

**Table S1.** The effects of sampling date on green turf cover, NDVI, visual quality, and soil moisture in 2019 of the four Kentucky bluegrass cultivars ('Barduke', 'Marauder', 'Nublu Plus' and 'Brooklawn') and the tall fescue cultivar 'Rhambler SRP'.

Parameter Cultivar		Week of the experiment										
		1	2	3	4	5	6	7	8	9	10	11
Green turf cover (%)	Barduke	96	93	81	75	68	50	83	79	86	80	88
	Marauder	96	93	83	76	59	45	71	68	74	71	83
	Nublu Plus	96	93	86	77	69	53	78	80	85	79	84
	Brooklawn	97	95	85	80	71	58	84	80	84	79	85
	Rhambler SRP	96	93	90	85	81	77	82	83	86	85	90
	LSD <sup>†</sup> = 7											
NDVI	Barduke	0.80	0.74	0.69	0.66	0.60	0.53	0.64	0.64	0.70	0.70	0.72
	Marauder	0.84	0.79	0.75	0.70	0.61	0.54	0.61	0.61	0.65	0.67	0.69
	Nublu Plus	0.85	0.80	0.76	0.71	0.62	0.55	0.63	0.66	0.69	0.71	0.70
	Brooklawn	0.85	0.80	0.74	0.69	0.63	0.56	0.66	0.63	0.69	0.70	0.70
	Rhambler SRP	0.85	0.80	0.79	0.75	0.71	0.66	0.70	0.70	0.74	0.76	0.76
	LSD = 0.04											
Visual quality (1-9)	Barduke	6.3	6.0	4.7	4.2	2.8	2.2	5.3	5.3	6.7	6.7	6.7
	Marauder	8.0	6.5	5.2	4.5	3.0	2.3	4.3	4.5	5.3	5.8	6.3
	Nublu Plus	7.2	7.0	5.7	4.0	3.3	2.5	4.7	5.2	5.8	6.3	6.7
	Brooklawn	6.7	6.3	5.0	4.5	3.3	2.3	4.8	5.0	5.8	6.0	6.3
	Rhambler SRP	7.5	7.2	6.3	6.0	5.2	5.0	5.7	5.7	6.7	7.8	7.7
	LSD = 0.8											
Soil moisture (%)	Barduke	34	23	12	7	7	7	27	19	19	20	24
	Marauder	36	23	12	7	6	6	27	19	19	18	24
	Nublu Plus	37	25	12	8	7	6	28	19	20	20	21
	Brooklawn	35	23	11	7	7	7	26	19	18	18	21
	Rhambler SRP	39	30	18	15	14	13	30	28	27	26	29
	LSD = 2.5											

<sup>†</sup>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 (P < 0.05)

**Table S2.** The effects of sampling date on green turf cover, NDVI, visual quality, and soil moisture in 2020 of the four Kentucky bluegrass cultivars ('Barduke', 'Marauder', 'Nublu Plus' and 'Brooklawn') and the tall fescue cultivar 'Rhambler SRP'.

Parameter Cultivar		Week of the experiment													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Green turf cover (%)	Barduke	97	95	91	81	74	65	58	55	68	70	75	76	73	73
	Marauder	95	93	87	77	65	61	54	48	60	62	66	69	67	70
	Nublu Plus	97	95	91	85	80	75	69	65	74	76	80	77	73	77
	Brooklawn	98	96	91	83	78	69	61	57	70	72	81	76	70	72
	Rhambler SRP	96	95	94	92	90	89	86	81	84	84	85	83	81	85
	LSD <sup>†</sup> = 7														
NDVI	Barduke	0.90	0.85	0.81	0.75	0.67	0.62	0.59	0.51	0.60	0.62	0.66	0.66	0.64	0.64
	Marauder	0.90	0.85	0.82	0.73	0.64	0.58	0.54	0.47	0.54	0.57	0.58	0.64	0.61	0.61
	Nublu Plus	0.91	0.87	0.85	0.80	0.74	0.70	0.69	0.61	0.68	0.69	0.70	0.69	0.67	0.67
	Brooklawn	0.90	0.86	0.84	0.76	0.69	0.65	0.61	0.53	0.63	0.63	0.67	0.64	0.63	0.65
	Rhambler SRP	0.91	0.89	0.86	0.85	0.82	0.80	0.80	0.74	0.77	0.79	0.78	0.78	0.79	0.77
	LSD = 0.05														
Visual quality (1-9)	Barduke	7.0	6.2	6.2	5.5	5.2	4.8	4.5	2.7	5.0	4.8	5.5	5.5	5.5	5.3
	Marauder	8.0	7.2	6.8	5.8	4.8	4.0	3.8	2.5	3.8	3.3	4.3	4.3	4.2	3.8
	Nublu Plus	7.8	7.2	7.3	6.8	6.2	5.8	5.3	3.5	5.5	5.5	6.3	6.3	5.8	5.8
	Brooklawn	7.3	6.2	6.2	5.7	5.5	5.2	4.8	3.3	5.5	5.2	5.7	5.7	5.3	5.0
	Rhambler SRP	7.5	7.0	7.2	7.2	7.2	7.2	7.0	6.2	6.3	6.0	6.7	7.0	6.7	7.0
	LSD = 0.8														
Soil moisture (%)	Barduke	35	33	24	17	10	7	5	6	32	22	22	22	30	25
	Marauder	33	29	21	13	9	5	4	4	29	21	24	23	26	24
	Nublu Plus	36	32	21	16	10	8	8	7	30	22	26	22	25	23
	Brooklawn	35	29	22	17	11	7	7	6	26	23	26	25	26	24
	Rhambler SRP	37	31	28	24	20	17	15	16	33	27	30	26	29	29
	LSD = 2.7														

<sup>†</sup>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 (P < 0.05)