR 3GL	6.7	7.3	7.7	7.3	7.3	6.3	8.3	8.3	8.0	8.7	9.0	8.3	7.8
COMMANDER ST	7.0	6.3	7.7	7.7	8.0	7.0	7.0	7.3	8.0	8.3	9.0	8.7	7.7
LCP-186	7.0	7.3	7.7	7.7	7.3	6.0	8.0	7.7	8.3	8.7	8.3	8.3	7.7
PH.D.	7.0	6.7	7.7	7.7	8.0	6.3	8.0	7.3	8.0	8.3	8.7	8.3	7.7
LINE DRIVE II	8.0	6.7	7.7	7.3	7.7	6.3	6.7	7.3	7.7	8.3	8.3	8.0	7.5
ALLSPORT 5	6.3	7.3	7.3	7.0	7.0	6.0	7.0	7.0	8.0	8.7	8.3	8.3	7.4
FUTURA 2500	8.0	6.3	7.3	7.0	7.7	5.3	6.7	6.7	7.7	8.7	8.7	8.3	7.4
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.3	6.7	7.3	7.7	7.3	5.3	6.7	7.7	8.0	8.7	8.0	8.3	7.4
CHAMPION GQ	6.7	6.3	7.0	6.7	7.0	5.7	7.7	6.7	8.0	8.3	8.7	8.3	7.3
PPG-PR-308	6.3	6.7	7.0	7.0	7.0	6.0	8.0	7.3	7.7	8.0	8.7	8.3	7.3
LTP-3-PR BLEND	7.0	6.3	6.3	6.7	6.7	6.0	7.7	6.3	7.3	9.0	8.3	8.3	7.2
FUTURA 3000	8.0	5.7	6.7	7.0	6.3	5.3	7.0	6.0	7.3	8.3	8.7	8.3	7.1
NATURAL KNIT	7.3	6.0	6.7	6.7	7.0	5.3	6.3	6.7	7.3	8.7	8.3	8.3	7.1
RINGLES	7.3	6.0	7.0	6.7	6.7	5.0	6.3	6.7	7.0	8.0	8.3	7.7	6.9
PROSPORT 4	5.7	6.3	6.3	6.3	6.3	5.0	7.0	6.7	7.7	8.0	8.3	8.0	6.8
IRFL-2-11	6.3	6.3	6.3	6.0	6.7	5.0	7.7	6.0	7.3	7.7	7.0	7.7	6.7
SUN	6.7	6.7	6.3	6.0	6.0	5.0	6.0	5.7	6.7	8.7	8.7	8.0	6.7
TRANSIST 2600	6.3	7.3	7.3	6.7	7.7	6.3	6.3	7.0	6.7	6.3	4.7	6.0	6.6
BREAKOUT	7.0	7.3	8.7	7.0	7.7	6.0	5.0	7.0	6.0	6.3	3.3	5.0	6.4
SABRE III	7.3	7.0	6.7	6.0	5.0	5.3	5.0	6.0	7.0	6.0	4.3	6.0	6.0
LBP-PT-601	5.3	4.7	2.0	3.0	2.0	2.0	2.3	3.0	3.0	4.3	4.3	4.0	3.3
LSD VALUE	2.7	3.6	1.7	2.0	1.9	1.7	1.5	1.7	1.1	1.1	1.1	0.9	0.8
C.V. (%)	14.3	17.3	14.5	15.3	16.2	16.6	13.5	14.1	9.1	8.6	9.2	7.2	7.7

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 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT OKLAHOMA UNIVERSITY, OK (LAKESIDE GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION 2016							PERCENT COVER OF LIVING GRASSES IN WINTER 2017					
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	OVERSEED GRASS	OVERSEED GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	10/14	10/14	10/28	10/28	11/22	12/5	12/16	1/16	1/16	2/1	2/1	3/9	3/9
BRIGHTSTAR SLT	60.0	40.0	60.0	40.0	45.0	43.3	45.0	20.0	80.0	20.0	80.0	18.3	81.7
NATURAL KNIT	51.7	48.3	53.3	46.7	46.7	46.7	46.7	21.7	78.3	26.7	73.3	21.7	78.3
ALLSPORT 5	61.7	38.3	60.0	40.0	46.7	48.3	46.7	26.7	73.3	28.3	71.7	25.0	75.0
RINGLES	60.0	40.0	60.0	40.0	40.0	41.7	43.3	26.7	73.3	26.7	73.3	23.3	76.7
SUN	60.0	40.0	58.3	41.7	43.3	41.7	43.3	21.7	78.3	31.7	68.3	30.0	70.0
CHAMPION GQ	61.7	38.3	61.7	38.3	45.0	48.3	46.7	26.7	73.3	28.3	71.7	25.0	75.0
LINE DRIVE II	61.7	38.3	60.0	40.0	43.3	45.0	46.7	25.0	75.0	26.7	73.3	23.3	76.7
COMMANDER ST	53.3	46.7	55.0	45.0	48.3	48.3	48.3	25.0	75.0	23.3	76.7	20.0	80.0
FUTURA 3000	61.7	38.3	60.0	40.0	45.0	46.7	46.7	21.7	78.3	25.0	75.0	16.7	83.3
LANDMARK WINTERSEED 3 BLEND	60.0	40.0	60.0	40.0	43.3	45.0	45.0	20.0	80.0	33.3	66.7	30.0	70.0
PPG-PR-308	56.7	43.3	55.0	45.0	41.7	38.3	40.0	23.3	76.7	30.0	70.0	31.7	68.3
PROSPORT 4	65.0	35.0	63.3	36.7	40.0	40.0	41.7	26.7	73.3	35.0	65.0	28.3	71.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	66.7	33.3	63.3	36.7	40.0	41.7	38.3	21.7	78.3	28.3	71.7	25.0	75.0
LANDMARK WINTERSEED 5 BLEND	56.7	43.3	56.7	43.3	41.7	41.7	41.7	36.7	63.3	41.7	58.3	30.0	70.0
STELLAR 3GL	53.3	46.7	55.0	45.0	43.3	38.3	40.0	25.0	75.0	46.7	53.3	36.7	63.3
TRANSIST 2600	60.0	40.0	60.0	40.0	43.3	46.7	48.3	30.0	70.0	18.3	81.7	18.3	81.7
CS-PRX	68.3	31.7	63.3	36.7	43.3	43.3	41.7	18.3	81.7	30.0	70.0	26.7	73.3
PH.D.	65.0	35.0	61.7	38.3	43.3	41.7	41.7	28.3	71.7	36.7	63.3	35.0	65.0
LCP-186	65.0	35.0	61.7	38.3	45.0	45.0	45.0	26.7	73.3	43.3	56.7	43.3	56.7
BREAKOUT	56.7	43.3	55.0	45.0	45.0	46.7	46.7	28.3	71.7	26.7	73.3	21.7	78.3
FUTURA 2500	65.0	35.0	63.3	36.7	36.7	35.0	33.3	48.3	51.7	46.7	53.3	45.0	55.0
IRFL-2-11	63.3	36.7	61.7	38.3	36.7	40.0	41.7	31.7	68.3	50.0	50.0	43.3	56.7
SABRE III	65.0	35.0	63.3	36.7	38.3	36.7	38.3	20.0	80.0	23.3	76.7	15.0	85.0
LTP-3-PR BLEND	63.3	36.7	61.7	38.3	33.3	26.7	28.3	45.0	55.0	56.7	43.3	48.3	51.7
LBP-PT-601	99.0	0.0	99.0	0.0	0.0	0.0	0.0	.	0.0	88.3	11.7	65.0	35.0
LSD VALUE	11.1	11.0	8.6	8.6	11.4	16.2	11.5	34.3	19.3	29.2	29.2	33.2	33.2
C.V. (%)	10.8	18.0	8.9	14.1	17.2	22.5	17.4	44.4	17.0	44.5	23.8	49.8	21.2

