

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT PALM DESERT (FAIRWAY OVERSEEDING), CA 1/
2023 DATA

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

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	PERCENT OCT 2	GREEN COVER			QUALITY RATINGS						MEAN
				APRIL 3	JAN	FEB	MAR	APR	OCT	NOV	DEC		
PPG-PR 658	7.0	71.7	99.0	93.3	8.0	9.0	8.3	9.0	6.3	8.3	8.7	8.2	
DLF-PR-3726	7.3	70.0	99.0	97.3	7.7	8.7	8.3	8.7	6.3	8.0	8.7	8.0	
GREENBACK	7.3	76.7	99.0	96.7	7.0	9.0	8.3	9.0	7.0	7.3	8.3	8.0	
PPG-PR 602	7.3	63.3	99.0	96.0	7.3	8.3	8.3	8.7	6.7	8.0	8.3	8.0	
PPG-PR 611	7.0	63.3	99.0	97.7	8.0	8.7	8.7	8.3	6.7	7.3	8.3	8.0	
PPG-PR 670	7.3	70.0	98.7	98.0	7.7	9.0	8.7	8.7	6.3	7.3	8.0	8.0	
PST-214	8.3	66.7	99.0	96.3	8.0	9.0	8.0	8.3	6.7	7.7	8.3	8.0	
PVF-SGS5	7.3	55.0	99.0	97.3	7.3	9.0	8.7	9.0	6.7	7.0	8.7	8.0	
20PR10	7.3	61.7	99.0	94.7	7.7	8.3	8.3	8.7	6.3	7.7	8.3	7.9	
BRIGHTSTAR SLT	6.7	65.0	99.0	97.3	7.3	8.3	8.0	9.0	7.0	7.3	8.0	7.9	
BSG-PR22	9.0	63.3	99.0	94.7	7.3	9.0	8.7	9.0	6.7	7.0	7.7	7.9	
BY-PS2	7.0	65.0	99.0	68.3	7.7	8.7	8.3	8.0	7.0	7.3	8.0	7.9	
CJP1R	7.7	66.7	98.7	98.7	7.7	9.0	8.0	9.0	6.7	6.7	8.0	7.9	
DLF-PR-3727	7.0	78.3	99.0	94.3	7.7	8.3	7.7	8.3	6.7	7.7	8.7	7.9	
MRSL-PR22	8.7	61.7	99.0	96.3	7.7	9.0	8.3	9.0	6.7	6.3	8.3	7.9	
PPG-PR 620	7.7	68.3	96.7	96.3	7.7	8.7	8.3	8.7	6.3	7.3	8.3	7.9	
PPG-PR 639	7.3	71.7	99.0	97.0	7.3	8.7	8.0	9.0	6.7	7.0	8.3	7.9	
PPG-PR 643	7.3	70.0	98.7	90.7	7.3	9.0	9.0	8.0	6.0	7.3	8.3	7.9	
PST-2SPF	8.0	63.3	98.7	89.7	6.7	9.0	8.7	8.7	6.3	7.7	8.3	7.9	
QUASAR	8.0	71.7	99.0	94.3	8.0	8.7	8.3	8.3	6.7	7.3	8.0	7.9	
ULTRA SPORT (PST-2HAF20)	8.3	75.0	99.0	95.0	7.0	8.7	8.0	9.0	6.7	7.7	8.0	7.9	
BAR LP 22191	6.3	63.3	99.0	94.3	7.3	8.7	8.0	8.7	6.7	7.3	8.0	7.8	
DLF-PR-3730	7.7	75.0	93.7	96.0	7.3	8.7	8.3	8.7	6.0	7.0	8.7	7.8	
DLF-PR-3736	6.7	63.3	99.0	94.0	7.0	8.3	8.0	9.0	7.0	7.3	8.0	7.8	
DLF-PR-3737	7.3	68.3	99.0	96.7	7.3	8.3	8.3	8.3	7.0	7.3	7.7	7.8	
GO-RUS20	7.0	70.0	98.0	97.0	7.0	8.7	8.3	9.0	5.7	7.3	8.3	7.8	
PPG-PR 642	7.0	76.7	99.0	98.3	7.3	8.7	8.0	9.0	7.0	7.0	7.7	7.8	
PPG-PR 647	6.7	75.0	99.0	91.3	7.0	9.0	8.3	8.3	7.0	7.0	8.0	7.8	
PPG-PR 662	6.7	66.7	99.0	98.3	7.3	8.3	8.3	8.3	6.7	7.7	7.7	7.8	
PPG-PR 663	8.0	61.0	99.0	97.7	7.3	8.7	8.0	8.7	6.7	7.3	8.0	7.8	
PPG-PR 668	6.7	60.0	99.0	95.3	7.3	9.0	8.3	8.0	6.7	7.0	8.3	7.8	
PS4	8.3	60.0	91.7	98.0	7.3	8.7	8.7	9.0	6.0	7.0	8.0	7.8	
PST-2E6	7.0	68.3	99.0	95.0	7.0	9.0	8.3	8.7	7.0	7.0	7.7	7.8	
ALPHA CENTAURI	7.3	73.3	97.3	95.7	7.3	8.7	8.7	8.3	6.3	7.0	7.7	7.7	
APS	7.3	60.0	98.3	95.0	7.0	8.7	8.7	8.7	6.0	6.7	8.0	7.7	
BAR LP 22174	6.7	68.3	99.0	95.3	7.3	8.7	7.7	8.3	6.7	7.3	8.0	7.7	
DARK MATTER	8.3	73.3	98.3	96.7	7.3	8.7	8.7	8.7	6.3	6.7	7.7	7.7	
ELEKTRA GLR (PPG-PR 671)	6.7	60.0	99.0	92.0	7.3	8.7	8.3	8.3	6.7	7.0	7.7	7.7	
LTP-NR	6.7	71.7	99.0	96.7	6.7	8.3	8.3	9.0	6.7	7.0	7.7	7.7	
LTP-RPP4	7.3	75.0	96.3	95.0	6.7	8.7	8.3	8.7	6.3	7.3	8.0	7.7	
PISTON	7.7	65.0	99.0	86.7	7.3	8.3	8.3	8.0	6.7	7.3	7.7	7.7	
PPG-PR 637	7.3	65.0	99.0	92.0	6.7	8.7	8.3	8.3	6.7	7.0	8.0	7.7	
PPG-PR 646	7.3	68.3	99.0	95.7	7.0	8.3	8.7	8.3	6.3	7.3	7.7	7.7	
PPG-PR 661	7.3	71.7	99.0	97.0	7.0	8.7	8.3	8.7	7.0	7.0	7.3	7.7	
PPG-PR 665	7.3	73.3	99.0	95.7	6.7	8.7	8.7	8.3	7.0	6.7	7.7	7.7	
PPG-PR 666	6.7	65.0	99.0	97.7	7.3	8.7	8.3	8.7	7.0	7.0	7.0	7.7	

TABLE 1.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT PALM DESERT (FAIRWAY OVERSEEDING), CA 1/
2023 DATA

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

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	PERCENT OCT 2	GREEN COVER			QUALITY RATINGS					
				APRIL 3	JAN	FEB	MAR	APR	OCT	NOV	DEC	MEAN
PPG-PR 667	6.7	61.7	98.7	94.7	7.0	8.7	8.3	8.7	6.3	7.3	7.7	7.7
PST-2BGL	7.7	75.0	98.7	96.7	7.3	8.3	8.7	8.7	6.7	7.0	7.3	7.7
PST-2DRG	7.7	75.0	99.0	95.0	7.0	8.3	8.3	8.3	6.7	7.3	8.0	7.7
PST-2EGY	7.0	61.7	99.0	96.3	7.3	9.0	8.0	8.7	6.7	6.7	7.3	7.7
PST-2GDS	7.3	63.3	99.0	97.0	6.7	8.7	8.7	8.3	6.3	7.0	8.0	7.7
PST-2HFM	8.0	66.7	98.7	98.0	6.7	9.0	8.7	8.7	6.3	7.3	7.3	7.7
PVF-RPP2	8.0	66.7	99.0	92.3	7.0	8.7	8.7	8.7	6.3	6.3	8.0	7.7
SE-DK	8.3	70.0	98.0	97.3	7.0	8.7	9.0	8.7	6.3	6.3	8.0	7.7
TSC-CRS	7.7	75.0	99.0	97.0	7.0	8.3	8.7	8.7	7.0	6.0	8.0	7.7
DLF-PR-3738	7.7	68.3	99.0	90.7	6.0	9.0	8.7	8.3	7.0	7.0	7.3	7.6
GO-RUS21	7.7	75.0	98.7	92.0	7.7	8.3	7.7	8.0	6.3	7.3	8.0	7.6
KARMA	7.3	73.3	97.3	95.0	7.0	8.0	8.0	8.3	6.3	7.3	8.3	7.6
NAI-PR5	7.3	60.0	99.0	95.7	7.3	8.3	8.0	8.3	6.0	7.3	7.7	7.6
PPG-PR 610	7.0	79.3	99.0	95.7	6.7	8.7	8.7	8.3	6.7	7.0	7.3	7.6
RPP3	7.0	76.7	99.0	96.0	6.3	8.7	8.7	8.3	7.0	7.0	7.3	7.6
DLF-LGT-3066	6.3	63.3	96.0	97.0	7.0	8.3	8.0	8.7	6.0	6.7	8.0	7.5
DLF-PR-3728	6.7	78.3	99.0	95.7	6.0	8.3	8.0	9.0	6.3	6.7	8.0	7.5
GO-RUS22	7.3	81.7	99.0	92.3	6.7	8.3	8.3	9.0	6.7	6.3	7.0	7.5
PPG-PR 664	8.0	51.7	99.0	93.0	6.0	8.7	8.7	9.0	6.7	6.7	6.7	7.5
SILETZ	6.7	70.0	99.0	95.3	6.7	8.0	8.3	8.7	6.7	6.7	7.3	7.5
STELLAR 4GL	7.3	55.0	99.0	96.7	7.0	8.3	8.3	9.0	6.7	6.0	7.0	7.5
BAR LP 22262	6.0	81.7	99.0	85.7	7.0	8.0	8.0	8.0	6.7	6.7	7.7	7.4
BAR LP 22263	6.7	66.7	99.0	96.7	7.3	8.0	8.3	8.3	6.0	6.7	7.3	7.4
PPG-PR 606	7.0	73.3	99.0	94.7	6.3	7.7	9.0	8.3	6.7	6.7	7.3	7.4
PST-2ADS	7.0	82.7	99.0	96.0	6.7	8.3	8.0	8.0	6.7	6.7	7.7	7.4
SEPR-2013	8.3	63.3	99.0	76.7	6.3	8.7	8.3	7.7	6.7	6.7	7.7	7.4
DLF-PR-3729	7.0	69.3	99.0	92.3	6.7	8.0	8.3	8.0	6.3	6.7	7.0	7.3
DLF-PR-3735	7.3	65.0	84.7	97.3	6.3	8.3	9.0	8.3	6.0	6.3	7.0	7.3
GRAY EAGLE SLT (PST-2MEG)	7.0	78.3	98.3	98.3	6.7	7.7	9.0	8.7	6.0	6.3	7.0	7.3
SGP4	6.7	78.3	99.0	83.7	6.3	8.7	8.7	8.0	6.7	6.0	7.0	7.3
BAR LP 22256	7.0	70.0	99.0	81.3	6.3	8.0	8.0	8.0	7.0	6.3	7.0	7.2
HOMERUN LS	6.3	80.0	88.3	96.0	6.3	8.3	8.3	8.7	6.0	6.0	6.7	7.2
PPG-PR 644	6.3	66.7	99.0	97.0	7.0	8.0	7.7	8.3	6.0	6.7	7.0	7.2
PST-2MES1	7.3	68.3	99.0	76.7	6.7	8.7	8.3	7.3	6.3	6.7	6.7	7.2
RC20-02O	7.3	66.7	99.0	96.3	6.3	6.7	7.7	8.3	7.0	7.0	7.7	7.2
HIGH OCTANE	7.7	47.7	99.0	77.7	6.0	8.3	8.7	7.7	6.7	5.7	6.3	7.0
LINN	5.3	71.7	99.0	95.0	6.0	7.3	7.0	8.0	6.3	5.7	6.0	6.6
LSD VALUE	2.0	50.1	14.0	43.9	5.9	1.7	1.4	1.6	2.7	3.9	3.6	1.4
C.V. (%)	11.6	17.6	3.7	10.4	14.9	7.1	6.2	6.5	9.1	13.0	12.1	5.4

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 2.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS					
	JAN 6 CONTROL	JAN 6 SALT	JAN 13 CONTROL	JAN 13 SALT	JAN 20 CONTROL	JAN 20 SALT
DLF-LGT-3066	17.3	18.3	21.7	29.7	34.0	32.7
BAR LP 22256	21.0	19.3	29.3	32.3	37.7	36.7
GO-RUS22	21.3	22.0	32.7	33.0	38.0	38.0
GRAY EAGLE SLT (PST-2MEG)	29.7	22.0	34.0	32.0	38.3	40.0
PERFORMANCE (NAI-PR5)	21.7	19.0	28.0	34.7	38.0	37.0
PPG-PR 610	25.7	21.7	35.7	33.0	37.3	36.7
PPG-PR 639	23.3	26.3	29.7	34.0	37.3	38.0
PPG-PR 663	28.0	19.3	36.3	31.0	38.0	34.0
PPG-PR 668	28.3	22.0	34.3	35.0	40.0	39.3
SGP4	24.0	19.0	34.7	32.3	37.3	35.3
ALPHA CENTAURI	21.7	18.0	30.7	29.3	37.3	34.0
BRIGHTSTAR SLT	20.0	20.3	33.3	33.7	38.7	34.0
DLF-PR-3737	18.7	16.0	26.3	28.3	36.3	34.7
GO-RUS21	26.0	20.3	33.0	32.7	36.7	37.0
NEXUS DK (SE-DK)	25.3	22.3	34.7	32.0	38.3	36.7
PPG-PR 647	29.0	20.0	31.0	33.3	37.0	39.0
PPG-PR 670	20.7	21.0	30.0	32.7	35.7	35.3
RELIC (PPG-PR 611)	27.0	21.3	31.3	34.3	38.0	40.3
VORTEX SRT (PPG-PR 665)	30.7	22.7	32.3	33.3	39.3	39.7
BAR LP 22191	25.0	21.7	32.0	32.0	37.0	39.0
BAR LP 22262	24.7	18.0	31.0	31.3	37.3	37.0
DLF-PR-3735	19.0	16.3	30.3	29.0	37.3	36.0
LIGHTSPEED (PST-2DRG)	20.7	21.7	30.7	34.0	37.3	38.7
LTP-RPP4	21.0	20.0	33.7	35.7	37.0	37.0
PPG-PR 661	31.0	23.0	33.7	35.3	39.0	38.7
ULTRA SPORT (PST-2HAF20)	23.7	18.7	32.3	32.0	38.7	37.0
BAR LP 22263	20.0	17.7	30.0	32.3	37.0	34.0
PST-2HFM	30.7	20.0	35.7	35.0	36.7	38.7
DARK MATTER	30.0	19.0	29.3	33.7	36.0	40.0
20PR10	27.7	21.7	32.3	36.7	37.3	38.7
CJP1R	20.7	20.7	29.3	28.7	35.0	36.7
DLF-PR-3726	27.0	20.0	32.3	31.0	37.7	34.7
DLF-PR-3727	26.3	19.0	30.3	32.3	37.0	37.7
DLF-PR-3730	23.3	22.7	33.7	33.7	38.3	37.0
DLF-PR-3736	22.0	20.7	31.0	29.0	38.7	37.3
ELEKTRA GLR (PPG-PR 671)	26.7	22.3	29.3	31.7	38.3	36.7
GREENBACK	27.0	19.7	30.7	33.3	38.0	37.3
KARMA	21.0	18.0	33.0	33.7	38.0	35.0
PPG-PR 646	29.3	21.7	33.3	35.0	39.0	37.0
PPG-PR 664	16.0	19.3	30.7	35.0	38.7	36.0
PPG-PR 666	21.0	18.3	33.3	34.7	38.7	36.7
PST-2ADS	23.7	23.3	30.3	33.3	37.7	35.3
PST-2GDS	22.7	20.0	34.0	35.7	38.0	37.3
PST-2MES1	28.0	19.7	32.7	35.3	37.3	38.3
PPG-PR 637	27.3	19.0	31.7	31.3	38.7	38.0
PPG-PR 662	23.7	22.0	32.0	31.0	37.7	35.7
PPG-PR 667	24.7	18.7	33.0	33.0	38.3	36.7

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT ESTABLISHMENT RATINGS					
	JAN 6 CONTROL	JAN 6 SALT	JAN 13 CONTROL	JAN 13 SALT	JAN 20 CONTROL	JAN 20 SALT
PS4	23.0	18.0	29.0	27.3	37.7	32.3
APS	25.3	19.3	35.0	32.7	37.7	36.0
GO-RUS20	28.0	20.0	31.0	34.3	37.0	37.7
MDSL-PR22	28.7	22.0	28.7	35.3	34.3	37.0
PPG-PR 602	24.7	19.0	34.0	29.7	39.0	35.3
PPG-PR 643	23.7	18.7	36.0	35.7	39.0	37.3
PST-2BGL	22.7	21.7	36.7	31.0	39.0	35.7
SUNDOWN (BY-PS2)	18.3	18.3	28.0	26.7	36.7	33.7
PST-2SPF	24.3	17.7	30.0	31.0	37.7	37.7
BAR LP 22174	28.0	22.3	33.7	35.3	38.0	38.3
DLF-PR-3738	22.7	21.3	29.0	35.0	37.3	36.3
HIGH OCTANE	26.3	18.3	31.0	30.3	37.0	34.7
PPG-PR 644	29.7	20.0	28.0	35.0	39.7	39.0
LTP-NR	24.0	21.7	28.7	32.3	38.7	38.0
PPG-PR 606	24.3	21.7	33.3	31.7	38.0	37.0
PPG-PR 642	22.7	19.0	33.0	35.3	37.7	39.3
PST-2EGY	23.3	21.3	30.7	31.3	37.3	37.0
PVF-SGS5	23.0	19.3	31.3	33.3	36.3	37.7
SILETZ	31.7	20.3	32.0	32.3	39.0	36.7
DLF-PR-3728	23.7	20.0	32.3	32.3	36.7	38.7
PISTON	22.3	21.0	35.7	34.3	37.7	38.3
QUASAR	23.7	19.7	32.3	32.0	36.7	36.7
STELLAR 4GL	29.7	20.3	39.0	33.7	39.7	38.0
HOMERUN LS	27.0	26.0	31.0	36.0	39.3	39.7
PVF-RPP2	23.7	18.3	25.3	32.0	38.0	36.3
RPP3	19.3	17.0	26.3	32.3	37.7	36.7
BSG-PR22	29.7	21.0	31.3	33.7	37.0	38.3
DLF-PR-3729	20.0	15.7	24.0	27.3	31.7	32.0
PROMINENT II (TSC-CRS)	27.3	21.0	29.7	30.0	36.7	36.7
SEPR-2013	18.7	17.3	29.3	32.0	37.0	34.7
PPG-PR 658	23.7	18.7	33.3	32.3	38.7	38.3
FLIGHTLINE (PST-214)	25.7	22.3	35.3	32.7	39.3	38.3
PST-2E6	24.0	19.7	27.7	32.0	36.7	37.7
RC20-020	23.0	21.3	33.0	32.0	39.3	36.3
LINN	21.3	21.7	27.7	32.0	37.0	33.7
PPG-PR 620	21.7	20.0	27.3	29.0	35.0	37.0
LSD VALUE	11.0	7.9	11.4	7.9	5.7	6.6
C.V. (%)	19.5	14.1	13.5	9.4	5.2	6.9

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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

QUALITY RATINGS FOR THE CONTROL 3/

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	8.0	8.0	8.0	8.7	8.3	7.7	5.7	5.0	4.7	4.3	5.7	5.7	6.0	6.3	5.7
BAR LP 22256	8.0	8.0	8.3	8.3	8.3	7.7	6.0	5.3	5.3	5.7	6.0	6.3	6.0	6.3	6.0
GO-RUS22	8.0	8.0	8.3	8.7	8.0	7.7	6.3	4.7	4.7	4.7	5.3	5.7	6.0	6.3	5.7
GRAY EAGLE SLT (PST-2MEG)	8.0	8.0	8.7	9.0	8.3	7.7	5.7	5.7	6.0	6.3	6.3	6.3	6.0	6.7	6.3
PERFORMANCE (NAI-PR5)	8.0	8.0	9.0	9.0	8.0	7.7	6.0	5.0	5.0	5.3	6.0	5.7	6.3	6.7	5.7
PPG-PR 610	8.0	8.0	8.0	8.3	8.0	7.7	5.7	4.7	5.3	5.7	6.0	6.3	6.7	6.7	5.7
PPG-PR 639	8.0	8.0	8.7	8.3	7.7	7.7	5.7	4.3	4.3	5.3	5.0	5.3	5.7	7.0	6.3
PPG-PR 663	8.0	8.3	8.7	8.7	8.7	8.0	6.0	4.7	4.3	4.3	5.0	4.7	5.7	6.3	5.7
PPG-PR 668	8.0	8.0	8.0	9.0	8.3	8.0	6.3	5.7	5.3	5.7	5.7	5.7	5.7	7.0	5.7
SGP4	8.3	8.3	8.3	9.0	8.3	7.7	6.3	5.0	4.3	5.7	6.3	6.0	6.0	6.7	6.0
ALPHA CENTAURI	8.0	8.3	8.3	8.7	8.3	8.0	6.3	6.0	6.3	6.0	6.3	6.3	6.7	6.7	6.0
BRIGHTSTAR SLT	8.0	8.0	8.3	9.0	8.3	8.0	6.3	5.7	7.0	6.0	6.0	5.7	5.7	6.3	6.0
DLF-PR-3737	8.0	8.3	8.3	8.7	7.7	7.7	6.0	5.0	4.3	5.0	5.7	5.7	6.0	6.7	6.0
GO-RUS21	8.0	8.0	8.7	8.3	7.7	8.0	6.0	4.7	4.3	4.7	5.3	5.3	6.0	6.7	6.0
NEXUS DK (SE-DK)	8.3	8.0	8.3	8.3	7.3	7.7	5.3	4.3	4.0	4.0	5.0	5.0	5.3	6.7	6.0
PPG-PR 647	8.0	8.0	8.0	8.7	8.3	8.0	6.3	5.7	5.3	5.7	6.3	5.7	6.0	6.7	6.0
PPG-PR 670	8.3	8.0	8.7	8.3	8.3	8.0	6.7	5.3	5.3	5.3	5.3	5.7	5.7	6.3	6.0
RELIC (PPG-PR 611)	8.0	8.0	8.3	9.0	8.0	7.3	5.7	4.7	4.7	5.0	5.3	5.3	6.0	6.7	6.0
VORTEX SRT (PPG-PR 665)	8.0	8.0	8.3	9.0	8.0	7.3	6.0	5.3	6.0	6.0	6.7	6.3	6.3	6.0	6.0
BAR LP 22191	8.0	8.0	8.3	9.0	8.3	7.7	6.3	5.3	5.3	5.0	5.7	5.3	6.0	6.7	5.7
BAR LP 22262	8.0	8.0	8.3	8.7	7.7	7.3	5.3	4.3	4.3	5.0	5.3	5.7	6.7	6.0	5.7
DLF-PR-3735	8.0	8.3	8.3	8.7	8.3	8.0	6.3	5.3	5.7	5.7	6.0	5.7	6.0	6.3	5.7
LIGHTSPEED (PST-2DRG)	8.0	8.3	8.0	8.7	7.7	8.0	6.0	5.3	5.7	5.7	5.7	6.0	6.0	7.0	5.7
LTP-RPP4	8.0	8.0	8.7	8.3	7.7	7.7	5.7	5.3	5.3	5.7	6.0	6.0	6.3	6.3	5.7
PPG-PR 661	8.0	8.0	8.0	8.7	7.7	7.7	5.7	4.7	4.7	5.7	5.7	5.0	5.7	7.0	6.3
ULTRA SPORT (PST-2HAF20)	8.3	8.0	8.7	9.0	8.3	8.0	6.3	5.3	5.7	6.3	6.3	7.0	6.7	6.7	5.7
BAR LP 22263	8.0	8.0	8.7	8.7	8.3	8.0	6.0	5.7	5.3	5.3	5.3	5.7	5.7	6.0	6.3
PST-2HFM	8.0	8.0	8.7	9.0	7.7	8.0	5.7	6.0	5.7	5.3	5.7	6.0	6.0	7.3	6.3
DARK MATTER	8.0	8.0	8.7	8.7	8.3	7.7	7.0	6.0	5.7	5.0	5.7	4.7	5.7	6.3	6.0
20PR10	8.0	7.7	8.3	8.7	7.7	7.3	5.7	4.7	5.0	5.3	6.0	5.7	6.0	6.0	6.0
CJP1R	8.0	8.0	8.3	8.7	7.7	7.3	5.7	4.3	4.3	5.0	5.3	5.0	5.3	6.0	5.3
DLF-PR-3726	8.0	8.0	8.3	9.0	8.3	7.7	6.3	5.3	6.0	5.7	6.3	5.7	6.0	6.3	6.0
DLF-PR-3727	8.3	8.0	8.7	8.3	8.0	7.7	6.0	4.7	5.0	6.0	6.3	6.0	6.3	7.0	6.0
DLF-PR-3730	8.0	8.0	8.7	8.3	7.7	8.0	6.0	5.0	5.0	5.3	6.7	6.3	6.7	7.3	6.0
DLF-PR-3736	8.0	8.0	8.3	8.7	8.0	7.7	6.0	5.0	5.3	5.7	6.0	5.7	5.7	6.7	6.0
ELEKTRA GLR (PPG-PR 671)	8.3	8.0	8.7	9.0	8.3	7.7	6.3	5.3	5.7	5.3	6.3	5.7	6.0	6.7	6.0
GREENBACK	8.0	8.0	8.7	8.7	8.0	7.0	5.7	4.3	5.3	5.0	5.3	6.0	7.0	6.7	6.0
KARMA	8.0	7.7	8.0	9.0	8.0	7.7	5.7	4.7	4.3	4.7	4.7	5.0	5.7	6.3	6.0
PPG-PR 646	8.0	8.0	8.3	9.0	7.7	7.7	6.0	4.7	5.0	4.7	5.0	5.3	5.7	6.3	6.0
PPG-PR 664	8.0	8.0	8.7	8.7	8.7	7.7	6.3	5.3	6.0	6.0	6.7	6.0	6.3	6.7	6.0
PPG-PR 666	8.3	8.0	8.7	8.3	8.0	7.7	6.3	5.3	5.7	5.7	6.3	6.3	6.3	7.0	6.0
PST-2ADS	8.0	8.0	8.0	8.3	8.0	7.3	5.7	5.3	5.7	5.7	6.7	6.0	6.0	6.0	5.3
PST-2GDS	8.0	8.0	8.7	9.0	8.3	7.7	6.0	5.3	5.0	5.3	6.3	6.0	6.3	6.3	6.0
PST-2MES1	8.0	8.0	8.7	9.0	8.3	7.7	6.0	5.0	4.3	5.0	5.7	6.0	6.0	6.3	6.0
PPG-PR 637	8.0	8.0	8.3	8.3	8.7	7.7	6.3	5.3	5.3	5.3	6.3	5.7	6.0	6.7	6.0
PPG-PR 662	8.0	7.7	8.7	8.7	7.7	7.7	6.0	5.7	4.7	5.0	6.0	6.0	6.3	6.3	6.3
PPG-PR 667	8.0	8.3	8.7	9.0	8.7	8.0	6.3	6.0	6.3	5.7	6.0	6.0	6.3	7.0	6.3

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

QUALITY RATINGS FOR THE CONTROL 3/

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	8.0	8.0	8.7	8.7	8.7	7.7	6.0	5.7	5.3	6.3	6.7	6.3	6.0	6.7	6.3
APS	8.0	8.0	8.0	8.7	7.7	7.3	5.7	5.3	5.7	5.3	5.7	6.0	6.0	6.0	5.7
GO-RUS20	8.0	7.7	8.0	9.0	8.7	7.7	6.7	5.7	5.7	5.7	6.0	5.0	5.3	6.7	6.3
MRS�-PR22	8.0	8.0	8.3	9.0	7.7	7.7	5.7	3.7	3.3	3.7	4.3	5.0	5.7	6.0	5.7
PPG-PR 602	8.0	8.3	8.7	8.7	8.3	7.7	6.3	5.7	6.0	6.0	6.3	5.7	6.0	6.7	6.3
PPG-PR 643	8.3	8.3	8.7	8.7	7.7	7.7	5.7	5.0	5.0	5.3	5.3	5.7	6.3	6.3	5.7
PST-2BGL	8.0	8.3	8.3	9.0	8.0	7.3	5.3	5.3	5.7	5.3	6.3	6.0	6.3	6.3	5.7
SUNDOWN (BY-PS2)	8.3	7.7	8.0	9.0	8.3	7.0	6.0	4.0	4.7	5.0	5.3	5.7	6.3	6.3	5.7
PST-2SPF	8.0	8.3	8.0	8.7	8.3	8.0	5.3	5.0	4.7	5.3	5.7	6.0	6.7	7.7	6.7
BAR LP 22174	8.0	8.0	8.7	8.7	7.3	7.3	6.0	5.0	5.3	5.3	6.0	5.7	6.3	7.0	6.0
DLF-PR-3738	8.0	7.7	8.0	8.7	7.7	7.7	6.7	4.7	5.0	5.0	5.3	5.3	5.3	6.3	6.0
HIGH OCTANE	8.0	8.0	8.0	8.3	7.0	7.3	6.0	4.7	5.0	5.3	5.7	5.7	6.0	6.3	6.0
PPG-PR 644	8.3	8.0	8.7	9.0	7.7	7.3	5.7	5.0	6.0	5.0	6.0	5.7	5.7	6.7	6.0
LTP-NR	8.0	7.7	8.3	9.0	8.0	7.3	5.7	4.7	4.3	4.7	5.7	5.7	6.0	6.3	6.0
PPG-PR 606	8.0	8.0	8.7	8.7	8.0	8.0	6.3	5.0	5.3	5.7	6.3	6.7	6.7	6.3	6.0
PPG-PR 642	8.0	8.0	8.3	8.3	8.0	7.7	5.7	4.7	4.3	5.7	6.0	6.3	6.7	7.0	6.0
PST-2EGY	8.0	8.0	8.3	8.3	7.7	7.3	5.7	4.7	5.7	6.0	6.3	6.7	7.0	6.3	6.0
PVF-SGS5	8.0	8.0	8.7	9.0	8.7	7.7	5.7	5.0	5.0	5.3	6.0	5.7	6.3	6.3	6.0
SILETZ	8.0	8.0	8.0	8.3	8.3	8.0	6.0	5.3	5.3	6.0	6.3	6.0	6.3	6.7	6.0
DLF-PR-3728	8.3	8.0	8.0	8.7	8.0	7.7	6.3	5.3	6.3	6.3	6.3	6.3	6.3	6.0	5.3
PISTON	8.0	8.0	8.7	8.3	7.7	7.3	5.7	4.3	4.7	5.0	5.3	5.3	6.0	5.7	5.3
QUASAR	8.0	7.7	8.3	8.7	7.7	7.7	6.0	4.3	5.0	5.0	5.7	5.7	5.7	7.3	6.3
STELLAR 4GL	8.0	7.7	8.3	8.7	8.0	7.3	6.0	4.7	4.3	4.3	4.7	5.3	6.0	6.7	6.3
HOMERUN LS	8.0	8.0	8.3	8.7	8.3	7.7	6.0	4.3	3.7	4.3	5.3	5.7	5.7	6.7	6.3
PVF-RFP2	8.0	8.0	8.3	8.3	7.0	7.3	5.7	4.7	4.7	5.0	5.0	5.0	5.7	6.3	6.7
RPP3	8.0	8.0	8.3	9.0	8.0	7.7	5.7	5.3	5.3	5.3	6.0	5.7	5.3	6.7	6.7
BSG-PR22	8.0	8.0	8.7	8.7	8.7	8.0	6.0	5.0	5.3	5.0	6.0	5.7	6.7	6.3	5.7
DLF-PR-3729	8.0	8.0	8.0	8.3	8.0	7.7	6.3	5.0	5.0	5.7	6.0	5.3	6.0	6.0	6.0
PROMINENT II (TSC-CRS)	8.0	8.0	8.7	8.3	7.7	7.7	6.0	4.3	4.7	4.7	5.3	5.3	6.0	6.7	6.0
SEPR-2013	8.0	8.0	8.3	9.0	8.3	8.0	5.7	5.3	5.7	6.0	6.3	6.7	6.7	6.0	6.0
PPG-PR 658	8.0	8.0	8.3	8.7	7.7	7.3	5.7	4.7	5.3	5.3	6.0	5.7	6.3	7.3	6.0
FLIGHTLINE (PST-214)	8.3	8.3	8.3	9.0	8.0	8.0	6.0	5.0	5.3	5.3	5.3	5.3	6.0	6.3	6.0
PST-2E6	8.0	7.7	8.0	9.0	8.0	7.0	6.0	4.7	5.7	6.0	6.7	6.3	6.7	6.7	6.0
RC20-020	8.3	8.0	8.7	8.7	8.0	7.3	6.0	4.7	5.3	5.7	6.3	5.7	6.3	6.7	6.0
LINN	8.0	7.7	7.7	8.3	7.7	7.0	5.3	4.0	4.0	4.0	5.0	5.0	5.7	6.0	5.3
PPG-PR 620	8.0	8.0	8.7	9.0	8.7	8.0	6.7	5.3	5.3	5.7	7.0	6.0	6.7	7.0	6.7
LSD VALUE	1.4	2.1	1.8	1.2	1.7	2.3	2.5	2.7	3.5	3.1	3.0	2.1	2.0	2.2	1.5
C.V. (%)	3.1	4.6	5.5	4.5	7.2	6.5	10.1	15.8	20.1	16.7	14.9	12.3	10.2	9.4	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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

QUALITY RATINGS DURING APPLIED SALT TREATMENT 3/

NAME	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	8.0	8.0	8.7	8.7	7.7	7.0	5.7	5.0	4.3	4.0	3.7	3.3	4.0	4.0	3.3
BAR LP 22256	8.3	8.3	9.0	9.0	8.3	7.7	5.7	4.7	3.7	3.3	3.0	2.7	3.0	3.3	3.3
GO-RUS22	8.0	8.3	9.0	9.0	7.3	7.0	5.7	5.3	4.3	4.0	3.7	3.3	3.3	3.3	3.0
GRAY EAGLE SLT (PST-2MEG)	8.0	8.0	9.0	9.0	7.7	7.0	5.3	4.7	4.0	4.0	3.3	3.3	3.7	3.7	3.3
PERFORMANCE (NAI-PR5)	8.3	8.0	9.0	8.7	7.0	7.0	5.3	3.7	3.3	3.3	3.3	2.7	3.3	3.3	3.0
PPG-PR 610	8.0	8.0	9.0	9.0	7.7	7.3	5.7	4.3	3.7	3.7	3.3	3.3	3.3	3.0	3.0
PPG-PR 639	8.0	8.0	9.0	8.7	8.0	7.3	5.7	4.7	3.7	4.0	3.7	3.7	3.7	3.7	3.3
PPG-PR 663	8.0	8.0	9.0	8.7	7.7	7.3	5.7	5.0	4.0	4.0	3.7	3.3	3.0	4.0	3.0
PPG-PR 668	8.0	8.7	9.0	9.0	7.3	7.0	5.3	4.3	3.7	3.7	3.7	3.0	3.0	3.0	3.0
SGP4	8.0	8.0	9.0	8.7	7.3	7.3	5.7	5.3	4.0	4.0	3.3	3.3	4.0	3.7	3.0
ALPHA CENTAURI	8.0	7.7	8.7	9.0	8.0	7.7	5.7	5.0	3.7	3.3	3.0	2.7	3.0	3.3	3.0
BRIGHTSTAR SLT	8.0	8.0	9.0	9.0	7.0	7.0	5.0	4.3	3.3	3.7	2.7	3.0	3.0	3.7	3.0
DLF-PR-3737	8.0	8.0	9.0	8.7	7.3	7.3	5.7	5.0	4.3	4.0	3.3	3.0	3.3	3.3	3.0
GO-RUS21	8.0	8.3	9.0	8.7	7.7	7.0	5.0	4.0	3.3	3.3	3.0	2.7	2.7	3.0	3.0
NEXUS DK (SE-DK)	8.0	8.0	8.7	9.0	7.3	6.7	5.0	4.3	3.3	3.3	3.7	3.3	3.7	3.3	3.0
PPG-PR 647	8.0	8.0	9.0	8.7	7.7	6.7	5.7	4.3	3.3	3.3	3.0	3.0	3.0	2.7	3.0
PPG-PR 670	8.3	8.0	9.0	9.0	7.3	7.0	5.0	4.3	3.3	3.0	2.7	2.7	3.0	3.3	3.0
RELIC (PPG-PR 611)	8.0	8.3	9.0	9.0	7.7	7.0	5.0	4.3	3.3	3.7	3.3	3.0	3.3	2.7	3.0
VORTEX SRT (PPG-PR 665)	8.0	8.0	9.0	9.0	7.7	7.0	5.0	4.3	4.0	3.7	3.3	3.0	3.3	3.3	3.0
BAR LP 22191	8.0	8.0	8.7	8.7	7.3	7.0	5.3	4.3	3.7	3.3	3.3	2.7	3.0	3.0	2.7
BAR LP 22262	8.0	8.0	8.3	8.7	8.0	7.0	5.0	4.7	4.0	3.7	3.3	3.7	3.7	3.7	2.7
DLF-PR-3735	8.0	8.3	9.0	9.0	7.7	7.0	5.0	4.3	3.5	3.3	3.3	2.7	2.7	3.0	2.7
LIGHTSPEED (PST-2DRG)	8.3	8.0	9.0	9.0	7.0	6.7	5.0	4.3	3.7	3.3	3.0	3.0	3.0	2.7	2.7
LTP-RPP4	8.0	8.0	9.0	9.0	7.7	7.0	5.3	4.7	3.0	3.0	2.7	2.7	2.7	2.7	2.7
PPG-PR 661	8.0	8.0	9.0	8.7	7.3	7.0	5.3	5.0	3.3	3.3	3.3	3.3	3.0	3.3	3.0
ULTRA SPORT (PST-2HAF20)	8.0	8.3	9.0	8.7	9.0	8.0	5.7	4.3	3.7	3.3	3.7	2.7	3.0	3.0	2.7
BAR LP 22263	8.3	8.3	9.0	8.7	7.3	7.3	6.0	5.3	4.3	4.0	3.7	3.7	3.7	3.7	3.0
PST-2HFM	8.0	8.3	9.0	8.3	7.7	7.3	4.7	4.3	3.0	3.3	3.0	2.7	3.3	3.3	3.0
DARK MATTER	8.0	8.7	9.0	8.7	7.7	7.0	4.7	4.0	3.0	3.3	2.7	3.0	3.0	3.0	2.7
20PR10	8.0	8.3	9.0	9.0	8.0	7.3	5.0	3.7	2.7	3.3	2.7	2.7	3.0	3.0	2.7
CJP1R	8.0	8.0	9.0	8.7	7.3	6.7	5.0	3.7	2.7	3.0	2.7	2.7	2.3	2.3	2.3
DLF-PR-3726	8.0	8.0	9.0	9.0	7.3	7.0	5.7	4.7	3.7	3.3	3.3	3.0	3.0	3.3	2.7
DLF-PR-3727	8.0	8.0	9.0	8.7	7.3	7.7	6.0	5.0	4.0	3.7	3.3	3.3	3.3	3.7	2.7
DLF-PR-3730	8.0	8.0	8.7	8.7	8.0	7.7	5.0	4.7	3.7	4.0	3.0	2.7	2.3	3.0	2.7
DLF-PR-3736	8.0	8.0	9.0	8.7	7.7	7.3	5.0	4.3	3.7	3.3	3.3	2.7	2.7	3.3	2.7
ELEKTRA GLR (PPG-PR 671)	8.0	8.0	9.0	8.7	7.0	7.0	5.0	4.7	4.0	3.3	2.7	2.7	2.3	2.7	2.7
GREENBACK	8.0	8.0	9.0	8.7	7.7	7.3	5.7	4.7	3.0	3.3	2.7	2.3	2.3	3.0	2.7
KARMA	7.7	8.0	9.0	8.7	7.7	7.7	5.0	4.3	3.3	3.3	3.3	2.7	3.3	2.7	2.7
PPG-PR 646	8.3	8.0	9.0	8.7	7.3	7.7	5.0	4.7	3.7	4.0	3.3	3.7	3.7	3.7	2.7
PPG-PR 664	8.0	8.0	9.0	8.7	7.7	7.3	5.7	4.0	3.0	3.0	2.7	2.7	2.7	3.3	2.7
PPG-PR 666	8.0	8.0	9.0	8.3	7.7	7.3	6.0	4.3	4.0	3.7	3.7	2.7	3.0	3.0	2.7
PST-2ADS	7.7	8.0	8.7	9.0	7.3	7.7	5.0	5.3	4.0	4.0	3.0	3.3	3.3	2.7	2.3
PST-2GDS	8.0	8.0	9.0	8.3	7.7	7.3	5.0	4.0	3.3	3.0	2.7	2.7	2.7	3.0	2.7
PST-2MES1	8.3	8.3	9.0	8.7	8.3	7.7	5.3	4.7	3.7	3.7	3.3	3.0	3.3	2.7	2.7
PPG-PR 637	8.3	8.0	9.0	9.0	7.3	7.3	4.7	4.3	3.7	3.7	3.3	3.0	3.3	3.3	2.7
PPG-PR 662	8.0	8.3	9.0	8.7	8.0	7.7	6.0	5.0	4.0	4.0	3.3	3.3	3.3	3.3	2.7
PPG-PR 667	8.0	7.7	9.0	9.0	8.0	8.0	6.0	5.3	4.3	4.0	4.0	3.7	3.7	3.0	2.7

