

## 1999 NTEP Perennial Ryegrass Cultivar Test (Lawn) - 2001 Results

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### Objective

Our objective was to determine which of the 134 cultivars of perennial ryegrass were best adapted to Indiana growing conditions.

### Rationale

Perennial ryegrass is used on many sites and in seed mixes. It germinates rapidly so that quick cover can be attained. Perennial ryegrass has good wear tolerance, fair shade tolerance, and poor drought and heat tolerance. This study will help turf managers in selecting ryegrass varieties for use in home lawn maintenance conditions.

### How It Was Done

One hundred and thirty four varieties of perennial ryegrass were seeded on 7 Sep 1999 at the William H. Daniel Research and Diagnostic Center on a silt loam soil. Seed was spread using a hand shaker jar. After seeding, the area was lightly raked, and a starter fertilizer (8-22-16) was applied at the rate of 1.5 lbs P<sub>2</sub>O<sub>5</sub> per 1000 ft<sup>2</sup>. The area was covered with a germination blanket to prevent washing of seed and mixing of varieties.

The plots are maintained under a home lawn maintenance regime. The mowing height is 2.5 inches and the experiment is mowed twice per week. Annual fertilization is 2.5 lbs N/1000 ft<sup>2</sup> with 1 lb applied in mid-September and 1.5 lbs in early November. No irrigation is applied to the plots.

Data collected in 2001 included spring green-up, genetic color, and monthly visual quality ratings from Apr to Nov. All data taken were visual observations of turf characteristics and performance. Visual quality ratings were taken using a scale of 1 to 9 with 1 = no living turf, 5 = acceptable turf, and 9 = ideal turf.

### Results to Date

- There are no statistical differences in average visual quality among the top 10 cultivars (Table 1).
- There are no statistical differences in the top 45 cultivars in the three year average visual quality (Table 2).
- PST-2SBE, Applaud (Penington-11301), Pick PR B-97, Charismatic (LTP 98-501), MB 412 (ABT-99-4.461), NJ-6401, and Racer are the only seven cultivars that were in the top 10 in 2001 and the top 45 in the 3 year average.
- There is considerable color variation in the top 45 cultivars suggesting that color is not an overly important factor in rating visual quality (Table 2). Density and uniformity are more important than color in visual quality ratings.
- Linn is a standard entry and is one of the very early selections of perennial ryegrass. It appears at the bottom of Table 1 and Table 2, indicating the advances made in selection and breeding for this species.

