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. 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:

Mr. Aaron Kuenzi, Mountain View Seeds

Mr. Ryan Jeffries, Columbia Seeds, Inc.

Dr. Mike Kenna, 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 http://www.ntep.org/reports/ratings.htm.

2015 NATIONAL LOW INPUT COOL-SEASON TEST

LOCATIONS SUBMITTING DATA FOR 2018

State	Location	Code
Connecticut	Storrs	CT1
Connecticut	Storrs	CT2
Indiana	West Lafayette	IN1
Indiana	West Lafayette (Medium Input)	IN2
Maryland	College Park	MD1
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	Natural Knit ® PRG Mix	50% Mensa perennial ryegrass 50% Savant perennial ryegrass	Ledeboer Seed LLC
*2	Bullseye	100% Bullseye tall fescue	Standard entry
*3	Bewitched	100% Bewitched Ky. Bluegrass	Standard entry
4	BGR-TF3	100% BGR-TF3 tall fescue	Berger International LLC
5	MNHD-15	100% MNHD-15 hard fescue	University of Minnesota
6	DLFPS TF-A	33% Mustang 4 tall fescue	DLF/Pickseed/Seed Research of OR
		33% Grande 3 tall fescue	
		34% Fayette tall fescue	
7	DLFPS ChCrM	24% Longfellow 3 chewings fescue	DLF/Pickseed/Seed Research of OR
		24% Windward chewings fescue	
		24% Chantilly strong creeping red fe	escue
		25% Ruddy strong creeping red fesci	
		3% Microclover TM	
8	DLFPS ShHM	32% Quatro sheep fescue	DLF/Pickseed/Seed Research of OR
		32% Spartan II hard fescue	
		33% Eureka II hard fescue	
		3% Microclover TM	
9	DLFPS TFAM	32% Mustang 4 tall fescue	DLF/Pickseed/Seed Research of OR
		32% Grande 3 tall fescue	
		33% Fayette tall fescue	
		3% Microclover TM	
*10	Vitality Low	80% VNS hard fescue	Landmark Turf & Native Seed
		20% VNS chewings fescue	
*11	Vitality Double	90% VNS tall fescue	Landmark Turf & Native Seed
	Coverage Mixture	10% VNS Kentucky bluegrass	
*12	Chantilly	100% Chantilly strong creeping red	Standard entry
*13	Dutch White Clover	100% Dutch White Clover	Standard entry
14	DLFPS TFAStC	32% Mustang 4 tall fescue	DLF/Pickseed/Seed Research of OR
		32% Grande 3 tall fescue	
		33% Fayette tall fescue	
1.5	DI EDG GLG GH	3% strawberry clover	DIED: 1 1/0 1D 1 00D
15	DLFPS ChCrSH	-	DLF/Pickseed/Seed Research of OR
		14% Windward chewings fescue	
		14% Chantilly strong creeping red fe	
		14% Ruddy strong creeping red fesci	ue
		14% Quatro sheep fescue	
		14% Eureka hard fescue	
*16	Cnartan II	14% Spartan Hard fescue	Standard ontry
*16 *17	Spartan II	100% Spartan II hard fescue	Standard entry
. 1 /	Quatro	100% Quatro sheep fescue	Standard entry

2015 National Low Input Cool-Season Test Entries and Sponsors

Entry No.	Name	Species/Composition	Sponsor
*18	Ky-31 E+	100% Ky-31 tall fescue w/endophyte	Standard entry
19	CRS Mix #1	55% Gladiator hard fescue	Columbia River Seed
		45% 4GUD hard fescue	
20	CRS Mix #2	67% Gladiator hard fescue	Columbia River Seed
		33% NAI13-14 Kentucky bluegrass	
21	CRS Mix #3	45% Gladiator hard fescue	Columbia River Seed
		45% Sword hard fescue	
		10% Dutch White Clover	
22	DTT Tall Fescue Mix	50% DTT20 tall fescue	Allied Seed LLC
		50% DTT43 tall fescue	
23	DTTHO TF/KBG Mix	45% DTT20 tall fescue	Allied Seed LLC
		45% DTT43 tall fescue	
		10% Holiday lawn Ky. Bluegrass	
24	A-SFT	100% 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
27	Northern Mixture	40% VNS perennial ryegrass	ProSeeds Marketing
		20% VNS Kentucky bluegrass	
		20% VNS chewings fescue	
		20% VNS creeping red fescue	
28	Southern Mixture	70% VNS tall fescue	ProSeeds Marketing
		10% VNS Kentucky bluegrass	
		10% VNS perennial ryegrass	
.t. • 0		10% VNS chewings fescue	
*29	CS Mix	40% Castle chewings fescue	Columbia Seeds LLC
		40% Sword hard fescue	
		10% Kent creeping red fescue	
*20	X 7 1	10% B-15.2415 sheep fescue	D. C. MINNE
*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 2019

TABLE A. 2018 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2015 NATIONAL LOW INPUT COOL-SEASON TEST

			SOIL	SOIL		SUN	MOWING	
	SOIL	SOIL	PHOSPHOROUS	POTASSIUM	NITROGEN	OR	HEIGHT	IRRIGATION
LOCATION	TEXTURE	PH	(LBS/ACRE)	(LBS/ACRE)	(LBS/1000 SQ FT)	SHADE	(IN)	PRACTICED
CT1	SANDY LOAM	6.1-6.5	0-60	151-240	-	FULL SUN	3.6-4.0	NO IRRIGATION
CT2	SANDY LOAM	6.1-6.5	0-60	151-240	-	FULL SUN	3.6-4.0	NO IRRIGATION
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	1.1-2.0	FULL SUN	4.1+	NO IRRIGATION
IN2	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	-	-
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	3.6-4.0	NO IRRIGATION
MI1	-	-	-	-	-	-	-	-
MN1	SILTY CLAY LOAM	6.1-6.5	61-150	241-375	0.0-1.0	FULL SUN	3.1-3.5	NO IRRIGATION
MO1	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
MO2	SILT LOAM AND SILT	5.6-6.0	0-60	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
NC1	SILTY CLAY LOAM	6.6-7.0	61-150	0-150	3.1-4.0	FULL SUN	3.1-3.5	TO PREVENT STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	0-60	376-500	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
OR1	SILTY CLAY LOAM	6.1-6.5	0-60	241-375	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
PA2	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
UT1	SILT LOAM AND SILT	7.1-7.5	-	-	-	FULL SUN	3.6-4.0	NO IRRIGATION
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	0-150	0.0-1.0	FULL SUN	3.1-3.5	NO IRRIGATION