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

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

TABLE 7B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT OKLAHOMA UNIVERSITY, OK (LAKESIDE GOLF COURSE) 1/
2016-17 DATA

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

PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017

NAME	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
	4/3	4/3	4/14	4/14	4/21	4/21	5/2	5/2	5/10	5/10
BRIGHTSTAR SLT	25.0	63.3	38.3	58.3	33.3	65.0	41.7	58.3	43.3	56.7
NATURAL KNIT	15.0	78.3	30.0	68.3	30.0	70.0	36.7	61.7	41.7	58.3
ALLSPORT 5	10.0	80.0	26.7	71.7	28.3	70.0	36.7	58.3	43.3	55.0
RINGLES	16.7	70.0	33.3	61.7	28.3	70.0	35.0	61.7	43.3	53.3
SUN	11.7	78.3	28.3	66.7	28.3	71.7	35.0	63.3	43.3	55.0
CHAMPION GQ	16.7	66.7	31.7	60.0	30.0	68.3	38.3	60.0	41.7	56.7
LINE DRIVE II	15.0	73.3	26.7	68.3	25.0	73.3	33.3	63.3	40.0	56.7
COMMANDER ST	13.3	75.0	38.3	58.3	30.0	70.0	36.7	63.3	38.3	61.7
FUTURA 3000	20.0	65.0	38.3	55.0	30.0	70.0	38.3	61.7	40.0	58.3
LANDMARK WINTERSEED 3 BLEND	26.7	58.3	38.3	51.7	33.3	61.7	36.7	58.3	41.7	58.3
PPG-PR-308	16.7	73.3	40.0	50.0	33.3	66.7	38.3	56.7	40.0	53.3
PROSPORT 4	11.7	76.7	35.0	60.0	33.3	66.7	38.3	60.0	36.7	60.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	21.7	65.0	35.0	56.7	36.7	61.7	40.0	58.3	45.0	51.7
LANDMARK WINTERSEED 5 BLEND	16.7	61.7	40.0	50.0	35.0	56.7	45.0	55.0	46.7	51.7
STELLAR 3GL	13.3	66.7	33.3	56.7	33.3	63.3	40.0	58.3	40.0	53.3
TRANSIST 2600	13.3	76.7	28.3	66.7	35.0	63.3	40.0	55.0	46.7	50.0
CS-PRX	20.0	65.0	35.0	56.7	33.3	63.3	43.3	56.7	46.7	50.0
PH.D.	25.0	56.7	36.7	56.7	30.0	65.0	41.7	56.7	45.0	51.7
LCP-186	23.3	50.0	38.3	53.3	30.0	61.7	38.3	55.0	43.3	51.7
BREAKOUT	13.3	71.7	38.3	56.7	33.3	66.7	36.7	56.7	41.7	55.0
FUTURA 2500	20.0	48.3	36.7	48.3	36.7	53.3	46.7	50.0	50.0	46.7
IRFL-2-11	26.7	51.7	38.3	53.3	33.3	61.7	38.3	56.7	45.0	51.7
SABRE III	21.7	61.7	31.7	65.0	33.3	66.7	41.7	60.0	43.3	56.7
LTP-3-PR BLEND	15.0	56.7	45.0	38.3	43.3	51.7	45.0	50.0	46.7	46.7
LBP-PT-601	36.7	28.3	53.3	30.0	48.3	38.3	53.3	40.0	53.3	38.3
LSD VALUE	10.7	34.9	11.3	18.8	13.9	17.7	11.1	14.1	11.7	11.4
C.V. (%)	32.0	23.7	17.0	17.4	18.7	13.7	13.2	11.1	11.3	10.6

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

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

TABLE 7B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT OKLAHOMA UNIVERSITY, OK (LAKESIDE GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017									
	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED	BERMUDA	OVERSEED
	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS	GRASS
	5/24	5/24	6/6	6/6	6/14	6/14	6/22	6/22	7/23	7/23
BRIGHTSTAR SLT	41.7	58.3	53.3	46.7	45.0	55.0	55.0	45.0	75.0	20.0
NATURAL KNIT	46.7	56.7	40.3	43.3	36.7	63.3	46.7	53.3	68.3	23.3
ALLSPORT 5	45.0	55.0	53.3	46.7	46.7	53.3	63.3	36.7	78.3	16.7
RINGLES	43.3	56.7	53.3	46.7	51.7	48.3	60.0	40.0	73.3	20.0
SUN	45.0	55.0	61.7	41.7	41.7	58.3	55.0	45.0	75.0	21.7
CHAMPION GQ	41.7	58.3	56.7	43.3	45.0	55.0	61.7	38.3	78.3	18.3
LINE DRIVE II	38.3	61.7	53.3	46.7	53.3	45.0	55.0	45.0	80.0	20.0
COMMANDER ST	48.3	51.7	60.0	40.0	48.3	50.0	61.7	38.3	86.7	6.7
FUTURA 3000	41.7	58.3	58.3	41.7	51.7	48.3	58.3	41.7	80.0	13.3
LANDMARK WINTERSEED 3 BLEND	48.3	51.7	58.3	41.7	48.3	51.7	56.7	43.3	80.0	13.3
PPG-PR-308	46.7	53.3	61.7	38.3	46.7	51.7	58.3	41.7	85.0	13.3
PROSPORT 4	43.3	56.7	58.3	41.7	46.7	51.7	55.0	43.3	76.7	18.3
SPR SPREADING RYEGRASS OVERSEEDING MIX	41.7	58.3	56.7	43.3	50.0	48.3	53.3	46.7	85.0	10.0
LANDMARK WINTERSEED 5 BLEND	50.0	46.7	61.7	38.3	53.3	45.0	63.3	35.0	81.7	15.0
STELLAR 3GL	43.3	56.7	60.0	43.3	51.7	46.7	60.0	40.0	80.0	15.0
TRANSIST 2600	55.0	45.0	80.0	18.3	70.0	20.0	88.3	6.7	99.0	0.0
CS-PRX	46.7	53.3	56.7	43.3	41.7	53.3	60.0	40.0	78.3	18.3
PH.D.	43.3	56.7	55.0	45.0	61.7	36.7	58.3	40.0	81.7	11.7
LCP-186	46.7	51.7	55.0	45.0	56.7	40.0	65.0	35.0	81.7	13.3
BREAKOUT	51.7	48.3	85.0	10.0	73.3	10.0	81.7	5.0	99.0	0.0
FUTURA 2500	53.3	43.3	66.7	33.3	70.0	28.3	76.7	23.3	90.0	8.3
IRFL-2-11	48.3	50.0	68.3	31.7	73.3	20.0	78.3	15.0	96.3	3.3
SABRE III	48.3	51.7	75.0	11.7	63.3	25.0	78.3	6.7	98.7	0.0
LTP-3-PR BLEND	48.3	50.0	70.0	30.0	58.3	35.0	63.3	30.0	88.3	6.7
LBP-PT-601	61.7	35.0	81.7	11.7	83.3	8.3	90.0	5.0	99.0	0.0
LSD VALUE	13.4	17.7	17.2	12.3	20.9	21.4	14.6	12.3	11.4	12.4
C.V. (%)	13.3	14.5	15.7	21.0	21.1	30.3	13.8	23.7	8.3	56.8