**Table 1.** Visual quality ratings for 134 cultivars of perennial ryegrass growing under home lawn maintenance in 2001.

Cultivar	Apr	May	June	July	Aug	Sep	Oct	Nov	Avg
Salinas (PST-2SLX)	7.3	6.7	4.3	4.7	5.0	5.0	6.3	6.7	5.8
PST-2SBE	6.3	7.0	4.7	4.7	4.7	4.7	6.7	6.3	5.6
Applaud (Pennington-11301)	6.7	7.0	4.7	4.0	4.0	4.7	6.3	6.3	5.5
Pick PR B-97	6.7	6.7	5.0	4.3	4.7	4.0	6.3	6.3	5.5
Charismatic (LTP 98-501)	6.7	7.0	4.0	4.0	4.3	4.7	6.0	6.7	5.4
MB 412 (ABT-99-4.461)	6.7	7.0	4.7	4.0	4.3	4.0	6.0	6.3	5.4
NJ-6401	6.0	7.0	4.7	4.3	4.7	4.7	5.7	6.3	5.4
Racer	6.7	6.3	4.7	4.0	4.7	4.7	5.7	6.3	5.4
Skyhawk	6.7	6.7	4.3	4.0	4.0	4.7	6.3	6.3	5.4
UT-1000 (ABT-99-4.709)	6.7	6.7	4.3	4.0	5.0	4.7	5.7	6.0	5.4
ABT-99-4.834	7.0	7.3	4.0	4.0	4.0	4.3	6.0	6.0	5.3
APR 1233	6.0	6.7	4.3	4.7	4.0	4.3	6.0	6.3	5.3
Barlennium	7.0	6.7	4.7	4.0	4.0	4.3	5.7	5.7	5.3
Brightstar II	6.3	6.7	4.7	4.0	4.0	4.7	5.7	6.3	5.3
Cathedral II	6.7	6.7	4.3	4.0	4.3	3.7	6.0	6.7	5.3
CIS-PR-84	6.7	6.7	4.3	4.0	4.7	4.7	6.0	5.7	5.3
DLF-LDD	6.3	6.7	4.7	4.0	4.3	4.0	6.0	6.0	5.3
Manhattan (PST-2CRL)	6.3	7.0	4.7	4.3	4.0	4.3	6.0	6.0	5.3
Manhattan 3	6.7	7.0	4.3	4.3	4.3	4.0	5.7	5.7	5.3
Pacesetter (6011)	6.7	6.7	4.3	4.3	4.3	4.7	5.3	5.7	5.3
Pick EX2	6.7	7.0	4.3	4.3	4.0	4.0	6.0	6.0	5.3
Pick PR 1-94	6.7	6.7	4.3	3.7	5.0	4.0	6.0	5.7	5.3
Pizzazz	6.7	6.3	4.3	4.0	4.0	5.3	6.0	6.0	5.3
Prowler (APR 777)	6.3	6.3	4.3	4.3	4.3	4.0	6.0	6.3	5.3
PST-2JH	6.3	6.7	4.3	4.7	4.3	4.0	5.7	6.0	5.3
PST-2M4	6.3	7.0	4.7	4.0	4.3	4.0	5.7	6.7	5.3
PST-2RT	6.3	7.7	4.3	4.0	4.0	4.0	6.0	6.0	5.3
Roberts-627	6.7	7.3	4.3	4.7	4.0	4.3	5.7	5.3	5.3
SRX 4RHT	6.7	7.0	4.7	4.3	4.0	4.0	5.7	5.7	5.3
ABT-99-4.600	6.7	6.0	4.3	4.0	3.7	4.0	6.3	6.3	5.2
ABT-99-4.815	6.3	6.3	4.0	4.0	4.3	4.3	6.0	6.0	5.2
APR 1237	6.7	6.7	4.3	3.7	4.0	3.7	6.3	6.0	5.2
APR 776	6.0	6.7	4.7	4.0	4.3	4.0	6.0	5.7	5.2
Ascend	7.0	6.3	4.3	4.0	4.0	4.0	5.7	6.0	5.2
Brightstar SLT (PST-2A6B)	6.3	7.0	4.3	4.0	4.0	4.0	6.0	6.0	5.2
Divine	6.7	6.7	4.7	4.0	4.7	4.0	5.3	5.7	5.2
MB 410 (ABT-99-4.629)	6.3	6.7	4.3	4.0	4.3	4.0	5.7	6.0	5.2
Pick MDR	6.7	6.7	4.3	4.0	4.0	4.0	5.7	6.0	5.2
Pick PR QH-97	6.0	6.3	4.7	3.7	4.3	4.3	6.0	6.0	5.2
Pleasure XL	6.7	6.3	5.0	4.3	4.3	4.0	5.7	5.3	5.2
PST-2CRR	7.0	6.0	4.7	4.0	4.0	4.0	6.0	5.7	5.2
PST-2L96	6.0	6.3	5.3	4.3	4.3	4.0	5.7	5.3	5.2
PST-2LA	6.3	6.7	4.3	4.3	4.3	3.7	5.7	6.0	5.2
Radiant	6.0	7.0	4.0	4.0	4.3	4.0	6.0	6.3	5.2
Wilmington	6.3	6.3	4.3	4.0	4.7	4.3	5.7	5.7	5.2
ABT-99-4.115	5.7	6.7	4.0	4.0	4.7	4.0	5.7	6.3	5.1
ABT-99-4.721	6.3	6.0	4.3	4.0	4.3	4.3	5.3	6.0	5.1
All Star2 (CIS-PR-78)	6.7	6.7	4.7	4.0	4.0	4.0	5.3	5.3	5.1