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2018

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	SPRING	FALL
LOCATION	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	GREENUP	DENSITY
CT1					X	X	X	X	X	X			X	
CT2					X	X	X	X	X	X			X	
IN1					Х	X	X	X	X	X				X
IN2					Х	X	X	X	X	X				X
MD1		X			X	X	X	X	X		X			
MI1					X	X	X	X	X	X			X	
MN1					X	Χ	X	X	X	Χ				
MO1				X	X	X	X	X	X	X				
MO2				X	X	X	X	X	X	X				
NC1	X	X	X	X	Х	X	X	X	X	X	X		X	
NE1				X	Х	X	X	X	X	X			X	
OR1				X	Х	X	X	X	X	X	X	X		
PA2			X	X	X	X		X		X	X			
UT1				X	X	X	X	X	X	X				
VA1					X	X	X	Х	X	X				

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2018

	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	P	ERCENT WEED F	RATINGS	PERCENT	WEED RAT	TINGS
	COVER	COVER	COVER	WEEDS	BARE SOIL	JUNE	JULY AUGUST	OCTOBER	SPRING	SUMMER	FALL
LOCATION	SPRING	SUMMER	FALL								
CT1			X				X	X			
CT2			X				X	X			
IN1											
IN2											
MD1	X										
MI1		X	X	X							
MN1			X	X	X						
MO1	X			X							
MO2	X			X							
NC1			X			Х	X				
NE1	X		X							X	X
OR1			X							X	X
PA2			X							X	
UT1											
VA1	X		X						X		Χ

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER 1/
LOW INPUT IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2018 DATA

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

NAME	# ENTRY	CT1	PA1	MD1	VA1	NC1	MI1	MO1	NE1	MEAN
DLFPS TFAM	9	7.1	3.7	4.5	7.6	6.1	6.2	6.1	4.4	5.9
DLFPS TFASTC	14	6.2	3.7	4.6	7.5	4.7	5.6	5.6	4.4	5.4
CRS MIX #3	21	6.3	3.0	5.6	7.3	5.0	5.4	5.2	4.1	5.4
VITALITY DOUBLE	11	5.7	4.0	4.4	7.3	4.4	5.9	5.6	4.7	5.3
DLFPS TF-A	6	5.7	3.8	4.3	7.2	4.4	5.7	5.5	4.6	5.2
CRS MIX #1	19	5.6	3.5	5.7	7.5	3.7	5.2	5.1	4.5	5.2
*BULLSEYE	2	5.4	3.9	3.8	7.0	4.4	5.9	5.5	4.6	5.1
CRS MIX #2	20	5.3	3.6	5.9	7.3	3.7	5.4	5.0	4.8	5.1
BGR-TF3	4	5.2	3.6	4.2	7.0	3.8	5.4	5.2	4.4	4.9
VITALITY LOW	10	5.3	3.3	5.0	7.2	3.4	4.9	4.9	4.2	4.9
MNHD-15	5	5.0	3.4	5.4	7.2	3.1	5.0	4.8	4.5	4.8
*SPARTAN II	16	4.9	3.4	5.0	6.9	3.5	5.3	4.8	4.6	4.8
*RESOLUTE (7H7)	26	4.9	3.5	4.9	7.0	3.2	5.1	4.8	4.5	4.8
DLFPS CHCRM	7	4.9	3.4	4.4	6.8	3.5	5.2	4.9	4.3	4.7
SOUTHERN MIXTURE	28	4.9	3.6	3.9	6.8	3.5	5.3	5.1	4.4	4.7
DLFPS SHHM	8	4.9	3.0	4.0	6.3	4.1	5.3	4.7	4.0	4.6
DTTHO TF/KBG MIX	23	4.2	3.9	3.4	6.5	3.2	5.6	5.0	4.7	4.6
*RADAR	31	4.5	3.4	4.6	6.9	2.7	4.8	4.7	4.3	4.5
DTT TALL FESCUE MIX	22	4.8	3.4	3.5	6.7	3.2	5.0	4.9	4.1	4.5
*CS MIX	29	5.0	3.1	4.3	6.9	2.9	4.6	4.7	3.8	4.5
A-SFT	24	4.4	3.6	3.4	6.5	3.2	5.3	4.9	4.3	4.4
DLFPS CHCRSH	15	4.3	3.4	4.4	6.6	2.7	5.0	4.6	4.4	4.4
*YAAK	30	4.8	3.4	2.9	6.6	3.0	4.8	4.9	3.7	4.3
*KY-31 E+	18	4.0	3.6	2.8	6.1	3.2	5.5	4.8	4.4	4.3
*KINGDOM	25	4.4	3.3	2.9	6.4	2.9	4.9	4.8	3.8	4.2
*CHANTILLY	12	3.9	3.3	4.2	6.4	2.3	4.8	4.3	4.3	4.2
NORTHERN MIXTURE	27	3.8	3.4	3.8	6.3	2.4	4.9	4.4	4.3	4.1
*QUATRO	17	4.0	3.0	3.6	6.0	3.0	4.9	4.3	4.0	4.1
*KENBLUE	32	3.0	3.7	3.3	5.7	2.5	5.5	4.3	4.9	4.0
*BEWITCHED	3	2.6	3.1	2.3	5.1	2.3	5.1	3.9	4.2	3.5
*NATURAL KNIT ® PRG MIX	1	2.4	2.8	1.7	4.8	1.9	4.6	3.7	3.7	3.1
*DUTCH WHITE CLOVER	13	1.4	2.9	2.0	4.2	1.7	5.1	3.3	4.4	3.0
LSD VALUE		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)		12.5	16.9	14.5	8.8	17.3	11.1	12.1	13.4	12.7

^{*/} COMMERCIALLY AVAILABLE IN THE USA IN 2018.

^{**/} 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).

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

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER 1/
LOW INPUT IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