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	QUALITY RATINGS DURING APPLIED SALT TREATMENT 3/														
	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	8.0	8.3	9.0	9.0	7.7	7.3	5.3	4.3	3.7	4.0	3.3	3.3	3.0	3.0	2.7
APS	7.7	8.0	9.0	9.0	7.7	6.7	5.3	4.3	3.0	3.0	2.3	2.7	2.7	2.7	2.3
GO-RUS20	8.0	7.7	8.7	8.7	6.7	6.3	4.3	4.3	3.7	3.3	3.0	3.0	3.0	3.0	2.7
MRS�-PR22	7.7	7.7	9.0	8.3	7.7	7.0	5.7	4.3	3.0	3.3	2.7	2.7	2.7	2.3	2.3
PPG-PR 602	8.0	8.0	9.0	8.7	7.7	6.7	5.7	4.0	3.7	3.3	2.7	2.3	2.3	2.3	2.7
PPG-PR 643	8.0	8.0	9.0	8.7	7.3	6.7	5.7	4.0	3.0	3.3	2.7	2.7	2.3	2.3	2.3
PST-2BGL	7.7	8.0	9.0	9.0	7.0	7.0	5.0	4.3	3.0	3.0	2.3	2.0	2.3	2.0	2.3
SUNDOWN (BY-PS2)	8.0	8.0	9.0	9.0	7.0	7.3	5.3	4.3	3.0	3.3	2.7	2.7	2.7	2.7	2.3
PST-2SPF	8.0	8.7	9.0	8.7	7.7	7.3	5.0	4.0	3.3	3.3	3.3	3.0	3.0	3.0	2.7
BAR LP 22174	8.0	8.0	8.7	8.7	7.0	7.0	4.7	4.3	3.3	3.7	3.0	2.7	3.0	2.7	2.3
DLF-PR-3738	7.7	8.0	8.7	8.7	7.3	7.7	5.3	4.3	3.3	3.0	2.3	3.0	2.7	2.7	2.3
HIGH OCTANE	8.0	8.3	8.7	9.0	7.0	7.0	5.0	3.3	2.7	2.7	2.3	2.7	2.3	2.7	2.3
PPG-PR 644	8.0	7.7	9.0	8.7	7.3	6.3	4.3	3.0	2.7	3.0	2.3	2.3	2.0	2.3	2.3
LTP-NR	8.0	8.0	8.7	9.0	7.0	7.0	4.7	3.3	3.3	3.3	3.0	2.7	2.7	2.7	2.3
PPG-PR 606	8.0	8.0	9.0	9.0	7.3	7.3	5.0	4.0	3.0	3.7	3.0	3.0	3.0	3.3	2.3
PPG-PR 642	8.0	8.3	9.0	8.7	7.7	7.0	5.0	3.7	3.3	3.3	3.0	2.7	2.7	3.0	2.3
PST-2EGY	8.0	8.0	9.0	9.0	7.7	7.3	5.3	4.0	3.3	3.3	2.7	2.3	2.7	2.7	2.3
PVF-SGS5	8.0	8.0	8.7	9.0	8.0	7.0	5.7	4.3	4.3	3.3	3.0	2.7	3.0	3.0	2.3
SILETZ	8.0	8.3	8.7	9.0	7.3	7.3	5.7	4.0	3.0	3.3	3.0	2.7	2.7	2.7	2.3
DLF-PR-3728	8.0	8.3	9.0	9.0	7.7	7.0	5.0	4.0	3.3	3.3	2.7	2.7	3.0	2.7	2.0
PISTON	8.0	8.0	9.0	9.0	7.3	7.0	5.7	4.3	3.0	3.3	2.7	2.7	2.7	2.7	2.0
QUASAR	8.0	7.7	8.7	9.0	8.0	7.0	5.3	4.3	4.0	3.7	3.0	3.3	3.0	3.3	2.3
STELLAR 4GL	8.0	8.0	9.0	8.7	7.3	6.7	4.3	4.0	3.7	3.3	2.7	2.7	2.7	2.7	2.3
HOMERUN LS	8.0	8.0	9.0	8.7	7.0	6.3	4.3	3.7	2.7	3.0	2.7	2.7	2.7	2.7	2.3
PVF-RFP2	8.0	8.0	9.0	9.0	7.7	7.3	5.0	4.3	3.3	3.3	3.0	2.7	2.7	2.7	2.3
RPP3	8.0	8.0	8.7	8.7	7.0	7.0	5.0	4.3	3.3	3.7	3.0	3.0	3.0	3.0	2.3
BSG-PR22	8.0	8.7	9.0	9.0	8.3	7.0	4.3	4.0	2.7	2.7	2.3	2.0	2.0	2.7	2.0
DLF-PR-3729	8.0	8.0	9.0	8.7	7.3	7.0	6.0	4.0	3.3	3.0	2.3	2.3	2.7	2.3	2.0
PROMINENT II (TSC-CRS)	8.0	8.3	8.7	9.0	7.7	7.3	5.0	3.7	2.7	2.3	1.7	2.0	2.7	2.7	2.0
SEPR-2013	8.0	8.0	9.0	9.0	8.0	7.3	5.7	4.7	3.3	3.0	2.3	2.0	2.7	2.3	2.0
PPG-PR 658	8.0	8.0	8.7	9.0	7.7	6.7	5.3	4.3	3.3	3.0	2.3	2.3	2.3	2.3	2.0
FLIGHTLINE (PST-214)	8.0	8.0	8.7	8.7	7.3	6.7	4.7	3.3	2.7	2.3	2.3	2.0	2.3	2.3	2.0
PST-2E6	8.0	8.0	9.0	9.0	7.0	7.3	4.3	3.3	2.3	2.7	2.3	2.0	2.7	2.7	2.0
RC20-020	8.0	7.7	9.0	8.7	7.3	7.3	5.7	3.3	2.7	2.3	2.3	2.3	2.3	2.3	2.0
LINN	7.7	8.0	8.3	8.7	7.0	5.7	4.0	3.3	2.7	3.0	2.7	2.7	2.7	2.7	1.7
PPG-PR 620	8.0	8.3	8.7	9.0	6.7	6.7	4.3	3.3	3.0	3.3	2.7	2.3	2.7	3.0	2.0
LSD VALUE	1.0	0.9	1.2	1.5	1.4	2.0	2.6	2.6	2.8	1.9	1.6	2.2	1.9	2.0	1.7
C.V. (%)	3.0	4.0	3.3	4.0	7.3	8.6	14.6	19.0	22.9	18.3	21.3	23.6	22.3	22.3	21.7

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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT OF QUALITY (SALT TREATMENT OVER CONTROL)														
	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	100.0	100.0	108.7	100.0	92.3	92.0	101.0	100.0	95.0	93.3	65.7	60.0	66.7	63.3	59.0
BAR LP 22256	104.3	104.3	108.7	108.7	100.7	100.3	95.3	87.7	72.3	60.0	53.0	42.0	50.0	53.3	55.7
GO-RUS22	100.0	104.3	108.7	104.3	92.0	92.0	90.7	116.7	97.3	89.0	74.3	61.0	57.7	52.3	53.3
GRAY EAGLE SLT (PST-2MEG)	100.0	100.0	104.3	100.0	92.7	92.0	96.7	85.7	71.0	64.3	52.3	53.0	61.0	54.7	53.3
PERFORMANCE (NAI-PR5)	104.3	100.0	100.0	96.3	88.7	92.0	91.3	73.3	72.7	63.3	56.7	46.7	52.3	50.0	53.3
PPG-PR 610	100.0	100.0	113.0	108.7	96.0	96.0	100.0	91.7	69.0	64.7	56.7	52.3	51.0	45.3	53.3
PPG-PR 639	100.0	100.0	104.3	105.0	105.7	96.0	103.7	110.0	86.7	76.7	73.3	69.3	64.3	52.3	53.3
PPG-PR 663	100.0	96.3	104.3	100.7	88.7	92.0	94.3	121.0	126.7	125.7	114.3	81.0	56.0	65.7	53.3
PPG-PR 668	100.0	108.7	113.0	100.0	88.3	88.0	88.7	83.7	72.3	70.0	65.7	53.3	53.3	43.7	52.3
SGP4	96.3	96.3	108.7	96.3	88.7	96.0	89.7	105.7	97.7	71.3	53.3	55.7	66.7	55.7	51.0
ALPHA CENTAURI	100.0	92.3	104.3	104.3	96.3	96.0	89.7	82.7	60.0	57.7	47.7	43.0	46.3	49.0	50.0
BRIGHTSTAR SLT	100.0	100.0	108.7	100.0	84.7	88.0	79.0	75.3	49.3	63.3	44.3	53.3	53.3	59.0	50.0
DLF-PR-3737	100.0	96.3	108.7	100.0	96.0	96.0	94.3	102.7	101.7	80.0	58.0	52.3	54.7	50.0	50.0
GO-RUS21	100.0	104.3	104.3	104.3	100.0	88.0	83.0	89.0	93.3	76.7	58.3	52.7	45.3	45.3	50.0
NEXUS DK (SE-DK)	96.3	100.0	105.0	108.7	103.7	87.3	94.3	108.3	91.0	83.3	73.3	66.7	69.0	51.0	50.0
PPG-PR 647	100.0	100.0	113.0	100.0	93.0	83.3	90.3	79.0	64.0	60.0	48.7	53.3	50.0	39.7	50.0
PPG-PR 670	100.7	100.0	104.3	108.7	88.3	87.7	75.3	86.0	75.3	58.3	50.0	46.7	53.3	52.3	50.0
RELIC (PPG-PR 611)	100.0	104.3	108.7	100.0	96.0	96.0	87.7	94.3	75.7	74.0	66.0	58.3	55.7	40.7	50.0
VORTEX SRT (PPG-PR 665)	100.0	100.0	108.7	100.0	96.0	96.0	83.0	81.0	68.0	63.3	51.0	47.7	53.3	55.7	50.0
BAR LP 22191	100.0	100.0	105.0	96.3	88.7	92.3	84.0	83.3	75.0	70.0	64.3	51.0	50.0	46.3	48.7
BAR LP 22262	100.0	100.0	100.7	100.7	104.7	96.0	94.3	111.0	93.3	75.7	66.7	65.7	55.7	62.3	47.7
DLF-PR-3735	101.0	100.7	108.7	104.3	92.3	88.0	80.0	83.3	226.7	61.0	56.7	47.7	44.3	48.7	47.7
LIGHTSPEED (PST-2DRG)	104.3	96.3	113.0	104.3	92.0	83.7	83.7	83.3	67.0	61.7	52.3	50.0	50.0	39.0	47.7
LTP-RPP4	100.0	100.0	104.3	108.7	100.7	92.0	95.3	86.7	55.7	53.3	44.3	44.3	42.0	43.0	47.7
PPG-PR 661	100.0	100.0	113.0	100.0	96.7	92.0	97.0	111.7	75.0	61.0	60.0	70.0	54.3	49.3	47.7
ULTRA SPORT (PST-2HAF20)	96.3	104.3	104.3	96.3	108.7	100.3	90.3	81.0	65.7	53.3	58.7	38.0	45.3	45.3	47.7
BAR LP 22263	104.3	104.3	104.3	100.0	88.7	92.0	102.0	94.3	86.0	78.0	74.3	65.7	65.7	61.3	46.7
PST-2HFM	100.0	104.3	104.3	92.7	100.0	92.0	82.3	72.3	52.3	62.3	53.3	44.3	55.7	46.3	46.7
DARK MATTER	100.0	108.7	104.3	100.0	92.3	92.0	68.7	68.0	57.7	72.7	47.7	63.3	53.3	47.7	45.3
20PR10	100.0	109.0	108.7	104.3	105.0	100.7	89.0	83.3	53.3	62.3	44.3	46.7	50.0	50.0	44.3
CJP1R	100.0	100.0	108.7	100.7	96.7	91.3	88.7	86.7	61.7	60.0	50.0	52.3	44.3	39.7	44.3
DLF-PR-3726	100.0	100.0	108.7	100.0	88.7	92.0	90.3	87.7	62.3	58.0	52.3	52.3	50.0	52.3	44.3
DLF-PR-3727	96.3	100.0	104.3	104.3	93.3	100.7	100.0	114.0	80.0	61.3	54.3	55.7	52.3	52.3	44.3
DLF-PR-3730	100.0	100.0	100.0	104.3	104.7	96.0	83.0	96.0	75.7	75.7	45.3	42.0	35.0	41.3	44.3
DLF-PR-3736	100.0	100.0	108.7	100.7	96.0	96.0	84.7	89.3	69.0	59.0	55.7	46.7	46.7	50.0	44.3
ELEKTRA GLR (PPG-PR 671)	96.3	101.0	104.3	96.3	84.7	92.0	79.3	89.0	73.7	62.3	42.0	46.7	38.7	39.7	44.3
GREENBACK	100.0	100.0	104.3	100.0	96.3	104.7	101.0	108.3	58.3	67.3	50.0	38.7	33.7	45.3	44.3
KARMA	96.0	104.7	113.0	96.3	96.0	100.0	88.7	95.0	84.3	73.3	73.3	53.3	60.0	42.0	44.3
PPG-PR 646	104.3	100.0	108.7	96.3	96.0	100.7	83.3	100.0	74.0	85.0	65.7	69.7	64.7	58.0	44.3
PPG-PR 664	100.0	100.0	104.3	100.7	89.0	96.0	89.7	75.7	50.0	50.0	41.7	47.3	43.0	51.7	44.3
PPG-PR 666	96.3	100.0	104.3	100.7	96.0	96.0	95.3	82.3	71.0	65.7	59.0	43.0	47.7	43.0	44.3
PST-2ADS	96.0	100.0	108.7	108.7	91.7	104.7	89.0	102.3	72.3	72.3	45.3	55.3	55.7	44.3	44.3
PST-2GDS	100.0	100.0	104.3	92.7	92.7	96.7	85.7	75.7	66.7	56.7	41.0	44.3	41.0	46.7	44.3
PST-2MES1	104.3	104.3	104.3	96.3	100.0	100.7	91.3	93.3	85.0	74.0	60.0	49.0	55.7	41.0	44.3
PPG-PR 637	104.3	100.0	108.7	108.7	85.0	96.7	73.7	83.3	69.3	69.7	53.3	53.3	55.7	50.0	44.3
PPG-PR 662	100.0	109.0	104.3	100.0	104.7	100.0	100.0	86.7	85.0	80.0	55.3	55.3	52.3	53.3	43.0
PPG-PR 667	100.0	92.7	104.3	100.0	92.3	100.0	94.3	92.3	70.0	75.3	66.3	61.0	57.7	44.0	43.0

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/															
	PERCENT OF QUALITY (SALT TREATMENT OVER CONTROL)															
	FEB 13 6_ds	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds	
PS4	100.0	106.0	104.3	104.3	89.0	96.0	89.7	79.0	70.0	63.3	50.0	51.3	50.0	45.3	43.0	
APS	96.0	100.0	113.0	104.3	100.7	91.7	94.3	81.0	54.3	61.0	45.7	47.3	45.3	44.3	42.0	
GO-RUS20	100.0	100.7	108.7	96.3	77.0	83.0	66.7	77.7	69.7	63.0	50.0	60.0	56.7	45.3	42.0	
MRSI-PR22	96.0	96.0	108.7	92.7	100.7	91.7	100.0	119.3	91.7	91.7	61.7	53.3	46.7	38.7	42.0	
PPG-PR 602	100.0	96.3	104.3	100.7	92.7	87.7	90.3	72.3	61.0	55.7	43.0	41.0	38.7	36.0	42.0	
PPG-PR 643	96.3	96.3	104.3	100.0	97.3	87.7	102.0	82.3	61.7	64.0	52.7	47.7	37.3	37.3	41.0	
PST-2BGL	96.0	96.3	108.7	100.0	88.0	96.0	94.3	81.0	53.3	56.7	37.3	33.0	37.3	31.7	41.0	
SUNDOWN (BY-PS2)	96.3	104.7	114.0	100.0	84.7	104.7	88.7	111.0	70.0	67.3	52.7	47.7	44.0	42.0	41.0	
PST-2SPF	100.0	105.0	113.0	100.7	92.3	92.0	94.3	80.0	70.0	62.3	60.0	50.0	44.3	40.0	39.7	
BAR LP 22174	100.0	100.0	100.7	100.0	96.0	96.0	77.7	86.7	64.0	72.3	53.0	47.7	46.7	38.3	38.7	
DLF-PR-3738	96.0	104.7	108.7	100.0	95.3	100.0	80.0	96.7	68.3	62.7	46.3	55.7	50.0	42.0	38.7	
HIGH OCTANE	100.0	104.3	108.7	108.7	100.0	96.0	83.3	71.7	52.3	50.0	41.0	47.7	38.7	43.0	38.7	
PPG-PR 644	96.3	96.0	104.3	96.3	96.0	87.0	75.7	61.7	44.3	60.0	38.7	41.0	35.3	35.0	38.7	
LTP-NR	100.0	104.7	105.0	100.0	88.7	96.0	82.0	71.7	76.7	73.3	53.3	47.7	44.3	43.0	38.7	
PPG-PR 606	100.0	100.0	104.3	104.3	92.3	92.0	80.0	83.3	57.7	65.7	48.7	45.3	44.3	52.3	38.7	
PPG-PR 642	100.0	104.3	108.7	104.3	96.0	91.3	88.7	78.3	84.3	59.0	50.0	42.0	40.7	43.0	38.7	
PST-2EGY	100.0	100.0	108.7	108.7	100.7	100.0	94.3	85.0	60.0	55.7	43.0	35.0	38.0	42.0	38.7	
PVF-SGS5	100.0	101.0	100.7	100.0	92.7	92.0	101.0	92.3	89.3	66.7	50.0	47.7	48.7	48.7	38.7	
SILETZ	100.0	104.3	108.7	108.7	88.7	92.0	94.3	77.7	58.3	55.7	46.7	44.3	42.0	40.7	38.7	
DLF-PR-3728	96.3	104.3	113.0	104.3	97.0	92.0	79.0	75.7	53.3	53.3	43.0	43.0	47.7	44.3	37.7	
PISTON	100.0	100.0	104.3	108.7	96.0	96.0	100.0	108.3	70.0	68.3	59.7	52.7	45.3	47.7	37.7	
QUASAR	100.0	100.7	104.3	104.3	104.7	92.0	88.7	101.7	82.3	74.0	54.3	61.0	54.3	46.0	37.3	
STELLAR 4GL	100.0	104.7	108.7	100.7	91.7	91.7	72.0	93.3	91.0	80.0	61.0	51.0	44.3	40.7	37.3	
HOMERUN LS	100.0	100.0	108.7	100.0	84.7	83.0	72.0	83.3	75.0	71.7	51.0	49.7	47.7	39.7	36.3	
PVF-RPP2	100.0	101.0	108.7	108.7	109.3	100.7	88.7	93.3	72.3	68.3	60.0	53.3	47.7	42.0	36.0	
RPP3	100.0	100.0	105.0	96.3	89.0	92.0	90.0	83.3	64.3	70.0	52.0	52.3	56.7	46.3	36.0	
BSG-PR22	100.0	108.7	104.3	104.3	96.3	87.7	72.3	83.3	50.0	54.3	39.7	35.3	30.3	42.0	35.3	
DLF-PR-3729	100.0	100.0	113.0	104.3	92.0	91.7	95.3	80.0	65.7	52.3	36.7	41.7	43.3	39.0	33.3	
PROMINENT II (TSC-CRS)	100.0	104.3	100.7	108.7	100.7	96.0	83.3	85.0	61.0	50.0	31.0	39.0	44.3	40.7	33.3	
SEPR-2013	100.0	100.0	108.7	100.0	96.0	92.0	101.0	87.7	63.3	52.0	36.7	29.7	40.7	39.0	33.3	
PPG-PR 658	100.0	100.0	104.3	104.3	100.7	91.7	95.3	93.3	62.3	56.7	38.7	41.0	37.3	32.3	33.0	
FLIGHTLINE (PST-214)	96.3	96.3	105.0	96.3	92.7	83.7	77.7	68.3	51.0	47.0	47.0	37.7	38.7	37.3	33.0	
PST-2E6	100.0	104.7	113.0	100.0	88.0	104.7	72.0	71.7	41.0	44.3	35.0	31.7	40.7	39.7	33.0	
RC20-020	96.3	96.0	104.3	100.7	92.7	101.0	97.0	72.3	50.0	41.0	36.3	41.0	37.3	35.0	33.0	
LINN	96.0	104.7	109.0	104.3	91.7	81.7	80.7	94.0	71.7	82.7	56.0	53.3	46.7	44.3	32.3	
PPG-PR 620	100.0	104.3	100.7	100.0	77.7	83.7	65.0	67.7	58.3	60.0	39.3	39.7	39.7	43.0	31.0	
LSD VALUE	22.1	32.4	37.9	16.8	26.7	43.9	73.6	97.2	184.5	63.3	55.9	40.2	32.6	37.1	37.8	
C.V. (%)	4.3	6.6	6.7	6.0	9.9	10.4	18.7	26.0	56.7	29.5	34.5	27.9	24.8	24.2	23.8	

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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 2.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	DENSITY RATINGS FOR THE CONTROL													
	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	7.3	7.3	8.0	7.0	7.0	6.0	5.7	5.3	5.3	5.0	5.0	5.3	6.0	5.5
BAR LP 22256	8.0	8.0	8.3	8.5	7.3	6.3	6.0	6.3	6.0	5.7	6.0	6.3	6.3	6.3
GO-RUS22	7.3	8.3	8.7	7.0	7.0	6.3	5.7	6.0	6.3	5.7	6.0	6.7	6.3	7.0
GRAY EAGLE SLT (PST-2MEG)	7.3	8.3	8.7	8.0	7.0	6.3	6.3	6.7	6.7	6.0	6.3	6.7	6.7	6.3
PERFORMANCE (NAI-PR5)	8.0	7.7	8.3	8.3	7.0	6.3	6.0	6.0	6.0	6.0	5.7	6.0	6.7	6.0
PPG-PR 610	8.0	8.0	8.3	7.7	7.0	6.3	5.3	6.0	6.0	6.3	6.0	6.3	6.0	7.0
PPG-PR 639	8.0	8.0	8.3	7.7	7.3	6.7	6.3	6.0	5.7	5.7	6.0	6.3	7.0	6.3
PPG-PR 663	7.7	8.3	9.0	8.3	7.7	6.0	6.0	5.0	5.7	5.3	5.3	5.7	5.7	5.0
PPG-PR 668	8.0	8.7	8.7	8.0	7.7	7.0	6.3	6.7	6.3	6.7	6.3	6.3	7.7	6.3
SGP4	8.0	8.3	8.7	8.7	7.0	6.0	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.5
ALPHA CENTAURI	8.0	8.3	8.3	7.7	7.0	6.3	6.3	6.7	6.0	6.3	6.3	6.0	6.7	5.7
BRIGHTSTAR SLT	7.0	7.7	8.3	7.7	7.0	6.3	6.3	6.3	6.3	6.0	6.0	6.3	6.3	6.0
DLF-PR-3737	7.7	8.3	8.0	7.7	7.3	6.0	6.3	6.3	6.3	5.7	6.0	6.0	5.7	6.0
GO-RUS21	8.0	8.7	8.0	7.7	7.0	6.3	6.0	5.7	5.7	5.7	5.7	6.0	5.3	5.7
NEXUS DK (SE-DK)	7.3	8.0	7.7	7.7	7.0	6.0	5.7	5.0	5.3	5.7	5.3	5.7	6.0	6.3
PPG-PR 647	7.7	8.0	7.7	8.0	7.0	6.0	5.3	6.0	6.0	6.0	6.0	6.0	6.3	5.5
PPG-PR 670	7.0	8.0	8.0	8.0	7.0	6.3	6.3	6.0	6.0	6.0	5.7	6.3	6.3	6.5
RELIC (PPG-PR 611)	8.3	8.7	9.0	7.5	7.3	6.0	6.0	5.0	5.3	5.7	5.3	5.3	6.7	6.0
VORTEX SRT (PPG-PR 665)	8.7	8.3	8.3	8.0	7.3	6.3	6.3	7.3	6.3	6.3	6.3	6.7	7.0	6.3
BAR LP 22191	7.3	8.3	8.0	7.7	7.0	6.3	5.7	5.7	5.7	5.7	5.7	5.7	6.3	5.7
BAR LP 22262	7.7	8.0	8.3	7.0	7.0	6.0	5.7	5.7	5.7	5.7	5.7	5.7	6.0	5.7
DLF-PR-3735	7.3	7.7	8.7	8.3	7.0	6.3	6.3	6.0	6.3	6.0	5.7	6.0	6.3	6.3
LIGHTSPEED (PST-2DRG)	8.0	8.0	8.3	8.0	7.0	6.0	5.7	6.7	6.0	5.7	5.7	6.3	6.3	6.0
LTP-RPP4	8.0	8.3	8.3	8.0	7.0	6.0	5.3	6.3	6.0	5.7	6.0	6.3	6.3	4.5
PPG-PR 661	7.7	8.7	8.7	8.3	7.0	6.3	6.0	6.3	6.0	6.0	6.0	7.0	7.3	7.0
ULTRA SPORT (PST-2HAF20)	8.3	9.0	8.0	8.0	7.3	6.3	6.0	6.0	6.3	6.0	6.7	6.7	6.7	5.7
BAR LP 22263	8.0	8.7	8.3	8.7	7.7	6.3	6.7	6.3	6.7	6.0	6.0	6.3	6.0	6.0
PST-2HFM	8.3	8.7	8.3	8.7	8.0	6.3	6.3	6.3	6.3	6.0	6.3	6.7	7.0	7.0
DARK MATTER	7.7	8.0	8.3	7.7	7.3	7.0	6.0	6.7	6.3	5.7	5.3	6.0	6.7	6.0
20PR10	7.3	8.0	8.3	7.7	7.0	6.0	6.0	5.7	5.3	5.3	5.7	6.3	6.0	5.7
CJP1R	7.3	7.7	8.0	7.7	7.0	6.0	6.0	5.7	5.3	5.7	5.3	5.0	5.7	5.0
DLF-PR-3726	7.7	8.3	8.3	7.3	7.0	6.0	6.3	6.3	6.0	5.3	6.0	6.3	6.3	5.7
DLF-PR-3727	8.0	8.0	7.7	7.7	7.3	6.0	6.0	6.3	6.0	5.7	6.0	6.0	6.3	6.7
DLF-PR-3730	8.0	8.3	8.3	8.3	7.7	6.7	6.3	6.0	6.0	6.7	6.3	6.7	6.7	6.3
DLF-PR-3736	8.3	8.3	8.7	8.3	7.3	6.7	6.0	6.7	6.3	6.0	6.3	6.7	6.7	7.0
ELEKTRA GLR (PPG-PR 671)	8.3	8.3	8.7	8.0	7.3	6.0	5.3	6.7	6.0	6.0	6.0	5.7	6.7	7.0
GREENBACK	8.0	8.3	8.7	8.0	7.0	6.0	6.0	6.0	5.7	6.3	6.3	6.3	6.7	5.7
KARMA	8.0	8.0	8.3	8.0	7.0	6.0	5.7	5.7	5.7	5.0	5.7	5.7	6.3	6.0
PPG-PR 646	7.7	8.0	8.3	7.7	7.0	6.0	6.0	6.3	6.0	5.7	6.0	6.3	6.3	6.0
PPG-PR 664	8.0	8.7	8.7	8.3	7.3	6.7	5.3	7.0	7.0	6.3	6.0	6.7	6.7	6.0
PPG-PR 666	8.0	8.7	8.7	7.7	7.7	6.7	6.0	6.3	6.0	6.7	6.0	6.7	6.7	6.0
PST-2ADS	8.0	8.0	8.7	7.5	7.0	6.0	6.3	6.3	6.0	6.3	6.0	6.3	5.7	5.3
PST-2GDS	7.7	8.0	8.0	8.3	7.0	6.7	6.0	6.0	6.0	6.3	6.0	6.7	6.0	6.0
PST-2MES1	8.0	8.7	8.3	8.0	7.0	6.3	6.3	6.3	6.0	6.3	6.3	6.7	6.7	6.7
PPG-PR 637	8.0	8.3	8.3	7.3	7.3	6.3	6.0	5.7	5.7	6.0	5.3	5.7	6.7	6.3
PPG-PR 662	7.7	8.0	8.3	7.3	7.0	6.0	5.7	5.7	5.7	5.7	6.0	6.0	6.7	6.3
PPG-PR 667	8.0	8.3	8.3	7.7	7.7	6.3	6.0	6.7	6.0	6.3	6.0	6.7	7.3	6.7

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

DENSITY RATINGS FOR THE CONTROL

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	8.0	8.0	9.0	7.5	7.3	6.3	6.3	6.0	6.0	5.7	6.0	6.3	6.7	5.3
APS	8.0	8.3	8.3	7.7	7.3	6.0	6.0	6.3	5.7	6.3	6.0	6.0	6.7	6.3
GO-RUS20	7.3	8.0	8.3	8.0	8.0	6.7	6.3	6.7	6.3	6.0	6.0	6.3	7.3	6.7
MRS�-PR22	7.7	8.0	8.0	7.0	7.0	6.0	5.3	4.0	4.3	4.3	4.7	4.5	5.0	4.7
PPG-PR 602	8.3	8.0	7.7	7.3	7.0	6.0	5.7	6.3	6.0	6.0	5.7	5.7	6.7	6.3
PPG-PR 643	8.0	8.0	8.3	8.3	7.7	6.0	6.0	6.0	5.7	5.7	6.0	6.0	6.3	5.7
PST-2BGL	8.0	8.7	8.7	8.3	7.0	6.0	6.0	6.3	6.0	6.0	6.0	6.3	7.0	6.0
SUNDOWN (BY-PS2)	7.7	8.7	8.0	8.0	7.0	6.0	5.3	5.7	6.0	5.7	5.3	6.0	6.0	5.5
PST-2SPF	8.0	8.0	8.7	8.0	7.0	6.0	5.3	5.7	5.7	5.7	5.7	6.3	8.0	8.0
BAR LP 22174	7.7	8.0	8.7	7.7	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7	6.0
DLF-PR-3738	8.3	8.3	8.3	7.7	7.0	6.3	5.7	6.0	6.0	5.7	5.7	6.3	6.3	6.0
HIGH OCTANE	7.7	8.3	8.3	8.0	7.3	6.3	6.0	6.3	6.0	6.0	6.0	6.3	7.0	6.3
PPG-PR 644	8.0	8.7	8.3	7.5	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.7
LTP-NR	7.7	8.0	8.3	8.0	7.0	6.0	5.7	5.7	5.7	5.3	5.7	5.3	6.0	5.7
PPG-PR 606	8.3	8.3	7.7	8.0	7.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.0	6.3
PPG-PR 642	8.0	8.0	8.3	8.5	7.3	6.0	5.7	6.0	6.3	6.0	6.0	6.3	7.0	6.0
PST-2EGY	7.3	7.7	8.0	8.0	7.0	6.0	6.0	6.3	6.3	6.3	6.3	6.7	6.3	6.3
PVF-SGS5	8.0	8.3	8.3	7.3	7.0	6.0	6.0	5.7	5.7	5.7	6.0	6.3	5.7	5.7
SILETZ	8.0	8.3	8.0	7.7	7.3	6.0	6.3	6.0	6.0	6.0	6.0	6.3	6.7	6.3
DLF-PR-3728	7.7	8.3	8.3	7.7	7.3	6.3	6.0	7.0	6.7	6.3	6.3	6.3	6.3	6.3
PISTON	7.7	8.0	8.3	8.0	7.0	6.0	6.3	5.7	5.7	5.3	5.7	6.0	6.0	6.0
QUASAR	7.7	7.7	8.3	7.7	7.3	6.0	6.0	6.0	6.0	5.7	5.7	6.0	7.0	6.7
STELLAR 4GL	8.0	8.0	8.0	7.7	7.0	6.0	6.3	5.7	5.7	5.3	6.0	6.3	7.0	6.3
HOMERUN LS	8.0	8.3	8.7	7.7	7.7	6.0	6.0	5.7	5.7	5.3	6.0	6.0	6.7	6.7
PVF-RPP2	7.7	7.7	8.3	7.3	7.0	6.0	6.0	5.7	5.3	5.3	5.0	5.3	6.7	7.0
RPP3	8.0	8.0	8.3	7.3	7.0	6.0	6.0	6.3	6.0	5.7	5.7	5.7	6.7	7.0
BSG-PR22	8.0	7.7	8.3	7.3	7.0	6.0	5.7	5.7	5.7	5.7	5.3	5.7	5.7	5.0
DLF-PR-3729	7.3	8.0	8.3	7.7	7.0	6.3	5.7	6.3	6.0	6.0	5.3	6.0	6.0	5.5
PROMINENT II (TSC-CRS)	7.3	7.3	8.0	7.3	7.0	6.0	6.0	5.3	5.7	6.0	6.0	5.7	6.7	5.7
SEPR-2013	7.3	8.0	8.7	8.0	7.3	6.0	6.0	6.3	6.0	6.0	6.0	6.7	6.0	5.0
PPG-PR 658	8.0	8.0	8.0	7.3	7.0	6.3	6.0	6.3	6.7	6.3	6.0	5.7	7.7	6.7
FLIGHTLINE (PST-214)	8.3	8.3	8.7	7.7	7.0	6.0	6.0	6.0	6.0	5.3	5.3	5.0	6.0	6.3
PST-2E6	7.3	8.3	8.3	8.3	7.0	6.0	6.0	7.3	6.3	7.0	6.3	6.7	6.7	5.7
RC20-020	8.0	8.3	8.3	7.7	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.7	5.7
LINN	7.7	8.0	7.3	7.5	7.0	6.0	5.0	5.0	5.3	5.0	4.3	5.0	5.3	4.7
PPG-PR 620	8.3	8.7	8.7	8.3	7.3	6.7	6.3	6.0	6.0	6.3	6.0	6.3	7.0	6.7
LSD VALUE	2.5	1.2	1.1	2.3	0.8	1.5	2.1	1.5	1.8	1.6	1.5	2.6	1.7	1.9
C.V. (%)	7.7	5.7	5.3	7.9	4.8	6.8	9.1	11.1	9.8	10.4	9.6	11.8	11.1	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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

DENSITY RATINGS FOR THE SALT TREATMENT

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	6.3	7.7	7.7	7.0	7.0	6.0	6.0	5.7	5.7	5.7	5.0	4.7	4.7	4.3
BAR LP 22256	8.3	8.7	8.3	8.0	7.0	6.0	5.7	5.3	5.3	5.7	4.7	4.7	4.7	4.0
GO-RUS22	8.0	8.3	8.3	7.7	8.0	6.3	6.3	6.7	5.7	5.7	5.3	5.0	5.0	5.0
GRAY EAGLE SLT (PST-2MEG)	8.0	8.0	8.3	7.7	7.0	6.0	6.7	6.0	5.3	4.7	4.7	4.7	5.3	5.0
PERFORMANCE (NAI-PR5)	8.0	8.3	8.7	7.7	7.0	6.0	6.3	6.0	5.3	4.7	5.3	5.0	5.0	5.3
PPG-PR 610	8.0	8.3	8.7	8.0	7.7	6.0	6.3	5.7	5.7	5.3	5.0	5.0	5.0	5.0
PPG-PR 639	8.0	8.3	8.7	8.3	7.3	6.0	6.3	6.0	5.7	5.7	4.7	5.0	5.0	4.3
PPG-PR 663	8.3	8.7	8.7	7.7	7.0	6.0	5.3	5.7	5.3	5.0	5.0	4.7	5.0	4.7
PPG-PR 668	8.3	8.3	9.0	8.3	7.3	6.0	6.3	5.7	5.7	5.7	5.3	5.0	5.3	5.3
SGP4	8.0	8.0	8.7	7.7	7.3	6.0	6.0	5.7	5.7	5.7	4.7	5.0	5.3	4.3
ALPHA CENTAURI	7.3	7.3	8.0	7.3	7.7	6.0	6.0	5.3	5.0	5.0	4.3	4.3	4.3	4.3
BRIGHTSTAR SLT	7.3	7.7	8.7	7.3	7.0	6.0	6.0	5.7	5.3	4.0	5.0	4.7	5.3	4.3
DLF-PR-3737	7.7	8.0	8.3	7.3	7.0	6.0	6.3	6.0	5.3	5.3	5.0	4.7	5.3	4.7
GO-RUS21	8.7	8.7	8.7	8.0	7.3	6.0	6.0	6.0	5.7	5.7	5.3	5.0	5.0	5.0
NEXUS DK (SE-DK)	7.0	7.7	8.0	7.0	7.0	6.0	5.7	5.3	5.3	5.0	4.7	4.7	4.3	4.3
PPG-PR 647	8.0	7.7	8.7	7.3	7.0	6.0	6.0	5.7	5.0	5.3	5.0	4.3	5.0	4.7
PPG-PR 670	7.7	8.3	8.3	7.7	7.0	6.0	5.7	5.3	5.0	4.3	4.3	4.3	4.3	4.3
RELIC (PPG-PR 611)	8.3	8.7	8.7	7.3	7.0	6.0	6.0	5.0	5.0	5.0	4.7	4.3	5.0	4.3
VORTEX SRT (PPG-PR 665)	8.3	8.7	8.0	7.7	7.0	6.0	6.0	6.0	5.3	5.7	5.0	5.0	5.3	5.0
BAR LP 22191	8.0	8.3	8.3	7.0	7.0	6.0	6.0	6.0	6.0	5.7	5.0	5.0	5.3	4.7
BAR LP 22262	7.3	7.0	8.0	7.0	6.7	5.7	5.7	5.3	5.0	5.0	4.7	4.3	5.0	4.0
DLF-PR-3735	8.0	8.3	8.0	7.7	7.0	6.0	5.7	5.3	5.3	5.0	5.0	5.0	5.0	4.3
LIGHTSPEED (PST-2DRG)	8.3	8.7	8.7	7.3	7.0	6.0	6.0	5.7	5.3	4.7	5.3	5.0	5.0	5.0
LTP-RPP4	8.0	8.3	8.7	7.7	7.3	6.0	6.0	5.7	5.3	5.3	5.0	4.7	5.0	4.7
PPG-PR 661	8.3	8.3	9.0	8.0	7.0	6.0	5.7	6.0	5.3	5.7	4.7	4.7	5.0	4.7
ULTRA SPORT (PST-2HAF20)	8.0	8.3	8.3	8.0	7.3	6.0	5.7	5.7	5.0	5.7	4.7	5.0	4.7	4.3
BAR LP 22263	8.0	8.0	8.7	7.3	7.0	6.0	6.3	5.7	5.3	5.0	5.0	4.7	5.0	4.3
PST-2HFM	8.0	8.0	8.7	7.7	7.3	6.0	6.3	5.3	5.3	4.7	5.0	4.7	5.0	4.3
DARK MATTER	7.7	7.7	8.7	7.3	7.0	6.0	6.0	5.7	5.3	5.0	4.7	4.7	5.0	4.7
20PR10	8.0	8.0	8.7	8.0	7.0	6.0	5.3	5.0	5.0	4.7	4.7	4.3	4.7	4.0
CJP1R	7.7	8.0	8.0	7.0	7.0	6.0	5.7	5.3	4.7	4.7	4.7	4.7	4.3	4.0
DLF-PR-3726	8.3	8.3	8.7	7.7	7.3	6.0	6.0	5.7	5.7	5.7	4.7	4.7	5.7	4.3
DLF-PR-3727	8.7	7.7	8.3	7.7	7.0	6.3	5.7	5.7	5.7	5.7	4.7	4.3	5.0	4.7
DLF-PR-3730	7.7	8.7	8.7	8.0	7.7	6.3	6.0	6.0	5.7	5.7	5.0	5.0	5.3	5.7
DLF-PR-3736	8.0	8.7	8.7	8.0	7.7	6.3	6.0	6.0	5.3	5.7	5.3	5.0	5.0	5.0
ELEKTRA GLR (PPG-PR 671)	8.0	8.3	8.7	8.0	7.0	6.0	6.3	6.0	5.7	5.0	4.7	4.7	5.0	5.0
GREENBACK	8.0	8.3	8.7	7.7	7.3	6.0	5.7	5.7	5.3	5.3	4.7	5.0	4.7	4.3
KARMA	8.0	8.3	8.7	7.7	7.3	6.0	6.0	5.7	5.0	5.7	5.0	5.0	5.0	4.7
PPG-PR 646	7.7	8.0	8.3	7.7	7.3	6.0	6.0	5.3	5.3	4.7	4.7	4.7	5.0	4.7
PPG-PR 664	8.0	8.3	8.7	8.0	7.3	6.0	6.0	6.0	5.3	5.7	5.3	5.0	5.3	5.0
PPG-PR 666	8.0	8.0	8.3	7.7	7.3	6.0	6.3	5.7	5.3	5.3	4.7	4.7	4.7	5.0
PST-2ADS	8.0	8.0	8.3	7.3	7.3	6.3	5.7	5.7	5.0	6.0	5.0	4.7	4.3	4.3
PST-2GDS	8.3	8.0	7.3	7.3	7.0	6.0	5.3	5.3	5.0	4.7	4.3	4.3	4.3	4.0
PST-2MES1	8.3	8.7	8.7	8.0	7.3	6.0	6.0	5.7	5.7	5.3	4.7	4.7	5.0	4.7
PPG-PR 637	8.0	8.0	8.7	7.3	7.0	6.0	6.3	6.0	5.7	5.3	5.3	5.0	5.0	4.7
PPG-PR 662	8.0	8.7	8.3	7.7	7.7	6.0	6.3	6.0	5.7	5.7	5.0	5.3	5.0	4.7
PPG-PR 667	8.3	8.3	8.7	7.7	7.3	6.3	7.0	6.3	6.0	5.7	5.3	5.3	5.3	4.3

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

DENSITY RATINGS FOR THE SALT TREATMENT

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	7.3	8.3	8.3	7.7	7.3	6.0	6.3	5.7	5.7	5.7	5.0	5.0	5.0	4.7
APS	8.0	8.3	8.7	7.7	7.0	6.0	6.3	6.0	5.3	4.0	5.0	4.7	4.7	5.3
GO-RUS20	8.3	8.0	8.3	7.3	7.0	6.0	5.7	6.0	5.3	4.7	5.7	5.0	5.0	4.7
MRS�-PR22	7.3	7.7	7.7	7.3	7.0	6.0	5.7	4.7	4.7	4.3	3.7	4.0	4.0	4.0
PPG-PR 602	8.0	8.0	8.3	7.3	7.0	6.0	6.3	5.3	5.0	5.0	5.0	4.7	4.3	4.7
PPG-PR 643	8.0	8.0	8.3	7.7	7.3	6.0	6.3	5.7	5.3	5.0	5.0	4.3	5.3	4.7
PST-2BGL	7.7	8.7	8.7	8.0	7.7	6.0	6.0	6.0	5.3	5.0	4.7	5.0	5.0	4.3
SUNDOWN (BY-PS2)	8.0	8.0	9.0	7.7	7.7	6.0	6.0	5.7	5.3	5.3	5.0	4.7	5.3	4.0
PST-2SPF	8.0	8.0	8.7	7.3	7.7	6.0	6.0	5.7	5.3	5.7	5.0	4.7	5.0	4.7
BAR LP 22174	8.0	8.3	9.0	7.7	7.0	6.0	5.7	5.7	5.0	5.0	4.7	4.3	4.7	4.3
DLF-PR-3738	7.3	7.7	8.3	8.0	7.3	6.0	6.0	5.7	5.3	5.3	5.0	4.3	5.0	4.3
HIGH OCTANE	7.7	8.0	8.3	7.3	7.0	6.0	5.7	5.3	5.3	5.0	4.3	4.3	4.0	4.3
PPG-PR 644	8.0	8.3	8.3	7.3	7.0	6.0	6.3	5.7	5.3	5.0	5.3	5.0	5.0	5.0
LTP-NR	7.7	8.3	8.3	7.7	7.3	6.0	5.7	5.3	4.7	4.7	4.3	4.7	4.7	4.0
PPG-PR 606	8.3	8.0	8.7	7.7	7.3	6.0	6.0	5.3	5.3	5.0	4.7	4.7	4.7	4.0
PPG-PR 642	8.0	8.3	9.0	7.3	7.0	6.0	6.0	5.7	5.0	5.3	4.3	4.3	5.0	4.3
PST-2EGY	8.0	8.0	8.7	8.0	7.3	6.0	6.0	5.7	5.7	5.7	5.0	4.7	5.3	4.7
PVF-SGS5	8.3	8.0	8.7	8.3	7.3	6.0	6.0	6.0	5.3	5.0	5.0	5.0	4.7	5.0
SILETZ	8.0	8.7	8.7	7.7	7.3	6.0	5.7	5.7	5.7	5.3	5.0	5.0	5.0	4.7
DLF-PR-3728	7.7	8.7	8.7	7.7	7.0	6.0	5.7	6.0	5.3	4.0	4.3	5.0	5.3	5.0
PISTON	7.7	7.7	8.3	8.0	7.0	6.0	6.0	5.7	5.0	4.7	5.0	4.3	5.3	4.7
QUASAR	7.3	7.7	8.7	7.3	7.3	6.0	6.3	5.7	5.3	4.3	4.3	4.0	4.3	4.7
STELLAR 4GL	8.0	8.0	9.0	7.7	7.3	6.0	6.3	6.0	6.0	5.7	5.3	5.0	5.7	5.7
HOMERUN LS	8.0	8.3	8.3	7.3	7.0	6.0	5.3	5.7	5.3	4.7	4.3	4.7	4.3	4.3
PVF-RPP2	7.7	7.7	8.0	7.7	7.0	6.0	5.3	5.3	5.0	5.0	5.0	4.3	5.0	4.7
RPP3	8.0	7.7	8.7	7.7	7.3	6.0	5.7	5.7	5.7	5.7	5.0	5.0	5.3	5.0
BSG-PR22	8.0	8.0	8.0	7.7	7.0	5.7	5.7	5.0	5.0	4.7	4.3	4.3	4.3	4.0
DLF-PR-3729	7.7	8.0	8.3	7.0	7.3	6.0	5.7	5.7	5.0	5.0	4.7	4.7	4.7	4.3
PROMINENT II (TSC-CRS)	7.7	8.0	7.7	7.3	7.0	6.0	5.3	4.7	4.7	4.3	4.0	4.0	4.0	3.3
SEPR-2013	7.7	8.3	8.7	7.7	7.3	6.3	6.0	5.7	5.0	5.7	5.3	5.0	5.3	4.7
PPG-PR 658	8.3	8.7	8.7	8.0	7.3	6.0	6.3	6.0	5.3	4.0	5.0	5.0	5.3	4.3
FLIGHTLINE (PST-214)	8.0	8.0	8.7	7.3	7.3	6.0	5.7	5.7	5.7	4.0	5.0	5.0	5.0	5.0
PST-2E6	8.0	8.0	8.3	7.7	7.0	5.7	5.7	5.0	4.7	4.3	4.3	4.3	4.3	4.0
RC20-020	8.3	8.7	8.3	8.0	7.3	6.0	6.3	6.0	5.0	5.0	4.7	4.3	4.7	4.3
LINN	7.3	7.3	8.0	6.7	6.7	6.0	5.7	5.3	4.7	4.7	3.7	4.0	4.0	4.0
PPG-PR 620	8.3	8.0	8.3	7.0	7.3	5.7	5.7	4.7	4.7	4.3	4.0	4.0	4.0	3.5
LSD VALUE	1.0	1.8	1.4	1.2	1.7	0.8	1.8	1.2	2.2	2.1	1.3	1.3	1.4	2.0
C.V. (%)	6.0	7.0	5.7	6.3	5.9	3.4	8.9	8.8	10.4	14.9	11.1	10.0	11.6	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/ ENTRIES WERE FIRST ESTABLISHED IN THE GREENHOUSE FOR A PERIOD OF 60 DAYS, THEN MAINTAINED AT THE
LOWEST SALINITY LEVEL (6 ds/m) FOR A PERIOD OF 1 MONTH FOR DATA COLLECTION. SALINITY WAS THEN INCREASED TO
10 ds/m FOR A MONTH AND DATA COLLECTED AS BEFORE. THIS PROCESS WAS CONTINUED, INCREASING THE SALINITY LEVEL
EACH MONTH TO 14, 18 AND THEN 22 ds/m. CONTROL POTS WERE ALSO EVALUATED FOR EACH SALINITY LEVEL SUCH THAT A
PERCENT OF CONTROL RESPONSE COULD BE CALCULATED FOR SOME RATINGS.