Cabo (CIS-PR-80)	6.3	6.7	4.3	3.7	4.3	4.0	6.0	5.7	5.1
Churchill	6.0	6.3	4.0	4.0	4.0	4.3	5.7	6.3	5.1
CIS-PR-75	6.7	6.7	4.0	4.0	4.3	4.0	5.7	5.3	5.1
Exacta	6.3	6.7	4.3	4.0	4.0	4.0	6.0	5.3	5.1
Galaxy (JR-128)	6.7	6.3	4.3	3.7	4.0	3.7	6.0	6.0	5.1
MB 413 (ABT-99-4.633)	7.0	6.3	4.0	4.3	4.0	4.0	5.7	5.3	5.1
Paradigm (APR 1236)	6.0	6.3	4.7	4.0	4.3	4.0	5.7	5.7	5.1
Paragon	6.7	6.3	4.7	3.7	4.3	3.7	5.7	5.7	5.1
PST-CATS	6.3	6.3	4.7	4.0	4.3	4.0	5.7	5.7	5.1
R8000	6.3	6.7	4.3	3.7	4.0	4.0	6.0	6.0	5.1
Seville II	6.7	6.3	4.0	4.0	4.0	4.0	6.0	5.7	5.1
ABT-99-4.724	6.7	7.0	4.7	3.7	3.7	4.0	5.3	5.3	5.0
ABT-99-4.965	6.7	6.3	4.0	3.7	4.0	4.0	5.7	5.7	5.0
Affinity	6.7	6.0	4.0	4.0	3.3	3.7	6.0	6.0	5.0
Affirmed	6.7	6.3	4.0	4.0	4.0	4.0	5.3	5.3	5.0
Amazing (B1)	6.3	6.3	4.7	3.3	4.0	4.0	5.7	5.3	5.0
APR 1231	6.0	6.7	4.0	4.3	4.0	4.0	5.0	5.7	5.0
APR 1232	5.7	6.3	4.0	3.7	4.3	4.0	6.0	5.7	5.0
APR 1235	6.0	6.3	4.0	4.0	4.0	4.0	5.7	6.0	5.0
Cutter II (Pick RC2)	6.0	6.7	4.3	4.0	4.0	4.0	5.7	5.3	5.0
EDP	6.3	6.0	4.3	3.7	4.3	4.3	5.7	5.7	5.0
Extreme (JR-317)	6.7	6.3	4.0	4.0	4.0	4.0	5.3	5.7	5.0
Fiesta III	6.7	6.0	4.0	3.3	4.0	4.0	6.0	5.7	5.0
Kokomo (CIS-PR-69)	6.3	6.7	4.3	3.7	3.7	4.3	5.3	5.7	5.0
LPR 98-144	6.0	6.7	4.3	4.0	4.0	4.0	5.7	5.3	5.0
MB 411 (ABT-99-4.753)	6.7	6.3	4.7	4.0	4.0	3.7	5.0	5.3	5.0
MB 414 (ABT-99-4.903)	6.3	6.3	4.3	3.7	3.7	4.0	5.7	5.7	5.0
Monterey II (JR-187)	5.7	6.3	4.7	3.7	4.0	3.7	5.7	6.0	5.0
MP58	6.0	6.7	4.3	3.7	4.0	3.7	5.7	5.7	5.0
Nexus	6.0	6.7	4.0	4.0	4.3	4.0	5.3	5.3	5.0
Passport	6.3	7.0	4.7	3.7	3.7	4.0	5.3	5.3	5.0
Pennant II	6.0	6.7	4.0	4.0	4.0	4.0	5.7	5.7	5.0
Pick PRNGS	6.3	6.7	4.7	4.0	4.0	4.0	5.3	5.3	5.0
Promise	6.0	6.0	4.0	4.0	4.0	4.0	6.0	5.7	5.0
PST-2BR	6.7	6.3	4.7	3.7	3.7	4.0	5.3	5.3	5.0
SR 4500	6.0	6.3	4.7	4.0	4.0	4.0	5.7	5.0	5.0
SRX 4801	6.3	7.0	4.3	4.0	4.0	4.0	5.3	5.3	5.0
SRX 4820	6.0	6.7	4.7	3.7	4.0	4.0	5.3	5.3	5.0
ABT-99-4.625	6.0	6.0	4.0	4.0	4.0	4.0	5.7	5.7	4.9
Calypso II	6.3	6.3	4.0	3.7	4.0	4.0	5.7	5.0	4.9
Catalina	6.0	6.0	4.0	4.0	4.0	4.0	5.7	5.3	4.9
EP53	6.0	6.3	4.3	3.3	4.0	4.3	5.3	5.3	4.9
Gator 3 (CIS-PR-85)	6.0	6.3	4.3	4.0	4.0	4.0	5.3	5.3	4.9
Jet	6.0	6.0	3.7	3.7	4.0	4.3	5.7	5.7	4.9
LTP ME	6.7	5.7	4.3	3.7	4.0	4.0	5.3	5.3	4.9
Majesty	6.0	6.7	4.3	4.0	4.0	4.0	5.0	5.3	4.9
MP103	6.3	6.0	4.0	3.7	3.3	4.0	5.7	6.0	4.9
MP107	6.0	6.3	4.0	4.0	4.0	4.0	5.7	5.3	4.9
Premier II	6.0	6.3	4.7	3.7	4.0	4.0	5.3	5.3	4.9
Stellar (CIS-PR-72)	6.0	6.0	4.0	4.0	4.0	4.0	5.7	5.7	4.9
Superstar (EP57)	6.7	6.7	3.7	3.3	4.0	3.7	5.7	5.7	4.9
ABT-99-4.560	6.3	6.0	4.3	3.7	3.7	4.0	5.3	5.3	4.8
Admire (JR-151)	6.3	6.3	3.7	3.7	3.7	3.7	5.3	5.3	4.8