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

NAME	# ENTRY	IN1	MN1	UT1	OR1	MEAN
YAAK	30	7.2	3.7	4.4	4.6	5.0
VITALITY DOUBLE	11	6.8	3.6	3.7	4.4	4.6
DTTHO TF/KBG MIX	23	6.8	3.6	3.8	4.3	4.6
KINGDOM	25	6.8	3.4	3.9	4.3	4.6
RADAR	31	6.5	5.1	3.0	3.7	4.6
DTT TALL FESCUE MIX	22	6.7	3.7	3.7	4.2	4.6
SOUTHERN MIXTURE	28	6.6	3.6	3.5	4.1	4.5
DLFPS TFASTC	14	6.6	3.4	3.5	4.3	4.5
CS MIX	29	6.4	4.6	3.0	3.8	4.4
VITALITY LOW	10	6.3	4.8	2.8	3.7	4.4
DLFPS TF-A	6	6.6	3.2	3.5	4.3	4.4
CRS MIX #1	19	6.2	5.1	2.5	3.6	4.4
A-SFT	24	6.5	3.3	3.5	4.0	4.3
BULLSEYE	2	6.6	2.7	3.7	4.4	4.3
BGR-TF3	4	6.4	3.5	3.3	4.0	4.3
MNHD-15	5	6.2	5.3	2.4	3.4	4.3
RESOLUTE (7H7)	26	6.2	4.6	2.6	3.6	4.3
DLFPS CHCRSH	15	6.2	4.6	2.7	3.5	4.2
NORTHERN MIXTURE	27	6.3	4.2	2.9	3.5	4.2
CHANTILLY	12	6.1	4.7	2.5	3.3	4.1
DLFPS CHCRM	7	6.1	3.8	2.7	3.6	4.1
KY-31 E+	18	6.3	2.4	3.4	3.9	4.0
CRS MIX #2	20	5.8	4.8	2.0	3.2	4.0
SPARTAN II	16	5.8	4.0	2.2	3.2	3.8
DLFPS TFAM	9	5.9	1.3	3.3	4.2	3.7
KENBLUE	32	5.7	2.9	2.4	3.1	3.5
QUATRO	17	5.3	2.5	2.0	2.9	3.2
BEWITCHED	3	5.2	1.7	2.1	2.8	2.9
CRS MIX #3	21	4.9	2.6	1.4	2.8	2.9
NATURAL KNIT ® PRG MIX	1	5.2	1.5	2.2	2.7	2.9
DLFPS SHHM	8	4.9	1.7	1.7	2.8	2.8
DUTCH WHITE CLOVER	13	4.1	0.7	0.8	1.6	1.8
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		9.5	16.8	20.4	16.0	14.5

^{*/} 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).

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

TABLE 3. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT WITH INITIAL ANNUAL GRASS PRE-EMERGENCE AT STORRS, CT 1/2018 DATA

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

		PERCENT									
	SPRING	GROUND COVER	PERCENT				~	TY RATIN	GS		
NAME	GREENUP	FALL	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CRS MIX #3	5.0	92.7	1.0	10.0	6.0	7.3	7.7	6.3	7.0	7.0	6.9
DLFPS TFAM	3.3	96.0	3.0	20.0	6.7	7.7	6.7	5.7	6.3	6.3	6.6
DLFPS TFASTC	4.3	96.0	20.7	33.3	6.7	6.0	5.7	6.0	6.3	6.3	6.2
VITALITY LOW	5.0	91.7	5.7	40.0	5.3	6.7	6.0	5.7	5.7	6.0	5.9
CS MIX	6.0	84.3	23.7	43.3	5.7	6.3	5.7	5.3	5.3	6.3	5.8
BULLSEYE	4.0	94.3	26.7	28.3	5.7	6.0	4.7	6.0	5.7	6.0	5.7
DLFPS SHHM	5.3	58.3	4.0	36.7	5.3	6.3	6.3	5.7	5.3	5.0	5.7
DLFPS CHCRM	7.3	88.3	2.7	46.7	6.3	6.0	5.3	5.7	5.0	5.3	5.6
RADAR	7.0	85.0	13.3	46.7	5.7	6.0	5.3	4.7	5.3	5.7	5.4
MNHD-15	5.7	75.0	23.3	58.3	4.3	6.3	5.7	5.3	4.7	5.7	5.3
SPARTAN II	6.0	78.3	9.3	53.3	5.7	6.0	5.7	5.3	4.3	5.0	5.3
CRS MIX #1	6.0	81.3	20.7	58.3	5.3	5.0	5.7	5.7	3.7	5.7	5.2
VITALITY DOUBLE	3.7	93.3	33.3	50.0	5.7	4.7	6.0	4.3	4.3	6.0	5.2
DLFPS TF-A	4.0	94.3	23.3	50.0	4.7	5.0	5.0	5.0	4.3	6.0	5.0
CRS MIX #2	5.0	89.3	39.0	61.7	5.3	5.0	5.7	5.3	3.3	5.0	4.9
KINGDOM	4.0	90.0	43.3	66.7	5.0	4.3	4.7	4.7	4.7	5.7	4.8
DLFPS CHCRSH	6.0	66.7	20.7	85.0	5.7	5.0	5.3	3.7	2.7	5.7	4.7
SOUTHERN MIXTURE	4.3	85.0	48.3	83.3	6.0	5.3	4.7	3.3	4.0	4.3	4.6
DTT TALL FESCUE MIX	4.3	88.3	41.7	80.0	4.0	4.7	4.3	4.3	4.0	5.3	4.4
BGR-TF3	4.3	93.0	50.0	61.7	4.0	4.7	3.3	3.7	4.0	6.0	4.3
A-SFT	4.3	86.7	40.0	81.7	4.0	4.7	4.7	4.0	2.7	5.3	4.2
DTTHO TF/KBG MIX	4.0	80.0	56.7	83.3	4.0	4.0	4.3	3.7	3.7	5.3	4.2
RESOLUTE (7H7)	6.3	56.7	48.3	85.0	4.7	4.3	4.3	5.0	3.0	4.0	4.2
CHANTILLY	7.3	51.7	30.0	81.7	4.3	4.3	4.3	3.7	4.0	4.0	4.1
YAAK	3.0	43.3	30.0	73.3	5.7	5.3	3.0	4.0	3.0	3.7	4.1
KY-31 E+	3.0	66.7	55.0	66.7	5.3	4.0	3.7	4.3	3.0	3.7	4.0
NORTHERN MIXTURE	7.0	66.7	53.3	80.0	5.3	4.0	3.3	3.3	2.3	2.3	3.4
QUATRO	5.0	33.3	51.7	70.0	4.0	3.7	4.7	2.7	2.3	2.3	3.3
BEWITCHED	7.3	76.7	86.7	81.7	3.0	2.7	2.7	3.3	3.0	3.0	2.9
NATURAL KNIT ® PRG MIX	5.7	56.7	48.3	83.3	2.7	4.3	2.3	2.0	2.7	2.7	2.8
KENBLUE	6.7	11.7	91.7	95.7	2.7	2.0	2.0	1.7	1.3	1.3	1.8
DUTCH WHITE CLOVER	2.0	0.7	91.7	95.7	1.0	1.7	1.0	1.0	1.0	1.0	1.1
LSD VALUE	1.3	19.1	28.7	35.1	1.7	1.4	1.7	1.5	2.1	1.4	1.0
C.V. (%)	16.4	17.2	50.4	32.8	20.8	17.9	22.3	21.5	31.7	18.8	13.7

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

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

TABLE 4. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COOL-SEASON CULTIVARS GROWN
WITH ADDITIONAL FERTILIZER (MEDIUM INPUT) AT WEST LAFAYETTE, IN 1/
2018 DATA

