

## **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.

Executive Director - Kevin N. Morris, National Turfgrass Evaluation Program, Inc.

### **CURRENT POLICY COMMITTEE MEMBERS:**

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Mr. Ryan Jeffries, Columbia Seeds, Inc.  
Dr. Mike Kenna, USGA Green Section  
Dr. Jason Kruse, University of Florida  
Dr. David Kopec, University of Arizona  
Mr. Gary Wilbur, Oakwood Sod Farms  
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America  
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## **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 can not 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 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST**

**LOCATIONS SUBMITTING DATA FOR 2017**

<b>State</b>	<b>Location</b>	<b>Code</b>
<b>Approach 1 Locations (Rainout shelters)</b>		
<b>Arkansas</b>	<b>Fayetteville</b>	<b>AR1</b>
<b>Georgia</b>	<b>Griffin</b>	<b>GA1</b>
<b>Indiana</b>	<b>West Lafayette</b>	<b>IN1</b>
<b>Maryland</b>	<b>College Park</b>	<b>MD1</b>
<b>Approach 2 Locations (Zone level irrigation)</b>		
<b>California</b>	<b>Riverside</b>	<b>CA1</b>
<b>New Mexico</b>	<b>Las Cruces</b>	<b>NM1</b>

## COOL-SEASON WATER USE/DROUGHT TOLERANCE TRIAL PROTOCOLS

### Approach 1- Individual Plot Level Irrigation:

- a. Year 1- Plots are fully established under full irrigation levels (plot size is 1 meter x 1 meter or 10.76 sq. ft.)
- b. Years 2, 3, 4 - Following uniform irrigation of all plots to initiate the study, full scale, automated irrigation is terminated, and individual plots are thereafter monitored on a regular basis (could be daily, bi-weekly, or weekly to correspond to particular watering frequencies allotted by the region or budget provided the cooperator) during the morning hours of the dry-down 'season'.
- c. When quality attributes of a specific plot or plots are noted to have fallen below a defined threshold (i.e. 50% wilt), it is hand-irrigated with an amount of water necessary to recharge the root zone to field capacity (between ½" to 1"). Irrigation events are recorded on a per plot basis, so that total irrigation applied over the season can be calculated on a plot basis and statistics applied.
- d. A dry-down 'season' lasts around 100 days, then plots would be fully irrigated to assess recovery. Turf quality ratings will be collected as well during dry down and recovery.
- e. A rainout shelter is employed for this approach. Data produced through the work documents 1) 'water quantity required (inches) per entry' for each location, 2) turfgrass quality before and during dry-down, during and after recovery, and a 3) ranking of the entries used.

**Approach 2- Zone Level Irrigation:** Larger study area size (~3 to 4 times more area and plant material) is used for accommodating multiple studies or 'zones' of irrigation (3 ET levels x 3 entry reps/ET level x 10.76 sq. ft/plot). This trial is not conducted under rainout shelters due to size constraints.

- a. Year 1- Similar to Approach 1, a full set of replicated entries is established, but within each of 3 target irrigation ET levels (zones). Plots (1 m x 1 m or similar size) will be fully established under full irrigation levels.
- b. Years 2-4- Irrigation treatments imposed. ET levels will correspond to 3 levels of historical reference evapotranspiration (ET<sub>o</sub>) for the location, the maximum of which should be near full water requirement (0.8 x ET<sub>o</sub> for cool-season) and lowest of which should be ~1/2 of this maximum level. ET<sub>o</sub> levels for this trial are:
  - i. Cool-season: 0.8 x ET<sub>o</sub>, 0.6 x ET<sub>o</sub>, 0.4 x ET<sub>o</sub> applied 1-3x weekly (depends on location)
- c. Frequency of irrigation to plots would also be a constant 1 or 2 day per week irrigation schedule (a single frequency should be decided on for all locations).
- d. Irrigation 'season' is approximately 120 days.
- e. Irrigation scheduling to account for rainfall (determined by location)
  - i. Approach 1- Let system run regardless of rainfall, do not adjust irrigation
  - ii. Approach 2- Do not adjust schedule for any events <0.25". Account for 50% effective rainfall for all other events in adjusting irrigation applied for each zone. (For instance, if a 1" rainfall is received; all plots are turned off for one event. If ½" is received, only the low irrigation level may be turned off, but others receive appropriate % adjustments to account for ¼" effective rainfall.
  - iii. Ultimately, accounting of total water received within each zone on a weekly basis is most important.
- f. Quality attributes (wilt/firing/% green cover, etc.) of all plots within each irrigation level will be noted regularly during the study, just prior to an irrigation day during the morning hours.
- g. At the conclusion of the study, irrigation + rainfall for each zone would be totaled by week (~10-14 weeks in duration). Quality (>6) or other parameter (>75% green cover) of interest in determining acceptability would also be noted on a per plot basis for each week. Finally, the particular amount of water needed to sustain acceptable quality each week would be determined on a plot by plot basis and totaled for the study. This amount might fluctuate by week or month.
- h. This approach is best suited for areas of the US that likely see visible drought stress arise in summer months where irrigation is not applied, i.e. (New Mexico, California, Colorado, etc.).
- i. Repeating the studies over three years will allow for upper and lower end seasonal requirements to be determined for each location.
- j. Data produced through the work will document 1) 'water quantity required (inches)' per entry for each location, 2) turfgrass quality ratings at regular intervals, and a 3) ranking of the entries used.

## 2016 National Cool-Season Water Use/Drought Tolerance Test

### Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	BAR PP 110358	Kentucky Bluegrass	Barenbrug USA
*2	Barrari	Kentucky Bluegrass	Barenbrug USA
*3	Everest	Kentucky Bluegrass	Jacklin Seed by Simplot®
*4	Blue Note	Kentucky Bluegrass	Mountain View Seeds
*5	Babe	Kentucky Bluegrass	Seeds, Inc.
6	NAI-13-132	Kentucky Bluegrass	Columbia River Seed
7	NAI-13-14	Kentucky Bluegrass	Columbia River Seed
*8	Blue Devil	Kentucky Bluegrass	Columbia River Seed
*9	Dauntless	Kentucky Bluegrass	Columbia River Seed
10	PST-K13-137	Kentucky Bluegrass	Pure-Seed Testing, Inc.
11	PST-K13-143	Kentucky Bluegrass	Pure-Seed Testing, Inc.
12	PST-K15-169	Kentucky Bluegrass	Pure-Seed Testing, Inc.
13	PST-K11-118	Kentucky Bluegrass	Pure-Seed Testing, Inc.
14	PST-K13-141	Kentucky Bluegrass	Pure-Seed Testing, Inc.
*15	Midnight	Kentucky Bluegrass	Standard entry
*16	SR 4650	perennial ryegrass	Standard entry
*17	BarRobusto	tall fescue	Barenbrug USA
18	BAR FA 121095	tall fescue	Barenbrug USA
19	DLFPS 321/3677	tall fescue	DLF Pickseed USA
20	DLFPS 321/3679	tall fescue	DLF Pickseed USA
21	DLFPS 321/3678	tall fescue	DLF Pickseed USA
*22	Nonet	tall fescue	Jacklin Seed by Simplot®
23	GO-AOMK	tall fescue	Grassland Oregon
*24	Supersonic	tall fescue	Mountain View Seeds
*25	Titanium 2LS	tall fescue	Mountain View Seeds
*26	Thor	tall fescue	Columbia Seeds
*27	Thunderstruck	tall fescue	Columbia Seeds
28	RS4	tall fescue	Landmark Turf & Native Seed
*29	Kingdom	tall fescue	Site One Landscape Supply
30	MRS� TF15	tall fescue	Site One Turf & Landscape Supply
*31	Catalyst	tall fescue	Standard entry
*32	Stetson II	tall fescue	Site One Landscape Supply
33	PST-5SDS	tall fescue	Pure-Seed Testing, Inc.
34	PST-R511	tall fescue	Pure-Seed Testing, Inc.
*35	Matisse (LTP-SYN-A3)	tall fescue	Lebanon Seaboard Corp.

\*COMMERCIALY AVAILABLE IN THE USA IN 2018

TABLE A. 2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2016 NATIONAL COOL-SEASON WATER/USE DROUGHT TOLERANCE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
AR1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	2.1-3.0	-	-	-
CA3	SANDY LOAM	7.6-8.5	-	-	-	FULL SUN	2.1-2.5	-
GA1	SANDY CLAY LOAM	-	-	-	-	UNIFORM SHADE	2.1-2.5	ONLY DURING SEVERE STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	241-375	2.1-3.0	FULL SUN	2.6-3.0	-
MD1	-	-	-	-	-	-	-	-
NM1	-	-	-	-	-	FULL SUN	1.6-2.0	-



TABLE 1.

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 1 (RAINOUT SHELTERS) AT FAYETTEVILLE, AR 1/  
2017 DATA

TOTAL WATER APPLIED IN MILLIMETERS 2/

PERCENT GREEN COVER AUGUST 21 THROUGH OCTOBER 19 (DROUGHT PERIOD) 3/

NAME	AUG 21	AUG 24	AUG 28	AUG 31	SEPT 4	SEPT 7	SEPT 11	SEPT 14	SEPT 18	SEPT 21	SEPT 25	SEPT 28
BAR PP 110358	96.3	94.7	88.3	85.3	84.0	80.0	67.7	68.7	67.0	61.3	42.0	51.3
PST-K13-137	93.7	92.0	80.0	73.3	71.3	69.3	66.7	67.0	63.0	65.7	48.3	63.0
PST-K15-169	88.7	85.3	69.3	63.0	62.3	56.0	40.7	56.7	55.7	50.7	41.3	55.3
BLUE NOTE	94.0	89.3	77.7	71.7	64.3	60.7	53.0	55.3	58.7	57.7	44.0	57.0
MIDNIGHT	97.0	94.7	84.3	76.7	74.7	69.3	50.0	63.3	56.7	56.0	31.3	56.3
BABE	95.0	91.7	71.7	62.3	59.3	52.3	52.3	56.3	57.3	57.0	47.7	53.3
PST-K11-118	96.0	94.7	84.7	80.3	77.3	69.7	47.0	61.0	54.7	51.3	47.7	52.3
DAUNTLESS	93.0	89.3	73.3	66.7	68.0	62.3	54.0	57.3	54.0	51.3	40.0	52.0
PST-K13-141	96.3	94.0	84.7	78.0	73.3	67.3	48.7	58.3	56.3	45.0	39.3	48.3
NAI-13-14	96.0	93.0	78.7	68.3	66.7	67.3	45.7	60.7	58.7	51.3	36.0	58.3
PST-K13-143	95.0	92.0	82.7	73.3	66.7	60.0	45.3	59.3	55.0	47.0	39.0	51.0
BARRARI	93.7	89.0	65.3	56.7	58.3	57.0	48.7	56.3	57.0	54.7	44.0	55.3
BLUE DEVIL	95.3	91.3	72.0	62.7	56.0	58.3	40.7	57.7	55.0	53.0	34.0	54.0
EVEREST	90.7	87.0	64.3	53.3	58.0	53.3	44.7	54.3	52.3	42.3	39.7	53.3
NAI-13-132	96.3	94.7	78.7	71.3	66.7	57.7	43.7	62.7	56.0	46.3	36.0	42.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	43.7	40.7	20.7	26.7	38.0	37.0	24.7	38.0	38.7	43.0	33.7	45.3
LSD VALUE	15.4	13.7	13.9	21.5	28.2	27.4	30.1	26.7	29.3	32.7	31.0	18.8
C.V. (%)	10.2	9.6	12.0	18.1	19.8	20.1	27.2	17.7	18.3	22.0	25.3	13.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 1.  
(CONT'D) PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 1 (RAINOUT SHELTERS) AT FAYETTEVILLE, AR 1/  
2017 DATA

NAME	TOTAL WATER APPLIED IN MILLIMETERS 2/						TOTAL WATER (MM) USED TO KEEP 50% GREEN
	OCT 2	OCT 5	OCT 9	OCT 12	OCT 16	OCT 19	
BAR PP 110358	50.0	60.3	57.7	53.7	43.3	51.3	38.0
PST-K13-137	48.7	60.0	41.0	57.3	43.7	52.7	46.7
PST-K15-169	39.3	60.0	55.0	61.3	52.7	55.3	51.0
BLUE NOTE	43.7	58.3	52.7	56.3	47.7	55.3	55.3
MIDNIGHT	37.7	59.0	49.3	56.7	39.0	46.7	59.3
BABE	45.0	59.3	49.3	58.3	47.7	57.0	67.7
PST-K11-118	38.7	57.3	43.0	58.3	51.3	50.7	67.7
DAUNTLESS	42.7	59.3	48.7	57.0	46.7	55.3	68.0
PST-K13-141	38.0	59.0	50.7	57.3	30.7	48.0	68.0
NAI-13-14	34.7	60.7	55.7	59.0	47.0	60.7	72.0
PST-K13-143	47.3	60.0	42.7	58.0	41.0	48.7	72.0
BARRARI	39.0	57.7	58.0	57.3	47.7	48.3	76.3
BLUE DEVIL	28.7	53.0	55.7	58.7	44.0	53.3	76.3
EVEREST	41.7	59.0	60.3	60.7	53.3	56.3	76.3
NAI-13-132	37.3	52.0	47.3	56.3	39.3	50.7	89.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	39.3	52.0	44.0	51.0	42.0	48.7	127.3
LSD VALUE	26.8	25.2	25.6	20.1	27.2	21.9	83.5
C.V. (%)	23.2	12.8	18.9	10.4	21.8	14.1	45.4

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 2.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 1 (RAINOUT SHELTERS) AT FAYETTEVILLE, AR 1/  
 2017 DATA

TOTAL WATER APPLIED IN MILLIMETERS 2/

PERCENT GREEN COVER AUGUST 21 THROUGH OCTOBER 19 (DROUGHT PERIOD) 3/

NAME	AUG 21	AUG 24	AUG 28	AUG 31	SEPT 4	SEPT 7	SEPT 11	SEPT 14	SEPT 18	SEPT 21	SEPT 25	SEPT 28
RS4	76.0	67.0	57.7	57.0	61.7	61.0	53.0	60.0	58.7	59.3	52.3	58.3
THOR	69.3	63.3	56.0	54.7	64.7	64.0	58.3	64.3	62.7	63.3	54.0	58.3
DLFPS 321/3678	79.7	69.7	53.7	53.7	55.0	57.0	46.0	55.3	54.7	57.7	45.7	55.3
THUNDERSTRUCK	68.3	60.3	48.3	51.7	60.3	57.0	50.7	56.7	53.0	57.0	48.3	55.7
DLFPS 321/3677	62.3	54.7	46.3	48.0	54.7	55.3	49.0	57.3	54.0	54.0	42.3	56.0
KINGDOM	71.0	63.7	49.7	51.3	57.0	56.7	48.7	56.7	51.7	57.3	54.3	51.7
PST-5SDS	61.7	53.3	46.0	48.3	58.7	59.7	52.7	59.0	61.3	60.7	50.3	55.7
STETSON II	62.7	57.7	49.3	50.7	58.3	60.7	53.0	60.3	59.3	61.0	45.0	56.7
TITANIUM 2LS	68.0	58.0	39.7	45.3	54.0	53.3	45.3	54.0	57.7	57.7	49.7	59.3
BAR FA 121095	66.7	56.3	48.7	48.7	58.3	56.7	48.0	59.7	55.0	52.3	45.7	55.3
BARROBUSTO	59.0	50.3	49.0	52.0	59.7	59.3	55.7	62.3	60.7	60.3	44.7	59.3
CATALYST	55.7	47.3	40.7	44.7	58.7	60.7	55.7	60.3	58.3	61.0	52.0	54.0
LTP-SYN-A3	78.7	70.0	50.3	54.0	57.7	53.0	44.3	51.0	55.3	55.7	40.7	53.3
DLFPS 321/3679	75.7	68.7	44.7	49.3	52.3	56.3	44.3	55.3	53.7	53.0	46.0	56.0
PST-R511	76.7	72.0	51.7	52.3	55.0	56.0	39.0	52.0	51.0	51.0	46.3	58.3
SUPERSONIC	72.7	61.3	44.3	44.7	49.0	51.0	39.3	52.3	55.3	53.7	38.0	55.0
GO-AOMK	66.7	58.0	36.7	43.7	56.0	54.0	51.7	56.0	58.0	55.7	46.3	53.7
MRS� TF15	59.7	47.7	43.0	44.3	56.7	57.3	45.7	57.7	59.7	55.7	48.0	60.0
NONET	65.0	57.7	38.3	44.7	53.0	50.7	42.7	53.0	55.0	47.3	46.0	56.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	43.7	40.7	20.7	26.7	38.0	37.0	24.7	38.0	38.7	43.0	33.7	45.3
LSD VALUE	32.4	28.3	17.1	18.1	27.3	20.6	23.0	16.1	18.7	19.1	21.5	17.1
C.V. (%)	19.0	19.8	19.1	16.8	16.7	14.5	21.0	12.7	13.3	13.1	17.2	10.3

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 2.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 1 (RAINOUT SHELTERS) AT FAYETTEVILLE, AR 1/  
2017 DATA

TOTAL WATER APPLIED IN MILLIMETERS 2/

PERCENT GREEN COVER AUGUST 21 THROUGH OCTOBER 19 (DROUGHT PERIOD) 3/

NAME	OCT 2	OCT 5	OCT 9	OCT 12	OCT 16	OCT 19	TOTAL WATER (MM)
							USED TO KEEP 50% GREEN
RS4	46.7	62.0	53.7	52.7	33.3	45.0	46.7
THOR	44.3	55.7	43.7	52.0	41.3	47.3	55.0
DLFPS 321/3678	41.0	60.7	52.3	56.0	48.7	52.7	59.3
THUNDERSTRUCK	40.3	57.7	46.7	53.7	42.3	51.7	63.7
DLFPS 321/3677	43.0	57.3	56.3	56.3	49.0	51.0	68.0
KINGDOM	48.0	55.7	46.3	49.3	44.7	51.0	68.0
PST-5SDS	43.7	59.3	45.0	54.7	40.0	50.3	72.0
STETSON II	40.7	59.3	47.0	54.3	43.0	46.7	72.0
TITANIUM 2LS	47.7	61.0	54.3	57.7	54.3	58.0	72.0
BAR FA 121095	48.0	60.3	47.0	55.7	37.7	49.7	76.0
BARROBUSTO	42.0	61.3	51.7	55.3	37.7	44.0	76.3
CATALYST	37.7	57.7	49.7	52.7	44.7	48.7	80.3
LTP-SYN-A3	41.0	56.0	47.7	53.7	36.3	49.3	80.7
DLFPS 321/3679	45.3	60.7	54.3	55.0	49.3	47.3	85.0
PST-R511	41.7	61.7	49.0	60.0	47.3	48.3	85.0
SUPERSONIC	44.7	62.0	60.3	60.3	45.7	51.7	85.0
GO-AOMK	42.7	58.3	46.0	55.7	44.0	50.3	89.3
MRSL TF15	47.0	60.0	51.7	53.7	42.3	47.7	93.3
NONET	42.3	58.3	51.7	58.7	46.3	53.0	97.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	39.3	52.0	44.0	51.0	42.0	48.7	127.3
LSD VALUE	28.3	26.6	31.1	24.0	28.5	20.2	79.9
C.V. (%)	17.7	12.0	18.5	12.2	21.2	12.5	36.4

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 3. QUALITY AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1 (RAINOUT SHELTERS) AT GRIFFIN, GA 1/ 2017 DATA

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

NAME	PRE-DROUGHT QUALITY		DROUGHT PERIOD QUALITY RATINGS				RECOVERY SEPT 27	QUALITY OCT 12
	MAY 3	JUNE 8	JULY 10	JULY 27	AUG 8	AUG 29		
EVEREST	7	7	7.0	6.3	5.3	5.3	7.0	6.3
MIDNIGHT	7	7	7.0	6.7	6.7	6.7	7.0	6.7
NAI-13-132	7	7	6.7	6.7	6.3	6.3	6.7	6.7
NAI-13-14	7	7	6.7	6.7	6.7	7.0	6.7	6.7
BABE	7	7	6.7	6.3	6.3	6.3	6.7	6.3
BAR PP 110358	7	7	7.0	7.0	6.7	6.0	7.0	7.0
DAUNTLESS	7	7	7.0	7.0	6.7	6.7	7.0	7.0
PST-K11-118	7	7	7.0	6.7	6.3	6.3	7.0	6.7
BLUE DEVIL	7	7	7.0	6.7	6.7	7.0	7.0	6.7
BLUE NOTE	7	7	6.7	5.7	5.7	5.3	6.7	5.7
PST-K13-137	7	7	7.0	6.7	6.7	6.7	7.0	6.7
PST-K13-141	7	7	6.7	6.3	6.0	5.7	6.7	6.3
PST-K15-169	7	7	7.0	6.7	6.3	7.0	7.0	6.7
PST-K13-143	7	7	7.0	6.7	6.3	6.7	7.0	6.7
BARRARI	7	7	7.0	6.0	6.0	6.0	7.0	6.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7	7	6.0	5.0	3.7	1.0	6.0	5.0
LSD VALUE	0	0	0.9	0.9	0.7	0.8	0.9	0.9
C.V. (%)	0	0	5.5	7.7	7.4	8.6	5.5	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 3. QUALITY AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1 (RAINOUT SHELTERS) AT GRIFFIN, GA 1/ 2017 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/											TOTAL WATER USED (MM)	
	DROUGHT PERIOD PERCENT GREEN COVER			JUNE 19 THROUGH SEPTEMBER 6 3/			RECOVERY		QUALITY		OCT 12		
	JUNE 19	JUNE 26	JULY 10	JULY 18	JULY 27	AUG 1	AUG 8	AUG 22	AUG 29	SEPT 6		SEPT 27	
EVEREST	99	99	99.0	99.0	99.0	96.0	89.7	86.7	83.3	80.0	83.3	89.7	110.0
MIDNIGHT	99	99	99.0	99.0	99.0	96.0	89.7	76.7	73.3	73.3	76.7	83.3	110.0
NAI-13-132	99	99	99.0	99.0	96.0	89.7	86.3	86.3	83.0	83.0	83.0	89.7	110.0
NAI-13-14	99	99	99.0	96.0	92.7	92.7	92.7	83.3	83.3	83.3	89.3	92.7	110.0
BABE	99	99	99.0	96.0	92.7	86.3	76.7	76.7	73.3	73.3	76.7	80.0	118.3
BAR PP 110358	99	99	99.0	99.0	96.0	93.0	89.7	86.7	86.7	86.7	86.7	90.0	118.3
DAUNTLESS	99	99	99.0	99.0	99.0	93.0	86.7	83.3	83.3	80.0	83.3	86.7	118.3
PST-K11-118	99	99	99.0	99.0	96.0	93.0	86.3	73.3	66.7	66.7	73.0	79.7	118.3
BLUE DEVIL	99	99	99.0	99.0	92.7	86.3	79.7	76.3	70.0	73.3	76.7	86.3	135.3
BLUE NOTE	99	99	96.0	96.0	92.7	83.3	76.7	73.3	70.0	66.7	66.7	73.3	152.3
PST-K13-137	99	99	99.0	93.0	89.7	83.3	76.7	70.0	63.3	63.3	66.7	80.0	152.3
PST-K13-141	99	99	96.0	96.0	92.7	92.7	83.3	66.7	60.0	63.3	73.3	83.3	152.7
PST-K15-169	99	99	99.0	92.7	92.7	86.3	80.0	66.7	60.0	56.7	70.0	80.0	160.7
PST-K13-143	99	99	96.0	92.7	89.7	83.3	76.7	73.3	70.0	63.3	73.3	83.3	177.7
BARRARI	99	99	96.0	92.7	83.0	76.3	73.3	70.0	63.3	63.3	70.0	80.0	178.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	99	99	93.0	90.0	73.3	56.7	36.7	6.7	3.3	0.0	0.0	0.0	194.7
LSD VALUE	0	0	7.8	15.1	14.6	18.1	16.4	14.4	15.1	14.1	14.7	12.8	145.7
C.V. (%)	0	0	3.0	5.5	7.8	11.1	12.2	12.8	14.2	13.6	13.3	10.7	36.5

