

1999 NTEP Perennial Ryegrass Test – Final Results

Dan Weisenberger

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 quick cover is 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 P₂O₅ per 1000 ft². 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 was 2.5 inches and the experiment was mowed twice per week. Annual fertilization is 2.5 lbs N/1000 ft² with 1 lb applied in mid-September and 1.5 lbs in early November. No irrigation was applied to the plots.

Data collected in 2003 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 21 cultivars (Table 1).
- There are no statistical differences in the top 35 cultivars in the four year average visual quality (Table 2).
- R8000, AllStar2 (CIS-PR-78), Charismatic (LTP 98-501), Pick PR B-97, PST-2M4, Exacta, NJ-6401, Seville II, Amazing (B1), DLF-LDD, APR 1237, Kokomo (CIS-PR-69), PST-2L96, and ABT-99-4.560 are the only fourteen cultivars that were in the top 21 in 2002 and the top 35 in the 4 year average.
- 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 2003.

Cultivar	Apr	May	June	July	Aug	Sep	Oct	Nov	Avg
R8000	7.0	7.0	6.3	5.0	5.0	6.7	7.0	7.0	6.4
DLF-LDD	7.3	6.7	6.7	4.7	4.7	7.0	6.3	7.0	6.3
All Star2 (CIS-PR-78)	7.0	7.0	6.0	4.3	4.7	6.3	7.0	7.3	6.2
Charismatic (LTP 98-501)	7.3	7.3	6.0	4.7	3.7	6.7	7.0	7.0	6.2
Seville II	7.3	7.3	6.0	4.7	4.0	6.3	7.0	7.0	6.2
ABT-99-4.834	6.7	6.7	6.3	4.3	4.3	6.0	7.7	7.3	6.2
Pick MDR	7.0	7.0	6.0	4.7	4.0	6.0	7.0	7.3	6.1
ABT-99-4.560	7.0	7.3	6.0	4.3	4.3	6.3	6.7	6.7	6.1
Amazing (B1)	7.0	7.0	5.7	4.3	4.7	6.3	7.0	6.7	6.1
APR 1237	7.0	7.3	6.3	5.0	4.3	6.0	6.0	6.7	6.1
SRX 4801	7.0	6.7	6.0	4.3	4.7	6.3	6.3	7.3	6.1
Exacta	6.7	6.7	6.0	4.3	4.7	6.3	6.3	7.3	6.0
Kokomo (CIS-PR-69)	7.0	6.7	6.0	4.0	4.3	6.7	7.0	6.7	6.0
Pick PRNGS	7.0	6.7	6.0	4.7	4.0	6.0	7.0	7.0	6.0
PST-2M4	7.0	6.7	6.0	4.3	4.7	6.0	7.0	6.7	6.0
Roberts-627	7.3	7.3	6.3	3.7	4.3	5.7	7.0	6.7	6.0
Gator 3 (CIS-PR-85)	6.7	6.7	6.0	4.0	4.3	6.3	7.0	7.0	6.0
NJ-6401	7.0	7.0	6.0	4.3	4.0	6.0	6.7	7.0	6.0
Pick PR B-97	7.0	7.3	6.0	4.3	4.0	6.0	6.3	7.0	6.0
Pick PR QH-97	6.7	7.0	5.7	4.7	4.0	6.3	6.7	7.0	6.0
PST-2L96	6.7	7.3	6.0	4.3	4.0	6.0	6.7	7.0	6.0
ABT-99-4.464	6.7	7.0	5.7	4.3	4.7	6.0	6.3	7.0	6.0
ABT-99-4.724	6.7	6.7	6.0	4.3	4.0	6.3	6.7	7.0	6.0
Applaud (Pennington-11301)	7.0	6.7	5.7	4.3	4.3	6.0	6.7	7.0	6.0
Barlennium	6.3	7.0	6.3	4.0	4.0	6.3	7.0	6.7	6.0
Divine	7.3	6.7	6.0	4.3	4.0	5.7	6.7	7.0	6.0
Pinnacle II (BAR 9 B2)	6.7	6.7	6.0	4.3	4.3	5.3	7.0	7.3	6.0
Pizzazz	6.7	7.0	6.0	4.0	4.3	5.7	6.7	7.3	6.0
ABT-99-4.115	7.0	6.7	6.0	4.7	4.0	6.0	6.0	7.0	5.9
Brightstar SLT (PST-2A6B)	7.0	6.7	5.7	4.0	4.0	6.3	6.7	7.0	5.9
Catalina	6.7	7.0	6.0	4.3	4.3	5.7	6.7	6.7	5.9
Extreme (JR-317)	7.0	7.0	6.0	4.7	4.0	5.7	6.3	6.7	5.9
PST-2RT	6.7	7.0	5.7	4.0	4.7	6.0	6.7	6.7	5.9
Elfkin	7.0	6.7	6.0	4.3	3.7	6.0	7.0	6.3	5.9
PST-2JH	7.0	7.0	6.0	4.3	4.0	5.3	6.7	6.7	5.9
PST-2LA	6.7	7.3	5.7	4.0	4.7	5.7	6.3	6.7	5.9
PST-2SBE	7.3	6.7	5.7	4.0	4.0	6.0	6.7	6.7	5.9
ABT-99-4.600	7.0	6.7	6.0	4.3	4.7	5.3	6.0	6.7	5.8
MB 411 (ABT-99-4.753)	6.7	7.3	6.0	4.0	3.7	5.7	6.7	6.7	5.8
MB 412 (ABT-99-4.461)	6.7	7.0	6.0	4.0	4.0	5.3	7.0	6.7	5.8
MP58	7.0	7.0	6.0	4.3	3.7	5.7	6.3	6.7	5.8
Premier II	6.7	6.7	6.0	4.3	3.7	6.0	6.7	6.7	5.8
Cutter II (Pick RC2)	6.7	6.7	6.0	4.3	4.3	5.3	6.0	7.0	5.8
Fiesta III	7.0	6.3	6.0	4.0	4.0	6.0	6.3	6.7	5.8
MP107	6.7	7.0	6.0	4.3	4.0	5.0	6.7	6.7	5.8
Pacesetter (6011)	6.3	6.0	6.0	4.7	4.3	6.3	6.3	6.3	5.8