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

	FALL		QU	ALITY R	ATINGS			
NAME	DENSITY	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
A-SFT	7.3	6.7	7.3	7.0	7.7	7.0	7.0	7.1
BGR-TF3	7.3	7.0	7.3	7.0	7.3	7.3	6.7	7.1
DLFPS TF-A	7.7	7.0	6.7	7.3	7.3	7.3	6.7	7.1
DTTHO TF/KBG MIX	6.7	7.0	7.0	7.0	7.0	7.7	7.0	7.1
BULLSEYE	6.7	7.0	6.7	7.0	7.3	7.0	6.7	6.9
DTT TALL FESCUE MIX	7.7	7.0	6.7	6.3	7.7	7.3	6.7	6.9
KINGDOM	7.3	7.0	6.3	6.7	7.3	7.3	6.0	6.8
VITALITY DOUBLE	7.3	6.7	6.7	7.0	6.7	7.0	6.7	6.8
DLFPS TFAM	7.0	6.0	6.0	7.0	7.3	7.3	6.7	6.7
DLFPS TFASTC	8.0	6.7	6.3	6.3	6.7	7.3	7.0	6.7
YAAK	7.0	7.0	6.0	7.0	6.7	7.0	6.3	6.7
VITALITY LOW	6.3	6.7	6.3	6.7	7.0	6.7	6.3	6.6
SOUTHERN MIXTURE	7.3	7.0	6.3	6.7	7.3	6.7	5.0	6.5
DLFPS CHCRSH	5.7	6.7	6.7	5.7	6.0	6.0	6.7	6.3
NORTHERN MIXTURE	5.7	6.0	6.0	6.7	6.3	6.3	6.3	6.3
CHANTILLY	5.7	7.0	6.7	6.3	6.0	5.3	6.0	6.2
RADAR	5.0	6.7	6.3	6.3	6.0	5.3	6.7	6.2
BEWITCHED	6.0	6.0	6.3	6.0	5.7	6.0	6.7	6.1
KY-31 E+	6.7	5.3	5.3	6.3	7.0	7.0	5.7	6.1
CRS MIX #2	6.0	5.3	6.0	6.7	6.7	5.7	5.3	5.9
KENBLUE	5.7	5.0	6.0	6.3	6.0	5.7	6.7	5.9
MNHD-15	5.3	5.7	6.3	6.0	6.0	5.0	6.3	5.9
RESOLUTE (7H7)	5.3	5.7	5.3	6.0	6.3	5.7	6.7	5.9
CS MIX	5.7	6.3	6.0	6.0	5.7	5.7	5.0	5.8
DLFPS CHCRM	5.3	5.7	5.7	6.0	6.0	5.7	5.7	5.8
NATURAL KNIT ® PRG MIX	5.7	5.3	5.3	5.7	5.3	5.3	5.7	5.4
SPARTAN II	5.7	5.7	5.0	5.3	6.0	5.3	5.3	5.4
CRS MIX #1	5.3	4.7	4.7	5.3	5.7	5.0	6.0	5.2
QUATRO	4.0	5.0	5.0	5.3	5.3	4.0	5.0	4.9
DUTCH WHITE CLOVER	5.3	4.3	3.0	4.3	4.3	4.7	5.3	4.3
DLFPS SHHM	2.7	3.7	3.0	3.7	4.0	4.3	5.3	4.0
CRS MIX #3	2.7	3.3	2.7	2.7	3.7	3.3	5.0	3.4
LSD VALUE	1.3	0.8	0.9	0.8	1.1	1.1	4.5	0.6
C.V. (%)	13.6	9.2	10.4	9.1	11.1	11.7	20.3	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.

TABLE 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COOL-SEASON CULTIVARS GROWN
UNDER LOW INPUT WITH INITIAL ANNUAL GRASS PRE-EMERGENCE AT COLUMBIA, MO 1/
2018 DATA

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

		PERCENT								
	PERCENT GROUND	WEEDS			~	LITY RAT				
NAME	COVER SPRING	SPRING	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS TFAM	91.7	13.3	6.7	6.7	6.3	6.7	6.0	6.0	5.7	6.3
DLFPS TFASTC	86.7	15.0	6.0	6.7	6.0	6.0	6.7	6.0	6.0	6.2
DLFPS TF-A	85.0	18.3	6.0	6.0	6.0	6.0	6.3	6.0	6.3	6.1
DTTHO TF/KBG MIX	83.3	18.3	5.0	6.0	6.7	6.3	6.3	6.3	6.3	6.1
VITALITY DOUBLE	83.3	20.0	5.3	6.0	6.0	6.7	6.7	6.0	6.3	6.1
SOUTHERN MIXTURE	91.7	11.7	6.3	6.3	5.7	5.7	5.3	5.3	5.7	5.8
MNHD-15	83.3	16.7	5.7	5.7	6.0	6.3	5.3	5.3	5.0	5.6
DTT TALL FESCUE MIX	83.3	25.0	5.0	5.3	5.7	5.3	6.0	5.7	5.7	5.5
A-SFT	80.0	21.7	4.7	5.0	5.0	5.3	5.7	5.7	5.7	5.3
BULLSEYE	83.3	18.3	5.3	5.7	5.0	5.3	5.3	5.3	5.0	5.3
KINGDOM	78.3	21.7	5.0	5.7	5.3	5.7	5.3	5.3	4.7	5.3
SPARTAN II	86.7	16.7	5.7	5.7	5.0	5.3	5.0	5.0	5.7	5.3
BGR-TF3	80.0	26.7	5.0	5.3	5.0	5.3	5.0	5.3	5.3	5.2
RESOLUTE (7H7)	85.0	13.3	5.3	5.7	5.3	5.0	4.7	5.0	5.0	5.1
CRS MIX #1	90.0	10.0	6.3	7.0	5.7	4.3	4.0	3.7	4.0	5.0
CRS MIX #2	94.3	10.0	7.0	6.3	5.0	4.3	4.0	4.0	4.0	5.0
KENBLUE	73.3	30.0	4.3	4.3	4.3	5.0	5.7	5.7	5.7	5.0
KY-31 E+	81.7	16.7	5.0	5.0	4.7	5.0	5.3	5.3	5.0	5.0
VITALITY LOW	95.0	6.7	7.7	6.7	5.7	4.7	3.3	3.3	3.3	5.0
YAAK	85.0	8.3	5.3	4.7	4.7	4.7	5.0	5.0	5.0	4.9
BEWITCHED	70.0	30.0	3.7	4.3	4.0	4.7	5.7	5.3	5.7	4.8
CRS MIX #3	75.0	21.7	4.3	5.0	4.7	4.7	5.0	5.0	5.0	4.8
DLFPS SHHM	78.3	25.0	4.7	5.0	4.3	4.3	5.0	5.0	5.0	4.8
NORTHERN MIXTURE	83.3	16.7	5.0	5.0	5.0	4.3	4.3	4.0	4.0	4.5
CS MIX	90.0	15.0	6.0	6.0	4.7	4.0	3.7	3.0	3.0	4.3
DLFPS CHCRM	93.3	8.3	6.7	6.0	5.0	4.0	3.0	2.7	2.7	4.3
DLFPS CHCRSH	85.0	13.3	5.3	5.3	4.7	4.0	3.7	3.3	3.0	4.2
RADAR	91.7	8.3	7.0	6.3	4.7	3.7	3.0	2.3	2.3	4.2
CHANTILLY	85.0	15.0	5.0	5.3	4.3	3.3	3.0	3.0	3.0	3.9
OUATRO	65.0	30.0	3.7	3.0	3.7	3.7	4.0	4.3	4.3	3.8
NATURAL KNIT ® PRG MI		43.3	3.0	3.7	3.0	3.0	2.7	2.7	2.7	3.0
DUTCH WHITE CLOVER	48.3	51.7	2.0	2.3	2.0	2.0	2.0	2.3	2.3	2.1
LSD VALUE	9.4	9.6	0.9	0.9	0.8	1.1	0.9	1.2	1.2	0.6
C.V. (%)	7.5	32.1	11.3	11.2	10.3	14.3	12.7	16.2	16.8	8.6