TABLE 2.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	PERCENT LEAF FIRING-CONTROL													
	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	0.3	0.7	0.7	1.3	3.7	12.3	30.7	23.7	12.7	12.3	8.3	9.7	8.0	10.0
BAR LP 22256	0.7	0.7	0.7	1.3	4.7	15.3	26.7	17.3	10.7	5.7	6.0	8.0	7.7	12.7
GO-RUS22	1.3	0.7	1.3	2.7	5.7	14.0	30.3	27.7	18.0	18.3	13.3	21.3	9.3	10.3
GRAY EAGLE SLT (PST-2MEG)	0.0	0.7	0.7	1.7	4.3	11.3	17.7	13.3	6.7	3.3	5.3	7.0	4.3	10.3
PERFORMANCE (NAI-PR5)	0.7	1.0	0.0	2.3	5.3	12.3	21.7	17.0	11.3	7.3	8.0	10.0	5.0	11.0
PPG-PR 610	0.7	0.7	1.3	2.3	4.3	12.7	31.3	17.3	10.0	6.0	5.7	7.0	4.3	11.0
PPG-PR 639	1.3	1.7	1.3	2.7	5.3	15.7	33.7	25.0	17.3	15.3	13.0	12.3	5.0	7.3
PPG-PR 663	0.7	0.0	1.3	1.3	3.3	14.0	31.0	41.0	38.0	32.7	35.3	27.0	19.0	12.3
PPG-PR 668	0.7	0.0	0.0	2.3	4.0	12.0	16.7	14.3	12.7	9.3	10.3	15.3	8.0	11.3
SGP4	1.0	0.7	0.0	1.7	5.0	12.7	27.0	22.3	10.3	5.3	4.7	7.3	4.3	10.3
ALPHA CENTAURI	0.3	0.0	0.0	1.3	3.3	11.0	16.0	12.7	7.3	4.3	4.3	5.3	6.3	12.7
BRIGHTSTAR SLT	0.7	0.0	1.3	2.0	4.3	13.0	19.0	13.0	8.3	7.7	8.0	9.3	5.3	10.3
DLF-PR-3737	0.3	1.0	1.3	2.0	4.3	13.7	20.3	16.0	10.3	10.0	8.3	32.0	5.0	9.0
GO-RUS21	0.0	0.7	0.0	2.3	4.0	12.3	32.3	32.0	25.7	22.7	12.7	13.0	5.3	10.7
NEXUS DK (SE-DK)	0.7	0.7	1.3	2.7	4.7	15.0	38.7	32.7	23.3	23.7	16.7	15.7	5.7	11.3
PPG-PR 647	1.0	0.7	0.7	2.0	4.7	13.7	29.0	16.0	10.0	6.0	9.3	10.7	4.7	9.3
PPG-PR 670	0.7	0.7	0.0	1.7	3.0	7.3	20.7	16.7	16.0	15.7	10.7	12.0	6.7	11.7
RELIC (PPG-PR 611)	0.7	0.7	0.0	2.7	4.7	15.0	30.0	29.0	21.7	19.3	10.0	11.3	5.0	7.3
VORTEX SRT (PPG-PR 665)	0.0	0.0	0.0	2.0	4.0	9.7	39.0	13.3	8.7	4.0	6.0	9.3	6.0	12.0
BAR LP 22191	1.0	0.0	4.0	2.0	4.3	9.0	22.0	26.0	23.7	17.0	10.7	8.0	7.3	11.0
BAR LP 22262	1.3	2.0	1.3	2.3	5.0	16.0	39.3	19.7	12.0	10.3	9.0	9.3	6.7	12.7
DLF-PR-3735	0.3	0.0	0.0	1.3	3.3	11.3	21.3	18.3	9.7	10.3	9.7	9.7	6.7	8.7
LIGHTSPEED (PST-2DRG)	0.0	0.7	0.0	2.3	4.7	13.0	21.0	18.7	9.3	6.0	9.3	9.0	7.0	12.3
LTP-RPP4	0.0	0.0	0.0	2.0	4.3	15.3	15.0	14.3	7.7	6.0	6.0	7.7	4.3	13.3
PPG-PR 661	1.0	0.7	0.7	2.7	5.0	17.3	26.3	22.3	15.0	15.0	10.7	14.7	8.7	7.7
ULTRA SPORT (PST-2HAF20)	0.3	0.0	0.7	1.7	3.7	12.7	20.0	13.3	6.7	4.3	4.3	8.0	5.7	11.0
BAR LP 22263	0.3	0.7	1.3	1.7	3.7	11.3	18.0	16.0	12.3	10.7	10.3	15.3	9.3	10.7
PST-2HFM	0.7	0.7	0.7	2.7	4.3	12.3	24.0	15.7	10.0	8.3	7.3	10.7	4.3	8.3
DARK MATTER	0.7	0.0	1.0	1.0	5.3	11.7	16.0	19.3	13.7	12.7	9.0	12.0	17.0	11.3
20PR10	1.0	1.7	1.3	2.7	5.7	18.0	30.0	16.7	12.7	7.7	6.3	8.7	7.3	9.3
CJPIR	0.7	1.0	0.7	2.3	4.3	18.0	32.7	26.0	16.3	19.0	13.3	12.3	9.0	13.3
DLF-PR-3726	0.7	0.0	0.7	2.3	4.0	11.7	23.7	13.3	9.0	6.7	7.7	8.0	6.7	9.0
DLF-PR-3727	0.0	0.0	0.0	1.7	3.7	12.0	19.7	23.0	10.7	7.0	7.0	8.7	6.0	7.3
DLF-PR-3730	1.0	0.7	1.3	2.7	3.3	11.0	21.0	21.7	11.0	5.3	4.3	6.7	3.3	8.3
DLF-PR-3736	0.7	0.0	0.7	1.7	5.0	14.3	29.7	23.0	16.3	15.0	11.7	14.3	7.0	9.3
ELEKTRA GLR (PPG-PR 671)	0.3	1.7	0.7	2.0	4.3	14.0	50.7	30.7	12.7	10.3	10.0	10.7	6.0	9.0
GREENBACK	0.3	0.7	0.7	2.0	4.7	14.0	30.3	24.0	16.3	7.0	7.3	6.0	5.3	11.7
KARMA	1.0	0.7	1.3	2.3	5.0	16.3	34.3	25.3	20.7	21.3	17.7	18.7	8.3	8.3
PPG-PR 646	1.0	0.0	1.0	3.0	4.7	13.7	32.3	25.3	17.7	13.0	12.3	12.7	9.7	10.0
PPG-PR 664	0.3	0.0	0.0	0.0	4.3	11.3	17.3	11.0	7.0	6.0	6.3	9.0	5.0	10.7
PPG-PR 666	0.7	0.7	0.7	2.0	4.3	13.0	20.0	15.7	10.0	5.3	5.3	7.0	4.7	9.7
PST-2ADS	1.0	1.7	1.3	2.3	6.0	15.7	24.0	14.0	7.7	5.3	5.0	6.7	8.7	17.7
PST-2GDS	1.0	1.0	0.7	2.3	4.3	11.0	21.3	15.0	9.7	6.0	5.7	7.3	4.3	12.0
PST-2MES1	0.3	0.0	0.0	1.7	4.3	11.0	22.7	19.7	15.0	10.7	8.7	9.0	7.3	9.3
PPG-PR 637	0.7	0.0	0.7	1.3	4.3	15.3	19.7	19.0	11.3	11.0	7.7	11.0	4.7	7.7
PPG-PR 662	0.7	1.0	0.0	2.7	4.0	13.0	24.7	19.7	14.0	6.3	6.7	8.7	4.7	6.3
PPG-PR 667	0.0	0.0	0.0	0.7	4.0	10.0	13.0	13.7	7.3	6.3	7.7	7.3	4.7	8.3

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

PERCENT LEAF FIRING-CONTROL 3/

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	0.7	0.7	0.0	1.3	5.0	12.3	16.7	12.7	8.3	4.0	5.3	8.7	4.0	7.7
APS	1.0	0.7	1.3	3.0	4.7	13.7	22.7	19.7	13.0	12.3	7.7	11.3	7.7	9.0
GO-RUS20	1.0	1.0	0.7	1.7	3.3	8.3	18.0	18.3	11.3	9.7	9.3	11.7	7.3	9.0
MRS-L-PR22	1.0	0.7	0.7	2.7	6.0	21.7	59.3	54.7	46.3	37.0	24.0	20.7	8.0	9.7
PPG-PR 602	0.3	0.7	0.7	1.7	4.0	9.3	11.7	14.7	9.3	6.0	7.0	8.7	6.7	7.3
PPG-PR 643	0.3	0.0	0.7	1.7	3.7	15.3	23.7	18.7	13.7	11.7	8.3	10.3	6.3	9.7
PST-2BGL	0.7	0.0	0.7	2.7	4.7	13.7	21.0	16.0	10.0	8.7	6.7	7.3	6.0	11.7
SUNDOWN (BY-PS2)	0.7	0.7	0.7	2.0	4.7	16.0	41.3	30.0	17.0	13.7	11.3	16.0	7.0	10.7
PST-2SPF	0.3	0.0	1.3	2.3	5.0	15.0	31.0	17.7	12.3	7.3	6.7	7.3	2.7	5.3
BAR LP 22174	0.3	0.7	2.7	1.7	4.0	15.3	23.3	17.7	13.3	8.3	7.0	8.3	4.7	8.7
DLF-PR-3738	1.3	0.7	1.0	1.3	4.7	13.0	23.0	28.3	19.0	18.3	18.7	18.3	10.0	9.7
HIGH OCTANE	0.7	0.0	0.7	2.7	5.3	13.0	25.3	19.3	14.3	8.0	7.3	8.0	4.7	30.0
PPG-PR 644	0.7	0.0	0.7	2.0	5.3	13.0	22.7	14.7	11.3	9.7	7.7	10.7	5.7	7.7
LTP-NR	1.0	1.3	0.7	2.7	6.3	19.0	38.3	27.7	16.3	14.3	15.7	13.0	7.0	10.0
PPG-PR 606	0.7	0.0	0.7	2.7	4.3	13.3	30.7	16.3	10.0	6.0	5.0	7.3	6.7	11.0
PPG-PR 642	0.3	0.7	0.7	2.3	4.3	13.0	29.0	15.7	9.7	7.3	6.3	8.7	4.7	10.0
PST-2EGY	1.3	1.3	0.7	2.7	5.7	12.0	27.3	14.3	7.3	5.0	4.7	6.7	5.0	14.0
PVF-SGS5	1.0	1.7	0.7	1.7	5.3	14.7	25.3	24.7	17.0	9.0	5.3	7.7	7.0	9.0
SILETZ	0.7	0.7	0.7	2.3	3.7	10.7	29.0	17.7	7.7	3.7	5.7	6.3	4.7	10.7
DLF-PR-3728	0.7	0.7	0.7	1.7	3.0	11.0	19.7	11.0	7.3	5.0	5.7	8.7	8.7	15.0
PISTON	1.0	0.7	0.7	2.7	5.7	15.0	42.0	32.0	28.0	20.3	14.0	18.0	15.7	14.3
QUASAR	0.7	1.3	0.0	2.7	4.0	12.7	27.7	20.3	11.7	10.0	11.0	13.7	4.7	6.0
STELLAR 4GL	1.0	1.7	3.3	2.7	5.7	17.3	43.3	32.7	24.3	19.7	10.0	8.3	4.0	8.7
HOMERUN LS	0.3	0.0	0.0	2.3	4.7	20.0	42.0	36.3	17.3	10.7	8.3	12.3	6.3	8.3
PVF-RPP2	1.0	1.7	1.3	3.0	5.3	19.7	27.0	23.7	17.0	19.7	20.0	21.0	8.7	6.0
RPP3	0.0	1.7	0.0	2.0	4.7	11.3	19.3	17.3	14.0	8.7	10.3	11.7	5.3	7.3
BSG-PR22	0.3	0.7	0.7	1.0	4.0	9.7	29.3	26.7	17.3	8.7	5.7	6.3	6.7	11.0
DLF-PR-3729	1.0	0.7	0.7	1.7	4.0	14.3	24.3	22.7	16.3	16.3	15.7	16.3	13.0	11.3
PROMINENT II (TSC-CRS)	0.7	1.0	3.3	2.0	5.3	16.7	28.7	27.0	14.0	7.0	7.3	7.3	4.7	11.0
SEPR-2013	1.0	0.7	0.0	1.3	4.0	14.3	21.3	13.3	7.0	6.7	5.0	8.0	7.0	12.0
PPG-PR 658	1.0	1.3	0.7	2.7	4.3	12.0	22.0	14.7	10.0	5.3	6.7	6.3	3.7	8.0
FLIGHTLINE (PST-214)	0.3	0.7	0.7	3.0	4.3	13.0	22.7	21.0	14.3	13.7	12.7	10.3	6.3	6.7
PST-2E6	0.7	0.7	1.3	2.3	5.0	13.3	20.0	14.3	8.7	5.7	4.7	8.0	7.0	13.0
RC20-02O	0.3	1.0	0.7	2.3	5.0	15.3	22.7	15.3	11.3	5.3	7.0	7.7	5.0	10.0
LINN	1.3	0.7	1.3	2.7	13.0	21.0	56.3	34.7	29.3	23.0	15.3	13.3	7.3	14.7
PPG-PR 620	0.0	0.0	0.0	0.0	4.7	9.0	19.0	13.7	9.0	5.3	5.3	7.7	5.0	6.3
LSD VALUE	2.6	3.9	5.3	2.8	8.8	14.1	33.6	34.7	37.7	34.3	28.2	23.5	16.3	16.2
C.V. (%)	97.5	147.7	167.5	45.7	44.7	32.0	48.4	55.4	78.3	95.6	85.5	67.5	67.6	47.9

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/ PERCENT LEAF FIRING RATINGS: 0 INDICATES NO LEAF FIRING

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

PERCENT LEAF FIRING - FOR SALT TREATMENT

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
DLF-LGT-3066	0.3	0.7	0.7	3.0	5.3	14.7	26.7	34.7	43.0	66.7	58.3	62.7	56.3	80.0
BAR LP 22256	0.7	0.7	0.0	2.0	4.0	12.0	27.7	44.3	56.0	76.7	81.3	83.0	69.0	85.3
GO-RUS22	0.7	0.7	0.0	3.0	6.0	12.0	25.0	32.3	51.0	58.0	72.7	83.7	71.7	88.0
GRAY EAGLE SLT (PST-2MEG)	0.7	0.7	0.7	3.3	5.7	20.7	39.7	45.3	55.3	59.3	69.7	73.7	79.3	75.7
PERFORMANCE (NAI-PR5)	0.7	1.0	1.7	3.7	5.7	21.7	43.7	54.0	73.0	83.7	77.0	84.0	78.0	83.7
PPG-PR 610	0.3	0.0	0.7	3.7	5.3	22.3	30.3	48.0	61.3	69.0	73.3	66.0	80.3	81.3
PPG-PR 639	0.7	0.7	0.0	2.3	5.0	22.0	35.0	40.7	82.7	59.7	68.3	70.3	72.0	89.0
PPG-PR 663	0.3	1.0	0.7	2.7	5.3	16.7	25.3	34.3	57.3	59.7	65.7	67.0	68.0	86.0
PPG-PR 668	0.7	0.7	0.0	3.3	4.3	14.0	33.3	45.0	62.7	71.3	83.0	84.7	80.7	85.3
SGP4	1.3	0.0	0.7	2.7	5.3	13.3	19.7	30.3	52.7	66.0	58.7	69.7	79.3	87.3
ALPHA CENTAURI	1.3	1.7	1.7	2.3	4.7	12.7	29.0	40.0	63.0	65.0	69.7	86.0	69.3	87.3
BRIGHTSTAR SLT	1.3	0.7	0.7	3.7	5.7	16.0	35.3	39.0	58.7	72.7	73.3	76.3	75.0	86.0
DLF-PR-3737	1.0	0.7	0.0	4.0	4.7	14.3	26.3	42.3	61.7	82.3	82.0	76.0	65.7	87.7
GO-RUS21	0.7	1.0	0.7	3.3	5.0	19.0	31.7	52.0	72.7	85.0	83.7	85.3	83.3	90.0
NEXUS DK (SE-DK)	0.7	0.7	2.0	3.0	6.0	18.0	33.3	44.7	49.3	70.3	72.3	66.0	79.0	90.0
PPG-PR 647	1.0	1.0	1.3	3.0	6.3	15.0	37.0	42.7	64.3	80.7	84.3	81.3	78.7	91.7
PPG-PR 670	1.0	0.7	0.7	3.7	6.0	22.7	40.0	55.0	66.7	71.3	78.3	76.7	80.7	88.0
RELIC (PPG-PR 611)	0.7	0.0	1.0	3.3	4.3	18.3	33.7	37.0	67.7	80.3	73.7	83.3	84.7	89.7
VORTEX SRT (PPG-PR 665)	1.0	0.0	0.7	3.0	4.0	15.0	33.0	39.7	57.0	63.0	68.0	72.3	80.7	91.5
BAR LP 22191	1.3	1.0	0.7	3.7	5.0	18.3	40.7	50.0	70.7	72.3	86.3	84.7	74.0	87.0
BAR LP 22262	1.3	0.7	2.0	3.0	5.3	20.7	31.3	39.0	57.3	62.0	71.3	59.3	66.7	79.3
DLF-PR-3735	1.0	0.0	0.0	2.3	5.3	22.3	32.0	44.7	62.3	68.7	78.7	77.3	82.3	90.3
LIGHTSPEED (PST-2DRG)	1.0	0.0	2.3	4.0	7.0	28.7	31.3	41.0	66.0	68.0	71.3	87.0	85.7	91.3
LTP-RPP4	0.7	1.0	0.0	2.3	5.7	19.0	35.0	54.3	83.3	87.7	89.3	88.7	85.0	91.3
PPG-PR 661	0.7	0.0	0.0	2.7	5.0	13.0	36.7	52.3	64.7	66.3	68.7	72.0	68.7	82.7
ULTRA SPORT (PST-2HAF20)	1.0	1.0	1.3	1.7	3.3	13.3	29.0	47.0	61.0	79.0	83.3	81.7	84.0	90.3
BAR LP 22263	1.0	1.7	1.7	2.7	5.7	15.0	26.3	33.0	52.0	56.0	71.3	63.3	76.7	80.3
PST-2HFM	0.7	0.0	0.7	3.0	5.7	35.7	48.0	54.3	62.0	69.3	75.7	85.3	82.7	86.0
DARK MATTER	0.3	1.0	1.3	3.3	5.0	24.0	42.7	62.7	65.0	84.0	77.0	77.3	80.0	91.3
20PR10	0.7	0.7	0.7	2.7	5.0	28.3	55.0	56.0	73.3	75.3	83.0	84.0	81.0	89.0
CJP1R	0.7	1.0	3.0	3.3	8.3	24.7	56.3	55.7	71.0	85.7	84.7	88.0	92.0	94.3
DLF-PR-3726	1.0	1.0	0.7	3.0	5.7	14.3	34.3	52.7	64.3	66.0	68.7	70.3	85.0	92.5
DLF-PR-3727	1.0	0.7	2.0	3.3	5.7	11.3	29.7	36.0	71.0	55.3	56.7	65.7	67.0	89.3
DLF-PR-3730	1.3	0.0	1.3	2.7	5.0	12.0	32.0	36.7	66.7	87.3	87.3	88.3	86.7	90.5
DLF-PR-3736	0.7	0.7	0.0	3.0	5.7	14.7	43.3	52.7	57.3	64.7	86.3	77.3	76.7	85.3
ELEKTRA GLR (PPG-PR 671)	1.0	1.0	1.7	4.0	6.0	24.7	30.7	40.0	65.0	82.7	85.7	88.7	83.0	91.3
GREENBACK	1.0	0.0	2.3	2.7	6.3	17.7	37.3	64.0	78.3	88.0	89.7	80.3	86.7	91.3
KARMA	0.3	0.7	0.7	2.3	4.7	16.0	39.7	52.0	72.0	81.3	80.3	77.3	84.7	90.0
PPG-PR 646	0.7	0.0	1.3	4.3	5.0	24.7	33.7	47.3	58.3	64.7	68.3	63.0	80.3	83.7
PPG-PR 664	0.7	0.0	2.3	3.3	3.7	22.0	46.0	66.7	71.7	76.3	78.7	80.3	77.0	83.0
PPG-PR 666	0.3	1.0	0.7	3.7	6.0	15.7	37.3	41.0	55.7	67.3	78.3	73.3	80.0	89.3
PST-2ADS	0.7	0.7	1.7	2.3	6.0	18.0	41.0	49.7	67.7	68.3	69.3	74.0	87.0	94.7
PST-2GDS	0.7	0.0	2.3	3.0	7.7	21.3	39.7	55.3	70.7	72.0	73.0	87.0	74.3	98.0
PST-2MES1	0.3	0.7	0.7	2.3	5.0	16.0	32.3	44.7	61.7	65.3	69.7	65.7	84.7	92.3
PPG-PR 637	0.3	0.0	0.7	3.3	4.3	17.0	30.3	40.0	61.0	84.0	82.0	81.3	70.7	84.7
PPG-PR 662	0.7	0.7	0.0	2.0	4.0	9.7	25.0	40.0	54.0	65.0	65.0	72.3	72.7	84.3
PPG-PR 667	1.0	1.0	0.7	2.7	4.7	11.3	29.3	42.0	53.0	44.3	53.3	57.3	63.0	84.7

TABLE 2.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

PERCENT LEAF FIRING - FOR SALT TREATMENT 3/

NAME	FEB 17 6_ds	FEB 24 6_ds	MAR 6 6_ds	MAR 15 10_ds	MAR 20 10_ds	MAR 29 10_ds	APR 5 14_ds	APR 14 14_ds	APR 21 14_ds	APR 28 18_ds	MAY 5 18_ds	MAY 10 18_ds	MAY 22 22_ds	JUN 2 22_ds
PS4	0.3	0.0	0.0	3.7	5.0	16.7	35.7	45.7	59.0	66.3	70.0	74.0	78.7	93.7
APS	0.7	0.7	1.0	3.3	6.7	19.3	41.3	51.7	69.7	75.7	85.3	88.3	87.3	93.3
GO-RUS20	1.0	1.0	2.3	4.7	11.7	31.0	47.0	56.3	65.3	71.0	77.0	84.7	86.3	89.7
MRS-L-PR22	1.7	0.7	0.7	3.3	5.0	22.7	44.3	50.3	78.3	88.0	85.0	90.7	84.7	94.3
PPG-PR 602	0.7	0.0	1.7	3.0	5.7	13.0	37.3	46.7	64.0	82.3	86.0	91.3	88.7	91.7
PPG-PR 643	1.0	0.7	0.7	4.0	5.7	19.3	40.0	49.0	62.0	88.0	81.7	85.7	84.7	94.7
PST-2BGL	0.7	0.7	0.0	3.3	5.7	17.3	43.0	58.0	76.3	89.0	91.3	92.3	87.7	93.3
SUNDOWN (BY-PS2)	0.7	0.0	0.0	2.7	4.7	24.3	44.0	64.0	78.7	81.7	87.3	90.0	83.7	93.3
PST-2SPF	0.7	0.7	0.7	3.3	4.3	18.0	45.7	54.7	58.3	81.0	78.0	79.0	71.7	90.3
BAR LP 22174	0.7	1.0	0.7	3.0	4.0	25.3	54.3	66.0	68.7	77.3	83.0	89.7	89.0	90.3
DLF-PR-3738	1.0	0.7	0.7	2.0	4.3	17.7	30.7	53.0	67.0	75.3	75.7	88.7	86.7	95.7
HIGH OCTANE	0.7	0.7	0.0	3.0	7.7	30.7	48.0	64.0	77.3	80.0	84.7	89.7	86.7	92.0
PPG-PR 644	1.3	1.0	0.7	3.7	6.3	30.0	52.3	61.0	85.3	88.7	95.3	93.3	92.7	93.7
LTP-NR	1.0	1.0	1.3	3.3	7.3	29.7	55.7	50.0	68.0	79.7	83.0	81.3	82.0	96.0
PPG-PR 606	0.7	0.7	0.7	2.7	4.7	23.0	44.7	63.7	62.3	65.0	70.7	82.3	82.0	91.0
PPG-PR 642	0.3	0.7	0.7	2.7	4.7	21.7	48.7	46.7	66.7	70.0	83.0	83.0	85.3	93.0
PST-2EGY	1.3	0.0	0.7	3.0	6.0	26.0	38.3	58.3	72.0	78.0	85.7	87.7	86.7	94.0
PVF-SGS5	0.7	0.0	0.7	3.3	6.0	13.7	29.0	43.7	63.3	66.0	80.3	78.7	77.3	91.0
SILETZ	0.7	0.7	0.0	2.7	5.0	18.3	34.7	59.7	69.0	79.0	89.3	85.0	85.7	92.7
DLF-PR-3728	0.3	0.0	0.0	2.3	7.0	19.3	44.0	51.3	68.0	71.0	79.3	81.0	83.0	92.3
PISTON	0.7	1.0	1.3	2.7	5.0	22.0	41.7	52.3	74.7	86.0	88.7	90.3	88.3	93.0
QUASAR	1.3	1.0	0.7	3.0	5.7	14.7	33.3	38.3	62.0	66.3	69.0	78.7	77.0	90.7
STELLAR 4GL	1.0	1.0	1.7	3.3	5.7	25.0	39.0	51.3	70.3	77.7	84.3	82.0	80.3	94.0
HOMERUN LS	1.3	0.0	1.3	3.3	6.0	33.7	55.0	60.3	69.7	75.3	85.3	89.3	86.7	97.0
PVF-RPP2	1.3	0.7	1.3	3.0	5.3	20.3	40.7	52.0	72.7	80.3	85.7	88.7	84.7	94.0
RPP3	0.3	0.7	1.3	3.7	7.3	29.3	35.3	41.7	63.7	64.0	70.3	71.0	81.3	91.0
BSG-PR22	0.7	0.0	1.3	3.0	5.7	31.3	51.7	73.3	77.3	89.3	88.7	90.7	88.0	93.0
DLF-PR-3729	1.0	1.0	1.3	3.3	5.3	16.7	41.3	56.3	73.3	65.0	80.5	64.5	70.0	92.0
PROMINENT II (TSC-CRS)	0.7	0.0	0.7	2.7	5.0	23.7	44.0	66.3	88.3	90.0	87.5	89.3	89.7	91.0
SEPR-2013	1.0	1.0	0.0	2.3	4.7	15.0	51.0	60.0	78.0	71.5	88.5	87.5	87.0	92.5
PPG-PR 658	0.7	1.0	0.7	3.3	7.3	15.7	42.0	54.0	79.7	83.3	87.7	88.0	87.3	93.0
FLIGHTLINE (PST-214)	1.3	1.7	1.7	3.3	5.7	26.3	57.3	69.3	87.0	85.7	93.7	93.7	87.7	93.0
PST-2E6	0.7	0.0	1.3	3.0	5.3	31.0	65.0	81.0	89.0	85.7	92.0	91.7	72.3	93.0
RC20-02O	0.3	1.0	1.7	4.0	10.0	24.7	62.7	71.3	82.3	91.0	92.3	92.3	94.0	98.3
LINN	1.0	0.7	2.0	2.7	17.7	31.0	59.3	66.3	73.3	72.3	83.7	89.3	88.0	90.0
PPG-PR 620	0.3	1.3	1.7	4.0	7.3	28.3	49.3	57.3	69.3	76.7	79.7	77.7	86.7	89.5
LSD VALUE	2.2	5.6	3.5	6.0	10.5	35.0	37.9	40.6	45.5	67.4	45.7	31.5	49.1	28.2
C.V. (%)	69.0	157.7	117.0	36.9	51.7	48.9	35.4	29.8	21.6	22.4	17.8	15.5	15.5	7.9

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/ PERCENT LEAF FIRING RATINGS: 0 INDICATES NO LEAF FIRING

TABLE 2.
(CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	CLIPPING YIELD (MG) CONTROL					CLIPPING YIELD (MG) DURING TREATMENT					% TREATMENT CLIPPING YIELD OVER CONTROL				
	MAR 6	MAR 29	APR 21	MAY 10	MAY 31	MAR 6	MAR 29	APR 21	MAY 10	MAY 31	MAR 6	MAR 29	APR 21	MAY 10	MAY 31
	6_ds	10_ds	14 ds	18_ds	22_ds	6_ds	10_ds	14 ds	18_ds	22_ds	6_ds	10_ds	14 ds	18_ds	22_ds
DLF-LGT-3066	143.3	76.0	142.3	176.0	73.7	103.3	59.7	62.0	41.3	19.3	72.7	78.0	47.3	24.0	25.3
BAR LP 22256	156.7	84.0	163.3	190.7	70.0	123.3	35.3	34.7	22.3	13.0	80.0	47.3	22.3	13.3	24.0
GO-RUS22	136.7	79.7	123.3	149.3	70.0	133.3	53.0	55.7	22.7	21.7	98.7	76.0	57.0	14.7	40.7
GRAY EAGLE SLT (PST-2MEG)	160.0	70.3	202.3	200.0	58.0	113.3	49.3	31.0	18.7	11.3	73.7	71.0	18.3	9.7	23.7
PERFORMANCE (NAI-PR5)	166.7	74.0	142.7	165.0	66.0	136.7	42.3	46.7	31.7	10.3	84.0	74.3	36.3	24.3	25.0
PPG-PR 610	140.0	59.3	168.0	147.3	39.7	123.3	50.7	43.7	28.0	12.0	92.7	85.3	25.3	20.0	31.0
PPG-PR 639	160.0	60.0	148.0	173.3	110.0	140.0	49.0	48.3	53.0	7.7	87.0	110.0	34.3	33.3	14.7
PPG-PR 663	150.0	55.0	139.3	119.0	72.0	123.3	62.7	56.0	40.0	14.7	88.3	181.7	16.0	50.3	28.3
PPG-PR 668	170.0	116.3	203.0	169.7	112.7	150.0	55.3	55.7	32.0	11.7	94.0	81.3	33.7	19.3	24.3
SGP4	136.7	168.7	173.0	171.7	49.3	120.0	58.3	79.3	38.0	26.3	90.7	48.0	48.3	21.3	61.7
ALPHA CENTAURI	143.3	76.7	171.0	140.0	56.3	126.7	51.0	29.3	19.3	11.3	89.0	69.3	18.7	14.7	31.7
BRIGHTSTAR SLT	153.3	89.3	178.3	160.7	85.0	106.7	46.0	41.3	37.3	12.3	70.3	54.7	25.7	27.0	20.7
DLF-PR-3737	170.0	135.0	150.0	177.7	72.3	113.3	51.7	52.3	40.3	18.0	65.7	41.7	33.3	25.0	37.3
GO-RUS21	133.3	61.3	117.3	121.0	43.7	146.7	42.7	35.0	27.3	16.3	112.7	96.7	38.7	23.7	42.3
NEXUS DK (SE-DK)	116.7	50.0	99.3	149.7	93.0	106.7	34.7	38.3	23.7	19.0	90.7	76.7	36.0	16.3	25.3
PPG-PR 647	136.7	75.3	159.0	150.0	89.0	120.0	82.0	32.0	26.0	11.3	94.0	119.0	20.0	16.7	17.7
PPG-PR 670	146.7	107.7	177.3	158.0	65.3	133.3	35.7	20.3	29.0	20.0	92.7	36.0	13.7	19.0	31.3
RELIC (PPG-PR 611)	150.0	66.7	116.3	165.7	75.3	110.0	39.3	32.3	23.7	12.0	74.0	67.3	23.7	15.0	26.3
VORTEX SRT (PPG-PR 665)	156.7	94.0	212.3	152.7	46.3	123.3	44.3	37.3	20.3	14.3	79.7	47.0	18.0	13.7	43.7
BAR LP 22191	126.7	77.7	117.3	142.0	48.7	123.3	44.0	33.7	23.0	11.3	101.7	56.3	33.7	17.3	30.7
BAR LP 22262	120.0	45.7	135.0	157.3	57.7	73.3	49.3	37.7	20.0	20.7	61.0	107.0	28.0	14.0	38.7
DLF-PR-3735	120.0	72.0	153.7	170.3	69.3	110.0	35.3	36.7	23.7	8.0	98.0	54.3	24.3	15.0	15.3
LIGHTSPEED (PST-2DRG)	150.0	74.7	149.0	152.3	56.3	120.0	50.0	40.7	26.7	13.7	86.0	84.0	39.3	17.7	23.3
LTP-RPP4	143.3	80.3	166.0	126.3	50.0	130.0	51.0	32.7	28.3	10.0	92.3	82.3	19.3	25.3	28.0
PPG-PR 661	190.0	71.7	160.3	253.7	85.3	156.7	74.3	63.0	30.0	12.3	84.7	133.7	42.3	14.0	17.7
ULTRA SPORT (PST-2HAF20)	133.3	60.3	180.7	142.3	45.7	120.0	41.3	44.3	24.0	16.7	89.7	78.0	25.0	17.3	36.3
BAR LP 22263	180.0	79.7	162.7	148.0	93.3	96.7	52.3	49.3	40.3	14.0	53.7	72.3	33.0	28.0	15.3
PST-2HFM	130.0	82.7	153.0	196.0	95.7	80.0	37.7	40.7	28.7	9.3	61.3	45.3	24.3	14.0	9.3
DARK MATTER	143.3	118.0	156.3	144.0	62.3	110.0	48.0	36.0	31.7	18.7	83.3	65.3	30.7	25.0	34.3
20PR10	150.0	52.3	140.0	134.0	73.7	120.0	47.0	38.7	21.3	7.3	80.7	103.7	24.0	19.0	25.3
CJP1R	130.0	55.3	109.7	157.3	54.3	113.3	39.7	30.7	11.7	7.3	93.3	75.3	30.0	8.0	17.7
DLF-PR-3726	160.0	73.3	172.7	157.7	45.7	126.7	58.7	37.3	22.7	12.3	80.3	80.0	20.7	16.7	34.3
DLF-PR-3727	143.3	52.7	177.7	167.7	71.7	120.0	60.7	47.7	25.7	10.7	92.0	116.3	25.0	15.0	20.0
DLF-PR-3730	140.0	68.0	167.7	146.7	40.0	106.7	56.3	39.7	13.7	12.3	76.0	94.7	24.0	10.7	31.3
DLF-PR-3736	153.3	63.0	162.7	179.7	145.3	140.0	43.3	26.3	13.3	6.0	91.3	78.7	16.0	7.0	6.7
ELEKTRA GLR (PPG-PR 671)	156.7	71.0	183.0	200.3	91.7	120.0	36.3	39.3	23.7	7.3	80.0	56.3	21.7	11.3	14.3
GREENBACK	156.7	52.3	134.3	149.7	42.0	130.0	29.7	17.0	14.3	11.7	84.7	65.3	12.0	10.0	30.3
KARMA	143.3	52.7	96.0	149.3	87.7	140.0	67.3	49.7	21.0	10.0	97.7	171.7	64.7	14.3	17.3
PPG-PR 646	143.3	57.7	140.7	187.3	76.7	100.0	36.3	40.0	27.3	11.0	69.3	61.7	27.3	14.0	21.3
PPG-PR 664	183.3	76.7	222.0	166.7	44.7	120.0	32.3	25.7	20.3	12.0	65.7	46.0	11.0	14.3	32.7
PPG-PR 666	163.3	88.0	164.3	169.3	55.7	116.7	36.0	44.7	27.7	9.0	72.7	45.0	26.7	16.0	15.3
PST-2ADS	150.0	77.7	183.3	161.0	44.3	123.3	55.3	39.0	24.3	10.7	81.7	73.3	21.7	16.0	24.7
PST-2GDS	150.0	48.0	168.7	152.0	55.3	90.0	33.3	23.0	19.0	12.0	62.7	77.3	14.7	14.7	28.7
PST-2MES1	183.3	66.0	179.0	180.0	49.3	123.3	51.7	34.3	23.0	10.7	68.7	85.0	18.0	13.3	25.7
PPG-PR 637	156.7	76.7	159.7	169.7	70.0	113.3	58.3	44.3	25.0	13.7	75.3	75.3	27.0	14.7	19.7
PPG-PR 662	130.0	61.7	164.3	182.7	94.3	116.7	53.3	48.0	35.0	14.7	89.7	102.0	27.7	19.7	23.3
PPG-PR 667	183.3	78.0	202.7	159.7	99.3	133.3	45.3	98.3	46.0	8.7	72.7	60.0	46.0	33.0	29.0

TABLE 2.
(CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER SALT TOLERANCE AT FORT COLLINS, CO 1/
2023 DATA

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

NAME	CLIPPING YIELD (MG) CONTROL					CLIPPING YIELD (MG) DURING TREATMENT					% TREATMENT CLIPPING YIELD OVER CONTROL				
	MAR 6	MAR 29	APR 21	MAY 10	MAY 31	MAR 6	MAR 29	APR 21	MAY 10	MAY 31	MAR 6	MAR 29	APR 21	MAY 10	MAY 31
	6_ds	10_ds	14 ds	18_ds	22_ds	6_ds	10_ds	14 ds	18_ds	22_ds	6_ds	10_ds	14 ds	18_ds	22_ds
PS4	146.7	63.3	169.7	159.3	57.3	136.7	49.7	56.7	35.7	8.7	94.3	105.7	33.0	23.0	15.7
APS	136.7	76.3	171.3	160.3	82.0	130.0	48.3	32.0	20.3	9.3	95.7	68.7	21.0	12.7	12.0
GO-RUS20	156.7	108.3	195.3	201.3	106.7	116.7	44.3	47.7	21.0	10.3	85.7	46.0	29.7	10.7	8.3
MRS�-PR22	116.7	30.3	57.3	107.7	40.0	106.7	32.3	20.7	11.7	3.3	97.7	117.7	45.0	11.0	17.7
PPG-PR 602	143.3	78.0	163.0	137.0	56.3	136.7	48.3	32.3	16.7	6.0	96.0	63.7	19.7	14.7	21.7
PPG-PR 643	126.7	82.3	134.7	170.7	76.3	120.0	44.7	24.3	26.3	8.3	94.7	69.7	17.7	14.3	10.0
PST-2BGL	153.3	70.0	156.3	180.0	56.7	113.3	31.7	15.7	8.7	2.7	78.7	49.0	10.3	4.7	6.0
SUNDOWN (BY-PS2)	176.7	62.7	128.0	128.3	43.7	126.7	41.3	39.0	26.7	10.7	75.0	65.3	34.0	22.7	24.7
PST-2SPF	106.7	56.3	114.7	135.0	55.7	80.0	42.7	36.7	22.0	15.3	75.7	78.3	31.0	16.0	30.7
BAR LP 22174	146.7	65.0	136.3	178.0	59.7	110.0	28.7	21.3	20.0	11.3	75.7	80.3	16.3	13.3	30.7
DLF-PR-3738	160.0	75.7	141.7	121.3	109.3	120.0	46.7	25.0	24.3	16.7	78.3	76.0	17.3	22.3	25.7
HIGH OCTANE	163.3	77.7	139.3	169.0	63.3	110.0	40.7	35.7	20.3	7.7	70.0	53.3	22.7	13.0	12.0
PPG-PR 644	156.7	74.0	177.7	180.7	110.3	103.3	36.3	25.3	14.0	2.3	67.7	51.0	14.3	7.3	2.0
LTP-NR	160.0	46.0	134.7	167.3	67.0	96.7	32.3	30.0	18.3	5.3	63.3	83.7	25.3	11.7	9.3
PPG-PR 606	143.3	75.0	155.3	135.0	48.0	113.3	37.0	27.7	26.3	15.3	79.0	56.3	18.7	21.0	28.7
PPG-PR 642	140.0	65.3	153.0	148.3	42.7	116.7	37.3	31.7	28.7	17.7	85.0	59.0	21.0	23.0	50.0
PST-2EGY	130.0	65.7	145.0	133.7	41.7	136.7	46.3	31.7	20.3	9.3	106.3	72.7	21.0	14.3	24.7
PVF-SGS5	143.3	68.0	150.7	193.3	58.0	150.0	58.7	51.0	25.3	11.0	106.0	85.7	39.0	15.3	22.3
SILETZ	130.0	75.0	163.3	154.0	60.3	136.7	57.7	32.3	21.0	15.7	108.7	79.7	19.0	16.7	38.3
DLF-PR-3728	136.7	100.7	196.7	143.0	34.7	146.7	41.3	27.7	31.0	9.0	109.3	41.0	14.3	21.7	29.7
PISTON	146.7	53.0	109.0	128.0	50.3	113.3	29.0	16.7	16.3	3.3	77.7	60.3	21.7	16.3	8.3
QUASAR	130.0	71.7	132.7	168.7	163.7	120.0	43.0	27.3	29.7	8.3	93.3	60.0	20.7	18.0	18.3
STELLAR 4GL	113.3	64.0	106.0	167.3	94.7	126.7	45.7	40.7	36.0	11.3	114.0	80.3	37.0	25.3	18.3
HOMERUN LS	163.3	59.3	115.0	157.7	86.7	90.0	37.3	24.0	20.0	14.7	56.7	62.3	20.3	13.0	15.3
PVF-RPP2	123.3	55.3	83.0	120.0	135.7	123.3	32.7	20.0	21.3	5.3	102.3	59.7	23.7	17.7	8.0
RPP3	136.7	67.0	149.3	193.7	124.3	110.0	43.7	54.0	23.3	8.3	81.3	72.7	31.7	11.3	8.7
BSG-PR22	126.7	61.3	130.3	127.7	37.7	106.7	29.3	14.7	14.3	11.0	87.7	48.7	10.0	12.0	31.0
DLF-PR-3729	160.0	79.7	183.0	126.0	90.7	106.7	35.0	31.7	20.3	12.7	66.7	49.7	16.0	18.3	31.0
PROMINENT II (TSC-CRS)	113.3	40.0	150.0	148.7	52.7	126.7	24.7	10.0	9.7	3.7	112.7	66.3	6.0	6.3	8.0
SEPR-2013	143.3	63.0	123.3	109.0	37.0	130.0	61.0	39.3	15.3	14.0	91.0	95.7	32.3	16.0	42.7
PPG-PR 658	150.0	58.7	149.7	160.3	56.3	140.0	40.0	20.3	15.7	3.7	97.3	66.0	18.0	9.3	12.7
FLIGHTLINE (PST-214)	146.7	76.3	131.7	140.7	68.7	126.7	37.0	25.3	15.3	10.0	87.7	49.3	19.0	10.7	27.3
PST-2E6	156.7	66.3	186.7	158.0	41.0	106.7	24.0	8.7	9.0	9.0	70.3	36.0	5.0	5.7	20.7
RC20-020	146.7	72.3	155.3	137.0	49.7	130.0	47.0	13.0	7.0	5.7	91.7	68.3	8.7	5.7	14.3
LINN	166.7	82.7	115.0	165.7	68.7	123.3	38.3	43.0	22.0	14.3	74.0	52.7	60.7	14.7	26.3
PPG-PR 620	163.3	77.0	166.0	186.0	104.3	96.7	30.3	19.0	9.7	2.3	62.0	40.7	11.3	5.3	4.7
LSÐ VALUE	90.4	88.2	131.7	101.5	135.6	48.3	58.7	69.4	41.1	31.2	70.3	174.4	76.4	45.3	106.1
C.V. (%)	18.6	41.7	29.3	22.6	59.4	17.7	38.9	61.8	55.8	70.0	25.6	60.7	76.2	71.4	89.6

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 3.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2023 DATA