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 4. QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1 (RAINOUT SHELTERS) AT GRIFFIN, GA 1/  
2017 DATA

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

NAME	PRE-DROUGHT QUALITY		DROUGHT PERIOD QUALITY RATINGS				RECOVERY SEPT 27	QUALITY OCT 12
	MAY 3	JUNE 8	JULY 10	JULY 27	AUG 8	AUG 29		
PST-R511	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
RS4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
KINGDOM	7.0	7.0	7.0	7.0	6.7	6.3	7.0	7.0
THOR	7.3	7.0	6.7	6.7	6.7	6.3	6.7	6.7
LTP-SYN-A3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
TITANIUM 2LS	7.0	7.0	7.0	7.0	6.7	6.7	7.0	7.0
CATALYST	7.0	7.0	7.0	7.0	6.7	7.0	7.0	7.0
PST-5SDS	7.0	7.0	6.7	7.0	7.0	7.0	6.7	7.0
SUPERSONIC	7.0	7.0	7.0	6.3	6.0	6.3	7.0	6.3
DLFPS 321/3678	7.0	7.0	7.0	6.7	6.3	6.3	7.0	6.7
BARROBUSTO	7.0	7.0	6.7	6.3	6.3	6.3	6.7	6.3
NONET	7.0	6.7	7.0	6.3	6.0	6.3	7.0	6.3
DLFPS 321/3677	6.7	6.7	6.3	6.3	6.0	6.0	6.3	6.3
DLFPS 321/3679	7.0	7.0	7.0	6.7	6.0	6.0	7.0	6.7
MRSL TF15	7.0	7.0	7.0	6.7	6.3	6.0	7.0	6.7
STETSON II	7.0	7.0	7.0	7.0	6.3	6.7	7.0	7.0
GO-AOMK	7.0	7.0	6.7	7.0	6.3	6.3	6.7	7.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	7.0	6.0	5.0	3.7	1.0	6.0	5.0
THUNDERSTRUCK	7.3	7.0	7.0	7.0	6.0	6.0	7.0	7.0
BAR FA 121095	6.7	7.0	6.3	6.0	6.0	5.7	6.3	6.0
LSD VALUE	0.7	0.5	0.9	0.7	0.8	0.8	0.9	0.7
C.V. (%)	3.6	2.6	5.6	6.5	8.3	9.0	5.6	6.5

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 4. QUALITY AND OTHER RATINGS OF TALL FESCUE CULTIVARS IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1 (RAINOUT SHELTERS) AT GRIFFIN, GA 1/  
2017 DATA

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

NAME (MM)	DROUGHT PERIOD PERCENT GREEN COVER JUNE 19 THROUGH SEPTEMBER 6										RECOVERY SEPT 27	QUALITY OCT 12	TOTAL WATER USED
	JUNE 19	JUNE 26	JULY 10	JULY 18	JULY 27	AUG 1	AUG 8	AUG 22	AUG 29	SEPT 6			
PST-R511	99	99	99.0	99.0	99.0	99.0	99.0	90.0	90.0	90.0	93.0	96.0	76.3
RS4	99	99	99.0	99.0	99.0	99.0	99.0	93.0	93.0	90.0	96.0	99.0	76.3
KINGDOM	99	99	99.0	99.0	99.0	96.0	93.0	93.0	89.7	86.7	93.0	99.0	84.3
THOR	99	99	99.0	96.0	93.0	92.7	92.7	89.7	89.7	89.7	89.7	89.7	93.0
LTP-SYN-A3	99	99	99.0	99.0	99.0	99.0	96.0	96.0	93.0	90.0	99.0	99.0	101.7
TITANIUM 2LS	99	99	99.0	99.0	99.0	99.0	96.0	93.0	90.0	90.0	96.0	99.0	102.0
CATALYST	99	99	99.0	99.0	99.0	96.0	89.7	89.7	80.0	76.7	86.7	93.0	110.0
PST-5SDS	99	99	99.0	96.0	96.0	93.0	89.7	80.0	76.7	70.0	76.7	83.3	110.0
SUPERSONIC	99	99	99.0	99.0	99.0	93.0	90.0	86.7	83.3	83.3	83.3	93.0	135.3
DLFPS 321/3678	99	99	99.0	99.0	96.0	92.7	80.0	76.7	76.7	70.0	76.7	89.7	144.0
BARROBUSTO	99	99	96.0	96.0	96.0	86.7	76.7	66.7	60.0	56.7	63.3	80.0	152.0
NONET	99	99	96.0	93.0	89.7	86.3	86.3	76.7	76.7	76.7	86.3	93.0	152.7
DLFPS 321/3677	99	99	96.0	89.7	89.7	89.7	83.0	76.7	73.3	73.3	73.3	83.0	169.3
DLFPS 321/3679	99	99	99.0	96.0	86.3	83.0	80.0	73.3	73.3	73.3	80.0	89.7	169.3
MRS� TF15	99	99	96.0	89.7	86.3	83.0	80.0	73.3	66.7	63.3	76.7	86.7	186.3
STETSON II	99	99	99.0	86.7	86.7	80.0	76.7	66.7	66.7	60.0	70.0	86.7	186.3
GO-AOMK	99	99	89.7	86.7	76.7	80.0	76.7	70.0	70.0	66.7	66.7	76.7	194.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	99	99	93.0	90.0	73.3	56.7	36.7	6.7	3.3	0.0	0.0	0.0	194.7
THUNDERSTRUCK	99	99	89.7	89.7	80.0	76.7	73.3	66.7	66.7	60.0	66.7	73.3	203.3
BAR FA 121095	99	99	89.7	86.7	83.3	80.0	70.0	56.7	53.3	50.0	56.7	63.3	211.7
LSD VALUE	0	0	10.1	9.9	10.5	12.9	12.8	11.7	12.3	12.4	12.1	10.2	76.3
C.V. (%)	0	0	4.6	5.4	6.9	8.9	9.8	10.2	11.1	11.6	10.6	8.2	29.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 5. Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
 (RAINOUT SHELTERS) AT WEST LAFAYETTE, IN 1/  
 2017 DATA

NAME	GENETIC COLOR	PRE-DROUGHT QUALITY RATINGS				LEAF		DROUGHT PERIOD QUALITY RATINGS				RECOVERY PERIOD QUALITY NOV 7	
		MAY 31	JUNE 28	JULY 10	JULY 31	DENSITY	TEXTURE	AUG 17	SEPT 5	SEPT 21	OCT 5		OCT 18
NAI-13-132	7.0	4.7	5.7	5.7	6.3	4.3	7.3	4.7	4.7	4.7	5.0	4.7	4.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	6.7	5.7	6.0	4.0	7.3	7.0	3.7	6.0	5.7	6.0	6.0	6.3
PST-K13-141	6.7	5.3	5.3	5.7	6.0	4.7	8.0	4.7	4.0	4.3	5.0	3.7	4.3
PST-K13-137	7.7	6.0	6.3	6.7	6.0	5.3	7.7	4.3	5.0	4.3	5.0	4.3	4.0
BLUE DEVIL	6.7	5.7	6.0	6.0	6.3	5.3	7.7	4.3	4.3	4.0	4.7	4.0	4.0
MIDNIGHT	7.7	5.7	6.3	6.7	7.0	5.3	7.0	4.7	4.3	3.7	4.7	4.3	4.3
PST-K13-143	7.3	6.0	6.0	6.7	6.3	6.0	8.0	4.0	4.7	5.3	5.0	4.0	4.0
BABE	6.7	5.7	5.3	5.3	6.0	6.0	7.7	3.3	4.3	4.0	4.7	4.7	4.0
BARRARI	6.3	4.3	4.7	5.3	5.7	5.0	7.3	2.7	3.7	4.0	5.0	4.0	4.0
DAUNTLESS	6.7	5.0	5.7	5.7	6.3	6.7	8.0	4.3	4.3	4.7	4.7	4.0	4.7
NAI-13-14	7.3	5.7	6.7	6.3	6.7	5.3	8.0	4.7	4.7	4.0	5.0	4.0	4.7
BAR PP 110358	6.3	5.7	5.7	6.0	6.0	6.0	7.3	4.0	3.3	4.3	4.7	4.0	4.3
EVEREST	8.0	6.3	6.7	6.7	6.3	6.3	7.0	4.0	4.3	4.7	4.7	4.0	4.3
PST-K11-118	6.3	6.0	6.3	6.0	6.3	6.7	7.7	4.3	4.3	5.0	4.7	4.0	4.3
BLUE NOTE	6.7	5.3	6.0	6.0	6.7	5.7	7.7	4.3	3.7	5.0	4.7	3.3	4.0
PST-K15-169	6.0	5.3	5.7	5.7	6.0	5.3	7.7	4.3	4.3	5.3	5.3	4.0	4.7
LSD VALUE	1.3	3.1	2.5	2.1	1.3	2.4	1.0	1.4	1.3	1.5	1.3	1.2	0.8
C.V. (%)	9.2	19.1	15.2	12.7	11.0	18.2	6.1	16.0	14.8	15.1	10.4	14.5	10.8

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 5.  
(CONT'D) PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
(RAINOUT SHELTERS) AT WEST LAFAYETTE, IN 1/  
2017 DATA

NAME	TOTAL WATER APPLIED IN MILLIMETERS												TOTAL WATER USED (MM)
	DROUGHT PERIOD PERCENT GREEN COVER AUGUST 14 THROUGH NOVEMBER 3												
	AUG 14	AUG 21	AUG 25	AUG 28	SEPT 1	SEPT 8	SEPT 15	SEPT 29	OCT 5	OCT 13	OCT 20	NOV 3	
NAI-13-132	56.3	52.7	53.3	54.3	46.3	52.7	60.3	54.7	57.0	47.7	38.0	32.0	59.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	24.7	31.0	23.7	47.0	51.0	63.7	63.0	46.0	49.7	51.3	43.7	44.7	59.7
PST-K13-141	61.7	58.3	56.0	46.3	41.7	48.0	57.3	38.7	56.3	42.7	34.3	27.7	63.7
PST-K13-137	53.0	51.0	58.0	50.0	39.7	49.0	43.3	49.0	41.3	38.7	30.7	23.7	72.0
BLUE DEVIL	53.3	49.3	55.0	48.0	39.3	48.0	56.3	46.0	43.7	37.3	29.0	25.0	76.3
MIDNIGHT	58.0	50.7	59.7	54.0	38.0	44.3	46.7	53.0	52.7	48.0	38.7	27.3	76.3
PST-K13-143	44.7	41.3	38.3	51.0	43.7	43.7	62.0	45.0	44.7	34.3	24.0	14.3	76.3
BABE	52.3	53.7	50.7	46.3	38.0	44.0	49.0	58.3	50.3	39.3	30.0	27.3	76.7
BARRARI	40.3	35.7	36.3	40.7	39.7	44.7	44.0	52.7	52.7	41.3	32.7	26.7	80.3
DAUNTLESS	54.0	48.0	44.7	47.7	53.7	42.0	64.7	46.7	47.7	39.0	26.0	22.3	80.3
NAI-13-14	54.0	51.3	58.7	48.0	46.7	48.3	60.3	58.3	49.3	40.7	32.0	28.0	80.3
BAR PP 110358	55.7	52.0	53.7	43.3	36.3	42.7	48.0	45.0	40.7	35.0	31.3	20.0	84.7
EVEREST	51.0	48.3	49.0	43.3	37.7	43.7	52.7	51.3	45.3	40.0	28.3	21.7	84.7
PST-K11-118	56.0	49.0	44.3	48.7	46.3	41.0	58.0	46.0	50.3	41.3	33.0	27.3	85.0
BLUE NOTE	60.7	57.3	50.7	36.7	36.0	30.0	48.3	41.0	35.3	33.0	21.7	16.7	89.0
PST-K15-169	43.3	41.3	40.3	35.7	35.3	34.7	54.7	48.3	44.7	37.0	28.3	23.0	106.0
LSD VALUE	9.3	16.4	19.9	27.8	31.1	28.2	21.9	36.5	23.3	16.5	18.3	14.7	59.3
C.V. (%)	11.3	16.9	21.2	20.7	24.9	24.6	17.3	23.9	18.8	17.1	24.5	29.1	26.3

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 6.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
(RAINOUT SHELTERS) AT WEST LAFAYETTE, IN 1/  
2017 DATA

NAME	GENETIC COLOR	PRE-DROUGHT QUALITY RATINGS				LEAF DENSITY	TEXTURE	DROUGHT PERIOD QUALITY RATINGS				RECOVERY PERIOD QUALITY NOV 7	
		MAY 31	JUNE 28	JULY 10	JULY 31			AUG 17	SEPT 5	SEPT 21	OCT 5		OCT 18
BARROBUSTO	7.7	7.0	7.0	7.0	7.0	7.3	6.7	6.7	5.3	4.7	5.0	5.7	5.3
GO-AOMK	7.7	7.7	7.7	7.3	7.0	7.7	7.3	7.0	5.3	5.0	5.7	6.0	5.7
THUNDERSTRUCK	8.0	7.7	7.3	7.3	6.7	7.7	6.7	7.0	5.7	5.3	5.0	5.0	6.0
TITANIUM 2LS	7.0	7.3	7.0	7.0	7.0	7.3	7.0	6.7	5.0	5.0	5.0	5.7	5.3
DLFPS 321/3679	7.3	7.3	6.7	7.0	6.7	7.7	6.3	7.3	5.0	4.7	5.0	5.0	5.7
CATALYST	7.0	7.0	6.7	6.7	6.3	7.7	6.7	6.7	4.7	5.0	6.0	5.7	6.0
PST-5SDS	7.3	7.0	6.7	6.7	6.3	7.7	6.3	6.3	5.3	4.7	5.0	4.7	5.0
THOR	8.0	7.0	7.3	7.0	7.3	7.3	7.0	7.0	4.3	5.3	5.0	5.3	5.0
DLFPS 321/3678	7.3	7.0	7.3	7.0	7.0	7.7	6.7	6.7	5.7	5.7	6.0	5.7	5.7
KINGDOM	8.0	7.7	7.7	7.3	6.7	7.7	6.7	7.0	5.0	4.7	5.3	5.0	5.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	6.7	5.7	6.0	4.0	7.3	7.0	3.7	6.0	5.7	6.0	6.0	6.3
BAR FA 121095	7.7	7.7	7.0	7.3	6.7	7.7	6.3	6.0	4.7	5.0	5.3	5.3	5.7
STETSON II	7.7	7.0	7.3	7.3	6.7	7.3	6.7	6.3	5.3	5.3	5.3	5.3	5.0
SUPERSONIC	7.3	6.7	6.7	7.0	6.0	6.7	7.0	6.7	5.0	4.3	5.3	5.0	5.3
NONET	6.7	7.0	7.0	6.7	5.7	7.7	5.7	6.7	4.7	5.0	5.7	5.3	5.7
RS4	7.0	7.0	7.0	7.0	7.3	7.3	7.0	7.0	4.3	4.7	5.7	5.7	6.0
PST-R511	7.0	6.7	7.0	7.0	6.3	7.0	7.0	7.0	4.7	4.3	5.0	5.0	5.7
DLFPS 321/3677	7.3	7.0	7.0	7.0	7.3	7.7	7.0	6.7	4.3	4.3	5.3	5.0	5.7
LTP-SYN-A3	7.0	7.0	6.7	7.0	6.3	7.3	6.7	6.3	4.7	4.3	5.0	5.0	5.0
MRSL TF15	7.7	7.3	7.7	7.3	6.7	7.3	6.7	6.7	4.7	4.3	5.0	4.7	5.0
LSD VALUE	0.9	1.0	1.7	1.7	1.0	1.7	1.1	0.9	1.6	1.6	1.1	0.9	1.0
C.V. (%)	5.9	6.2	9.5	8.1	8.9	7.1	7.0	8.7	13.4	13.1	9.2	8.2	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 6.  
(CONT'D)  
PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
(RAINOUT SHELTERS) AT WEST LAFAYETTE, IN 1/  
2017 DATA

NAME	TOTAL WATER APPLIED IN MILLIMETERS												TOTAL WATER USED (MM)
	AUG 14	AUG 21	AUG 25	AUG 28	SEPT 1	SEPT 8	SEPT 15	SEPT 29	OCT 5	OCT 13	OCT 20	NOV 3	
BARROBUSTO	66.0	67.7	73.7	49.3	45.3	54.3	66.7	47.7	53.0	48.3	39.3	36.7	47.0
GO-AOMK	62.0	65.7	76.0	59.7	45.3	56.7	46.0	58.3	50.3	51.7	42.7	40.7	51.0
THUNDERSTRUCK	61.7	66.3	79.3	65.3	51.0	50.7	57.3	36.0	39.3	33.3	29.0	30.0	51.0
TITANIUM 2LS	65.0	67.7	75.0	53.0	43.7	54.0	53.0	49.3	47.3	51.0	40.0	41.0	51.0
DLFPS 321/3679	65.7	70.7	76.0	59.7	49.3	41.3	57.7	33.3	38.0	38.3	29.7	27.0	55.0
CATALYST	65.7	67.0	72.0	46.3	39.3	53.7	56.0	49.7	55.3	51.7	41.0	42.7	55.3
PST-5SDS	66.3	68.0	76.7	49.3	37.0	48.0	55.3	51.0	46.0	40.7	30.7	27.7	55.3
THOR	67.7	70.0	78.7	51.3	28.3	32.7	54.3	53.0	54.0	49.7	36.7	32.3	55.3
DLFPS 321/3678	66.0	67.0	78.7	53.3	34.7	43.7	57.0	42.0	46.7	41.0	31.0	29.3	59.3
KINGDOM	67.3	68.0	74.3	59.3	42.0	45.3	53.7	41.3	47.3	41.3	33.7	31.0	59.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	24.7	31.0	23.7	47.0	51.0	63.7	63.0	46.0	49.7	51.3	43.7	44.7	59.7
BAR FA 121095	57.3	58.7	67.0	46.0	40.0	46.0	56.0	49.7	49.7	49.0	37.3	39.3	63.7
STETSON II	63.0	65.0	69.3	48.0	40.0	41.3	59.3	45.0	49.0	45.7	38.0	33.7	63.7
SUPERSONIC	62.7	62.3	69.7	50.7	37.7	52.0	51.7	55.7	52.7	46.0	36.7	34.3	63.7
NONET	58.3	61.3	70.0	47.7	40.7	46.0	54.7	55.7	58.7	49.3	43.7	37.7	68.0
RS4	66.3	65.3	74.0	51.0	38.0	48.3	44.0	57.7	53.7	52.7	42.3	39.3	68.0
PST-R511	68.0	70.3	75.7	54.0	34.0	41.3	57.3	42.7	48.3	48.3	39.7	38.7	72.0
DLFPS 321/3677	65.3	70.0	73.7	46.3	31.7	34.3	46.3	43.3	49.3	48.7	38.3	35.7	84.7
LTP-SYN-A3	63.3	66.7	70.7	48.7	34.3	37.0	50.7	46.7	39.3	37.7	32.0	28.0	84.7
MRS� TF15	62.0	63.3	70.3	47.7	32.3	33.7	48.0	41.3	42.3	37.7	28.3	25.3	89.0
LSD VALUE	5.4	7.1	8.8	23.3	18.3	17.5	20.0	22.2	20.9	14.0	17.6	24.4	44.3
C.V. (%)	5.8	7.1	8.0	16.5	20.5	19.4	14.7	19.7	16.7	14.8	19.5	25.7	27.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 7. PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
 (RAINOUT SHELTER) AT COLLEGE PARK, MD  
 2017 DATA 1/

TOTAL WATER APPLIED IN MILLIMETERS 2/

NAME	PRE-DROUGHT		DROUGHT QUALITY RATINGS			LEAF RUST %		DROUGHT PERIOD PERCENT GREEN COVER		
	JUNE 6	JULY 7	AUG 11	SEPT 21	OCT 18	AUGUST	OCTOBER	SEPT 11	SEPT 25	SEPT 28
SR 4650 (P.RYEGRASS STANDARD ENTRY)	5.0	5.3	5.7	7.3	8.7	11.7	0.0	70.3	70.7	57.7
NAI-13-14	4.0	8.0	8.0	7.7	8.7	0.3	0.0	69.7	72.0	38.7
PST-K13-143	5.0	7.7	7.0	7.7	8.3	2.7	1.0	64.3	70.3	48.3
BLUE DEVIL	5.0	8.0	7.3	7.7	8.0	1.0	0.0	63.7	65.7	45.3
BLUE NOTE	4.7	8.0	8.0	7.3	8.0	0.0	0.0	56.0	64.7	42.3
NAI-13-132	4.7	7.7	7.7	7.3	7.7	0.3	1.7	67.0	72.3	40.3
PST-K13-141	4.3	7.7	7.7	7.7	8.3	1.0	0.0	46.7	58.3	27.0
MIDNIGHT	5.0	8.0	8.0	7.7	8.3	0.3	0.0	61.3	62.0	35.0
BABE	4.3	7.0	7.0	7.0	7.0	1.7	6.0	57.0	66.3	41.0
EVEREST	4.0	7.7	8.0	7.0	8.0	0.3	0.0	57.7	65.3	32.0
BAR PP 110358	4.7	8.0	8.0	7.3	8.0	0.7	8.3	66.3	65.0	62.3
PST-K15-169	3.7	6.3	7.3	6.3	6.3	0.3	26.0	60.0	66.0	44.7
PST-K11-118	4.7	7.7	7.3	7.0	8.7	1.3	31.7	56.3	61.7	37.7
DAUNTLESS	4.3	8.0	7.0	7.3	7.7	2.3	1.7	52.3	57.3	32.0
PST-K13-137	4.7	7.0	6.0	6.3	6.7	4.3	63.3	59.7	59.3	39.7
BARRARI	6.0	7.7	7.7	7.0	8.3	2.0	0.0	40.0	48.0	28.3
LSD VALUE	1.0	0.6	1.0	1.1	1.0	5.7	30.7	16.5	28.7	31.4
C.V. (%)	11.6	5.5	8.1	7.1	7.4	156.1	190.8	14.3	16.3	32.3

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 7.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
(RAINOUT SHELTER) AT COLLEGE PARK, MD  
2017 DATA 1/