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

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

TABLE 6. SPRING GREENUP RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2018 DATA

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

NAME	CT1	MI1	NC1	NE1	MEAN
DLFPS CHCRM DLFPS TFAM YAAK SOUTHERN MIXTURE CHANTILLY RADAR BULLSEYE NORTHERN MIXTURE BGR-TF3 DLFPS TFASTC VITALITY DOUBLE NATURAL KNIT ® PRG MIX A-SFT DLFPS CHCRSH DTT TALL FESCUE MIX KINGDOM KENBLUE QUATRO CRS MIX #3 VITALITY LOW SPARTAN II CS MIX DLFPS SHHM DLFPS SHM DLFPS SHM DLFPS TF-A KY-31 E+ BEWITCHED CRS MIX #2 MNHD-15 RESOLUTE (7H7) CRS MIX #1	7.3 5.3 3.3 5.0 7.3 7.3 4.7 5.3 3.7 3.7 3.3 6.3 4.7 5.3	MI1 6.0 6.7 8.3 4.7 3.7 5.0 4.3 4.7 5.7 5.0 3.0 5.0 3.0 3.0 3.3 3.3 3.0 3.7 4.7 4.7 4.7 3.0 3.0 3.3	6.7 7.7 5.0 6.7 6.0 5.7 6.3 7.0 6.3 6.0 7.0 3.0 5.0 7.0 4.7 5.3 5.3	4.7 4.3 4.7 4.0 4.3 4.7 4.0 5.7 5.0 5.3 4.7 4.0 5.3 5.0 5.3 4.3 4.3 4.3 5.0 4.3 4.3 5.0 5.3	6.2 6.0 5.3 5.3 5.3 5.2 5.2 5.1 5.1 5.1 4.8 4.8 4.8 4.7 4.7
DTTHO TF/KBG MIX DUTCH WHITE CLOVER	3.0	5.0 5.0	3.3 2.7	4.0	3.8
LSD VALUE C.V. (%)	1.6	1.0		1.1	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.

TABLE 7. FALL DENSITY RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2018 DATA

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

NAME	IN1
DTT TALL FESCUE MIX A-SFT BGR-TF3 DLFPS TFASTC DTTHO TF/KBG MIX KINGDOM BULLSEYE DLFPS TF-A DLFPS TFAM VITALITY DOUBLE KY-31 E+ SOUTHERN MIXTURE CRS MIX #2 CS MIX NORTHERN MIXTURE RADAR RESOLUTE (7H7) YAAK CHANTILLY CRS MIX #1 DLFPS CHCRM KENBLUE MNHD-15 VITALITY LOW DLFPS CHCRSH BEWITCHED NATURAL KNIT ® PRG MIX SPARTAN II QUATRO	8.0 7.7 7.7 7.7 7.7 7.3 7.3 7.3 7.3
DLFPS SHHM CRS MIX #3 DUTCH WHITE CLOVER	4.0 3.7 2.3
CRS MIX #3 DUTCH WHITE CLOVER LSD VALUE	3.7 2.3
C.V. (%)	11.7

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

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

TABLE 8. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2018 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MO1	NE1	VA1	MEAN
CRS MIX #1	97.7	91.7			
VITALITY LOW	94.7	91.7	90.0		
RADAR	96.3	91.7	86.7		
DLFPS CHCRM	93.3	90.0	90.0	99.0	93.1
CRS MIX #2	96.3	86.7	90.0	99.0	93.0
DLFPS TF-A	86.7	91.7	90.0	99.0	91.8
CRS MIX #3	93.3	83.3	90.0	99.0	91.4
DLFPS TFAM	90.0	90.0	83.3	99.0	90.6
RESOLUTE (7H7)		83.3	90.0	99.0	90.6
CHANTILLY	93.3	81.7	90.0	96.0	90.3
VITALITY DOUBLE	90.0	85.0	86.7	99.0	90.2
DLFPS CHCRSH	93.3	85.0	83.3	99.0	90.2
SOUTHERN MIXTURE	88.3	83.3	90.0	99.0	90.2
CS MIX	91.7	80.0	90.0	98.3	90.0
NORTHERN MIXTURE	93.3	78.3	86.7	99.0	89.3
DLFPS TFASTC	88.3	81.7	967	99.0	88.9
DTTHO TF/KBG MIX	81.7	85.0	90.0	99.0	88.9
MNHD-15	96.3	70.0	90.0	99.0	88.8
DTT TALL FESCUE MIX	81.7		90.0	99.0	88.5
BGR-TF3	86.7	83.3	83.3	99.0	88.1
SPARTAN II	93.3	76.7	83.3	99.0	88.1
YAAK	81.7	81.7	86.7	99.0	87.3
BULLSEYE	73.3	85.0	90.0	99.0	86.8
KY-31 E+	73.3	81.7	90.0	99.0	86.0
BULLSEYE KY-31 E+ KENBLUE QUATRO DLFPS SHHM	81.7	70.0	90.0	97.7	84.8
QUATRO	81.7	68.3	90.0	99.0	84.8
DLFPS SHHM	93.3	65.0	73.3	96.0	81.9
A-SFT	55.0	81.7	90.0	99.0	81.4
KINGDOM	43.3	76.7	86.7	99.0	76.4
BEWITCHED	21.7	55.0	83.3	99.0	64.8
NATURAL KNIT ® PRG MIX		40.0	90.0	91.3	59.9
DUTCH WHITE CLOVER		45.0	83.3	97.7	57.8
LSD VALUE	15.3	13.6	9.6		5.7
C.V. (%)	12.0	10.7	6.8	2.3	8.3

