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, one member from the Sports Turf Managers Association of America (STMA), 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.

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Mr. Bo Lacy, Barenbrug USA.
Dr. Cole Thompson, USGA Green Section
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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 <u>http://www.ntep.org/reports/ratings.htm</u>.

2015 NATIONAL LOW INPUT COOL-SEASON TEST

LOCATIONS SUBMITTING DATA FOR 2020

State	Location	Code
Connecticut	Storrs	CT1
Connecticut	Storrs	CT2
Indiana	West Lafayette	IN1
Indiana	West Lafayette (Medium Input)	IN2
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Missouri	Columbia	MO2
North Carolina	Raleigh	NC1
Nebraska	Mead	NE1
Oregon	Corvallis	OR1
Pennsylvania	Kennett Square	PA2
Utah	Logan	UT1
Virginia	Blacksburg	VA1

2015 National Low Input Cool-Season Test Entries and Sponsors

Entry	No.	Name	Species/Composition	Sponsor
*1	Natura	ıl Knit® PRG Mi	x 50% Mensa perennial ryegrass 50% Savant perennial ryegrass	Ledeboer Seed LLC
*2	Bullse	eye	100% Bullseye tall fescue	Standard entry
*3	Bewit	ched	100% Bewitched Ky. Bluegrass	Standard entry
4	BGR-	TF3	100% BGR-TF3 tall fescue	Berger International LLC
5	MNH	D-15	100% MNHD-15 hard fescue	University of Minnesota
6	DLFP	S TF-A	33% Mustang 4 tall fescue	DLF/Pickseed/Seed Research of OR
			33% Grande 3 tall fescue	
			34% Fayette tall fescue	
7	DLFP	S ChCrM	24% Longfellow 3 chewings fescue	DLF/Pickseed/Seed Research of OR
			24% Windward chewings fescue	
			24% Chantilly strong creeping red fescue	
			25% Ruddy strong creeping red fescue	
0			3% Microclover TM	
8	DLFP	S ShHM	32% Quatro sheep fescue	DLF/Pickseed/Seed Research of OR
			32% Spartan II hard fescue	
			33% Eureka II hard fescue	
9		S TFAM	3% Microclover TM	DLF/Pickseed/Seed Research of OR
9	DLFF	STFAM	32% Mustang 4 tall fescue 32% Grande 3 tall fescue	DLF/Fickseed/Seed Research of OK
			33% Fayette tall fescue	
			3% Microclover TM	
*10	Vitali	ty Low	80% VNS hard fescue	Landmark Turf & Native Seed
10		•	20% VNS chewings fescue	
*11		ty Double	90% VNS tall fescue	Landmark Turf & Native Seed
		age Mixture	10% VNS Kentucky bluegrass	
*12	Chant	•	100% Chantilly strong creeping red	Standard entry
*13	Dutch	White Clover	100% Dutch White Clover	Standard entry
14	DLFP	S TFAStC	32% Mustang 4 tall fescue	DLF/Pickseed/Seed Research of OR
			32% Grande 3 tall fescue	
			33% Fayette tall fescue	
			3% strawberry clover	
15	DLFP	S ChCrSH	14% Longfellow 3 chewings fescue	DLF/Pickseed/Seed Research of OR
			14% Windward chewings fescue	
			14% Chantilly strong creeping red fescue	
			14% Ruddy strong creeping red fescue	
			14% Quatro sheep fescue	
			14% Eureka hard fescue	
*14	Car ant	un II	14% Spartan hard fescue	Standard antry
*16 *17	Sparta		100% Spartan II hard fescue	Standard entry
*17 *18	Quatro		100% Quatro sheep fescue	Standard entry
10	Ky-31		100% Ky-31 tall fescue w/endophyte	Standard entry

Entry No.	Name	Species/Composition	Sponsor
19	CRS Mix #1	55% Gladiator hard fescue 45% 4GUD hard fescue	Columbia River Seed
20	CRS Mix #2	67% Gladiator hard fescue 33% NAI13-14 Kentucky bluegrass	Columbia River Seed
21	CRS Mix #3	45% Gladiator hard fescue 45% Sword hard fescue 10% Dutch White Clover	Columbia River Seed
22	DTT Tall Fescue Mix	50% DTT20 tall fescue 50% DTT43 tall fescue	Allied Seed LLC
23	DTTHO TF/KBG Mi	x45% DTT20 tall fescue 45% DTT43 tall fescue 10% Holiday lawn Ky. Bluegrass	Allied Seed LLC
24	A-SFT	10% A-SFT tall fescue	Allied Seed LLC
*25	Kingdom	100% Kingdom tall fescue	SiteOne Landscape Supply
*26	Resolute (7H7)	100% 7H7 hard fescue	SiteOne Landscape Supply
20	Northern Mixture	40% VNS perennial ryegrass	ProSeeds Marketing
_,		20% VNS Kentucky bluegrass	B
		20% VNS chewings fescue	
		20% VNS creeping red fescue	
28	Southern Mixture	70% VNS tall fescue	ProSeeds Marketing
		10% VNS Kentucky bluegrass	C
		10% VNS perennial ryegrass	
		10% VNS chewings fescue	
*29	CS Mix	40% Castle chewings fescue	Columbia Seeds LLC
		40% Sword hard fescue	
		10% Kent creeping red fescue	
		10% B-15.2415 Blue Mesa sheep fescue	
*30	Yaak	100% Yaak western yarrow	Pacific NW Natives
*31	Radar	100% Radar chewings fescue	Standard entry
*32	Kenblue	100% Kenblue Kentucky bluegrass	Standard entry

* Commercially Available in the USA in 2021

TABLE A.

2020 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2015 NATIONAL LOW INPUT COOL-SEASON 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
CT1 CT2 IN1	SANDY LOAM SANDY LOAM SILT LOAM AND SILT	6.1-6.5 6.1-6.5 7.1-7.5	0-60 0-60 61-150	151-240 151-240 151-240	 1.1-2.0	FULL SUN FULL SUN FULL SUN	3.6-4.0 3.6-4.0 4.1+	NO IRRIGATION NO IRRIGATION NO IRRIGATION
IN2 MI1 MN1	SILT LOAM AND SILT 	7.1-7.5 - 6.1-6.5	61-150 _ 61-150	151-240 _ 241-375	1.1-2.0 0.0-1.0	FULL SUN - FULL SUN	4.1+ _ 3.1-3.5	NO IRRIGATION NO IRRIGATION
MO1	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	$\begin{array}{c} 0.0 - 1.0 \\ 0.0 - 1.0 \\ 3.1 - 4.0 \end{array}$	FULL SUN	2.6-3.0	NO IRRIGATION
MO2	SILT LOAM AND SILT	5.6-6.0	0-60	151-240		FULL SUN	2.6-3.0	NO IRRIGATION
NC1	SILTY CLAY LOAM	6.1-6.5	61-150	0-150		FULL SUN	3.1-3.5	TO PREVENT STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	$\begin{array}{c} 0.0 - 1.0 \\ 0.0 - 1.0 \\ 0.0 - 1.0 \end{array}$	FULL SUN	2.6-3.0	NO IRRIGATION
OR1	SILTY CLAY LOAM	6.1-6.5	0-60	241-375		FULL SUN	2.6-3.0	NO IRRIGATION
PA2	SILT LOAM AND SILT	6.1-6.5	61-150	241-375		FULL SUN	2.6-3.0	NO IRRIGATION
UT1	SILT LOAM AND SILT	7.1-7.5	_	_	0.0-1.0	FULL SUN	3.6-4.0	NO IRRIGATION
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	0-150		FULL SUN	3.1-3.5	NO IRRIGATION