TOTAL WATER APPLIED IN MILLIMETERS 2/

NAME	DROUGHT PERIOD PERCENT GREEN COVER					TOTAL WATER USED (MM)
	OCT 2	OCT 5	OCT 9	OCT 12	OCT 16	
SR 4650 (P.RYEGRASS STANDARD ENTRY)	60.7	59.0	56.0	62.3	55.0	8.7
NAI-13-14	51.7	60.7	63.7	68.3	68.3	12.7
PST-K13-143	51.0	60.3	61.0	64.7	65.3	13.0
BLUE DEVIL	56.3	62.3	64.0	67.0	65.3	17.0
BLUE NOTE	49.0	51.3	55.3	62.0	64.3	17.0
NAI-13-132	58.0	59.3	57.7	64.3	62.7	17.0
PST-K13-141	51.0	56.7	60.3	66.3	69.3	17.0
MIDNIGHT	54.7	59.3	63.0	70.3	70.7	21.3
BABE	46.7	47.3	53.7	59.0	61.3	25.3
EVEREST	48.7	60.0	64.0	69.0	70.3	25.3
BAR PP 110358	57.7	59.7	58.3	67.3	66.0	25.7
PST-K15-169	47.0	52.7	48.0	53.7	48.0	34.0
PST-K11-118	43.0	49.3	45.3	58.0	60.7	38.0
DAUNTLESS	46.0	45.3	50.7	64.0	64.3	42.3
PST-K13-137	42.7	43.3	41.7	47.7	44.0	46.7
BARRARI	32.7	42.3	48.7	62.3	66.7	51.0
LSD VALUE	23.3	17.2	17.0	14.7	17.5	50.1
C.V. (%)	19.5	15.0	14.7	11.1	13.7	75.8

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 8.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
(RAINOUT SHELTER) AT COLLEGE PARK, MD  
2017 DATA 1/

TOTAL WATER APPLIED IN MILLIMETERS 2/

NAME	PRE-DROUGHT		DROUGHT QUALITY RATINGS			LEAF RUST %		DROUGHT PERIOD PERCENT GREEN COVER		
	JUNE 6	JULY 7	AUG 11	SEPT 21	OCT 18	AUGUST	OCTOBER	SEPT 11	SEPT 25	SEPT 28
BARROBUSTO	6.0	7.7	7.0	8.0	7.0	1.7	0.0	74.3	80.0	72.3
DLFPS 321/3677	5.7	7.3	6.3	7.7	7.0	3.0	1.7	74.7	81.3	75.7
DLFPS 321/3678	6.7	7.7	6.7	8.0	6.7	4.3	1.0	70.7	78.3	77.3
LTP-SYN-A3	6.0	7.3	6.7	7.7	7.3	3.0	1.7	72.0	79.3	77.7
PST-5SDS	6.3	7.7	7.0	8.0	7.0	3.0	0.0	77.7	84.0	83.3
RS4	6.3	7.3	7.0	7.7	7.3	5.3	2.7	73.3	82.7	82.0
THOR	6.3	7.7	7.0	7.7	7.0	3.7	1.0	78.3	85.3	84.7
THUNDERSTRUCK	6.7	7.7	6.3	7.3	7.0	7.7	0.0	62.7	70.7	66.3
TITANIUM 2LS	6.3	7.3	7.0	8.0	7.0	3.3	0.0	77.3	84.3	81.3
CATALYST	6.7	7.7	7.0	7.7	7.0	1.7	0.0	67.0	75.0	69.7
DLFPS 321/3679	6.0	7.7	7.0	8.0	7.0	2.0	0.0	74.0	76.7	72.7
KINGDOM	6.0	7.3	6.7	7.7	7.3	4.3	6.7	71.7	74.7	72.0
PST-R511	6.7	7.7	6.3	8.0	7.3	4.0	0.0	66.3	76.3	67.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	5.0	5.3	5.7	7.3	8.7	11.7	0.0	70.3	70.7	57.7
SUPERSONIC	6.3	7.0	6.3	7.7	7.3	8.0	0.0	70.0	77.3	68.7
MRS� TF15	6.3	7.0	6.3	7.3	7.0	15.0	2.7	65.3	70.7	61.0
STETSON II	6.7	7.0	6.7	7.7	7.3	2.0	1.7	65.7	72.0	63.0
GO-AOMK	5.7	6.3	6.0	7.3	7.0	5.0	3.3	70.0	73.0	61.7
BAR FA 121095	5.3	7.3	6.7	7.3	7.3	3.3	14.0	71.0	75.0	69.3
NONET	6.3	6.7	6.0	7.7	7.0	6.0	0.7	57.3	63.0	50.3
LSD VALUE	0.8	0.9	1.1	1.5	0.9	10.1	17.9	15.4	14.5	26.6
C.V. (%)	7.2	7.2	7.5	6.2	6.4	90.5	318.6	9.7	8.9	16.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 8. PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
(CONT'D) IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 1  
(RAINOUT SHELTER) AT COLLEGE PARK, MD  
2017 DATA 1/

NAME	TOTAL WATER APPLIED IN MILLIMETERS 2/					TOTAL WATER USED (MM)
	OCT 2	OCT 5	OCT 9	OCT 12	OCT 16	
BARROBUSTO	65.3	60.7	62.3	65.7	64.7	0.0
DLFPS 321/3677	67.0	64.7	61.3	67.0	63.7	0.0
DLFPS 321/3678	72.7	70.7	68.7	72.3	69.7	0.0
LTP-SYN-A3	70.3	67.0	65.3	69.0	64.3	0.0
PST-5SDS	76.0	73.0	72.0	76.3	75.3	0.0
RS4	75.3	73.3	70.3	72.3	71.3	0.0
THOR	78.3	75.0	72.7	74.7	71.0	0.0
THUNDERSTRUCK	60.0	58.0	60.3	62.7	62.3	0.0
TITANIUM 2LS	73.7	73.3	71.7	75.3	75.0	0.0
CATALYST	60.3	59.7	59.0	62.3	58.3	4.3
DLFPS 321/3679	64.0	62.7	66.0	70.7	67.7	4.3
KINGDOM	60.3	62.0	59.0	64.3	62.3	4.3
PST-R511	66.7	65.3	65.0	68.7	67.3	4.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	60.7	59.0	56.0	62.3	55.0	8.7
SUPERSONIC	60.0	54.0	60.0	67.0	65.0	8.7
MRS� TF15	47.0	53.3	54.0	58.7	55.3	12.7
STETSON II	61.3	62.7	60.3	67.0	66.0	12.7
GO-AOMK	59.0	51.7	57.3	60.0	56.0	16.7
BAR FA 121095	59.3	58.0	49.3	58.0	53.0	17.0
NONET	42.3	46.3	54.3	58.7	54.7	29.7
LSD VALUE	25.5	18.6	18.1	13.3	13.2	24.7
C.V. (%)	17.9	14.6	13.2	9.8	10.9	172.3

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 9.

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETO REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	GENETIC COLOR	PERCENT COVER		PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD)							
		MAY 25	JUNE 27	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22
BABE	7.0	90.3	97.3	97.0	70.7	58.3	36.3	31.0	18.7	6.3	9.0
BAR PP 110358	7.7	89.7	97.0	97.3	79.3	59.3	36.0	30.0	22.7	6.0	8.3
BLUE NOTE	7.7	89.0	97.0	97.7	88.3	71.0	32.3	27.3	15.7	4.0	8.3
DAUNTLESS	8.3	89.0	96.7	96.3	85.3	78.7	46.3	41.7	29.3	11.7	12.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	8.0	88.7	95.3	95.3	82.0	75.0	38.3	31.0	22.0	7.7	13.3
EVEREST	8.0	87.0	95.3	95.0	85.0	74.3	42.0	33.7	20.7	6.3	9.0
PST-K15-169	7.7	91.3	95.7	95.3	85.0	76.7	49.0	41.3	25.7	11.0	12.7
BLUE DEVIL	8.0	91.0	96.0	96.0	89.3	79.7	46.0	42.3	26.7	8.0	9.0
NAI-13-14	7.7	89.7	96.3	96.3	89.0	78.0	41.3	40.3	26.0	11.0	11.0
PST-K13-141	8.0	90.0	96.7	96.3	76.3	59.7	31.0	26.7	17.0	6.7	10.7
MIDNIGHT	7.7	83.3	95.0	94.7	78.0	70.3	43.7	46.3	35.0	18.3	16.7
NAI-13-132	8.0	90.3	95.3	96.0	76.7	65.0	40.7	30.3	23.3	8.7	10.7
BARRARI	8.0	90.0	97.3	96.7	76.7	62.3	34.7	23.0	16.3	6.7	8.7
PST-K13-137	6.3	89.0	96.3	96.0	90.0	76.3	53.0	40.7	23.3	9.3	12.3
PST-K13-143	7.3	89.0	96.3	95.3	82.7	67.3	34.7	34.3	24.3	8.7	9.3
PST-K11-118	8.0	90.0	96.0	96.0	85.3	67.7	33.7	31.0	23.3	9.3	10.7
LSD VALUE	3.8	6.7	0.9	1.1	43.6	65.5	58.9	35.4	23.2	12.5	16.2
C.V. (%)	15.0	3.0	0.6	0.7	16.0	27.4	42.8	35.5	36.2	56.2	46.7

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 9.  
(CONT'D) PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/									% COVER RECOVERY DEC 1
	AUG 29	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	
BABE	14.3	5.0	12.0	9.3	9.0	14.7	19.0	19.7	25.3	67.7
BAR PP 110358	15.3	5.7	11.7	10.3	7.7	11.3	17.7	18.7	22.7	81.3
BLUE NOTE	15.3	4.7	9.7	6.7	5.7	9.0	14.3	13.7	25.3	74.7
DAUNTLESS	17.7	7.3	15.3	14.0	10.3	11.0	13.3	13.3	18.3	75.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	18.7	9.3	13.0	12.0	12.7	14.0	14.0	14.7	19.7	60.3
EVEREST	15.0	6.7	11.0	8.0	8.0	10.7	13.3	14.0	17.0	62.7
PST-K15-169	18.0	6.7	12.3	11.3	7.7	10.7	14.7	14.3	21.7	64.3
BLUE DEVIL	15.3	7.3	14.0	11.7	7.3	10.3	15.0	18.7	25.3	80.7
NAI-13-14	20.0	8.0	14.7	12.3	9.7	11.3	14.3	17.0	21.7	87.3
PST-K13-141	17.3	6.3	11.7	10.0	7.7	12.3	12.0	13.7	19.7	73.3
MIDNIGHT	21.3	9.3	11.7	12.7	7.3	11.3	9.3	12.7	20.0	72.0
NAI-13-132	13.3	4.7	11.7	8.7	9.0	11.3	20.0	19.3	22.3	82.0
BARRARI	15.7	5.7	13.0	10.3	7.7	12.0	14.7	14.7	22.7	73.7
PST-K13-137	17.0	5.3	11.3	9.7	6.7	10.0	16.0	19.0	27.0	80.3
PST-K13-143	16.3	4.7	11.0	9.3	7.3	10.0	14.0	14.0	19.0	74.3
PST-K11-118	20.0	6.0	11.0	9.3	8.0	9.7	11.0	13.3	20.0	78.0
LSD VALUE	29.3	6.1	18.7	22.4	19.3	22.5	27.1	31.6	40.5	41.6
C.V. (%)	47.2	36.4	42.0	59.8	64.8	53.6	53.2	55.5	50.4	18.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 9.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22	AUG 29
BABE	7.0	6.3	6.0	6.3	6.0	6.7	6.3	6.3	2.7
BAR PP 110358	6.7	6.7	6.3	5.7	5.3	6.0	5.3	5.3	3.0
BLUE NOTE	5.7	7.3	6.7	6.3	6.0	6.3	5.0	5.7	2.7
DAUNTLESS	7.3	7.3	6.3	5.3	5.7	6.0	5.0	5.7	3.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	7.7	7.0	5.0	5.7	6.3	5.0	5.7	3.7
EVEREST	7.0	7.0	6.7	5.3	6.0	6.0	5.3	5.3	2.3
PST-K15-169	6.0	6.7	6.3	5.0	5.7	5.7	4.7	5.3	3.0
BLUE DEVIL	6.7	7.0	6.3	5.0	5.3	6.0	5.0	5.0	3.0
NAI-13-14	7.0	7.0	5.7	4.7	5.7	5.0	5.0	5.0	3.0
PST-K13-141	7.0	7.7	6.7	5.3	6.0	6.0	4.3	5.3	3.0
MIDNIGHT	6.0	6.7	6.0	5.3	5.7	5.3	4.7	4.3	3.3
NAI-13-132	6.0	6.7	6.3	5.0	5.3	5.3	4.7	5.0	2.7
BARRARI	7.0	7.0	6.0	5.3	5.3	5.0	3.7	4.0	2.7
PST-K13-137	5.0	6.3	5.3	5.3	4.7	5.0	4.7	4.7	3.0
PST-K13-143	5.7	6.3	5.7	5.3	5.0	5.3	4.3	4.7	3.0
PST-K11-118	6.0	7.0	5.3	5.7	5.0	5.0	4.0	4.0	3.3
LSD VALUE	4.1	4.3	3.1	2.1	3.2	2.6	2.3	2.4	2.8
C.V. (%)	20.6	17.6	16.3	14.2	17.6	16.5	18.8	18.7	27.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 9.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/								RECOVERY	MEAN
	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	QUALITY DEC 1	
BABE	6.0	2.3	2.3	2.7	5.7	3.0	6.3	2.7	7.0	4.9
BAR PP 110358	4.7	2.7	2.7	3.0	5.0	3.7	5.0	3.7	6.7	4.8
BLUE NOTE	5.3	2.3	2.3	2.7	4.3	3.3	5.3	3.3	5.7	4.7
DAUNTLESS	4.7	2.7	2.7	3.0	4.7	3.0	4.7	2.7	7.3	4.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.3	3.0	2.3	3.3	4.0	3.7	4.3	3.0	7.0	4.7
EVEREST	4.7	2.3	2.3	2.7	4.3	3.3	5.7	3.0	7.0	4.6
PST-K15-169	4.0	2.7	3.7	3.3	4.0	3.3	4.3	3.7	6.0	4.6
BLUE DEVIL	4.7	2.7	2.3	2.7	4.3	3.0	4.3	3.0	6.7	4.5
NAI-13-14	3.7	3.0	3.0	3.3	4.3	3.3	4.3	3.3	7.0	4.5
PST-K13-141	3.7	2.3	2.3	2.7	4.0	3.3	3.7	3.3	7.0	4.5
MIDNIGHT	3.7	3.0	2.7	2.7	4.0	3.0	4.7	3.0	6.0	4.4
NAI-13-132	4.3	2.3	2.3	2.7	4.7	2.7	5.0	3.0	6.0	4.4
BARRARI	3.3	2.7	2.7	3.0	3.7	3.7	4.3	3.3	7.0	4.3
PST-K13-137	4.7	2.7	2.7	2.7	4.0	3.3	4.7	3.0	5.0	4.3
PST-K13-143	3.7	2.7	2.7	3.3	3.7	3.7	4.0	3.3	5.7	4.3
PST-K11-118	2.7	3.0	2.7	2.7	3.3	3.3	4.0	3.3	6.0	4.2
LSD VALUE	3.4	1.6	2.1	1.6	4.3	1.8	4.1	1.1	4.1	1.2
C.V. (%)	30.1	19.3	26.4	18.8	30.7	17.9	28.5	13.5	20.6	9.1

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 10.

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 60% OF ETO REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	GENETIC COLOR	PERCENT COVER		PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD)							
		MAY 25	JUNE 27	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22
BLUE DEVIL	8.3	95.0	97.0	89.7	92.3	92.7	84.7	88.3	71.3	46.0	47.7
BAR PP 110358	7.7	91.0	98.0	95.3	89.0	80.0	60.3	55.0	46.3	38.3	33.7
BLUE NOTE	8.3	84.0	98.0	95.7	96.0	93.0	79.3	78.3	68.0	39.3	45.7
EVEREST	7.7	81.0	97.3	94.0	93.7	93.0	78.3	84.3	59.7	43.3	39.7
NAI-13-132	8.3	95.0	95.3	84.0	84.0	84.7	74.3	77.3	64.3	47.0	45.3
NAI-13-14	7.7	73.0	96.0	94.7	95.3	94.3	87.0	89.3	76.3	60.0	54.7
PST-K13-137	8.3	88.7	90.7	87.0	87.0	87.7	74.0	82.0	59.7	41.3	42.0
PST-K13-141	8.3	94.7	97.7	96.0	96.7	96.3	88.3	87.3	72.0	53.3	51.3
BABE	6.7	85.7	97.7	85.7	90.0	87.0	64.0	66.3	50.3	30.7	36.7
PST-K15-169	8.0	94.0	95.7	92.3	91.0	92.0	77.0	80.7	63.7	41.7	42.7
MIDNIGHT	8.0	91.0	95.3	95.0	95.0	91.7	80.0	84.7	70.7	58.3	48.0
PST-K13-143	7.7	81.3	95.3	94.3	89.7	78.7	52.7	69.0	46.3	33.7	31.0
BARRARI	8.0	91.0	98.0	96.7	94.7	93.3	78.3	79.3	60.0	46.0	50.0
DAUNTLESS	7.3	89.3	97.0	94.0	91.7	83.3	63.7	68.7	50.0	34.7	39.0
PST-K11-118	7.3	95.0	97.3	96.3	95.3	94.7	85.3	88.3	73.0	57.0	54.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.7	88.3	96.7	95.3	90.3	86.0	67.3	67.3	49.0	25.0	39.3
LSD VALUE	3.7	17.2	6.2	19.7	22.4	37.9	51.9	40.3	35.0	38.7	29.4
C.V. (%)	14.2	8.8	2.7	7.5	7.8	13.3	24.4	19.8	23.5	34.8	25.4

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 10. PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
(CONT'D) IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 60% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/

NAME	PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/									% COVER RECOVERY
	AUG 29	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	DEC 1
BLUE DEVIL	56.0	22.0	38.0	53.0	50.3	50.0	58.3	67.7	74.0	96.3
BAR PP 110358	45.0	11.0	32.3	38.0	43.3	37.0	51.0	51.0	63.7	91.7
BLUE NOTE	43.7	11.3	43.3	46.7	55.0	40.3	56.3	62.7	71.3	93.0
EVEREST	46.0	15.0	42.0	47.0	45.0	48.3	59.3	61.7	71.7	94.7
NAI-13-132	43.7	19.7	37.7	35.0	42.3	38.0	51.3	61.7	71.0	93.0
NAI-13-14	55.0	17.0	41.7	42.7	46.7	46.7	66.7	77.3	83.0	94.3
PST-K13-137	50.3	15.7	42.3	36.0	34.7	32.3	49.3	58.0	61.0	91.7
PST-K13-141	56.7	18.3	49.0	50.7	47.3	45.7	58.3	66.3	79.3	94.0
BABE	38.3	11.0	29.3	37.0	42.0	33.3	50.7	53.3	60.3	89.0
PST-K15-169	52.0	15.0	36.0	47.0	44.7	41.7	49.7	56.7	68.7	92.7
MIDNIGHT	65.3	26.0	51.3	56.0	50.0	44.7	62.0	65.3	80.3	96.3
PST-K13-143	43.7	12.3	37.0	30.7	38.7	29.0	56.3	56.0	64.7	88.3
BARRARI	63.3	17.0	35.3	43.7	35.0	33.7	49.3	63.0	78.0	92.7
DAUNTLESS	51.0	13.3	29.0	39.7	39.7	35.0	50.3	57.0	63.0	92.7
PST-K11-118	66.0	20.0	44.7	46.0	44.7	36.7	54.0	68.7	87.0	93.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	47.7	11.7	32.0	40.3	47.0	39.7	45.0	44.3	47.3	78.7
LSD VALUE	39.2	12.4	36.7	38.5	36.5	18.4	39.4	35.9	24.2	7.8
C.V. (%)	27.4	34.6	31.8	30.2	26.2	20.4	22.7	21.5	16.6	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 10.  
 (CONT'D) PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 60% OF Eto REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22	AUG 29
BLUE DEVIL	7.7	7.0	6.3	5.0	6.0	5.3	4.3	5.0	4.7
BAR PP 110358	6.3	7.7	6.3	4.3	5.0	5.3	4.3	5.0	4.3
BLUE NOTE	7.3	6.7	6.0	5.0	5.3	5.7	4.7	5.3	4.3
EVEREST	7.3	6.0	5.7	5.0	5.3	5.7	4.7	5.0	4.7
NAI-13-132	7.3	7.0	5.7	5.3	5.7	5.7	5.0	5.0	4.0
NAI-13-14	6.7	7.0	5.7	4.7	4.7	5.3	4.3	4.3	5.0
PST-K13-137	7.3	7.0	6.0	5.0	5.0	5.3	4.7	5.0	4.7
PST-K13-141	7.3	7.7	6.3	5.7	5.7	5.3	3.7	4.3	4.7
BABE	5.7	6.0	5.3	4.3	5.0	5.3	5.0	5.7	4.0
PST-K15-169	7.7	6.7	5.7	5.0	5.3	5.0	3.7	4.7	5.0
MIDNIGHT	6.7	6.3	5.0	4.7	4.7	5.0	4.0	4.0	5.0
PST-K13-143	6.3	6.7	5.7	4.7	4.7	5.0	4.0	3.7	5.0
BARRARI	7.0	6.3	5.3	5.3	4.3	4.3	3.3	3.3	5.0
DAUNTLESS	5.7	5.7	5.0	4.3	4.7	5.0	4.0	4.3	4.7
PST-K11-118	6.3	6.3	6.0	4.7	4.7	4.3	3.3	3.7	5.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.3	6.3	5.3	4.0	4.7	5.3	4.3	5.0	4.7
LSD VALUE	2.3	2.6	1.4	1.6	0.7	2.0	3.3	4.1	2.1
C.V. (%)	13.7	14.0	10.2	13.3	7.9	13.7	25.2	29.1	14.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 10. PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 (CONT'D) IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 60% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	RECOVERY	MEAN
									QUALITY	
									DEC 1	
BLUE DEVIL	3.7	5.0	5.0	4.7	4.0	4.7	4.7	5.0	7.7	5.2
BAR PP 110358	5.0	4.0	4.7	4.3	4.3	4.7	5.0	4.7	6.3	5.1
BLUE NOTE	5.0	4.0	4.3	4.7	4.3	4.3	5.0	5.0	7.3	5.1
EVEREST	4.0	4.3	4.7	5.0	5.0	4.3	5.3	4.7	7.3	5.1
NAI-13-132	4.3	4.3	4.3	4.3	4.3	4.7	4.7	5.0	7.3	5.1
NAI-13-14	3.3	5.0	4.7	5.0	4.0	5.0	4.3	5.0	6.7	5.0
PST-K13-137	4.0	4.3	4.7	4.3	4.0	4.0	4.0	5.0	7.3	5.0
PST-K13-141	3.0	4.7	4.7	4.7	3.3	4.7	3.0	5.3	7.3	5.0
BABE	5.0	4.0	4.0	4.7	5.3	4.3	4.7	4.7	5.7	4.9
PST-K15-169	2.7	4.7	4.7	4.7	3.7	4.3	4.0	5.0	7.7	4.9
MIDNIGHT	3.3	5.0	4.7	4.7	4.0	4.3	4.0	5.0	6.7	4.8
PST-K13-143	3.7	4.0	4.0	4.7	4.0	4.0	4.0	5.0	6.3	4.7
BARRARI	3.0	4.7	4.3	5.0	3.3	4.7	3.3	5.3	7.0	4.6
DAUNTLESS	3.7	4.0	4.3	4.3	3.0	4.3	4.0	5.0	5.7	4.6
PST-K11-118	2.7	4.3	5.0	4.7	3.0	4.7	3.3	5.0	6.3	4.6
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.3	4.0	4.0	4.3	3.7	4.0	4.3	4.0	6.3	4.6
LSD VALUE	5.3	2.2	2.5	2.1	3.7	1.5	3.9	0.6	2.3	0.8
C.V. (%)	44.1	16.9	16.9	13.4	31.3	11.5	30.2	6.2	13.7	6.5