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

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

TABLE 7B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT OKLAHOMA UNIVERSITY, OK (LAKESIDE GOLF COURSE) 1/
2016-17 DATA

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

NAME	PERCENT EARLY ESTABLISHMENT	PLOT COLOR WINTER	LEAF TEXTURE WINTER	GROWTH */ RATE WINTER	GENETIC COLOR	GROWTH */ RATE SPRING	SPRING DENSITY	SPRING LEAF TEXTURE
BRIGHTSTAR SLT	11.7	5.0	6.3	2.3	7.7	3.7	7.3	7.0
NATURAL KNIT	11.7	5.3	7.0	2.3	8.0	3.3	6.7	6.7
ALLSPORT 5	11.7	4.7	7.0	4.0	6.3	4.3	6.3	7.0
RINGLES	13.3	5.0	6.7	2.7	7.7	4.0	6.7	6.7
SUN	13.3	5.3	7.0	2.0	7.3	2.7	7.0	7.0
CHAMPION GQ	10.0	4.7	6.7	2.7	7.3	4.0	6.7	6.7
LINE DRIVE II	10.0	5.0	7.0	2.3	6.7	3.0	6.3	7.0
COMMANDER ST	15.0	5.0	7.0	2.3	6.7	3.7	7.7	7.3
FUTURA 3000	10.0	5.0	6.7	3.0	7.7	3.7	7.0	6.7
LANDMARK WINTERSEED 3 BLEND	11.7	5.0	7.0	2.0	8.0	2.7	7.7	7.3
PPG-PR-308	11.7	5.0	7.0	2.3	8.0	3.7	7.0	7.0
PROSPORT 4	10.0	4.7	6.7	2.7	6.7	3.7	5.7	7.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	10.0	5.0	7.0	1.7	7.7	2.3	6.7	6.7
LANDMARK WINTERSEED 5 BLEND	13.3	5.0	7.0	3.3	7.7	4.3	8.3	8.0
STELLAR 3GL	13.3	5.0	7.0	2.3	7.7	3.3	7.3	7.7
TRANSIST 2600	10.0	4.3	7.0	2.0	5.7	3.0	7.3	6.7
CS-PRX	11.7	5.0	6.7	2.0	8.0	3.0	5.7	6.7
PH.D.	10.0	4.7	7.0	2.0	8.0	3.0	6.7	6.7
LCP-186	10.0	4.7	6.7	2.3	7.7	3.3	6.3	7.0
BREAKOUT	10.0	5.0	6.7	3.0	5.0	4.0	7.3	7.7
FUTURA 2500	11.7	4.7	7.0	2.7	7.0	4.0	7.0	7.0
IRFL-2-11	10.0	4.3	7.0	1.7	7.0	2.3	7.0	7.0
SABRE III	8.3	4.3	6.3	1.3	5.3	3.3	7.7	7.3
LTP-3-PR BLEND	10.0	5.0	7.0	2.3	7.7	3.3	6.7	7.0
LBP-PT-601	0.0	4.0	6.0	2.0	5.7	2.3	7.0	7.3
LSD VALUE	3.1	0.8	1.4	2.1	0.8	2.6	1.4	1.3
C.V. (%)	18.0	7.8	6.1	33.1	7.4	27.9	10.1	7.3

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.

*/ GROWTH RATE USED 1-5, 5=TALLEST.

TABLE 7B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT OKLAHOMA UNIVERSITY, OK (LAKESIDE GOLF COURSE) 1/
2016-17 DATA

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

NAME	FALL QUALITY RATINGS IN 2016					WINTER QUALITY RATINGS IN 2016-17				
	10/14	10/28	11/22	12/5	12/16	12/27	1/16	2/1	2/24	3/9
BRIGHTSTAR SLT	6.0	6.0	6.0	6.3	6.3	6.7	7.0	5.3	5.7	6.7
NATURAL KNIT	6.3	6.7	6.3	6.3	6.7	6.3	6.3	5.7	6.3	6.7
ALLSPORT 5	6.3	6.3	6.0	6.3	6.3	6.7	6.7	5.7	6.0	6.3
RINGLES	6.3	6.3	6.0	6.0	6.0	6.3	6.7	6.0	6.0	6.0
SUN	6.3	6.3	6.0	7.0	6.3	6.3	6.7	5.0	6.3	6.3
CHAMPION GQ	6.0	6.0	6.0	6.7	5.7	6.3	6.3	5.0	6.0	6.3
LINE DRIVE II	6.0	6.0	6.0	6.7	6.0	6.7	6.7	5.7	5.7	5.7
COMMANDER ST	6.0	6.0	6.0	6.0	6.0	6.3	6.3	5.0	5.3	5.7
FUTURA 3000	6.0	6.0	6.0	5.7	5.3	6.7	6.7	5.0	6.0	6.0
LANDMARK WINTERSEED 3 BLEND	6.0	6.0	6.0	5.3	6.0	6.7	7.0	4.7	5.7	5.7
PPG-PR-308	6.0	6.0	6.0	5.7	5.7	6.7	6.7	4.7	5.7	5.7
PROSPORT 4	6.0	6.0	6.0	5.7	5.3	6.3	6.3	5.0	5.7	5.3
SPR SPREADING RYEGRASS OVERSEEDING MIX	6.0	6.0	5.7	6.0	6.0	6.3	6.7	5.0	5.7	5.7
LANDMARK WINTERSEED 5 BLEND	6.0	6.0	5.7	6.0	6.0	6.0	6.3	5.3	5.7	6.3
STELLAR 3GL	6.0	6.3	5.7	5.3	5.3	6.3	6.7	4.7	5.3	5.3
TRANSIST 2600	6.3	6.0	6.0	6.0	6.0	6.7	6.7	5.3	6.0	6.0
CS-PRX	6.0	6.0	5.7	6.0	5.3	6.7	6.7	4.3	5.0	5.3
PH.D.	6.0	6.0	5.7	5.7	5.7	6.7	6.7	4.3	5.3	5.3
LCP-186	6.0	6.0	6.0	6.0	5.3	6.0	6.0	4.3	5.0	5.0
BREAKOUT	6.0	6.0	5.0	5.0	5.7	6.3	6.7	5.7	5.7	5.3
FUTURA 2500	6.0	6.0	6.0	5.3	4.3	6.0	5.7	4.3	4.7	5.0
IRFL-2-11	6.0	6.0	5.7	5.0	5.0	6.7	6.3	3.3	4.3	4.3
SABRE III	6.0	6.0	4.7	4.0	4.7	6.0	6.3	5.3	5.3	5.3
LTP-3-PR BLEND	6.0	6.0	5.7	5.7	4.7	6.0	5.7	3.7	4.0	4.3
LBP-PT-601	6.0	5.3	2.0	2.7	2.3	.	.	3.0	3.7	3.3
LSD VALUE	0.8	0.6	0.7	1.0	1.9	2.2	1.6	1.4	2.4	1.9
C.V. (%)	4.1	4.5	7.7	11.2	17.8	9.2	8.5	15.9	17.6	16.4