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2020

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	SPRING GREENUP	SUMMER DENSITY
CT1 CT2 IN1					X X X	X X X	X X X	X X X	X X	X X			X X	Х
IN2 MI1 MN1					X X X	X X X	X X X	X X	X X	Х				Х
MO1 MO2 NC1		Х	Х	X X X	X X X	X X X	X X X	X X X	X X X	X X X	Х		Х	
NE1 OR1 PA2	Х	Х	X X	Х	Х	X X	X X	X X	X X	X X X	Х	Х		
UT1 VA1					X X	X X	X X	X X	X X	X X			Х	

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2020

	PERCENT COVER	PERCENT COVER	PERCENT COVER	UNIFORMITY		ADDITIONAL PERCENT WEED	PERCENT PLANTED		I BARE SO	
LOCATION	SPRING	SUMMER	FALL	RATINGS	(SEPTEMBER)	DATA	SPECIES	SPRING	SUMMER	FALL
CT1			Х			Х				
CT2			Х			Х				
IN1				Х						
IN2				Х						
MI1			Х							
MN1	Х	Х	Х			Х		Х	Х	Х
MO1										
MO2										
NC1	Х	Х	Х			Х				
NE1			Х							
OR1			X			Х				
PA2	Х		X			X	Х			
UT1	х				Х					
VA1						Х	Х			

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER 1/ LOW INPUT IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/

2020 DATA TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

			~		-					
NAME	# Entry	CT1	PA2	VA1	NC1	MI1	MO1	NE1	UT1	MEAN
* BULLSEYE	2	5.5	3.3	7.1	4.9	6.3	5.9	4.8	3.1	5.4
DLFPS TFASTC	14	5.8	3.1	7.1	5.3	5.9	5.6	4.3	3.2	5.3
DLFPS TFAM	9	6.0	2.7	6.8	5.8	5.5	5.3	4.4	3.3	5.2
DLFPS TF-A	6	5.3	2.9	6.8	4.9	5.9	5.3	4.9	3.5	5.1
* VITALITY DOUBLE	11	4.8	3.0	6.8	5.1	5.9	5.7	4.1	3.3	5.1
MNHD-15	5	5.7	3.3	7.0	3.3	6.0	5.3	4.3	2.1	5.0
A-SFT	24	4.3	3.2	6.8	4.3	6.1	5.9	4.0	2.8	5.0
* KINGDOM	25	4.6	2.9	6.6	4.2	5.9	5.2	4.8	3.2	4.9
DLFPS CHCRM	7	5.8	3.0	6.8	4.0	5.6	5.2	3.7	2.0	4.9
* KY-31 E+	18	5.3	2.6	6.4	4.2	5.7	4.5	5.3	3.3	4.9
BGR-TF3	4	5.0	2.6	6.5	5.0	5.5	4.9	4.5	3.4	4.9
CRS MIX #3	21	6.6	3.1	7.0	2.8	5.6	5.3	3.4	0.6	4.8
CRS MIX #2	20	5.3	3.3	7.0	3.4	5.8	5.4	3.7	1.9	4.8
DTT TALL FESCUE MIX	22	4.7	2.7	6.4	4.4	5.7	4.9	4.9	3.4	4.8
DTTHO TF/KBG MIX	23	4.3	2.9	6.6	4.1	5.9	5.5	4.2	2.8	4.8
DLFPS CHCRSH	15	5.1	3.0	6.8	4.0	5.6	5.3	3.4	2.1	4.7
* VITALITY LOW	10	5.5	2.9	6.7	4.0	5.5	5.0	3.7	2.2	4.7
* NATURAL KNIT ® PRG MIX	1	4.1	3.2	6.8	3.0	6.2	6.3	3.4	1.4	4.7
SOUTHERN MIXTURE	28	4.4	2.7	6.5	4.5	5.6	5.2	3.9	3.0	4.7
* CS MIX	29	5.1	2.8	6.7	4.4	5.3	5.3	3.1	2.2	4.7
CRS MIX #1	19	5.5	2.8	6.6	3.4	5.5	4.5	4.2	2.2	4.7
* CHANTILLY	12	4.5	3.1	6.8	3.4	5.8	5.6	3.2	1.8	4.6
NORTHERN MIXTURE	27	4.5	2.9	6.7	4.2	5.5	5.5	3.0	2.1	4.6
* RADAR	31	4.4	2.9	6.7	4.1	5.5	5.5	3.1	2.2	4.6
* RESOLUTE (7H7)	26	5.7	2.7	6.5	3.3	5.3	4.2	4.2	2.1	4.6
DLFPS SHHM	8	5.4	2.5	6.4	3.9	5.2	5.1	3.3	1.6	4.6
* YAAK	30	3.7	2.4	6.1	4.7	5.5	4.7	4.6	3.8	4.5
* SPARTAN II	16	5.4	2.8	6.6	3.2	5.3	4.9	3.3	1.4	4.5
* QUATRO	17	4.6	2.8	6.6	3.4	5.4	5.4	2.9	1.4	4.4
* BEWITCHED	3	3.1	2.6	6.1	2.5	5.6	5.4	3.0	1.3	4.1
KENBLUE	32	2.9	2.4	6.0	3.1	5.4	5.2	3.2	2.0	4.0
* DUTCH WHITE CLOVER	13	2.6	2.4	5.9	2.4	5.4	5.5	2.5	1.0	3.8
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		12.7	21.6	9.3	15.5	10.9	11.7	16.0	26.1	13.1

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2021.

**/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI Q&A.PDF

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).

TABLE 2.