Allsport	6.0	6.3	4.0	4.0	3.7	4.0	5.0	5.0	4.8
APR 1234	6.3	6.3	4.0	3.7	4.0	3.3	5.3	5.7	4.8
Buccaneer	6.0	6.3	4.0	3.7	3.3	3.7	5.7	6.0	4.8
BY-100	6.0	6.0	3.7	3.3	3.7	4.0	5.7	6.0	4.8
CAS-LP84	5.7	5.7	4.3	3.7	4.0	3.7	6.0	5.7	4.8
Charger II	6.3	6.7	4.0	4.3	3.3	3.7	5.0	5.3	4.8
Edge	6.3	6.3	4.3	4.0	3.3	3.7	5.0	5.3	4.8
Elfkin	5.7	6.3	4.7	4.0	4.0	3.3	5.3	5.0	4.8
Headstart	6.0	6.0	3.7	3.3	4.0	3.7	5.7	5.7	4.8
Line Drive	6.0	6.3	3.7	3.7	4.0	3.7	5.3	5.7	4.8
LPR 98-143	6.7	6.0	3.7	3.3	4.3	3.7	5.3	5.0	4.8
MDP	6.0	6.0	3.7	4.0	4.3	4.3	5.3	5.0	4.8
MEPY	6.0	6.3	4.0	3.7	3.7	4.0	5.3	5.7	4.8
Phantom	6.0	6.3	4.3	3.3	3.3	4.0	5.7	5.3	4.8
Pinnacle II (BAR 9 B2)	6.0	6.7	4.0	3.7	3.7	4.0	5.0	5.3	4.8
ABT-99-4.464	6.0	6.0	4.0	3.7	3.7	4.0	5.0	5.3	4.7
Panther	6.3	6.0	4.0	3.7	3.3	3.3	5.3	5.3	4.7
WVPB-R-84	6.0	6.0	4.0	3.7	3.7	3.7	5.3	5.3	4.7
YatsuGreen	5.3	5.7	3.7	3.7	3.3	4.0	5.7	6.3	4.7
A5C (ABT-99-4.960)	6.0	6.0	4.0	3.3	4.0	3.7	5.0	5.0	4.6
ABT-99-4.339	6.0	6.0	4.0	3.3	3.7	3.7	5.3	5.0	4.6
DP 17-9069	6.0	6.3	4.0	3.7	3.3	3.7	5.0	5.0	4.6
Prosport (AG-P981)	6.0	5.7	3.7	3.3	3.7	4.0	5.7	5.0	4.6
Secretariat	6.0	6.7	3.7	3.7	3.3	3.7	5.0	5.0	4.6
SRX 4120	6.7	6.0	3.7	3.3	3.3	3.3	5.3	5.0	4.6
DP 17-9391	5.7	6.3	4.0	3.3	3.0	4.0	4.7	4.7	4.5
DP 17-9496	4.7	5.0	4.0	3.7	3.7	4.0	5.3	6.0	4.5
DP LP-1	6.0	6.7	4.3	3.0	3.0	3.3	5.0	4.7	4.5
Koos R-71	6.7	6.0	3.7	3.0	3.0	3.0	5.0	5.3	4.5
WVPB-R-82	6.0	6.0	4.0	3.0	3.0	3.3	5.3	5.0	4.5
Palmer III	6.0	6.3	3.7	3.3	3.3	3.0	4.3	4.7	4.3
Premier	5.3	5.3	3.7	2.7	3.0	3.7	5.0	6.0	4.3
Linn	3.7	4.0	3.0	3.3	3.0	4.0	5.0	5.3	3.9
LSD (0.05)	1.1	0.9	0.8	0.8	0.8	0.7	0.9	NS	0.5