^{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 9. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2018 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MI1	
DLFPS TFAM	93.0	
KY-31 E+	93.0	
DUTCH WHITE CLOVER	90.0	
SOUTHERN MIXTURE	89.7	
DUTCH WHITE CLOVER SOUTHERN MIXTURE DLFPS TFASTC	86.7	
YAAK	86.3	
SOUTHERN MIXTURE DLFPS TFASTC YAAK BGR-TF3 DLFPS TF-A KENBLUE	83.3	
DLFPS TF-A	83.3	
KENBLUE	83.3	
VITALITY DOUBLE	83.3	
A-SFT	80.0	
BEWITCHED	80.0	
BULLSEYE	80.0	
DTT TALL FESCUE MIX	80.0	
DTTHO TF/KBG MIX	80.0	
KINGDOM	80.0	
NATURAL KNIT ® PRG MIX		
CHANTILLY	73.3	
SPARTAN II DLFPS CHCRM NORTHERN MIXTURE	66.7	
DLFPS CHCRM	63.3 63.3	
NORTHERN MIXTURE		
/	60.0	
CRS MIX #3	56.7	
CS MIX	56.7	
MNHD-15	56.7	
CRS MIX #1	53.3	
DLFPS CHCRSH	53.3	
RADAR	53.3	
DLFPS SHHM	50.0	
CRS MIX #2	46.7	
VITALITY LOW	43.3	
QUATRO	36.7	
LSD VALUE	22.5	
C.V. (%)	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).

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

TABLE 10. PERCENT LIVING GROUND COVER (FALL) RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2018 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CT1	MI1	MN1	NC1	NE1	OR1	PA2	VA1	MEAN
VITALITY DOUBLE	86.7	97.7	85.7	88.0	90.0	93.3	60.0	99.0	87.5
DLFPS TFAM	91.7	96.0	85.3	97.7	86.7	90.0	40.0	99.0	85.8
BULLSEYE	93.0	93.0	91.0	88.0	90.0	90.0	35.0	99.0	84.9
DLFPS TFASTC	88.3	94.7	85.3	91.0	90.0	91.7	38.3	99.0	84.8
DLFPS TF-A	91.7	93.0	83.3	86.3	90.0	90.0	33.3	99.0	83.3
A-SFT	85.0	96.0	84.3	79.7	90.0	85.0	16.7	99.0	79.5
BGR-TF3	93.3	93.0	69.3	81.7	83.0	90.0	25.0	99.0	79.3
KINGDOM	90.0	96.0	89.3	50.0	90.0	90.0	18.3	99.0	77.8
DTT TALL FESCUE MIX	90.0	90.0	82.0	61.7	90.0	88.3	16.7	99.0	77.2
SOUTHERN MIXTURE	83.3	93.0	84.0	36.7	90.0	92.3	38.3	99.0	77.1
DTTHO TF/KBG MIX	78.3	96.0	73.7	58.3	90.0	90.0	23.3	99.0	76.1
RADAR	80.0	89.7	78.0	36.7	90.0	92.0	38.3	99.0	75.5
DLFPS CHCRM	88.3	86.7	85.0	26.7	90.0	85.7	36.7	99.0	74.8
KY-31 E+	73.3	99.0	84.0	31.7	90.0	78.3	11.7	99.0	70.9
VITALITY LOW	88.3	60.0	81.3	26.7	90.0	85.0	33.3	99.0	70.5
CRS MIX #1	91.7	76.7	76.7	47.3	90.0	58.3	23.3	99.0	70.4
CS MIX	83.3	73.3	77.0	35.0	90.0	90.7	11.7	99.0	70.0
CRS MIX #3	94.7	71.7	85.3	65.0	93.0	26.7	13.3	99.0	68.6
CRS MIX #2	86.7	63.3	73.5	63.3	93.0	55.0	13.3	99.0	68.4
CHANTILLY	63.3	86.7	77.7	20.0	93.0	86.7	16.7	99.0	67.9
NORTHERN MIXTURE	41.7	86.7	78.0	33.3	90.0	85.0	26.7	99.0	67.5
DLFPS CHCRSH	76.7	76.7	75.7	8.3	83.3	92.7	20.0	99.0	66.5
MNHD-15	76.7	70.0	82.3	13.3	90.0	71.7	5.0	99.0	63.5
DLFPS SHHM	80.0	73.3	75.7	21.7	80.0	61.7	6.7	96.0	61.9
YAAK	43.3	94.7	72.7	33.3	86.7	52.3	11.7	99.0	61.7
RESOLUTE (7H7)	71.7	80.0	74.3	40.0	90.0	26.7	11.7	99.0	61.7
SPARTAN II	65.0	80.0	68.0	4.0	86.7	66.7	8.3	99.0	59.7
QUATRO	56.7	66.7	59.0	5.7	90.0	78.3	5.0	99.0	57.5
BEWITCHED	63.3	89.7	36.3	15.0	80.0	5.7	46.7	99.0	54.5
NATURAL KNIT ® PRG MIX	66.7	93.0	42.0	5.7	90.0	31.7	10.0	96.3	54.4
KENBLUE	2.3	93.0	57.7	40.0	90.0	10.0	26.7	99.0	52.3
DUTCH WHITE CLOVER	1.3	96.0	50.7	48.3	90.0	0.0	11.7	97.7	49.5
LSD VALUE	25.7	15.7	13.6	30.4	9.6	22.6	21.0	1.7	6.9
C.V. (%)	21.6	11.3	11.2	41.9	6.7	20.1	57.1	1.1	17.4

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

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

TABLE 11. PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S. 2/
2018 DATA

NAME	MI1	MN1	MO1	MEAN
RESOLUTE (7H7)	20.0 23.3 25.0 40.0 35.0 30.0 26.7 5.0 15.0 28.3 21.7 28.3 5.0 6.7 28.3 5.0 13.3 21.7 15.0 10.0 6.7 3.3	63.7 43.0 42.7 26.3 30.7 11.0 16.3 41.0 25.7 18.3 27.3 22.0 32.0 14.3 19.0 22.7 16.0 22.7 15.3 23.3 27.0 16.0 23.3 24.7 11.3 15.3	43.3 50.0 28.3 23.3 40.0 31.7 28.3 23.3 28.3 11.7 8.3 26.7 16.7 18.3 30.0 26.7 21.7 15.0 15.0 15.0 15.0 16.7	38.8 32.0 29.9 29.7 27.0 26.0 25.9 22.8 22.4 21.8 21.8 21.8 19.7 19.2 18.7 17.6 17.3 17.2 15.7 15.3 15.0 14.9 14.3 12.9 12.3 10.9
LSD VALUE C.V. (%)	26.2	14.1 36.1	14.2 36.3	11.0 54.0

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

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

TABLE 12. PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT AT STORRS, CT 2/
2018 DATA