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 11. PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 80% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

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

NAME	GENETIC COLOR	PERCENT COVER			PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD)						
		MAY 25	JUNE 27	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22
PST-K13-137	7.7	91.7	93.7	79.3	85.0	87.0	86.0	87.7	83.3	80.0	76.0
PST-K11-118	8.3	94.0	96.3	95.0	93.3	92.7	90.7	87.3	80.3	79.0	78.0
PST-K13-141	8.3	83.7	96.3	95.3	96.0	94.7	93.7	93.0	85.7	80.7	81.3
BLUE DEVIL	8.3	94.0	96.7	95.0	92.0	90.7	84.7	86.3	78.0	72.7	76.7
EVEREST	8.0	89.7	96.3	92.7	88.7	84.7	82.7	79.7	83.3	80.0	77.7
PST-K13-143	8.3	82.0	93.3	92.3	88.7	90.3	87.0	87.7	83.3	77.3	73.3
BABE	8.0	94.0	96.7	95.0	66.0	60.0	63.0	63.3	60.7	58.3	66.0
BAR PP 110358	8.0	94.7	96.0	97.0	84.7	78.0	70.0	72.0	75.3	65.0	71.0
BARRARI	8.3	89.0	96.0	97.3	89.3	82.3	81.7	83.3	83.3	77.3	76.3
MIDNIGHT	7.3	90.0	95.3	86.7	86.0	83.7	79.3	84.7	78.3	74.3	74.7
NAI-13-132	8.3	93.7	96.3	95.7	76.0	66.7	70.7	71.3	59.7	55.7	61.0
NAI-13-14	8.0	85.7	94.7	88.7	86.3	85.0	81.0	78.7	72.0	68.7	72.7
PST-K15-169	8.0	96.0	96.7	95.3	91.0	88.0	83.3	76.7	78.3	71.3	72.3
BLUE NOTE	6.7	89.3	96.7	96.0	82.3	80.7	77.7	81.0	71.0	70.7	80.0
DAUNTLESS	8.0	91.3	97.7	97.0	93.7	89.3	87.7	83.0	78.0	70.7	72.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.7	94.7	96.0	94.7	66.7	59.7	65.0	61.3	57.0	36.0	40.0
LSD VALUE	2.7	17.1	4.0	16.3	51.6	69.7	56.4	48.8	47.0	49.7	34.8
C.V. (%)	11.2	7.1	1.7	7.2	20.0	27.2	22.6	20.7	21.6	26.6	19.7

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 11.  
(CONT'D)  
PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 80% OF E<sub>o</sub> REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/									% COVER RECOVERY
	AUG 29	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	DEC 1
PST-K13-137	85.7	63.0	77.0	83.7	89.3	80.3	85.7	91.7	92.0	89.7
PST-K11-118	87.7	69.7	81.0	90.3	92.3	84.3	86.3	92.7	93.3	94.3
PST-K13-141	89.7	68.3	78.3	88.0	91.7	81.3	87.0	94.3	93.3	94.0
BLUE DEVIL	85.7	62.7	71.7	84.0	93.0	82.0	82.7	93.3	94.3	95.3
EVEREST	83.7	67.0	75.0	80.0	82.7	77.7	82.3	87.7	91.3	94.3
PST-K13-143	85.0	60.7	73.7	82.0	90.3	79.3	84.7	91.3	93.3	93.3
BABE	69.0	50.3	60.7	67.0	69.7	63.0	65.0	77.0	81.0	88.3
BAR PP 110358	70.7	45.7	64.7	62.7	70.0	59.7	71.0	82.7	86.7	93.3
BARRARI	85.0	57.0	71.0	77.3	84.0	75.0	81.0	91.0	92.3	94.3
MIDNIGHT	79.0	66.3	71.3	81.3	86.3	78.0	81.0	89.0	85.7	91.0
NAI-13-132	68.3	39.7	52.3	61.7	70.7	63.0	69.3	82.3	80.3	92.3
NAI-13-14	82.3	64.3	72.7	80.3	86.0	78.0	83.3	90.0	89.3	92.0
PST-K15-169	79.3	57.0	66.3	75.3	87.7	78.0	82.0	91.7	87.3	91.0
BLUE NOTE	85.0	50.0	61.3	78.0	82.0	64.7	72.3	87.7	88.0	95.0
DAUNTLESS	79.7	61.3	73.7	78.0	82.3	68.0	79.3	87.7	89.7	92.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	51.0	34.3	40.0	52.7	67.0	54.0	53.3	74.3	66.0	89.3
LSD VALUE	39.7	32.6	43.0	38.9	45.6	49.3	44.9	30.1	24.8	11.2
C.V. (%)	19.3	24.4	24.0	20.0	19.0	23.2	20.5	11.9	11.6	4.2

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 11. PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 (CONT'D) IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 80% OF ET<sub>o</sub> REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/								
	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22	AUG 29
PST-K13-137	7.3	7.7	7.3	5.3	5.7	6.3	5.0	5.7	5.7
PST-K11-118	8.0	7.7	6.7	5.7	5.7	5.3	3.7	4.3	6.0
PST-K13-141	7.7	8.3	6.3	5.7	5.0	5.0	4.0	5.0	6.7
BLUE DEVIL	6.7	6.7	5.7	4.7	5.0	5.7	5.0	5.0	5.7
EVEREST	7.0	6.3	6.3	5.7	5.3	5.7	4.7	5.0	5.3
PST-K13-143	7.7	8.0	7.0	5.0	5.7	5.7	4.7	5.3	5.7
BABE	8.0	7.0	6.0	5.7	5.3	5.7	4.3	5.0	5.3
BAR PP 110358	7.0	7.7	6.3	6.3	5.7	5.7	4.7	4.3	5.3
BARRARI	6.7	7.3	6.0	5.0	5.3	5.0	4.3	4.7	6.3
MIDNIGHT	6.3	7.0	6.0	5.0	5.0	5.3	4.3	5.3	5.7
NAI-13-132	7.3	7.3	7.0	5.7	6.0	6.0	4.7	5.7	5.0
NAI-13-14	7.3	6.3	6.3	5.7	5.0	5.7	4.3	5.0	5.3
PST-K15-169	7.0	7.7	6.0	5.3	5.3	6.0	4.3	5.0	5.7
BLUE NOTE	6.3	6.3	5.3	5.3	5.3	5.7	4.7	5.3	5.3
DAUNTLESS	6.3	6.3	5.7	4.7	4.7	5.3	4.3	4.7	5.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	7.3	6.7	5.0	4.7	5.7	4.0	5.0	4.7
LSD VALUE	2.8	2.8	2.5	1.8	3.0	3.7	3.7	3.3	1.9
C.V. (%)	13.6	14.5	14.5	13.0	17.1	18.6	23.5	19.7	13.2

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 11. Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 (CONT'D) PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 80% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
 DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	RECOVERY QUALITY DEC 1	MEAN
PST-K13-137	4.7	5.3	5.7	6.0	5.3	5.3	5.3	5.7	7.3	5.9
PST-K11-118	3.3	6.0	7.0	6.3	3.3	6.3	3.7	6.7	8.0	5.7
PST-K13-141	2.7	7.0	7.0	6.7	3.0	6.0	3.3	6.3	7.7	5.7
BLUE DEVIL	3.7	5.7	6.3	6.7	4.0	5.7	4.3	6.3	6.7	5.6
EVEREST	5.0	5.7	6.3	5.3	4.7	5.3	5.0	6.0	7.0	5.6
PST-K13-143	3.7	5.3	6.0	6.0	3.7	5.7	4.0	6.0	7.7	5.6
BABE	4.3	5.3	5.7	5.7	4.0	5.3	4.3	5.7	8.0	5.5
BAR PP 110358	4.3	5.0	5.7	5.3	4.0	5.0	4.7	5.7	7.0	5.5
BARRARI	3.7	5.7	6.0	6.0	3.3	6.0	4.3	6.3	6.7	5.5
MIDNIGHT	4.0	6.0	6.7	5.7	4.0	5.3	4.7	6.0	6.3	5.5
NAI-13-132	5.0	5.0	5.0	4.7	4.3	4.7	5.0	5.3	7.3	5.5
NAI-13-14	3.7	5.7	6.0	5.7	3.7	5.3	4.7	5.3	7.3	5.4
PST-K15-169	3.7	5.3	5.3	5.3	3.7	5.7	4.0	6.0	7.0	5.4
BLUE NOTE	5.0	4.7	5.3	5.0	4.3	4.7	5.0	5.3	6.3	5.3
DAUNTLESS	4.3	5.3	5.3	5.7	3.7	5.3	5.0	6.0	6.3	5.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.0	4.0	4.0	4.0	3.7	4.3	4.0	4.3	7.0	4.9
LSD VALUE	4.3	1.4	2.0	2.0	3.6	2.3	3.9	2.3	2.8	2.2
C.V. (%)	33.5	13.1	15.8	15.9	29.8	16.0	27.3	14.9	13.6	11.3

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 12. PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 40% OF ETO REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

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

NAME	GENETIC COLOR	PERCENT COVER			PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD)						
		MAY 25	JUNE 27	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22
DLFPS 321/3679	7.3	90.7	94.7	94.0	76.7	69.7	39.3	41.3	28.3	12.0	16.3
LTP-SYN-A3	7.7	92.7	96.0	95.3	83.7	79.3	54.3	40.7	29.3	14.3	17.3
BARROBUSTO	7.7	90.3	95.3	94.0	72.7	66.0	42.0	42.0	29.3	17.3	18.3
GO-AOMK	8.7	92.7	94.3	91.7	80.3	71.3	40.0	29.7	21.0	9.0	11.3
STETSON II	8.0	91.0	94.3	92.7	81.3	65.0	36.3	26.3	19.0	8.0	11.7
CATALYST	9.0	89.7	95.3	95.3	83.3	78.0	52.3	53.7	34.0	17.3	17.3
DLFPS 321/3678	8.3	88.3	94.7	93.0	80.0	75.3	53.0	51.0	41.3	21.7	21.0
MRSI TF15	7.7	90.3	94.3	93.7	83.7	73.3	43.0	42.0	28.3	12.3	14.3
PST-5SDS	8.7	91.3	95.3	93.7	78.0	69.7	46.3	41.0	29.0	13.3	15.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	8.0	88.7	95.3	95.3	82.0	75.0	38.3	31.0	22.0	7.7	13.3
NONET	8.0	87.7	95.0	93.7	79.7	74.0	48.3	39.3	25.7	9.0	11.3
SUPERSONIC	8.3	93.3	95.3	94.0	73.7	61.7	25.3	29.3	23.7	14.7	15.7
THOR	8.3	89.0	95.3	94.0	67.0	61.3	41.0	32.7	21.3	9.7	10.3
THUNDERSTRUCK	7.7	88.7	94.7	93.7	84.7	79.3	47.3	44.0	23.0	9.0	10.3
PST-R511	6.7	90.7	96.0	95.7	83.3	77.3	33.3	26.3	17.7	5.7	6.7
DLFPS 321/3677	6.7	90.7	95.3	94.3	79.7	72.7	46.0	42.0	28.3	16.0	16.3
KINGDOM	8.3	87.0	94.3	93.7	82.0	71.3	51.0	50.0	33.3	15.7	15.0
TITANIUM 2LS	7.0	87.7	95.3	93.7	71.7	60.0	23.7	18.3	14.7	6.0	8.3
BAR FA 121095	8.0	91.3	95.3	94.3	74.0	65.7	41.3	43.3	32.0	18.7	18.0
RS4	8.3	87.7	95.3	94.3	88.0	82.3	57.7	56.3	41.3	16.3	16.7
LSD VALUE	2.5	10.2	1.6	2.7	25.5	39.0	43.8	32.1	21.4	18.3	19.5
C.V. (%)	12.2	3.7	0.7	1.3	11.1	17.2	35.1	34.6	34.3	54.4	45.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 12.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/									% COVER RECOVERY
	AUG 29	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	DEC 1
DLFPS 321/3679	25.0	8.7	15.0	14.7	11.0	13.3	15.7	16.3	22.0	74.7
LTP-SYN-A3	25.3	10.3	21.3	22.0	17.3	17.0	18.3	22.0	28.0	72.3
BARROBUSTO	27.3	9.7	18.7	20.7	13.0	17.3	15.7	17.3	22.7	74.3
GO-AOMK	20.7	9.0	17.0	16.7	14.7	17.7	18.3	16.3	19.7	74.3
STETSON II	19.0	9.3	16.0	13.7	11.3	13.7	17.7	13.0	20.3	64.7
CATALYST	21.7	7.3	14.3	16.3	13.0	14.7	16.3	16.3	22.0	68.0
DLFPS 321/3678	24.7	8.0	12.7	14.0	10.3	12.3	13.0	13.3	17.3	69.0
MRSL TF15	19.7	7.3	16.0	14.3	14.0	13.7	16.3	20.0	22.0	75.0
PST-5SDS	20.0	8.3	17.0	18.0	15.7	17.3	20.0	20.0	25.7	76.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	18.7	9.3	13.0	12.0	12.7	14.0	14.0	14.7	19.7	60.3
NONET	16.7	9.0	16.0	11.3	9.7	13.0	15.3	16.3	18.7	69.3
SUPERSONIC	19.0	8.0	14.3	16.3	14.0	16.7	15.7	16.3	19.0	65.3
THOR	16.7	7.7	11.3	13.0	9.3	11.0	10.3	10.3	14.0	61.3
THUNDERSTRUCK	17.7	7.3	12.3	11.7	8.3	10.0	13.7	12.7	17.3	57.3
PST-R511	11.7	5.3	10.7	8.7	7.3	9.0	9.7	9.3	11.0	46.0
DLFPS 321/3677	21.3	8.7	13.7	13.7	11.0	14.0	13.3	13.0	16.0	64.3
KINGDOM	19.7	8.3	15.0	15.3	11.7	14.3	15.3	15.7	21.3	72.7
TITANIUM 2LS	14.7	8.0	12.0	13.0	11.3	12.0	14.7	15.7	16.3	52.7
BAR FA 121095	27.0	8.7	20.0	19.7	13.7	19.3	17.3	17.7	23.0	72.0
RS4	23.0	9.3	21.0	19.0	13.7	17.0	20.0	19.0	21.0	70.3
LSD VALUE	30.9	13.1	23.5	26.7	21.7	21.6	19.1	22.2	28.1	37.0
C.V. (%)	43.7	40.0	44.3	50.2	49.5	43.0	36.6	42.0	41.7	19.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 12.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22	AUG 29
DLFPS 321/3679	6.0	7.3	7.0	5.7	6.0	6.7	5.7	5.7	3.3
LTP-SYN-A3	7.3	7.7	7.0	6.0	6.0	6.3	5.0	5.3	3.0
BARROBUSTO	5.7	7.3	6.0	4.7	6.0	6.7	5.3	5.7	3.3
GO-AOMK	7.7	8.0	6.3	5.3	6.0	6.0	5.0	5.0	2.7
STETSON II	6.0	7.3	6.3	5.3	5.7	6.7	5.3	5.7	2.7
CATALYST	8.0	7.7	6.3	6.0	5.7	6.0	5.0	5.3	3.0
DLFPS 321/3678	7.7	8.0	7.0	5.0	5.7	6.0	5.0	5.3	3.0
MRSL TF15	7.0	6.7	6.0	5.7	5.3	5.7	5.0	5.0	2.3
PST-5SDS	7.7	7.7	6.3	5.3	6.0	6.0	4.3	5.3	2.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	7.7	7.0	5.0	5.7	6.3	5.0	5.7	3.7
NONET	6.3	7.0	6.3	5.0	5.7	5.3	4.3	5.0	3.0
SUPERSONIC	6.0	8.0	6.7	5.3	5.7	5.3	5.0	5.0	3.0
THOR	7.7	8.0	6.7	5.7	6.0	6.0	4.3	4.3	2.7
THUNDERSTRUCK	6.3	7.3	7.0	5.3	5.3	5.3	5.0	5.7	3.0
PST-R511	5.7	6.0	5.7	5.7	5.3	6.0	5.7	6.0	2.0
DLFPS 321/3677	5.3	6.0	5.3	6.0	5.0	5.0	4.3	5.0	3.3
KINGDOM	7.3	6.3	5.7	4.7	4.7	5.7	4.3	4.7	3.0
TITANIUM 2LS	6.0	6.3	6.0	5.0	5.3	5.3	5.3	5.3	2.3
BAR FA 121095	6.7	7.0	5.7	4.7	5.0	5.0	4.0	3.3	3.7
RS4	7.0	7.0	5.3	4.7	4.3	4.3	3.7	4.3	3.3
LSD VALUE	2.3	4.0	2.5	2.4	2.7	3.0	3.3	3.6	2.5
C.V. (%)	15.2	17.3	14.5	15.0	16.0	18.1	21.3	22.3	27.4

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 12.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 40% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/								RECOVERY	MEAN
	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	QUALITY DEC 1	
DLFPS 321/3679	5.3	3.0	2.7	3.3	5.3	3.7	5.7	3.0	6.0	5.0
LTP-SYN-A3	4.7	3.3	3.0	3.7	4.3	3.7	4.7	3.7	7.3	5.0
BARROBUSTO	5.3	3.0	3.0	3.7	5.3	3.3	6.0	3.3	5.7	4.9
GO-AOMK	4.3	3.0	3.7	3.7	4.3	4.0	5.0	3.0	7.7	4.9
STETSON II	5.3	3.3	2.7	3.3	5.3	3.7	5.3	3.0	6.0	4.9
CATALYST	4.3	3.0	2.7	3.3	4.0	3.3	4.3	3.3	8.0	4.8
DLFPS 321/3678	3.7	3.0	2.7	3.7	4.3	3.3	5.0	3.3	7.7	4.8
MRSL TF15	4.3	3.0	3.7	3.3	5.0	3.7	4.7	3.3	7.0	4.7
PST-5SDS	4.0	2.7	3.0	3.3	4.0	3.7	4.7	3.7	7.7	4.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.3	3.0	2.3	3.3	4.0	3.7	4.3	3.0	7.0	4.7
NONET	4.7	3.0	2.3	3.3	4.0	3.3	5.0	3.3	6.3	4.6
SUPERSONIC	4.0	3.0	3.3	3.3	4.3	3.3	4.3	3.0	6.0	4.6
THOR	3.7	2.7	2.7	2.7	3.7	3.7	4.3	2.7	7.7	4.6
THUNDERSTRUCK	4.7	3.0	2.7	3.0	4.0	3.7	4.7	3.0	6.3	4.6
PST-R511	5.7	2.0	2.3	2.3	5.7	3.0	5.7	3.0	5.7	4.5
DLFPS 321/3677	4.0	3.3	3.0	3.0	4.0	3.7	4.3	3.0	5.3	4.4
KINGDOM	3.3	3.0	3.0	3.3	3.7	3.7	4.0	3.3	7.3	4.4
TITANIUM 2LS	4.7	2.3	2.7	3.3	4.3	3.3	4.7	3.3	6.0	4.4
BAR FA 121095	3.3	3.3	3.0	3.3	3.3	3.3	3.7	3.3	6.7	4.2
RS4	2.7	3.3	3.0	3.7	3.3	4.0	3.3	3.3	7.0	4.2
LSD VALUE	4.8	1.9	1.9	2.0	4.7	1.3	4.6	1.7	2.3	1.6
C.V. (%)	34.6	21.1	22.7	19.2	32.4	12.1	29.2	16.1	15.2	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 13.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 60% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	GENETIC COLOR	PERCENT COVER			PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD)						
		MAY 25	JUNE 27	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22
PST-R511	7.0	93.7	97.0	95.0	86.0	79.7	57.7	59.7	47.0	26.3	31.0
TITANIUM 2LS	7.0	85.0	96.7	95.7	74.0	63.0	48.0	53.3	49.3	32.3	35.0
BARROBUSTO	7.3	90.0	96.0	92.7	77.3	69.3	52.3	55.3	39.7	20.7	31.0
CATALYST	8.7	93.3	96.7	95.0	88.3	84.0	56.0	55.0	42.3	29.0	30.7
DLFPS 321/3678	8.3	95.3	96.7	94.3	89.3	84.0	54.0	56.0	45.3	24.7	28.7
GO-AOMK	8.0	85.3	96.0	94.3	86.7	77.0	54.0	56.3	38.7	17.7	26.3
LTP-SYN-A3	7.7	83.7	96.7	94.7	85.0	76.3	47.7	52.3	41.3	24.3	38.0
RS4	8.0	88.7	94.7	95.0	92.3	93.0	77.7	84.7	70.3	61.7	52.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.7	88.3	96.7	95.3	90.3	86.0	67.3	67.3	49.0	25.0	39.3
DLFPS 321/3679	7.0	81.3	96.0	94.3	84.3	78.3	51.3	51.3	42.7	22.0	31.7
KINGDOM	8.7	91.7	96.0	94.3	87.7	81.7	58.3	57.3	49.0	35.7	39.7
MRSL TF15	8.0	92.3	96.0	93.7	86.7	80.7	61.0	63.0	54.3	39.3	46.0
PST-5SDS	8.3	81.0	96.7	95.0	89.0	83.3	51.7	53.7	40.0	28.3	31.3
SUPERSONIC	8.3	96.0	96.3	93.7	86.0	77.0	44.3	53.3	41.0	25.3	37.0
NONET	8.0	85.3	96.0	95.0	83.7	72.0	52.7	50.0	39.3	23.0	23.7
STETSON II	7.3	89.0	95.7	93.7	86.7	85.3	58.3	59.0	42.7	24.3	32.3
THUNDERSTRUCK	7.0	85.0	96.3	95.0	88.3	84.0	67.3	67.3	54.0	35.3	36.7
BAR FA 121095	8.3	80.0	96.3	95.3	88.7	86.7	56.7	59.3	51.0	30.3	34.0
DLFPS 321/3677	8.3	94.3	96.3	94.7	85.3	78.0	57.0	54.0	38.3	20.7	28.3
THOR	8.0	79.0	96.3	95.3	80.7	77.7	61.7	57.0	48.0	32.7	34.7
LSD VALUE	3.2	26.9	4.1	3.9	28.1	46.0	64.7	66.6	39.6	26.7	27.4
C.V. (%)	13.2	10.4	1.2	1.4	10.0	17.2	31.9	31.8	28.7	41.6	29.6