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

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

TABLE 7B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT OKLAHOMA UNIVERSITY, OK (LAKESIDE GOLF COURSE) 1/
2016-17 DATA

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

NAME	SPRING AND SUMMER QUALITY RATINGS 2017										MEAN
	4/6	4/14	4/21	5/2	5/10	5/24	6/6	6/14	6/22	7/23	
BRIGHTSTAR SLT	7.3	7.7	7.7	8.0	7.0	8.0	7.0	7.0	6.3	5.0	6.7
NATURAL KNIT	7.7	8.0	7.7	7.7	7.7	7.7	7.0	7.3	6.7	3.7	6.7
ALLSPORT 5	7.0	8.0	7.7	7.3	6.3	7.7	6.0	6.7	6.0	5.0	6.5
RINGLES	7.0	7.3	7.7	7.7	6.7	8.3	6.3	7.0	6.0	5.0	6.5
SUN	6.7	7.3	7.3	7.0	6.0	7.7	6.0	7.0	6.7	4.7	6.5
CHAMPION GQ	7.0	6.3	7.0	7.0	6.3	8.0	7.0	6.7	6.3	5.0	6.4
LINE DRIVE II	6.3	7.0	7.0	7.0	6.3	8.0	6.7	6.3	6.7	5.3	6.4
COMMANDER ST	6.7	7.3	7.7	7.7	7.3	7.7	6.7	5.7	5.3	4.3	6.3
FUTURA 3000	7.0	6.7	6.7	7.3	6.7	8.0	7.0	7.0	6.0	4.7	6.3
LANDMARK WINTERSEED 3 BLEND	6.7	6.0	6.7	7.0	6.7	8.0	6.7	6.7	5.7	4.3	6.2
PPG-PR-308	7.7	6.3	7.0	6.7	5.7	7.7	6.0	6.0	6.3	5.3	6.2
PROSPORT 4	6.3	6.7	7.0	7.3	6.3	8.0	6.7	6.3	6.0	5.0	6.2
SPR SPREADING RYEGRASS OVERSEEDING MIX	6.3	6.0	6.7	7.3	6.0	8.0	6.7	6.3	6.3	5.0	6.2
LANDMARK WINTERSEED 5 BLEND	7.0	6.3	6.7	7.0	6.7	7.0	5.7	6.0	5.0	4.7	6.1
STELLAR 3GL	7.0	6.7	7.0	6.7	5.7	7.7	5.7	6.7	6.0	5.0	6.1
TRANSIST 2600	6.7	7.3	7.0	6.7	5.7	6.3	4.0	4.0	5.3	7.0	6.1
CS-PRX	6.7	6.7	6.7	6.7	5.7	7.7	5.7	5.7	6.0	5.7	6.0
PH.D.	6.0	6.7	6.3	6.7	5.7	8.0	6.3	5.7	5.3	4.3	5.9
LCP-186	6.3	6.7	6.3	6.0	6.0	7.3	5.7	5.7	5.7	4.7	5.8
BREAKOUT	6.7	7.0	7.0	6.3	4.3	5.0	3.7	3.7	4.0	7.0	5.6
FUTURA 2500	6.3	5.7	6.0	6.3	5.3	6.7	6.0	5.7	6.0	5.0	5.6
IRFL-2-11	5.7	6.7	6.3	6.7	5.7	6.7	5.7	5.3	4.7	6.0	5.6
SABRE III	6.3	7.3	7.0	7.3	6.7	7.0	3.0	3.3	4.3	6.3	5.6
LTP-3-PR BLEND	5.7	5.0	5.3	5.7	5.0	7.0	5.0	4.7	4.7	4.7	5.2
LBP-PT-601	4.7	5.0	5.3	5.7	5.3	6.3	4.0	4.3	5.0	6.7	4.5
LSD VALUE	1.7	2.3	2.5	2.7	2.4	1.1	1.1	1.6	1.5	1.1	0.9
C.V. (%)	11.9	15.1	13.9	13.8	16.5	8.5	12.2	15.9	13.8	12.6	8.1

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

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

TABLE 8B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT COLLEGE STATION, TX (TEXAS A&M UNIVERSITY CAMPUS COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD 2016						PERCENT COVER WINTER	
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
BRIGHTSTAR SLT	6.7	91.7	6.7	91.7	0.7	96.3	3.3	96.0
LINE DRIVE II	5.0	95.0	6.7	91.7	3.7	91.7	5.0	94.7
PPG-PR-308	6.7	93.3	1.0	95.0	1.7	96.0	5.0	94.7
RINGLES	8.3	90.0	7.0	88.3	3.3	91.3	5.0	94.3
STELLAR 3GL	6.7	91.7	3.7	93.3	0.7	96.3	3.3	96.0
CHAMPION GQ	10.0	88.3	5.0	93.3	3.7	90.0	8.3	91.3
CS-PRX	8.3	88.3	3.7	90.0	5.3	88.3	8.3	91.3
LANDMARK WINTERSEED 3 BLEND	11.7	86.7	3.7	91.7	1.7	96.0	3.3	96.0
NATURAL KNIT	11.7	83.3	6.7	90.0	3.3	92.7	6.7	93.3
SUN	5.0	95.0	2.3	93.3	1.7	96.0	1.7	97.7
FUTURA 3000	11.7	86.7	10.0	85.0	5.3	88.3	11.7	88.3
LANDMARK WINTERSEED 5 BLEND	11.7	86.7	5.3	90.0	6.7	88.0	10.0	89.7
LCP-186	11.7	88.3	3.7	95.0	5.3	90.0	3.3	96.3
LTP-3-PR BLEND	8.3	88.3	6.7	91.7	3.3	93.0	5.0	95.0
PH.D.	15.0	83.3	10.0	85.0	8.7	81.3	13.3	86.3
PROSPORT 4	6.7	93.3	3.7	93.3	5.0	90.0	5.0	95.0
ALLSPORT 5	11.7	86.7	3.7	93.3	3.7	91.3	15.0	85.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	8.3	85.0	2.3	93.3	2.0	94.7	5.0	94.7
COMMANDER ST	8.3	91.7	3.7	91.7	0.3	97.7	3.3	96.0
IRFL-2-11	16.7	83.3	8.7	86.7	5.0	86.7	6.7	93.3
FUTURA 2500	11.7	88.3	10.0	81.7	6.7	86.7	8.3	91.7
BREAKOUT	11.7	85.0	5.0	90.0	1.7	96.0	5.0	94.7
TRANSIST 2600	10.0	86.7	6.7	90.0	3.7	93.3	1.7	97.7
SABRE III	18.3	78.3	13.3	83.3	6.7	86.7	16.7	83.3
LBP-PT-601	73.3	8.3	50.0	20.0	33.3	43.3	56.7	40.0
LSD VALUE	7.3	7.9	6.5	6.2	5.3	9.7	9.1	8.4
C.V. (%)	38.9	6.3	56.5	4.8	69.9	6.9	68.3	6.1