MEAN TURFGRASS QUALITY RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER 1/ LOW INPUT IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */ 2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	# Entry	IN1	MN1	OR1	MEAN
CRS MIX #1 CRS MIX #2 VITALITY LOW DLFPS CHCRSH RESOLUTE (7H7) RADAR MNHD-15 DLFPS CHCRM NORTHERN MIXTURE SPARTAN II CS MIX CHANTILLY VITALITY DOUBLE DLFPS TFASTC SOUTHERN MIXTURE QUATRO DLFPS TF-A YAAK BGR-TF3 CRS MIX #3 DTT TALL FESCUE MIX A-SFT BULLSEYE KINGDOM DTTHO TF/KBG MIX KY-31 E+ DLFPS TFAM DLFPS SHHM KENBLUE BEWITCHED NATURAL KNIT © PRG MIX DUTCH WHITE CLOVER	19 20 10 15 26 31 5 7 27 16 29 12 11 14 28 17 6 30 4 21 22 24 25 23 18 9 8 32 3 1 13	5.0 2.1 5.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 5.5 4.5 4	5.8 5.5 5.0 4.8 5.4 4.0 4.0 4.0 4.6 3.9 3.5 3.8 2.9 3.1 2.8 4.0 3.12 2.8 4.0 3.12 2.9 3.1 2.9 3.0 1.1 1.9 2.4 1.9 1.2 1.2	3.6 4.1 4.5 4.0 3.3 4.1 4.6 4.3 3.0 4.5 3.6 3.5 2.77 4.4 3.8 1.3 1.3 1.3 1.1	4.8 4.7 4.77 4.5 4.4 4.5 4.4 4.3 4.1 3.77 3.77 3.55 3.4 3.77 3.55 3.4 3.22 2.8 2.2 1.9
LSD VALUE C.V. (%)		1.0 13.5	1.0 17.8	1.0 18.8	1.0 16.3

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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).

TABLE 3.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COOL-SEASON CULTIVARS UNDER LOW INPUT WITH INITIAL ANNUAL GRASS PRE-EMERGENCE AT STORRS, CT 1/ 2020 DATA

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

NAME	SPRING GREENUP	% GROUND COVER FALL	PERCENT SUMMER	WEEDS FALL	MAY	JUN	QUALITY JUL	RATINGS AUG	SEP	OCT	MEAN
CDC MTX #2	4 0		14.0		F 7	6 0	6 7	7 0		6 7	<i>c</i> . <i>c</i>
CRS MIX #3	4.0	94.3	14.3	5.7	5.7	6.3	6.7	7.0	7.3	6.7	6.6
DLFPS TFAM CRS MIX #2	5.3 4.0	85.0 86.7	11.7 21.7	15.0 23.3	5.3 6.0	6.0 5.7	6.7 5.7	7.7 6.0	7.0 6.7	6.0 6.0	6.4 6.0
DLFPS CHCRM	4.0 5.3	88.3	13.3	23.3 5.7	6.0 5.7	5.7	5.7 6.3	6.0 5.7	6.3	6.0 6.0	6.0 6.0
	5.3 4.7	88.3 95.3	25.0	8.3	5.7 4.7	6.0 6.0	6.3 5.7	5.7 6.3	6.7	6.0 6.7	6.0 6.0
VITALITY LOW	4./ 5.0	95.3 86.7	25.0	13.3	4.7	6.U 5.7	5.7	6.3	6.7	6.3	6.U 5.9
CRS MIX #1	5.0	86.7	25.0	23.3	5.0	6.0	5.3	6.3	6.0	6.3 5.7	5.9
DLFPS TFASTC											
VITALITY DOUBLE	5.0	88.3	21.7	35.0	5.7	5.7	5.7	6.7	6.0	5.0	5.8
MNHD-15	4.3 6.0	86.7 80.0	35.0 48.3	21.7 28.3	4.7	5.3 4.7	6.0 4.7	6.0 5.7	6.3 6.3	5.7 5.7	5.7 5.3
DLFPS TF-A					4.7			5.7			
DLFPS SHHM	4.3	80.0	41.7	33.3	4.0	4.7	6.0		5.0	5.7	5.2
CS MIX	4.0	80.0	35.0	30.0	4.3	5.3	5.0	5.7	5.3	5.0	5.1
RESOLUTE (7H7)	3.7	83.3	35.0	26.7	4.7	4.3	5.3	5.7	6.0	4.7	5.1
RADAR	5.3	58.3	33.3	38.3	4.3	5.7	5.0	5.3	4.7	4.7	4.9
BULLSEYE	5.7	78.3	36.7	26.7	4.3	4.7	4.7	5.0	5.3	4.7	4.8
NORTHERN MIXTURE	5.7	61.7	41.7	51.7	4.3	5.0	5.0	4.7	5.0	4.7	4.8
BGR-TF3	4.7	66.7	51.7	41.7	3.0	4.7	4.7	4.7	5.7	5.3	4.7
SPARTAN II	3.0	71.7	31.7	33.3	3.3	4.7	5.7	4.7	5.0	5.0	4.7
KY-31 E+	5.7	65.0	51.7	40.0	4.3	4.3	4.7	5.3	4.3	4.7	4.6
DLFPS CHCRSH	5.0	55.0	56.7	58.3	3.7	5.3	4.7	4.7	4.3	4.0	4.4
KINGDOM	3.7	50.0	63.3	40.0	2.7	5.0	4.3	4.7	4.7	5.0	4.4
SOUTHERN MIXTURE	5.0	28.3	41.7	45.0	4.3	5.3	4.7	4.0	4.7	3.3	4.4
CHANTILLY	6.7	35.0	60.0	56.7	4.0	4.7	4.3	4.7	4.0	4.0	4.3
DTTHO TF/KBG MIX	4.0	43.3	66.7	45.0	3.7	4.3	4.7	5.7	4.3	3.3	4.3
A-SFT	3.7	43.3	63.3	61.7	3.3	4.7	3.7	5.3	4.7	3.7	4.2
DTT TALL FESCUE MIX	4.3	56.7	61.7	45.0	2.3	4.7	4.7	4.3	4.7	4.7	4.2
NATURAL KNIT ® PRG MIX	6.3	18.3	63.3	80.0	2.3	4.3	3.3	4.0	3.7	2.3	3.3
QUATRO	2.7	60.0	66.7	60.0	3.0	3.7	3.7	3.3	3.3	2.3	3.2
YAAK	3.7	16.7	70.0	85.0	1.7	3.3	4.0	5.0	2.7	2.3	3.2
BEWITCHED	4.0	20.0	80.0	85.0	1.7	4.3	3.0	3.3	3.0	2.3	2.9
KENBLUE	5.0	3.7	90.0	90.0	2.0	2.7	2.7	2.7	2.0	2.0	2.3
DUTCH WHITE CLOVER	2.3	5.3	83.3	91.7	1.0	1.7	2.0	2.3	1.7	1.0	1.6
LSD VALUE	1.3	24.9	26.0	29.1	1.7	1.0	1.3	1.3	1.3	1.3	0.8
C.V. (%)	17.2	26.4	35.2	43.2	26.2	13.1	16.6	15.6	17.1	18.7	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).