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

NAME	GENETIC	PERCENT	QUALITY RATINGS									MEAN
	COLOR	ESTABLISHMENT	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
PPG-PR 670	6.3	63.3	6.7	6.3	6.0	6.3	6.0	7.0	7.0	7.0	6.5	
SILETZ	6.3	70.0	6.3	6.3	6.0	6.3	6.3	6.7	6.3	6.7	6.4	
PPG-PR 639	6.7	63.3	6.3	6.7	6.0	6.3	6.0	7.0	6.0	6.7	6.4	
PPG-PR 664	6.3	66.7	6.7	6.7	6.0	6.3	6.0	6.3	6.7	6.3	6.4	
PPG-PR 665	6.0	70.0	7.0	7.0	6.3	6.3	5.7	6.7	6.0	6.3	6.4	
APS	6.0	56.7	7.0	6.0	6.0	6.0	6.0	7.0	6.3	6.3	6.3	
CJP1R	6.0	63.3	7.0	6.0	6.0	6.3	6.0	6.7	6.3	6.3	6.3	
DLF-PR-3726	6.0	63.3	6.3	6.3	6.0	6.3	6.0	6.7	6.0	6.3	6.3	
DLF-PR-3730	5.7	60.0	6.7	6.7	5.7	6.0	6.0	7.0	6.0	6.7	6.3	
DLF-PR-3737	6.0	70.0	6.7	6.7	6.0	6.3	6.0	6.7	5.7	6.7	6.3	
DLF-PR-3738	6.0	66.7	6.7	6.7	5.7	6.0	6.0	6.0	6.3	6.7	6.3	
NAI-PR5	6.0	73.3	7.0	6.0	6.0	6.0	5.7	6.7	6.3	6.3	6.3	
PPG-PR 637	6.0	56.7	6.3	6.7	5.7	6.0	6.0	7.0	6.3	6.3	6.3	
PPG-PR 643	6.0	63.3	6.7	6.3	6.0	6.3	6.0	6.3	6.3	6.3	6.3	
PPG-PR 644	6.0	66.7	6.7	6.3	6.0	6.0	6.0	6.7	6.7	6.3	6.3	
PPG-PR 646	6.0	56.7	6.7	6.0	6.0	6.0	6.0	7.0	6.3	6.7	6.3	
PPG-PR 661	6.0	63.3	6.3	6.7	6.0	6.0	6.3	6.7	6.0	6.3	6.3	
PPG-PR 666	6.0	60.0	6.3	6.7	6.3	6.3	6.0	6.7	6.0	6.3	6.3	
PST-2ADS	6.0	63.3	6.7	6.0	5.3	6.3	6.0	6.7	6.3	6.7	6.3	
PVF-SGS5	6.0	70.0	6.7	6.3	6.0	6.3	6.0	6.3	6.3	6.3	6.3	
SGP4	6.0	56.7	6.7	6.7	6.0	6.3	5.7	6.7	6.0	6.3	6.3	
STELLAR 4GL	6.0	63.3	6.7	6.3	6.0	6.0	6.0	6.7	6.0	6.0	6.2	
DLF-PR-3727	6.0	60.0	6.3	6.3	5.7	6.0	6.0	6.7	6.0	6.3	6.2	
DLF-PR-3728	6.0	56.7	6.3	6.3	6.0	6.0	6.0	6.7	6.3	6.0	6.2	
ELEKTRA GLR (PPG-PR 671)	6.7	66.7	6.0	6.7	6.3	6.0	6.0	6.3	6.0	6.3	6.2	
PPG-PR 658	6.3	63.3	6.0	6.7	5.7	6.0	6.0	6.7	6.3	6.3	6.2	
PPG-PR 662	6.7	63.3	6.7	6.7	6.3	6.0	5.7	6.3	5.7	6.0	6.2	
PST-2MES1	6.3	73.3	6.7	7.0	6.0	6.0	5.7	6.0	6.0	6.3	6.2	
LTP-RPP4	6.0	53.3	6.7	6.0	5.7	6.0	6.0	6.0	6.0	6.3	6.1	
2OPR10	6.0	66.7	6.3	6.7	5.7	6.0	6.0	6.0	6.0	6.3	6.1	
BAR LP 22191	6.0	66.7	6.3	6.7	6.3	6.0	5.3	6.3	6.0	6.0	6.1	
GO-RUS21	6.0	63.3	6.0	6.3	6.0	6.0	5.7	6.3	6.0	6.7	6.1	
PPG-PR 602	6.0	56.7	6.0	6.3	5.7	6.0	6.0	6.7	6.0	6.0	6.1	
PPG-PR 606	6.7	63.3	6.0	6.3	6.3	5.7	6.0	6.0	6.0	6.3	6.1	
PPG-PR 610	6.0	53.3	6.0	6.7	6.0	6.3	6.0	6.3	5.7	6.0	6.1	
PPG-PR 611	6.3	56.7	6.3	6.3	5.3	6.0	6.0	6.7	6.0	6.3	6.1	
PPG-PR 647	6.0	60.0	6.0	6.3	6.0	6.0	6.0	6.3	6.0	6.3	6.1	
PPG-PR 663	6.3	56.7	6.3	6.3	5.7	6.0	5.7	6.7	5.7	6.3	6.1	
PPG-PR 668	6.0	53.3	6.7	6.7	5.3	6.0	5.7	6.0	6.3	6.0	6.1	
PST-214	6.7	56.7	6.3	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.1	
PST-2GDS	6.3	63.3	6.7	6.0	5.7	6.0	5.7	6.3	6.3	6.3	6.1	
QUASAR	6.0	60.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.1	
LTP-NR	6.0	53.3	6.0	5.7	5.7	6.0	6.0	6.7	6.0	6.3	6.0	
PVF-RPP2	6.0	60.0	6.0	5.7	5.3	6.0	6.0	6.7	6.0	6.3	6.0	
ALPHA CENTAURI	6.0	56.7	6.3	6.3	5.3	5.7	5.7	6.7	6.0	6.3	6.0	
BAR LP 22256	6.0	70.0	6.0	6.0	5.7	6.3	6.0	6.0	6.0	6.0	6.0	
GO-RUS22	6.3	60.0	6.7	6.0	6.0	6.0	6.0	6.0	5.3	6.3	6.0	

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT STORRS, CT 1/
2023 DATA

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

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	QUALITY RATINGS								MEAN	
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
PPG-PR 620	6.3	53.3	6.0	6.3	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0
PPG-PR 642	6.0	56.7	6.3	6.3	5.3	6.0	6.0	6.0	6.3	6.0	6.0	6.0
PPG-PR 667	6.0	50.0	6.0	6.3	5.7	5.7	5.7	5.7	6.3	5.7	6.3	6.0
PS4	6.0	56.7	6.0	6.0	5.7	6.0	6.0	6.0	6.7	6.0	6.0	6.0
PST-2EGY	6.0	63.3	6.7	6.0	6.0	5.7	5.7	6.0	5.7	6.0	6.0	6.0
ULTRA SPORT (PST-2HAF20)	7.0	56.7	6.3	6.3	6.0	6.0	6.0	5.7	5.7	5.7	5.7	6.0
BY-PS2	6.0	56.7	6.0	6.0	5.3	5.7	5.7	6.0	5.7	5.7	6.7	5.9
HOMERUN LS	6.0	66.7	6.7	6.3	5.7	5.7	5.3	6.0	5.3	6.0	6.0	5.9
DARK MATTER	6.3	66.7	6.3	6.3	6.0	6.0	6.0	6.0	5.3	5.3	5.3	5.9
DLF-PR-3729	6.0	60.0	6.0	6.0	6.0	6.0	6.0	6.0	5.3	6.0	6.0	5.9
GO-RUS20	5.7	70.0	6.0	6.3	6.3	6.0	5.7	6.0	5.3	5.7	5.7	5.9
GRAY EAGLE SLT (PST-2MEG)	6.7	60.0	6.0	6.3	6.0	6.0	5.7	5.7	5.7	6.0	6.0	5.9
PISTON	6.0	60.0	6.3	6.0	5.3	6.0	5.7	5.7	6.0	6.0	6.0	5.9
PST-2BGL	6.0	56.7	6.3	6.0	5.7	5.7	6.0	6.0	5.7	6.0	6.0	5.9
PST-2HFM	6.3	60.0	6.0	6.7	5.7	5.7	5.7	6.0	6.0	6.0	5.7	5.9
RPP3	6.0	60.0	6.3	6.3	5.7	5.7	5.7	6.0	6.0	6.0	5.7	5.9
RC20-020	5.7	63.3	6.3	6.0	5.0	5.7	5.7	6.0	5.7	5.7	5.7	5.8
BAR LP 22174	5.7	70.0	6.3	6.0	6.0	5.3	5.3	5.7	5.7	5.7	5.7	5.8
BAR LP 22263	6.0	56.7	6.0	6.0	6.0	6.0	5.3	5.7	5.3	5.7	5.7	5.8
DLF-PR-3736	6.0	50.0	6.3	5.7	5.3	6.0	5.7	6.0	5.3	6.0	6.0	5.8
HIGH OCTANE	6.0	63.3	6.3	5.7	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.8
KARMA	6.0	66.7	6.0	6.3	5.7	5.7	6.0	5.3	5.3	5.7	5.7	5.8
MRSI-PR22	7.0	70.0	6.3	6.3	6.0	6.0	5.7	5.3	5.3	5.7	5.7	5.8
PST-2E6	6.3	63.3	6.3	6.0	5.3	6.0	5.3	6.0	5.7	6.0	6.0	5.8
DLF-LGT-3066	6.0	53.3	6.0	5.7	5.7	6.3	5.7	6.0	5.0	5.0	5.0	5.7
GREENBACK	6.0	60.0	6.0	6.0	5.7	5.7	5.3	6.0	5.0	5.3	5.3	5.6
BRIGHTSTAR SLT	6.0	60.0	6.0	6.0	5.3	5.7	5.0	6.0	5.3	5.7	5.7	5.6
DLF-PR-3735	6.3	53.3	6.3	6.0	5.3	5.7	5.7	5.7	5.0	5.3	5.3	5.6
PST-2DRG	6.0	50.0	6.0	6.0	5.0	6.0	5.0	6.0	5.0	5.7	5.7	5.6
BAR LP 22262	5.7	56.7	6.0	5.7	5.7	5.7	5.3	5.7	5.0	5.0	5.0	5.5
SE-DK	7.0	46.7	6.0	5.7	5.3	5.7	5.3	5.0	5.3	5.3	5.3	5.5
SEPR-2013	5.7	53.3	6.0	6.0	5.3	5.7	5.3	5.3	5.0	5.7	5.7	5.5
TSC-CRS	6.7	56.7	6.0	6.0	5.3	5.7	5.3	5.3	5.3	5.3	5.3	5.5
BSG-PR22	6.7	60.0	6.0	5.7	5.3	5.7	5.0	5.0	5.0	5.0	5.0	5.3
PST-2SPF	7.0	66.7	5.7	6.0	5.3	5.0	5.0	5.0	5.0	5.0	5.0	5.3
LINN	5.0	56.7	5.0	5.3	5.0	4.0	4.7	5.0	5.0	5.0	5.0	4.9
LSD VALUE	0.6	21.1	1.0	1.3	1.4	0.9	0.8	0.9	0.7	1.2	1.2	0.5
C.V. (%)	5.4	13.5	7.0	7.9	8.7	7.2	6.9	8.0	7.5	9.4	9.4	4.5

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

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

TABLE 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST GROWN UNDER OVERSEEDING FAIRWAY AT GAINESVILLE, FL 1/
2023 DATA

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

NAME	QUALITY	QUALITY RATINGS			MEAN
	DEC 2022	JAN	FEB	MAR	
PPG-PR 670	4.0	7.0	8.0	5.7	6.9
PST-2MES1	4.0	6.3	8.3	6.0	6.9
BAR LP 22174	4.5	6.5	8.5	5.5	6.8
DLF-PR-3736	3.7	7.0	8.0	5.3	6.8
ELEKTRA GLR (PPG-PR 671)	4.0	6.7	8.0	5.7	6.8
RC20-020	3.7	6.3	8.0	6.0	6.8
20PR10	4.3	7.0	7.7	5.3	6.7
NAI-PR5	3.5	7.0	8.0	5.0	6.7
PPG-PR 611	3.7	6.7	8.0	5.3	6.7
PPG-PR 620	3.0	6.7	7.7	5.7	6.7
PST-214	3.7	6.3	8.0	5.7	6.7
DLF-PR-3726	4.3	6.7	7.3	5.7	6.6
DLF-PR-3728	3.3	6.3	7.7	5.7	6.6
PPG-PR 642	3.0	6.3	7.7	5.7	6.6
PPG-PR 668	3.3	6.3	8.0	5.3	6.6
PPG-PR 662	3.5	6.5	8.0	5.0	6.5
HOMERUN LS	4.3	7.0	7.7	4.7	6.4
PPG-PR 610	3.3	6.0	7.7	5.7	6.4
PST-2ADS	3.7	6.7	7.3	5.3	6.4
CJP1R	3.7	5.7	7.7	5.7	6.3
GO-RUS22	3.5	6.0	7.5	5.5	6.3
KARMA	4.7	6.0	7.7	5.3	6.3
PPG-PR 639	3.0	6.0	7.5	5.5	6.3
PPG-PR 644	4.0	6.3	7.3	5.3	6.3
PPG-PR 646	3.5	6.5	8.0	4.5	6.3
SGP4	4.0	6.5	8.0	4.5	6.3
ALPHA CENTAURI	3.3	5.7	7.7	5.3	6.2
BRIGHTSTAR SLT	4.0	6.0	7.7	5.0	6.2
BSG-PR22	4.0	6.0	7.5	5.0	6.2
DLF-PR-3738	3.5	6.0	7.5	5.0	6.2
GREENBACK	4.0	6.3	7.3	5.0	6.2
LTP-NR	3.3	6.3	7.7	4.7	6.2
LTP-RPP4	4.0	6.0	7.3	5.3	6.2
PISTON	3.7	6.3	7.7	4.7	6.2
PPG-PR 647	2.7	6.3	7.7	4.7	6.2
APS	3.3	6.0	7.3	5.0	6.1
GO-RUS20	2.3	5.0	8.0	5.3	6.1
PPG-PR 661	3.3	6.7	7.7	4.0	6.1
PPG-PR 666	4.0	6.3	8.0	4.0	6.1
PS4	3.3	6.7	7.0	4.7	6.1
PST-2BGL	3.7	6.0	7.7	4.7	6.1
PST-2DRG	3.7	6.0	8.0	4.3	6.1
PVF-SGS5	3.7	6.0	8.0	4.3	6.1
BAR LP 22191	3.0	5.7	8.0	4.3	6.0
DLF-LGT-3066	4.7	6.0	7.7	4.3	6.0
DLF-PR-3735	3.0	6.0	8.0	4.0	6.0
PPG-PR 606	4.0	6.5	7.5	4.0	6.0

TABLE 4.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST GROWN UNDER OVERSEEDING FAIRWAY AT GAINESVILLE, FL 1/
2023 DATA

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

NAME	QUALITY	QUALITY RATINGS			MEAN
	DEC 2022	JAN	FEB	MAR	
PPG-PR 643	3.0	6.0	7.5	4.5	6.0
PST-2EGY	3.5	6.5	7.0	4.5	6.0
PVF-RPP2	2.7	5.3	8.0	4.7	6.0
SEPR-2013	3.0	6.5	7.5	4.0	6.0
PPG-PR 602	3.7	6.0	7.3	4.3	5.9
PPG-PR 667	4.3	6.3	7.3	4.0	5.9
TSC-CRS	3.0	5.3	7.3	5.0	5.9
ULTRA SPORT (PST-2HAF20)	3.3	6.3	7.3	4.0	5.9
DARK MATTER	3.0	5.5	7.0	5.0	5.8
GO-RUS21	3.7	6.0	8.0	3.3	5.8
GRAY EAGLE SLT (PST-2MEG)	4.7	6.0	7.3	4.0	5.8
PPG-PR 663	3.0	5.7	7.0	4.7	5.8
PPG-PR 665	4.0	6.5	7.0	4.0	5.8
PST-2GDS	4.0	6.0	8.0	3.5	5.8
SE-DK	3.5	6.5	7.5	3.5	5.8
BAR LP 22262	3.0	5.3	7.3	4.3	5.7
BAR LP 22263	3.5	5.5	7.0	4.5	5.7
DLF-PR-3727	4.0	5.7	7.7	3.7	5.7
DLF-PR-3737	3.0	4.7	7.7	4.7	5.7
HIGH OCTANE	3.7	6.0	7.0	4.0	5.7
PPG-PR 658	3.3	5.3	7.7	4.0	5.7
PST-2E6	3.0	5.7	7.7	3.7	5.7
QUASAR	4.0	5.7	7.3	4.0	5.7
BY-PS2	3.3	6.0	7.3	3.3	5.6
PPG-PR 637	2.3	5.7	7.3	3.7	5.6
PPG-PR 664	2.5	5.5	6.5	4.5	5.5
MRSL-PR22	3.3	5.3	6.7	4.0	5.3
BAR LP 22256	3.0	5.3	6.7	3.7	5.2
PST-2HFM	3.0	5.5	7.5	2.5	5.2
SILETZ	3.0	5.0	7.3	3.3	5.2
STELLAR 4GL	3.7	5.7	6.7	3.3	5.2
PST-2SPF	2.3	4.7	6.7	4.0	5.1
RPP3	2.3	4.7	7.3	3.3	5.1
DLF-PR-3730	3.0	5.0	7.3	2.3	4.9
LINN	2.0	4.0	5.5	5.0	4.8
DLF-PR-3729	2.0	4.0	6.7	3.3	4.7
LSD VALUE	5.1	4.4	3.8	5.1	2.1
C.V. (%)	30.2	17.3	10.5	28.3	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.

TABLE 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2022 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/ 2023 DATA

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

NAME	GENETIC	SPRING	QUALITY RATINGS								MEAN
	COLOR	GREENUP	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
GO-RUS21	3.3	4.3	7.0	6.3	7.0	6.3	6.0	6.3	6.0	6.0	6.4
HOMERUN LS	3.7	4.0	6.7	6.3	7.0	6.3	5.7	5.7	5.7	6.7	6.3
SILETZ	5.3	3.3	6.3	6.7	6.3	6.0	6.3	6.3	6.0	6.7	6.3
DLF-PR-3730	4.0	3.7	6.3	6.7	6.3	6.7	6.0	5.7	5.3	6.3	6.2
PST-2ADS	4.7	5.3	6.0	6.0	7.0	6.3	6.0	6.0	6.0	6.0	6.2
PPG-PR 606	5.3	4.7	6.3	6.0	6.7	6.3	6.0	6.0	5.7	6.0	6.1
PPG-PR 610	4.7	5.7	6.7	6.0	6.3	6.0	6.0	6.0	5.7	6.0	6.1
PPG-PR 643	4.3	5.7	6.0	6.0	6.7	6.7	6.0	6.0	5.7	6.0	6.1
PPG-PR 668	4.0	5.0	6.3	6.3	6.3	6.3	5.7	6.0	5.7	6.0	6.1
PST-2MES1	5.0	5.3	6.3	6.0	7.0	6.3	5.7	6.0	5.3	6.0	6.1
APS	4.7	5.0	6.0	6.3	6.3	6.0	5.7	6.0	5.7	6.0	6.0
BAR LP 22262	3.3	5.3	5.0	6.0	6.3	6.0	6.0	6.7	5.7	6.0	6.0
BAR LP 22263	3.7	4.7	6.0	6.3	7.0	6.3	5.7	5.7	5.3	6.0	6.0
BSG-PR22	7.0	6.3	7.0	5.7	6.7	7.0	5.3	5.7	5.0	6.0	6.0
BY-PS2	5.0	7.3	5.7	6.0	6.3	6.3	5.7	6.0	5.7	6.0	6.0
CJPLR	5.7	5.3	5.7	6.0	6.7	6.0	6.0	6.0	5.7	6.0	6.0
DLF-PR-3729	4.0	6.0	6.3	6.0	6.7	6.3	5.7	6.0	5.3	6.0	6.0
DLF-PR-3736	4.0	6.3	6.0	6.0	6.3	5.7	6.0	6.3	5.7	6.0	6.0
DLF-PR-3738	5.7	3.7	5.7	6.0	6.0	6.7	6.0	6.3	5.3	6.0	6.0
GO-RUS20	3.3	5.3	6.3	6.0	6.3	6.0	6.0	6.0	5.7	6.0	6.0
HIGH OCTANE	5.7	4.3	6.0	6.0	6.3	6.0	6.0	6.0	5.7	6.0	6.0
LTP-NR	4.7	6.0	5.7	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0
LTP-RPP4	5.3	4.7	5.3	5.7	7.0	6.0	6.0	6.0	5.7	6.0	6.0
NAI-PR5	4.7	6.0	5.3	6.0	6.3	5.7	6.0	6.3	6.0	6.0	6.0
PPG-PR 602	5.0	6.7	6.3	6.0	6.3	6.0	5.7	6.0	5.7	6.3	6.0
PPG-PR 611	4.3	5.0	5.7	6.0	6.7	6.0	6.0	6.0	5.3	6.0	6.0
PPG-PR 620	5.0	4.7	5.7	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0
PPG-PR 642	4.7	6.0	5.7	6.0	6.7	6.0	5.7	6.0	5.7	6.0	6.0
PPG-PR 644	4.3	5.0	5.7	6.0	6.7	6.0	6.0	6.0	6.0	6.0	6.0
PPG-PR 646	6.7	4.7	6.0	5.7	6.3	6.0	6.0	6.3	5.7	6.0	6.0
PPG-PR 647	4.0	6.3	5.3	6.0	6.3	6.3	6.0	6.3	6.0	6.0	6.0
PPG-PR 662	5.3	7.0	5.3	5.7	6.7	6.0	6.0	6.0	6.0	6.0	6.0
PPG-PR 663	4.3	4.7	5.3	6.0	6.7	6.0	6.0	6.0	5.7	6.0	6.0
PPG-PR 665	2.7	5.7	5.7	6.0	6.3	6.3	5.7	6.0	5.7	6.3	6.0
PPG-PR 666	4.0	4.7	5.7	6.0	6.7	6.3	6.0	6.0	5.3	6.0	6.0
PPG-PR 667	5.0	5.7	5.7	6.0	6.7	6.0	5.3	6.3	5.7	6.0	6.0
PS4	4.3	3.0	5.7	6.0	6.3	6.7	5.7	5.7	6.0	6.0	6.0
PST-214	4.3	5.7	5.3	6.3	6.3	6.3	6.0	6.0	5.7	6.0	6.0
PST-2BGL	4.3	4.7	5.7	6.3	6.3	6.0	5.7	6.0	5.7	6.0	6.0
PST-2GDS	3.3	5.7	6.0	6.0	6.0	6.3	5.7	6.0	5.7	6.0	6.0
PST-2HFM	5.7	5.7	5.7	6.0	6.3	6.7	5.7	6.0	5.3	6.0	6.0
PVF-SGS5	3.3	7.0	5.7	6.0	6.0	6.7	6.0	6.0	5.7	6.0	6.0
RPP3	5.3	3.0	6.0	6.0	6.7	5.7	5.7	6.0	5.7	6.0	6.0
ULTRA SPORT (PST-2HAF20)	4.0	5.3	6.0	6.0	6.3	6.0	6.0	6.0	5.7	6.0	6.0
20PR10	3.3	3.7	5.7	6.0	6.3	5.7	5.7	6.0	5.7	6.0	5.9
BAR LP 22191	5.0	5.0	5.7	6.0	6.0	6.0	5.7	6.0	5.7	6.0	5.9
DLF-LGT-3066	4.0	4.0	5.7	6.0	6.0	6.0	6.0	6.0	5.7	6.0	5.9

TABLE 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE 2022 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/ (CONT'D) 2023 DATA

NAME	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/										
	GENETIC COLOR	SPRING GREENUP	APR	MAY	JUN	QUALITY RATINGS					MEAN
						JUL	AUG	SEP	OCT	NOV	
DLF-PR-3735	6.7	5.7	5.3	6.0	6.3	6.3	5.3	6.0	5.3	6.3	5.9
DLF-PR-3737	5.0	5.3	5.3	6.0	6.3	6.3	6.0	6.0	5.0	6.0	5.9
GRAY EAGLE SLT (PST-2MEG)	5.7	5.7	5.0	6.0	6.3	6.3	6.0	6.0	5.7	6.0	5.9
PISTON	5.7	4.3	5.3	6.0	6.0	6.0	6.0	5.7	6.0	6.0	5.9
PPG-PR 637	4.0	6.0	5.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0	5.9
PPG-PR 639	5.0	5.0	6.3	6.0	6.0	6.0	5.3	6.0	5.3	6.0	5.9
PPG-PR 658	4.3	4.3	5.0	6.0	6.0	6.7	5.7	6.0	6.0	6.0	5.9
PPG-PR 664	5.0	5.0	5.7	6.0	6.0	6.3	5.3	6.3	5.7	6.0	5.9
PPG-PR 670	4.7	5.7	6.0	6.0	6.0	6.0	5.3	6.0	5.3	6.3	5.9
PST-2DRG	4.3	6.0	5.7	6.0	6.7	6.0	5.3	6.0	5.7	6.0	5.9
PST-2E6	5.3	5.3	5.7	6.0	6.3	6.0	5.7	6.0	5.7	6.0	5.9
QUASAR	3.7	6.3	6.3	6.0	6.0	6.0	5.3	6.0	5.3	6.0	5.9
RC20-020	4.7	6.0	6.3	6.0	6.0	6.0	6.0	5.3	5.3	6.0	5.9
SE-DK	5.7	3.3	6.0	6.3	6.0	6.0	5.7	5.7	5.3	6.0	5.9
SGP4	3.3	4.7	6.0	6.0	6.0	6.3	5.7	6.0	5.0	6.3	5.9
TSC-CRS	5.3	7.0	6.0	6.0	6.3	6.0	5.3	5.7	5.7	6.0	5.9
BAR LP 22256	4.3	5.3	5.3	6.0	6.0	6.0	5.7	6.0	5.7	6.0	5.8
BRIGHTSTAR SLT	4.3	5.7	5.3	6.0	6.7	6.3	5.3	5.3	5.7	6.0	5.8
DLF-PR-3726	5.0	6.0	5.0	6.0	6.0	6.0	5.7	6.0	5.3	6.0	5.8
DLF-PR-3727	4.7	5.0	5.0	6.0	6.3	6.0	5.0	6.0	5.7	6.0	5.8
ELEKTRA GLR (PPG-PR 671)	4.3	6.0	5.7	6.0	6.0	6.0	5.7	5.7	5.7	6.0	5.8
GO-RUS22	3.7	3.7	5.3	6.0	6.0	6.3	5.7	6.0	5.3	6.0	5.8
GREENBACK	7.0	5.3	5.3	6.0	6.7	6.0	5.0	5.7	5.3	6.0	5.8
PST-2EGY	4.3	5.3	5.7	6.0	6.7	6.0	5.0	5.7	5.7	6.0	5.8
PVF-RPP2	6.0	4.7	5.7	6.0	6.0	6.0	5.7	6.0	5.3	6.0	5.8
STELLAR 4GL	4.3	5.0	5.7	6.0	6.0	6.0	5.7	6.0	5.3	6.0	5.8
ALPHA CENTAURI	5.7	6.7	5.3	6.0	6.0	5.3	5.7	6.0	5.3	6.0	5.7
BAR LP 22174	2.7	6.7	5.0	6.0	6.3	5.7	5.0	5.7	6.0	6.0	5.7
DARK MATTER	6.0	6.0	6.0	6.0	6.0	6.0	5.3	5.3	5.0	6.0	5.7
KARMA	6.0	5.0	5.3	6.0	6.3	5.3	5.0	6.3	5.3	5.7	5.7
LINN	3.7	4.7	5.3	5.7	6.0	6.0	5.0	6.0	5.7	6.0	5.7
MRSI-PR22	7.0	5.7	5.7	6.0	6.3	6.0	5.0	5.3	5.0	6.0	5.7
PPG-PR 661	4.3	6.0	5.0	6.0	6.0	6.0	5.0	6.3	5.3	6.0	5.7
PST-2SPF	7.0	5.7	5.0	6.0	6.0	6.0	5.0	6.0	5.7	5.7	5.7
DLF-PR-3728	6.7	5.0	5.3	5.7	5.7	5.7	5.3	6.0	5.0	6.0	5.6
SEPR-2013	6.7	4.3	5.0	6.0	6.0	5.3	5.7	5.7	5.3	5.7	5.6
LSD VALUE	3.1	2.8	1.7	1.4	2.4	1.3	0.8	1.4	1.8	0.5	0.5
C.V. (%)	28.4	23.4	11.5	5.1	8.7	7.4	7.3	6.5	8.3	3.5	3.3

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 5.
(CONT'D)MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2023 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER RATINGS			QUALITY RATINGS		PERCENT ESTABLISHMENT	
	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	OCT 2022	NOV 2022	4 WEEKS	7 WEEKS
GO-RUS21	8.7	6.7	7.3	96.3	68.3	70.3	4.3	6.3	35.3	79.3
HOMERUN LS	8.0	4.3	5.0	96.3	44.3	87.0	4.7	6.3	39.3	81.7
SILETZ	8.7	5.0	6.3	86.3	58.3	93.0	4.7	5.7	42.3	73.7
DLF-PR-3730	8.7	6.7	6.0	94.3	57.7	77.3	4.3	4.7	26.3	57.0
PST-2ADS	7.7	5.3	6.3	81.0	61.7	88.7	4.3	4.7	25.3	63.0
PPG-PR 606	8.0	5.0	4.3	91.7	51.0	69.0	4.0	4.7	18.7	58.0
PPG-PR 610	8.3	5.3	6.0	85.0	54.3	71.7	3.7	4.3	29.0	61.3
PPG-PR 643	8.0	6.3	7.0	91.7	58.7	83.3	4.3	4.3	21.3	58.3
PPG-PR 668	7.7	5.3	5.3	92.7	55.7	76.3	4.0	6.3	30.0	75.3
PST-2MES1	7.3	4.7	4.7	86.0	46.7	64.7	4.0	4.7	24.3	60.3
APS	7.3	5.7	6.3	89.0	62.3	78.0	4.7	4.7	23.7	65.7
BAR LP 22262	7.0	6.7	6.3	88.7	62.3	65.7	4.0	4.7	25.3	57.7
BAR LP 22263	8.0	5.0	6.0	81.0	51.7	67.3	4.7	4.7	15.7	62.0
BSG-PR22	6.0	4.7	4.3	80.3	38.7	60.7	4.0	4.7	24.3	57.3
BY-PS2	6.7	5.3	5.7	83.7	55.3	82.0	4.0	4.7	29.7	60.3
CJP1R	7.3	6.0	7.0	85.0	66.3	79.3	4.3	4.0	16.3	50.7
DLF-PR-3729	5.0	6.0	6.7	92.7	57.7	84.3	4.0	4.7	27.7	60.0
DLF-PR-3736	6.7	5.7	6.3	86.7	57.7	62.3	4.0	4.3	16.3	57.0
DLF-PR-3738	5.0	5.7	6.0	84.7	60.7	78.7	4.0	4.0	26.0	56.7
GO-RUS20	7.7	6.0	5.7	95.7	54.0	75.3	4.3	6.0	41.3	71.0
HIGH OCTANE	7.7	4.7	5.0	91.7	57.0	72.7	4.0	5.0	32.0	65.3
LTP-NR	7.7	5.3	6.0	91.3	53.7	83.0	3.3	4.0	18.7	53.3
LTP-RPP4	7.3	4.3	6.0	75.7	48.7	85.7	4.0	3.7	37.7	48.0
NAI-PR5	7.7	5.7	7.7	93.3	60.0	77.3	3.7	4.3	26.0	60.3
PPG-PR 602	6.7	5.0	5.3	92.0	52.0	76.0	4.0	5.0	29.7	65.3
PPG-PR 611	7.3	5.3	5.0	87.0	57.0	77.3	3.3	4.0	27.3	55.7
PPG-PR 620	7.7	5.7	8.0	77.3	59.3	82.3	4.0	4.3	23.7	58.0
PPG-PR 642	7.0	5.3	6.0	86.3	56.7	90.7	4.0	4.0	16.7	52.0
PPG-PR 644	8.0	4.7	7.7	91.7	57.0	80.3	3.3	4.7	25.0	61.0
PPG-PR 646	8.3	4.3	6.7	77.3	58.3	84.7	3.7	3.3	16.7	34.0
PPG-PR 647	7.0	7.3	7.3	88.3	68.0	81.7	3.7	4.0	25.7	58.0
PPG-PR 662	6.3	6.0	6.3	81.3	55.3	81.3	4.0	5.0	21.3	58.3
PPG-PR 663	7.3	5.3	5.0	81.7	58.7	81.3	4.0	4.3	19.7	53.7
PPG-PR 665	7.3	6.0	5.7	94.0	53.0	87.7	3.7	5.7	29.7	68.7
PPG-PR 666	8.7	5.3	3.7	78.3	55.0	70.7	4.3	4.0	26.3	54.7
PPG-PR 667	7.0	4.7	5.7	84.0	64.0	64.7	4.0	3.7	19.7	53.0
PS4	8.0	5.3	7.0	88.7	59.0	83.0	3.3	5.3	28.3	68.0
PST-214	7.7	5.0	6.0	81.7	49.0	70.0	4.0	4.7	14.7	43.3
PST-2BGL	7.7	5.0	5.0	88.7	48.0	71.7	4.3	5.0	30.7	64.7
PST-2GDS	7.7	4.7	5.0	84.7	48.3	81.0	3.7	5.7	18.3	66.7
PST-2HFM	8.0	4.7	6.3	83.0	55.3	78.3	4.0	4.0	32.7	54.7
PVF-SGS5	6.3	6.7	6.3	89.0	60.7	77.7	4.0	3.7	24.0	54.0
RPP3	8.3	5.0	6.7	83.3	55.3	87.0	4.0	5.0	25.7	59.0
ULTRA SPORT (PST-2HAF20)	7.3	4.7	4.7	91.0	51.7	75.0	4.0	5.0	29.0	52.7
20PR10	8.0	5.0	6.0	89.7	57.7	84.3	3.7	4.3	34.0	66.3
BAR LP 22191	8.0	5.7	5.7	85.0	55.7	69.0	4.0	4.0	25.7	57.3
DLF-LGT-3066	7.7	6.3	6.0	83.3	58.0	74.7	3.7	4.0	21.3	57.0

TABLE 5.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT AMES, IA 1/
2023 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER RATINGS			QUALITY RATINGS		PERCENT ESTABLISHMENT	
	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	OCT 2022	NOV 2022	4 WEEKS	7 WEEKS
DLF-PR-3735	8.7	5.0	5.3	74.7	50.0	82.7	4.0	4.0	18.3	40.7
DLF-PR-3737	8.0	5.3	4.7	82.0	53.7	60.0	4.0	4.7	32.7	54.7
GRAY EAGLE SLT (PST-2MEG)	7.0	5.7	7.0	88.0	55.3	80.3	4.3	4.7	25.3	62.3
PISTON	8.0	4.0	5.3	76.3	50.3	88.3	4.0	4.3	21.3	53.7
PPG-PR 637	7.0	6.3	7.7	83.0	60.7	84.0	3.3	4.3	35.0	62.0
PPG-PR 639	7.7	5.0	6.0	80.7	56.3	80.3	3.7	3.7	29.3	42.3
PPG-PR 658	7.7	6.3	7.7	83.3	61.3	85.3	4.3	3.7	19.0	47.7
PPG-PR 664	7.3	5.3	5.7	81.3	59.3	76.3	4.0	3.7	18.0	45.7
PPG-PR 670	8.3	5.3	5.7	81.3	52.7	79.3	3.7	5.0	25.3	57.3
PST-2DRG	8.0	4.0	6.0	87.3	47.7	78.3	3.7	4.0	22.0	55.3
PST-2E6	8.0	5.3	6.3	74.3	46.3	75.3	3.3	4.0	29.7	49.0
QUASAR	6.3	5.3	5.7	80.3	56.0	72.7	4.3	5.0	24.0	55.7
RC20-020	4.3	4.3	4.3	81.0	54.3	64.3	3.7	5.0	30.3	60.0
SE-DK	7.7	3.3	4.0	73.7	37.7	61.7	4.3	5.3	23.3	63.0
SGP4	8.0	5.3	5.0	85.0	58.3	87.7	4.0	4.0	28.7	52.3
TSC-CRS	6.7	3.0	6.3	77.3	53.3	72.3	3.7	4.3	23.0	58.3
BAR LP 22256	7.7	5.0	6.3	78.7	49.0	65.0	4.0	4.0	15.3	48.7
BRIGHTSTAR SLT	6.7	4.3	5.3	83.3	46.3	68.0	3.7	4.3	20.3	61.0
DLF-PR-3726	7.0	5.7	5.0	87.3	51.7	65.7	4.3	4.3	25.3	50.7
DLF-PR-3727	8.0	5.7	5.3	79.3	52.3	71.0	4.0	3.7	20.0	42.0
ELEKTRA GLR (PPG-PR 671)	7.0	5.0	6.0	87.7	53.7	74.7	3.3	5.0	22.0	68.7
GO-RUS22	8.7	5.3	6.0	84.3	62.7	77.3	3.7	4.7	26.0	59.0
GREENBACK	6.7	2.7	4.3	73.0	46.0	59.3	4.7	4.3	26.3	53.0
PST-2EGY	7.7	5.0	5.7	84.0	56.3	75.0	4.0	5.7	30.7	57.7
PVF-RPP2	8.3	6.0	5.0	85.7	62.0	85.3	4.0	4.3	30.7	55.7
STELLAR 4GL	7.7	5.0	6.3	88.3	56.3	78.3	4.0	4.7	28.3	58.3
ALPHA CENTAURI	6.7	3.7	5.0	72.7	53.0	78.0	4.0	4.3	16.0	39.7
BAR LP 22174	7.0	5.0	7.3	85.7	46.0	84.7	4.0	4.3	33.0	68.0
DARK MATTER	7.0	4.0	4.3	77.7	38.3	61.7	4.3	4.7	30.7	59.3
KARMA	7.3	3.7	5.3	74.7	61.3	61.3	4.0	3.3	16.7	39.7
LINN	7.0	4.7	6.0	55.7	46.3	67.7	3.0	3.3	22.0	38.3
MRS�-PR22	6.7	3.7	4.7	74.3	39.0	65.3	4.0	5.0	28.7	57.0
PPG-PR 661	7.3	6.0	5.3	70.7	53.7	77.7	4.0	4.3	21.0	45.0
PST-2SPF	8.0	5.3	6.0	73.3	56.3	63.7	3.3	3.7	26.3	46.7
DLF-PR-3728	6.7	4.7	4.7	59.0	52.0	67.0	3.7	4.0	20.3	41.3
SEPR-2013	8.0	2.7	5.0	68.3	53.3	68.0	4.3	4.0	21.3	47.7
LSD VALUE	2.6	1.9	2.3	32.3	17.2	27.4	2.3	2.5	18.6	28.1
C.V. (%)	14.8	19.4	19.7	13.5	14.7	15.0	15.0	21.2	32.1	21.4

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 6.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	DENSITY RATINGS			QUALITY RATINGS								MEAN
			SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PST-2DRG	5.3	4.7	7.7	6.7	6.7	6.3	6.0	6.3	6.3	6.0	6.0	6.3	6.0	6.2
GREENBACK	4.3	5.3	7.3	5.7	6.7	6.3	6.0	6.0	6.7	6.0	6.0	6.0	5.7	6.1
DLF-PR-3726	5.3	4.7	5.7	7.3	5.7	6.0	6.0	5.7	6.7	6.0	6.0	6.0	6.3	6.1
DLF-PR-3728	5.0	4.3	8.0	7.7	7.0	6.3	6.3	6.0	6.3	6.0	6.0	6.0	6.0	6.1
PPG-PR 646	7.0	4.7	8.0	6.7	6.7	6.0	6.0	6.0	6.3	6.0	6.0	6.3	6.0	6.1
PPG-PR 661	3.7	5.0	8.0	7.3	5.3	6.3	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.1
PS4	3.7	4.7	8.7	5.3	4.7	7.0	6.0	6.7	6.3	6.0	5.3	6.3	5.3	6.1
PST-2HFM	6.7	5.0	6.7	7.7	6.0	6.0	6.3	6.3	6.7	6.0	5.7	6.0	6.0	6.1
RPP3	4.7	4.7	6.7	6.3	5.7	6.3	6.0	6.0	6.3	6.0	6.0	6.3	5.7	6.1
HOMERUN LS	3.0	4.3	6.0	7.3	7.0	5.7	6.0	5.7	7.0	6.0	6.0	5.7	5.7	6.0
LTP-RPP4	5.0	4.3	7.0	5.7	6.3	6.0	6.0	5.7	6.7	6.0	5.7	6.0	6.0	6.0
RC20-020	7.0	5.3	6.7	6.0	5.7	6.0	6.7	5.3	6.0	6.0	5.7	6.0	6.0	6.0
SILETZ	4.0	5.0	7.3	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
STELLAR 4GL	4.0	5.0	7.7	6.7	5.3	6.0	6.0	6.3	6.0	5.7	6.0	6.0	5.7	6.0
20PR10	5.0	4.3	6.3	7.7	6.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
ALPHA CENTAURI	7.7	5.0	7.7	7.0	5.3	6.0	6.0	6.0	6.3	6.0	5.7	6.0	6.0	6.0
APS	5.7	5.0	7.0	7.3	6.3	6.0	6.3	6.0	6.0	6.0	5.3	6.0	6.0	6.0
BAR LP 22174	2.7	4.0	7.3	8.0	5.7	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0
BAR LP 22256	3.3	4.3	7.3	5.3	8.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
BAR LP 22263	4.7	4.7	7.3	7.3	6.0	6.0	6.0	6.0	6.7	6.0	5.7	6.3	5.7	6.0
DLF-PR-3727	5.7	4.7	7.3	7.3	6.3	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DLF-PR-3735	5.0	5.0	7.0	6.0	8.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DLF-PR-3737	6.3	4.7	6.3	6.7	6.7	5.7	6.0	6.0	6.7	6.0	6.0	6.0	6.0	6.0
DLF-PR-3738	5.7	5.0	7.7	7.0	6.0	6.0	6.0	5.7	7.0	6.0	6.0	6.0	5.7	6.0
GO-RUS20	5.7	5.3	6.3	6.7	6.3	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
GO-RUS21	5.7	4.7	7.0	6.7	7.0	6.0	6.0	6.0	6.3	5.7	5.7	6.0	6.0	6.0
GO-RUS22	5.3	4.3	6.3	6.7	8.3	5.7	6.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0
KARMA	5.0	5.0	6.7	5.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.7	6.0
NAI-PR5	4.3	5.0	7.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0
PISTON	6.0	4.7	7.0	6.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.0
PPG-PR 602	5.7	5.0	6.7	6.7	6.3	5.7	6.3	5.7	6.0	6.0	6.0	6.0	6.0	6.0
PPG-PR 610	4.3	5.0	6.3	7.3	6.7	6.0	6.0	6.0	6.3	5.7	6.0	6.0	5.7	6.0
PPG-PR 611	6.7	4.7	7.7	6.7	6.3	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
PPG-PR 637	2.3	4.3	7.7	6.3	4.7	5.7	6.0	5.7	6.7	6.0	6.0	6.0	5.7	6.0
PPG-PR 639	4.3	4.3	6.3	6.3	5.7	5.7	6.0	6.0	6.7	6.0	5.7	6.0	6.0	6.0
PPG-PR 642	4.7	4.3	6.7	6.7	5.7	5.7	6.0	6.0	6.3	5.7	6.0	6.0	6.0	6.0
PPG-PR 643	4.0	4.7	6.0	7.0	6.0	5.7	6.0	6.0	6.5	6.0	5.7	6.0	6.0	6.0
PPG-PR 647	4.3	4.3	7.3	7.0	4.7	6.7	6.0	6.0	6.7	6.0	5.3	6.0	5.7	6.0
PPG-PR 658	5.3	5.0	7.0	6.7	4.3	6.3	6.0	6.0	6.3	6.0	5.7	6.0	5.7	6.0
PPG-PR 663	5.7	5.0	7.0	7.0	6.3	6.0	6.0	6.0	6.3	5.7	6.0	5.7	6.0	6.0
PPG-PR 664	6.0	5.0	6.7	6.0	6.3	5.7	6.3	6.0	6.3	6.0	6.0	6.0	5.7	6.0
PPG-PR 665	5.7	4.7	7.0	7.7	6.0	5.7	6.0	6.0	6.3	5.7	6.0	6.0	6.0	6.0
PPG-PR 668	5.7	4.7	6.7	6.0	5.0	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
PST-214	6.3	5.0	6.3	8.3	6.7	6.0	6.0	6.0	6.3	6.0	6.0	6.0	5.7	6.0
PST-2BGL	6.7	5.3	6.3	5.7	6.3	6.0	6.3	5.7	6.3	5.3	6.0	6.0	6.0	6.0
PST-2EGY	4.3	4.7	6.7	8.7	8.0	5.7	6.0	6.3	6.0	6.0	6.0	6.0	6.0	6.0
PST-2GDS	6.0	5.0	6.0	7.3	6.7	6.0	6.0	6.0	6.7	6.0	5.7	6.0	5.7	6.0