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

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

TABLE 8B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT COLLEGE STATION, TX (TEXAS A&M UNIVERSITY CAMPUS COURSE) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017									
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
BRIGHTSTAR SLT	26.7	73.3	30.0	70.0	46.7	53.3	51.7	48.3	73.3	26.7
LINE DRIVE II	26.7	73.3	30.0	70.0	48.3	51.7	48.3	51.7	76.7	23.3
PPG-PR-308	30.0	70.0	31.7	68.3	41.7	58.3	55.0	45.0	71.7	28.3
RINGLES	25.0	75.0	35.0	65.0	45.0	55.0	48.3	51.7	83.3	16.7
STELLAR 3GL	20.0	80.0	35.0	65.0	40.0	60.0	51.7	48.3	73.3	26.7
CHAMPION GQ	26.7	73.3	36.7	63.3	38.3	61.7	46.7	53.3	86.7	13.3
CS-PRX	23.3	76.7	38.3	61.7	43.3	56.7	55.0	45.0	88.3	11.7
LANDMARK WINTERSEED 3 BLEND	20.0	80.0	28.3	71.7	38.3	61.7	48.3	51.7	76.7	23.3
NATURAL KNIT	25.0	75.0	36.7	63.3	35.0	65.0	48.3	51.7	73.3	26.7
SUN	35.0	65.0	41.7	58.3	51.7	48.3	51.7	48.3	78.3	21.7
FUTURA 3000	30.0	70.0	45.0	55.0	53.3	46.7	50.0	50.0	75.0	25.0
LANDMARK WINTERSEED 5 BLEND	28.3	71.7	36.7	63.3	45.0	55.0	48.3	51.7	75.0	25.0
LCP-186	23.3	76.7	35.0	65.0	48.3	51.7	46.7	53.3	80.0	20.0
LTP-3-PR BLEND	28.3	71.7	36.7	63.3	43.3	56.7	48.3	51.7	75.0	25.0
PH.D.	31.7	68.3	38.3	61.7	51.7	48.3	53.3	46.7	78.3	21.7
PROSPORT 4	28.3	71.7	35.0	65.0	40.0	60.0	51.7	48.3	85.0	15.0
ALLSPORT 5	26.7	73.3	38.3	61.7	45.0	55.0	48.3	51.7	83.3	16.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	25.0	75.0	31.7	68.3	40.0	60.0	50.0	50.0	78.3	21.7
COMMANDER ST	30.0	70.0	35.0	65.0	46.7	53.3	53.3	46.7	85.0	15.0
IRFL-2-11	21.7	78.3	41.7	58.3	55.0	45.0	55.0	45.0	81.7	18.3
FUTURA 2500	36.7	63.3	43.3	56.7	53.3	46.7	56.7	43.3	88.3	11.7
BREAKOUT	26.7	73.3	30.0	70.0	68.3	31.7	86.7	13.3	99.0	1.0
TRANSIST 2600	28.3	71.7	33.3	66.7	55.0	45.0	66.7	33.3	88.3	11.7
SABRE III	41.7	58.3	51.7	48.3	80.0	20.0	88.3	11.7	90.0	10.0
LBP-PT-601	56.7	43.3	51.7	48.3	83.3	16.7	91.7	8.3	91.7	8.3
LSD VALUE	11.0	11.0	11.0	11.0	14.3	14.3	6.8	6.8	4.2	4.2
C.V. (%)	22.5	9.1	16.3	9.6	17.8	17.5	8.2	10.4	3.4	15.1

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

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

TABLE 8B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT COLLEGE STATION, TX (TEXAS A&M UNIVERSITY CAMPUS COURSE) 1/
2016-17 DATA

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

NAME	PERCENT	WINTER	GENETIC	SPRING	SPRING	QUALITY RATINGS			QUALITY RATINGS			QUALITY RATINGS			SPRING/SUMMER	QUALITY	
	EARLY				LEAF	FALL	WINTER	TRANSITION	PERIOD	MEAN							
	ESTABLISHMENT	COLOR	COLOR	DENSITY	TEXTURE	2016	2016-17	2016-17	2016-17	2017	2017	2017	2017	2017	2017	2017	2017
BRIGHTSTAR SLT	73.3	7.3	7.0	6.7	7.0	7.0	6.7	7.3	7.0	7.3	6.7	7.7	7.3	7.0	7.0	7.7	7.2
LINE DRIVE II	86.7	6.7	7.0	6.7	6.3	7.0	7.0	6.7	7.0	6.7	7.3	7.7	8.0	7.0	7.0	7.7	7.2
PPG-PR-308	81.7	7.0	6.7	7.0	6.3	6.7	7.0	7.3	7.3	7.0	6.0	7.7	7.7	7.3	7.0	7.7	7.2
RINGLES	73.3	7.3	7.0	6.7	7.0	6.3	6.3	7.3	7.3	7.3	6.7	7.7	7.7	7.7	7.3	7.7	7.2
STELLAR 3GL	83.3	7.3	8.0	7.3	6.3	7.0	6.3	7.0	7.3	7.0	7.3	7.3	8.0	7.0	7.3	7.7	7.2
CHAMPION GQ	88.3	7.0	7.0	7.0	7.0	6.7	6.3	7.0	6.7	7.3	7.3	7.0	7.3	7.0	7.0	7.0	7.0
CS-PRX	75.0	7.3	6.3	6.7	7.0	6.7	6.3	7.7	7.0	6.7	6.3	7.3	7.3	7.3	7.7	7.0	7.0
LANDMARK WINTERSEED 3 BLEND	93.3	6.7	6.3	6.7	6.7	7.0	6.7	6.3	6.7	7.0	6.7	7.0	7.7	6.7	7.3	7.7	7.0
NATURAL KNIT	73.3	7.0	7.3	7.0	7.7	6.7	6.7	7.0	6.7	7.0	6.7	7.0	7.7	7.3	7.3	7.0	7.0
SUN	86.7	6.7	7.0	6.7	8.0	6.3	6.7	7.0	7.0	7.0	7.0	7.3	7.0	6.7	7.0	7.7	7.0
FUTURA 3000	65.0	6.7	7.0	6.0	7.0	5.7	6.0	7.0	7.0	7.0	6.7	7.7	7.7	7.3	6.7	7.7	6.9
LANDMARK WINTERSEED 5 BLEND	76.7	7.0	7.3	6.0	7.0	6.7	6.3	7.0	6.7	6.7	6.7	7.0	7.7	7.0	7.0	7.3	6.9
LCP-186	78.3	6.3	6.3	7.0	8.0	6.7	6.3	7.0	6.7	7.0	6.7	7.0	7.3	7.0	7.0	7.0	6.9
LTP-3-PR BLEND	66.7	7.0	7.0	6.7	7.0	6.7	6.3	7.0	6.7	7.0	7.0	7.0	7.3	6.7	7.3	7.0	6.9
PH.D.	61.7	7.3	6.7	5.3	8.0	6.0	6.7	6.7	6.3	6.7	6.7	7.3	7.0	7.3	7.0	7.3	6.8
PROSPORT 4	85.0	6.0	7.3	7.3	6.3	7.0	6.7	6.3	6.3	6.3	7.0	7.0	7.3	7.7	6.7	6.7	6.8
ALLSPORT 5	78.3	6.7	6.7	6.7	7.0	6.7	6.7	6.3	6.3	6.3	6.7	6.7	6.3	7.0	7.3	7.3	6.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	85.0	6.7	7.0	6.3	7.0	6.0	6.7	6.7	6.3	6.7	6.3	7.0	7.3	7.0	6.7	6.7	6.7
COMMANDER ST	81.7	6.0	6.3	6.7	6.0	6.3	6.3	7.0	6.3	7.0	6.3	7.0	7.0	6.7	6.3	6.3	6.6
IRFL-2-11	68.3	6.0	6.3	6.3	6.7	6.0	5.7	6.0	6.3	6.3	6.7	6.7	6.7	6.7	6.0	7.7	6.4
FUTURA 2500	66.7	6.7	6.0	6.0	6.3	6.0	5.3	6.3	6.0	7.0	6.3	6.7	5.3	6.7	6.3	6.7	6.2
BREAKOUT	71.7	5.3	5.3	7.0	8.0	5.7	5.7	6.0	6.7	6.7	6.3	6.0	6.0	6.3	6.0	6.0	6.1
TRANSIST 2600	80.0	5.7	5.3	6.7	6.3	5.7	6.0	6.3	6.3	6.3	6.3	6.0	6.3	5.3	6.3	6.3	6.1
SABRE III	43.3	6.0	5.0	5.7	7.0	5.3	5.3	5.7	5.7	6.0	5.3	6.0	5.3	6.3	6.0	6.0	5.7
LBP-PT-601	1.0	6.0	6.0	2.7	5.3	5.0	4.3	4.0	4.0	5.3	5.0	5.3	5.3	6.3	6.0	7.0	5.2
LSD VALUE	18.4	1.1	1.0	1.4	0.5	1.0	1.1	1.0	1.0	1.1	1.7	1.3	0.7	1.7	1.1	0.8	0.5
C.V. (%)	16.0	9.1	8.8	12.4	5.2	8.8	9.8	9.0	8.8	7.8	11.1	9.5	6.8	10.1	8.0	6.8	4.6