<sup>a</sup> Visual quality ratings were taken using a scale of 1 to 9 with 1 = no living turf, 5 = acceptable turf, and 9 = ideal turf.

**Table 2.** Color and Greenup 2001, and yearly average visual quality for 2000, 2001, and two year average of 134 cultivars of perennial ryegrass growing under home lawn maintenance.

Cultivar	Color <sup>b</sup>	Greenup <sup>c</sup>	Visual quality <sup>a</sup>		
			2000	2001	Avg
Pizzazz	8.3	2.3	6.2	5.3	5.8
All Star2 (CIS-PR-78)	8.3	2.0	6.1	5.1	5.6
ABT-99-4.724	8.0	2.0	6.1	5.0	5.6
Pick PR 1-94	7.7	2.0	5.9	5.3	5.6
Pick PR B-97	7.3	1.3	5.6	5.5	5.6
Charismatic (LTP 98-501)	8.0	2.7	5.5	5.4	5.5
R8000	7.7	2.3	5.9	5.1	5.5
Promise	7.0	2.3	5.9	5.0	5.5
SRX 4RHT	8.3	2.0	5.7	5.3	5.5
Exacta	8.0	2.0	5.9	5.1	5.5
PST-2M4	7.0	1.7	5.6	5.3	5.5
Radiant	8.0	1.3	5.7	5.2	5.5
APR 1235	7.0	1.3	5.9	5.0	5.5
Applaud (Pennington-11301)	8.3	2.0	5.3	5.5	5.4
Churchill	7.7	2.0	5.7	5.1	5.4
Racer	6.7	2.0	5.4	5.4	5.4
Fiesta III	7.3	1.7	5.7	5.0	5.4
Catalina	8.0	1.3	5.9	4.9	5.4
PST-2LA	7.3	1.3	5.5	5.2	5.4
Barlennium	8.0	2.3	5.2	5.3	5.3
EP53	7.0	2.3	5.6	4.9	5.3
Stellar (CIS-PR-72)	7.7	2.0	5.6	4.9	5.3
Amazing (B1)	8.7	1.7	5.5	5.0	5.3
Wilmington	8.0	1.7	5.4	5.2	5.3
MB 410 (ABT-99-4.629)	7.7	1.7	5.4	5.2	5.3
PST-2BR	7.7	1.7	5.6	5.0	5.3
Seville II	7.7	1.7	5.4	5.1	5.3
Charger II	7.0	1.7	5.8	4.8	5.3
PST-2JH	6.7	1.7	5.3	5.3	5.3
NJ-6401	8.0	1.3	5.2	5.4	5.3
Pleasure XL	7.7	1.3	5.4	5.2	5.3
APR 776	7.0	1.3	5.3	5.2	5.3
PST-2RT	6.3	1.0	5.2	5.3	5.3
Kokomo (CIS-PR-69)	8.3	2.0	5.3	5.0	5.2
PST-2CRR	7.7	2.0	5.1	5.2	5.2
Cutter II (Pick RC2)	7.3	2.0	5.3	5.0	5.2
Prowler (APR 777)	6.7	2.0	5.1	5.3	5.2
Ascend	7.3	1.7	5.2	5.2	5.2
Divine	7.3	1.7	5.1	5.2	5.2
PST-2L96	7.3	1.7	5.2	5.2	5.2
MB 412 (ABT-99-4.461)	8.3	1.3	4.9	5.4	5.2
MB 414 (ABT-99-4.903)	7.7	1.3	5.3	5.0	5.2
PST-2SBE	7.7	1.3	4.7	5.6	5.2
Majesty	7.3	1.3	5.5	4.9	5.2
APR 1237	7.0	1.3	5.1	5.2	5.2