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SPRING	DENSITY RATINGS			QUALITY RATINGS						MEAN	
				SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
QUASAR	7.7	5.0	7.3	6.0	6.0	6.0	6.0	6.0	6.7	6.0	5.7	6.0	6.0	6.0
SEPR-2013	6.0	5.3	6.0	6.3	5.3	6.0	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0
SGP4	3.3	4.7	7.0	6.0	5.7	6.0	6.0	5.7	6.7	6.0	5.7	6.0	6.0	6.0
TSC-CRS	5.0	5.0	6.0	7.0	5.3	5.7	6.3	6.0	6.3	5.7	6.0	5.7	6.0	6.0
ULTRA SPORT (PST-2HAF20)	6.3	4.7	7.0	7.0	7.3	5.7	6.0	6.0	6.3	6.0	6.0	6.0	5.7	6.0
LTP-NR	4.3	5.0	6.7	6.3	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.9
PVF-RPP2	4.3	4.7	7.0	5.7	5.7	5.7	6.0	6.0	6.3	6.0	5.7	6.0	5.7	5.9
BAR LP 22191	5.7	4.3	6.7	5.7	6.3	5.7	6.0	5.7	6.0	6.0	6.0	5.7	6.0	5.9
BAR LP 22262	3.7	4.7	6.3	5.0	6.3	5.7	6.0	5.7	6.3	6.0	5.7	6.0	5.7	5.9
BRIGHTSTAR SLT	5.7	4.7	6.3	6.0	6.7	5.7	5.7	6.0	6.0	5.7	6.0	6.0	6.0	5.9
DLF-PR-3730	6.0	4.7	5.3	8.0	7.0	5.3	6.0	5.7	6.3	5.7	6.0	6.0	6.0	5.9
DLF-PR-3736	6.0	4.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0	5.7	6.0	6.0	6.0	5.9
ELEKTRA GLR (PPG-PR 671)	6.3	5.3	6.3	6.7	7.0	6.0	6.0	5.7	6.0	5.7	6.0	6.0	5.7	5.9
HIGH OCTANE	5.0	5.0	5.0	6.3	7.0	5.3	6.0	5.7	6.0	6.0	6.0	6.0	6.0	5.9
PPG-PR 620	3.7	4.3	6.3	6.3	5.7	5.7	5.7	6.0	6.0	5.7	6.0	6.0	6.0	5.9
PPG-PR 662	6.3	5.0	6.0	7.0	6.3	6.0	6.0	6.0	6.0	5.3	6.0	6.0	6.0	5.9
PPG-PR 666	5.7	4.7	5.7	7.0	7.3	5.7	6.0	6.0	6.0	6.0	6.0	5.7	6.0	5.9
PPG-PR 670	4.7	5.0	7.0	7.0	6.7	5.7	6.0	6.0	6.0	6.0	6.0	6.0	5.7	5.9
PST-2ADS	4.3	4.0	6.7	6.3	6.7	6.0	6.0	5.7	6.3	5.7	6.0	5.7	5.7	5.9
PST-2SPF	7.3	5.7	6.0	6.3	5.3	6.0	6.0	6.0	6.3	5.0	6.0	6.0	6.0	5.9
PVF-SGS5	5.7	4.3	7.0	7.0	4.3	5.7	6.3	5.7	6.3	5.7	5.7	6.0	5.7	5.9
SE-DK	6.7	4.7	5.3	6.0	7.0	5.7	6.0	5.7	6.0	5.7	6.0	6.0	6.0	5.9
BY-PS2	4.7	4.3	6.3	6.7	6.3	5.3	5.7	6.0	6.0	6.0	5.7	6.0	6.0	5.8
BSG-PR22	7.7	5.0	5.3	5.3	4.7	5.7	5.7	5.7	6.0	5.7	5.3	6.0	6.0	5.8
CJF1R	4.3	4.7	7.0	6.3	6.0	5.3	6.0	6.0	6.0	6.0	5.7	6.0	5.7	5.8
DARK MATTER	6.0	5.0	5.7	6.3	5.3	5.3	6.0	5.7	6.0	5.7	6.0	6.0	6.0	5.8
DLF-PR-3729	3.7	4.3	4.3	8.3	6.7	5.3	5.7	5.7	6.0	6.0	5.7	6.0	6.0	5.8
GRAY EAGLE SLT (PST-2MEG)	5.3	4.7	6.3	5.7	5.3	5.7	6.0	5.3	6.3	5.7	5.7	5.3	6.0	5.8
MRSL-PR22	7.3	5.7	4.3	6.3	4.0	5.7	6.0	5.7	5.7	5.7	5.7	6.0	6.0	5.8
PPG-PR 606	6.7	5.3	5.0	6.3	5.0	5.3	6.0	6.0	6.0	5.7	5.7	6.0	6.0	5.8
PPG-PR 644	4.7	4.3	5.3	5.7	6.3	5.3	5.7	5.7	6.0	5.7	6.0	6.0	6.0	5.8
PPG-PR 667	6.0	5.0	5.3	7.3	5.3	5.7	6.0	5.7	6.0	5.7	6.0	6.0	5.7	5.8
PST-2E6	4.7	4.7	5.7	7.0	5.0	5.7	5.7	6.0	6.3	5.7	5.7	5.7	6.0	5.8
PST-2MES1	7.0	5.0	4.7	6.7	5.3	5.3	6.0	5.7	6.0	5.7	5.7	6.0	6.0	5.8
DLF-LGT-3066	4.0	4.7	3.7	5.0	4.7	5.0	5.7	6.0	6.3	5.3	6.0	5.3	6.0	5.7
LINN	3.0	3.0	4.0	6.7	6.7	5.0	5.3	5.3	6.0	6.0	6.0	6.0	6.0	5.7
LSD VALUE	3.2	1.0	5.6	4.3	9.4	2.4	1.3	2.1	1.9	1.1	1.9	0.7	1.4	0.8
C.V. (%)	29.0	10.5	23.7	18.5	28.7	10.0	5.3	7.3	7.6	5.7	6.4	4.1	5.7	3.0

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 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER					QUALITY RATINGS		PERCENT ESTABLISHMENT		
	APRIL	MAY	JULY	AUGUST	OCTOBER	NOVEMBER	OCT 2022	NOV 2022	4 WEEKS	7 WEEKS
PST-2DRG	78.0	92.0	72.0	62.3	66.7	71.3	4.3	4.3	52.3	73.7
GREENBACK	76.0	90.7	62.7	58.7	70.7	59.7	4.3	5.0	62.0	78.3
DLF-PR-3726	57.7	73.7	76.0	83.7	58.7	78.3	4.0	4.0	43.3	68.7
DLF-PR-3728	82.0	90.7	81.3	79.7	72.3	41.7	5.0	5.0	70.3	84.7
PPG-PR 646	84.7	83.7	75.0	68.0	68.3	26.0	4.0	5.0	52.0	84.7
PPG-PR 661	82.0	88.3	81.3	68.7	51.7	60.7	4.7	4.0	50.7	79.0
PS4	91.0	96.7	56.7	77.7	45.3	43.0	4.3	5.3	60.7	88.0
PST-2HFM	70.3	83.0	80.0	76.3	57.0	58.3	5.0	5.0	67.7	85.3
RPP3	69.7	84.7	71.7	67.7	60.0	58.7	4.7	5.3	60.0	85.7
HOMERUN LS	58.3	86.0	80.7	78.3	72.3	39.7	5.0	4.3	64.3	80.3
LTP-RPP4	72.0	84.7	65.0	67.7	66.0	45.7	4.3	5.0	46.0	84.7
RC20-020	64.3	81.7	69.7	71.0	57.0	48.3	4.3	4.7	56.0	79.0
SILETZ	77.3	89.3	75.0	68.3	61.7	72.3	5.3	5.3	69.7	85.0
STELLAR 4GL	76.0	90.0	74.0	67.0	55.0	39.0	5.0	6.0	70.3	90.7
20PR10	66.3	87.3	81.7	81.0	71.0	56.7	5.0	5.0	61.0	84.3
ALPHA CENTAURI	78.7	80.7	76.3	78.7	57.3	67.7	5.0	5.0	62.7	89.7
APS	72.7	81.0	78.3	73.7	64.3	56.0	4.7	4.3	65.3	85.3
BAR LP 22174	73.3	84.7	83.0	82.7	59.7	30.7	4.3	4.7	64.3	86.7
BAR LP 22256	72.7	95.3	54.3	70.3	83.3	55.3	4.0	4.7	44.0	70.0
BAR LP 22263	75.7	89.0	80.7	79.3	62.7	28.3	5.0	5.0	67.3	85.0
DLF-PR-3727	78.3	86.7	81.3	73.3	65.7	34.0	5.0	5.0	62.0	86.7
DLF-PR-3735	75.7	90.0	67.0	74.0	88.3	70.0	5.3	4.3	58.7	82.3
DLF-PR-3737	63.0	76.0	68.0	77.7	70.3	64.0	4.3	4.7	56.3	84.0
DLF-PR-3738	78.3	86.0	75.0	86.7	61.0	61.3	5.0	5.0	68.0	82.3
GO-RUS20	64.3	79.3	71.7	73.3	65.7	70.7	5.0	5.3	65.3	81.7
GO-RUS21	70.3	76.0	71.3	62.0	72.7	58.7	5.7	4.7	80.3	84.0
GO-RUS22	67.7	84.3	71.7	61.3	86.7	53.0	4.0	4.7	40.3	76.7
KARMA	71.0	87.3	63.0	72.7	66.0	54.3	5.0	5.0	56.3	85.7
NAI-PR5	68.3	83.7	63.7	68.7	64.7	63.3	4.3	4.3	51.3	73.3
PISTON	71.7	79.3	72.7	68.0	64.0	62.0	4.3	5.7	56.7	85.3
PPG-PR 602	67.7	88.7	73.7	78.7	62.7	44.7	4.3	5.0	59.0	75.3
PPG-PR 610	65.7	89.7	81.3	76.7	72.3	48.3	4.7	4.3	56.7	80.7
PPG-PR 611	77.7	84.7	77.0	91.7	65.7	45.3	4.7	4.7	59.7	86.7
PPG-PR 637	80.0	90.3	70.0	68.3	46.3	17.0	4.7	5.7	64.7	88.7
PPG-PR 639	64.7	82.7	67.7	79.7	58.0	47.3	3.7	5.0	50.0	81.0
PPG-PR 642	69.3	90.7	71.0	78.0	59.7	41.3	4.7	5.0	57.3	87.0
PPG-PR 643	61.7	90.0	74.3	83.3	61.0	47.0	4.7	4.0	57.7	70.7
PPG-PR 647	77.3	88.3	76.0	61.3	46.0	33.3	5.0	4.7	65.0	83.3
PPG-PR 658	72.7	88.0	71.7	78.0	41.3	47.7	4.7	4.7	54.3	80.0
PPG-PR 663	74.0	84.7	73.0	56.0	63.0	66.7	5.3	4.7	62.0	86.3
PPG-PR 664	68.7	79.7	65.3	68.3	62.3	34.3	5.0	5.0	69.7	89.3
PPG-PR 665	73.0	83.0	83.7	77.0	63.0	49.7	5.3	5.0	81.3	92.0
PPG-PR 668	68.7	79.0	67.7	69.3	46.3	56.0	5.3	5.0	79.7	89.7
PST-214	65.3	79.3	89.3	82.3	68.7	44.0	4.3	4.0	43.3	67.0
PST-2BGL	64.7	76.7	61.0	45.7	65.7	56.7	4.0	4.0	45.3	61.7
PST-2EGY	68.0	84.3	91.3	83.0	84.3	60.0	4.3	5.0	60.7	82.3
PST-2GDS	61.0	79.0	81.0	67.0	68.7	36.7	4.0	4.7	52.3	86.3

TABLE 6.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT AMES, IA 1/
2023 DATA

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

NAME	PERCENT GROUND COVER APRIL-NOVEMBER						QUALITY RATINGS PERCENT ESTABLISHMENT			
	APRIL	MAY	JULY	AUGUST	OCTOBER	NOV	OCT 2022	NOV 2022	4 WEEKS	7 WEEKS
QUASAR	78.7	82.7	65.3	71.0	62.3	44.0	5.0	5.3	53.3	89.3
SEPR-2013	64.3	78.0	68.0	53.0	54.7	71.7	4.7	5.0	60.7	77.7
SGP4	72.3	91.3	67.3	67.3	56.0	59.3	4.0	5.0	53.7	82.3
TSC-CRS	59.7	83.7	73.7	53.3	56.3	42.7	5.0	4.3	66.3	73.0
ULTRA SPORT (PST-2HAF20)	69.7	81.3	77.3	72.3	73.3	59.7	4.7	4.3	48.7	73.0
LTP-NR	67.0	85.0	67.3	66.7	69.3	37.3	4.3	5.0	54.3	86.0
PVF-RPP2	74.7	90.0	62.0	60.0	60.7	50.0	6.0	5.3	67.0	84.7
BAR LP 22191	67.3	70.0	61.0	78.3	65.7	45.7	3.7	5.0	55.7	82.0
BAR LP 22262	67.7	89.3	57.0	72.3	65.7	54.7	4.3	4.0	40.3	67.3
BRIGHTSTAR SLT	64.0	73.3	65.7	63.0	67.7	72.3	5.3	4.7	72.3	81.3
DLF-PR-3730	54.0	77.0	84.0	80.7	73.3	57.0	5.0	4.3	73.0	77.7
DLF-PR-3736	62.3	76.0	65.7	71.7	59.3	40.7	4.7	4.7	58.0	77.0
ELEKTRA GLR (PPG-PR 671)	63.3	73.7	75.0	65.7	74.0	52.0	6.0	5.3	78.3	89.3
HIGH OCTANE	51.0	85.7	69.3	72.0	71.0	58.0	5.0	4.7	60.3	66.7
PPG-PR 620	62.0	81.3	68.3	74.7	60.3	54.7	4.3	4.7	49.0	81.3
PPG-PR 662	62.0	78.0	75.0	73.3	66.0	72.0	4.7	5.0	52.3	82.0
PPG-PR 666	56.0	71.7	75.7	76.7	71.7	46.0	4.3	4.7	59.3	84.0
PPG-PR 670	70.0	87.0	74.7	78.7	65.7	63.3	5.0	5.7	73.0	92.0
PST-2ADS	66.0	86.7	69.7	72.0	69.7	51.7	3.7	4.7	46.7	71.7
PST-2SPF	57.3	73.3	70.7	53.3	56.3	66.0	4.3	4.7	58.0	74.0
PVF-SGS5	71.0	78.0	78.0	66.0	44.0	42.0	4.7	5.0	66.3	84.7
SE-DK	53.0	77.7	66.3	60.7	72.3	24.3	5.3	5.0	78.3	87.0
BY-PS2	62.7	71.7	72.0	74.3	64.3	47.0	4.3	5.0	50.0	77.7
BSG-PR22	53.3	58.7	59.0	50.7	44.0	39.0	5.3	4.7	70.7	84.0
CJP1R	71.0	88.0	74.3	75.3	57.3	49.0	4.7	4.3	55.7	73.7
DARK MATTER	55.0	77.7	69.7	63.0	54.0	53.7	5.0	5.0	59.3	77.0
DLF-PR-3729	42.3	70.7	91.0	81.0	67.7	76.3	4.7	4.0	58.3	73.3
GRAY EAGLE SLT (PST-2MEG)	62.0	76.0	64.7	58.0	53.7	46.0	4.0	4.3	37.7	70.0
MRS�-PR22	40.7	64.0	68.3	42.7	39.0	57.7	4.3	5.0	55.0	62.7
PPG-PR 606	49.3	71.3	65.3	67.0	49.7	42.0	4.3	4.0	40.3	54.3
PPG-PR 644	49.7	68.7	65.0	64.3	64.3	47.0	5.7	4.0	66.7	80.0
PPG-PR 667	52.0	72.7	78.0	78.7	51.0	43.3	5.0	5.3	71.3	86.7
PST-2E6	60.3	75.7	77.7	64.0	50.0	64.0	4.3	5.7	52.0	86.3
PST-2MES1	42.3	54.0	71.3	62.3	54.0	49.3	5.0	5.3	68.0	89.7
DLF-LGT-3066	35.7	55.7	54.0	53.0	45.0	53.7	4.3	4.0	38.7	58.0
LINN	37.7	60.7	76.0	62.0	70.7	71.0	4.3	5.0	62.7	86.3
LSD VALUE	72.8	62.2	48.8	34.4	117.9	73.6	3.5	3.9	53.0	75.8
C.V. (%)	27.6	18.4	18.0	19.2	33.5	39.8	18.5	17.5	26.9	18.8

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT WEST LAFAYETTE, IN 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	DENSITY RATINGS		SEEDHEAD	POA ANNUA	QUALITY					QUALITY RATINGS			MEAN	
			SPRING	SUMMER			NOV 2022	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
DLF-PR-3726	6.0	5.7	5.3	7.3	7.0	7.3	6.7	6.7	6.7	6.3	6.3	7.0	6.3	6.0	6.0	6.4
DLF-PR-3736	7.0	5.7	6.0	7.0	6.3	7.3	5.3	7.3	6.3	6.0	6.7	6.3	6.3	6.3	5.7	6.4
NAI-PR5	5.7	7.3	4.7	7.0	7.3	7.3	5.7	6.7	5.0	4.7	5.7	7.0	7.0	6.7	7.0	6.2
PPG-PR 637	6.3	4.7	5.3	5.3	5.0	7.3	5.0	6.7	6.3	5.7	5.0	5.3	7.0	6.3	6.3	6.1
PPG-PR 661	6.3	5.7	5.7	6.3	6.3	7.3	6.7	7.0	6.0	5.7	5.3	5.3	6.7	6.3	6.3	6.1
PPG-PR 668	7.3	5.3	5.7	6.0	6.0	7.7	6.3	7.0	7.0	6.7	5.0	6.0	6.0	5.7	5.7	6.1
PPG-PR 670	7.0	5.0	6.0	6.7	6.7	7.3	5.7	6.3	6.7	6.0	5.7	6.0	6.0	5.7	6.3	6.1
ALPHA CENTAURI	6.7	5.3	6.0	6.7	6.3	6.7	6.0	6.7	6.3	6.3	5.7	5.7	5.7	6.3	5.7	6.0
APS	6.0	6.0	5.7	6.3	6.0	8.0	6.7	6.3	6.0	5.0	5.3	5.7	7.3	6.0	6.3	6.0
DLF-PR-3728	6.0	6.0	5.0	5.3	6.0	7.3	7.0	6.0	5.7	5.3	5.3	5.7	7.7	6.0	6.7	6.0
DLF-PR-3738	6.7	6.0	5.3	6.3	6.7	8.0	6.3	6.3	5.7	5.0	5.0	6.0	7.0	6.7	6.3	6.0
PPG-PR 658	6.7	5.3	6.0	6.0	6.0	7.7	6.3	7.0	6.3	5.3	5.0	5.7	6.7	6.3	5.7	6.0
PPG-PR 664	7.0	5.3	6.3	6.0	7.0	5.3	6.0	6.3	7.0	6.3	5.3	6.0	6.7	5.0	5.3	6.0
PVF-SGS5	6.0	5.7	5.0	6.3	6.0	7.7	6.0	6.0	5.7	4.7	5.3	5.7	7.3	6.3	6.7	6.0
CJP1R	5.7	5.3	5.0	7.3	6.3	7.3	6.3	6.7	5.3	5.0	5.7	5.7	6.3	6.3	6.3	5.9
DLF-PR-3727	6.3	5.3	5.0	6.7	6.7	6.3	6.7	6.3	6.0	6.0	6.0	6.7	5.7	5.7	5.0	5.9
GO-RUS21	6.3	6.7	5.3	6.3	6.7	7.3	7.0	6.0	6.0	6.0	5.7	6.7	6.0	5.0	5.7	5.9
PISTON	6.3	5.7	5.7	5.3	5.0	8.0	6.3	6.7	6.0	5.3	5.0	5.0	6.7	6.3	6.3	5.9
PPG-PR 602	6.7	5.3	6.3	6.3	6.0	7.0	6.7	6.3	6.3	5.7	5.7	5.7	5.3	5.7	6.3	5.9
PPG-PR 663	6.3	5.3	6.0	5.7	6.3	6.3	6.0	6.0	6.3	6.3	4.7	6.0	7.3	5.3	5.3	5.9
PPG-PR 665	6.0	5.3	5.0	5.7	6.0	7.3	5.3	5.7	5.7	5.7	5.0	6.0	6.7	6.0	6.3	5.9
PPG-PR 666	6.7	5.0	6.0	6.0	5.7	7.0	6.0	6.7	6.7	6.0	5.3	5.3	5.7	5.7	6.0	5.9
SGP4	6.3	5.7	5.7	6.0	5.7	7.7	5.7	5.7	6.0	6.0	5.3	5.7	6.0	6.3	6.3	5.9
STELLAR 4GL	6.0	6.7	5.3	5.7	5.3	6.7	7.3	6.3	6.0	6.0	5.3	5.0	6.0	5.7	5.7	5.8
DLF-PR-3729	6.0	6.7	4.3	5.0	5.7	7.3	6.0	5.3	6.0	5.0	4.3	5.0	7.0	6.7	6.7	5.8
PPG-PR 606	7.0	4.7	6.3	6.0	6.0	5.7	6.0	7.0	7.0	6.7	5.0	5.7	5.0	5.0	5.3	5.8
PPG-PR 647	5.7	6.3	5.0	6.7	5.7	7.3	6.3	6.0	5.3	5.0	4.7	6.3	6.3	6.3	6.3	5.8
PPG-PR 667	6.7	5.7	5.0	6.0	5.7	7.7	6.3	5.7	6.7	6.0	5.0	5.7	5.3	6.0	5.7	5.8
ULTRA SPORT (PST-2HAF20)	7.0	6.3	5.7	5.7	5.3	5.0	6.3	6.3	7.0	6.7	4.7	5.3	6.0	5.3	4.7	5.8
LTP-NR	6.0	7.3	5.7	5.7	5.0	5.7	7.0	6.7	6.0	5.3	5.3	5.0	6.0	6.0	5.3	5.7
DLF-PR-3730	6.7	5.3	6.3	6.3	5.7	6.7	5.7	6.0	6.0	5.3	5.0	5.3	6.3	6.0	5.3	5.7
PPG-PR 639	7.0	5.3	5.3	5.7	5.3	6.0	6.0	6.0	6.3	6.3	4.7	5.3	6.0	5.3	5.7	5.7
PPG-PR 662	7.3	5.3	6.0	6.0	6.3	6.3	5.3	5.3	6.0	6.7	5.3	5.7	5.7	5.7	5.3	5.7
PST-214	7.3	5.7	5.7	5.7	5.3	6.3	6.0	7.0	6.0	5.7	5.0	6.0	5.3	5.3	5.0	5.7
SILETZ	6.7	6.3	4.7	5.7	5.3	7.0	6.3	6.3	5.7	4.7	4.3	5.3	6.3	6.0	6.3	5.6
BAR LP 22174	4.7	7.7	6.0	5.3	5.3	7.0	6.7	6.3	6.0	5.3	5.3	4.7	6.0	6.0	5.3	5.6
DLF-LGT-3066	5.7	5.7	5.3	5.7	5.7	7.3	6.0	6.0	6.7	5.7	5.0	6.0	5.3	4.7	5.3	5.6
GRAY EAGLE SLT (PST-2MEG)	7.0	6.0	5.3	5.7	6.3	6.3	7.0	5.3	6.3	6.0	5.3	5.3	5.3	5.7	5.3	5.6
PPG-PR 611	7.0	6.3	4.3	5.7	5.7	6.7	6.7	5.3	6.3	6.3	5.0	5.3	5.7	5.7	5.3	5.6
PST-2BGL	6.7	5.3	5.7	5.0	4.7	6.3	6.7	6.7	6.3	5.3	5.0	5.0	5.3	5.7	5.3	5.6
PVF-RPP2	5.7	5.7	5.0	5.3	6.0	6.0	6.3	6.3	5.3	4.7	4.7	5.0	6.7	5.7	5.7	5.5
BAR LP 22263	6.0	5.3	5.3	6.7	6.0	6.0	6.0	5.7	5.3	5.3	6.0	5.7	5.7	5.3	5.0	5.5
DLF-PR-3737	7.0	5.3	5.3	6.7	5.7	7.0	6.0	6.3	5.7	5.7	5.7	5.3	5.0	5.3	5.3	5.5
PPG-PR 642	5.3	5.3	5.3	5.7	6.3	7.7	6.0	5.7	5.0	5.3	4.7	5.7	6.3	5.7	5.3	5.5
PPG-PR 643	5.7	5.7	5.3	5.7	4.7	6.7	6.0	5.7	5.0	4.7	5.3	5.3	6.3	6.0	6.0	5.5
PPG-PR 646	5.7	4.7	6.0	5.7	5.0	6.7	6.0	6.0	5.3	5.0	4.7	4.7	6.3	6.0	6.0	5.5
PS4	6.7	4.7	5.0	5.7	5.0	7.7	5.3	6.0	5.7	4.7	4.0	5.0	6.3	6.0	6.0	5.5

TABLE 7.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT WEST LAFAYETTE, IN 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	DENSITY SPRING	RATINGS			POA ANNUA	QUALITY							QUALITY RATINGS			
				SUMMER	SEEDHEAD			NOV 2022	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN	
PST-2E6	5.3	5.7	5.7	6.3	5.7	5.7	6.3	5.7	5.7	5.0	6.0	5.7	5.3	5.3	5.3	5.5		
QUASAR	5.7	6.7	4.7	5.7	5.3	7.3	6.7	6.0	4.3	4.7	5.0	5.7	6.0	6.3	6.3	5.5		
RPP3	5.7	5.7	6.0	5.3	4.7	7.0	6.3	6.3	4.7	4.3	4.7	5.0	6.0	6.3	6.3	5.5		
RC20-020	6.7	5.7	6.0	6.0	4.0	6.0	6.7	6.7	5.3	5.7	4.7	5.0	5.3	5.3	5.3	5.4		
20PR10	5.7	6.7	5.3	6.0	6.0	7.3	6.3	5.7	5.0	5.0	5.0	5.3	6.3	6.0	5.0	5.4		
BAR LP 22191	5.7	5.7	7.0	6.0	6.3	6.7	6.7	5.7	5.7	5.7	5.0	5.3	5.3	5.7	5.0	5.4		
DLF-PR-3735	6.3	4.0	6.3	6.7	6.0	6.0	5.0	6.0	5.0	4.3	5.0	6.0	6.3	5.0	5.7	5.4		
ELEKTRA GLR (PPG-PR 671)	7.0	5.7	4.7	5.3	5.0	6.0	6.3	5.3	7.0	6.0	4.7	5.0	5.0	5.3	5.0	5.4		
GO-RUS20	5.0	6.3	4.3	5.0	6.0	7.3	6.3	5.3	5.3	4.7	5.7	5.7	5.7	5.0	5.7	5.4		
PPG-PR 620	6.3	5.3	4.3	6.0	6.0	6.0	6.3	5.3	5.7	5.0	4.7	5.0	6.7	5.7	5.3	5.4		
PST-2ADS	5.0	5.3	5.0	6.3	7.0	5.7	6.3	5.3	4.0	4.3	5.7	6.3	6.3	5.3	6.0	5.4		
PST-2EGY	6.0	5.3	5.3	6.3	5.3	6.7	6.7	6.3	5.0	5.3	5.0	5.3	5.3	5.0	5.7	5.4		
PST-2HFM	6.7	5.7	5.7	5.3	5.0	6.0	6.7	6.0	6.7	6.0	4.3	5.0	5.7	5.0	4.7	5.4		
SE-DK	7.3	8.0	4.3	4.7	5.7	5.3	7.7	5.3	6.7	6.3	5.3	5.0	4.3	4.7	5.3	5.4		
HOMERUN LS	6.0	6.7	5.7	5.0	5.0	6.3	7.3	7.0	5.3	5.0	4.7	4.7	5.0	5.3	5.3	5.3		
LTP-RPP4	5.7	5.3	5.7	6.3	5.7	5.7	6.7	5.0	4.7	4.3	5.3	5.7	6.0	5.7	6.0	5.3		
GO-RUS22	6.7	6.7	5.3	5.7	5.3	6.3	7.3	6.0	6.0	5.3	4.7	5.0	4.7	5.0	5.3	5.3		
PPG-PR 610	7.3	4.7	6.0	5.7	5.3	6.0	5.7	5.7	5.7	5.3	4.0	5.3	6.0	5.3	5.0	5.3		
PPG-PR 644	6.7	5.0	5.3	5.7	4.7	6.0	5.7	6.0	5.3	5.0	4.3	4.7	6.3	5.7	5.3	5.3		
PST-2GDS	7.0	5.7	5.3	4.7	4.7	5.3	6.3	5.7	6.7	5.7	4.3	4.0	4.7	5.3	5.0	5.2		
BY-PS2	5.3	4.7	6.3	5.3	5.3	6.0	5.7	6.0	4.7	4.3	4.3	5.3	5.7	5.0	5.3	5.1		
BAR LP 22256	5.7	5.0	6.0	5.7	5.7	6.3	5.7	5.3	5.3	5.3	5.7	5.0	5.0	4.3	5.0	5.1		
HIGH OCTANE	5.7	5.0	5.7	4.7	4.7	6.0	6.0	6.7	5.0	4.3	4.0	4.7	5.3	5.3	5.7	5.1		
MRS�-PR22	8.0	6.7	4.0	5.0	5.0	4.3	7.7	6.0	6.7	6.3	4.3	4.7	4.3	4.0	4.7	5.1		
PST-2MES1	6.3	6.0	4.0	6.0	5.3	4.3	7.0	5.0	5.7	5.3	4.7	5.3	5.7	4.3	5.0	5.1		
TSC-CRS	7.0	7.0	3.7	5.0	5.3	5.3	7.7	6.0	6.0	5.7	5.0	4.3	4.3	4.7	4.7	5.1		
BSG-PR22	8.0	6.3	3.7	5.7	5.0	5.0	7.0	5.0	6.7	5.7	5.0	5.0	4.0	4.3	4.3	5.0		
PST-2DRG	7.0	5.7	4.7	5.0	4.7	5.0	6.7	6.0	5.3	5.3	4.7	5.0	4.0	4.7	5.3	5.0		
BAR LP 22262	6.0	4.3	5.3	6.3	6.7	5.7	5.7	5.3	5.0	5.3	4.3	6.0	4.7	4.3	4.3	4.9		
DARK MATTER	8.0	6.0	4.3	5.0	4.7	5.3	6.0	5.3	6.3	5.0	4.3	4.7	4.3	4.7	4.7	4.9		
KARMA	6.0	6.0	6.0	5.3	4.0	6.7	6.7	6.7	5.3	4.7	5.0	4.3	4.0	4.3	4.7	4.9		
GREENBACK	7.3	6.7	4.3	4.3	4.7	4.7	7.7	5.3	5.7	5.7	4.0	4.0	4.3	4.3	4.0	4.7		
BRIGHTSTAR SLT	5.3	6.0	6.3	4.7	4.3	5.3	6.0	6.7	4.7	5.0	4.7	4.0	4.3	4.7	3.7	4.7		
SEPR-2013	6.7	5.3	5.3	5.0	4.0	4.3	5.3	5.7	5.3	4.7	3.7	4.3	4.3	5.0	4.0	4.6		
PST-2SPF	7.7	5.0	3.3	5.0	4.7	4.3	5.3	3.7	5.0	5.0	4.3	4.3	4.3	4.3	3.7	4.3		
LINN	3.0	9.0	2.7	3.7	4.7	5.7	4.0	4.0	3.3	4.3	3.0	3.3	3.0	3.0	3.0	3.4		
LSD VALUE	0.9	1.7	1.8	1.6	1.3	2.0	1.1	1.3	0.9	0.9	1.6	1.3	1.1	1.5	1.2	0.6		
C.V. (%)	8.8	15.8	17.1	13.8	13.6	16.4	10.2	11.7	10.2	10.5	15.1	13.3	11.7	14.3	12.9	6.3		

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 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT WEST LAFAYETTE (FAIRWAY), IN 1/
2023 DATA

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

NAME	DOLLAR	POA ANNUA	POA ANNUA	QUALITY RATINGS									MEAN
	SPOT	MAY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
DLF-PR-3726	6.3	4.7	5.7	5.7	6.0	5.3	5.7	6.0	6.0	6.3	6.0	5.9	
HOMERUN LS	5.0	5.0	5.7	5.3	5.7	5.0	5.7	5.3	5.7	6.3	7.0	5.8	
DLF-PR-3730	5.7	5.0	6.3	5.7	6.0	5.3	5.7	5.3	6.0	6.3	6.0	5.8	
PPG-PR 665	6.7	5.7	6.3	5.3	6.0	5.3	6.0	5.7	5.7	6.3	6.3	5.8	
DLF-PR-3727	6.0	6.0	7.0	5.7	5.3	5.0	5.7	5.7	5.7	6.7	6.0	5.7	
DLF-PR-3738	7.0	5.3	5.3	5.7	6.0	4.7	5.7	5.3	5.7	6.7	6.0	5.7	
GO-RUS21	6.0	5.3	6.7	5.3	5.7	5.0	5.7	5.3	6.0	6.3	6.3	5.7	
PPG-PR 662	6.0	5.0	6.3	5.7	6.3	5.0	5.0	5.7	5.7	6.0	6.0	5.7	
PPG-PR 666	6.0	5.0	5.3	5.3	5.7	5.0	5.0	5.7	5.7	6.3	6.7	5.7	
PPG-PR 668	5.7	5.7	6.0	5.3	6.0	5.3	6.0	5.3	5.7	6.3	5.3	5.7	
PPG-PR 670	6.0	5.3	5.7	5.0	5.7	5.0	6.0	5.3	5.7	6.7	6.3	5.7	
SILETZ	7.3	5.3	6.0	6.0	5.7	4.7	5.7	5.3	5.3	6.3	6.0	5.6	
APS	6.3	5.0	6.0	5.3	5.0	5.0	5.7	5.3	5.7	6.3	5.7	5.5	
DLF-PR-3728	6.0	5.7	5.7	6.0	6.0	5.3	5.3	4.7	5.3	6.0	5.7	5.5	
DLF-PR-3736	5.3	5.0	5.7	5.7	5.7	5.7	5.3	4.7	5.3	6.0	5.3	5.5	
20PR10	6.0	5.7	6.0	5.3	5.7	4.7	5.7	5.0	5.3	6.3	5.0	5.4	
ALPHA CENTAURI	6.7	5.7	5.3	5.3	6.0	5.3	5.7	5.0	4.7	5.7	5.7	5.4	
BRIGHTSTAR SLT	5.0	5.0	6.0	5.3	4.7	4.7	6.0	5.0	5.7	5.7	6.0	5.4	
GO-RUS20	5.7	5.3	6.3	5.3	6.0	5.0	5.7	4.7	5.3	5.3	6.0	5.4	
PPG-PR 664	7.0	5.0	5.3	5.3	5.3	4.3	5.7	5.3	5.3	6.3	5.7	5.4	
LTP-RPP4	5.3	4.3	5.0	5.3	5.0	5.0	5.0	4.7	5.0	6.0	6.0	5.3	
BAR LP 22174	5.0	5.0	5.7	5.7	5.0	4.3	5.0	5.0	5.7	6.0	5.7	5.3	
BAR LP 22191	5.7	4.7	4.7	5.0	5.7	5.0	5.3	4.7	5.3	5.3	5.7	5.3	
DLF-PR-3729	5.3	5.0	6.0	5.3	5.0	5.0	5.3	4.7	4.7	6.0	6.0	5.3	
PPG-PR 637	7.0	5.3	5.7	5.0	6.0	4.7	5.0	4.7	5.3	5.3	6.3	5.3	
PST-2ADS	5.3	5.3	5.0	5.3	5.3	4.7	5.0	4.3	5.7	6.3	5.3	5.3	
PST-2BGL	4.7	5.0	5.7	5.0	5.0	5.0	5.0	5.0	5.3	6.0	6.3	5.3	
PST-2EGY	5.3	4.7	5.7	5.0	5.0	4.7	5.7	5.0	5.3	6.0	5.3	5.3	
PST-2MES1	6.0	5.0	5.7	5.3	5.0	5.0	5.3	4.7	5.3	5.7	6.0	5.3	
QUASAR	6.3	5.3	6.0	5.3	5.3	4.7	5.3	5.0	4.7	6.0	5.7	5.3	
PPG-PR 610	6.7	5.0	5.3	5.3	5.3	4.7	5.0	5.0	5.0	5.7	5.7	5.2	
PPG-PR 611	6.3	4.7	5.0	5.3	6.0	4.3	5.0	5.3	5.3	5.0	5.3	5.2	
PPG-PR 642	6.7	4.3	5.0	5.0	5.7	4.3	5.0	4.7	5.0	5.3	6.3	5.2	
PPG-PR 663	6.0	4.3	5.3	5.0	5.3	4.7	5.0	4.7	5.3	5.7	5.7	5.2	
PS4	5.3	5.0	4.7	5.3	5.7	4.7	5.3	5.0	4.3	5.3	5.7	5.2	
PST-214	5.3	4.7	4.7	5.3	5.7	5.0	5.3	4.3	5.0	5.3	5.3	5.2	
PST-2GDS	5.3	5.0	5.7	5.7	5.0	4.7	5.0	4.7	5.7	5.7	5.0	5.2	
SGP4	6.0	4.3	4.7	5.3	5.0	5.0	4.7	5.0	4.7	6.3	5.7	5.2	
BY-PS2	5.7	5.0	5.0	5.3	5.0	4.7	5.3	4.7	4.7	5.7	5.7	5.1	
RC20-020	5.3	6.0	5.3	5.0	4.7	4.0	5.3	5.0	4.7	5.7	6.7	5.1	
ELEKTRA GLR (PPG-PR 671)	6.0	4.7	5.0	5.0	5.3	4.7	5.3	5.0	5.0	5.3	5.3	5.1	
PPG-PR 606	6.3	5.0	5.0	5.0	5.7	4.7	4.7	5.0	4.7	5.3	5.7	5.1	
PPG-PR 639	6.0	4.7	5.3	4.7	5.7	5.3	4.7	4.7	5.0	5.0	5.7	5.1	
DLF-PR-3737	6.3	4.3	5.3	5.7	5.3	4.7	5.3	4.3	4.3	5.0	5.0	5.0	
GO-RUS22	5.3	5.0	5.0	5.0	5.0	4.3	4.7	4.7	5.0	5.7	6.0	5.0	
KARMA	5.7	5.7	5.0	5.7	5.3	3.7	5.0	5.0	5.0	5.3	5.3	5.0	
PPG-PR 658	6.3	5.0	4.7	5.3	5.3	4.3	5.0	5.0	5.0	5.7	4.7	5.0	

TABLE 8.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT WEST LAFAYETTE (FAIRWAY), IN 1/
2023 DATA

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

NAME	DOLLAR SPOT	POA ANNUA		QUALITY RATINGS								
		MAY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
PPG-PR 667	5.3	4.3	5.7	5.3	4.3	4.3	4.7	5.0	5.0	5.7	6.0	5.0
PVF-SGS5	6.3	5.0	5.3	5.0	4.7	4.3	5.0	4.7	5.3	5.3	5.7	5.0
RPP3	5.3	5.0	4.3	5.0	4.7	5.3	5.0	4.7	4.7	4.7	5.7	5.0
PVF-RPP2	5.3	4.7	4.3	5.3	4.7	4.3	4.7	4.3	5.3	5.7	5.0	4.9
DLF-LGT-3066	6.0	5.0	4.3	4.7	5.3	5.0	4.7	4.7	5.0	5.0	5.0	4.9
GRAY EAGLE SLT (PST-2MEG)	6.0	5.0	4.7	5.3	4.7	4.7	4.3	4.3	5.0	5.0	5.7	4.9
HIGH OCTANE	6.3	5.0	4.3	5.3	4.7	4.0	4.7	4.7	5.3	5.7	4.7	4.9
NAI-PR5	6.0	5.0	5.3	5.0	4.3	4.0	5.0	5.0	4.7	5.7	5.3	4.9
PISTON	5.0	4.0	4.7	5.0	5.0	4.7	4.7	4.3	4.7	6.0	5.0	4.9
PST-2DRG	4.7	4.7	5.0	4.7	5.0	4.7	5.0	4.7	4.3	5.7	5.3	4.9
GREENBACK	5.3	4.7	4.7	5.0	4.7	5.0	4.7	4.3	4.3	5.0	5.7	4.8
LTP-NR	5.0	5.0	4.7	5.0	4.7	4.3	5.0	4.0	4.3	5.0	5.7	4.8
STELLAR 4GL	5.3	5.0	5.0	4.7	4.7	4.0	5.0	5.0	5.0	5.3	5.0	4.8
DARK MATTER	5.0	4.3	4.0	5.3	5.0	4.7	4.7	4.3	4.7	5.0	5.0	4.8
PPG-PR 602	5.7	4.3	4.3	4.7	5.3	4.3	4.7	4.3	4.7	5.3	5.3	4.8
PPG-PR 647	5.7	4.7	4.7	4.7	5.3	4.3	4.7	4.3	4.7	5.7	4.3	4.8
PPG-PR 661	6.3	4.3	4.7	5.0	4.7	4.3	4.7	4.7	5.7	4.7	5.0	4.8
PST-2HFM	5.0	4.3	5.0	4.7	5.0	4.3	5.0	4.3	5.0	5.0	5.0	4.8
ULTRA SPORT (PST-2HAF20)	5.7	4.3	5.0	4.7	5.0	4.7	4.7	4.7	4.7	5.3	5.0	4.8
BAR LP 22256	4.7	5.0	5.0	5.0	5.3	4.7	4.3	4.0	4.7	4.7	5.0	4.7
BAR LP 22262	5.0	5.0	5.0	5.3	5.0	4.3	4.3	4.0	4.7	4.7	5.3	4.7
PPG-PR 620	5.7	4.3	4.3	5.0	4.7	4.0	4.7	4.0	5.0	5.0	5.0	4.7
PPG-PR 643	5.7	4.3	4.7	5.0	4.3	4.0	4.7	4.3	5.0	5.0	5.3	4.7
PST-2E6	5.7	4.7	4.3	4.7	4.3	4.3	5.0	4.7	4.3	5.3	4.7	4.7
DLF-PR-3735	5.7	5.0	4.3	5.3	5.0	4.3	4.3	4.3	4.3	4.7	4.3	4.6
PPG-PR 646	5.3	4.3	4.3	5.0	4.7	3.3	5.0	4.7	4.0	5.3	5.0	4.6
CJP1R	5.0	4.7	3.7	4.7	4.7	4.0	4.3	4.7	4.7	4.7	4.7	4.5
MRS�-PR22	5.0	4.7	3.7	4.7	4.7	3.7	4.3	4.0	4.3	5.0	5.0	4.5
PPG-PR 644	5.3	4.3	4.0	4.7	4.7	4.0	4.3	4.0	4.3	5.0	5.0	4.5
TSC-CRS	4.3	5.0	4.0	4.3	5.0	4.3	4.3	4.0	4.3	4.7	5.0	4.5
BSG-PR22	4.3	4.3	4.3	4.3	4.3	4.7	4.7	4.0	4.3	4.7	4.3	4.4
SEPR-2013	4.3	4.7	3.7	4.7	5.3	4.3	4.0	4.0	4.0	4.3	4.3	4.4
SE-DK	4.3	4.0	3.7	4.3	4.3	4.3	4.0	4.3	4.3	4.3	4.7	4.3
BAR LP 22263	4.7	4.0	3.3	4.3	4.0	3.7	4.3	3.7	4.0	4.7	4.7	4.2
PST-2SPF	4.7	3.3	3.3	4.7	4.7	3.7	4.0	3.0	4.3	4.0	4.3	4.1
LINN	4.7	5.3	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.3	3.7	3.1
LSD VALUE	1.6	3.4	1.9	1.5	1.5	1.4	1.8	1.6	1.4	2.0	2.9	1.0
C.V. (%)	14.2	16.9	18.5	12.1	13.8	14.1	15.0	15.3	13.6	15.8	17.5	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.