PST-2BR	7.0	6.7	5.7	3.7	4.0	5.7	6.7	7.0	5.8
Radiant	6.7	7.0	6.0	3.7	4.0	5.7	6.3	7.0	5.8
Stellar (CIS-PR-72)	6.7	6.0	6.0	4.3	3.7	6.0	6.7	7.0	5.8
A5C (ABT-99-4.960)	7.0	6.7	5.7	3.7	4.3	5.3	6.3	7.0	5.8
ABT-99-4.625	6.7	7.0	6.0	4.0	3.7	5.3	6.3	7.0	5.8
Admire (JR-151)	7.0	6.7	5.7	4.3	4.0	5.7	6.3	6.3	5.8
Calypso II	7.0	6.7	5.7	4.0	4.0	5.7	6.3	6.7	5.8
Cathedral II	7.0	6.7	6.0	4.3	4.0	5.7	6.3	6.0	5.8
CIS-PR-84	6.7	7.0	5.7	4.0	3.7	6.0	6.3	6.7	5.8
Jet	6.7	6.0	5.3	4.0	4.0	6.0	7.0	7.0	5.8
LTP ME	6.7	6.7	6.0	4.3	3.7	5.3	6.7	6.7	5.8
Paragon	6.7	6.0	6.0	4.3	3.7	5.7	6.7	7.0	5.8
Pick PR 1-94	7.0	6.3	6.0	4.3	4.0	5.3	6.3	6.7	5.8
Promise	6.7	6.7	5.7	4.3	4.0	5.3	6.3	7.0	5.8
SR 4500	6.3	6.7	6.0	4.0	4.0	6.0	6.7	6.3	5.8
ABT-99-4.339	6.3	6.3	6.0	4.3	4.0	6.0	6.7	6.0	5.7
Affirmed	6.7	6.3	6.0	4.0	4.3	5.3	6.7	6.3	5.7
CAS-LP84	6.7	6.7	6.0	4.3	4.0	5.3	6.3	6.3	5.7
Churchill	6.7	6.3	6.0	4.3	3.7	5.7	6.3	6.7	5.7
EDP	6.7	6.7	5.3	4.3	4.3	5.7	6.3	6.3	5.7
Line Drive	6.7	6.7	5.7	4.0	4.3	5.3	6.3	6.7	5.7
Majesty	7.0	7.0	6.0	4.0	4.0	5.0	6.0	6.7	5.7
Manhattan (PST-2CRL)	6.7	7.0	6.0	4.0	3.7	5.3	6.3	6.7	5.7
MB 410 (ABT-99-4.629)	6.3	7.0	6.0	4.3	4.0	5.3	6.3	6.3	5.7
Monterey II (JR-187)	7.0	6.7	6.0	4.3	4.0	5.3	6.0	6.3	5.7
Pennant II	6.3	6.3	6.0	4.0	3.7	5.7	6.7	7.0	5.7
SRX 4820	6.3	6.7	5.7	4.0	4.0	5.7	6.3	7.0	5.7
SRX 4RHT	6.3	6.7	6.0	4.0	4.0	5.7	6.3	6.7	5.7
APR 1233	6.7	6.3	5.7	4.7	4.3	5.0	6.0	6.7	5.7
Cabo (CIS-PR-80)	6.7	6.7	5.7	4.3	4.0	5.7	6.0	6.3	5.7
EP53	6.7	7.0	6.0	4.7	3.7	4.7	6.0	6.7	5.7
Manhattan 3	6.7	6.3	6.0	4.3	4.7	5.3	6.0	6.0	5.7
Palmer III	6.0	7.0	6.0	4.3	4.0	5.0	6.7	6.3	5.7
Panther	6.7	6.3	5.7	4.3	4.0	5.3	6.7	6.3	5.7
Paradigm (APR 1236)	6.3	7.0	6.0	4.3	4.0	5.3	6.0	6.3	5.7
Pleasure XL	6.7	6.7	5.7	4.0	4.0	6.0	6.0	6.3	5.7
Premier	7.0	6.7	5.3	4.3	4.3	5.7	6.0	6.0	5.7
APR 1232	6.7	6.7	5.3	4.7	3.3	5.7	6.3	6.3	5.6
APR 776	6.3	7.0	6.0	4.0	4.3	5.0	6.3	6.0	5.6
MB 413 (ABT-99-4.633)	7.0	6.7	5.3	3.7	4.0	5.7	6.3	6.3	5.6
MEPY	7.0	6.7	6.0	4.0	3.7	4.7	6.0	7.0	5.6
UT-1000 (ABT-99-4.709)	6.7	6.7	6.0	4.0	4.0	5.3	6.3	6.0	5.6
ABT-99-4.721	7.0	6.7	5.7	4.0	4.0	5.0	6.0	6.3	5.6
ABT-99-4.815	6.0	6.7	5.7	4.0	4.0	5.7	6.3	6.3	5.6
ABT-99-4.965	6.7	6.7	5.7	4.0	3.3	5.0	6.7	6.7	5.6
Ascend	6.7	6.3	6.0	4.0	4.0	5.3	6.0	6.3	5.6
Brightstar II	7.0	6.7	5.7	3.3	3.7	5.0	6.7	6.7	5.6
Nexus	6.3	7.0	5.3	3.7	4.0	5.0	6.7	6.7	5.6
Pick EX2	6.7	6.0	6.0	4.7	4.0	5.3	5.7	6.3	5.6
Prowler (APR 777)	6.3	6.0	5.3	4.3	4.3	6.0	6.3	6.0	5.6
Racer	7.0	6.3	5.7	4.0	4.0	5.3	6.0	6.3	5.6
Salinas (PST-2SLX)	6.3	7.0	6.0	4.0	4.3	4.7	6.0	6.3	5.6