NAME	PERCENT SUMMER	WEED RATINGS FALL	MEAN
DUTCH WHITE CLOVER	90.0	90.0	90.0
BEWITCHED	86.7	93.0	89.8
KENBLUE	60.0	96.0	78.0
NATURAL KNIT ® PRG MIX	58.3	90.0	74.2
CHANTILLY	48.3	90.0	69.2
NORTHERN MIXTURE	36.7	91.0	63.8
DTTHO TF/KBG MIX	48.3	75.0	61.7
KINGDOM	35.3	75.0	55.2
VITALITY DOUBLE	37.0	68.3	52.7
DTT TALL FESCUE MIX	31.0	73.3	52.2
YAAK	25.0	73.3	49.2
DLFPS CHCRSH	17.0	80.0	48.5
RADAR	20.3	76.7	48.5
SPARTAN II	13.7	78.3	46.0
CRS MIX #2	25.0	63.3	44.2
CS MIX	11.0	75.0	43.0
RESOLUTE (7H7)	20.7	65.0	42.8
A-SFT	28.3	56.7	42.5
MNHD-15	18.3	65.0	41.7
QUATRO	14.7	68.3	41.5
BULLSEYE	38.3	41.7	40.0
BGR-TF3	19.0	53.3	36.2
SOUTHERN MIXTURE	23.3	46.7	35.0
KY-31 E+	26.0	38.3	32.2
DLFPS TF-A	20.7	40.0	30.3
DLFPS CHCRM	4.7	53.3	29.0
VITALITY LOW	6.3	50.0	28.2
DLFPS SHHM	3.0	50.0	26.5
CRS MIX #1	6.7	40.0	23.3
DLFPS TFASTC	2.0	13.3	7.7
DLFPS TFAM	2.7	8.3	5.5
CRS MIX #3	2.0	8.3	5.2
LSD VALUE	31.6	34.6	29.2
C.V. (%)	68.8	33.1	39.2

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

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

TABLE 13. PERCERT WEED RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT AT RALEIGH, NC 2/
2018 DATA

NAME	PERCENT JUNE	WEED RATINGS AUGUST	MEAN
NATURAL KNIT ® PRG MIX	65.0	80.0	72.5
BEWITCHED	51.7	71.7	61.7
A-SFT	55.0	55.0	55.0
YAAK	50.0	58.3	54.2
KY-31 E+	36.7	68.3	52.5
DTTHO TF/KBG MIX	43.3	60.0	51.7
DTT TALL FESCUE MIX	43.3	58.3	50.8
DUTCH WHITE CLOVER	28.3	68.3	48.3
BGR-TF3	31.7	56.7	44.2
QUATRO	23.3	61.7	42.5
CHANTILLY	26.7	53.3	40.0
KINGDOM	25.0	55.0	40.0
NORTHERN MIXTURE	30.0	45.0	37.5
CS MIX	26.7	38.3	32.5
DLFPS CHCRSH	16.7	46.7	31.7
MNHD-15	26.7	36.7	31.7
RADAR	28.3	35.0	31.7
VITALITY LOW	18.3	40.0	29.2
DLFPS TF-A	21.7	28.3	25.0
SOUTHERN MIXTURE	15.0	35.0	25.0
RESOLUTE (7H7)	19.0	30.0	24.5
DLFPS SHHM	14.7	31.7	23.2
VITALITY DOUBLE	11.7	28.3	20.0
KENBLUE	23.3	15.0	19.2
CRS MIX #2	19.0	16.3	17.7
BULLSEYE	15.0	20.0	17.5
DLFPS CHCRM	1.7	31.7	16.7
SPARTAN II	15.0	16.7	15.8
CRS MIX #1	8.3	17.3	12.8
DLFPS TFASTC	1.7	20.0	10.8
CRS MIX #3	0.7	6.3	3.5
DLFPS TFAM	0.0	4.0	2.0
LSD VALUE	18.7	33.7	22.2
C.V. (%)	47.2	47.8	41.9

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

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

TABLE 14. PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT AT MEAD, NE 2/ 2018 DATA

NAME	PERCENT SUMMER	WEED RATINGS FALL	MEAN
QUATRO	66.7	70.0	68.3
DTT TALL FESCUE MIX	56.7	70.0	63.3
BULLSEYE	56.7	66.7	61.7
KY-31 E+	53.3	63.3	58.3
CRS MIX #1	53.3	60.0	56.7
NATURAL KNIT ® PRG MIX	43.3	70.0	56.7
YAAK	53.3	60.0	56.7
BGR-TF3	46.7	63.3	55.0
RADAR	50.0	56.7	53.3
CRS MIX #2	50.0	53.3	51.7
CS MIX	46.7	56.7	51.7
MNHD-15	46.7	56.7	51.7
DLFPS CHCRSH	50.0	50.0	50.0
CHANTILLY	43.3		48.3
RESOLUTE (7H7)	50.0	46.7	48.3
VITALITY LOW			48.3
DTTHO TF/KBG MIX			46.7
A-SFT	26.7	63.3	45.0
DLFPS TF-A	33.3		45.0
DLFPS TFASTC	60.0		45.0
KENBLUE			45.0
VITALITY DOUBLE	33.3	53.3	43.3
KINGDOM		66.7	41.7
NORTHERN MIXTURE		53.3	41.7
SPARTAN II	36.7	46.7	41.7
BEWITCHED		50.0	40.0
SOUTHERN MIXTURE		50.0	40.0
DLFPS CHCRM		26.7	36.7
DUTCH WHITE CLOVER		26.7	36.7
DLFPS SHHM	36.7	33.3	35.0
CRS MIX #3	43.3	23.3	33.3
DLFPS TFAM	23.3	30.0	26.7
LSD VALUE	65.6	23.3	38.9
C.V. (%)	45.5	25.1	29.5
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^{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 15. PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT AT CORVALLIS, OR 2/
2018 DATA

10.7 3.3 20.0 4.7 16.7 18.3 14.0	76.7 68.3 46.7 43.3	1.7 1.7 6.3	42.7 35.4
12.3 3.7 15.0 5.7 12.3 4.0 5.7 5.7 2.0 5.7 5.0 4.3 4.0 4.0 6.0 5.7	13.3 16.7 20.0 16.7 20.0 13.7 13.3 15.0 5.7 16.0 7.0 3.7 6.0 3.0 1.7 3.3 2.7 0.0	1.0 4.0 6.3 0.3 0.3 1.0 0.7 2.3 0.3 4.0 0.0 0.7 2.7 0.7 1.7 4.3 0.7 2.0 0.3	31.6 22.7 17.3 15.3 13.6 13.2 12.5 12.0 10.8 8.6 6.9 6.5 5.3 4.6 4.0 3.3 3.3 2.5 2.4 2.3 2.3
6.0 3.3 4.3 2.3 2.7	0.0 1.7 0.0 0.7 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.7 0.0	1.8 1.7 1.3 1.1 0.8 0.8 0.8 0.8
	2.7 1.7 2.3 2.7	2.7 0.0 1.7 0.0 2.3 0.0 2.7 0.0	2.7 0.0 0.0 1.7 0.0 0.7 2.3 0.0 0.0