TABLE 9.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2023 DATA

NAME	PERCENT ESTABLISHMENT	WEAR TOLERANCE RATINGS					QUALITY RATINGS						MEAN
		MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
BY-PS2	50.0	5.3	5.7	5.7	6.3	6.3	6.7	6.7	6.3	6.0	6.7	6.0	6.4
LTP-RPP4	56.7	5.3	5.3	5.0	6.3	5.7	6.0	6.3	6.7	7.0	6.7	5.7	6.3
PPG-PR 662	56.7	5.3	5.3	4.7	6.7	6.7	6.7	5.7	6.7	6.3	6.3	5.7	6.3
PVF-RPP2	53.3	5.3	5.7	5.3	6.0	6.3	6.3	7.0	5.7	6.0	6.0	6.0	6.2
APS	50.0	5.3	5.3	5.0	6.3	5.7	6.3	6.3	6.7	6.3	6.3	5.3	6.2
PPG-PR 606	53.3	6.3	6.0	5.7	6.3	6.0	6.3	5.7	6.3	6.3	6.7	6.0	6.2
PPG-PR 647	46.7	5.7	5.3	5.7	6.0	6.0	6.0	6.3	6.3	6.7	6.0	6.0	6.2
PPG-PR 661	60.0	5.7	5.3	5.0	6.0	5.7	6.3	6.7	6.7	6.0	6.3	6.0	6.2
PPG-PR 664	56.7	6.0	5.3	5.3	7.0	6.3	6.7	6.0	6.3	5.7	6.0	5.3	6.2
SILETZ	63.3	5.3	4.7	5.0	6.3	6.7	5.7	6.7	6.3	6.0	6.0	5.3	6.1
PPG-PR 644	50.0	4.7	5.3	5.0	6.7	6.3	6.0	6.0	6.0	6.0	6.3	5.3	6.1
PST-2ADS	53.3	5.0	4.7	4.7	6.0	6.0	7.0	6.0	6.3	6.0	6.3	5.0	6.1
LTP-NR	53.3	5.0	5.3	5.0	6.7	6.3	6.3	6.3	5.3	5.7	5.7	5.3	6.0
STELLAR 4GL	53.3	5.0	4.7	4.7	6.0	6.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0
BSG-PR22	63.3	5.3	5.7	5.7	6.3	5.7	6.0	6.0	6.0	6.3	6.0	6.0	6.0
ELEKTRA GLR (PPG-PR 671)	56.7	5.0	5.0	4.7	6.0	6.0	6.3	5.7	6.0	6.3	6.0	5.3	6.0
PPG-PR 637	43.3	5.3	4.7	5.0	5.7	5.7	6.7	6.0	6.3	6.3	6.7	5.0	6.0
PPG-PR 643	60.0	5.7	5.0	5.3	6.3	6.0	6.0	6.3	6.0	6.3	6.0	5.3	6.0
PPG-PR 663	53.3	5.7	5.0	5.0	6.7	6.3	6.3	6.3	6.0	6.0	5.7	5.0	6.0
PPG-PR 670	46.7	5.3	5.0	5.0	6.7	6.0	6.0	6.0	6.7	6.0	6.0	5.0	6.0
PVF-SGS5	50.0	4.7	4.7	4.3	6.7	6.3	6.3	5.7	5.7	5.3	6.3	5.3	6.0
SE-DK	66.7	4.7	4.3	4.7	6.7	5.7	6.7	6.3	5.3	5.7	5.7	6.0	6.0
BAR LP 22191	56.7	4.0	3.7	4.0	6.3	6.7	6.0	5.3	5.7	6.3	5.7	5.3	5.9
DLF-PR-3726	56.7	5.0	5.0	4.7	6.0	6.0	5.3	5.3	6.0	6.7	6.7	5.0	5.9
GO-RUS21	63.3	5.0	4.3	4.3	6.3	6.3	6.0	6.0	6.0	6.0	5.7	5.0	5.9
NAI-PR5	60.0	6.0	5.0	5.7	5.7	6.0	6.0	6.7	5.7	5.7	5.7	5.7	5.9
PPG-PR 665	46.7	4.7	5.0	4.7	6.0	5.7	6.0	5.7	6.3	6.0	6.3	5.3	5.9
PST-2EGY	60.0	4.7	5.0	4.7	6.0	6.0	6.0	6.3	5.3	6.3	6.0	5.3	5.9
GREENBACK	66.7	5.0	5.3	5.3	6.0	5.7	5.7	6.0	5.7	5.7	6.3	5.7	5.8
20PR10	63.3	5.3	5.3	5.3	6.3	6.3	5.7	6.0	6.0	5.7	6.0	4.7	5.8
DLF-PR-3728	50.0	6.0	5.7	5.7	6.0	5.7	5.7	5.3	5.7	6.3	6.3	5.7	5.8
PISTON	46.7	5.3	5.3	4.7	5.7	5.3	5.7	6.0	6.3	6.0	6.0	5.3	5.8
PPG-PR 610	53.3	5.7	5.3	4.3	6.0	5.7	5.0	6.0	6.0	6.3	6.0	5.0	5.8
PPG-PR 666	53.3	5.3	5.7	5.3	6.7	6.0	5.7	5.3	6.3	5.7	5.7	5.3	5.8
PPG-PR 668	56.7	4.7	4.0	4.7	6.3	6.3	6.0	5.7	5.7	5.7	6.0	5.0	5.8
PS4	46.7	5.0	4.7	5.0	6.0	5.7	5.3	5.7	5.7	6.3	6.3	5.0	5.8
SGP4	60.0	4.7	4.3	4.7	5.7	6.0	5.7	5.7	5.7	6.0	6.7	5.3	5.8
DLF-PR-3730	46.7	5.0	4.3	5.0	5.7	5.3	6.0	6.0	5.7	5.7	6.0	5.0	5.7
DLF-PR-3736	50.0	5.0	5.0	5.0	5.7	5.7	6.0	5.3	6.0	6.3	5.7	5.0	5.7
DLF-PR-3738	46.7	4.7	4.7	4.7	5.3	5.3	5.7	5.7	6.3	5.7	6.0	5.3	5.7
GO-RUS22	63.3	5.3	5.3	5.0	5.7	6.0	6.0	5.7	5.3	5.7	5.3	5.7	5.7
PPG-PR 639	53.3	5.7	6.0	5.3	6.3	5.3	5.7	5.3	6.0	5.3	6.0	5.3	5.7
PPG-PR 642	43.3	4.0	5.0	4.3	5.7	5.7	6.0	5.7	5.7	5.3	6.3	5.3	5.7
QUASAR	53.3	4.3	4.3	4.7	5.7	5.7	5.3	6.0	5.3	6.0	6.3	5.0	5.7
ULTRA SPORT (PST-2HAF20)	56.7	5.3	5.3	5.7	5.7	5.7	5.7	5.7	5.7	5.3	6.7	5.3	5.7
ALPHA CENTAURI	43.3	6.0	5.3	5.7	6.3	5.3	5.7	5.7	5.7	5.3	5.7	5.3	5.6
DLF-PR-3729	43.3	4.0	4.3	4.0	6.0	5.7	6.0	6.0	5.7	5.3	5.3	5.0	5.6

TABLE 9.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2023 DATA

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

NAME	PERCENT ESTABLISHMENT	WEAR TOLERANCE RATINGS			QUALITY RATINGS								MEAN
		MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
MRSL-PR22	63.3	6.0	5.7	4.7	5.7	5.7	5.3	6.0	6.0	5.3	5.0	5.7	5.6
PPG-PR 602	46.7	5.0	5.3	5.3	5.3	5.7	5.7	5.3	5.7	5.7	6.0	5.3	5.6
PPG-PR 667	50.0	6.0	5.3	5.7	6.0	5.7	6.0	5.7	5.3	5.7	5.3	5.0	5.6
PST-214	53.3	5.7	5.3	5.3	6.0	5.7	6.0	5.7	5.7	5.3	5.7	5.0	5.6
PST-2GDS	53.3	5.3	5.0	5.0	6.0	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.6
BAR LP 22174	56.7	4.3	4.3	4.0	6.0	5.3	5.7	5.3	5.3	5.7	5.7	4.7	5.5
DLF-PR-3735	46.7	5.0	5.0	5.0	5.3	5.0	5.3	6.0	5.7	5.3	5.7	5.3	5.5
GRAY EAGLE SLT (PST-2MEG)	50.0	4.7	5.0	4.7	5.7	5.3	5.3	5.3	5.3	6.0	5.3	6.0	5.5
KARMA	43.3	5.3	4.7	4.7	5.7	5.3	5.3	5.0	6.3	5.7	5.3	5.0	5.5
PPG-PR 646	43.3	4.3	5.0	4.0	5.7	5.3	5.3	5.7	5.0	5.3	6.3	5.7	5.5
PPG-PR 658	46.7	5.3	5.3	5.3	5.7	5.3	5.3	5.0	6.3	6.0	5.7	5.0	5.5
PST-2BGL	40.0	5.7	5.7	5.7	5.3	5.3	5.0	5.7	5.7	6.0	5.3	5.3	5.5
PST-2E6	46.7	4.3	5.0	4.7	5.3	5.3	5.3	6.0	6.3	5.0	5.3	5.3	5.5
PST-2MES1	53.3	5.0	4.7	5.0	5.7	5.3	5.3	5.0	5.7	6.0	6.0	5.3	5.5
TSC-CRS	60.0	5.0	5.0	5.3	6.3	5.0	5.7	5.7	5.3	5.3	5.0	6.0	5.5
HOMERUN LS	53.3	4.3	4.0	4.0	5.3	5.3	5.0	5.7	5.7	5.3	5.3	5.3	5.4
BAR LP 22262	53.3	5.0	4.7	4.3	6.3	6.0	5.3	5.0	5.3	5.3	5.3	4.3	5.4
DARK MATTER	53.3	5.0	5.7	4.7	5.3	5.3	5.3	5.0	5.3	6.0	5.7	5.3	5.4
HIGH OCTANE	53.3	4.3	4.0	4.3	5.3	5.0	5.0	5.3	5.3	5.7	6.0	5.3	5.4
PPG-PR 611	46.7	5.0	5.3	5.0	5.3	5.3	5.7	5.3	5.3	5.3	5.3	5.3	5.4
PST-2HFM	40.0	5.3	5.7	5.3	6.0	5.3	5.7	5.3	5.0	5.3	5.0	5.7	5.4
RPP3	50.0	4.3	4.3	4.7	5.0	4.7	4.7	5.0	5.7	6.3	6.0	5.7	5.4
RC20-020	53.3	5.0	5.0	5.0	5.7	4.7	4.7	5.0	6.3	5.3	5.7	5.0	5.3
BAR LP 22256	36.7	4.7	5.0	4.7	5.3	5.3	5.3	5.0	5.3	5.3	5.7	4.7	5.3
CJP1R	46.7	4.0	4.0	4.0	5.0	5.0	5.3	5.7	5.7	5.3	5.3	5.0	5.3
DLF-PR-3727	53.3	5.0	5.0	4.7	5.3	5.3	5.3	5.7	5.3	5.3	5.7	4.7	5.3
DLF-PR-3737	43.3	5.0	5.7	5.0	5.7	4.7	5.0	5.3	5.7	5.7	5.7	4.7	5.3
GO-RUS20	56.7	4.3	4.0	4.0	5.7	5.7	5.3	5.7	5.3	5.3	5.3	4.3	5.3
PST-2DRG	53.3	4.7	4.7	5.0	5.3	5.3	5.3	5.0	5.0	5.3	5.3	5.7	5.3
BAR LP 22263	50.0	5.0	4.3	4.3	6.3	5.0	5.3	5.0	5.0	5.3	5.0	4.3	5.2
PPG-PR 620	36.7	4.7	4.0	4.7	5.0	4.7	5.0	4.7	5.0	5.3	5.3	5.3	5.0
SEPR-2013	46.7	4.7	5.0	5.3	5.3	4.7	4.7	4.7	5.0	5.3	4.7	5.3	5.0
DLF-LGT-3066	43.3	3.0	3.3	3.0	4.7	5.0	4.7	5.0	5.0	4.7	4.7	5.0	4.8
BRIGHTSTAR SLT	46.7	5.0	4.0	4.7	5.0	4.7	5.0	4.7	4.3	5.0	4.7	4.3	4.7
PST-2SPF	36.7	3.7	3.7	3.7	5.3	4.0	4.0	4.0	4.7	4.7	4.7	4.3	4.5
LINN	66.7	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
LSD VALUE	8.1	1.1	0.9	0.9	0.9	0.8	0.8	0.9	0.8	1.1	0.9	0.8	0.5
C.V. (%)	9.9	12.5	10.9	10.5	9.4	9.2	8.7	9.9	8.9	10.2	9.6	8.7	5.8

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER	GROUND FALL	CROWN RUST	QUALITY RATINGS					MEAN	
						MAY	JUN	JUL	AUG	SEP		OCT
PPG-PR 639	6.0	4.3	93.7		6.0	7.3	6.7	7.3	6.3	6.7	7.0	6.9
PPG-PR 668	6.0	4.7	92.7		5.7	7.0	6.7	6.7	7.0	7.3	7.0	6.9
DLF-PR-3729	7.3	4.3	95.7		6.0	5.7	6.3	7.0	7.3	7.7	7.0	6.8
HOMERUN LS	6.3	5.0	93.0		5.0	5.7	6.7	6.7	6.7	7.0	6.7	6.6
PPG-PR 661	6.0	5.3	92.0		6.0	7.0	6.7	6.3	7.0	6.3	6.3	6.6
GRAY EAGLE SLT (PST-2MEG)	7.0	4.3	92.0		5.3	5.7	6.7	7.0	6.3	6.7	6.7	6.5
PPG-PR 606	6.3	5.0	91.3		5.7	6.7	6.3	6.3	7.0	6.7	6.0	6.5
DLF-PR-3730	6.7	4.7	93.7		5.7	6.3	6.3	6.3	6.3	7.0	6.3	6.4
PPG-PR 664	6.3	4.0	91.3		5.7	6.7	6.7	6.3	6.3	6.3	6.0	6.4
PST-214	7.3	4.0	94.3		6.3	6.3	6.3	5.7	6.3	7.0	6.7	6.4
PST-2EGY	7.0	5.0	95.3		6.0	4.7	6.3	7.3	6.3	7.7	6.0	6.4
PST-2GDS	6.0	4.0	92.3		6.0	6.7	5.7	6.0	7.0	6.7	6.3	6.4
STELLAR 4GL	6.7	5.0	94.7		6.0	5.7	6.7	6.7	6.3	6.3	6.7	6.4
ULTRA SPORT (PST-2HAF20)	7.0	4.7	92.3		6.3	6.7	6.0	5.3	6.7	6.7	7.3	6.4
PPG-PR 610	6.0	4.7	91.7		5.3	7.3	6.7	6.7	5.7	6.0	5.7	6.3
PPG-PR 658	7.3	3.7	95.0		6.0	5.7	5.7	6.3	6.0	7.0	7.0	6.3
CJP1R	7.7	4.0	95.7		5.7	5.7	5.0	6.3	6.3	7.3	6.7	6.2
DLF-PR-3728	6.7	4.3	95.7		6.7	5.7	6.0	6.0	6.0	6.7	7.0	6.2
ELEKTRA GLR (PPG-PR 671)	6.0	4.3	90.7		5.7	6.7	5.7	6.3	6.0	6.3	6.3	6.2
GO-RUS21	5.7	4.7	92.3		6.3	6.3	6.0	5.3	7.7	6.3	5.7	6.2
PPG-PR 666	6.0	4.3	90.7		5.7	6.0	6.0	6.7	6.0	6.7	6.0	6.2
SE-DK	6.0	5.7	86.7		4.0	6.3	6.7	6.7	5.7	5.3	6.3	6.2
ALPHA CENTAURI	6.0	4.7	91.3		5.3	6.3	6.0	6.0	6.0	6.3	6.0	6.1
DLF-PR-3726	5.3	5.7	90.3		4.7	6.7	6.3	6.0	6.3	6.0	5.3	6.1
PISTON	7.3	4.3	94.7		6.3	5.0	5.3	6.3	6.3	7.0	6.7	6.1
PPG-PR 602	6.3	4.3	93.7		5.7	5.7	6.3	6.3	6.3	6.0	6.0	6.1
PPG-PR 611	6.0	4.7	92.7		6.0	7.0	5.3	6.0	6.0	6.3	6.0	6.1
PPG-PR 620	8.0	4.7	95.0		6.0	6.3	6.0	6.0	6.0	6.3	6.0	6.1
PPG-PR 644	7.3	4.0	93.7		6.7	6.3	4.7	5.3	6.3	7.0	6.7	6.1
PPG-PR 663	6.3	5.0	91.7		6.3	6.3	6.0	6.0	6.0	6.3	6.0	6.1
PPG-PR 667	5.7	4.0	89.7		6.0	6.3	5.7	5.7	6.3	6.7	5.7	6.1
PPG-PR 670	7.0	4.0	93.7		5.3	6.3	5.7	5.3	6.0	6.3	7.0	6.1
PS4	7.0	4.0	92.3		5.7	6.0	5.7	5.7	5.7	6.7	6.7	6.1
PST-2HFM	7.0	4.0	91.0		5.7	6.0	6.3	5.3	6.0	6.7	6.3	6.1
PST-2MES1	6.3	4.7	89.3		5.0	7.0	5.7	6.0	6.0	6.0	5.7	6.1
PVF-SGS5	7.0	4.3	95.3		5.7	6.7	6.0	6.0	5.7	6.0	6.3	6.1
SGP4	7.0	3.7	94.7		6.0	6.3	5.3	6.0	5.7	6.7	6.3	6.1
SILETZ	7.3	4.3	95.3		6.3	6.0	5.0	6.0	6.0	6.7	6.7	6.1
BY-PS2	7.7	3.7	94.7		6.0	5.3	5.3	5.7	5.7	6.7	7.3	6.0
LTP-RPP4	8.0	5.0	95.0		6.3	5.3	5.0	5.3	6.7	7.0	6.7	6.0
PPG-PR 647	7.3	4.7	95.0		6.3	5.3	5.7	6.0	6.0	6.7	6.3	6.0
PST-2ADS	6.7	4.0	94.0		6.0	4.7	5.3	6.3	6.3	6.7	6.7	6.0
PST-2DRG	5.3	4.3	89.3		5.0	6.7	6.0	5.3	6.0	6.0	6.0	6.0
APS	8.0	4.0	94.3		6.7	5.3	5.3	5.7	6.0	6.7	6.7	5.9
DLF-PR-3736	4.7	4.7	90.7		4.7	6.7	6.0	5.7	6.0	5.7	5.3	5.9
PPG-PR 637	7.0	3.7	95.7		5.7	5.7	5.7	5.7	6.0	6.3	6.0	5.9
PPG-PR 642	7.0	4.7	96.0		7.0	5.7	4.7	5.3	6.3	7.0	6.7	5.9

TABLE 10.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT ST. PAUL, MN 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	PERCENT COVER	GROUND FALL	CROWN RUST	QUALITY RATINGS					MEAN
						MAY	JUN	JUL	AUG	SEP	
PPG-PR 662	5.7	3.3	91.7	5.0	7.0	6.0	6.0	5.3	6.0	5.0	5.9
PPG-PR 665	6.0	4.7	93.0	5.3	6.3	5.3	5.7	6.0	5.7	6.3	5.9
PST-2E6	6.7	4.7	94.0	5.7	5.0	6.0	6.3	6.7	6.0	5.7	5.9
DLF-PR-3735	8.0	3.3	95.3	6.0	5.0	5.3	6.0	6.0	6.0	6.3	5.8
NAI-PR5	7.0	5.7	92.3	6.7	4.7	5.7	5.7	6.0	7.0	6.0	5.8
PPG-PR 643	6.7	4.3	93.7	6.0	5.0	5.3	6.0	6.0	6.7	6.0	5.8
PPG-PR 646	8.3	5.0	94.3	6.0	6.0	5.3	5.0	5.0	6.3	7.0	5.8
RC20-020	7.0	4.3	90.7	5.3	5.7	6.0	6.0	5.7	5.7	6.0	5.8
RPP3	7.7	4.0	94.0	5.3	5.7	5.3	5.3	5.3	6.3	6.7	5.8
TSC-CRS	6.7	5.3	85.0	4.3	6.3	6.0	6.3	5.3	5.0	6.0	5.8
20PR10	7.7	5.3	94.3	6.3	4.7	5.3	4.7	6.3	7.3	6.0	5.7
DLF-PR-3738	8.0	4.3	95.3	6.0	5.0	5.0	5.7	5.0	6.7	7.0	5.7
GO-RUS20	4.3	4.3	88.7	5.3	6.0	6.3	6.0	6.0	5.0	4.7	5.7
GO-RUS22	5.3	4.3	87.0	4.7	6.0	6.0	6.0	5.7	5.3	5.0	5.7
QUASAR	7.3	5.0	94.0	6.0	5.3	5.0	5.3	5.7	6.7	6.3	5.7
HIGH OCTANE	8.3	4.7	93.7	5.3	5.3	5.0	5.3	5.3	6.7	6.0	5.6
PVF-RPP2	8.0	4.0	95.3	6.0	5.0	5.3	6.0	5.7	6.0	5.7	5.6
BSG-PR22	5.7	4.7	85.0	3.7	6.0	6.0	5.3	5.0	5.3	5.3	5.5
LTP-NR	6.7	4.3	93.7	5.0	5.0	5.0	5.3	5.7	6.0	5.7	5.4
MRL-PR22	6.0	4.3	85.3	4.0	5.7	5.7	6.0	5.7	4.7	5.0	5.4
BAR LP 22174	3.3	5.3	88.0	4.0	5.7	4.7	5.3	6.7	5.0	4.7	5.3
BAR LP 22263	4.0	4.0	85.7	4.0	5.7	5.3	6.0	6.0	4.3	4.7	5.3
DLF-PR-3727	4.3	4.3	91.0	5.0	6.0	5.0	5.3	5.3	4.7	5.3	5.3
DLF-PR-3737	4.7	4.3	86.7	5.0	5.7	5.7	4.7	5.7	5.3	5.0	5.3
KARMA	5.0	4.0	88.0	4.3	5.7	5.0	5.3	5.7	5.3	5.0	5.3
PST-2BGL	6.7	3.7	90.7	6.3	5.3	5.0	4.7	5.7	5.7	5.7	5.3
DARK MATTER	5.0	5.0	83.3	3.3	6.3	5.7	5.3	5.0	4.3	4.7	5.2
BAR LP 22191	2.7	4.3	83.3	3.0	6.0	5.7	5.3	5.7	4.3	3.7	5.1
GREENBACK	4.7	5.0	83.0	3.7	6.0	6.0	5.0	5.0	4.0	4.7	5.1
BRIGHTSTAR SLT	3.0	5.3	79.0	3.3	6.0	5.0	5.7	5.3	4.0	4.0	5.0
BAR LP 22256	5.0	3.3	86.3	3.3	5.0	4.7	5.7	5.3	4.7	4.3	4.9
BAR LP 22262	1.7	3.7	86.7	2.0	6.3	6.3	5.3	5.0	3.3	3.0	4.9
DLF-LGT-3066	3.0	4.7	83.7	3.3	5.7	5.0	5.3	6.0	4.0	3.0	4.8
PST-2SPF	8.0	3.3	96.0	6.7	4.0	4.7	4.0	4.0	4.7	7.7	4.8
SEPR-2013	5.0	4.0	85.3	3.3	5.3	4.7	4.7	4.3	4.0	4.7	4.6
LINN	1.7	6.7	82.7	3.3	2.0	3.3	4.0	1.3	1.3	1.3	2.2
LSD VALUE	1.0	1.8	2.8	1.3	1.5	1.8	2.3	1.2	1.2	1.2	0.8
C.V. (%)	11.3	17.9	2.1	15.3	14.1	14.7	15.5	12.2	12.6	13.4	8.4

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

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

TABLE 11.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	SEEDLING VIGOR	QUALITY RATINGS							MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-PR 662	8.0	5.3	6.7	6.0	7.0	7.7	7.3	7.0	6.7	7.0	7.0
PPG-PR 610	8.0	6.0	6.3	6.3	7.0	7.0	7.0	6.7	7.3	6.7	6.9
PPG-PR 667	7.3	5.0	5.0	5.0	7.0	7.3	7.7	6.7	6.3	7.7	6.8
PPG-PR 670	7.3	5.3	6.7	6.7	7.0	7.0	7.0	6.3	6.7	6.7	6.8
SILETZ	7.0	5.7	5.7	6.0	6.7	7.3	6.3	7.0	6.3	7.0	6.7
DLF-PR-3735	7.3	6.7	4.7	6.0	6.3	7.3	6.7	6.7	6.7	7.0	6.7
PPG-PR 664	7.7	6.0	5.0	6.0	7.0	7.0	6.7	6.3	6.7	7.0	6.7
ULTRA SPORT (PST-2HAF20)	8.0	5.3	5.3	6.0	6.3	7.3	6.7	7.0	6.7	7.0	6.7
BY-PS2	7.0	6.0	5.7	5.7	6.7	7.3	7.0	7.0	6.3	6.3	6.6
PPG-PR 602	7.7	6.0	4.7	5.7	6.7	7.0	7.0	6.7	6.7	6.7	6.6
PPG-PR 637	7.0	5.3	6.0	5.7	7.0	7.0	6.7	7.3	6.3	6.3	6.6
PPG-PR 661	8.0	5.3	6.0	5.7	6.7	7.0	7.0	7.0	6.3	6.7	6.6
PVF-SGS5	7.0	6.3	4.3	5.7	6.3	7.0	6.7	7.0	6.3	7.0	6.6
LTP-RPP4	7.3	5.7	7.0	6.0	6.7	7.0	6.7	6.7	6.3	6.3	6.5
ELEKTRA GLR (PPG-PR 671)	7.7	5.3	5.3	5.7	6.3	7.0	6.7	6.7	6.3	6.7	6.5
GO-RUS20	7.0	5.0	8.0	5.3	6.7	7.0	7.0	6.7	6.0	6.7	6.5
PPG-PR 665	6.7	6.0	5.7	6.0	6.0	6.7	6.7	6.7	6.7	7.0	6.5
PPG-PR 666	7.3	5.3	5.0	5.3	6.3	6.7	6.7	7.0	6.3	7.0	6.5
PST-214	6.7	5.0	6.0	5.0	6.7	6.7	6.7	6.7	6.7	7.3	6.5
PST-2ADS	7.3	5.7	4.7	5.3	6.7	7.0	6.7	6.0	6.3	7.3	6.5
PST-2HFM	7.7	5.3	6.3	5.7	6.3	7.0	6.3	7.0	6.3	7.0	6.5
DLF-PR-3728	7.0	6.0	5.0	5.3	6.0	7.0	6.7	6.7	6.7	6.7	6.4
DLF-PR-3729	7.3	6.7	4.7	5.7	6.0	6.7	6.7	6.7	6.7	6.7	6.4
PPG-PR 620	7.3	5.7	4.7	6.0	6.7	6.7	6.3	6.0	6.7	6.7	6.4
PPG-PR 639	7.3	5.3	4.7	4.7	6.0	7.0	6.7	6.3	7.0	7.0	6.4
PPG-PR 658	7.0	4.7	6.3	5.0	6.3	7.0	7.0	6.7	6.0	6.7	6.4
PPG-PR 663	7.0	5.7	6.3	5.7	7.0	7.0	6.7	6.0	6.0	6.7	6.4
PST-2EGY	7.0	5.7	5.7	6.0	6.0	6.3	6.0	7.0	6.7	7.0	6.4
PST-2GDS	7.3	5.3	5.3	5.7	6.7	6.7	6.0	7.0	6.3	6.7	6.4
PST-2MES1	7.0	5.0	6.0	5.3	6.3	6.7	6.7	7.0	6.3	6.3	6.4
LTP-NR	7.3	5.7	6.3	6.0	7.0	7.0	6.0	6.0	6.0	6.3	6.3
PVF-RPP2	7.0	6.0	7.0	5.7	6.0	6.3	6.3	6.7	6.7	6.7	6.3
BAR LP 22174	6.0	5.7	6.3	5.7	6.3	7.0	7.0	5.7	6.0	6.3	6.3
BAR LP 22256	7.3	5.3	6.0	5.7	6.3	7.0	6.7	6.3	5.7	6.3	6.3
DLF-PR-3727	7.3	6.0	5.3	6.0	6.3	6.3	6.7	6.7	6.0	6.3	6.3
DLF-PR-3736	7.0	5.7	5.7	5.3	6.0	7.0	7.3	6.3	6.3	6.0	6.3
GO-RUS21	6.3	5.0	5.7	5.3	6.0	7.0	6.7	6.0	6.0	7.0	6.3
MRSI-PR22	8.0	4.7	5.3	5.3	5.7	6.7	6.7	6.3	6.7	7.0	6.3
PISTON	7.7	5.0	7.0	6.0	6.0	6.3	6.0	6.7	6.7	6.7	6.3
PPG-PR 647	6.7	5.7	6.0	6.0	6.0	6.3	6.7	6.3	6.3	6.3	6.3
GREENBACK	7.3	5.0	6.3	5.3	6.3	6.7	6.0	6.3	6.3	6.3	6.2
20PR10	7.0	5.7	6.3	5.0	6.3	6.7	6.7	6.3	6.3	6.3	6.2
BAR LP 22191	7.0	6.3	4.7	6.0	6.3	7.0	6.7	6.0	5.7	6.0	6.2
BAR LP 22262	6.3	6.3	5.3	5.3	6.0	7.0	6.7	5.3	6.7	6.7	6.2
DLF-PR-3726	7.0	5.3	5.7	5.3	6.0	6.7	7.0	6.3	6.0	6.3	6.2
DLF-PR-3738	7.3	5.3	6.0	5.0	6.0	6.0	6.0	7.0	6.7	7.0	6.2
PPG-PR 606	7.7	5.7	4.7	4.7	6.0	7.0	5.7	6.7	6.3	7.0	6.2

TABLE 11.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT MEAD, NE 1/
2023 DATA

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

NAME	QUALITY RATINGS										
	GENETIC COLOR	SPRING GREENUP	SEEDLING VIGOR	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
PPG-PR 611	7.3	5.0	6.3	5.3	6.3	6.3	6.0	6.7	6.0	6.7	6.2
PPG-PR 642	7.0	5.3	4.3	4.7	6.0	6.0	7.0	7.3	6.3	6.3	6.2
PPG-PR 643	7.3	5.3	6.0	5.0	6.0	6.3	6.3	6.7	6.3	6.7	6.2
PPG-PR 668	7.3	5.3	4.7	4.7	5.7	7.0	6.3	6.7	6.7	6.3	6.2
PST-2BGL	7.3	5.0	4.3	4.7	6.3	6.3	6.3	7.0	6.3	6.7	6.2
SGP4	7.0	5.3	6.0	5.7	6.3	6.3	6.3	6.0	6.0	7.0	6.2
HOMERUN LS	6.7	5.3	5.7	5.7	6.0	7.0	6.0	6.0	5.7	6.3	6.1
APS	7.0	6.3	6.0	6.0	6.0	6.0	6.3	5.7	6.3	6.7	6.1
BSG-PR22	8.0	4.3	7.0	4.7	5.0	6.0	6.7	7.0	6.3	7.0	6.1
CJP1R	7.3	5.7	6.3	5.3	5.7	6.0	6.3	6.3	6.0	7.0	6.1
DLF-PR-3730	7.3	5.3	5.3	4.7	6.0	6.7	7.0	6.0	6.3	6.3	6.1
GO-RUS22	7.7	5.3	6.3	5.7	6.3	6.3	6.3	6.0	6.0	6.3	6.1
GRAY EAGLE SLT (PST-2MEG)	8.0	5.0	5.3	5.0	5.7	6.7	6.3	6.3	6.0	6.7	6.1
KARMA	7.0	5.0	6.3	6.0	6.0	6.3	7.0	6.0	5.7	6.0	6.1
PPG-PR 644	7.0	5.0	6.7	5.3	6.0	6.7	6.0	6.3	6.3	6.3	6.1
PST-2E6	7.0	5.3	4.0	5.0	5.7	6.0	6.3	6.3	7.0	6.7	6.1
RC20-020	7.3	5.3	6.0	5.3	6.3	7.3	6.7	5.0	5.3	6.3	6.0
STELLAR 4GL	7.0	5.7	6.0	5.3	5.7	6.3	5.3	6.7	6.0	6.7	6.0
ALPHA CENTAURI	7.3	5.3	4.3	5.0	5.3	6.3	6.7	6.3	6.0	6.0	6.0
BRIGHTSTAR SLT	7.0	6.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0
DLF-PR-3737	7.7	5.3	5.7	4.7	5.7	6.0	6.7	6.3	6.3	6.7	6.0
HIGH OCTANE	7.0	6.3	4.7	5.0	6.0	6.7	5.7	6.3	6.0	6.3	6.0
PPG-PR 646	7.7	5.0	6.0	5.0	6.3	6.7	6.0	6.0	6.3	6.0	6.0
PST-2DRG	7.3	5.3	5.3	5.0	6.0	6.0	6.0	6.0	6.3	6.7	6.0
PST-2SPF	8.0	5.0	6.0	5.0	6.0	7.0	6.0	6.3	5.7	6.3	6.0
SE-DK	8.0	4.3	6.7	5.3	5.7	6.0	6.3	7.0	6.0	6.0	6.0
SEPR-2013	8.0	5.7	6.0	5.7	5.7	5.7	6.0	5.7	6.3	6.7	6.0
DARK MATTER	8.0	4.0	5.7	4.7	5.7	6.0	5.7	6.0	6.7	6.3	5.9
NAI-PR5	7.0	5.0	6.3	5.0	5.0	6.0	6.3	6.0	6.3	6.3	5.9
QUASAR	7.0	5.0	6.3	5.0	6.0	6.3	5.7	5.3	6.3	6.3	5.9
RPP3	7.0	5.7	6.3	5.0	5.3	6.3	6.0	6.0	6.0	6.3	5.9
BAR LP 22263	7.0	5.7	5.0	4.7	5.0	6.0	7.0	6.0	6.0	6.0	5.8
DLF-LGT-3066	7.3	5.0	3.7	4.7	5.7	5.7	6.0	6.3	6.0	6.0	5.8
PS4	7.7	5.3	5.0	4.7	5.3	6.3	6.0	6.0	6.0	6.3	5.8
TSC-CRS	8.0	5.0	6.0	5.0	5.7	6.0	6.0	6.0	5.7	6.0	5.8
LINN	6.0	5.3	7.3	4.0	4.7	5.7	6.0	5.0	4.3	5.0	5.0
LSD VALUE	0.9	2.1	3.0	2.9	0.8	0.8	1.3	1.3	1.3	1.0	0.5
C.V. (%)	6.7	13.6	20.3	15.3	7.5	7.2	9.0	9.6	8.9	7.4	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.

TABLE 12.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2023 DATA

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

NAME	QUALITY RATINGS											MEAN
	GENETIC COLOR	SEEDLING VIGOR	FALL DENSITY	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
DLF-PR-3728	7.3	8.7	7.7	8.0	6.0	6.7	7.0	7.7	8.7	8.3	8.3	7.6
APS	7.7	9.0	6.7	8.7	6.7	6.3	7.3	8.0	7.7	7.7	7.7	7.5
PPG-PR 637	7.3	9.0	8.7	8.0	6.7	6.0	7.0	7.7	8.3	8.0	8.7	7.5
PPG-PR 658	8.0	9.0	6.7	8.0	7.0	6.3	7.0	8.0	8.0	8.0	7.3	7.5
PPG-PR 606	8.3	8.7	5.3	6.7	8.0	7.0	6.7	8.7	7.7	8.3	6.3	7.4
PPG-PR 664	8.3	9.0	6.0	8.0	8.3	7.7	8.7	8.0	6.0	6.0	6.3	7.4
LTP-RPP4	7.0	9.0	7.3	8.7	6.0	5.7	7.0	7.3	7.3	7.7	8.3	7.3
SILETZ	6.3	9.0	7.7	7.7	7.0	5.7	7.0	8.0	7.7	7.7	7.7	7.3
DLF-PR-3730	7.3	9.0	7.3	7.3	7.3	5.7	7.3	7.3	8.0	8.0	7.3	7.3
PPG-PR 644	7.7	8.7	7.7	8.7	6.0	5.0	6.3	8.0	8.3	8.3	7.7	7.3
PPG-PR 662	6.3	9.0	6.3	6.7	9.0	8.0	8.3	7.7	6.3	6.0	6.3	7.3
SGP4	8.0	8.7	8.0	7.3	7.7	6.3	7.0	6.7	7.0	7.7	8.3	7.3
PPG-PR 639	7.7	9.0	6.3	7.7	8.3	6.3	6.7	6.7	7.7	7.3	6.7	7.2
ALPHA CENTAURI	7.3	8.3	6.3	7.3	8.7	6.0	7.3	7.7	6.3	7.0	6.3	7.1
CJP1R	8.0	9.0	7.3	7.0	5.7	5.7	7.7	8.0	6.7	8.0	8.0	7.1
DLF-PR-3726	6.3	9.0	6.0	8.0	7.7	6.3	8.0	6.3	6.3	7.0	7.3	7.1
PPG-PR 611	7.7	9.0	6.0	7.3	7.7	6.0	7.0	7.3	7.0	7.0	6.7	7.0
PPG-PR 667	7.0	8.7	5.3	8.0	8.7	7.3	7.7	7.7	6.0	5.7	5.0	7.0
PPG-PR 668	7.7	9.0	5.7	7.3	8.7	6.7	7.0	7.3	5.7	6.3	6.7	7.0
PVF-RPP2	7.7	8.7	7.7	7.3	5.0	5.7	7.0	7.3	7.0	8.0	7.7	6.9
DLF-PR-3729	7.3	9.0	6.7	7.7	5.7	6.3	7.3	7.0	6.7	7.0	7.7	6.9
PPG-PR 610	7.3	9.0	5.7	8.3	7.3	6.0	6.3	7.3	6.3	7.0	6.3	6.9
PVF-SGS5	7.3	8.7	6.7	8.7	6.3	5.0	6.3	7.3	7.3	7.3	7.0	6.9
BY-PS2	8.0	8.7	7.3	8.0	5.0	5.7	8.0	7.0	6.3	7.0	7.3	6.8
ELEKTRA GLR (PPG-PR 671)	8.0	9.0	7.0	6.0	8.0	7.0	6.7	6.7	6.7	7.0	6.7	6.8
PPG-PR 602	7.3	9.0	5.3	8.0	7.0	5.7	6.3	7.7	7.3	6.3	6.3	6.8
PPG-PR 620	8.0	8.7	6.3	9.0	5.3	5.3	5.7	7.7	7.0	7.0	7.0	6.8
PPG-PR 642	7.3	8.0	6.0	7.3	5.3	5.0	7.3	8.0	7.3	7.3	6.7	6.8
PPG-PR 666	7.0	9.0	6.0	7.7	8.3	6.3	6.3	7.3	6.0	6.7	6.0	6.8
PST-214	8.0	9.0	5.0	7.3	8.3	8.0	7.7	5.3	5.3	6.3	5.7	6.8
GO-RUS21	5.3	9.0	6.3	8.7	6.7	5.3	7.3	7.7	5.7	6.0	6.0	6.7
PPG-PR 661	8.3	9.0	5.7	7.7	6.3	6.3	7.0	6.7	6.7	7.0	6.0	6.7
PPG-PR 663	8.0	9.0	4.7	8.3	8.7	7.0	6.7	7.0	5.7	5.0	5.3	6.7
PPG-PR 670	8.0	8.7	5.0	6.7	7.3	7.0	7.3	7.0	6.0	5.7	6.3	6.7
STELLAR 4GL	7.0	9.0	7.3	7.3	5.3	5.3	6.0	8.0	6.7	7.3	7.0	6.6
PPG-PR 646	7.3	9.0	6.7	8.0	7.3	5.0	5.7	6.3	6.3	7.3	7.0	6.6
DLF-PR-3738	7.7	9.0	5.7	8.7	5.7	5.7	6.7	7.0	7.0	5.7	5.7	6.5
PPG-PR 647	7.7	9.0	7.0	7.7	5.3	5.3	6.7	6.3	6.3	7.3	7.3	6.5
PPG-PR 665	7.7	8.7	5.7	7.3	7.0	5.3	6.7	7.3	6.3	6.3	6.0	6.5
GO-RUS20	5.7	8.7	5.7	8.3	5.7	5.0	7.7	7.0	5.7	6.0	6.0	6.4
LTP-NR	7.3	9.0	6.3	7.7	6.3	5.3	5.3	6.3	5.7	6.7	6.7	6.3
20PR10	6.3	9.0	6.3	8.3	5.3	6.0	7.0	6.0	6.0	6.0	6.0	6.3
BAR LP 22174	4.3	9.0	7.0	7.3	5.3	5.3	6.0	6.0	6.7	7.0	6.7	6.3
DLF-PR-3736	5.3	9.0	4.3	7.7	7.7	5.7	6.0	7.0	5.7	5.3	5.0	6.3
NAI-PR5	7.3	9.0	6.0	8.3	5.0	4.3	6.0	6.7	6.7	7.0	6.7	6.3
PISTON	7.7	8.3	6.3	6.3	6.3	4.7	6.0	6.3	6.7	7.0	7.0	6.3
PST-2ADS	6.7	8.7	6.7	7.7	4.3	4.0	6.7	7.7	6.0	6.7	7.0	6.3

TABLE 12.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT ADELPHIA, NJ 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	FALL DENSITY	QUALITY RATINGS								MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
PST-2GDS	7.7	9.0	5.3	7.7	7.0	6.0	5.7	5.7	5.7	6.0	6.3	6.3
ULTRA SPORT (PST-2HAF20)	7.7	8.3	5.7	6.3	8.0	6.3	5.3	6.7	6.0	5.3	6.7	6.3
DLF-LGT-3066	5.7	9.0	4.7	6.7	6.7	6.0	8.0	5.7	5.3	5.7	5.3	6.2
PPG-PR 643	7.7	9.0	5.0	8.7	4.0	3.7	6.3	7.0	6.7	6.7	6.7	6.2
PST-2BGL	8.3	8.7	5.3	7.7	6.3	5.3	5.3	5.3	5.7	6.7	6.7	6.1
QUASAR	7.0	9.0	6.3	8.3	5.0	4.7	5.7	5.7	6.0	6.7	6.7	6.1
PS4	7.3	8.7	4.3	8.0	7.0	5.7	5.7	6.0	5.0	5.0	5.7	6.0
PST-2HFM	8.0	8.7	4.3	7.7	7.0	6.7	5.0	5.3	5.7	5.3	5.7	6.0
DLF-PR-3735	7.0	7.3	5.3	7.7	6.0	4.3	5.7	5.7	5.3	5.7	5.7	5.8
DLF-PR-3737	8.3	8.3	4.7	7.0	7.3	5.7	6.3	5.3	4.3	4.7	5.3	5.8
PST-2EGY	7.7	9.0	4.3	7.3	5.3	4.7	5.3	6.0	5.7	6.3	5.3	5.8
RPP3	7.7	8.7	6.0	7.7	5.0	4.0	5.0	5.7	5.7	5.7	6.7	5.7
DLF-PR-3727	6.3	9.0	4.3	8.7	6.7	4.7	5.0	6.3	4.7	4.7	4.3	5.6
GO-RUS22	5.7	8.7	4.3	7.3	6.0	5.7	5.0	4.3	5.3	6.3	4.7	5.6
GRAY EAGLE SLT (PST-2MEG)	8.0	8.7	4.0	7.3	6.7	5.3	5.0	5.3	5.3	5.7	4.3	5.6
HIGH OCTANE	7.7	9.0	5.7	8.0	4.0	3.7	4.3	4.7	6.7	6.0	6.3	5.5
PST-2E6	8.0	8.7	4.3	7.7	5.0	5.0	5.3	4.7	5.0	6.3	5.0	5.5
HOMERUN LS	7.0	9.0	4.3	8.3	5.7	4.7	5.7	3.7	4.7	5.3	5.0	5.4
BAR LP 22191	4.7	9.0	4.7	8.3	5.0	5.0	6.3	5.0	3.7	4.7	4.0	5.3
BAR LP 22262	3.3	8.7	4.7	6.3	5.7	4.3	6.7	6.3	4.3	5.0	3.3	5.3
BAR LP 22256	5.0	8.7	3.7	7.0	4.0	5.0	6.3	6.3	4.3	5.0	3.7	5.2
BAR LP 22263	4.7	9.0	5.0	7.0	4.3	5.0	5.3	4.7	4.7	5.3	5.0	5.2
PST-2MES1	7.3	8.0	5.0	6.7	5.0	4.3	5.3	5.0	5.7	5.0	4.7	5.2
KARMA	6.7	9.0	4.0	8.0	5.7	4.3	4.7	4.0	4.0	5.0	5.0	5.1
GREENBACK	9.0	9.0	4.3	5.7	5.7	5.0	5.0	4.3	4.0	4.3	4.3	4.8
PST-2DRG	8.7	8.7	3.0	6.3	5.7	4.7	4.0	4.3	4.3	4.3	4.7	4.8
BRIGHTSTAR SLT	4.3	9.0	4.3	7.3	4.3	4.0	4.7	4.0	4.0	4.7	3.7	4.6
BSG-PR22	9.0	9.0	3.0	6.0	5.7	5.3	4.3	4.0	3.7	3.3	3.3	4.5
SE-DK	9.0	9.0	2.7	6.0	6.0	5.3	3.7	3.7	3.3	3.3	4.3	4.5
DARK MATTER	8.7	9.0	3.7	6.7	5.3	4.3	3.7	4.3	3.7	4.0	3.0	4.4
PST-2SPF	8.3	9.0	4.7	5.7	5.0	4.7	3.0	2.0	3.3	4.0	5.0	4.1
MRS�-PR22	8.7	9.0	2.7	5.3	6.0	4.7	3.7	3.3	3.0	2.7	3.0	4.0
RC20-020	8.7	9.0	2.7	7.7	5.3	3.7	2.7	3.0	2.7	2.7	3.7	3.9
TSC-CRS	9.0	9.0	2.7	6.7	4.3	3.7	3.0	3.0	3.0	2.3	3.3	3.7
SEPR-2013	9.0	8.7	3.3	6.0	3.0	3.0	2.3	2.7	2.7	3.3	3.3	3.3
LINN	2.0	9.0	1.7	3.3	1.0	1.7	2.3	1.3	1.7	1.0	2.0	1.8
LSD VALUE	1.1	1.1	1.5	1.4	1.1	1.2	1.1	1.1	1.3	1.1	1.2	0.5
C.V. (%)	10.3	4.7	17.6	11.4	12.1	13.9	12.6	11.9	14.8	12.6	13.6	6.2