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

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

TABLE 9B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LUBBOCK, TX (THE RAWLS COURSE TEXAS TECH) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN FALL TRANSITION PERIOD 2016								PERCENT COVER OF LIVING GRASSES WINTER			
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	10/27	10/27	11/15	11/15	12/1	12/1	12/15	12/15	1/11	1/11	2/16	2/16
STELLAR 3GL	41.7	58.3	41.7	58.3	18.3	50.0	45.0	16.7	91.7	8.3	75.0	25.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	48.3	51.7	43.3	56.7	26.7	51.7	51.7	25.0	90.7	9.3	71.7	28.3
LCP-186	43.3	56.7	40.0	60.0	28.3	40.0	41.7	25.0	95.0	5.0	81.3	18.7
LINE DRIVE II	40.0	60.0	41.7	58.3	20.0	36.7	38.3	21.7	95.7	4.3	84.3	15.7
CHAMPION GQ	56.7	43.3	55.0	45.0	21.7	48.3	35.0	25.0	92.0	8.0	80.3	19.7
FUTURA 2500	58.3	41.7	58.3	41.7	21.7	31.7	35.0	23.3	95.7	4.3	79.7	20.3
RINGLES	53.3	46.7	53.3	46.7	28.3	35.0	43.3	18.3	94.7	5.3	82.7	17.3
LANDMARK WINTERSEED 3 BLEND	51.7	48.3	55.0	45.0	26.7	45.0	30.0	21.7	94.3	5.7	85.7	14.3
CS-PRX	53.3	46.7	60.0	40.0	28.3	41.7	48.3	23.3	94.3	5.7	83.3	16.7
LTP-3-PR BLEND	64.0	36.0	60.0	40.0	26.7	45.0	45.0	25.0	95.3	4.7	84.0	16.0
SUN	58.3	41.7	53.3	46.7	26.7	38.3	40.0	18.3	94.0	6.0	84.3	15.7
ALLSPORT 5	58.3	41.7	58.3	41.7	30.0	33.3	33.3	28.3	95.0	5.0	85.0	15.0
FUTURA 3000	41.7	38.3	71.7	28.3	23.3	33.3	31.7	18.3	97.0	3.0	86.0	14.0
NATURAL KNIT	68.3	31.7	68.3	31.7	33.3	26.7	26.7	21.7	94.0	6.0	87.0	13.0
PPG-PR-308	61.7	38.3	70.0	30.0	33.3	40.0	40.0	23.3	97.0	3.0	86.7	13.3
BRIGHTSTAR SLT	63.3	36.7	56.7	43.3	25.0	30.0	31.7	30.0	97.0	3.0	89.0	11.0
LANDMARK WINTERSEED 5 BLEND	68.3	31.7	63.3	36.7	20.0	26.7	33.3	21.7	96.3	3.7	87.3	12.7
COMMANDER ST	78.3	21.7	73.3	26.7	43.3	23.3	18.3	33.3	98.0	2.0	88.7	11.3
TRANSIST 2600	63.3	36.7	63.3	36.7	21.7	40.0	23.3	26.7	96.7	3.3	87.0	13.0
IRFL-2-11	53.3	46.7	53.3	46.7	28.3	35.0	28.3	30.0	96.3	3.7	85.7	14.3
PROSPORT 4	70.0	30.0	73.3	26.7	28.3	26.7	18.3	28.3	98.0	2.0	88.7	11.3
PH.D.	62.3	37.7	71.7	28.3	35.0	31.7	20.0	28.3	98.3	1.7	90.0	10.0
BREAKOUT	51.7	48.3	55.0	45.0	43.3	23.3	35.0	33.3	92.0	7.7	83.3	16.7
SABRE III	83.3	16.7	90.0	10.0	28.3	20.0	18.3	15.0	99.0	0.3	94.3	5.7
LBP-PT-601	99.0	0.0	99.0	0.0	23.3	0.0	0.0	25.0	99.0	0.0	98.3	1.7
LSD VALUE	60.4	64.5	42.5	42.1	33.9	34.8	35.1	32.4	9.0	8.7	14.5	14.5
C.V. (%)	35.9	55.1	30.2	47.5	39.7	43.3	47.0	38.6	3.5	75.4	7.8	45.0