UT-1000 (ABT-99-4.709)	7.7	2.7	4.8	5.4	5.1
Pick EX2	6.0	2.7	4.8	5.3	5.1
CIS-PR-84	8.0	2.0	4.8	5.3	5.1
Salinas (PST-2SLX)	7.7	2.0	4.4	5.8	5.1
YatsuGreen	6.0	2.0	5.5	4.7	5.1
Jet	8.3	1.7	5.3	4.9	5.1
SRX 4820	7.7	1.7	5.2	5.0	5.1
Pacesetter (6011)	6.7	1.7	4.8	5.3	5.1
Passport	6.3	1.7	5.2	5.0	5.1
MB 411 (ABT-99-4.753)	7.7	1.3	5.1	5.0	5.1
ABT-99-4.464	7.0	1.3	5.5	4.7	5.1
APR 1233	7.0	1.3	4.8	5.3	5.1
APR 1231	6.7	1.3	5.2	5.0	5.1
Affirmed	7.0	2.3	5.0	5.0	5.0
Manhattan 3	7.0	2.3	4.7	5.3	5.0
DLF-LDD	8.0	2.0	4.7	5.3	5.0
SRX 4120	6.3	2.0	5.3	4.6	5.0
ABT-99-4.600	7.0	1.7	4.7	5.2	5.0
Secretariat	7.0	1.7	5.3	4.6	5.0
Brightstar II	8.7	1.3	4.7	5.3	5.0
Brightstar SLT (PST-2A6B)	8.0	1.3	4.7	5.2	5.0
Manhattan (PST-2CRL)	7.7	1.3	4.7	5.3	5.0
MP103	7.7	1.3	5.1	4.9	5.0
Palmer III	7.7	1.3	5.6	4.3	5.0
ABT-99-4.560	7.3	1.3	5.2	4.8	5.0
Skyhawk	7.3	1.3	4.5	5.4	5.0
SR 4500	7.7	1.0	4.9	5.0	5.0
Roberts-627	8.7	2.3	4.4	5.3	4.9
Superstar (EP57)	8.3	2.3	4.9	4.9	4.9
Affinity	7.0	2.3	4.8	5.0	4.9
PST-CATS	7.7	2.0	4.6	5.1	4.9
Panther	6.7	2.0	5.1	4.7	4.9
APR 1234	6.3	2.0	4.9	4.8	4.9
A5C (ABT-99-4.960)	8.0	1.7	5.2	4.6	4.9
MB 413 (ABT-99-4.633)	8.0	1.7	4.7	5.1	4.9
ABT-99-4.339	7.3	1.7	5.2	4.6	4.9
Premier II	7.3	1.7	4.8	4.9	4.9
Pick PRNGS	6.7	1.7	4.8	5.0	4.9
ABT-99-4.965	8.3	1.3	4.7	5.0	4.9
Allsport	7.3	1.3	5.0	4.8	4.9
LPR 98-144	7.0	1.3	4.7	5.0	4.9
Pennant II	7.0	1.3	4.8	5.0	4.9
APR 1232	6.3	1.0	4.7	5.0	4.9
ABT-99-4.834	8.3	2.3	4.3	5.3	4.8
Pick MDR	8.0	2.0	4.4	5.2	4.8
Extreme (JR-317)	7.7	2.0	4.6	5.0	4.8
Paragon	7.0	2.0	4.4	5.1	4.8
Cabo (CIS-PR-80)	8.7	1.7	4.5	5.1	4.8
Gator 3 (CIS-PR-85)	8.0	1.7	4.7	4.9	4.8
Galaxy (JR-128)	7.0	1.7	4.4	5.1	4.8
ABT-99-4.115	6.7	1.7	4.4	5.1	4.8
LTP ME	8.3	1.3	4.6	4.9	4.8
WVPB-R-82	6.3	1.3	5.1	4.5	4.8