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 13.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 60% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/									% COVER RECOVERY DEC 1
	AUG 29	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	
PST-R511	44.0	14.0	20.3	30.7	35.3	35.3	38.3	42.0	47.0	80.0
TITANIUM 2LS	39.7	10.7	25.3	32.7	36.3	29.7	33.0	35.0	43.3	75.3
BARROBUSTO	44.7	15.0	29.3	40.0	39.7	34.7	39.3	44.3	50.7	80.3
CATALYST	36.3	12.7	21.7	23.7	30.7	29.3	42.7	47.3	58.7	75.3
DLFPS 321/3678	42.7	18.7	35.7	40.3	43.7	33.0	46.0	51.3	54.7	78.0
GO-AOMK	28.3	9.0	21.7	26.7	26.7	25.7	33.0	34.7	44.0	77.3
LTP-SYN-A3	43.7	12.0	24.3	35.3	38.7	38.0	40.0	43.7	49.0	83.3
RS4	62.3	25.0	44.7	49.3	53.3	43.0	50.3	51.0	61.0	84.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	47.7	11.7	32.0	40.3	47.0	39.7	45.0	44.3	47.3	78.7
DLFPS 321/3679	40.0	10.3	22.3	35.7	38.0	33.3	38.0	39.3	49.0	82.3
KINGDOM	49.3	17.7	29.7	38.0	42.3	36.7	45.7	51.7	61.0	82.3
MRS� TF15	50.7	14.7	23.3	37.3	35.3	33.7	44.7	47.7	53.0	87.3
PST-5SDS	32.3	9.7	20.0	25.3	29.3	26.3	35.0	39.0	50.0	76.7
SUPERSONIC	38.7	14.0	25.0	39.7	40.0	33.0	41.7	48.7	52.7	77.0
NONET	24.0	8.7	19.3	23.0	29.3	27.7	38.0	37.7	50.0	77.0
STETSON II	39.7	10.3	21.3	29.3	36.7	34.0	47.3	46.3	53.3	83.0
THUNDERSTRUCK	43.7	15.7	21.3	32.7	34.0	34.7	36.7	42.7	45.7	79.7
BAR FA 121095	53.7	13.7	31.0	42.3	41.0	38.7	46.3	48.7	58.3	80.7
DLFPS 321/3677	35.0	8.3	19.3	30.7	30.0	31.0	36.3	40.7	46.0	74.3
THOR	43.7	13.0	26.7	32.3	37.0	33.3	46.7	53.0	58.7	85.7
LSD VALUE	36.3	21.6	30.7	24.5	20.2	21.0	30.0	38.8	40.0	18.4
C.V. (%)	32.0	53.7	41.5	28.5	23.2	21.9	23.2	26.0	22.8	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 13.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 60% OF ETO REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22	AUG 29
PST-R511	6.0	6.0	5.0	3.7	5.0	6.0	5.3	5.7	4.0
TITANIUM 2LS	6.7	5.7	5.0	5.7	5.3	5.0	4.7	5.0	4.0
BARROBUSTO	6.3	6.0	5.3	4.3	5.0	4.7	4.3	5.0	4.0
CATALYST	7.0	6.7	5.7	4.3	5.0	5.3	4.0	4.3	3.7
DLFPS 321/3678	7.0	6.3	5.7	4.3	4.7	5.3	4.0	4.3	4.0
GO-AOMK	7.3	6.7	5.3	4.3	5.0	5.0	4.0	4.7	3.3
LTP-SYN-A3	6.7	6.3	5.3	4.7	4.7	5.3	4.0	4.7	4.0
RS4	6.7	6.7	5.7	4.3	4.3	5.0	3.7	3.7	4.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.3	6.3	5.3	4.0	4.7	5.3	4.3	5.0	4.7
DLFPS 321/3679	5.3	5.7	4.7	4.0	4.3	5.3	4.3	5.0	4.0
KINGDOM	7.0	6.7	5.3	4.7	4.0	4.3	3.3	4.0	4.3
MRS� TF15	6.3	6.0	5.3	4.7	4.7	4.3	3.7	4.0	4.3
PST-5SDS	7.0	7.0	5.7	4.7	4.7	5.0	3.3	4.3	3.7
SUPERSONIC	7.0	6.7	5.7	4.7	4.7	5.0	4.0	4.0	4.0
NONET	6.7	5.7	5.0	5.0	4.7	4.7	3.3	4.0	3.3
STETSON II	4.7	6.0	5.3	4.0	4.0	5.0	4.0	4.3	4.0
THUNDERSTRUCK	5.3	5.7	5.0	4.3	5.0	5.3	4.0	4.0	4.3
BAR FA 121095	6.0	6.3	5.7	4.0	4.7	4.3	3.7	3.3	4.7
DLFPS 321/3677	6.3	6.3	5.3	4.3	4.7	4.7	3.7	4.3	3.7
THOR	5.7	6.7	5.7	4.7	4.0	4.7	3.0	3.3	4.0
LSD VALUE	2.6	3.9	2.3	1.7	1.6	1.3	2.1	3.5	1.7
C.V. (%)	16.0	17.0	12.3	14.5	12.5	11.3	20.3	25.8	15.4

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 13.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 60% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/								RECOVERY	MEAN
	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	QUALITY DEC 1	
PST-R511	4.7	4.0	3.3	4.0	4.7	4.0	5.3	4.3	6.0	4.8
TITANIUM 2LS	3.7	3.7	4.0	4.3	3.3	4.3	4.3	4.3	6.7	4.7
BARROBUSTO	4.3	3.3	3.7	4.7	4.0	4.0	4.7	4.3	6.3	4.6
CATALYST	4.3	3.3	3.7	4.3	4.0	4.3	4.0	4.3	7.0	4.6
DLFPS 321/3678	3.3	4.0	4.0	4.3	3.7	4.0	4.3	4.3	7.0	4.6
GO-AOMK	3.7	3.7	4.0	4.3	4.0	4.0	4.0	3.7	7.3	4.6
LTP-SYN-A3	4.7	3.3	4.3	4.0	3.7	4.0	4.0	4.3	6.7	4.6
RS4	2.7	5.3	4.3	4.7	3.0	4.7	3.3	5.0	6.7	4.6
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.3	4.0	4.0	4.3	3.7	4.0	4.3	4.0	6.3	4.6
DLFPS 321/3679	4.3	3.7	4.0	4.3	4.3	4.0	4.7	4.0	5.3	4.5
KINGDOM	2.7	4.3	4.3	4.7	2.7	4.7	3.3	4.7	7.0	4.5
MRS� TF15	3.3	4.0	4.3	4.3	3.3	4.3	4.0	4.3	6.3	4.5
PST-5SDS	3.3	3.7	4.0	4.3	3.3	4.0	3.3	4.3	7.0	4.5
SUPERSONIC	3.7	4.0	3.7	4.3	3.3	4.0	4.0	4.3	7.0	4.5
NONET	3.3	3.7	4.0	4.3	3.7	4.0	3.7	4.3	6.7	4.4
STETSON II	4.3	4.0	4.0	4.0	4.0	4.0	4.3	4.3	4.7	4.4
THUNDERSTRUCK	3.3	4.0	3.7	4.3	3.3	4.3	3.7	4.3	5.3	4.4
BAR FA 121095	2.7	4.0	4.0	4.7	3.0	4.0	3.0	5.0	6.0	4.3
DLFPS 321/3677	3.0	3.3	3.7	4.0	3.3	4.0	4.0	4.3	6.3	4.3
THOR	2.3	3.7	4.0	4.7	3.0	4.3	3.0	4.7	5.7	4.3
LSD VALUE	3.4	1.7	1.3	1.4	3.1	1.2	3.7	1.5	2.6	1.1
C.V. (%)	32.9	17.0	11.3	9.9	27.2	9.5	29.1	11.9	16.0	7.1

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP  
 TABLE 14. PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
 APPROACH 2 WITH 80% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
 2017 DATA

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

NAME	GENETIC COLOR	PERCENT COVER			PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD)						
		MAY 25	JUNE 27	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22
LTP-SYN-A3	8.0	92.3	96.7	96.3	83.0	77.0	73.3	75.0	69.7	71.3	77.0
THUNDERSTRUCK	8.3	88.3	95.7	95.3	89.7	90.7	87.0	87.3	80.3	73.7	72.7
NONET	8.7	90.0	95.7	95.3	84.7	78.3	64.7	64.3	57.3	52.7	61.0
DLFPS 321/3677	8.0	93.7	95.0	95.0	88.0	85.7	79.0	76.0	70.0	62.0	62.7
DLFPS 321/3678	8.0	94.3	95.3	95.0	86.3	85.7	77.0	75.7	65.7	60.3	66.3
GO-AOMK	8.0	94.0	94.7	94.7	84.7	79.3	68.7	68.0	63.0	49.0	54.7
MRSL TF15	7.7	87.3	95.7	95.3	84.0	82.0	71.3	65.7	61.3	47.3	56.0
PST-R511	8.7	84.0	97.3	96.0	84.3	78.7	67.7	66.3	64.7	56.0	64.7
RS4	8.3	95.3	96.3	95.7	94.3	95.0	88.7	88.3	82.7	72.3	72.3
THOR	8.0	91.3	95.3	95.7	93.0	92.3	88.7	85.0	77.0	70.0	69.7
DLFPS 321/3679	8.0	86.3	95.7	96.0	84.7	78.7	57.0	61.3	58.7	57.0	61.3
STETSON II	8.0	93.7	96.0	93.3	80.7	77.3	58.7	54.0	55.3	47.3	50.7
CATALYST	8.0	94.0	95.3	95.0	82.3	80.0	65.0	61.0	57.3	50.0	56.0
PST-5SDS	7.7	90.7	95.3	94.0	82.0	80.0	77.3	73.3	70.3	68.0	72.0
SUPERSONIC	8.0	95.0	96.0	95.0	82.3	78.7	72.7	71.0	63.3	62.7	70.3
BARROBUSTO	8.0	93.7	95.3	94.7	58.7	50.7	43.3	52.0	46.7	42.0	47.3
KINGDOM	8.3	94.7	95.7	94.0	85.0	79.0	61.0	56.7	51.0	43.7	51.7
BAR FA 121095	8.0	82.5	95.3	93.0	84.0	78.0	62.3	56.3	53.0	47.0	53.7
TITANIUM 2LS	7.7	91.3	96.0	95.7	77.3	70.7	61.3	49.7	47.7	38.3	45.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.7	94.7	96.0	94.7	66.7	59.7	65.0	61.3	57.0	36.0	40.0
LSD VALUE	2.5	18.3	1.9	4.3	28.8	49.6	68.6	69.5	51.0	43.7	34.2
C.V. (%)	8.5	6.7	0.8	1.6	13.9	21.6	31.1	32.3	27.7	31.0	23.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 14.  
(CONT'D)  
PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 80% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

NAME	PERCENT GREEN COVER FROM JULY 3 THROUGH OCTOBER 24 (DROUGHT PERIOD) 3/									% COVER RECOVERY DEC 1
	AUG 29	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	
LTP-SYN-A3	88.0	63.0	73.3	80.7	86.0	73.7	79.7	91.0	93.0	95.7
THUNDERSTRUCK	83.3	57.3	74.0	77.7	85.0	75.7	80.0	87.7	87.0	93.0
NONET	72.0	45.3	57.3	71.3	83.7	74.3	78.7	86.7	87.7	94.0
DLFPS 321/3677	79.0	55.0	74.3	79.7	82.0	73.0	77.7	87.3	86.3	94.3
DLFPS 321/3678	79.3	54.7	67.0	78.3	85.7	78.3	79.7	88.7	89.0	95.3
GO-AOMK	76.3	33.7	52.0	67.7	69.3	65.7	69.7	82.0	80.3	91.7
MRSL TF15	74.7	42.7	61.0	75.7	84.7	75.0	76.7	85.0	84.7	93.7
PST-R511	78.3	41.0	58.3	74.0	82.0	72.7	78.0	85.7	88.7	94.3
RS4	90.0	67.0	82.0	87.3	91.0	81.7	88.0	94.0	91.7	92.7
THOR	82.0	56.7	72.7	82.0	89.7	83.3	83.7	92.0	92.0	94.0
DLFPS 321/3679	73.0	47.7	59.0	73.3	81.0	69.3	67.3	81.0	79.7	92.0
STETSON II	61.7	43.0	58.3	60.7	79.0	62.3	71.7	80.7	83.3	91.7
CATALYST	64.3	53.3	65.7	69.3	82.0	67.0	76.7	83.3	81.7	90.0
PST-5SDS	82.3	57.7	71.0	76.3	81.0	73.7	78.0	88.7	91.0	93.3
SUPERSONIC	80.3	54.3	71.3	80.3	83.0	72.3	77.7	83.7	86.3	91.7
BARROBUSTO	56.7	36.0	46.3	57.7	65.3	54.3	57.0	69.7	69.3	89.3
KINGDOM	64.3	37.7	50.3	64.7	76.0	74.3	72.7	82.0	84.7	91.3
BAR FA 121095	58.3	38.7	56.3	69.7	80.7	74.3	71.3	85.3	79.3	92.3
TITANIUM 2LS	57.7	34.3	51.3	60.3	71.0	60.3	66.0	76.3	72.7	87.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	51.0	34.3	40.0	52.7	67.0	54.0	53.3	74.3	66.0	89.3
LSD VALUE	34.4	34.5	40.5	42.0	44.8	48.4	40.2	30.3	27.0	10.4
C.V. (%)	20.5	29.9	25.7	20.6	17.3	21.5	18.8	12.2	12.8	3.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 14.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 80% OF ETo REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/

NAME	JULY 3	JULY 11	JULY 18	JULY 25	AUG 1	AUG 8	AUG 15	AUG 22	AUG 29
LTP-SYN-A3	7.3	7.3	6.7	5.0	5.7	6.0	5.0	5.3	6.0
THUNDERSTRUCK	7.0	7.7	7.0	5.0	5.3	6.0	4.3	5.0	6.3
NONET	8.0	8.3	7.3	5.7	5.3	6.3	4.3	5.7	5.0
DLFPS 321/3677	6.7	7.3	6.3	5.3	5.3	5.7	4.3	4.7	5.0
DLFPS 321/3678	7.3	6.3	6.0	6.0	5.0	6.0	4.3	5.0	5.0
GO-AOMK	7.0	7.0	6.3	5.3	6.0	6.0	5.3	5.7	5.3
MRSL TF15	7.0	7.0	6.3	6.3	5.3	5.7	5.0	5.0	5.0
PST-R511	7.0	6.3	6.0	5.7	6.0	6.3	5.0	5.7	5.0
RS4	7.7	7.3	6.7	5.3	5.0	5.0	3.7	4.7	5.7
THOR	7.7	7.7	6.3	5.3	5.7	5.7	4.3	4.7	5.3
DLFPS 321/3679	6.0	6.7	6.7	5.3	6.0	6.3	4.7	5.3	5.0
STETSON II	6.7	7.0	6.7	6.0	5.7	5.7	4.7	5.0	5.0
CATALYST	7.7	7.3	6.7	5.3	5.7	6.0	4.3	5.0	4.7
PST-5SDS	7.0	6.7	6.0	5.0	5.0	5.0	4.3	4.7	5.3
SUPERSONIC	6.7	7.0	6.3	5.3	5.0	5.0	4.3	4.7	5.3
BARROBUSTO	6.3	6.3	6.3	5.0	5.3	6.0	4.7	5.0	4.7
KINGDOM	7.7	7.3	5.7	5.7	5.3	5.7	4.7	5.7	4.7
BAR FA 121095	5.7	6.7	6.0	6.0	4.3	5.3	4.0	4.0	5.0
TITANIUM 2LS	6.3	6.7	6.7	6.0	5.0	5.7	4.3	5.3	4.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	7.3	6.7	5.0	4.7	5.7	4.0	5.0	4.7
LSD VALUE	2.6	2.5	2.2	2.1	2.6	3.2	2.7	2.7	1.1
C.V. (%)	13.7	12.2	11.2	13.0	15.5	16.2	18.2	16.7	10.1

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 14.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING  
APPROACH 2 WITH 80% OF ETO REPLACEMENT AT RIVERSIDE, CA 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS JULY 11 THROUGH OCTOBER 24 3/								RECOVERY	MEAN
	SEPT 5	SEPT 12	SEPT 19	SEPT 26	OCT 3	OCT 10	OCT 17	OCT 24	QUALITY DEC 1	
LTP-SYN-A3	4.3	6.0	6.0	6.0	4.3	5.3	4.7	6.0	7.3	5.8
THUNDERSTRUCK	4.0	6.0	5.7	5.7	4.3	5.7	4.3	6.0	7.0	5.7
NONET	5.0	4.7	5.3	5.0	4.0	5.0	4.3	5.7	8.0	5.6
DLFPS 321/3677	3.7	5.0	5.7	5.0	4.3	5.3	4.7	5.7	6.7	5.4
DLFPS 321/3678	4.3	5.0	5.3	5.3	3.7	5.3	4.3	6.0	7.3	5.4
GO-AOMK	5.0	4.0	5.3	4.3	4.7	4.7	4.7	5.0	7.0	5.4
MRSL TF15	4.7	5.0	5.0	4.7	4.3	4.7	4.7	5.3	7.0	5.4
PST-R511	5.3	4.7	4.7	4.7	4.7	4.7	5.0	5.3	7.0	5.4
RS4	3.0	6.0	6.0	6.3	3.0	6.0	3.3	6.3	7.7	5.4
THOR	3.3	5.3	5.7	5.7	3.3	5.7	3.7	6.0	7.7	5.4
DLFPS 321/3679	4.7	4.7	5.0	5.0	4.3	4.3	4.7	4.7	6.0	5.3
STETSON II	4.3	4.7	4.7	4.7	4.0	4.7	4.3	5.3	6.7	5.3
CATALYST	4.3	4.7	4.7	4.7	4.3	4.3	4.3	5.0	7.7	5.2
PST-5SDS	3.7	5.3	5.3	5.7	3.3	5.3	4.0	6.0	7.0	5.2
SUPERSONIC	4.0	5.0	5.3	5.7	3.3	5.0	4.3	6.0	6.7	5.2
BARROBUSTO	4.7	4.3	4.3	4.7	4.3	4.7	4.7	4.7	6.3	5.1
KINGDOM	3.7	4.0	4.0	4.7	3.7	4.7	4.3	5.0	7.7	5.1
BAR FA 121095	2.7	5.0	5.0	5.3	3.3	5.3	3.7	5.7	5.7	5.0
TITANIUM 2LS	4.0	4.3	4.3	4.3	4.0	4.0	4.3	5.0	6.3	5.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.0	4.0	4.0	4.0	3.7	4.3	4.0	4.3	7.0	4.9
LSD VALUE	3.6	1.7	2.0	2.9	3.0	2.4	3.9	2.2	2.6	1.3
C.V. (%)	28.8	15.9	16.2	20.2	23.9	17.5	24.5	15.4	13.7	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 15.

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	GENETIC COLOR	PRE-DROUGHT PERIOD		DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/							
		% COVER MAY 31	QUALITY MAY 31	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26
EVEREST	5.7	92.3	8.0	95.0	85.7	65.0	65.3	70.0	72.0	91.7	98.3
PST-K11-118	5.0	92.3	7.0	90.3	84.3	63.3	57.3	61.0	48.3	87.7	99.0
NAI-13-14	6.3	90.7	7.7	80.0	66.0	43.3	43.0	54.0	45.7	70.3	98.7
BLUE DEVIL	6.3	92.3	7.3	89.7	77.0	66.0	58.0	66.3	52.7	79.3	99.0
BARRARI	4.7	90.3	7.3	84.3	72.0	45.7	29.7	29.7	17.7	61.7	98.0
BLUE NOTE	5.0	92.3	7.7	90.3	84.3	61.3	46.3	39.0	32.3	54.7	96.0
PST-K13-141	6.3	91.3	7.0	72.7	72.3	62.0	50.3	59.0	46.7	76.0	99.0
PST-K15-169	7.3	93.3	7.7	89.0	72.7	57.3	43.0	53.3	34.0	63.7	98.3
NAI-13-132	5.7	88.7	7.0	83.7	64.0	47.3	47.0	50.3	50.7	64.7	88.7
BABE	4.3	89.3	6.7	72.7	54.3	58.3	50.7	58.7	28.0	51.3	94.0
DAUNTLESS	5.5	95.5	6.7	87.7	75.0	54.0	39.7	51.0	34.3	53.3	96.3
BAR PP 110358	6.3	95.3	8.3	78.0	40.0	25.3	22.0	37.7	19.0	64.0	98.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.3	93.3	8.3	83.7	61.0	52.3	46.0	43.7	36.0	45.3	73.0
PST-K13-143	5.7	84.3	6.3	75.7	60.3	48.0	31.0	38.3	6.7	50.0	93.3
PST-K13-137	4.0	72.7	4.3	48.3	35.7	26.0	19.3	26.7	18.7	50.3	90.3
MIDNIGHT	5.3	83.7	6.3	59.3	40.7	26.7	24.0	25.0	9.7	28.3	95.3
LSD VALUE	2.6	13.6	3.1	37.2	57.3	80.1	89.5	95.1	87.4	76.8	25.0
C.V. (%)	20.7	7.2	18.6	20.2	35.3	53.0	67.6	62.6	89.0	44.6	10.4