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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT COLUMBUS, OH 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING DENSITY	PERCENT GROUND COVER		QUALITY RATINGS									MEAN
			SPRING	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SILETZ	7.0	9.0	86.7	97.7	7.7	7.3	5.7	6.3	6.7	6.7	6.7	6.7	6.3	6.7
PPG-PR 646	7.0	9.0	95.0	97.7	8.3	7.7	5.0	6.0	7.0	7.3	7.7	6.0	5.7	6.7
DLF-PR-3728	7.0	9.0	93.3	99.0	7.7	6.7	6.0	6.3	7.0	7.3	7.3	5.0	5.7	6.6
DLF-PR-3726	7.3	9.0	91.7	96.3	8.0	7.7	5.3	5.7	6.3	6.7	6.7	5.7	6.3	6.5
PPG-PR 606	7.7	9.0	91.7	96.3	8.0	7.3	5.7	6.3	6.3	7.0	7.0	5.7	5.3	6.5
PPG-PR 666	8.3	9.0	91.7	94.3	8.0	7.7	7.0	6.7	6.3	6.0	6.0	5.3	5.7	6.5
PPG-PR 668	8.0	9.0	91.7	95.0	8.0	7.7	6.3	7.0	7.0	7.0	6.0	4.7	5.0	6.5
STELLAR 4GL	7.0	9.0	66.3	94.7	8.7	7.0	5.3	6.3	6.7	6.7	6.3	5.0	5.3	6.4
NAI-PR5	6.7	9.0	86.0	94.7	9.0	7.0	5.3	6.7	6.7	6.7	6.3	5.0	5.3	6.4
PISTON	7.0	9.0	96.3	93.3	8.7	8.0	5.3	6.3	6.0	6.0	6.3	5.3	5.7	6.4
PPG-PR 662	8.0	9.0	95.0	91.7	8.3	8.0	6.7	6.7	6.0	6.0	5.3	5.0	5.3	6.4
PPG-PR 670	7.7	9.0	86.7	96.3	7.7	7.0	6.7	6.7	6.3	6.0	6.3	5.7	5.3	6.4
PST-2HFM	7.0	9.0	96.3	95.0	8.3	8.0	6.0	6.0	6.0	6.0	6.0	5.3	5.7	6.4
ULTRA SPORT (PST-2HAF20)	8.0	9.0	93.3	96.3	7.7	6.7	6.0	6.7	6.3	6.3	6.3	5.7	6.0	6.4
20PR10	7.0	9.0	99.0	93.0	9.0	7.7	5.7	6.7	6.0	5.7	6.0	4.3	5.7	6.3
DLF-PR-3738	7.0	9.0	96.3	95.0	8.7	7.3	5.3	6.0	6.0	6.0	6.3	5.3	5.7	6.3
PPG-PR 642	7.0	9.0	91.7	96.3	8.0	7.3	5.3	6.0	6.3	6.3	6.7	5.3	5.7	6.3
PPG-PR 663	7.7	9.0	96.3	93.3	8.3	8.0	5.7	6.0	6.0	6.0	5.7	5.3	5.3	6.3
PPG-PR 667	7.7	9.0	91.7	96.3	8.3	6.7	5.3	6.0	6.7	6.7	6.3	5.7	5.0	6.3
PST-2EGY	7.0	9.0	91.7	96.3	7.7	7.3	5.3	6.0	6.7	6.7	6.3	5.3	5.0	6.3
PST-2MES1	7.0	9.0	93.0	93.3	8.3	8.0	6.0	6.0	6.0	5.7	5.7	5.0	5.7	6.3
PVF-SGS5	7.0	9.0	91.7	95.0	8.0	6.7	5.3	6.3	6.3	6.3	6.3	6.0	5.7	6.3
QUASAR	7.0	9.0	94.7	96.0	8.3	7.7	5.0	6.0	6.0	6.0	6.3	5.3	5.7	6.3
BY-PS2	7.0	9.0	93.0	91.7	8.3	7.3	4.7	6.3	6.0	6.0	6.0	5.7	5.3	6.2
LTP-NR	7.3	9.0	97.7	95.0	8.7	7.0	5.7	5.7	6.0	6.0	6.3	5.0	5.3	6.2
PVF-RPP2	7.0	9.0	94.7	95.0	8.3	7.7	4.7	6.3	6.0	6.0	5.7	5.3	6.0	6.2
DLF-PR-3729	7.0	9.0	93.0	93.3	8.3	7.0	5.3	6.7	6.0	5.7	5.7	6.0	5.3	6.2
ELEKTRA GLR (PPG-PR 671)	8.0	9.0	89.7	93.3	7.7	7.0	6.0	6.3	6.3	6.3	6.0	5.0	5.0	6.2
GO-RUS22	7.3	9.0	93.3	95.0	8.0	7.7	5.7	5.7	6.0	6.0	6.0	5.0	5.7	6.2
PPG-PR 620	7.3	9.0	85.0	95.0	7.7	7.3	5.0	6.0	6.0	6.0	6.7	5.3	5.7	6.2
PPG-PR 637	7.3	9.0	96.3	91.7	8.3	8.0	5.7	6.0	6.0	5.3	5.7	4.7	6.0	6.2
PPG-PR 661	7.0	9.0	93.0	94.7	8.0	7.7	6.3	6.0	6.0	5.7	5.7	5.3	5.3	6.2
PPG-PR 665	7.3	9.0	91.7	95.0	8.0	7.3	5.7	6.0	6.0	6.0	6.0	5.3	5.3	6.2
PS4	7.0	9.0	93.3	93.0	8.0	7.3	4.7	6.3	6.3	6.3	6.3	4.7	5.7	6.2
PST-2GDS	7.0	9.0	88.3	91.7	8.0	7.3	5.7	6.3	6.0	6.3	5.7	4.7	5.7	6.2
RC20-020	6.7	9.0	93.3	95.0	8.7	7.0	5.0	6.3	6.0	6.0	6.0	5.0	5.3	6.1
CJP1R	7.0	9.0	96.3	93.3	8.3	7.7	5.0	6.0	6.0	5.3	5.7	5.0	6.0	6.1
DLF-PR-3730	7.3	9.0	90.0	95.0	8.0	7.3	5.3	6.0	6.0	6.0	6.0	4.7	5.3	6.1
GO-RUS20	7.0	8.7	93.3	95.0	8.0	7.0	5.7	5.7	6.0	6.0	6.0	5.0	5.3	6.1
GO-RUS21	7.0	9.0	88.3	96.3	7.7	6.7	5.7	6.3	6.3	6.0	6.0	5.0	5.0	6.1
PPG-PR 602	7.0	9.0	91.7	93.3	7.7	7.3	5.3	6.7	6.0	6.0	6.0	5.0	5.3	6.1
PPG-PR 610	7.0	9.0	95.0	96.3	8.0	7.0	5.3	6.0	6.0	6.3	6.7	4.7	5.3	6.1
PPG-PR 639	7.7	9.0	90.0	95.0	7.7	7.0	5.7	6.0	6.0	6.3	6.3	5.0	5.0	6.1
PPG-PR 643	6.7	9.0	94.7	93.3	8.3	7.3	5.3	5.7	6.0	5.7	5.7	5.3	6.0	6.1
PPG-PR 644	7.0	9.0	93.0	93.3	8.0	7.7	5.0	6.3	6.7	6.0	5.7	4.3	5.0	6.1
PST-2DRG	7.3	9.0	95.0	93.3	8.0	7.0	4.7	6.3	6.0	6.0	5.7	5.3	5.7	6.1
PST-2E6	6.3	9.0	94.7	91.7	8.3	6.7	5.3	6.3	6.0	6.0	5.3	5.7	5.3	6.1

TABLE 13.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT COLUMBUS, OH 1/
2023 DATA

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

NAME	GENETIC COLOR	SPRING DENSITY	PERCENT GROUND COVER		QUALITY RATINGS									MEAN
			SPRING	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SE-DK	8.0	9.0	93.3	90.0	8.7	7.7	5.3	6.0	5.7	5.3	5.3	5.3	5.7	6.1
TSC-CRS	7.7	9.0	96.3	90.0	8.3	7.3	4.3	6.3	6.3	6.3	5.0	5.7	5.3	6.1
GREENBACK	7.7	9.0	95.0	88.3	8.0	7.7	4.7	5.7	6.0	5.7	5.0	6.0	5.3	6.0
APS	7.0	9.0	93.3	93.0	8.0	7.3	5.0	5.7	5.7	5.3	6.0	4.7	6.0	6.0
BAR LP 22191	6.7	9.0	91.3	91.7	8.3	7.7	5.7	6.3	5.3	4.7	5.0	5.0	5.7	6.0
BAR LP 22256	7.7	9.0	93.3	95.0	8.0	7.7	5.0	6.0	5.7	5.7	5.7	5.3	5.3	6.0
DLF-LGT-3066	7.0	8.7	96.3	91.7	8.7	7.0	5.7	6.0	6.0	5.3	5.0	5.7	5.0	6.0
DLF-PR-3727	7.3	9.0	93.3	91.7	8.0	7.3	5.0	6.7	6.0	6.0	5.3	4.7	4.7	6.0
GRAY EAGLE SLT (PST-2MEG)	7.7	9.0	95.0	95.0	8.0	7.0	5.0	6.0	6.0	6.0	6.0	5.0	5.0	6.0
HIGH OCTANE	6.7	9.0	91.7	93.3	8.0	7.0	4.3	6.0	6.3	6.0	6.0	4.7	5.7	6.0
PPG-PR 611	7.0	9.0	88.3	91.7	7.7	7.0	5.7	6.3	6.0	6.0	5.3	4.7	5.0	6.0
PPG-PR 664	7.7	9.0	91.7	93.3	7.0	6.7	5.3	7.0	6.3	6.0	6.0	4.3	5.0	6.0
PST-214	7.7	9.0	80.0	91.3	7.3	7.3	5.0	6.3	6.0	5.7	5.3	5.7	5.7	6.0
PST-2ADS	5.7	9.0	96.0	93.3	8.3	7.0	5.0	6.3	6.0	6.0	5.7	5.0	5.0	6.0
PST-2BGL	7.0	9.0	93.3	91.7	7.7	6.7	5.3	6.0	6.0	6.0	6.0	4.3	5.7	6.0
RPP3	6.0	9.0	94.7	93.3	8.3	6.7	5.0	6.0	6.0	5.7	6.0	5.3	5.0	6.0
LTP-RPP4	6.3	9.0	84.7	96.3	7.7	6.3	5.0	6.0	5.7	5.7	6.0	5.7	5.3	5.9
DLF-PR-3735	7.0	9.0	86.7	91.7	7.7	6.7	5.0	6.0	5.7	5.3	5.7	5.3	5.3	5.9
DLF-PR-3736	7.3	9.0	86.7	91.7	7.3	7.3	6.0	6.3	5.3	5.0	5.3	4.7	5.3	5.9
DLF-PR-3737	8.0	9.0	86.7	93.3	7.3	6.7	5.7	6.0	5.7	5.7	5.7	5.0	5.3	5.9
KARMA	7.0	9.0	93.3	90.0	8.3	7.0	5.3	6.0	6.0	6.0	5.0	4.3	4.7	5.9
PPG-PR 658	7.3	9.0	86.7	93.3	7.7	7.0	5.7	5.7	5.7	5.7	5.7	5.3	5.0	5.9
SGP4	7.7	9.0	95.0	94.7	8.0	6.7	5.3	6.0	6.0	6.0	6.3	4.3	4.7	5.9
HOMERUN LS	7.0	8.7	93.3	93.3	8.0	6.7	4.7	5.7	5.7	5.7	5.7	5.0	5.3	5.8
ALPHA CENTAURI	7.7	9.0	86.7	93.3	7.3	6.3	5.0	6.0	6.0	5.7	6.0	4.7	5.0	5.8
PPG-PR 647	6.7	9.0	86.3	93.0	7.3	6.7	4.3	5.7	5.7	6.0	6.0	5.3	5.3	5.8
BAR LP 22174	6.3	9.0	88.3	93.3	7.7	6.7	4.7	6.0	5.3	5.3	5.3	5.0	5.7	5.7
BRIGHTSTAR SLT	6.7	9.0	97.7	91.7	8.7	7.3	4.3	6.3	5.3	4.7	4.7	5.0	5.3	5.7
BAR LP 22262	6.3	9.0	93.3	88.3	8.0	7.7	5.0	6.7	5.0	4.3	4.3	4.3	5.3	5.6
BAR LP 22263	7.3	9.0	89.7	88.3	8.0	6.3	5.0	6.0	5.7	4.7	4.7	5.0	5.0	5.6
DARK MATTER	7.7	8.7	93.3	91.7	8.0	7.0	5.0	5.7	5.3	5.0	5.0	4.7	4.7	5.6
MRS�-PR22	8.0	9.0	95.0	86.7	8.0	6.3	5.0	5.7	5.3	5.0	4.7	5.0	5.0	5.6
BSG-PR22	8.7	9.0	86.7	90.0	7.3	6.7	4.3	6.3	6.0	5.0	5.0	4.3	4.7	5.5
SEPR-2013	7.3	9.0	80.0	88.3	7.0	6.0	4.0	6.0	5.7	5.3	4.3	5.0	5.3	5.4
PST-2SPF	9.0	9.0	73.3	83.3	6.3	6.0	5.0	5.3	5.3	4.7	4.3	4.3	5.0	5.1
LINN	1.0	8.3	99.0	78.3	5.0	2.3	2.0	2.7	2.3	2.3	2.3	2.0	3.7	2.7
LSD VALUE	0.6	0.8	35.8	7.1	1.4	1.6	1.5	1.3	0.9	1.0	1.5	1.3	2.2	0.6
C.V. (%)	5.8	2.0	9.7	3.9	8.5	11.7	14.9	10.4	8.6	10.3	14.1	13.4	12.2	6.2

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 14.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT WOOSTER, OH 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	SPRING DENSITY	PERCENT GROUND SPRING	COVER FALL	PERCENT ESTABLISHMENT	QUALITY RATINGS										MEAN
							APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
SGP4	7.3	3.3	6.0	78.3	50.0	20.0	6.7	7.3	5.7	4.7	5.0	5.0	4.7	5.0	4.3	5.4	
PPG-PR 658	7.0	3.7	6.7	76.7	51.7	25.0	6.7	7.0	5.3	5.3	5.3	5.0	5.0	4.7	3.7	5.3	
SILETZ	7.0	4.7	6.7	88.3	46.7	33.3	7.3	7.0	5.3	4.7	4.7	4.7	4.3	4.3	3.3	5.1	
DLF-PR-3729	6.7	3.7	6.0	78.3	55.0	18.3	6.0	6.7	4.3	5.3	5.3	4.7	4.7	4.7	4.3	5.1	
PPG-PR 665	7.0	3.7	6.7	81.7	43.3	20.0	6.7	7.0	5.7	5.3	4.7	4.3	4.0	4.3	3.0	5.0	
PST-2EGY	7.0	3.3	6.7	68.3	51.7	20.0	5.7	6.3	5.0	4.7	5.3	5.0	5.0	4.3	3.7	5.0	
BAR LP 22174	6.7	3.3	6.3	78.3	50.0	20.0	6.0	7.0	6.0	4.3	4.3	4.3	4.3	4.0	3.3	4.9	
BAR LP 22263	7.3	3.7	5.7	80.0	50.0	23.3	6.0	6.3	4.7	4.3	5.0	4.3	4.3	5.0	3.7	4.9	
DLF-PR-3736	7.0	3.7	7.0	81.7	55.0	25.0	6.3	6.3	5.0	5.0	4.7	4.7	4.7	4.3	3.3	4.9	
PPG-PR 606	8.0	2.7	6.3	71.7	45.0	28.3	6.7	6.3	5.7	5.0	4.7	4.7	4.3	4.3	2.7	4.9	
PS4	7.0	4.3	6.7	70.0	48.3	18.3	6.0	6.3	5.0	4.7	5.0	4.7	4.3	4.7	3.3	4.9	
RC20-020	7.0	3.3	6.0	80.0	41.7	18.3	6.7	6.7	5.0	5.0	4.3	4.0	3.7	4.3	3.3	4.8	
PPG-PR 610	7.3	3.3	7.0	71.7	45.0	21.7	5.3	6.3	5.0	5.3	4.7	4.3	4.0	4.3	4.0	4.8	
APS	6.7	3.0	6.7	68.3	40.0	16.7	5.3	5.7	5.7	5.3	4.7	4.0	3.7	4.0	3.7	4.7	
PVF-RPP2	6.7	2.7	6.0	76.7	46.7	16.7	6.0	6.7	5.0	4.7	4.7	4.0	4.0	4.0	2.7	4.6	
GRAY EAGLE SLT (PST-2MEG)	7.7	3.3	6.3	68.3	40.0	16.7	5.7	6.0	4.7	5.0	4.7	4.3	4.0	4.0	3.3	4.6	
PPG-PR 602	7.0	3.0	6.7	70.0	36.7	16.7	5.7	6.0	5.3	5.0	4.3	4.0	3.7	3.7	3.3	4.6	
ULTRA SPORT (PST-2HAF20)	7.0	2.3	6.3	65.0	43.3	13.3	5.3	6.0	5.0	4.3	4.7	4.7	4.0	4.0	3.0	4.6	
HOMERUN LS	6.7	4.0	7.3	86.7	45.0	26.7	7.3	5.7	4.3	4.7	4.0	3.7	3.7	3.7	3.7	4.5	
PPG-PR 639	7.3	3.7	6.7	70.0	31.7	18.3	6.3	7.0	5.3	4.3	4.0	4.0	3.3	3.3	2.7	4.5	
BAR LP 22191	7.0	4.3	6.0	73.3	44.0	21.7	6.0	6.0	5.0	3.7	4.0	4.0	4.0	4.0	3.0	4.4	
CJPLR	7.0	4.3	6.3	70.0	40.0	18.3	5.3	6.0	5.0	5.3	4.0	3.7	3.7	3.7	3.3	4.4	
ELEKTRA GLR (PPG-PR 671)	7.3	5.0	7.3	80.0	35.3	35.0	6.7	8.0	6.0	3.3	3.3	3.3	3.3	3.3	2.3	4.4	
STELLAR 4GL	7.0	2.3	6.0	63.3	40.0	11.7	4.7	5.7	5.0	4.3	4.0	4.0	3.7	4.0	3.3	4.3	
ALPHA CENTAURI	7.3	4.0	6.0	81.7	30.0	23.3	6.7	6.7	5.3	4.0	3.7	3.3	3.0	3.0	3.0	4.3	
BAR LP 22256	7.3	2.7	6.0	68.3	33.3	11.7	5.0	5.7	4.7	4.3	4.3	4.0	3.0	4.0	3.7	4.3	
DLF-PR-3726	7.0	4.0	6.7	73.3	30.0	23.3	6.3	6.7	5.0	3.7	4.0	3.3	3.3	3.3	2.7	4.3	
DLF-PR-3730	7.0	4.7	6.0	75.0	42.3	20.0	6.3	6.0	5.0	3.0	3.7	4.0	4.0	4.0	3.0	4.3	
NAI-PR5	6.3	4.7	7.0	91.7	23.3	30.0	8.0	7.7	5.0	3.3	3.3	3.0	2.7	3.3	2.3	4.3	
PPG-PR 644	6.7	3.0	6.0	78.3	36.7	21.7	6.0	6.7	5.0	4.0	3.3	3.7	3.7	3.3	3.0	4.3	
PST-2ADS	6.3	4.0	6.7	80.0	30.0	21.7	6.7	6.3	4.7	5.0	4.3	3.7	2.7	3.0	2.7	4.3	
PVF-SGS5	7.0	3.7	6.3	68.3	36.7	18.3	5.7	6.3	4.7	4.0	3.7	3.7	3.7	4.3	3.0	4.3	
QUASAR	6.3	5.7	7.0	78.3	33.3	31.7	7.0	6.0	4.7	3.7	4.0	3.7	3.7	3.3	2.7	4.3	
SEPR-2013	8.0	3.7	6.0	75.0	38.3	21.7	5.7	5.7	5.0	4.3	4.0	3.7	3.7	3.7	3.0	4.3	
GO-RUS20	6.3	3.3	6.7	76.7	30.0	20.0	6.3	6.3	5.3	4.0	3.3	3.3	3.3	2.7	3.0	4.2	
GO-RUS21	7.0	4.3	7.0	83.3	33.7	33.3	7.0	6.3	4.7	3.7	3.3	3.3	3.3	3.3	2.7	4.2	
20PR10	7.0	3.7	6.3	85.0	30.0	18.3	6.3	6.7	5.7	3.3	3.3	3.3	3.0	2.7	2.7	4.1	
DLF-PR-3737	7.3	3.3	6.0	66.7	35.0	15.0	5.0	5.3	4.7	4.0	4.3	4.0	3.7	3.0	3.0	4.1	
MRS�-PR22	7.3	4.0	5.7	71.7	40.0	30.0	5.3	5.7	3.7	4.3	4.3	4.0	3.0	3.3	3.3	4.1	
PPG-PR 637	6.7	3.0	6.7	71.7	33.7	13.3	5.3	6.0	5.0	4.0	3.7	3.7	3.3	3.0	2.7	4.1	
PPG-PR 662	7.0	4.0	7.0	76.7	28.7	20.0	6.3	6.7	5.0	3.7	3.3	3.3	3.0	3.0	2.7	4.1	
DLF-PR-3727	7.0	3.0	5.7	71.7	30.3	18.3	6.0	6.3	5.3	4.0	3.3	3.3	3.0	2.7	2.3	4.0	
DLF-PR-3728	7.0	3.3	6.3	61.7	30.0	23.3	5.0	5.7	5.0	4.0	3.7	3.7	3.3	3.3	2.7	4.0	
PPG-PR 667	7.3	3.0	6.3	70.0	28.3	16.7	5.3	6.0	5.3	4.3	4.0	3.0	2.7	3.0	2.7	4.0	
PST-2MES1	7.0	3.7	6.3	65.0	34.0	18.3	5.0	6.0	4.3	4.0	4.0	3.7	3.3	3.0	2.3	4.0	
BRIGHTSTAR SLT	7.0	3.7	7.0	58.3	26.7	16.7	4.3	5.3	4.7	3.7	4.3	3.7	3.0	3.0	2.7	3.9	
DLF-PR-3738	6.7	4.3	7.3	75.0	23.7	25.0	5.7	6.0	4.7	4.0	3.3	3.0	2.7	2.7	2.7	3.9	

TABLE 14.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER SHADE STRESS AT WOOSTER, OH 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	SPRING DENSITY	PERCENT GROUND COVER		PERCENT ESTABLISHMENT	QUALITY RATINGS								MEAN	
				SPRING	FALL		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		DEC
PPG-PR 611	6.7	3.3	6.3	80.0	30.3	15.0	6.7	6.3	4.7	3.3	3.3	3.0	3.0	2.3	2.3	3.9
PPG-PR 646	7.0	4.0	6.3	78.3	24.0	23.3	6.0	6.3	4.7	4.0	3.3	3.0	2.7	2.3	2.3	3.9
DARK MATTER	8.0	5.0	5.7	73.3	27.3	25.0	6.0	6.3	4.3	3.7	3.3	2.7	2.3	3.0	2.3	3.8
PISTON	7.0	4.0	6.0	71.7	23.3	20.0	6.0	6.0	5.0	3.3	3.0	3.0	2.7	3.0	2.0	3.8
PST-2E6	7.0	2.3	6.3	48.3	35.3	13.3	4.3	5.3	4.3	4.3	3.7	3.7	3.3	2.7	2.7	3.8
PST-2GDS	6.7	2.7	6.0	51.7	41.7	10.0	4.0	4.7	4.3	4.0	3.7	3.3	3.3	3.7	3.0	3.8
BAR LP 22262	6.7	2.3	6.0	73.3	25.3	13.3	5.3	6.0	4.7	3.7	3.3	3.0	2.7	2.3	2.7	3.7
KARMA	6.7	3.3	6.3	83.3	22.0	25.0	7.0	6.7	4.7	3.3	3.0	2.3	2.3	2.0	2.0	3.7
PPG-PR 620	6.7	2.3	6.3	65.0	34.0	16.7	5.0	5.3	4.7	3.3	3.3	3.3	3.3	3.0	2.3	3.7
PPG-PR 642	7.0	3.7	6.7	75.0	26.7	16.7	5.7	6.0	4.7	3.0	3.0	3.0	3.0	2.7	2.7	3.7
PPG-PR 643	7.0	3.3	6.0	60.0	28.3	16.7	5.0	6.0	4.7	2.7	3.0	3.0	3.0	3.3	2.3	3.7
PPG-PR 647	7.0	3.0	6.3	63.3	35.3	18.3	5.0	6.3	4.7	3.0	3.3	3.0	3.0	3.3	2.0	3.7
PPG-PR 664	7.0	4.0	6.3	78.3	23.7	16.7	7.0	6.7	5.3	2.3	2.7	2.7	2.3	2.7	2.0	3.7
PPG-PR 668	7.0	3.3	6.0	76.7	19.0	26.7	6.0	6.0	5.3	3.0	3.3	2.7	2.3	2.7	2.0	3.7
BY-PS2	7.0	4.3	6.0	61.7	33.3	16.7	5.0	5.3	4.0	3.0	3.3	3.3	3.3	2.7	2.0	3.6
LTP-NR	7.0	4.0	6.3	81.7	22.3	21.7	6.7	6.7	4.3	2.7	2.7	2.3	2.3	2.7	1.7	3.6
BSG-PR22	7.7	4.7	6.0	71.7	27.0	26.7	5.7	5.3	5.0	3.3	3.3	3.0	2.3	2.3	2.3	3.6
GO-RUS22	7.0	4.0	6.0	68.3	24.0	16.7	5.7	5.7	4.7	3.0	3.0	2.7	2.7	2.7	2.3	3.6
PPG-PR 670	7.3	4.0	7.0	75.0	20.3	20.0	6.3	6.3	6.0	3.0	2.7	2.3	2.0	2.3	1.7	3.6
PST-214	7.0	3.3	5.7	65.0	23.3	15.0	5.0	5.0	4.7	3.3	3.7	3.0	2.3	3.0	2.3	3.6
PST-2HFM	7.0	2.7	6.7	70.0	18.3	11.7	5.7	6.0	4.7	3.0	3.0	2.3	2.3	2.7	2.3	3.6
DLF-LGT-3066	6.7	3.0	6.3	50.0	35.7	10.0	4.0	4.7	4.0	3.0	3.7	3.3	3.0	3.0	3.0	3.5
PPG-PR 663	7.3	4.3	6.7	78.3	18.7	26.7	6.3	6.3	5.7	2.7	2.3	2.3	2.0	2.0	1.7	3.5
SE-DK	7.7	4.3	6.0	85.0	17.3	21.7	7.3	6.3	4.7	2.7	3.0	2.3	1.7	2.0	1.7	3.5
PPG-PR 666	7.0	3.3	6.7	71.7	24.7	15.0	5.3	6.3	5.3	2.3	2.7	2.3	2.3	2.3	1.7	3.4
PST-2DRG	7.0	2.3	6.3	65.0	22.3	11.7	5.3	6.3	4.3	2.7	2.7	2.3	2.3	2.3	2.3	3.4
LTP-RPP4	7.0	3.7	6.7	85.0	10.0	23.3	7.0	6.0	4.3	2.7	2.3	2.0	1.7	2.0	1.7	3.3
PPG-PR 661	7.0	3.7	7.0	71.7	21.0	16.7	5.7	5.7	4.3	3.0	2.7	2.3	2.3	1.7	2.0	3.3
RPP3	6.7	3.7	6.7	65.0	25.0	16.7	5.3	5.7	4.0	2.3	2.7	3.0	2.7	2.3	1.7	3.3
GREENBACK	7.3	5.3	6.3	73.3	18.7	25.0	6.0	6.0	4.0	2.7	2.3	2.3	2.0	2.0	1.7	3.2
DLF-PR-3735	7.0	2.7	6.3	61.7	21.7	10.0	4.7	5.3	4.7	2.7	2.7	2.7	2.3	2.3	1.7	3.2
LINN	3.7	6.0	6.0	78.3	34.0	26.7	3.3	4.3	2.3	3.3	3.3	3.3	3.3	2.7	3.0	3.2
PST-2BGL	7.0	2.0	6.7	43.3	23.7	6.7	3.7	4.7	4.3	2.7	2.7	2.7	2.7	2.3	2.0	3.1
HIGH OCTANE	7.0	3.0	6.0	60.0	19.0	13.3	5.3	5.3	3.3	2.3	2.3	2.3	2.3	2.3	1.7	3.0
PST-2SPF	7.7	3.3	6.7	43.3	25.3	26.7	3.3	4.0	3.7	3.0	2.7	2.7	2.7	2.3	2.3	3.0
TSC-CRS	7.3	3.3	6.0	68.3	14.0	16.7	4.7	5.3	3.7	2.3	2.3	2.3	1.7	1.7	1.7	2.9
LSD VALUE	0.6	2.6	1.3	28.3	56.5	25.8	2.7	1.6	1.5	3.1	3.8	3.6	2.9	3.9	2.6	2.2
C.V. (%)	5.5	29.7	8.6	17.4	50.3	44.0	20.7	13.3	15.5	32.5	33.5	34.3	35.2	39.5	35.8	20.5

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

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

TABLE 15.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST GUELPH, ON 1/
2023 DATA

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

NAME	GENETIC		PERCENT		QUALITY RATINGS						MEAN
	COLOR	ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
PPG-PR 647	7.3	51.7	6.0	6.7	7.3	8.0	7.7	8.0	7.3	7.3	
APS	7.0	70.0	7.0	6.7	7.3	8.0	6.3	8.0	7.3	7.2	
PPG-PR 611	7.0	61.7	6.7	6.7	7.7	7.3	7.3	7.3	6.7	7.1	
PPG-PR 620	8.0	50.0	5.0	6.0	7.7	7.3	7.7	7.7	7.3	7.0	
PPG-PR 637	7.0	46.7	6.0	6.3	7.0	7.3	7.7	7.7	7.3	7.0	
PPG-PR 661	7.3	56.7	6.0	6.7	8.0	7.3	8.0	7.0	6.3	7.0	
PVF-RPP2	8.0	48.3	5.3	5.7	6.7	7.7	8.0	7.7	7.3	6.9	
20PR10	6.3	58.3	6.7	6.0	7.3	7.0	8.0	7.0	6.3	6.9	
PVF-SGS5	7.0	56.7	5.3	5.7	7.0	7.7	7.3	7.7	7.3	6.9	
DLF-PR-3730	7.3	56.7	5.3	5.7	7.3	7.3	8.0	7.7	6.3	6.8	
PISTON	7.3	53.3	5.7	5.7	7.3	7.0	7.7	7.3	6.7	6.8	
PPG-PR 644	7.0	60.0	6.3	6.3	6.7	7.3	7.3	7.3	6.0	6.8	
PPG-PR 658	7.3	45.0	5.3	6.3	6.7	7.7	7.7	7.3	6.7	6.8	
PST-2ADS	7.0	55.0	6.0	5.7	7.0	7.0	7.3	7.7	6.7	6.8	
SILETZ	7.0	60.0	5.3	6.0	6.7	7.3	7.3	7.7	6.3	6.7	
PPG-PR 666	7.3	53.3	6.0	6.0	6.7	7.3	7.3	7.3	6.3	6.7	
PPG-PR 667	7.3	51.7	5.3	6.3	6.7	7.7	7.7	7.3	5.7	6.7	
BAR LP 22174	6.3	50.0	5.7	5.7	6.3	7.0	7.3	7.3	7.0	6.6	
DARK MATTER	8.0	65.0	6.0	5.7	7.7	7.0	6.3	7.3	6.0	6.6	
NAI-PR5	7.0	58.3	5.7	6.0	7.0	7.7	7.0	6.7	6.3	6.6	
PPG-PR 602	7.7	45.0	5.7	6.3	6.7	7.3	7.3	7.0	5.7	6.6	
PPG-PR 610	7.0	63.3	5.3	5.3	7.0	7.3	7.3	7.3	6.7	6.6	
PPG-PR 639	7.0	50.0	6.3	6.0	6.7	7.0	7.7	6.3	6.3	6.6	
PPG-PR 643	7.0	36.7	4.7	5.7	6.7	7.3	7.3	7.7	7.0	6.6	
PS4	7.3	43.3	5.3	5.7	7.0	7.0	6.7	7.3	7.0	6.6	
STELLAR 4GL	7.0	60.0	5.3	6.0	6.7	6.7	7.3	7.7	6.0	6.5	
BAR LP 22263	6.7	53.3	5.3	6.3	7.3	7.3	6.0	7.0	6.0	6.5	
PST-2BGL	7.7	48.3	4.0	5.3	6.7	7.3	7.3	7.3	7.3	6.5	
BY-PS2	7.3	46.7	4.3	5.3	6.7	7.7	7.3	7.0	6.7	6.4	
ALPHA CENTAURI	7.0	61.7	5.0	6.0	7.0	7.0	7.3	6.7	5.7	6.4	
DLF-PR-3728	7.3	50.0	5.0	5.3	6.3	7.0	7.7	7.0	6.7	6.4	
PPG-PR 665	7.0	60.0	5.3	6.3	6.7	7.3	7.0	6.7	5.3	6.4	
PPG-PR 668	7.3	46.7	6.0	6.3	7.0	6.7	6.7	6.7	5.3	6.4	
DLF-PR-3729	7.0	48.3	4.3	5.0	6.0	7.3	8.0	7.0	6.7	6.3	
DLF-PR-3738	7.0	45.0	4.7	5.0	7.0	6.7	6.7	7.3	6.7	6.3	
GO-RUS20	6.7	48.3	4.7	6.7	6.7	7.0	5.7	7.0	6.3	6.3	
GO-RUS21	6.7	56.7	5.7	5.3	6.3	6.7	6.7	6.7	6.7	6.3	
MRSI-PR22	8.0	56.7	6.0	6.0	7.0	6.7	6.7	6.7	5.0	6.3	
PST-2HFM	7.3	31.7	4.7	5.7	6.0	7.0	7.0	7.0	6.7	6.3	
PST-2MES1	6.7	50.0	5.0	5.7	6.7	6.7	7.3	7.3	5.3	6.3	
SE-DK	8.0	65.0	5.7	5.7	7.0	7.0	6.7	6.7	5.3	6.3	
KARMA	6.7	65.0	5.3	5.7	7.0	7.0	6.7	6.3	5.3	6.2	
PPG-PR 642	7.0	48.3	4.7	5.3	6.3	7.0	7.3	6.7	6.3	6.2	
QUASAR	6.7	53.3	5.0	5.0	6.3	6.7	7.3	7.0	6.0	6.2	
SGP4	7.0	40.0	4.7	5.7	6.3	7.0	7.0	7.0	5.7	6.2	
LTP-NR	7.0	40.0	4.3	5.0	6.0	6.7	7.0	7.0	7.0	6.1	
CJP1R	7.0	50.0	4.7	5.0	7.0	6.7	6.0	7.0	6.3	6.1	

TABLE 15.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST GUELPH, ON 1/
2023 DATA

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

NAME	GENETIC		PERCENT		QUALITY RATINGS						MEAN
	COLOR	ESTABLISHMENT	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
DLF-LGT-3066	6.0	36.7	4.7	5.3	6.3	6.0	6.0	6.7	7.7	6.1	
DLF-PR-3726	6.3	45.0	4.7	6.0	6.3	7.0	6.7	6.7	5.7	6.1	
DLF-PR-3735	7.3	35.0	3.7	4.0	6.3	6.7	8.0	7.3	7.0	6.1	
DLF-PR-3736	6.7	50.0	4.0	5.3	6.7	7.0	7.0	7.3	5.7	6.1	
GO-RUS22	7.3	43.3	5.0	5.3	6.3	6.0	7.0	7.0	6.0	6.1	
PPG-PR 606	7.3	48.3	4.0	5.7	6.3	7.3	7.0	6.3	6.3	6.1	
PPG-PR 670	7.3	46.7	4.3	6.0	7.0	7.3	6.3	6.7	5.3	6.1	
GREENBACK	7.0	50.0	5.3	5.7	5.7	6.7	6.0	6.7	5.7	6.0	
LTP-RPP4	7.0	46.7	3.7	4.3	5.7	7.0	7.7	6.7	7.3	6.0	
BAR LP 22191	6.3	43.3	5.7	6.7	6.0	6.3	6.0	5.7	5.3	6.0	
GRAY EAGLE SLT (PST-2MEG)	7.7	50.0	5.3	5.3	6.0	6.3	6.7	6.7	6.0	6.0	
HIGH OCTANE	7.0	33.3	4.3	5.0	5.7	6.7	7.0	6.7	6.3	6.0	
PPG-PR 662	7.3	55.0	5.3	5.7	6.0	6.7	7.0	6.7	4.7	6.0	
RPP3	7.0	50.0	4.7	4.3	5.7	6.7	7.3	7.0	6.3	6.0	
HOMERUN LS	6.0	60.0	5.0	5.3	6.3	6.0	6.0	7.0	5.3	5.9	
BRIGHTSTAR SLT	6.0	48.3	4.7	5.3	6.3	6.0	6.0	6.7	6.3	5.9	
ELEKTRA GLR (PPG-PR 671)	7.3	45.0	4.0	5.7	6.3	7.0	6.3	6.7	5.0	5.9	
PPG-PR 664	7.3	51.7	4.3	5.0	6.7	6.7	7.0	6.7	5.0	5.9	
PST-214	7.3	41.7	4.3	5.3	5.7	7.0	7.3	6.7	5.0	5.9	
PST-2E6	7.0	45.0	4.7	4.3	6.0	6.0	7.0	7.0	6.3	5.9	
PST-2GDS	6.7	30.0	4.0	5.3	5.3	6.7	7.0	6.7	6.3	5.9	
BAR LP 22256	6.3	60.0	4.3	4.7	7.0	6.7	5.7	6.0	6.0	5.8	
BAR LP 22262	5.7	40.0	4.7	5.3	6.0	6.3	6.3	6.3	5.3	5.8	
DLF-PR-3737	6.7	45.0	4.7	6.0	6.3	6.0	6.0	6.0	4.7	5.7	
PPG-PR 646	7.3	36.7	3.3	4.3	5.3	6.7	6.0	7.0	6.3	5.6	
PST-2SPF	8.0	55.0	3.7	3.7	5.0	5.3	7.0	8.0	6.7	5.6	
ULTRA SPORT (PST-2HAF20)	7.7	25.0	4.0	4.3	5.0	6.0	7.0	6.7	6.0	5.6	
RC20-020	6.3	41.7	3.3	4.7	5.0	6.3	7.0	6.0	6.0	5.5	
TSC-CRS	8.0	56.7	5.0	4.7	5.7	6.3	5.3	6.3	5.0	5.5	
DLF-PR-3727	6.7	51.7	5.0	6.0	5.0	5.7	6.0	5.7	4.3	5.4	
PPG-PR 663	7.0	38.3	3.3	4.7	6.0	6.7	6.0	6.0	5.3	5.4	
BSG-PR22	8.0	53.3	3.7	4.3	5.3	6.0	6.3	6.3	5.0	5.3	
PST-2EGY	6.7	41.7	3.7	4.7	5.0	6.3	6.0	6.3	5.3	5.3	
SEPR-2013	7.3	46.7	4.3	4.0	5.7	6.0	6.0	6.0	4.7	5.2	
PST-2DRG	6.7	38.3	3.3	4.7	5.0	5.7	6.3	5.7	5.0	5.1	
LINN	3.7	51.7	4.7	4.7	4.7	5.3	4.0	4.7	6.0	4.9	
LSD VALUE	0.8	26.6	3.3	2.6	3.9	1.9	1.4	2.1	1.9	1.5	
C.V. (%)	6.9	23.4	24.6	18.3	17.9	11.6	11.4	12.1	15.4	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.