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

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

TABLE 16. PERCENT WEED RATINGS OF COOL-SEASON CULTIVARS 1/ GROWN UNDER LOW INPUT AT KENNETT SQUARE, PA 2/ 2018 DATA

NAME	EARLY SUMMER	LATE SUMMER	MEAN
DUTCH WHITE CLOVER	91.7	95.0	93.3
QUATRO	86.7	95.0	90.8
DTT TALL FESCUE MIX	83.3	95.0	89.2
SPARTAN II	85.0	93.3	89.2
KINGDOM	83.3	91.7	87.5
NATURAL KNIT ® PRG MIX	80.0	95.0	87.5
CS MIX	76.7	95.0	85.8
DLFPS SHHM	76.7	95.0	85.8
NORTHERN MIXTURE	78.3	93.3	85.8
CHANTILLY	78.3	91.7	85.0
DLFPS CHCRSH	81.7	88.3	85.0
RESOLUTE (7H7)	76.7	93.3	85.0
BEWITCHED	90.0	76.7	83.3
KENBLUE	78.3	86.7	82.5
A-SFT	68.3	91.7	80.0
DLFPS TF-A	70.0	86.7	78.3
MNHD-15	60.0	95.0	77.5
SOUTHERN MIXTURE	68.3	83.3	75.8
VITALITY LOW	63.3	88.3	75.8
CRS MIX #1	63.3	86.7	75.0
CRS MIX #2	56.7	93.3	75.0
CRS MIX #3	55.0	95.0	75.0
BGR-TF3	60.0	88.3	74.2
KY-31 E+	56.7	91.0	73.8
DLFPS TFAM	76.7	70.0	73.3
YAAK	53.3	93.3	73.3
DTTHO TF/KBG MIX	56.7	83.3	70.0
BULLSEYE	50.0	86.7	68.3
DLFPS TFASTC	63.3	71.7	67.5
RADAR	53.3	81.7	67.5
DLFPS CHCRM	56.7	70.0	63.3
VITALITY DOUBLE	65.0	60.0	62.5
LSD VALUE	22.9	19.7	18.9
C.V. (%)	17.8	11.5	12.0
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^{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 WEED RATINGS OF COOL-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT AT BLACKSBURG, VA 2/
2018 DATA

NAME	PLANTED SPECIES SPRING	WEEDS SPRING	PLANTED SPECIES FALL	WEEDS FALL	MEAN
NAME	SEKING	SEKING	LALL	FALL	MEAN
DLFPS TFAM	8.3	92.7	8.3	92.7	50.5
SPARTAN II	10.0	90.0	8.3	93.0	50.3
A-SFT	10.7	89.3	9.0	91.0	50.0
BEWITCHED	58.3	41.7	58.3	41.7	50.0
BGR-TF3	6.7	93.3	5.0	95.0	50.0
BULLSEYE	7.3	92.7	7.3	92.7	50.0
CRS MIX #1	8.3	91.7	6.7	93.3	50.0
CRS MIX #2	8.3	91.7	8.3	91.7	50.0
DLFPS CHCRM	8.3	91.7	8.3	91.7	50.0
DLFPS CHCRSH	11.7	88.3	13.3	86.7	50.0
DLFPS TF-A	3.0	97.0	5.7	94.3	50.0
DLFPS TFASTC	13.3	86.7	11.7	88.3	50.0
DTT TALL FESCUE MIX	10.0	90.0	10.0	90.0	50.0
DTTHO TF/KBG MIX	8.3	91.7	8.3	91.7	50.0
KINGDOM	10.0	90.0	11.7	88.3	50.0
KY-31 E+	4.0	96.0	5.0	95.0	50.0
MNHD-15	6.7	93.3	6.7	93.3	50.0
NORTHERN MIXTURE	8.3	91.7	8.3	91.7	50.0
QUATRO	15.0	85.0	16.7	83.3	50.0
RADAR	9.0	91.0	11.7	88.3	50.0
RESOLUTE (7H7)	23.3	76.7	21.7	78.3	50.0
YAAK	13.3	86.7	13.3	86.7	50.0
VITALITY DOUBLE	3.0	97.0	2.3	97.3	49.9
VITALITY LOW	15.0	85.0	13.3	86.3	49.9
CRS MIX #3	7.3	92.7	5.0	94.3	49.8
CS MIX	14.0	85.0	16.7	83.3	49.8
SOUTHERN MIXTURE	5.0	95.0	1.7	97.7	49.8
KENBLUE	20.0	78.3	20.0	80.0	49.6
DUTCH WHITE CLOVER	53.3	45.0	50.0	48.3	49.2
CHANTILLY	15.0	81.3	15.0	84.7	49.0
DLFPS SHHM	15.0	81.7	16.7	80.0	48.3
NATURAL KNIT ® PRG MIX	25.0	66.7	31.7	65.0	47.1
LSD VALUE	18.7	18.4	18.4	18.1	2.1
C.V. (%)	80.6	12.8	79.7	12.5	1.7

^{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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR COOL-SEASON CULTIVARS GROWN UNDER LOW INPUT 2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME		MAXIMUM IN TOP 25% 2/	
A-SFT	4.4	8.3	
BEWITCHED	3.4	8.3	
BGR-TF3	4.7	25.0	
BULLSEYE	4.8	50.0	
CHANTILLY	4.2	8.3	
CRS MIX #1	4.9	41.7	
CRS MIX #2	4.7	41.7	
CRS MIX #3	4.5	33.3	
CS MIX	4.4	16.7	
DLFPS CHCRM	4.5	8.3	
DLFPS CHCRSH	4.4	0.0	
DLFPS SHHM	4.0	0.0	
DLFPS TF-A	4.9		
DLFPS TFAM	5.0	58.3	
DLFPS TFASTC	5.0	41.7	
DTT TALL FESCUE MIX DTTHO TF/KBG MIX	4.5	25.0	
DTTHO TF/KBG MIX	4.6	50.0	
DUTCH WHITE CLOVER	2.7	0.0	
KENBLUE	3.9	8.3	
KINGDOM	4.3		
KY-31 E+	4.2		
MNHD-15	4.6		
NATURAL KNIT ® PRG MIX			
NORTHERN MIXTURE	4.2		
QUATRO	3.8	8.3	
RADAR	4.5	25.0	
RESOLUTE (7H7)	4.6	25.0	
SOUTHERN MIXTURE	4.6	25.0	
SPARTAN II	4.5	25.0	
VITALITY DOUBLE	5.0	66.7	
VITALITY LOW	4.7	25.0	
YAAK	4.5	8.3	
LSD VALUE	0.3		
C.V. (%)	13.3		

^{*/} 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 LO