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 15.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/								
	AUG 2	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27
EVEREST	99.0	99.0	95.7	97.3	98.3	92.7	83.3	75.7	74.7
PST-K11-118	99.0	99.0	95.3	97.3	99.0	90.0	71.3	64.0	57.3
NAI-13-14	99.0	99.0	96.3	98.3	98.7	92.0	80.7	62.3	67.0
BLUE DEVIL	99.0	97.3	78.7	84.0	89.0	70.0	48.0	39.0	37.7
BARRARI	98.7	93.7	84.0	86.0	92.7	77.7	54.3	51.3	50.3
BLUE NOTE	99.0	99.0	98.0	98.0	98.7	87.0	50.7	54.3	63.3
PST-K13-141	99.0	98.3	68.7	87.7	93.7	61.7	33.0	33.7	37.0
PST-K15-169	99.0	97.7	72.3	89.3	94.3	85.0	57.0	57.0	57.0
NAI-13-132	96.7	88.7	79.0	81.3	91.0	82.3	73.0	69.7	68.7
BABE	97.7	80.7	68.3	75.0	79.7	67.3	46.3	53.0	61.3
DAUNTLESS	99.0	94.3	63.7	79.0	88.7	47.3	28.3	26.3	32.3
BAR PP 110358	98.3	97.7	63.3	66.3	87.3	42.3	31.0	28.7	32.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	74.3	65.7	53.0	57.7	59.3	52.3	41.3	42.3	47.3
PST-K13-143	94.7	87.7	65.7	76.0	86.0	55.0	25.0	24.3	31.7
PST-K13-137	98.0	98.0	93.0	94.0	96.3	83.3	60.0	48.7	55.0
MIDNIGHT	94.3	87.7	50.3	51.3	74.7	39.3	17.7	15.3	26.3
LSD VALUE	11.0	31.9	71.8	52.5	40.3	58.7	71.8	78.9	79.3
C.V. (%)	6.1	14.0	34.1	25.5	17.7	35.5	57.9	61.9	54.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 15.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD COLOR RATINGS				DROUGHT PERIOD DENSITY				DROUGHT PERIOD UNIFORMITY RATINGS			
	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13
EVEREST	6.7	6.7	7.0	6.7	5.7	6.3	5.7	4.7	7.7	6.0	6.0	6.3
PST-K11-118	5.3	5.0	6.0	5.7	5.3	4.3	4.7	2.3	6.7	5.3	5.7	5.7
NAI-13-14	5.0	5.3	7.7	7.0	5.3	5.0	5.7	4.0	6.3	4.3	6.0	6.7
BLUE DEVIL	5.3	5.7	5.7	5.0	5.7	4.7	4.0	3.3	7.3	5.3	5.3	5.7
BARRARI	4.3	3.3	5.3	4.7	5.3	2.7	3.0	2.0	6.7	4.3	6.3	5.0
BLUE NOTE	5.3	3.7	6.0	4.7	6.0	4.0	4.0	2.0	6.3	3.3	6.7	4.0
PST-K13-141	5.7	5.0	5.0	4.0	4.7	5.3	3.0	2.3	4.7	5.7	5.0	5.7
PST-K15-169	5.3	4.7	5.7	5.3	5.3	5.7	3.0	2.3	5.0	4.0	5.0	5.3
NAI-13-132	4.7	4.7	6.3	6.7	5.7	4.7	4.0	5.0	6.0	5.0	6.0	5.3
BABE	3.7	4.3	5.0	4.3	4.7	3.7	3.3	3.0	5.0	3.7	5.0	5.3
DAUNTLESS	5.0	4.3	4.3	3.0	6.0	4.3	3.0	2.0	6.7	6.0	5.7	4.3
BAR PP 110358	3.0	3.3	5.0	3.0	4.0	3.7	2.7	2.3	5.0	4.3	4.3	5.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	5.3	5.0	5.3	5.0	5.0	5.7	4.7	3.3	5.0	5.3	6.0	5.0
PST-K13-143	4.3	3.0	5.3	3.7	5.3	3.3	4.0	2.0	3.7	4.0	4.7	3.7
PST-K13-137	3.3	4.0	7.3	6.0	5.0	4.7	4.7	2.7	6.7	3.7	6.7	6.0
MIDNIGHT	3.3	3.0	4.3	3.3	6.0	3.3	4.0	2.3	4.3	4.0	5.0	5.0
LSD VALUE	4.6	4.5	5.0	4.0	2.6	5.1	4.8	3.0	3.8	4.0	4.6	2.8
C.V. (%)	35.2	37.3	30.4	35.3	17.6	39.8	42.1	44.8	27.5	31.3	26.4	21.3

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 15.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	AUG 2
EVEREST	7.7	5.7	5.0	5.3	5.3	4.0	5.3	6.3	7.7
PST-K11-118	6.3	6.3	5.3	4.7	4.3	3.7	5.0	6.7	6.3
NAI-13-14	6.3	5.0	3.7	4.3	3.7	3.3	4.3	6.0	6.7
BLUE DEVIL	7.0	5.0	5.0	5.0	4.0	4.0	6.0	6.3	7.0
BARRARI	6.0	5.7	4.7	4.3	3.0	2.3	4.3	6.0	6.0
BLUE NOTE	7.7	5.7	5.3	4.0	3.0	3.0	3.7	5.3	5.3
PST-K13-141	5.3	5.3	4.7	4.7	4.7	3.3	5.3	6.3	6.7
PST-K15-169	5.0	4.7	4.3	4.0	4.0	3.0	4.3	5.3	6.0
NAI-13-132	5.3	5.0	4.3	4.0	3.3	3.7	4.7	5.3	5.0
BABE	6.0	4.7	4.3	4.7	3.7	2.3	3.7	4.7	5.0
DAUNTLESS	6.0	5.3	5.0	4.0	4.0	2.7	4.0	5.7	6.0
BAR PP 110358	5.7	4.0	3.3	3.7	3.0	2.0	4.3	6.0	6.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.3	5.3	4.3	3.7	3.3	3.3	4.3	4.7	5.0
PST-K13-143	5.0	5.3	5.0	4.0	3.7	1.3	3.3	5.0	5.3
PST-K13-137	4.3	4.0	3.3	3.3	2.7	2.0	4.0	4.3	5.7
MIDNIGHT	4.3	4.0	2.7	2.7	2.3	1.3	2.3	4.7	5.0
LSD VALUE	4.5	3.5	6.8	4.5	3.1	5.3	3.8	3.1	3.7
C.V. (%)	27.9	23.7	45.6	34.3	32.5	60.6	32.8	21.0	22.8

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 15.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27	MEAN
EVEREST	7.7	6.0	7.0	6.7	5.7	4.0	6.0	5.7	6.1
PST-K11-118	7.7	5.3	6.3	6.0	5.3	4.3	5.7	4.7	5.6
NAI-13-14	7.0	5.3	6.7	7.0	5.3	4.7	5.3	4.7	5.4
BLUE DEVIL	6.3	4.7	5.7	6.3	4.0	3.7	4.7	3.7	5.3
BARRARI	6.3	4.7	5.7	6.3	4.7	4.3	5.0	4.3	5.1
BLUE NOTE	6.7	5.7	6.0	6.3	4.3	3.0	4.7	4.7	5.1
PST-K13-141	6.7	4.7	5.3	6.3	4.7	2.7	4.0	3.3	5.1
PST-K15-169	6.3	4.7	5.7	6.3	4.7	3.7	5.0	4.7	5.0
NAI-13-132	5.7	4.7	5.0	6.7	4.7	4.0	5.0	4.0	4.9
BABE	5.7	4.7	5.0	5.0	4.7	3.3	4.3	4.0	4.6
DAUNTLESS	5.3	4.7	5.0	6.3	3.7	2.3	3.3	3.3	4.6
BAR PP 110358	6.3	4.0	5.0	5.3	3.7	2.3	3.0	2.7	4.4
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.3	4.0	4.0	6.0	2.7	2.7	3.7	2.7	4.4
PST-K13-143	5.7	3.7	5.0	6.3	3.3	2.3	4.0	3.0	4.3
PST-K13-137	5.3	5.0	5.0	6.3	4.0	4.0	4.3	3.7	4.2
MIDNIGHT	5.3	3.7	4.0	5.0	3.3	2.0	3.0	2.0	3.6
LSD VALUE	4.8	5.3	4.6	5.0	3.0	3.8	5.1	4.0	3.3
C.V. (%)	26.5	33.8	28.7	24.0	27.9	42.3	38.2	39.5	23.3

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 16.

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	GENETIC COLOR	PRE-DROUGHT PERIOD		DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27								3/
		% COVER MAY 31	QUALITY MAY 31	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	
BLUE NOTE	5.3	95.3	7.7	94.3	94.7	88.3	79.0	86.7	80.7	96.3	99.0	
NAI-13-132	6.0	94.0	8.7	92.0	84.7	67.3	60.0	77.3	80.7	95.3	99.0	
BARRARI	4.3	95.7	7.7	95.3	94.3	83.0	76.7	85.3	80.7	97.3	99.0	
EVEREST	5.0	93.7	8.0	90.7	87.3	79.0	75.7	84.7	82.3	95.0	97.7	
PST-K13-141	5.0	96.3	7.7	96.0	94.7	88.3	81.7	90.0	81.0	97.7	98.7	
BAR PP 110358	5.3	97.7	7.7	96.0	90.3	85.3	75.7	89.3	88.7	97.0	99.0	
DAUNTLESS	4.3	95.7	7.7	96.0	91.0	80.3	78.0	92.7	87.3	97.7	98.7	
PST-K13-143	4.7	94.7	7.7	93.3	92.0	82.7	84.0	85.7	71.3	93.7	98.0	
BABE	4.3	92.7	7.7	91.7	83.3	66.0	58.0	86.3	84.7	98.0	99.0	
BLUE DEVIL	5.7	92.3	8.3	90.7	83.3	68.7	56.7	74.3	70.0	93.0	98.7	
PST-K11-118	4.0	93.7	8.0	88.7	81.7	71.7	61.3	77.3	66.3	97.3	99.0	
NAI-13-14	5.0	87.0	5.7	82.0	72.7	67.0	54.3	65.7	63.3	96.0	99.0	
MIDNIGHT	4.7	91.0	7.7	84.0	75.7	59.7	44.7	58.3	52.7	89.0	98.7	
PST-K15-169	6.3	96.0	7.7	92.3	84.3	72.0	51.0	63.7	54.3	72.0	99.0	
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.0	96.3	9.0	91.7	82.7	69.7	59.3	76.3	72.0	92.7	98.0	
PST-K13-137	3.7	76.0	5.0	55.0	56.7	51.7	56.3	69.0	65.3	94.0	98.0	
LSD VALUE	2.6	10.8	1.4	9.3	18.5	28.0	53.8	39.3	47.8	13.7	2.3	
C.V. (%)	21.4	5.9	10.9	6.6	11.6	17.5	30.4	19.6	24.2	7.3	0.8	

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 16.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 2	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27
BLUE NOTE	99.0	99.0	98.3	98.7	98.7	97.7	94.7	87.3	90.3
NAI-13-132	99.0	99.0	95.3	96.3	97.7	87.3	69.3	60.3	64.7
BARRARI	99.0	99.0	97.3	98.7	97.0	80.0	72.0	76.7	85.0
EVEREST	99.0	99.0	97.3	97.3	98.0	92.7	83.0	76.7	71.3
PST-K13-141	99.0	99.0	98.7	99.0	99.0	95.7	90.0	83.3	83.0
BAR PP 110358	99.0	99.0	97.0	95.7	99.0	97.7	90.0	83.7	82.3
DAUNTLESS	99.0	99.0	94.3	96.3	96.0	75.3	57.0	50.7	52.0
PST-K13-143	99.0	98.7	97.3	97.7	98.0	91.7	73.7	70.0	66.3
BABE	99.0	98.7	89.0	93.3	96.7	86.7	61.3	48.3	44.7
BLUE DEVIL	99.0	99.0	95.3	94.3	96.3	83.0	61.7	55.0	56.0
PST-K11-118	99.0	98.7	92.3	97.7	98.7	78.0	63.7	56.0	56.3
NAI-13-14	99.0	97.7	88.7	94.3	98.0	92.0	82.3	70.0	66.0
MIDNIGHT	99.0	99.0	95.7	96.3	97.7	89.3	63.0	58.7	48.0
PST-K15-169	99.0	98.3	92.3	94.7	97.0	83.0	70.0	59.7	55.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	98.0	95.3	65.7	88.7	84.7	46.0	35.0	32.0	37.7
PST-K13-137	97.3	98.0	95.0	96.3	98.0	94.3	81.7	75.0	71.7
LSD VALUE	1.9	1.3	13.8	12.8	2.7	43.5	90.4	101.4	103.3
C.V. (%)	0.7	0.8	8.1	4.7	1.8	20.8	41.4	49.2	50.7

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 16.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD COLOR RATINGS				DROUGHT PERIOD DENSITY				DROUGHT PERIOD UNIFORMITY RATINGS			
	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13
BLUE NOTE	6.0	6.3	6.0	7.3	5.7	5.0	3.0	3.7	7.7	6.3	6.3	6.0
NAI-13-132	6.0	7.0	6.7	6.3	6.0	7.3	3.3	4.0	7.0	7.0	6.0	6.3
BARRARI	5.7	6.0	6.0	5.7	5.0	6.0	2.7	2.3	6.7	6.3	5.3	5.7
EVEREST	6.0	7.0	7.0	7.3	5.7	5.0	3.7	4.0	7.0	6.7	6.7	6.3
PST-K13-141	5.7	6.3	6.3	6.7	5.7	5.7	2.3	3.0	7.0	5.7	6.7	6.0
BAR PP 110358	5.7	7.0	5.7	6.7	5.3	6.7	2.7	2.3	6.3	7.0	6.0	5.0
DAUNTLESS	5.3	6.3	6.0	5.3	5.0	5.3	2.7	2.0	6.7	6.3	5.7	5.0
PST-K13-143	5.7	6.0	6.7	6.0	5.0	6.7	3.0	3.0	6.0	5.7	6.3	6.0
BABE	5.0	6.3	5.3	5.3	5.0	4.7	2.7	2.3	7.0	6.7	6.3	5.3
BLUE DEVIL	6.0	6.7	6.7	6.0	5.7	6.7	3.3	2.7	6.3	5.0	5.7	5.7
PST-K11-118	4.7	6.0	5.7	5.0	5.0	6.0	2.7	2.3	7.0	5.7	6.0	6.3
NAI-13-14	4.7	6.0	6.3	6.7	6.0	6.3	3.0	3.7	5.3	5.7	5.3	5.7
MIDNIGHT	4.7	5.7	6.3	5.7	5.3	6.3	3.3	2.7	7.0	5.7	6.0	5.0
PST-K15-169	5.7	5.3	5.7	6.0	5.7	6.3	2.3	3.3	6.7	6.3	5.7	5.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.0	7.0	5.3	4.7	6.7	6.3	2.7	2.3	7.0	6.3	5.7	6.3
PST-K13-137	4.3	6.7	7.3	7.0	6.3	7.7	3.7	3.7	6.3	6.7	5.7	5.7
LSD VALUE	1.5	2.3	1.0	4.9	1.7	5.0	1.3	3.1	2.2	3.5	2.8	3.4
C.V. (%)	12.6	13.2	8.6	26.0	12.9	26.8	18.8	38.2	12.5	18.3	15.0	18.5

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 16.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	AUG 2
BLUE NOTE	8.0	7.3	6.7	6.0	6.3	6.0	6.7	6.7	7.0
NAI - 13-132	7.7	8.0	5.7	5.3	4.7	5.7	8.3	7.3	7.7
BARRARI	8.0	7.7	7.0	5.7	5.3	5.0	7.7	6.7	6.7
EVEREST	7.3	6.7	6.7	5.0	6.0	5.7	7.7	7.7	7.0
PST-K13-141	7.7	7.3	6.7	6.3	6.7	5.3	7.3	7.0	7.0
BAR PP 110358	7.7	6.7	6.0	5.0	5.7	5.7	7.7	6.7	6.7
DAUNTLESS	8.0	7.0	6.7	5.7	6.0	5.7	7.0	6.7	7.0
PST-K13-143	7.3	7.0	6.7	5.3	5.3	4.7	6.3	6.7	6.7
BABE	8.0	6.7	5.3	5.0	6.0	6.3	8.0	6.3	7.0
BLUE DEVIL	7.7	6.7	5.7	5.0	4.3	4.3	6.7	7.7	7.3
PST-K11-118	7.0	7.0	6.3	4.3	5.3	5.0	6.0	6.3	6.7
NAI-13-14	6.0	6.3	5.3	4.3	5.0	4.7	7.3	7.0	7.0
MIDNIGHT	7.0	6.0	5.3	3.7	3.7	4.3	7.0	7.3	7.0
PST-K15-169	7.3	6.3	5.3	3.7	5.0	5.0	6.7	6.3	6.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	8.3	7.3	5.0	4.3	4.0	4.7	6.7	8.3	8.3
PST-K13-137	4.7	4.3	4.0	3.7	4.7	4.7	6.0	6.3	7.3
LSD VALUE	1.9	2.0	1.9	3.3	3.1	4.3	2.8	0.9	1.5
C.V. (%)	13.0	14.2	15.6	25.8	23.5	26.0	15.1	7.4	9.5

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 16.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27	MEAN
BLUE NOTE	7.3	6.0	7.3	7.0	6.0	5.7	6.7	6.0	6.7
NAI-13-132	8.0	6.3	7.3	7.7	5.0	4.3	5.3	5.0	6.6
BARRARI	7.3	5.7	7.3	7.3	5.7	4.7	6.0	5.7	6.5
EVEREST	7.7	6.0	7.0	7.7	4.7	5.3	5.7	6.0	6.5
PST-K13-141	7.3	5.7	6.7	7.3	5.3	4.7	6.0	5.3	6.5
BAR PP 110358	7.7	6.3	7.3	6.7	5.7	5.0	5.3	5.3	6.4
DAUNTLESS	7.7	5.0	6.0	7.3	5.0	4.7	5.0	4.7	6.3
PST-K13-143	7.7	6.0	7.0	7.7	6.0	5.0	6.0	4.7	6.3
BABE	7.3	5.0	6.7	7.7	4.7	4.7	5.0	4.3	6.2
BLUE DEVIL	7.7	5.7	7.3	7.7	4.7	4.0	5.7	5.0	6.2
PST-K11-118	6.7	5.7	7.0	7.0	6.0	4.3	5.0	4.3	6.0
NAI-13-14	7.3	5.7	6.3	7.3	5.7	5.0	6.0	5.0	5.9
MIDNIGHT	7.0	5.0	6.7	7.7	5.0	4.3	4.7	4.3	5.8
PST-K15-169	7.0	5.0	6.3	7.0	4.7	4.0	5.0	4.3	5.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	8.0	4.0	4.0	6.3	2.7	2.3	3.7	3.3	5.6
PST-K13-137	7.3	5.3	6.3	7.7	4.7	5.0	5.7	6.0	5.5
LSD VALUE	2.2	2.1	1.8	2.1	2.2	3.9	3.9	4.1	1.5
C.V. (%)	9.5	15.7	13.5	9.9	19.7	29.6	24.1	28.1	9.3

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 17.

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	GENETIC COLOR	PRE-DROUGHT PERIOD		DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/							
		% COVER MAY 31	QUALITY MAY 31	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26
NAI-13-14	5.7	91.7	7.0	96.3	95.0	91.7	93.3	96.0	94.7	99.0	98.3
BLUE DEVIL	5.3	92.7	7.0	95.0	93.7	90.3	93.0	95.3	95.7	98.7	98.7
PST-K11-118	4.7	91.3	7.3	95.3	95.3	93.0	96.0	98.3	97.0	99.0	98.3
MIDNIGHT	6.3	94.3	6.7	94.7	94.3	91.0	93.3	96.7	95.3	98.7	98.3
NAI-13-132	5.3	92.0	6.7	94.7	93.3	88.7	92.3	96.7	94.0	98.3	97.3
PST-K13-143	4.7	91.7	7.0	94.3	93.3	89.3	75.7	97.0	92.3	97.7	97.7
EVEREST	6.0	96.3	7.3	96.7	94.0	89.0	88.0	85.3	87.0	98.3	98.7
BAR PP 110358	4.7	97.7	7.0	90.0	97.3	97.0	97.7	99.0	98.7	98.3	99.0
BLUE NOTE	5.3	94.7	7.7	96.3	96.7	95.0	79.0	98.0	95.3	99.0	98.0
PST-K15-169	6.3	97.0	6.7	96.7	97.3	95.0	96.0	98.0	95.7	98.7	98.3
BARRARI	3.0	93.7	7.0	94.3	94.3	87.7	92.0	96.7	93.3	99.0	98.0
PST-K13-141	6.7	96.7	8.0	98.0	96.3	94.3	96.7	98.3	95.0	99.0	97.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.3	96.0	9.0	96.3	94.0	91.7	87.7	91.0	87.7	93.0	95.0
BABE	4.3	91.7	7.3	93.3	94.0	82.3	89.0	95.7	92.3	98.7	97.7
DAUNTLESS	4.3	89.7	7.0	95.3	92.3	85.3	87.3	89.7	84.7	99.0	97.7
PST-K13-137	4.0	82.0	5.3	89.0	80.0	73.0	76.0	88.0	85.7	96.7	96.3
LSD VALUE	1.7	6.9	1.8	11.4	5.4	7.6	28.7	14.3	17.8	3.9	1.8
C.V. (%)	18.2	4.0	12.0	4.3	3.4	5.0	12.2	6.2	7.2	1.8	1.0

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 17.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 2	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27
NAI-13-14	99.0	99.0	95.0	97.3	98.3	97.3	95.0	92.7	93.7
BLUE DEVIL	99.0	99.0	96.0	98.0	98.0	97.7	96.7	93.3	95.7
PST-K11-118	99.0	99.0	96.7	98.3	98.7	98.7	94.3	95.3	96.0
MIDNIGHT	99.0	99.0	92.7	96.7	97.7	96.0	89.7	81.7	81.0
NAI-13-132	99.0	98.7	97.0	98.0	98.3	97.3	97.7	95.0	96.7
PST-K13-143	99.0	98.0	93.3	96.7	97.0	97.0	95.3	94.3	92.0
EVEREST	99.0	98.7	94.7	97.0	98.7	96.7	90.7	82.0	83.0
BAR PP 110358	99.0	99.0	98.0	98.3	98.7	98.3	95.3	96.3	98.0
BLUE NOTE	99.0	98.7	94.3	97.3	98.3	96.0	91.7	86.3	87.0
PST-K15-169	99.0	99.0	95.3	97.3	97.3	97.0	94.7	92.7	91.7
BARRARI	99.0	99.0	97.7	98.3	98.0	97.7	98.3	96.7	97.3
PST-K13-141	99.0	99.0	81.0	94.3	97.7	90.7	83.0	83.0	84.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	98.0	91.0	88.3	93.7	92.7	83.3	76.7	74.3	75.3
BABE	99.0	99.0	95.0	96.3	97.3	95.0	98.0	93.0	94.3
DAUNTLESS	99.0	98.0	85.0	92.7	94.7	84.7	80.7	75.0	78.3
PST-K13-137	98.7	98.0	94.0	96.3	97.3	93.7	91.7	81.3	81.7
LSD VALUE	0.2	5.1	20.1	5.5	1.9	7.1	14.6	20.0	25.4
C.V. (%)	0.1	2.4	8.0	2.4	1.2	4.2	7.9	10.5	11.8