TABLE 16.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	QUALITY RATINGS												MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPG-PR 644	8.0	7.3	5.7	6.0	6.3	6.3	7.0	6.7	7.7	8.3	8.3	8.3	8.7	8.0	7.3
DLF-PR-3728	8.0	7.3	5.3	5.3	6.0	6.0	7.0	6.0	8.7	8.3	8.0	8.0	8.7	7.3	7.1
GRAY EAGLE SLT (PST-2MEG)	8.3	7.7	6.3	6.7	6.7	6.7	7.0	6.0	7.7	7.3	7.3	7.0	7.7	7.3	7.0
PPG-PR 664	8.7	7.0	5.7	5.7	6.0	5.7	7.0	6.7	7.7	7.7	8.0	8.0	8.3	7.3	7.0
LTP-RPP4	8.0	7.7	5.7	5.7	5.7	5.3	7.0	7.0	8.0	8.3	8.0	8.0	7.7	7.0	6.9
NAI-PR5	8.0	7.7	6.3	7.0	7.0	6.3	6.3	5.3	7.3	7.7	8.0	7.3	7.7	6.3	6.9
PPG-PR 637	8.0	7.7	5.0	5.0	5.3	5.3	7.3	5.7	8.3	8.0	8.3	7.7	8.7	7.7	6.9
APS	7.7	7.7	5.3	5.7	5.7	5.7	7.0	7.0	7.7	7.7	7.7	7.0	7.3	7.3	6.8
BSG-PR22	9.0	7.3	7.3	6.7	6.7	5.7	7.3	6.0	7.7	8.0	7.3	7.3	6.7	5.3	6.8
PPG-PR 611	8.0	7.3	5.7	5.0	5.3	5.7	7.3	7.3	8.0	7.7	7.7	8.0	7.0	6.3	6.8
PPG-PR 639	8.3	7.3	6.0	6.0	6.0	5.3	7.0	6.0	7.7	7.7	7.7	8.3	7.3	6.0	6.8
PPG-PR 643	8.0	7.7	5.3	5.3	5.7	5.7	7.0	6.7	8.0	7.0	8.0	7.7	7.7	7.3	6.8
PPG-PR 661	8.0	7.3	5.7	5.7	6.3	6.3	7.0	6.7	7.7	7.7	7.7	7.0	7.0	6.7	6.8
PPG-PR 665	8.0	7.3	5.3	5.0	5.7	5.7	7.0	6.7	8.0	8.0	8.0	8.0	7.3	6.3	6.8
DLF-PR-3729	7.7	6.3	5.3	5.0	5.3	5.3	6.7	6.3	8.0	8.0	8.0	7.7	7.7	6.7	6.7
ELEKTRA GLR (PPG-PR 671)	8.0	7.0	5.3	5.0	6.0	6.0	7.0	5.7	7.7	8.3	7.0	8.3	7.7	6.0	6.7
PPG-PR 646	8.3	7.0	5.3	5.7	6.0	6.0	7.0	6.0	7.3	7.7	7.7	7.0	8.0	7.0	6.7
PPG-PR 647	8.0	7.7	6.0	6.7	6.7	5.7	6.3	5.7	7.7	7.3	7.3	7.0	7.3	6.7	6.7
PPG-PR 658	8.3	7.3	5.3	5.3	5.3	5.3	7.3	6.3	8.0	7.7	7.3	7.3	7.7	7.0	6.7
PPG-PR 670	8.0	7.0	5.3	5.3	5.7	5.7	6.3	5.7	8.0	8.0	7.7	8.0	7.7	7.3	6.7
PST-214	8.3	7.3	5.7	5.7	6.0	6.0	7.0	6.0	8.0	7.3	7.3	6.7	7.7	6.7	6.7
PST-2E6	8.0	7.7	5.3	5.3	5.7	5.3	7.3	7.0	8.0	7.7	7.3	7.7	7.3	6.7	6.7
PST-2HFM	8.3	7.0	5.0	5.3	5.7	5.7	6.7	7.0	8.3	8.7	7.3	7.0	7.7	6.3	6.7
SE-DK	8.7	7.0	7.3	6.3	6.3	6.0	6.7	5.7	7.3	7.3	7.3	7.3	6.7	5.7	6.7
STELLAR 4GL	7.7	7.3	5.7	5.7	5.7	5.7	7.0	6.3	7.0	7.7	7.3	7.7	8.0	7.0	6.7
CJPIR	8.0	6.7	5.3	5.3	6.0	6.0	7.0	5.7	7.0	7.0	7.7	6.7	8.0	7.0	6.6
DLF-PR-3727	7.3	7.3	5.7	5.7	6.0	6.0	6.7	7.0	8.0	8.0	7.3	7.7	6.3	5.0	6.6
GO-RUS21	7.3	8.0	6.0	6.0	6.0	5.7	7.0	6.7	8.0	8.0	6.7	8.0	5.7	5.3	6.6
HIGH OCTANE	7.7	6.7	5.3	5.7	6.0	5.7	6.3	6.7	7.3	7.7	7.7	7.0	7.0	6.7	6.6
PPG-PR 606	8.3	7.0	6.0	5.3	5.7	5.7	7.0	6.3	7.7	8.0	7.3	7.0	7.0	6.7	6.6
PST-2BGL	8.3	7.3	5.3	5.0	5.3	5.3	7.0	5.3	8.0	7.7	8.0	7.7	7.7	7.3	6.6
PST-2MES1	8.0	8.0	5.7	5.7	6.0	6.0	7.0	6.3	7.7	8.3	7.0	6.7	7.0	6.3	6.6
PVF-RPP2	8.0	6.3	5.3	5.3	5.7	5.7	7.3	6.0	7.7	7.3	7.3	7.0	7.7	7.0	6.6
RC20-02O	8.0	8.0	5.7	6.0	6.3	6.3	6.3	6.3	7.0	7.3	8.0	7.0	7.0	6.0	6.6
SILETZ	7.7	6.7	5.7	5.7	6.3	6.3	6.3	5.3	6.7	7.3	7.7	8.0	7.0	6.3	6.6
BY-PS2	8.0	7.0	5.3	5.3	5.7	5.7	7.0	5.3	7.7	7.3	7.7	7.3	7.0	6.3	6.5
DLF-PR-3737	8.0	6.3	5.3	5.3	5.3	5.0	7.0	6.0	7.7	8.0	7.0	8.0	7.7	6.0	6.5
DLF-PR-3738	8.0	6.7	5.0	5.3	5.3	5.0	6.7	6.3	7.7	7.7	7.3	7.0	8.0	6.7	6.5
HOMERUN LS	7.7	7.3	5.3	5.0	5.7	5.7	6.7	5.7	7.3	8.0	7.7	7.7	6.3	6.7	6.5
LTP-NR	8.0	7.0	5.3	6.0	6.0	5.3	7.0	5.7	8.3	8.0	6.7	7.0	6.7	5.7	6.5
MRS�-PR22	9.0	7.0	7.3	6.3	6.3	6.0	7.0	6.0	7.3	7.0	7.0	6.7	6.3	5.0	6.5
PPG-PR 610	8.0	7.7	5.7	5.3	5.3	5.0	7.0	6.7	8.0	7.7	7.3	7.3	7.0	5.7	6.5
PPG-PR 663	8.0	7.0	5.0	5.0	5.7	5.7	7.0	6.7	8.0	8.3	7.0	7.3	6.7	5.7	6.5
PS4	8.0	7.0	5.0	5.0	5.7	5.7	7.0	6.0	7.3	7.3	8.0	7.0	7.3	6.7	6.5
PST-2ADS	7.7	7.0	4.7	4.7	5.0	5.0	6.3	6.7	8.0	8.3	7.0	7.3	8.0	6.7	6.5
QUASAR	7.3	6.7	6.0	5.7	5.7	5.7	6.3	5.7	7.0	8.0	7.0	7.3	7.3	6.0	6.5
RPP3	7.7	7.0	5.3	5.7	5.7	5.7	6.7	5.7	7.3	7.0	7.3	7.3	7.7	6.7	6.5

TABLE 16.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT CORVALLIS, OR 1/
2023 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	QUALITY RATINGS												MEAN
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SGP4	8.0	6.7	5.3	5.0	5.0	4.7	7.0	6.0	8.0	7.7	7.7	7.3	8.0	6.7	6.5
20PR10	7.3	7.7	5.3	5.0	6.0	6.0	6.3	6.7	8.0	8.0	6.7	7.3	6.3	5.0	6.4
ALPHA CENTAURI	8.0	7.0	4.7	4.7	5.0	5.0	6.7	6.7	8.3	8.3	7.3	7.3	7.0	6.0	6.4
DARK MATTER	8.0	7.0	6.7	6.3	6.3	6.3	7.0	5.7	7.0	7.0	6.3	6.7	6.0	5.3	6.4
DLF-PR-3735	8.0	5.7	4.3	4.7	4.7	4.7	7.0	5.7	7.7	7.7	7.7	7.3	8.3	7.3	6.4
PPG-PR 620	8.0	7.7	4.3	4.3	4.7	4.3	6.3	7.7	8.0	7.3	7.7	7.3	7.7	6.7	6.4
PPG-PR 666	7.7	7.3	5.7	6.0	6.3	6.0	6.7	5.3	7.7	7.3	6.7	7.3	6.3	5.0	6.4
PPG-PR 667	8.0	7.3	5.3	5.3	6.0	6.0	6.7	6.0	8.0	7.3	6.7	7.0	7.0	5.3	6.4
PPG-PR 668	7.7	7.0	5.3	5.3	5.3	5.0	6.7	6.0	7.7	8.3	6.7	7.7	7.3	5.7	6.4
PST-2EGY	7.3	7.3	5.7	5.7	6.0	6.0	6.7	5.7	7.0	8.3	6.7	6.3	6.7	6.0	6.4
PST-2GDS	8.3	7.0	5.7	5.7	5.7	5.7	6.7	5.3	7.7	7.7	7.0	6.7	7.0	6.0	6.4
ULTRA SPORT (PST-2HAF20)	8.3	6.7	4.7	4.7	5.0	5.0	7.0	6.7	8.0	7.7	7.0	7.0	7.3	6.3	6.4
DLF-PR-3726	7.3	7.0	6.0	5.7	6.0	6.0	6.0	6.3	7.3	7.3	6.3	7.3	6.0	5.3	6.3
DLF-PR-3730	8.0	6.3	5.3	4.3	4.7	4.7	6.3	5.3	8.3	8.3	7.3	7.7	7.7	6.0	6.3
PPG-PR 662	7.7	8.0	5.0	5.3	5.7	5.7	6.7	6.3	8.0	8.0	7.0	6.7	6.0	5.3	6.3
GO-RUS22	7.3	7.0	5.0	5.0	5.3	5.3	6.7	6.3	7.7	7.7	7.0	7.3	5.7	5.0	6.2
PISTON	7.7	7.0	5.3	5.7	6.0	6.0	6.3	5.7	7.0	7.0	7.3	6.3	6.3	5.7	6.2
PPG-PR 602	7.7	7.0	5.7	5.7	6.0	6.0	6.7	5.0	7.7	7.0	6.3	6.0	6.3	5.7	6.2
PPG-PR 642	7.7	7.0	5.3	5.3	5.3	5.3	6.3	5.7	7.0	7.3	7.3	7.3	6.3	6.0	6.2
DLF-PR-3736	7.3	6.7	5.0	5.0	5.3	5.3	6.7	5.7	8.3	7.7	6.7	7.0	6.0	4.7	6.1
PVF-SGS5	7.3	6.7	5.7	5.0	5.0	5.0	6.7	5.3	7.7	7.7	7.0	6.3	6.3	5.0	6.1
TSC-CRS	8.3	7.0	6.7	6.0	6.0	5.3	6.7	5.3	7.0	7.3	6.0	5.7	5.7	5.0	6.1
GO-RUS20	6.7	7.7	5.7	5.0	5.7	5.7	6.7	6.7	7.7	7.3	5.7	6.3	5.0	4.3	6.0
GREENBACK	8.0	7.3	7.0	6.3	6.3	5.7	6.0	5.0	6.7	7.3	6.3	6.3	5.0	4.3	6.0
KARMA	7.0	6.7	5.0	5.0	5.3	5.3	6.3	6.3	7.3	7.7	6.7	6.3	6.0	5.0	6.0
PST-2DRG	7.7	7.0	5.3	5.3	5.7	5.7	6.7	6.0	7.7	7.0	6.0	5.7	5.3	5.0	5.9
PST-2SPF	8.3	7.3	6.7	5.7	5.0	4.3	7.3	5.3	7.0	6.7	7.0	5.3	5.0	5.3	5.9
SEPR-2013	8.3	8.0	4.7	5.0	5.0	4.7	6.7	5.0	7.0	7.0	7.0	7.0	7.0	5.0	5.9
BAR LP 22191	6.7	7.3	5.3	5.3	5.3	5.0	6.7	7.0	7.7	7.3	5.7	6.0	4.7	4.0	5.8
BRIGHTSTAR SLT	7.0	6.3	5.0	5.3	5.7	5.7	6.3	6.3	7.0	7.0	6.0	5.7	5.3	4.7	5.8
BAR LP 22174	6.7	7.0	4.3	4.3	5.3	5.3	6.7	6.7	6.7	6.7	5.7	6.0	4.7	4.3	5.6
BAR LP 22263	7.0	7.0	5.3	5.3	5.3	5.0	6.3	5.7	6.7	6.7	5.7	6.0	5.0	4.7	5.6
DLF-LGT-3066	6.7	5.7	4.7	4.7	5.0	5.0	7.0	5.3	7.0	8.0	4.7	5.3	5.0	4.3	5.5
BAR LP 22256	6.7	6.7	4.3	4.3	4.3	4.3	6.7	6.3	7.0	6.3	5.3	6.0	4.7	4.3	5.3
BAR LP 22262	6.7	7.0	4.3	4.0	4.3	4.3	6.0	6.0	7.3	6.7	5.7	5.7	4.7	4.0	5.3
LINN	4.7	6.0	4.0	3.0	3.0	2.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.1
LSD VALUE	0.7	1.3	1.0	1.3	1.4	1.4	0.9	2.4	1.4	2.0	1.3	2.2	1.4	1.2	0.6
C.V. (%)	5.8	8.6	10.6	13.0	12.6	13.2	7.2	14.2	8.8	10.5	10.8	14.0	12.8	12.8	6.1

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

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

TABLE 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST QUEBEC CITY (CANADA), QE 1/
2023 DATA

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

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	JUL	QUALITY RATINGS			MEAN
				AUG	SEP	OCT	
PPG-PR 668	6.0	66.7	7.0	7.7	6.7	6.3	6.9
PPG-PR 639	6.3	66.7	6.7	8.0	6.3	6.0	6.8
PPG-PR 658	6.3	76.7	6.7	6.7	7.0	6.3	6.7
20PR10	4.7	70.0	6.3	7.0	6.7	6.3	6.6
PISTON	5.3	66.7	6.7	6.0	7.0	6.7	6.6
PPG-PR 647	5.7	60.0	6.7	5.7	7.0	7.0	6.6
PVF-RPP2	5.3	73.3	6.3	5.3	7.3	7.0	6.5
APS	5.3	73.3	7.0	6.3	6.7	6.0	6.5
CJP1R	5.7	66.7	6.7	5.7	6.7	7.0	6.5
PPG-PR 665	5.7	73.3	6.3	6.7	6.7	6.3	6.5
PPG-PR 670	5.7	66.7	6.0	7.3	6.7	6.0	6.5
PS4	5.0	63.3	6.3	7.0	6.3	6.3	6.5
PST-2SPF	6.0	70.0	6.0	7.0	7.0	6.0	6.5
STELLAR 4GL	5.7	66.7	7.0	5.7	6.7	6.0	6.3
DLF-PR-3729	5.7	73.3	6.7	5.3	7.0	6.0	6.3
NAI-PR5	5.7	70.0	7.0	5.7	6.3	6.0	6.3
PPG-PR 610	5.3	60.0	6.0	6.7	6.3	6.0	6.3
PPG-PR 637	5.0	60.0	5.7	6.7	6.7	6.3	6.3
PST-214	6.0	70.0	6.3	5.3	7.3	6.3	6.3
PST-2BGL	6.3	70.0	7.0	5.3	6.7	6.0	6.3
PVF-SGS5	4.7	70.0	6.0	7.3	6.0	5.7	6.3
SGP4	4.7	73.3	6.0	6.7	6.7	5.7	6.3
RC20-020	5.3	66.7	6.3	6.3	6.3	5.7	6.2
DLF-PR-3738	6.3	56.7	5.7	6.0	7.0	6.0	6.2
PPG-PR 642	5.7	60.0	5.7	7.0	6.7	5.3	6.2
PPG-PR 661	5.0	73.3	6.3	6.3	6.0	6.0	6.2
PPG-PR 662	6.3	60.0	6.3	6.3	6.0	6.0	6.2
PPG-PR 664	5.7	66.7	6.0	6.0	6.7	6.0	6.2
PST-2HFM	5.0	66.7	5.7	6.0	7.0	6.0	6.2
SILETZ	5.7	73.3	7.0	5.7	6.3	5.3	6.1
ELEKTRA GLR (PPG-PR 671)	5.0	70.0	5.7	6.3	6.3	6.0	6.1
PPG-PR 666	5.3	60.0	5.3	7.0	6.0	6.0	6.1
PST-2ADS	5.7	73.3	6.3	5.7	6.7	5.7	6.1
DLF-PR-3726	5.7	73.3	6.3	6.0	6.0	5.7	6.0
PPG-PR 606	4.7	60.0	5.3	6.0	6.7	6.0	6.0
PPG-PR 611	4.7	66.7	5.3	6.7	6.3	5.7	6.0
PPG-PR 620	5.7	66.7	5.7	7.0	6.0	5.3	6.0
PPG-PR 663	6.3	56.7	6.0	6.3	6.3	5.3	6.0
PPG-PR 667	5.7	60.0	5.3	6.7	6.0	6.0	6.0
ALPHA CENTAURI	6.0	66.7	6.0	6.3	6.0	5.3	5.9
DLF-PR-3727	5.7	73.3	6.7	5.7	5.3	6.0	5.9
DLF-PR-3735	5.3	56.7	6.0	4.7	6.7	6.3	5.9
PST-2E6	5.7	70.0	6.3	5.3	6.3	5.7	5.9
PST-2EGY	4.7	53.3	5.7	7.0	5.7	5.3	5.9
ULTRA SPORT (PST-2HAF20)	6.0	73.3	6.7	5.0	6.0	6.0	5.9
HOMERUN LS	5.0	76.7	6.3	5.3	6.3	5.3	5.8
LTP-RPP4	4.7	56.7	4.7	6.0	6.3	6.3	5.8

TABLE 17.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST QUEBEC CITY (CANADA), QE 1/
2023 DATA

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

NAME	GENETIC COLOR	PERCENT ESTABLISHMENT	QUALITY RATINGS				MEAN
			JUL	AUG	SEP	OCT	
DLF-PR-3736	5.7	66.7	6.7	5.3	5.7	5.7	5.8
GO-RUS21	4.3	66.7	6.0	5.0	6.3	5.7	5.8
GO-RUS22	6.0	63.3	6.3	5.0	6.0	5.7	5.8
KARMA	5.3	66.7	6.3	6.0	5.3	5.3	5.8
MRS�-PR22	6.7	70.0	5.7	7.0	5.0	5.3	5.8
PPG-PR 646	5.3	53.3	5.7	5.7	6.7	5.3	5.8
PST-2MES1	6.3	60.0	5.7	6.3	5.7	5.7	5.8
QUASAR	5.0	66.7	5.7	5.7	6.3	5.3	5.8
BY-PS2	5.0	53.3	6.3	4.7	6.0	5.7	5.7
BAR LP 22174	4.0	63.3	5.7	7.3	5.0	4.7	5.7
DLF-PR-3730	4.7	63.3	5.0	4.7	7.0	6.0	5.7
PPG-PR 602	4.7	70.0	5.7	6.3	5.7	5.0	5.7
PPG-PR 644	5.3	66.7	5.3	5.3	6.0	6.0	5.7
PST-2DRG	4.3	63.3	5.3	7.3	5.0	5.0	5.7
PST-2GDS	5.3	66.7	5.7	5.7	6.0	5.3	5.7
SEPR-2013	5.3	53.3	5.7	6.3	5.7	5.0	5.7
BAR LP 22191	5.0	76.7	5.7	7.0	4.7	5.0	5.6
BAR LP 22256	5.7	50.0	6.0	6.7	5.0	4.7	5.6
DLF-LGT-3066	4.3	50.0	6.3	6.0	4.7	5.3	5.6
DLF-PR-3728	5.3	63.3	6.7	4.7	5.3	5.7	5.6
GRAY EAGLE SLT (PST-2MEG)	5.3	60.0	5.7	5.0	5.7	6.0	5.6
HIGH OCTANE	4.7	63.3	5.3	6.0	5.7	5.3	5.6
RPP3	4.3	63.3	5.0	6.0	6.3	5.0	5.6
GREENBACK	6.0	66.7	7.0	5.3	5.0	4.7	5.5
LTP-NR	4.7	60.0	5.0	5.3	6.3	5.3	5.5
BAR LP 22263	4.0	63.3	5.3	7.3	4.7	4.7	5.5
DLF-PR-3737	5.0	63.3	5.7	5.0	5.7	5.7	5.5
GO-RUS20	5.0	53.3	5.7	5.3	5.7	5.3	5.5
DARK MATTER	5.7	60.0	5.7	6.3	4.7	5.0	5.4
PPG-PR 643	4.0	50.0	5.0	4.7	6.7	5.3	5.4
BAR LP 22262	5.0	66.7	5.7	6.3	4.3	5.0	5.3
BRIGHTSTAR SLT	5.3	63.3	5.7	5.3	4.7	5.3	5.3
TSC-CRS	5.0	70.0	5.3	5.3	5.3	5.0	5.3
SE-DK	6.3	56.7	5.0	5.3	5.7	4.7	5.2
LINN	3.3	53.3	5.3	6.0	4.3	4.0	4.9
BSG-PR22	5.7	63.3	4.7	5.0	5.0	4.3	4.8
LSD VALUE	4.1	44.1	3.9	1.1	1.2	2.7	1.1
C.V. (%)	20.4	17.4	16.7	10.9	11.6	15.7	8.8

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 18.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
2023 DATA

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

NAME	SPRING	SEEDLING	PINK SNOW	QUALITY	QUALITY RATINGS						MEAN
	GREENUP	VIGOR	MOLD	OCT 2022	MAY	JUN	JUL	AUG	SEP	OCT	
PST-214	4.7	7.3	5.0	5.7	5.7	8.3	8.7	7.7	8.3	7.0	7.6
SILETZ	6.3	8.0	3.0	6.3	6.3	7.3	7.3	7.7	8.7	8.0	7.6
PST-2HFM	5.3	7.7	4.3	5.7	5.3	8.0	8.3	8.0	8.0	6.7	7.4
ULTRA SPORT (PST-2HAF20)	5.0	7.0	4.3	6.0	5.7	8.0	8.3	7.7	8.0	7.0	7.4
PPG-PR 670	3.7	8.0	6.0	7.0	5.7	8.0	8.0	7.3	7.7	7.3	7.3
DLF-PR-3738	4.3	7.0	4.0	5.0	6.3	7.3	8.0	7.0	7.3	7.0	7.2
PPG-PR 606	4.7	7.3	5.0	5.7	6.0	8.0	8.0	7.3	7.7	6.3	7.2
PPG-PR 664	4.0	8.0	6.0	6.3	5.3	7.7	7.7	7.3	8.0	7.0	7.2
APS	5.3	7.7	3.7	5.3	6.3	6.7	7.7	7.0	7.7	7.3	7.1
DLF-PR-3730	4.3	7.7	4.7	5.0	6.3	7.0	7.0	7.3	8.0	6.7	7.1
DLF-PR-3736	4.7	7.7	4.7	5.3	5.7	7.3	7.7	7.0	7.7	7.3	7.1
GO-RUS21	4.3	7.7	5.3	6.3	6.0	7.0	7.3	7.0	7.7	7.3	7.1
PPG-PR 663	4.0	8.0	5.7	6.0	5.0	7.7	8.0	7.3	7.3	7.0	7.1
PST-2GDS	5.3	8.0	4.0	6.7	6.3	7.0	6.7	7.0	8.0	7.3	7.1
DLF-PR-3728	4.3	7.7	4.7	6.0	6.0	7.3	7.7	7.3	7.0	6.7	7.0
LTP-RPP4	4.7	8.0	4.7	6.3	5.3	7.7	7.7	7.0	7.3	7.0	7.0
NAI-PR5	5.7	7.7	3.0	6.0	6.0	7.0	7.7	7.0	7.0	7.3	7.0
PPG-PR 661	4.0	7.3	6.0	6.0	6.3	7.0	7.3	7.0	7.7	6.7	7.0
PST-2EGY	5.0	8.3	4.7	7.0	6.0	6.3	7.3	7.3	7.3	7.7	7.0
BAR LP 22191	6.0	7.3	4.0	6.7	6.7	6.7	7.7	7.3	7.3	6.0	6.9
ELEKTRA GLR (PPG-PR 671)	4.3	8.0	5.7	6.7	5.3	7.7	7.7	6.7	7.0	7.0	6.9
PPG-PR 658	4.3	7.3	5.3	6.0	6.0	7.7	7.3	7.0	7.0	6.3	6.9
PPG-PR 667	3.7	7.7	6.7	6.0	5.7	7.3	7.3	7.0	7.3	6.7	6.9
STELLAR 4GL	5.7	7.7	5.0	5.0	5.7	7.3	7.7	7.3	6.7	6.7	6.9
BY-PS2	4.3	7.7	5.0	4.7	6.0	7.0	7.3	7.0	6.7	6.7	6.8
DLF-PR-3729	3.7	7.7	5.7	5.7	5.7	7.3	7.7	7.0	7.0	6.0	6.8
PPG-PR 662	3.7	7.3	6.3	6.3	5.3	7.7	6.0	7.3	7.7	6.7	6.8
PST-2BGL	4.0	7.7	5.7	6.0	5.3	6.7	7.0	7.0	7.7	7.3	6.8
PST-2MES1	4.0	7.0	5.7	5.7	6.3	6.0	7.7	6.7	7.7	6.3	6.8
BAR LP 22174	6.7	8.0	2.7	5.3	6.0	7.7	7.3	6.0	7.0	6.0	6.7
DLF-PR-3735	4.7	7.0	4.3	5.3	5.7	7.0	7.3	7.0	7.0	6.3	6.7
HOMERUN LS	5.3	7.7	5.7	5.3	5.7	6.7	7.0	7.0	7.0	6.7	6.7
PPG-PR 610	3.7	7.7	6.7	6.3	5.0	7.3	7.7	6.0	7.7	6.7	6.7
PST-2DRG	3.0	7.7	6.7	6.0	4.7	6.7	6.7	6.3	8.3	7.3	6.7
RPP3	4.7	7.7	4.7	5.3	5.3	6.3	7.3	6.7	7.3	7.0	6.7
DLF-PR-3726	4.7	7.3	5.3	5.7	5.7	6.3	7.3	6.3	7.3	6.3	6.6
DLF-PR-3727	4.3	7.7	5.0	6.0	5.7	6.0	7.3	7.3	7.0	6.3	6.6
GO-RUS22	4.0	7.7	6.3	5.7	5.0	6.7	6.7	7.0	7.3	7.0	6.6
GREENBACK	5.0	8.3	4.7	5.3	6.0	7.0	7.0	6.0	7.0	6.3	6.6
LTP-NR	3.7	8.3	6.3	5.3	5.3	7.3	7.7	5.7	6.7	7.0	6.6
PPG-PR 611	4.0	8.0	7.0	6.7	6.0	7.0	6.7	7.0	6.7	6.3	6.6
PPG-PR 637	3.0	8.0	7.3	5.3	4.7	6.7	7.3	7.0	7.0	6.7	6.6
PST-2ADS	4.0	7.7	7.0	5.7	5.0	6.3	7.7	7.3	7.0	6.0	6.6
ALPHA CENTAURI	4.7	8.0	5.3	5.7	5.3	7.3	7.0	6.3	7.0	6.0	6.5
PS4	4.0	7.0	5.7	5.3	5.0	6.7	6.3	6.7	8.0	6.3	6.5
SGP4	4.0	7.0	5.7	5.7	5.7	6.7	6.0	6.7	7.3	6.7	6.5
20PR10	4.7	7.7	4.7	5.7	6.0	6.3	7.0	6.0	7.3	6.0	6.4

TABLE 18.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT LOGAN, UT 1/
2023 DATA

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

NAME	QUALITY RATINGS										
	SPRING GREENUP	SEEDLING VIGOR	PINK SNOW MOLD	QUALITY OCT 2022	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CJP1R	4.0	7.0	5.0	5.0	5.7	6.3	6.3	6.7	6.7	6.7	6.4
PPG-PR 668	3.7	8.0	6.7	6.3	5.0	6.7	7.0	6.7	7.0	6.0	6.4
PST-2E6	4.3	7.7	5.3	6.0	5.3	6.7	6.7	6.7	6.7	6.7	6.4
PVF-RPP2	3.0	8.0	7.3	6.0	5.3	7.3	7.3	6.3	6.7	5.3	6.4
PVF-SGS5	4.3	7.3	6.3	4.7	5.0	6.0	7.0	6.7	7.3	6.3	6.4
BAR LP 22256	5.0	7.0	4.3	5.7	5.7	6.7	7.0	6.3	6.7	5.7	6.3
BAR LP 22263	4.3	7.7	4.0	5.7	5.0	6.3	7.3	6.3	7.0	5.7	6.3
PPG-PR 602	4.0	8.0	7.0	5.0	5.0	7.0	6.7	7.0	6.0	6.0	6.3
PPG-PR 642	4.0	7.7	5.3	5.3	5.3	5.7	6.7	6.3	7.3	6.7	6.3
PPG-PR 644	4.0	7.3	5.7	6.3	6.0	5.7	6.3	6.3	6.7	7.0	6.3
PPG-PR 646	4.0	7.3	6.0	5.0	5.0	6.0	6.7	6.7	7.0	6.3	6.3
PPG-PR 647	4.0	8.0	5.7	5.7	5.0	6.7	7.3	6.3	6.7	5.7	6.3
PPG-PR 665	3.7	8.3	6.3	6.3	5.7	6.7	6.3	6.7	6.7	5.7	6.3
QUASAR	4.0	7.7	5.7	5.3	4.7	6.0	6.0	6.3	8.0	6.7	6.3
SEPR-2013	4.7	7.0	4.7	4.7	5.0	6.0	7.0	6.3	7.0	6.3	6.3
DARK MATTER	3.3	8.3	6.7	5.3	4.7	6.7	6.3	6.3	6.3	6.7	6.2
DLF-PR-3737	4.7	7.0	5.3	5.3	6.0	6.0	6.3	5.7	7.0	6.0	6.2
GRAY EAGLE SLT (PST-2MEG)	3.7	8.0	6.3	5.3	4.3	6.7	6.3	6.3	7.0	6.3	6.2
MRSI-PR22	3.3	8.0	7.0	5.0	5.3	6.7	6.7	6.0	6.7	6.0	6.2
PPG-PR 666	3.3	7.7	6.7	5.3	4.7	7.0	6.3	6.0	6.7	6.3	6.2
KARMA	4.7	8.0	5.7	6.0	5.7	6.7	5.7	5.7	7.0	5.7	6.1
PISTON	4.7	8.0	6.0	5.3	5.3	5.7	6.3	6.0	7.3	6.0	6.1
PPG-PR 620	3.0	7.0	7.0	5.3	5.7	6.3	7.0	6.3	6.3	5.0	6.1
BAR LP 22262	5.7	6.3	4.0	5.3	5.3	5.3	6.3	6.3	6.7	6.0	6.0
BRIGHTSTAR SLT	5.0	7.3	5.0	5.7	6.7	5.7	6.0	5.7	6.3	5.7	6.0
GO-RUS20	3.7	8.3	6.3	5.7	4.3	6.0	6.3	6.7	6.3	6.3	6.0
BSG-PR22	2.7	8.0	7.7	5.3	4.3	6.7	6.7	6.0	6.0	5.7	5.9
HIGH OCTANE	3.7	7.3	5.0	5.0	5.3	5.7	5.0	6.0	7.3	6.0	5.9
PPG-PR 643	4.3	7.7	5.3	4.0	5.3	5.0	6.7	6.3	6.3	6.0	5.9
SE-DK	3.0	7.7	6.7	6.0	4.3	6.7	6.7	5.7	6.0	6.0	5.9
PPG-PR 639	3.0	8.0	7.3	6.3	5.3	5.7	6.0	6.0	6.3	4.7	5.7
RC20-020	6.0	8.0	3.0	5.3	5.0	5.0	5.7	5.3	6.7	6.7	5.7
TSC-CRS	3.0	7.7	8.0	5.7	4.0	6.7	6.0	5.7	6.0	5.7	5.7
DLF-LGT-3066	7.7	7.3	1.3	4.7	5.7	5.0	6.0	5.0	6.3	5.3	5.6
PST-2SPF	1.0	7.3	9.0	6.3	4.3	3.3	2.3	2.7	4.3	3.7	3.4
LINN	2.3	8.0	8.0	2.7	2.0	3.3	4.3	3.0	3.3	3.0	3.2
LSD VALUE	1.9	2.4	2.1	2.2	2.1	1.2	1.8	0.9	1.5	1.8	0.8
C.V. (%)	24.7	8.6	22.6	16.0	17.0	11.4	14.3	9.0	11.9	14.5	7.8

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

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

TABLE 19.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
2023 DATA

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

NAME	QUALITY RATINGS								MEAN
	APR	MAY	JUN	JUL	AUG	SEP	OCT		
PPG-PR 663	7.7	8.0	7.0	7.3	6.7	7.7	7.3	7.4	
PPG-PR 665	7.7	8.0	6.7	8.0	6.3	7.3	8.0	7.4	
LTP-RPP4	8.0	8.0	7.0	7.3	6.3	7.0	7.3	7.3	
PPG-PR 664	7.7	8.0	7.0	7.3	6.7	7.3	7.0	7.3	
PPG-PR 666	8.0	7.7	6.3	7.7	6.3	7.0	8.0	7.3	
LTP-NR	8.0	7.7	6.7	7.0	6.7	6.3	8.0	7.2	
PPG-PR 610	8.0	7.7	6.7	7.0	6.7	7.0	7.7	7.2	
PPG-PR 642	7.7	7.7	6.7	6.7	6.3	7.3	8.0	7.2	
DLF-PR-3730	8.0	7.3	6.7	7.0	6.0	7.3	7.7	7.1	
ELEKTRA GLR (PPG-PR 671)	7.7	8.0	6.3	6.3	6.3	7.0	8.0	7.1	
GO-RUS21	7.7	7.7	6.7	6.7	6.7	6.7	7.7	7.1	
GRAY EAGLE SLT (PST-2MEG)	8.0	7.3	7.3	6.3	6.0	7.0	7.7	7.1	
PPG-PR 620	7.7	8.0	6.7	6.7	6.3	7.0	7.7	7.1	
PPG-PR 639	8.0	8.0	6.7	6.7	6.0	6.7	8.0	7.1	
PPG-PR 643	8.0	7.0	6.7	7.7	6.3	6.3	8.0	7.1	
PPG-PR 667	7.3	8.0	6.7	7.3	6.3	6.7	7.7	7.1	
PPG-PR 670	8.0	8.0	6.7	6.3	6.3	6.3	8.0	7.1	
20PR10	7.7	8.0	6.3	7.0	5.7	6.3	7.7	7.0	
ALPHA CENTAURI	8.0	7.7	6.0	7.3	6.0	6.7	7.3	7.0	
APS	8.0	7.7	6.0	6.7	6.0	6.3	8.0	7.0	
DLF-PR-3728	8.0	7.0	6.7	7.0	7.0	6.0	7.7	7.0	
DLF-PR-3735	7.7	7.7	6.7	7.0	6.7	6.7	7.0	7.0	
DLF-PR-3736	8.0	8.0	6.7	6.3	6.3	6.3	7.0	7.0	
DLF-PR-3738	8.0	7.0	6.3	7.3	6.7	6.3	7.3	7.0	
GO-RUS22	8.0	7.7	7.0	6.7	5.7	7.0	7.3	7.0	
PISTON	7.7	7.7	6.0	6.7	6.3	6.3	8.0	7.0	
PPG-PR 606	8.0	8.0	6.3	6.7	6.3	6.3	7.0	7.0	
PPG-PR 611	8.0	8.0	6.7	6.7	5.7	6.7	7.7	7.0	
PPG-PR 644	8.0	7.7	6.7	6.3	6.0	6.3	7.7	7.0	
PPG-PR 661	8.0	8.0	6.3	6.3	6.3	6.7	7.0	7.0	
PPG-PR 662	7.7	8.0	6.7	7.0	5.3	7.0	7.7	7.0	
PST-2ADS	8.0	7.0	6.7	6.7	6.7	6.3	8.0	7.0	
PST-2BGL	8.0	7.7	6.3	7.0	6.7	6.3	7.0	7.0	
PST-2MES1	8.0	7.7	6.3	7.0	6.0	7.0	7.3	7.0	
SILETZ	8.0	7.7	6.0	6.7	6.3	6.7	7.3	7.0	
ULTRA SPORT (PST-2HAF20)	7.7	8.0	7.0	6.7	5.7	6.3	7.3	7.0	
DLF-PR-3729	8.0	7.3	6.3	6.3	6.0	6.0	8.0	6.9	
PPG-PR 637	7.7	7.3	6.3	6.3	6.0	7.0	7.7	6.9	
PS4	7.7	7.7	6.3	6.3	6.3	6.3	7.7	6.9	
PST-2DRG	8.0	8.0	6.3	6.0	6.3	6.3	7.3	6.9	
PST-2EGY	8.0	7.3	6.3	6.0	6.3	6.7	7.3	6.9	
PST-2GDS	7.7	7.7	6.7	6.3	6.0	6.7	7.3	6.9	
PVF-SGS5	7.3	7.3	6.3	6.3	6.7	6.7	7.7	6.9	
SGP4	7.7	7.3	6.3	7.3	6.0	6.0	7.3	6.9	
STELLAR 4GL	8.0	7.3	6.7	6.3	6.0	6.3	7.3	6.9	
BSG-PR22	8.0	6.0	7.0	6.3	6.3	7.0	7.0	6.8	
BY-PS2	8.0	7.7	6.3	6.3	5.7	6.3	7.3	6.8	

TABLE 19.
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG, VA 1/
2023 DATA

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

NAME	QUALITY RATINGS							MEAN
	APR	MAY	JUN	JUL	AUG	SEP	OCT	
CJP1R	8.0	7.0	6.3	6.7	6.3	6.3	7.0	6.8
DLF-PR-3727	8.0	6.3	7.3	6.7	6.0	6.3	7.0	6.8
HOMERUN LS	8.0	7.7	7.0	6.3	5.3	5.3	7.7	6.8
PPG-PR 647	7.7	7.3	6.3	6.7	5.7	6.7	7.0	6.8
PPG-PR 668	7.7	7.7	6.7	6.7	6.0	5.7	7.3	6.8
BAR LP 22191	8.0	7.3	6.0	6.7	5.7	6.0	7.0	6.7
NAI-PR5	8.0	7.0	6.3	6.7	5.7	5.7	7.7	6.7
PST-2E6	8.0	6.7	6.7	6.3	5.7	6.3	7.0	6.7
PST-2HFM	8.0	7.7	6.3	6.0	5.3	5.7	7.7	6.7
QUASAR	8.0	6.7	6.0	6.7	6.0	6.0	7.7	6.7
BAR LP 22174	8.0	7.7	6.3	5.7	5.7	5.7	7.0	6.6
BAR LP 22263	8.0	6.7	6.7	6.3	5.3	6.3	6.7	6.6
DARK MATTER	8.0	7.3	6.3	6.0	5.7	6.3	6.7	6.6
DLF-PR-3726	8.0	7.3	6.0	6.0	5.3	6.0	7.3	6.6
GO-RUS20	7.7	7.3	6.3	6.3	5.3	6.0	7.0	6.6
PPG-PR 646	7.7	8.0	6.0	6.0	5.3	6.0	7.0	6.6
GREENBACK	8.0	6.7	6.3	6.0	5.3	6.3	7.0	6.5
HIGH OCTANE	7.7	7.0	6.0	5.7	5.3	6.7	7.3	6.5
PVF-RPP2	8.0	7.3	6.7	5.7	5.0	6.0	7.0	6.5
DLF-LGT-3066	7.7	6.7	6.3	6.3	5.0	5.3	7.7	6.4
RC20-020	8.0	6.3	5.7	6.3	5.7	5.7	7.0	6.4
RPP3	8.0	6.3	6.0	5.0	6.0	6.3	7.3	6.4
SE-DK	8.0	7.0	6.7	6.3	5.0	5.7	6.3	6.4
BAR LP 22262	7.7	7.3	7.0	5.7	5.7	5.3	5.7	6.3
MRSLS-PR22	8.0	7.3	6.7	5.3	4.7	5.7	6.3	6.3
PST-2SPF	7.3	7.7	6.3	5.7	5.3	5.3	6.7	6.3
BAR LP 22256	7.3	6.7	6.7	5.7	5.3	6.0	6.0	6.2
PPG-PR 602	7.3	6.7	6.3	5.3	5.7	5.7	6.3	6.2
PPG-PR 658	7.3	7.3	6.0	5.3	5.0	6.0	6.7	6.2
PST-214	7.7	8.0	6.0	5.0	5.3	5.7	6.0	6.2
DLF-PR-3737	8.0	6.7	5.7	5.3	5.0	5.7	6.7	6.1
BRIGHTSTAR SLT	8.0	6.7	6.0	5.3	5.0	5.3	6.0	6.0
KARMA	7.7	6.7	6.0	5.3	5.7	5.0	5.7	6.0
TSC-CRS	7.7	5.3	6.3	5.0	4.7	5.3	6.7	5.9
SEPR-2013	7.7	6.3	5.7	4.3	4.7	5.3	6.7	5.8
LINN	7.3	4.0	5.0	4.3	3.3	3.7	5.3	4.7
LSD VALUE	1.7	1.1	2.5	1.8	1.5	2.4	1.5	0.7
C.V. (%)	4.9	8.7	10.1	13.6	12.8	14.6	10.3	6.0

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 20. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
2022 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG (FAIRWAY), VA 1/
2023 DATA

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

NAME	DOLLAR	QUALITY RATINGS							MEAN
	SPOT	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PPG-PR 642	8.3	7.3	7.7	7.0	7.3	6.7	7.7	7.7	7.3
ALPHA CENTAURI	8.0	7.7	7.7	6.7	7.7	7.0	7.0	7.0	7.2
APS	6.7	8.0	7.7	7.3	7.7	6.0	6.7	7.0	7.2
PPG-PR 668	7.7	8.0	7.7	7.3	7.0	6.0	6.3	8.0	7.2
PPG-PR 670	7.3	7.7	8.0	7.0	7.3	6.0	6.7	7.7	7.2
DLF-PR-3736	7.3	8.0	8.0	7.3	7.7	6.3	6.3	6.3	7.1
DLF-PR-3738	7.7	8.0	7.7	6.7	7.3	6.0	7.0	7.3	7.1
PPG-PR 662	7.0	8.0	8.0	7.0	6.3	6.0	7.0	7.3	7.1
PPG-PR 664	8.3	8.0	7.7	6.7	6.7	7.0	6.3	7.3	7.1
PST-2MES1	8.3	8.0	7.3	7.0	7.3	6.7	6.7	7.0	7.1
DLF-PR-3728	6.3	8.0	8.0	7.7	7.3	5.0	6.3	6.7	7.0
GO-RUS21	8.0	7.7	7.7	7.0	6.7	6.3	6.0	7.3	7.0
GRAY EAGLE SLT (PST-2MEG)	7.3	8.0	7.7	7.0	6.3	5.3	6.7	7.7	7.0
PPG-PR 637	7.3	8.0	7.3	7.0	7.0	6.0	6.7	7.0	7.0
PPG-PR 644	7.7	7.7	6.7	6.7	7.0	6.3	7.0	7.7	7.0
PPG-PR 666	7.0	8.0	7.0	7.0	6.7	6.0	6.3	7.7	7.0
PPG-PR 667	7.7	8.0	7.3	7.0	6.3	6.3	6.7	7.3	7.0
ELEKTRA GLR (PPG-PR 671)	8.0	7.7	8.0	6.3	6.3	5.7	6.7	7.7	6.9
NAI-PR5	8.0	8.0	7.3	6.7	7.7	6.0	5.7	7.0	6.9
PPG-PR 602	7.0	8.0	7.7	6.7	6.3	6.0	6.3	7.0	6.9
PPG-PR 611	6.7	8.0	8.0	6.7	6.7	5.7	6.3	7.0	6.9
PPG-PR 663	7.3	8.0	8.0	7.7	6.0	5.3	5.7	7.3	6.9
PPG-PR 665	8.0	8.0	7.7	7.3	6.7	5.7	6.0	6.7	6.9
PVF-RPP2	7.3	8.0	7.0	6.7	6.3	6.0	7.0	7.0	6.9
SILETZ	7.7	7.7	7.7	6.7	5.7	6.0	7.0	7.3	6.9
ULTRA SPORT (PST-2HAF20)	7.3	7.7	8.0	7.0	7.0	5.7	6.3	6.7	6.9
DLF-PR-3727	7.0	7.7	7.3	7.3	6.0	6.3	5.7	7.3	6.8
DLF-PR-3735	8.3	8.0	7.7	6.7	6.3	6.0	6.7	6.3	6.8
GO-RUS20	8.0	8.0	7.3	7.3	6.7	6.0	6.0	6.3	6.8
LTP-RPP4	7.7	8.0	7.3	6.0	6.0	6.0	6.7	7.3	6.8
PPG-PR 639	7.0	7.7	7.7	6.3	6.0	6.0	6.7	7.0	6.8
PPG-PR 658	7.7	8.0	6.3	6.3	6.7	6.7	6.7	6.7	6.8
PPG-PR 661	8.0	7.7	7.0	6.7	6.7	6.3	6.7	6.7	6.8
PST-2ADS	8.0	7.7	7.0	6.0	6.3	6.3	7.0	7.0	6.8
PVF-SGS5	7.3	7.7	7.7	6.0	7.0	5.7	6.3	7.0	6.8
BY-PS2	7.0	8.0	7.3	6.7	6.7	5.7	6.7	6.0	6.7
DLF-PR-3726	6.3	7.3	7.7	7.0	6.3	5.7	5.7	7.0	6.7
DLF-PR-3729	6.7	8.0	8.0	7.3	5.7	5.0	6.0	7.0	6.7
DLF-PR-3730	5.7	7.7	8.0	7.3	6.7	4.7	5.7	6.7	6.7
PPG-PR 620	6.7	7.3	7.7	6.7	6.3	5.7	6.0	7.3	6.7
PPG-PR 646	7.7	8.0	7.0	5.7	5.3	6.0	7.3	7.3	6.7
PS4	6.7	7.7	7.7	6.0	7.0	5.7	6.0	7.0	6.7
PST-214	7.7	7.7	7.7	6.3	6.3	6.0	6.0	7.0	6.7
SGP4	7.7	7.3	7.0	5.7	7.3	6.3	6.3	7.0	6.7
BAR LP 22262	7.3	7.7	7.0	7.3	6.0	6.0	6.0	6.3	6.6
BAR LP 22263	7.0	7.7	7.3	7.0	6.7	5.3	6.0	6.3	6.6
CJP1R	7.3	7.3	6.3	5.3	7.0	5.7	7.0	7.7	6.6

TABLE 20. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE
(CONT'D) 2022 NATIONAL PERENNIAL RYEGRASS TEST AT BLACKSBURG (FAIRWAY), VA 1/
2023 DATA

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

NAME	DOLLAR	QUALITY RATINGS							
	SPOT	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DARK MATTER	6.3	8.0	7.7	6.3	5.7	5.0	6.3	7.0	6.6
HIGH OCTANE	7.7	7.7	6.3	6.3	6.7	6.0	6.3	7.0	6.6
PPG-PR 606	7.3	7.7	7.0	6.0	6.3	6.0	6.3	7.0	6.6
PPG-PR 643	8.0	7.7	7.3	6.0	5.7	5.7	6.7	7.3	6.6
PPG-PR 647	7.7	8.0	7.3	6.0	6.3	5.3	6.3	7.0	6.6
PST-2GDS	6.7	8.0	7.7	7.0	5.7	5.7	5.7	6.3	6.6
PST-2HFM	7.7	7.3	7.7	6.7	6.3	5.7	6.7	6.0	6.6
DLF-LGT-3066	7.7	7.3	7.3	7.0	6.3	5.7	6.0	5.7	6.5
LTP-NR	6.7	8.0	7.0	6.3	5.7	5.3	6.3	7.0	6.5
PST-2EGY	6.7	7.7	7.0	7.0	6.0	5.0	5.3	7.3	6.5
BAR LP 22256	6.0	7.7	6.7	6.7	5.3	5.3	6.0	7.0	6.4
DLF-PR-3737	5.7	7.7	7.7	6.7	6.3	4.7	5.3	6.3	6.4
PST-2BGL	7.3	8.0	7.7	6.3	4.7	5.3	5.7	7.0	6.4
PST-2E6	6.7	8.0	7.0	6.0	6.0	5.0	6.0	7.0	6.4
QUASAR	7.7	8.0	6.0	6.0	6.7	5.0	6.0	7.0	6.4
TSC-CRS	5.0	8.0	7.7	6.7	6.0	4.7	6.0	6.0	6.4
20PR10	6.7	7.7	7.7	6.0	5.7	5.0	5.7	6.7	6.3
GO-RUS22	5.7	8.0	7.0	6.0	5.7	4.7	5.3	7.3	6.3
GREENBACK	5.3	7.7	8.0	7.0	5.0	4.7	6.0	6.0	6.3
HOMERUN LS	7.0	8.0	7.3	6.0	5.3	5.3	5.7	6.3	6.3
PISTON	7.0	8.0	7.0	6.0	5.7	5.3	5.3	6.7	6.3
PPG-PR 610	6.7	8.0	6.7	6.7	5.0	5.7	5.3	7.0	6.3
STELLAR 4GL	7.7	8.0	6.7	6.3	5.7	5.0	6.3	6.3	6.3
BAR LP 22191	6.0	8.0	7.3	7.0	5.3	5.0	5.0	6.0	6.2
BRIGHTSTAR SLT	6.7	8.0	7.7	6.7	5.3	4.7	5.7	5.7	6.2
PST-2DRG	6.0	8.0	7.0	7.0	5.7	4.3	5.0	6.3	6.2
BSG-PR22	5.7	7.7	7.7	6.0	5.3	4.7	6.0	5.7	6.1
RPP3	6.7	7.7	5.3	5.3	6.3	5.3	6.0	6.7	6.1
SE-DK	6.0	7.3	7.7	6.7	5.0	4.7	5.3	6.3	6.1
SEPR-2013	5.7	7.3	6.7	6.7	4.7	4.7	6.0	6.7	6.1
KARMA	5.7	7.7	6.7	5.3	5.3	4.7	5.3	6.7	6.0
BAR LP 22174	5.0	8.0	7.7	6.3	5.0	4.3	4.7	5.3	5.9
MRS�-PR22	7.0	7.7	6.7	6.3	5.0	5.0	5.3	5.3	5.9
RC20-020	5.7	7.7	6.0	6.0	5.3	5.3	5.0	6.0	5.9
PST-2SPF	5.3	6.3	7.3	5.7	4.3	4.0	5.7	5.3	5.5
LINN	3.7	7.0	5.7	4.0	4.0	3.0	3.7	4.3	4.5
LSD VALUE	2.5	1.0	1.5	1.1	1.5	1.4	1.5	1.6	0.5
C.V. (%)	16.6	5.2	9.8	9.2	13.7	13.7	12.6	11.8	4.9

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.