MEAN TURFGRASS QUALITY RATINGS OF COOL-SEASON CULTIVARS UNDER LOW INPUT WITH INITIAL ANNUAL GRASS PRE-EMERGENCE AT COLUMBIA, MO 1/ 2020 DATA

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

NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CS MIX DLFPS TFAM RADAR QUATRO CHANTILLY CRS MIX #2 DLFPS TFASTC DUTCH WHITE CLOVER NATURAL KNIT © PRG MIX SOUTHERN MIXTURE DLFPS TF-A KINGDOM KY-31 E+ MNHD-15 SPARTAN II CRS MIX #3 DLFPS CHCRSH DTT TALL FESCUE MIX DTHO TF/KBG MIX RESOLUTE (7H7) VITALITY LOW DLFPS CHCRM KENBLUE CRS MIX #1 A-SFT YAAK DLFPS SHHM BEWITCHED BGR-TF3 NORTHERN MIXTURE BULLSEYE VITALITY DOUBLE	$\begin{array}{c} 6.7\\ 6.7\\ 6.0\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.3\\ 5.3\\ 5.3\\ 5.3\\ 5.0\\ 4.7\\ 0.0\\ 7\\ 2\\ 5.7\\ 5.7\\ 5.3\\ 5.3\\ 5.0\\ 7\\ 2\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7$	6.70006.00703707377700077330037003730	7.03007370375555555555555555555555555555	6.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	5.0 5.0 5.0 4.70 4.70 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.3 3.7 4.3 3.7 4.3 3.7 4.3 3.7 4.3 3.7 4.3 3.7 4.3 3.7	6.0 6.03 5.7370 5.07030703 5.07030703 5.07030 4.035 5.07030 4.037730 4.0007770 4.0007770 3.0300 4.0007770 3.03000 3.07770	6.0 6.0 0.0 0.0 0.0 0.0 0.0 0.0	$\begin{array}{c} 6.2\\ 6.7\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.4\\ 4.3\\ 2.2\\ 2.1\\ 1.0\\ 0.0\\ 0.0\\ 9.8\\ 7.6\\ 5.5\\ 4.4\\ 4.5\\ 4.4\\ 4.5\\ 4.4\\ 4.0\\ 3.0\\ \end{array}$
LSD VALUE C.V. (%)	3.1 23.5	2.3 21.7	2.8 22.3	2.3 18.2	1.7 15.9	2.5 20.7	2.6 20.0	2.0 17.8

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).

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COOL-SEASON CULTIVARS WITH ADDITIONAL FERTILIZER (MEDIUM INPUT) AT WEST LAFAYETTE, IN 1/ 2020 DATA

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

NAME	SUMMER DENSITY	UNIFORMITY	MAY	QUALIT JUN	Y RATING JUL	S AUG	MEAN
DLFPS CHCRSH RADAR A-SFT DTTHO TF/KBG MIX VITALITY LOW CS MIX NORTHERN MIXTURE VITALITY DOUBLE CHANTILLY DLFPS CHCRM DLFPS TF-A MNHD-15 DLFPS TFASTC SOUTHERN MIXTURE SPARTAN II KENBLUE DLFPS TFAM NATURAL KNIT © PRG MIX YAAK BEWITCHED BULLSEYE KINGDOM BGR-TF3 DTT TALL FESCUE MIX RESOLUTE (7H7) CRS MIX #1 CRS MIX #1 CRS MIX #2 QUATRO KY-31 E+ DLFPS SHHM DUTCH WHITE CLOVER CRS MIX #3	5.7 7.3 5.7 7.3 5.7 7.3 5.7 7.3 5.7 6.7 4.7 6.3 4.70 6.0 7.7 6.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 7.3 4.70 6.0 4.70 3.3 4.70 5.70 6.0 7.3 4.70 6.0 4.70 3.3 4.70 6.0 4.70 3.3	$\begin{array}{c} 7.3\\ 6.7\\ 7.0\\ 6.0\\ 6.3\\ 6.7\\ 6.0\\ 7.3\\ 7.0\\ 6.0\\ 7.3\\ 7.0\\ 6.0\\ 7.3\\ 7.0\\ 6.0\\ 5.3\\ 4.3\\ 6.0\\ 7.3\\ 4.7\\ 7.0\\ 6.0\\ 3.3\\ 4.7\\ 7.3\\ 0\\ 3.3\end{array}$	4.7 4.3 4.0 4.3 3.0 4.0 3.7 4.0 2.3 3.0 3.7	$\begin{array}{c} 6.0\\ 4.3\\ 4.7\\ 5.3\\ 5.0\\ 5.3\\ 4.3\\ 4.7\\ 5.7\\ 4.7\\ 5.7\\ 4.7\\ 5.0\\ 4.7\\ 3.7\\ 4.0\\ 3.7\\ 4.3\\ 4.7\\ 3.7\\ 4.3\\ 4.7\\ 3.7\\ 4.3\\ 4.7\\ 3.7\\ 4.3\\ 4.7\\ 2.3\\ \end{array}$	$\begin{array}{c} 5.3\\ 5.0\\ 5.7\\ 4.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5.7\\ 5$	5.3 6.0 5.3 5.3 4.3 5.0 4.7 5.3 4.3 5.0 4.7 5.3 4.7 5.3 4.7 5.3 4.7 5.3 4.7 5.3 4.7 5.7 5.3 4.7 5.7 5.7 7 7 7 7 7 7 7 7 7 7 7	$\begin{array}{c} 4.9\\ 4.8\\ 4.8\\ 4.8\\ 4.7\\ 4.7\\ 4.7\\ 4.5\\ 4.4\\ 4.4\\ 4.3\\ 4.3\\ 4.3\\ 4.2\\ 4.2\\ 4.2\\ 4.1\\ 4.1\\ 3.9\end{array}$
LSD VALUE C.V. (%)	2.2 22.2	2.6 22.8	4.0 27.3		3.0 21.9	1.6 17.5	1.1 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.

TABLE 5.

SPRING GREENUP RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2020 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	CT1	NC1	UT1	MEAN
YAAK DLFPS TFAM SOUTHERN MIXTURE VITALITY LOW DLFPS TF-A DLFPS TFASTC CHANTILLY BGR-TF3 NORTHERN MIXTURE BULLSEYE DLFPS CHCRSH VITALITY DOUBLE DLFPS CHCRM RADAR KY-31 E+ DTTHO TF/KBG MIX KINGDOM CRS MIX #2 A-SFT DTT TALL FESCUE MIX CS MIX RESOLUTE (7H7) KENBLUE CRS MIX #1 DLFPS SHHM NATURAL KNIT ® PRG MIX SPARTAN II BEWITCHED MNHD-15 CRS MIX #3 QUATRO DUTCH WHITE CLOVER	5.7 5.0 6.7 5.0 5.7 5.0 5.3 5.3 5.7 5.0 5.3 5.7 5.0 5.3 5.7 5.0 5.3 5.7 5.0 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 4.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5	5.7 3.3 5.0 4.7 3.3 1.3	$\begin{array}{c} 3.3\\ 4.0\\ 3.7\\ 3.7\\ 3.3\\ 2.3\\ 4.0\\ 2.7\\ 3.0\\ 3.0\\ 4.0\\ 3.0\\ 2.7\\ 4.7\\ 2.0\\ 2.7\\ 3.0\\ 2.7\\ 1.3\\ 1.3\\ 2.0\\ 1.7\\ 2.0\\ 1.3\\ 1.3\\ 2.0\\ 1.7\\ 1.0\\ 2.0\\ 1.3\\ 1.3\\ 1.3\\ 1.0\\ 1.3\\ 1.0\\ 1.3\\ 1.3\\ 1.0\\ 1.3\\ 1.3\\ 1.3\\ 1.0\\ 1.3\\ 1.3\\ 1.3\\ 1.0\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	5.4 5.220009999997664443210888866493 4.999944.443210888866493 3.333222
LSD VALUE C.V. (%)	17.4	20.2	20.5	19.8

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).