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 17.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD COLOR RATINGS				DROUGHT PERIOD DENSITY				DROUGHT PERIOD UNIFORMITY RATINGS			
	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13
NAI-13-14	7.0	8.0	6.7	8.0	6.0	6.3	3.7	6.0	7.3	7.7	5.7	7.3
BLUE DEVIL	6.0	7.3	6.7	8.0	5.7	6.0	3.0	4.0	7.3	7.3	6.3	7.3
PST-K11-118	5.7	7.7	6.7	7.3	5.0	6.7	3.0	3.7	7.3	7.7	6.7	6.3
MIDNIGHT	6.7	8.0	6.7	7.3	5.3	6.7	3.3	4.3	6.7	7.0	6.3	7.0
NAI-13-132	6.0	7.3	7.0	7.7	5.7	6.3	3.7	4.0	7.3	7.3	6.7	6.3
PST-K13-143	6.0	7.3	6.0	7.7	5.3	7.0	2.7	3.3	6.3	6.7	6.0	6.3
EVEREST	6.3	7.0	6.7	7.7	6.0	6.3	3.0	4.7	7.0	6.3	6.0	6.3
BAR PP 110358	6.0	7.3	6.0	7.0	5.0	6.7	2.3	3.0	6.3	7.3	5.7	5.7
BLUE NOTE	6.0	7.0	5.7	7.0	6.0	6.3	2.7	3.0	7.3	5.7	5.7	5.7
PST-K15-169	7.0	8.0	6.3	7.7	5.0	6.3	3.0	3.3	6.3	5.7	6.0	6.0
BARRARI	5.0	6.3	5.3	7.0	5.0	5.0	2.0	2.7	7.0	5.7	6.3	6.3
PST-K13-141	6.0	7.7	5.0	6.7	5.7	7.0	2.3	2.3	7.0	6.7	5.3	5.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.3	8.3	7.0	7.0	6.0	6.7	3.7	3.3	6.7	7.3	6.0	6.0
BABE	5.0	6.0	5.3	7.0	5.3	5.7	2.7	2.7	6.3	7.3	4.3	5.7
DAUNTLESS	5.3	6.3	5.3	6.0	5.7	6.0	2.7	2.7	6.7	6.7	5.0	6.7
PST-K13-137	5.7	7.7	6.7	7.7	6.0	7.7	3.0	5.0	7.0	7.0	6.0	7.0
LSD VALUE	1.2	1.3	1.0	1.1	0.7	3.6	1.3	1.6	2.1	2.0	2.0	2.0
C.V. (%)	10.9	9.3	9.0	7.6	7.0	18.3	20.4	24.2	10.6	12.9	14.3	12.8

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 17.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27								
	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	AUG 2
NAI-13-14	7.3	9.0	7.7	7.0	8.0	8.3	9.0	8.0	8.0
BLUE DEVIL	7.7	8.3	7.0	7.3	7.3	8.0	8.3	8.0	8.0
PST-K11-118	7.7	8.3	7.3	7.0	8.0	7.3	8.3	7.7	7.3
MIDNIGHT	8.0	8.3	7.3	7.3	8.0	7.7	8.3	8.0	8.0
NAI-13-132	7.3	7.7	7.0	6.0	7.3	6.7	8.0	7.7	7.7
PST-K13-143	8.0	7.7	7.0	6.3	7.0	7.3	8.3	8.0	7.7
EVEREST	7.3	8.7	6.3	5.7	6.0	6.7	8.0	8.0	8.0
BAR PP 110358	7.3	7.0	6.7	6.3	7.7	7.0	7.7	7.0	7.0
BLUE NOTE	7.7	7.7	7.0	6.7	8.0	6.7	7.3	7.7	7.0
PST-K15-169	7.7	7.3	7.0	5.7	7.3	7.0	8.7	7.7	7.3
BARRARI	7.0	6.3	6.3	5.7	7.3	6.7	7.3	7.0	7.0
PST-K13-141	7.0	7.0	6.7	6.7	8.0	7.0	8.0	7.0	7.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	9.0	8.7	7.7	6.0	6.0	6.7	8.0	9.0	8.3
BABE	7.3	7.3	6.3	6.0	7.0	6.7	6.7	7.0	7.0
DAUNTLESS	7.3	6.7	7.0	6.0	6.7	6.7	6.7	6.3	7.0
PST-K13-137	6.0	7.3	4.7	4.7	5.0	5.3	7.7	8.0	8.0
LSD VALUE	1.7	1.2	1.7	1.1	1.4	2.4	1.4	0.6	0.6
C.V. (%)	10.3	8.7	12.1	10.1	11.0	14.0	8.9	4.6	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 17.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/								MEAN
	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27	
NAI-13-14	8.0	6.3	8.0	8.0	7.7	7.7	8.0	7.7	7.8
BLUE DEVIL	8.0	6.0	8.0	8.0	7.7	7.3	7.3	7.3	7.6
PST-K11-118	7.3	6.7	7.7	8.0	7.7	7.3	8.7	7.3	7.6
MIDNIGHT	7.7	5.7	8.3	8.0	7.3	6.3	6.7	6.7	7.5
NAI-13-132	7.3	6.3	8.0	8.0	7.0	7.0	8.3	6.7	7.3
PST-K13-143	7.0	6.3	7.7	7.3	7.0	7.0	7.7	6.7	7.3
EVEREST	8.0	6.0	8.0	8.0	7.7	6.7	7.0	6.7	7.2
BAR PP 110358	7.0	6.7	7.3	7.3	6.7	6.7	8.0	6.7	7.1
BLUE NOTE	7.0	6.0	7.3	7.7	6.7	6.3	7.0	5.7	7.1
PST-K15-169	7.0	6.3	7.7	7.7	6.3	7.0	7.0	6.3	7.1
BARRARI	7.0	5.7	7.3	7.3	7.0	7.3	8.0	6.7	6.9
PST-K13-141	7.3	5.7	6.3	7.3	5.7	5.7	7.7	6.0	6.9
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	5.0	7.3	6.0	5.0	4.7	5.7	5.3	6.9
BABE	7.0	6.0	6.3	7.0	6.3	6.7	7.7	6.7	6.8
DAUNTLESS	7.3	5.7	6.0	7.3	6.0	5.3	6.3	6.3	6.5
PST-K13-137	8.0	5.3	8.3	7.7	6.3	5.7	6.7	5.7	6.4
LSD VALUE	1.7	2.0	1.2	0.8	1.4	3.2	2.3	1.9	0.6
C.V. (%)	8.8	12.5	9.0	6.2	11.0	19.0	13.9	12.7	4.7

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 18.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
 WITH 40% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
 2017 DATA

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

NAME	GENETIC COLOR	PRE-DROUGHT PERIOD		DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/							
		% COVER MAY 31	QUALITY MAY 31	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26
RS4	6.0	94.7	8.3	94.0	87.0	79.3	75.3	80.7	63.7	71.7	96.0
THUNDERSTRUCK	7.3	94.7	8.0	93.7	90.3	86.3	82.0	86.3	74.3	81.0	96.0
SUPERSONIC	6.3	90.7	6.7	85.3	81.3	77.3	72.0	75.7	61.7	83.3	96.7
DLFPS 321/3679	6.7	92.3	7.3	90.7	83.7	72.3	59.7	61.7	46.0	60.7	92.3
GO-AOMK	8.0	93.7	7.0	94.7	90.7	84.3	78.0	81.3	65.7	69.3	93.3
MRSL TF15	6.7	92.3	8.7	90.3	81.0	71.0	60.3	76.7	57.7	70.0	96.3
TITANIUM 2LS	6.3	92.0	7.7	88.0	78.0	74.3	66.7	77.0	61.0	70.7	97.0
PST-R511	6.7	93.3	7.0	92.7	88.7	84.3	79.3	81.0	79.7	77.3	95.0
NONET	7.0	94.7	7.7	91.3	85.3	79.0	68.7	80.3	62.7	74.0	93.7
LTP-SYN-A3	6.3	91.3	7.3	88.0	73.7	64.3	49.7	56.0	36.0	51.3	94.7
STETSON II	7.7	92.7	8.0	85.7	73.7	68.0	55.0	61.7	34.0	46.3	92.7
DLFPS 321/3678	7.7	93.0	7.0	86.7	85.7	78.3	70.0	70.0	54.0	55.0	90.3
BAR FA 121095	7.7	92.3	8.3	84.3	74.0	63.3	53.3	55.7	24.7	37.7	91.7
BARROBUSTO	6.3	88.0	7.3	78.7	69.3	65.7	53.0	57.0	40.7	52.0	82.7
KINGDOM	8.0	92.0	7.7	86.3	81.3	68.7	59.7	59.0	46.0	53.7	92.0
CATALYST	5.3	88.3	7.0	77.7	72.7	65.0	55.0	56.0	36.7	44.7	81.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.3	93.3	8.3	83.7	61.0	52.3	46.0	43.7	36.0	45.3	73.0
PST-5SDS	5.3	87.3	7.7	70.7	46.3	36.0	28.7	40.3	14.7	29.7	93.3
THOR	7.3	90.0	7.3	77.0	64.7	61.3	53.0	53.3	41.3	38.3	79.7
DLFPS 321/3677	6.7	88.0	6.0	71.0	69.7	65.3	57.3	62.0	40.3	41.0	79.3
LSD VALUE	2.4	14.6	3.2	44.1	57.6	60.0	69.8	71.7	89.2	84.2	39.5
C.V. (%)	15.3	4.9	14.7	16.1	25.1	29.1	37.8	36.1	60.6	48.7	14.2

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 18.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 2	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27
RS4	99.0	98.7	93.7	96.7	98.3	96.3	93.0	90.3	90.0
THUNDERSTRUCK	99.0	98.3	92.7	94.3	95.0	85.7	81.7	73.7	71.0
SUPERSONIC	99.0	98.7	97.0	96.3	97.7	91.7	79.7	75.7	75.0
DLFPS 321/3679	97.3	98.0	97.3	98.3	98.0	95.0	86.7	87.0	88.3
GO-AOMK	95.0	84.0	69.3	74.3	78.3	67.0	58.7	54.7	54.3
MRSL TF15	98.7	97.0	84.7	86.3	92.7	74.0	55.7	49.7	50.3
TITANIUM 2LS	99.0	97.3	80.0	79.3	88.3	68.7	56.0	53.3	51.3
PST-R511	98.3	97.0	89.7	91.0	94.3	66.3	45.0	36.0	36.0
NONET	98.3	90.3	77.7	79.3	86.3	50.0	37.3	35.0	36.0
LTP-SYN-A3	97.7	98.7	95.7	96.0	97.3	80.3	60.7	59.7	63.0
STETSON II	98.7	98.3	95.0	95.7	96.7	82.0	61.3	54.0	53.7
DLFPS 321/3678	98.0	98.7	93.3	96.0	96.0	87.7	76.7	76.0	73.3
BAR FA 121095	97.0	96.3	85.7	88.0	93.0	71.7	50.7	48.7	53.7
BARROBUSTO	91.0	87.3	72.0	79.7	91.3	66.7	60.7	58.7	65.0
KINGDOM	97.7	96.7	70.0	72.7	84.3	52.0	33.3	28.3	30.7
CATALYST	87.3	84.7	70.7	70.7	82.3	61.7	44.7	46.0	49.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	74.3	65.7	53.0	57.7	59.3	52.3	41.3	42.3	47.3
PST-5SDS	95.7	92.7	79.7	83.0	89.7	66.3	48.3	48.3	52.3
THOR	81.3	78.3	50.3	59.3	75.0	47.0	38.3	33.0	37.3
DLFPS 321/3677	86.7	88.3	61.0	67.0	74.7	48.7	24.7	25.7	32.0
LSD VALUE	29.8	33.6	52.2	51.8	40.3	58.6	62.8	58.1	52.8
C.V. (%)	11.5	14.0	25.9	23.5	17.3	32.6	45.7	46.2	41.2

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 18.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD COLOR RATINGS				DROUGHT PERIOD DENSITY				DROUGHT PERIOD UNIFORMITY RATINGS			
	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13
RS4	6.3	6.3	7.7	7.7	5.0	5.3	5.7	5.0	6.3	5.7	6.3	6.7
THUNDERSTRUCK	7.0	7.0	7.3	7.3	4.3	6.3	6.0	4.0	6.7	5.0	6.0	6.0
SUPERSONIC	6.3	6.0	8.0	7.0	5.0	6.3	5.7	4.0	6.7	4.0	6.0	6.7
DLFPS 321/3679	6.0	5.0	8.0	7.7	5.0	3.7	5.7	4.7	7.0	4.3	6.7	7.3
GO-AOMK	7.7	7.0	6.3	6.0	5.0	6.0	5.3	5.0	6.7	5.7	5.3	6.7
MRSLS TF15	6.0	6.0	7.0	5.7	5.0	4.3	6.0	3.0	6.0	4.7	5.7	5.7
TITANIUM 2LS	6.0	6.0	6.3	5.3	5.0	6.0	4.7	3.3	6.3	5.0	5.7	5.0
PST-R511	6.7	6.7	6.3	4.7	5.0	5.7	4.7	2.3	6.3	5.7	6.3	6.0
NONET	6.0	6.0	6.0	4.7	4.7	5.3	4.3	2.7	7.0	6.7	5.3	5.3
LTP-SYN-A3	5.3	4.7	7.0	5.7	4.3	3.3	4.0	3.3	6.7	5.0	5.7	6.3
STETSON II	6.0	4.7	7.7	6.0	4.7	3.7	5.7	2.7	6.7	4.0	6.3	5.3
DLFPS 321/3678	7.3	5.7	7.7	7.0	4.3	5.0	5.0	3.7	7.0	5.0	6.3	7.0
BAR FA 121095	5.3	4.3	7.3	5.3	5.3	4.0	5.0	2.3	6.7	4.3	6.0	5.7
BARROBUSTO	5.0	5.0	6.3	6.0	5.0	4.3	4.0	2.3	5.7	5.0	5.0	5.0
KINGDOM	7.0	5.3	6.0	4.7	4.7	4.7	4.3	2.3	7.0	5.0	5.0	5.7
CATALYST	5.3	4.7	6.0	5.0	4.7	4.0	4.0	2.7	5.7	5.0	5.0	5.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	5.3	5.0	5.3	5.0	5.0	5.7	4.7	3.3	5.0	5.3	6.0	5.0
PST-5SDS	3.3	3.7	5.7	5.0	4.3	4.0	3.3	2.3	5.0	4.7	5.7	5.3
THOR	5.7	5.0	5.0	4.7	4.0	4.3	3.7	2.7	6.3	5.0	4.3	4.7
DLFPS 321/3677	6.3	5.3	5.3	3.7	4.3	5.7	3.7	2.0	5.7	4.7	4.7	5.0
LSD VALUE	5.0	4.7	4.0	3.9	1.8	3.2	3.5	2.5	2.9	4.0	3.7	3.2
C.V. (%)	27.7	28.7	22.2	27.8	13.0	27.2	27.3	36.2	16.3	24.7	20.9	20.6

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 18.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/								
	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	AUG 2
RS4	7.7	6.7	7.0	5.7	5.3	4.3	4.7	6.0	6.7
THUNDERSTRUCK	7.7	6.3	6.7	5.7	5.7	5.0	5.0	6.3	6.7
SUPERSONIC	7.0	6.0	6.0	5.3	4.7	3.7	4.3	5.7	6.0
DLFPS 321/3679	6.7	6.3	5.7	4.0	4.3	3.3	4.0	4.7	6.3
GO-AOMK	7.7	6.7	6.3	5.7	5.3	4.3	4.3	5.7	6.7
MRSL TF15	6.7	5.7	5.3	5.0	5.0	4.3	4.7	5.3	6.3
TITANIUM 2LS	7.0	5.3	6.0	5.0	5.0	4.7	4.3	5.3	7.0
PST-R511	6.7	5.7	6.0	5.0	5.3	4.3	4.3	5.3	6.0
NONET	6.3	6.3	6.7	4.7	5.0	4.7	4.3	5.0	6.3
LTP-SYN-A3	6.7	5.7	5.3	4.3	4.0	3.0	3.7	5.3	6.3
STETSON II	6.0	5.7	5.0	4.7	4.3	3.0	4.0	5.0	6.0
DLFPS 321/3678	6.7	6.0	6.3	4.3	4.3	2.7	3.3	4.7	5.3
BAR FA 121095	5.0	5.3	5.0	3.7	4.3	2.3	4.0	4.7	5.3
BARROBUSTO	5.7	5.7	5.7	4.3	4.0	3.3	3.0	4.3	5.3
KINGDOM	6.0	5.7	5.0	4.7	4.0	3.3	3.7	5.0	5.7
CATALYST	6.0	5.3	5.3	4.0	4.0	2.7	3.3	4.7	4.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.3	5.3	4.3	3.7	3.3	3.3	4.3	4.7	5.0
PST-5SDS	4.3	5.0	3.3	4.0	3.7	2.0	3.0	4.0	5.0
THOR	5.7	5.3	5.3	4.0	4.0	2.7	3.7	4.3	4.3
DLFPS 321/3677	6.0	5.7	5.7	4.3	4.0	2.3	2.3	4.0	5.0
LSD VALUE	2.8	2.6	4.5	4.1	2.7	5.4	5.4	4.0	4.5
C.V. (%)	18.4	14.7	26.8	27.4	22.5	49.0	39.0	24.7	25.2

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 18.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 40% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27	MEAN
RS4	7.3	5.7	7.0	6.7	5.7	5.3	6.7	5.3	6.2
THUNDERSTRUCK	6.3	5.3	5.7	5.7	4.7	4.3	6.3	5.0	5.9
SUPERSONIC	7.0	6.0	6.3	5.0	5.3	4.7	5.7	5.0	5.6
DLFPS 321/3679	6.7	5.7	6.0	6.3	5.7	5.3	6.0	5.0	5.5
GO-AOMK	6.7	5.0	5.3	6.3	4.3	3.3	4.7	4.0	5.5
MRS� TF15	6.3	5.0	5.7	6.0	5.0	3.3	5.0	4.0	5.4
TITANIUM 2LS	7.0	5.0	6.0	5.3	4.3	3.3	4.7	4.0	5.4
PST-R511	6.7	4.7	5.3	7.0	4.7	3.7	4.7	3.3	5.3
NONET	5.7	4.3	5.3	6.3	4.3	2.3	4.3	3.3	5.2
LTP-SYN-A3	6.7	5.3	5.3	4.3	4.7	3.7	5.0	4.7	5.1
STETSON II	6.3	5.0	5.7	5.7	4.7	4.0	5.3	4.3	5.1
DLFPS 321/3678	5.7	4.7	5.3	5.7	4.3	3.3	6.0	4.7	5.0
BAR FA 121095	6.0	5.0	5.0	5.0	4.3	3.3	4.7	4.0	4.7
BARROBUSTO	4.3	3.7	4.3	5.0	4.0	2.7	4.7	4.0	4.5
KINGDOM	5.7	4.3	4.0	4.7	3.3	1.7	4.0	2.7	4.5
CATALYST	5.7	4.3	5.0	4.3	4.0	3.0	3.7	3.0	4.4
SR 4650 (P.RYEGRASS STANDARD ENTRY)	4.3	4.0	4.0	6.0	2.7	2.7	3.7	2.7	4.4
PST-5SDS	5.0	4.7	4.7	6.0	4.0	3.3	4.3	3.7	4.3
THOR	4.7	3.7	4.3	5.0	3.0	3.0	3.3	3.0	4.3
DLFPS 321/3677	5.7	3.7	3.7	4.7	3.3	1.7	3.0	2.3	4.1
LSD VALUE	4.3	4.5	4.9	5.3	3.4	2.7	3.1	4.0	3.4
C.V. (%)	24.8	29.0	30.2	28.6	28.9	36.4	27.9	36.6	21.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 19.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
 WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
 2017 DATA

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

NAME	GENETIC COLOR	PRE-DROUGHT PERIOD		DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/							
		% COVER MAY 31	QUALITY MAY 31	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26
BARROBUSTO	5.3	92.7	8.0	90.3	87.3	80.7	70.3	85.5	77.5	89.0	98.0
DLFPS 321/3679	5.3	95.3	8.0	96.3	94.3	83.7	87.7	95.7	92.3	94.7	98.0
THOR	6.0	91.0	8.0	90.3	85.3	79.0	73.0	78.3	76.3	94.0	97.7
GO-AOMK	6.7	92.3	8.0	91.7	82.7	74.0	66.3	74.7	65.0	82.7	94.3
STETSON II	6.7	92.7	8.3	92.7	88.0	81.3	75.3	83.7	78.7	94.7	97.7
DLFPS 321/3677	6.3	93.7	8.0	92.7	90.0	84.0	77.7	90.0	89.3	94.3	98.3
MRSL TF15	5.7	88.0	8.3	89.0	79.0	68.3	56.0	68.0	71.3	90.0	97.3
PST-5SDS	5.7	95.0	8.0	93.0	84.0	76.0	65.0	78.7	67.7	86.0	98.3
DLFPS 321/3678	5.7	93.0	8.0	92.3	83.3	75.3	64.7	83.3	86.7	96.7	98.7
KINGDOM	6.3	92.7	8.0	90.3	84.3	76.7	68.7	77.7	68.3	80.7	93.7
NONET	4.7	92.0	8.0	93.0	80.0	71.3	63.3	87.3	91.0	98.0	98.0
TITANIUM 2LS	5.3	91.7	8.0	86.0	81.0	74.7	64.7	75.7	62.3	71.7	91.7
PST-R511	5.3	90.0	8.3	81.3	79.3	67.7	48.7	69.7	67.0	81.7	98.0
SUPERSONIC	6.0	90.7	7.7	89.7	81.0	67.3	55.7	72.7	57.7	78.3	97.0
THUNDERSTRUCK	5.7	89.7	8.0	89.7	82.0	69.7	60.3	76.0	63.0	81.3	97.7
BAR FA 121095	5.7	92.7	8.0	91.7	78.0	69.3	63.3	75.3	58.7	71.0	96.0
RS4	6.3	88.3	8.0	82.7	74.7	63.0	52.7	68.3	51.0	61.7	90.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.0	96.3	9.0	91.7	82.7	69.7	59.3	76.3	72.0	92.7	98.0
LTP-SYN-A3	5.7	91.0	8.0	79.7	75.7	61.7	55.7	78.7	65.0	73.3	78.3
CATALYST	5.0	89.3	6.7	73.0	56.7	51.3	44.3	69.3	47.3	69.0	76.0
LSD VALUE	1.7	7.7	0.4	18.7	22.2	30.0	46.3	48.3	56.2	53.2	34.5
C.V. (%)	12.4	3.4	3.3	8.7	11.9	16.3	26.0	18.6	28.6	21.4	11.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 19.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 2	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27
BARROBUSTO	99.0	99.0	99.0	97.5	98.5	96.0	93.0	90.0	90.0
DLFPS 321/3679	99.0	99.0	98.7	99.0	98.7	98.0	97.0	94.3	95.3
THOR	99.0	98.7	97.3	98.0	98.7	95.0	92.0	87.3	86.3
GO-AOMK	97.7	96.3	95.3	97.0	97.3	94.3	90.3	87.0	85.7
STETSON II	99.0	98.7	97.3	97.3	97.3	93.0	85.0	81.0	77.7
DLFPS 321/3677	99.0	98.3	88.3	95.7	97.3	89.3	79.0	77.0	84.3
MRSL TF15	98.7	98.3	98.0	96.7	98.0	94.7	87.0	81.7	82.0
PST-5SDS	99.0	98.7	96.3	96.3	98.0	89.7	79.3	76.0	76.0
DLFPS 321/3678	98.7	95.0	82.3	85.3	90.7	79.0	71.3	70.0	72.0
KINGDOM	94.3	92.3	90.0	90.3	94.7	85.7	80.7	75.0	77.3
NONET	99.0	97.7	93.0	96.0	96.0	89.0	81.3	73.3	77.3
TITANIUM 2LS	96.3	91.7	89.3	92.7	98.0	87.0	81.0	80.3	85.0
PST-R511	99.0	98.0	96.7	97.7	98.3	90.3	87.7	81.3	83.7
SUPERSONIC	98.7	93.3	90.0	94.0	96.3	85.3	75.3	74.0	78.7
THUNDERSTRUCK	98.7	95.7	93.0	97.0	97.0	91.3	85.3	80.0	81.0
BAR FA 121095	95.3	90.0	88.0	84.7	96.3	85.3	75.7	68.0	72.7
RS4	87.3	84.7	86.3	93.7	95.0	88.7	85.7	79.3	80.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	98.0	95.3	65.7	88.7	84.7	46.0	35.0	32.0	37.7
LTP-SYN-A3	80.3	81.7	84.7	84.7	89.0	89.3	87.0	86.7	86.7
CATALYST	80.7	78.0	76.7	75.3	84.3	77.0	65.3	59.3	56.7
LSD VALUE	31.7	33.1	18.7	23.5	15.2	26.3	45.0	47.1	54.0
C.V. (%)	10.8	11.4	10.2	9.7	6.4	14.5	22.5	24.2	24.8