Elfkin	7.3	1.0	4.7	4.8	4.8
Monterey II (JR-187)	7.0	1.0	4.6	5.0	4.8
Phantom	7.0	1.0	4.8	4.8	4.8
CIS-PR-75	8.3	2.7	4.3	5.1	4.7
Cathedral II	6.7	2.3	4.1	5.3	4.7
ABT-99-4.815	7.7	1.7	4.1	5.2	4.7
Koos R-71	6.7	1.7	4.8	4.5	4.7
Buccaneer	6.3	1.7	4.6	4.8	4.7
BY-100	6.0	1.7	4.6	4.8	4.7
Pick PR QH-97	8.3	1.3	4.1	5.2	4.7
SRX 4801	8.3	1.3	4.3	5.0	4.7
ABT-99-4.625	7.3	1.3	4.4	4.9	4.7
WVPB-R-84	6.7	1.3	4.6	4.7	4.7
DP LP-1	5.7	1.3	4.8	4.5	4.7
Line Drive	7.3	1.0	4.6	4.8	4.7
MP58	7.3	1.0	4.3	5.0	4.7
Pinnacle II (BAR 9 B2)	8.7	2.0	4.4	4.8	4.6
Paradigm (APR 1236)	7.7	1.3	4.1	5.1	4.6
Nexus	8.0	1.0	4.2	5.0	4.6
MP107	7.7	1.0	4.2	4.9	4.6
MEPY	7.0	1.0	4.3	4.8	4.6
Calypso II	7.3	2.3	4.1	4.9	4.5
Admire (JR-151)	7.0	2.3	4.2	4.8	4.5
ABT-99-4.721	8.0	1.7	3.8	5.1	4.5
Headstart	7.0	1.7	4.2	4.8	4.5
Edge	6.0	1.3	4.2	4.8	4.5
CAS-LP84	8.3	1.0	4.1	4.8	4.5
DP 17-9391	5.3	1.0	4.4	4.5	4.5
Premier	7.7	1.3	4.4	4.3	4.4
DP 17-9069	6.0	1.3	4.2	4.6	4.4
LPR 98-143	7.3	2.3	3.8	4.8	4.3
EDP	8.0	1.7	3.6	5.0	4.3
Prospert (AG-P981)	7.0	1.3	3.9	4.6	4.3
MDP	8.7	1.0	3.7	4.8	4.3
DP 17-9496	5.0	1.3	3.8	4.5	4.2
Linn	5.3	1.3	2.9	3.9	3.4
LSD (0.05)	0.8	NS	1.2	0.5	0.7

<sup>a</sup> Visual quality ratings were taken using a scale of 1 to 9 with 1 = no living turf, 5 = acceptable turf, and 9 = ideal turf. Monthly ratings were averaged to obtain yearly average.

<sup>b</sup> Color was rated on a scale of 1 to 9 where 1 = light green and 9 = ideal dark green.

<sup>c</sup> Green up was rated on a scale of 1 to 9 where 1 = dormant and 9 = green.