TABLE 7.

SUMMER DENSITY RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2020 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	IN1
CRS MIX #1 RADAR CS MIX DLFPS CHCRM DLFPS CHCRSH CHANTILLY MNHD-15 VITALITY LOW CRS MIX #2 RESOLUTE (7H7) A-SFT NORTHERN MIXTURE VITALITY DOUBLE DTT TALL FESCUE MIX KENBLUE QUATRO SOUTHERN MIXTURE BGR-TF3 DLFPS TFASTC KINGDOM SPARTAN II BEWITCHED DLFPS SHHM DLFPS SHHM DLFPS TFAM DTTHO TF/KBG MIX NATURAL KNIT © PRG MIX BULLSEYE DLFPS TF-A KY-31 E+ CRS MIX #3 YAAK DUTCH WHITE CLOVER	8.0 7.7 7.3 7.0 7.0 7.0 6.7 6.3 6.3 6.0 6.0 7.7 5.3 5.0 7.7 5.3 5.0 7.7 4.3 5.0 5.7 7.4 4.3 3.3 0 1.8
C.V. (%)	19.2

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.

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2020 DATA

NAME	MN1	NC1	PA2	UT1	MEAN
NAME YAAK VITALITY DOUBLE BULLSEYE SOUTHERN MIXTURE DLFPS TF-A DTTHO TF/KBG MIX DTT TALL FESCUE MIX DLFPS TFASTC KINGDOM BGR-TF3 VITALITY LOW KY-31 E+ A-SFT DLFPS CHCRH DLFPS CHCRH DLFPS TFAM CS MIX RADAR CHANTILLY KENBLUE DLFPS CHCRM NORTHERN MIXTURE MNHD-15 SPARTAN II CRS MIX #1 RESOLUTE (7H7) CRS MIX #2 BEWITCHED QUATRO NATURAL KNIT © PRG MIX DLFPS SHHM DUTCH WHITE CLOVER	86.7 87.0 85.0 86.0 81.3 86.3 79.7 82.3 79.7 84.3 87.7 84.3 85.3 80.7 91.7 88.0 91.3 85.3 80.7 91.7 88.0 91.3 87.0 81.3 85.3 80.7 91.7 81.3 85.3 80.7 91.7 81.3 85.3 80.7 91.7 81.3 85.3 80.7 91.7 81.3 85.3 80.7 91.7 81.3 85.3 80.7 91.7 81.3 85.3 81.3 80.7 91.7 81.3 85.3 81.3	96.3 99.3 91.3 92.7 91.0 93.3 80.0 93.3 80.0 83.3 80.0 80.3 83.3 80.0 88.3 73.3 91.5 66.7 71.7 78.3 73.3 85.0 71.7 78.3 73.3 85.0 71.7 78.3 73.3 85.0 71.7 78.3 73.3 75.0 71.7 78.3 75.0 71.7 78.3 75.0 71.7 78.3 75.0 75.0 71.7 78.3 75.0	98.3 97.7 97.0 99.0 98.0 98.0 98.0 97.7 98.0 97.7 98.0 97.7 98.0 98.3 99.0 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3	$\begin{array}{c} 70.0\\ 66.7\\ 76.7\\ 70.0\\ 63.3\\ 70.0\\ 63.3\\ 80.0\\ 53.3\\ 80.0\\ 53.3\\ 80.0\\ 53.3\\ 46.7\\ 40.0\\ 56.7\\ 40.0\\ 56.7\\ 40.0\\ 20.0\\ 23.3\\ 33.3\\ 23.3\\ 16.7\\ 16.7\\ 26.7\\ 23.3\\ 20.0\\ 23.3\\ 16.7\\ 16.7\\ 23.3\\ 20.0\\ 23.3\\ 16.7\\ \end{array}$	87.8 87.6 85.831096385.1 822.6382.6385.1 822.6385.1 778.1 777.5.332.546385.3 80.169.385.1 777.19.332.5463.855.348 60.8653.3485.34 60.8653.3485.34
LSD VALUE C.V. (%)	11.9 9.1	18.8 14.0	1.8 1.1	15.9 20.7	6.9 11.0

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 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.

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2020 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NC1	MEAN
NAME CRS MIX #2 DLFPS TF-A RESOLUTE (7H7) YAAK VITALITY DOUBLE BGR-TF3 DLFPS TFASTC KINGDOM DTT TALL FESCUE MIX DTTHO TF/KBG MIX BULLSEYE MNHD-15 QUATRO A-SFT CRS MIX #1 CRS MIX #3 SPARTAN II KY-31 E+ NORTHERN MIXTURE RADAR BEWITCHED DLFPS CHCRSH CS MIX DUTCH WHITE CLOVER SOUTHERN MIXTURE CHANTILLY VITALITY LOW DLFPS TFAM DLFPS CHCRM NATURAL KNIT ® PRG MIX KENBLUE DLFPS SHHM LSD VALUE C.V. (%)	84.7 83.7 86.7 82.7 86.7 91.7 73.3 86.7 91.7 73.3 81.7 88.3 63.3 84.0 90.0 53.7 86.7 84.0	93.3 93.3 86.3 88.3 91.3 86.3 83.3 71.7 79.0 73.3 85.0 75.0 66.7 91.7 68.3 70.0 63.3 96.3 60.0	89.0 88.0 87.5 87.0 86.8 87.0 86.8 87.0 86.0 81.7 80.0 79.5 79.2 78.3 77.5 77.2 77.0 76.7 75.0 73.3 71.3 65.5
LSD VALUE C.V. (%)	12.3 9.3	16.1 12.0	10.1 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).