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

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

TABLE 9B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LUBBOCK, TX (THE RAWLS COURSE TEXAS TECH) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017							
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	3/16	3/16	4/10	4/10	4/21	4/21	5/3	5/3
STELLAR 3GL	10.0	41.7	18.3	55.0	26.7	68.3	9.3	83.3
SPR SPREADING RYEGRASS OVERSEEDING MIX	8.3	48.3	16.7	40.0	33.3	53.3	16.7	71.7
LCP-186	10.0	35.0	15.0	41.7	30.0	60.0	16.7	76.7
LINE DRIVE II	11.7	30.0	23.3	45.0	28.3	61.7	18.3	71.7
CHAMPION GQ	15.0	28.3	18.3	27.3	40.0	45.0	18.3	71.7
FUTURA 2500	11.7	25.0	18.3	56.7	35.0	53.3	15.0	75.0
RINGLES	11.7	30.0	16.7	45.0	28.3	56.7	18.3	68.3
LANDMARK WINTERSEED 3 BLEND	11.7	21.7	18.3	30.0	31.7	56.7	23.3	58.3
CS-PRX	13.3	28.3	20.0	33.3	43.3	45.0	25.0	61.7
LTP-3-PR BLEND	8.3	31.7	16.7	30.0	30.0	55.0	25.0	60.0
SUN	11.7	26.7	13.3	28.3	40.0	45.0	23.3	60.0
ALLSPORT 5	10.0	36.7	16.7	35.0	33.3	50.0	16.7	60.0
FUTURA 3000	11.7	18.3	20.0	38.3	38.3	43.3	21.7	63.3
NATURAL KNIT	10.0	23.3	18.3	25.0	38.3	43.3	18.3	61.7
PPG-PR-308	11.7	30.0	21.7	20.0	45.0	35.0	26.7	53.3
BRIGHTSTAR SLT	13.3	23.3	21.7	21.0	43.3	38.3	28.3	51.7
LANDMARK WINTERSEED 5 BLEND	13.3	16.7	13.3	35.0	35.0	45.0	23.3	53.3
COMMANDER ST	15.0	21.7	18.3	13.3	38.3	36.7	28.3	45.0
TRANSIST 2600	11.7	28.3	25.0	51.7	40.0	53.3	31.7	56.7
IRFL-2-11	10.0	28.3	16.7	23.3	30.0	50.0	23.3	55.0
PROSPORT 4	11.7	26.7	15.0	18.7	36.7	40.0	20.0	53.3
PH.D.	16.7	15.0	18.3	12.7	48.3	23.3	38.3	35.0
BREAKOUT	16.7	21.7	20.0	30.0	25.0	53.3	25.0	50.0
SABRE III	16.7	1.3	25.0	5.0	60.0	5.0	53.3	8.3
LBP-PT-601	16.7	0.0	26.7	1.7	58.3	0.0	55.0	3.3
LSD VALUE	10.2	36.5	22.8	47.9	23.3	33.2	17.4	25.1
C.V. (%)	31.5	57.5	35.4	64.5	28.7	38.3	39.8	26.7

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 9B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LUBBOCK, TX (THE RAWLS COURSE TEXAS TECH) 1/
2016-17 DATA

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

NAME	PERCENT COVER OF LIVING GRASSES IN SPRING/SUMMER TRANSITION PERIOD 2017							
	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS	BERMUDA GRASS	OVERSEED GRASS
	5/24	5/24	6/13	6/13	7/13	7/13	7/27	7/27
STELLAR 3GL	16.7	81.7	83.3	16.7	73.3	26.7	95.0	5.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	18.3	70.0	70.0	23.3	85.0	15.0	97.7	2.3
LCP-186	23.3	65.0	70.0	26.7	81.7	18.3	97.7	2.0
LINE DRIVE II	23.3	73.3	70.0	28.3	81.7	18.3	94.7	5.3
CHAMPION GQ	25.0	68.3	68.3	26.7	78.3	21.7	94.0	6.0
FUTURA 2500	31.7	53.3	50.0	45.0	88.0	11.7	97.7	2.0
RINGLES	23.3	63.3	48.3	46.7	85.0	15.0	97.0	3.0
LANDMARK WINTERSEED 3 BLEND	30.0	60.0	36.7	58.3	88.3	11.7	96.3	3.7
CS-PRX	21.7	56.7	55.0	36.7	85.0	15.0	97.7	2.0
LTP-3-PR BLEND	31.7	51.7	61.7	30.0	91.7	8.3	97.0	3.0
SUN	28.3	50.0	53.3	38.3	91.3	8.3	98.3	1.3
ALLSPORT 5	25.0	53.3	51.7	36.7	88.3	11.7	95.7	4.3
FUTURA 3000	35.0	51.7	53.3	36.7	91.3	8.3	97.7	2.0
NATURAL KNIT	28.3	50.0	60.0	35.0	83.3	16.7	97.0	3.0
PPG-PR-308	28.3	48.3	58.3	35.0	90.0	10.0	96.3	3.7
BRIGHTSTAR SLT	21.7	51.7	46.7	45.0	89.7	10.0	96.0	3.7
LANDMARK WINTERSEED 5 BLEND	30.0	45.0	43.3	48.3	90.0	10.0	98.3	1.7
COMMANDER ST	25.0	51.7	43.3	46.7	94.0	6.0	97.7	2.0
TRANSIST 2600	27.7	68.3	56.7	38.3	81.7	18.3	98.3	1.0
IRFL-2-11	21.7	46.7	66.7	25.0	94.7	5.0	97.0	3.0
PROSPORT 4	31.7	46.7	46.7	43.3	90.7	9.3	97.7	2.0
PH.D.	33.3	21.7	20.0	58.3	93.0	6.7	98.3	1.3
BREAKOUT	25.0	43.3	6.7	46.7	89.7	10.0	96.0	3.7
SABRE III	56.7	8.3	11.0	66.7	91.7	8.3	97.0	3.0
LBP-PT-601	51.7	3.7	8.3	80.0	92.7	7.3	99.0	0.7
LSD VALUE	14.9	29.1	31.4	37.3	18.6	19.2	6.5	7.1
C.V. (%)	29.4	32.2	36.5	43.0	8.4	61.3	2.2	81.4