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 19.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD COLOR RATINGS				DROUGHT PERIOD DENSITY				DROUGHT PERIOD UNIFORMITY RATINGS			
	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13
BARROBUSTO	6.0	6.5	7.5	7.5	4.5	4.5	3.0	3.5	6.5	6.0	5.0	6.0
DLFPS 321/3679	6.3	7.3	7.7	8.7	4.3	5.0	3.0	4.3	6.3	7.0	6.0	7.0
THOR	6.3	7.0	8.0	8.3	4.3	6.0	3.7	4.3	6.0	5.3	6.3	7.0
GO-AOMK	6.7	6.3	7.7	8.3	5.3	6.0	3.7	4.0	5.7	5.3	5.3	6.3
STETSON II	6.3	7.3	7.3	7.0	5.0	5.3	3.3	4.0	6.7	5.0	5.7	6.7
DLFPS 321/3677	6.3	7.7	6.7	7.3	5.0	7.0	3.0	4.3	6.3	6.3	5.3	5.7
MRSLS TF15	5.7	6.7	7.7	7.7	5.0	6.0	3.7	4.7	7.0	5.7	5.3	6.0
PST-5SDS	6.0	6.0	6.7	6.7	4.3	5.7	2.7	3.0	6.3	5.3	5.3	5.0
DLFPS 321/3678	6.0	7.0	6.3	6.7	5.3	6.0	3.3	3.0	6.3	6.3	5.3	6.0
KINGDOM	6.3	6.3	6.7	7.7	4.7	6.0	3.0	4.0	6.3	4.7	5.3	5.3
NONET	5.3	7.3	6.3	6.7	5.0	6.0	3.0	3.3	6.3	5.7	5.0	5.0
TITANIUM 2LS	5.3	6.0	7.0	7.3	5.0	4.7	3.0	4.7	6.0	6.3	6.0	6.3
PST-R511	5.7	6.3	6.7	7.0	5.0	6.0	2.7	3.7	6.0	4.0	5.3	6.0
SUPERSONIC	5.7	6.0	6.3	6.7	4.7	5.0	3.3	3.7	7.0	5.7	5.7	6.3
THUNDERSTRUCK	6.3	6.3	6.7	7.3	4.3	5.7	3.3	4.3	7.0	5.3	5.7	6.0
BAR FA 121095	5.3	6.0	6.7	7.0	4.7	5.3	3.0	3.0	5.7	5.0	4.3	5.3
RS4	5.7	5.3	7.0	7.3	5.0	4.3	3.3	4.3	6.7	5.0	4.7	6.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.0	7.0	5.3	4.7	6.7	6.3	2.7	2.3	7.0	6.3	5.7	6.3
LTP-SYN-A3	5.0	6.3	6.3	7.3	4.7	4.7	3.0	3.3	5.7	4.7	4.3	5.7
CATALYST	4.0	5.7	5.7	6.0	4.0	4.7	2.7	2.3	4.7	4.3	4.0	4.3
LSD VALUE	1.6	2.7	1.2	2.8	0.9	3.7	1.7	3.4	2.5	2.7	2.3	2.3
C.V. (%)	12.9	15.0	9.5	16.5	10.3	22.0	18.2	31.9	14.4	19.7	16.9	16.0

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 19.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	AUG 2
BARROBUSTO	8.0	7.5	7.5	5.5	6.5	4.5	6.0	6.5	8.0
DLFPS 321/3679	7.7	6.7	6.3	5.0	5.7	5.7	6.7	6.7	7.3
THOR	8.3	7.0	6.0	5.3	5.3	5.0	6.7	7.0	7.0
GO-AOMK	8.0	7.0	6.3	4.7	6.0	4.7	6.3	6.0	7.0
STETSON II	8.0	7.0	6.7	4.7	6.0	4.7	6.3	6.7	7.0
DLFPS 321/3677	8.0	6.7	6.3	4.7	6.0	5.3	6.3	6.3	7.3
MRSL TF15	8.7	6.3	5.7	4.0	4.7	4.7	6.0	6.7	7.0
PST-5SDS	8.0	6.3	6.0	5.0	5.7	4.7	5.7	6.7	6.3
DLFPS 321/3678	7.3	6.3	6.7	4.0	5.3	5.7	6.7	7.0	6.7
KINGDOM	7.3	7.0	6.3	5.0	4.7	4.7	5.7	6.0	6.3
NONET	7.3	6.7	5.7	4.7	5.3	5.3	7.3	6.7	7.0
TITANIUM 2LS	7.3	7.0	7.0	4.3	5.7	4.0	5.0	6.0	6.3
PST-R511	6.7	6.3	5.7	3.7	5.0	4.0	5.0	6.3	6.3
SUPERSONIC	7.0	6.7	6.3	4.3	4.7	3.7	5.0	6.3	6.7
THUNDERSTRUCK	8.0	6.7	5.3	4.0	5.0	4.0	4.7	6.0	7.0
BAR FA 121095	7.3	6.3	5.7	5.0	5.3	3.0	5.0	5.0	6.0
RS4	7.3	6.3	5.3	4.3	4.7	3.3	3.7	6.0	6.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	8.3	7.3	5.0	4.3	4.0	4.7	6.7	8.3	8.3
LTP-SYN-A3	6.3	5.7	5.7	4.3	4.3	4.0	5.0	5.7	6.0
CATALYST	6.0	5.0	5.0	3.7	4.0	3.0	4.7	5.3	5.7
LSD VALUE	3.0	2.3	2.8	3.4	3.7	2.7	2.7	1.7	2.6
C.V. (%)	14.1	12.6	16.2	22.1	22.8	25.1	20.6	12.7	14.0

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

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

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.



TABLE 19.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 60% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27	MEAN
BARROBUSTO	7.5	6.5	8.0	8.0	6.5	6.5	7.0	7.0	7.3
DLFPS 321/3679	7.7	6.3	7.3	7.7	6.0	6.3	7.3	7.0	6.7
THOR	7.7	7.0	8.0	7.7	6.0	6.0	7.0	6.3	6.7
GO-AOMK	7.3	6.3	7.3	7.3	6.3	5.7	7.3	6.7	6.6
STETSON II	7.7	6.3	7.0	7.7	6.0	5.3	6.3	5.3	6.5
DLFPS 321/3677	7.7	6.0	7.0	7.0	5.0	5.3	6.3	6.0	6.4
MRSL TF15	7.3	6.0	7.7	7.7	6.0	5.3	6.0	5.7	6.3
PST-5SDS	7.3	6.0	7.0	7.7	5.3	5.0	6.7	6.0	6.3
DLFPS 321/3678	7.3	5.7	6.7	6.7	5.3	4.3	6.3	5.0	6.2
KINGDOM	7.3	5.7	6.7	6.3	5.3	5.0	6.7	5.3	6.1
NONET	7.0	5.7	6.3	6.7	5.0	4.7	5.7	5.7	6.1
TITANIUM 2LS	6.7	5.7	6.7	6.3	5.0	5.3	6.3	6.3	6.1
PST-R511	6.7	5.7	7.3	7.3	5.3	5.7	6.7	6.0	6.0
SUPERSONIC	6.3	5.7	7.0	6.3	5.3	5.0	5.7	5.7	5.9
THUNDERSTRUCK	7.0	5.7	7.0	6.7	5.3	5.0	6.3	5.3	5.9
BAR FA 121095	6.3	5.3	5.7	5.3	5.0	4.7	5.7	5.3	5.6
RS4	6.7	4.7	6.7	6.7	4.7	4.3	6.0	5.3	5.6
SR 4650 (P.RYEGRASS STANDARD ENTRY)	8.0	4.0	4.0	6.3	2.7	2.3	3.7	3.3	5.6
LTP-SYN-A3	6.0	5.0	6.0	6.3	5.3	4.7	6.0	5.0	5.5
CATALYST	6.3	4.0	5.7	5.0	4.3	4.0	5.3	4.7	4.9
LSD VALUE	2.2	2.6	2.6	2.1	1.7	2.6	2.7	3.3	2.0
C.V. (%)	11.9	18.4	16.6	13.7	16.0	22.1	17.6	21.5	12.9

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 20.

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
 IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
 WITH 80% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
 2017 DATA

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

NAME	PRE-DROUGHT PERIOD			DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/							
	GENETIC COLOR	% COVER MAY 31	QUALITY MAY 31	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26
DLFPS 321/3679	5.7	95.3	8.0	97.0	96.0	92.7	96.0	98.3	97.7	98.7	98.0
KINGDOM	7.0	96.0	8.0	96.7	96.3	94.0	95.0	97.7	96.7	98.0	97.7
THUNDERSTRUCK	6.3	95.7	7.7	96.0	94.7	89.7	94.0	97.7	96.0	98.3	97.7
THOR	6.3	95.7	7.3	94.7	94.3	92.3	94.3	98.0	96.7	98.3	97.7
TITANIUM 2LS	5.3	95.0	8.0	96.0	96.0	93.7	95.7	98.0	96.7	99.0	98.0
LTP-SYN-A3	5.3	94.0	7.7	95.3	96.3	94.0	97.0	98.7	97.3	99.0	97.7
MRSL TF15	4.7	90.3	7.0	93.7	91.0	88.3	89.3	96.0	95.7	98.3	97.7
CATALYST	5.0	95.3	7.7	97.3	97.3	94.7	97.7	99.0	97.7	98.7	97.3
DLFPS 321/3677	5.0	94.3	7.3	96.7	96.3	92.3	96.0	98.7	97.3	98.3	98.7
SUPERSONIC	5.0	94.3	7.7	97.3	96.3	93.3	96.0	98.7	97.3	98.7	98.3
DLFPS 321/3678	5.0	93.0	8.0	97.0	95.3	92.3	92.3	95.3	95.0	97.7	98.0
RS4	5.3	92.0	7.0	93.7	95.0	93.0	96.0	98.0	96.7	98.7	98.0
STETSON II	5.7	92.7	7.7	94.7	93.7	92.0	92.0	96.7	96.7	98.3	97.7
BAR FA 121095	6.0	97.0	7.3	98.0	96.3	94.0	95.3	97.7	96.0	98.3	98.0
NONET	5.7	92.3	7.7	95.3	93.3	91.3	93.0	97.7	94.7	98.0	97.7
PST-5SDS	5.7	95.0	8.0	96.0	96.0	92.3	93.3	96.3	92.7	98.7	97.7
PST-R511	6.0	91.7	7.3	95.3	94.3	92.0	89.7	93.7	90.3	97.3	97.7
BARROBUSTO	5.0	93.0	6.7	96.0	94.3	92.0	94.0	96.0	94.7	93.0	98.0
SR 4650 (P.RYEGRASS STANDARD ENTRY)	6.3	96.0	9.0	96.3	94.0	91.7	87.7	91.0	87.7	93.0	95.0
GO-AOMK	5.0	86.3	6.3	93.0	88.3	85.0	85.7	91.0	84.3	84.3	96.3
LSD VALUE	2.3	10.4	1.8	4.7	8.8	10.7	10.3	5.1	9.5	7.1	1.3
C.V. (%)	15.9	4.1	10.0	2.0	3.4	4.0	4.6	2.7	4.6	3.8	0.7

- 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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 20.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETO REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD PERCENT GREEN COVER JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 2	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27
DLFPS 321/3679	99	98.7	95.3	97.3	98.0	97.0	94.3	91.7	92.7
KINGDOM	99	98.3	96.3	97.3	97.7	96.7	94.7	92.7	93.3
THUNDERSTRUCK	99	98.7	96.0	97.7	98.0	96.7	94.3	93.0	93.7
THOR	99	98.7	97.3	98.0	98.3	95.7	91.3	88.3	89.3
TITANIUM 2LS	99	99.0	98.3	99.0	97.7	99.0	98.3	96.7	98.0
LTP-SYN-A3	99	99.0	96.3	97.7	98.0	97.7	95.3	93.0	94.7
MRSL TF15	99	98.7	98.0	98.3	97.7	97.3	97.0	93.7	95.7
CATALYST	99	99.0	98.0	98.7	95.3	96.3	95.0	93.3	92.7
DLFPS 321/3677	99	99.0	98.0	98.7	98.7	98.3	97.7	96.0	97.7
SUPERSONIC	99	98.7	97.3	96.7	97.7	96.3	93.3	91.3	92.7
DLFPS 321/3678	99	99.0	96.7	97.7	97.7	97.7	94.3	93.3	94.7
RS4	99	99.0	94.7	97.3	98.7	97.3	93.7	93.3	95.7
STETSON II	99	98.3	96.7	97.0	98.0	95.3	92.7	91.3	92.7
BAR FA 121095	99	98.7	97.7	98.3	98.0	98.0	97.0	95.7	97.0
NONET	99	98.0	95.7	96.7	97.3	95.7	94.0	90.3	88.0
PST-5SDS	99	98.3	94.3	96.7	97.0	96.0	91.3	91.3	89.7
PST-R511	99	98.3	87.0	94.0	97.7	94.0	90.3	88.7	90.7
BARROBUSTO	99	98.7	98.3	96.7	98.3	97.3	96.3	94.7	95.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	98	91.0	88.3	93.7	92.7	83.3	76.7	74.3	75.3
GO-AOMK	99	96.7	91.7	97.0	96.7	93.3	89.3	88.3	90.0
LSD VALUE	0	4.6	6.3	4.0	2.4	4.3	10.8	16.3	16.4
C.V. (%)	0	2.2	3.4	1.8	1.4	2.7	5.7	7.2	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.
- 3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 20.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

NAME	DROUGHT PERIOD COLOR RATINGS				DROUGHT PERIOD DENSITY				DROUGHT PERIOD UNIFORMITY RATINGS			
	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13	JUNE 15	JULY 12	AUG 17	SEPT 13
DLFPS 321/3679	7.0	8.3	6.7	8.3	4.7	6.3	3.0	3.3	6.3	7.0	6.0	5.7
KINGDOM	7.3	8.7	7.0	8.3	4.3	6.0	3.7	5.0	6.7	7.3	5.7	6.3
THUNDERSTRUCK	6.7	7.7	6.7	8.0	4.7	6.0	3.7	4.3	6.3	6.3	6.0	6.3
THOR	6.7	8.3	7.0	8.0	5.0	6.3	3.7	4.0	6.3	6.0	6.0	6.0
TITANIUM 2LS	6.7	7.7	7.0	8.3	4.3	5.7	3.0	4.3	6.7	7.0	6.0	6.7
LTP-SYN-A3	6.7	8.0	6.7	8.0	4.3	5.3	3.0	3.7	6.3	6.3	6.0	6.7
MRSL TF15	6.3	8.0	7.3	8.0	5.0	5.0	3.7	4.3	6.7	6.7	5.3	6.3
CATALYST	6.3	8.0	7.0	7.3	4.3	6.0	3.0	3.7	6.3	7.3	6.7	6.7
DLFPS 321/3677	6.7	8.0	7.0	8.0	4.7	5.7	3.0	3.7	6.3	6.3	6.0	6.7
SUPERSONIC	6.7	8.3	6.7	7.7	4.3	5.7	3.7	3.7	6.7	7.3	5.7	6.7
DLFPS 321/3678	6.3	7.7	6.7	8.0	4.7	5.7	3.3	3.7	6.3	6.3	6.0	7.3
RS4	6.7	8.3	6.7	8.0	4.7	6.0	3.3	3.7	7.0	7.0	5.3	6.0
STETSON II	6.3	8.0	7.0	8.0	4.0	5.0	3.0	3.3	6.3	7.0	5.7	6.0
BAR FA 121095	6.0	7.3	7.0	8.0	5.0	6.0	3.3	3.7	6.0	5.7	5.0	6.7
NONET	6.7	7.7	6.7	7.7	4.3	6.0	3.3	3.3	6.7	6.3	5.7	7.0
PST-5SDS	6.3	7.3	6.3	7.0	4.3	6.0	3.0	3.0	6.0	6.3	6.0	5.7
PST-R511	6.3	7.3	6.0	7.3	5.0	5.7	2.3	3.3	6.7	6.3	5.3	7.0
BARROBUSTO	6.0	7.7	7.0	8.0	4.3	5.0	3.3	3.7	7.3	6.0	5.7	6.7
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.3	8.3	7.0	7.0	6.0	6.7	3.7	3.3	6.7	7.3	6.0	6.0
GO-AOMK	6.3	7.3	7.0	8.0	5.0	6.3	3.3	4.0	6.3	5.3	5.3	5.7
LSD VALUE	1.3	1.2	1.3	1.1	0.8	2.6	1.6	1.9	2.5	2.5	1.7	1.6
C.V. (%)	8.0	6.7	6.9	6.4	9.5	14.5	17.5	19.2	11.1	13.9	10.6	10.1

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

TABLE 20.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	JUNE 7	JUNE 15	JUNE 21	JUNE 28	JULY 5	JULY 12	JULY 19	JULY 26	AUG 2
DLFPS 321/3679	8.0	8.0	7.7	7.3	7.7	8.3	8.7	8.0	8.0
KINGDOM	8.0	7.7	6.7	7.0	8.0	8.0	8.3	8.0	8.0
THUNDERSTRUCK	8.3	8.0	7.7	7.3	8.0	8.7	8.7	8.0	8.0
THOR	8.0	8.0	7.3	7.3	8.0	7.7	8.7	8.0	8.0
TITANIUM 2LS	8.0	8.0	7.3	6.3	7.7	7.7	8.7	8.0	7.7
LTP-SYN-A3	8.0	8.0	7.0	7.3	8.0	7.3	8.0	8.0	7.7
MRSL TF15	8.0	7.7	6.3	6.0	8.0	8.0	8.3	8.0	8.0
CATALYST	8.0	7.7	7.3	7.7	8.0	7.7	8.3	7.3	7.0
DLFPS 321/3677	7.7	7.3	7.3	6.0	7.3	7.7	8.0	8.0	7.3
SUPERSONIC	8.0	7.7	7.0	7.3	7.3	7.7	8.3	8.0	7.0
DLFPS 321/3678	7.7	7.0	6.7	6.0	6.7	7.0	7.7	8.0	8.0
RS4	7.3	8.0	7.0	7.0	7.7	7.3	8.3	7.7	7.7
STETSON II	8.0	7.7	7.3	6.7	7.7	7.7	8.0	8.0	7.7
BAR FA 121095	7.3	7.3	6.7	5.7	7.0	6.7	7.7	7.3	7.0
NONET	8.0	8.0	7.3	6.7	7.3	6.3	7.7	7.7	7.3
PST-5SDS	8.0	7.7	8.0	6.7	7.3	7.3	8.3	7.0	7.0
PST-R511	7.7	7.3	6.7	6.7	7.3	6.7	7.3	8.0	7.7
BARROBUSTO	7.0	7.0	6.3	6.3	6.7	5.7	6.3	7.3	7.3
SR 4650 (P.RYEGRASS STANDARD ENTRY)	9.0	8.7	7.7	6.0	6.0	6.7	8.0	9.0	8.3
GO-AOMK	7.0	7.3	6.0	5.3	6.0	6.0	6.0	7.3	8.3
LSD VALUE	1.4	1.1	3.2	2.4	2.0	2.6	1.5	0.8	0.6
C.V. (%)	7.6	6.5	14.1	14.3	11.5	14.6	9.8	5.7	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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.

Taken from the 2016 Cool Season Water Use/ Drought Tolerance test - 2017 data report with permission from NTEP

TABLE 20.  
(CONT'D)

PERCENT GREEN COVER AND OTHER RATINGS OF TALL FESCUE CULTIVARS  
IN THE 2016 NATIONAL COOL-SEASON WATER USE/DROUGHT TOLERANCE TEST USING APPROACH 2  
WITH 80% OF ETo REPLACEMENT AT LAS CRUCES, NM 1/  
2017 DATA

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

DROUGHT PERIOD QUALITY RATINGS FROM JUNE 7 THROUGH SEPTEMBER 27 3/

NAME	AUG 9	AUG 17	AUG 23	AUG 30	SEPT 7	SEPT 13	SEPT 20	SEPT 27	MEAN
DLFPS 321/3679	8.0	6.3	8.0	8.0	7.3	6.7	8.0	8.0	7.8
KINGDOM	8.0	6.7	8.3	8.0	7.7	8.0	8.0	7.7	7.8
THUNDERSTRUCK	7.7	6.3	8.0	8.0	7.3	7.3	8.0	7.7	7.8
THOR	7.7	7.0	7.7	8.0	7.7	7.3	7.7	7.0	7.7
TITANIUM 2LS	7.3	6.7	8.0	8.0	7.7	7.7	8.0	8.0	7.7
LTP-SYN-A3	7.3	6.0	8.0	8.0	7.3	7.7	7.7	7.7	7.6
MRSL TF15	8.0	7.0	8.0	8.0	7.7	8.0	7.7	7.7	7.6
CATALYST	7.7	6.0	8.0	7.3	7.3	6.7	7.7	7.7	7.5
DLFPS 321/3677	7.7	6.7	8.0	8.0	7.3	7.7	8.3	7.7	7.5
SUPERSONIC	7.3	6.0	7.7	7.7	8.0	6.7	7.7	8.3	7.5
DLFPS 321/3678	7.7	6.3	8.3	8.0	7.7	8.0	7.7	7.7	7.4
RS4	7.3	5.7	7.7	8.0	7.3	7.3	7.7	8.0	7.4
STETSON II	8.0	5.7	7.7	7.3	7.3	7.0	7.3	7.3	7.4
BAR FA 121095	7.0	6.7	8.0	7.7	7.3	7.7	8.0	7.7	7.2
NONET	7.3	6.0	7.7	7.7	6.7	6.7	7.0	7.0	7.2
PST-5SDS	7.3	5.7	6.3	7.3	6.7	6.0	7.7	6.7	7.2
PST-R511	7.7	5.7	6.7	8.0	6.3	6.3	7.0	7.0	7.1
BARROBUSTO	7.0	6.3	7.7	7.7	6.7	7.7	7.7	7.7	6.9
SR 4650 (P.RYEGRASS STANDARD ENTRY)	7.0	5.0	7.3	6.0	5.0	4.7	5.7	5.3	6.9
GO-AOMK	7.0	5.7	7.7	8.0	7.3	7.0	7.0	7.0	6.8
LSD VALUE	2.4	1.8	1.4	0.7	1.4	1.5	1.6	1.4	0.8
C.V. (%)	9.5	12.0	7.9	5.5	10.1	11.6	9.5	9.7	5.1

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.

3/ COMPLETE DROUGHT/WATER USE TESTING PROTOCOL IS AVAILABLE FROM NTEP UPON REQUEST.