TABLE 10.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2020 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CT1	MI1	MN1	NC1	NE1	OR1	PA2	MEAN
DTTHO TF/KBG MIX YAAK DTT TALL FESCUE MIX VITALITY DOUBLE CHANTILLY A-SFT KY-31 E+ DLFPS SHHM KENBLUE NATURAL KNIT ® PRG MIX DUTCH WHITE CLOVER BEWITCHED	81.7 96.0 91.3 88.3 51.7 88.3 51.7 86.7 70.0 873.3 86.7 70.0 73.3 80.0 76.7 75.3 73.3 72.0 73.3 72.1 77.1 73.3 73.3 72.1 77.1 73.3 73.3 72.1 77.1 73.3 73.3 72.1 77.1 73.3 73.3 72.1 77.1 77.1 73.3 73.3 72.1 77.1		85.0 95.3 95.0 88.3 53.3 92.0 86.0 93.0 85.3 75.3 75.3 75.3 86.7 82.0 82.0 82.0 82.0 82.0 84.0 74.3 81.0 84.0 75.7 75.3 86.7 82.7 82.7 82.0 82.7 82.0 82.0 82.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 81.0 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.3 84.0 74.0 84.0 74.3 84.0 74.0 84.0 84.0 74.0 84.0 84.0 74.0 84.0	97.7 85.0 91.3 96.0 83.3 81.3 81.7 97.7 90.0 94.3	00.0	62.7	99.0 99.0 99.0 99.0 99.0 99.0 99.0	89.8 87.4 87.09 86.95 85.97 84.53 84.5 84.5 83.77 83.74 80.97 79.9 79.9 79.9 77.79 83.1 83.1
LSD VALUE C.V. (%)	23.8 21.0	21.8 14.7	13.2 10.1	16.0 11.4	16.8 13.0	25.1 27.0	0.5 0.3	7.0 14.1

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).

TURF UNIFORMITY RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2020 DATA

TURF UNIFORMITY RATINGS 1-9; 9=COMPLETELY UNIFORM 2/

NAME	IN1
CHANTILLY DLFPS CHCRM DLFPS CHCRSH RADAR VITALITY DOUBLE BGR-TF3 MNHD-15 NORTHERN MIXTURE CRS MIX #1 CS MIX #1 CS MIX KINGDOM KY-31 E+ DLFPS TFAM DTT TALL FESCUE MIX A-SFT DLFPS SHHM DLFPS TFAM DLFPS TFASTC KENBLUE VITALITY LOW CRS MIX #2 DLFPS TF-A SOUTHERN MIXTURE YAAK BULLSEYE DTHO TF/KBG MIX NATURAL KNIT © PRG MIX SPARTAN II BEWITCHED RESOLUTE (7H7) CRS MIX #3 QUATRO DUTCH WHITE CLOVER LSD VALUE	$\begin{array}{c} 7.0\\ 7.0\\ 6.7\\ 6.3\\ 6.3\\ 6.0\\ 6.0\\ 6.0\\ 6.0\\ 5.7\\ 5.3\\ 5.3\\ 5.3\\ 5.0\\ 5.0\\ 5.0\\ 4.7\\ 4.3\\ 3.7\\ 3.0\\ 1.8 \end{array}$
C.V. (%)	20.3

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

TABLE 12.

PERCENT WEEDS (SEPTEMBER) RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT IN THE U.S. 2/ 2020 DATA

NAME	UT1
DUTCH WHITE CLOVER CRS MIX #3 NATURAL KNIT ® PRG MIX SPARTAN II BEWITCHED MNHD-15 RESOLUTE (7H7) QUATRO DLFPS CHCRSH DLFPS SHHM KENBLUE NORTHERN MIXTURE A-SFT CRS MIX #1 CRS MIX #2 DLFPS CHCRM DLFPS TFASTC SOUTHERN MIXTURE CHANTILLY VITALITY LOW BGR-TF3 BULLSEYE CS MIX DLFPS TF-A DTT TALL FESCUE MIX DTHO TF/KBG MIX KINGDOM VITALITY DOUBLE DLFPS TFAM KY-31 E+ RADAR YAAK	43.3 40.0 33.3 26.7 23.3 20.0 16.7 13.3 13.3 13.3 13.3 10.0 0.0
LSD VALUE C.V. (%)	12.9 67.7

- 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.

PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT AT STORRS, CT 1/ 2020 DATA 2/

NAME	SUMMER	FALL	MEAN
CRS MIX #2 CRS MIX #1 DLFPS TFAM BULLSEYE DLFPS CHCRSH DLFPS SHHM MNHD-15 DLFPS CHCRM CRS MIX #3	86.7 81.7 76.7 70.0 65.0 80.0 66.7 61.7 61.7 61.7 51.7 48.3 53.3 50.0 51.7 55.0 38.3 31.7 35.3 45.0 31.7 30.0 31.7 35.0 31.7 35.0 31.7 35.0 31.7 35.0 31.7 5.3 25.0 31.7 5.3 25.0 31.7 5.3 25.0 31.7 5.3 25.0 31.7 5.3 31.7 5.5 31.7 5.5 31.7 5.5 31.7 5.5 31.7 5.5 5	$\begin{array}{c} 65.0\\ 63.3\\ 60.0\\ 66.7\\ 61.7\\ 38.3\\ 45.0\\ 43.3\\ 36.7\\ 30.0\\ 33.3\\ 36.7\\ 30.0\\ 23.3\\ 18.3\\ 31.7\\ 30.0\\ 25.0\\ 23.3\\ 18.3\\ 31.7\\ 30.0\\ 25.0\\ 8.3\\ 21.0\\ 26.7\\ 19.3\\ 11.7\\ 11.7\\ 7.0\\ 15.0\\ 7.7\\ 15.0\\ 7.7\\ 15.0\\ 7.7\\ 15.0\\ 7.7\\ 3.3\\ \end{array}$	$\begin{array}{c} 75.8\\ 72.5\\ 68.3\\ 68.3\\ 59.2\\ 55.8\\ 55.0\\ 49.2\\ 42.5\\ 42.5\\ 42.5\\ 42.5\\ 42.5\\ 42.5\\ 37.5\\ 36.7\\ 35.0\\ 30.8\\ 29.2\\ 26.7\\ 24.7\\ 22.2\\ 21.7\\ 20.8\\ 20.7\\ 20.0\\ 19.7\\ 13.3\\ 13.0\\ 4.3 \end{array}$
LSD VALUE C.V. (%)	31.3 40.6	26.2 54.8	23.2 38.6

- 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.