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

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

TABLE 9B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LUBBOCK, TX (THE RAWLS COURSE TEXAS TECH) 1/
2016-17 DATA

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

NAME	PERCENT EARLY ESTABLISHED	PLOT COLOR WINTER	LEAF TEXTURE WINTER	GROWTH RATE WINTER */	GENETIC COLOR	GROWTH RATE SPRING **/	SPRING DENSITY	SPRING LEAF TEXTURE
STELLAR 3GL	58.3	7.0	6.7	4.7	7.7	3.3	7.3	7.0
SPR SPREADING RYEGRASS OVERSEEDING MIX	51.7	6.7	7.0	3.7	7.0	3.0	6.7	7.0
LCP-186	56.7	6.7	7.0	3.0	7.3	2.3	6.7	7.0
LINE DRIVE II	60.0	7.0	7.3	3.7	7.0	3.0	7.0	7.7
CHAMPION GQ	43.3	6.3	7.0	2.3	7.7	2.7	6.3	7.0
FUTURA 2500	41.7	6.7	6.7	3.7	7.0	3.0	6.3	6.7
RINGLES	46.7	5.0	7.0	2.7	7.0	2.7	6.3	7.0
LANDMARK WINTERSEED 3 BLEND	48.3	5.0	7.0	1.7	7.3	2.7	6.3	7.0
GS-PRX	46.7	5.0	7.0	3.3	7.7	2.3	6.0	7.0
LTP-3-PR BLEND	36.0	6.0	7.0	3.0	7.0	3.0	6.3	6.7
SUN	41.7	5.3	7.0	2.3	6.7	2.7	6.3	7.3
ALLSPORT 5	41.7	5.3	7.0	3.0	7.0	3.0	6.0	6.7
FUTURA 3000	38.3	6.0	7.0	2.3	7.0	2.7	6.0	7.0
NATURAL KNIT	31.7	5.3	7.3	2.3	7.0	3.0	5.7	7.3
PPG-PR-308	38.3	5.7	6.3	2.7	7.7	3.0	5.7	7.0
BRIGHTSTAR SLT	36.7	4.3	7.0	3.0	7.0	2.3	5.3	7.0
LANDMARK WINTERSEED 5 BLEND	31.7	4.3	6.7	1.7	7.3	2.7	6.0	7.0
COMMANDER ST	21.7	5.7	7.0	2.3	6.3	3.0	5.0	6.3
TRANSIST 2600	36.7	6.7	6.7	3.7	5.0	4.7	4.7	4.0
IRFL-2-11	46.7	5.7	7.0	2.7	5.7	4.0	6.0	5.3
PROSPORT 4	30.0	5.7	7.3	2.0	6.7	3.0	5.3	6.3
PH.D.	37.7	4.0	7.0	2.7	6.7	2.0	4.7	7.0
BREAKOUT	48.3	4.7	7.3	3.0	4.3	4.7	5.0	5.0
SABRE III	16.7	2.0	8.0	1.0	3.0	1.0	2.0	9.0
LBP-PT-601	0.0	3.0	7.0	1.0	2.3	1.0	1.7	9.0
LSD VALUE	64.5	2.4	1.9	2.2	0.8	0.7	1.7	0.7
C.V. (%)	55.1	23.6	8.1	38.2	8.0	16.1	17.9	7.0

*/ GROWTH RATE WINTER - AVERAGE HEIGHT OF GROWTH RATE 1 = 3.4 MM AND 5 = 7.2 MM ON FEB 16, 2017, USED 1-5, 5=TALLEST.

**/ GROWTH RATE SPRING - GROWTH MEASUREMENT FOR WERE 1 = 4.7 MM AND 5 =15.3 MM MAY 3, 2017, USED 1-5, 5=TALLEST.

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

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

TABLE 9B.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF OVERSEEDING GRASSES IN THE
2016 USGA/NTEP ON-SITE OVERSEEDING OF BERMUDAGRASS FAIRWAY TEST
AT LUBBOCK, TX (THE RAWLS COURSE TEXAS TECH) 1/
2016-17 DATA

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

NAME	FALL QUALITY 2016			WINTER QUALITY		QUALITY RATINGS IN SPRING/SUMMER TRANSITION PERIOD 2017							QUALITY MEAN	
	11/15	12/1	12/15	1/11	2/16	3/16	4/10	4/21	5/3	5/24	6/13	7/13		7/27
STELLAR 3GL	7.0	6.7	6.0	4.3	6.0	5.7	7.0	7.0	7.7	7.3	7.7	7.7	7.3	6.7
SPR SPREADING RYEGRASS OVERSEEDING MIX	7.0	6.7	6.7	4.7	6.3	5.7	6.3	7.0	7.3	6.7	7.0	7.3	7.0	6.6
LCP-186	7.0	6.3	6.3	4.0	5.7	5.3	7.0	7.0	7.0	6.0	7.0	7.7	7.0	6.4
LINE DRIVE II	6.7	6.0	5.7	3.7	5.0	5.0	7.0	7.3	7.3	6.7	7.7	7.3	7.0	6.3
CHAMPION GQ	7.3	6.0	6.0	4.3	5.3	5.3	6.7	6.7	7.0	6.0	6.7	7.0	6.7	6.2
FUTURA 2500	6.7	6.0	6.0	3.7	5.7	5.3	6.7	6.7	6.7	6.3	6.7	7.3	7.0	6.2
RINGLES	7.0	6.0	6.0	3.7	5.0	4.7	6.7	7.0	7.0	6.7	7.3	7.0	7.0	6.2
LANDMARK WINTERSEED 3 BLEND	7.0	6.0	6.3	3.7	4.3	4.3	6.3	7.0	6.3	6.3	6.7	7.7	7.0	6.1
CS-PRX	7.0	6.3	6.0	3.7	4.7	4.7	6.0	6.7	6.7	5.7	6.7	7.0	6.7	6.0
LTP-3-PR BLEND	6.7	6.3	6.3	3.7	4.7	4.7	6.0	6.7	6.7	6.0	6.7	7.3	6.3	6.0
SUN	7.0	6.0	5.7	4.3	5.0	5.0	5.7	6.3	6.3	5.7	6.3	7.0	6.3	5.9
ALLSPORT 5	7.0	5.7	6.0	3.3	4.7	4.7	5.7	6.7	6.3	5.7	6.0	6.7	7.0	5.8
FUTURA 3000	7.0	5.7	5.7	3.3	4.7	4.0	6.0	6.7	6.3	6.0	6.7	6.7	6.7	5.8
NATURAL KNIT	7.0	5.7	5.7	4.0	5.0	4.3	5.3	6.0	6.3	5.7	6.7	7.3	6.7	5.8
PPG-PR-308	7.0	6.0	6.0	3.3	4.7	4.7	5.3	6.0	6.0	5.7	6.3	7.0	7.0	5.8
BRIGHTSTAR SLT	7.0	6.0	6.0	3.0	4.3	4.0	6.0	6.3	6.3	5.3	6.7	6.3	6.7	5.7
LANDMARK WINTERSEED 5 BLEND	7.0	5.3	5.7	3.3	4.3	4.3	5.7	6.3	6.3	6.0	6.3	6.7	6.7	5.7
COMMANDER ST	7.0	6.0	5.0	2.3	4.0	4.0	5.7	6.0	6.0	5.7	5.7	6.7	6.3	5.4
TRANSIST 2600	6.0	6.0	5.3	3.3	4.7	4.7	6.3	6.0	6.3	5.3	5.3	5.0	6.3	5.4
IRFL-2-11	7.0	5.7	5.7	3.0	5.0	4.3	5.7	6.0	6.0	4.3	5.0	5.7	5.7	5.3
PROSPORT 4	7.0	5.0	5.0	2.7	4.0	4.3	5.7	6.0	6.0	5.0	6.0	6.3	6.3	5.3
PH.D.	6.7	5.7	5.3	3.0	3.7	4.3	5.3	5.3	5.7	4.3	5.3	6.7	6.3	5.2
BREAKOUT	5.7	6.3	6.3	4.0	4.3	4.3	6.0	5.0	5.0	4.0	4.0	4.7	5.3	5.0
SABRE III	5.0	4.3	4.0	2.0	2.3	3.0	5.3	5.7	5.3	4.3	5.0	5.0	5.7	4.4
LBP-PT-601	.	4.3	3.0	2.0	2.3	3.3	5.0	5.3	4.3	4.0	4.7	5.3	6.3	4.2
LSD VALUE	0.6	1.9	1.4	1.9	1.7	2.1	2.7	2.1	1.1	1.4	1.1	1.2	1.3	0.9
C.V. (%)	5.8	13.6	13.4	25.2	20.2	19.2	15.4	13.4	9.9	14.0	10.9	10.7	9.3	9.4

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