PERCENT WEED AND BARE SOIL RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT AT ST. PAUL, MN 1/ 2020 DATA 2/

	BARE SPOT	BARE SPOT	BARE SPOT	% WEEDS	% WEEDS	% WEEDS	% WEED
NAME	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	MEAN
NATURAL KNIT ® PRG MIX	20.0	14.0	13.7	16.3	23.3	23.0	20.9
DLFPS SHHM	28.0	20.3	20.3	14.0	21.7	22.0	19.2
A-SFT	11.7	3.3	8.7	9.3	14.0	21.3	14.9
BEWITCHED	10.3	13.7	13.7	18.3	13.0	12.3	14.6
DTT TALL FESCUE MIX	7.0	4.7	7.3	8.0	11.3	18.3	12.6
BGR-TF3	6.7	2.7	2.7	7.3	11.0	15.3	11.2
DTTHO TF/KBG MIX	8.0	3.3	3.7	6.7	12.0	14.3	11.0
VITALITY DOUBLE	6.0	6.7	8.0	8.7	8.3	11.0	9.3
DLFPS TFAM	38.3	36.7	36.7	7.7	9.7	10.0	9.1
KINGDOM	12.7	6.7	9.3	6.0	7.0	12.3	8.4
KENBLUE	18.3	15.7	15.7	6.3	8.7	8.7	7.9
DUTCH WHITE CLOVER	31.3	28.3	27.3	6.0	8.3	7.0	7.1
DLFPS TF-A	9.0	7.0	7.0	4.0	6.7	7.7	6.1
YAAK	9.3	7.0	9.0	4.0	7.3	7.0	6.1
QUATRO	7.7	7.0	7.3	5.3	6.3	6.0	5.9
DLFPS CHCRM	10.0	7.0	6.0	4.7	6.3	5.7	5.6
DLFPS TFASTC	10.0	8.0	8.7	4.0	5.7	6.3	5.3
SOUTHERN MIXTURE	9.7	7.7	8.0	3.7	6.3	6.0	5.3
KY-31 E+	24.0	22.3	28.7	3.7	4.3	5.3	4.4
BULLSEYE	14.3	13.0	19.0	1.7	3.3	5.7	3.6
MNHD-15	7.0	7.0	6.7	3.0	3.3	3.7	3.3
RESOLUTE (7H7)	3.0	2.3	2.0	3.7	3.3	3.0	3.3
CHANTILLY	14.7	12.3	11.3	1.3	3.7	4.7	3.2
SPARTAN II	6.0	4.7	3.7	2.3	3.7	3.3	3.1
RADAR	13.0	11.3	11.0	2.7	3.3	3.0	3.0
NORTHERN MIXTURE	17.3	16.7	11.3	2.0	3.3	3.3	2.9
CRS MIX #2	6.0	2.0	2.3	2.7	2.7	2.3	2.6
CRS MIX #3	13.3	11.3	10.7	1.7	2.0	2.3	2.0
CS MIX	10.7	9.7	8.0	1.7	2.0	1.3	1.7
CRS MIX #1	11.0	11.3	10.0	1.0	1.3	1.7	1.3
DLFPS CHCRSH	16.7	17.0	16.0	1.3	1.3	1.3	1.3
VITALITY LOW	10.7	8.7	6.7	1.0	1.3	1.3	1.2
LSD VALUE	10.4	10.8	13.2	4.8	8.4	9.3	6.5
C.V. (%)	48.2	59.3	66.7	57.2	69.5	68.6	58.7

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).

TABLE 15.

PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT AT RALEIGH, NC 1/ 2020 DATA 2/

				LOLO DII	=,					0 MEEDO
NAME	FEBRUARY	MARCH	APRIL	MAY	JUNE	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	% WEEDS MEAN
MNHD-15	35.0	46.7	51.7	50.0	56.7	60.0	80.0	81.3	45.0	56.3
BEWITCHED	60.0	65.0	66.7	55.0	51.7	61.7	68.3	46.7	28.3	55.9
OUATRO	21.7	36.7	46.7	53.3	60.0	61.7	84.7	65.0	30.0	51.1
DUTCH WHITE CLOVER	31.7	43.3	50.0	53.3	63.3	61.7	66.7	58.3	30.0	50.9
NATURAL KNIT ® PRG MIX	30.0	41.7	45.0	45.0	58.3	58.3	76.7	53.3	35.0	49.3
KINGDOM	21.7	28.3	38.3	46.7	55.0	66.7	83.3	45.0	21.7	45.2
DTT TALL FESCUE MIX	18.3	26.7	41.7	48.3	45.0	68.3	80.0	51.7	13.3	43.7
KY-31 E+	11.7	20.0	26.7	26.7	21.7	94.7	96.0	75.0	20.0	43.6
CHANTILLY	31.7	38.3	36.7	41.7	50.0	35.0	53.3	46.7	35.0	40.9
DTTHO TF/KBG MIX	11.7	16.7	31.7	38.3	35.0	63.3	76.3	38.3	15.0	36.3
KENBLUE	20.0	31.7	33.3	35.0	43.3	41.7	51.7	35.0	26.7	35.4
CRS MIX #3	28.3	31.7	36.7	35.0	31.7	28.3	55.0	43.3	20.0	34.4
RESOLUTE (7H7)	21.7	30.0	38.3	41.7	31.7	30.0	48.3	33.3	20.0	32.8
DLFPS CHCRM	21.7	25.0	26.7	25.0	28.3	31.7	58.3	38.3	25.0	31.1
SPARTAN II	23.3	25.0	28.3	28.3	41.7	27.0	51.7	35.0	16.7	30.8
A-SFT	11.7	16.7	23.3	26.7	30.0	56.7	68.3	26.7	16.7	30.7
RADAR	25.0	28.3	31.7	30.0	26.7	30.0	45.0	31.7	28.3	30.7
BULLSEYE	8.3	14.3	18.3	20.0	18.3	71.7	85.0	26.7	12.0	30.5
NORTHERN MIXTURE	25.0	25.0	26.7	23.3	25.0	30.0	50.0	31.7	26.7	29.3
CS MIX	16.7	21.7	26.7	25.0	31.7	35.0	48.3	33.3	17.7	28.4
DLFPS CHCRSH	16.7	21.7	28.3	28.3	25.0	28.3	53.3	31.7	21.7	28.3
BGR-TF3	7.7	13.3	18.3	21.7	23.3	56.7	70.0	30.0	10.0	27.9
VITALITY LOW	18.3	25.0	26.7	25.0	26.7	26.7	48.3	31.7	21.7	27.8
CRS MIX #2	16.7	23.3	33.3	35.0	31.7	21.7	33.3	26.7	16.7	26.5
DLFPS TFASTC	5.3	11.7	21.7	25.0	25.0	48.3	60.0	30.0	11.7	26.5
VITALITY DOUBLE	11.7	15.0	20.0	23.3	23.3	46.7	60.0	23.3	8.7	25.8
SOUTHERN MIXTURE	13.3	20.0	26.7	25.0	25.0	30.0	55.0	31.7	5.0	25.7
CRS MIX #1	16.7	18.3	26.7	23.3	31.7	21.7	41.7	26.7	18.3	25.0
DLFPS SHHM	10.0	11.7	16.7	15.0	33.3	28.3	46.7	24.3	15.0	22.3
DLFPS TF-A	3.7	6.7	15.0	15.0	20.0	38.3	55.0	21.7	5.0	20.0
DLFPS TFAM	5.0	7.0	15.0	13.3	11.7	45.0	60.0	16.7	2.3	19.6
ҮААК	1.7	2.7	33.3	11.7	6.7	39.7	30.0	15.0	4.3	16.1
LSD VALUE	21.0	22.2	38.4	22.9	19.4	30.9	35.7	35.3	36.9	21.4
C.V. (%)	61.6	50.9	50.6	39.9	34.5	38.6	29.8	47.2	72.8	33.8

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).

TABLE 16.

PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT AT CORVALLIS, OR 1/ 2020 DATA 2/

NAME	% GRASSY WEEDS	% BROAD LEAF WEEDS	
DLFPS CHCRSH DTT TALL FESCUE MIX RESOLUTE (7H7) CRS MIX #1 CRS MIX #2 SPARTAN II CS MIX SOUTHERN MIXTURE VITALITY DOUBLE NORTHERN MIXTURE RADAR QUATRO VITALITY LOW DLFPS CHCRM DLFPS TFAM DLFPS TFASTC	$\begin{array}{c} 56.7\\ 15.0\\ 15.0\\ 26.7\\ 16.7\\ 5.0\\ 15.0\\ 41.7\\ 8.3\\ 9.0\\ 28.3\\ 6.7\\ 1.7\\ 23.3\\ 4.3\\ 6.7\\ 16.7\\ 8.3\\ 13.3\\ 5.0\\ 1.7\\ 1.7\\ 5.0\\ 6.7\\ 11.7\\ 5.0\\ 6.7\\ 11.7\\ 5.0\\ \end{array}$	50.0 35.0 28.3 51.7 36.7 43.3 46.7 36.7 8.3 33.3 13.3 33.3 13.3 33.3 11.7 29.0 26.7 16.7 23.3 11.7 16.7 25.0 23.3 16.7 18.3 15.0 10.0 15.7 15.0 5.0	$\begin{array}{c} 43.0\\ 42.5\\ 34.2\\ 33.3\\ 31.7\\ 30.0\\ 25.8\\ 25.8\\ 25.0\\ 23.3\\ 21.2\\ 20.8\\ 20.0\\ 17.5\\ 16.7\\ 16.7\\ 16.7\\ 16.7\\ 16.7\\ 16.7\\ 15.8\\ 15.0\\ 15.0\\ 15.0\\ 13.3\\ 12.5\\ 11.7\\ 10.8\\ 10.7\\ 8.3\\ 5.0\\ \end{array}$
LSD VALUE C.V. (%)	16.5 69.2	32.6 60.3	

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

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

TABLE 17.

PERCENT PLANTED SPECIES AND WEEDS RATINGS OF COOL-SEASON CULTIVARS AT KENNETT SQUARE, PA 1/ 2020 DATA 2/

NAME	GRASSY + BROADLEAF WEEDS	PLANTED
DLFPS CHCRM VITALITY LOW NORTHERN MIXTURE BGR-TF3 BULLSEYE DLFPS CHCRSH CRS MIX #2 DLFPS TF-A NATURAL KNIT © PRG MIX SOUTHERN MIXTURE SPARTAN II A-SFT KY-31 E+ QUATRO CRS MIX #3 DLFPS TFASTC KENBLUE VITALITY DOUBLE MNHD-15 CRS MIX #1 DUTCH WHITE CLOVER DLFPS TFAM KINGDOM DTT TALL FESCUE MIX RADAR CHANTILLY BEWITCHED DLFPS SHHM DTTHO TF/KBG MIX RESOLUTE (7H7) CS MIX YAAK	70.0 70.0 71.7 73.3 75.0 75.0 75.0 75.0 75.0 76.7 78.3 81.7 83.3 81.7 83.3 85.0 86.7 91.7 88.3 88.3 88.3 90.0 90.0	$\begin{array}{c} 43.3\\ 41.7\\ 38.3\\ 35.0\\ 33.3\\ 31.7\\ 30.0\\ 30.0\\ 30.0\\ 30.0\\ 30.0\\ 30.0\\ 28.3\\ 26.7\\ 26.7\\ 25.0\\$
LSD VALUE C.V. (%)	30.6 17.1	

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

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

TABLE 18.

PERCENT COVER OF PLANTED SPECIES AND WEED RATINGS OF COOL-SEASON CULTIVARS AT BLACKSBURG, VA 1/ 2020 DATA 2/

NAME	PERCENT SPRING	WEEDS FALL	PLANTED SPECIES SPRING	PLANTED SPECIES FALL
BGR-TF3 BULLSEYE DLFPS TFAM VITALITY DOUBLE DLFPS TF-A KY-31 E+ MNHD-15 SPARTAN II A-SFT CRS MIX #2 CRS MIX #2 CRS MIX #3 DTT TALL FESCUE MIX SOUTHERN MIXTURE DLFPS CHCRM DLFPS CHCRM DLFPS CHCRM DLFPS CHCRSH DLFPS CHCRSH DLFPS CHCRSH DLFPS CHCRSH DLFPS SHHM RADAR RESOLUTE (7H7) VITALITY LOW CHANTILLY QUATRO CS MIX KENBLUE BEWITCHED NATURAL KNIT ® PRG MIX YAAK DUTCH WHITE CLOVER	60.0	46.7	40.0	53.3
LSD VALUE C.V. (%)	14.1 58.6	10.0 42.9	14.0 10.3	10.0 7.4

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).

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT 2020 DATA

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
NAME A-SFT BEWITCHED BGR-TF3 BULLSEYE CHANTILLY CRS MIX #1 CRS MIX #1 CRS MIX #2 CRS MIX #2 CRS MIX #3 CS MIX DLFPS CHCRM DLFPS CHCRH DLFPS CHCRH DLFPS TFAM DLFPS TFAM DLFPS TFAM DLFPS TFASTC DTT TALL FESCUE MIX DTTHO TF/KBG MIX DUTCH WHITE CLOVER KENBLUE KINGDOM KY-31 E+ MNHD-15 NATURAL KNIT © PRG MIX NOCTHERN MIXTURE QUATRO RADAR RESOLUTE (7H7) SOUTHERN MIXTURE SPARTAN II VITALITY DOUBLE VITALITY LOW YAAK LSD VALUE	$\begin{array}{c} 4.4\\ 3.3\\ 4.4\\ 4.3\\ 4.5\\ 4.6\\ 4.1\\ 4.5\\ 4.5\\ 4.5\\ 4.5\\ 4.5\\ 4.5\\ 4.5\\ 4.5$	$18.2 \\ 9.1 \\ 18.2 \\ 63.6 \\ 18.2 \\ 27.3 \\ 36.4 \\ 18.2 \\ 27.3 \\ 54.5 \\ 27.3 \\ 54.5 \\ 27.3 \\ 0.0 \\ 36.4 \\ 36.4 \\ 54.5 \\ 18.2 \\ 18.2 \\ 18.2 \\ 18.2 \\ 27.3 \\ 27$
LSD VALUE C.V. (%)	0.3 14.5	

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

*/ 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).

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

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS. 2/ MAXIMUM IN TOP 25%. THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.