Secretariat	7.0	6.0	5.7	4.0	3.7	5.3	6.3	6.7	5.6
Superstar (EP57)	6.7	6.3	5.7	4.3	4.3	5.0	6.0	6.3	5.6
Wilmington	6.3	6.3	5.3	4.0	3.7	5.7	6.7	6.7	5.6
CIS-PR-75	6.7	6.3	6.0	4.3	3.7	5.3	6.0	6.0	5.5
MB 414 (ABT-99-4.903)	6.7	7.0	6.0	3.7	3.7	4.7	6.0	6.7	5.5
SRX 4120	6.7	6.3	5.7	4.3	4.0	4.7	6.3	6.3	5.5
Charger II	6.7	6.0	5.7	4.3	4.3	5.0	6.0	6.0	5.5
MDP	6.3	6.3	5.3	4.0	3.7	5.3	6.3	6.7	5.5
MP103	6.7	6.7	5.7	4.3	3.7	4.7	6.0	6.3	5.5
Phantom	6.7	6.3	5.7	4.0	4.0	4.3	6.7	6.3	5.5
PST-CATS	6.7	6.7	5.0	4.0	4.0	5.3	6.0	6.3	5.5
Affinity	6.3	6.3	6.0	4.3	3.7	4.7	6.0	6.3	5.5
APR 1231	6.3	6.3	5.3	4.3	4.0	5.7	6.0	5.7	5.5
Galaxy (JR-128)	6.7	6.7	5.7	4.0	4.0	5.0	5.7	6.0	5.5
PST-2CRR	7.0	6.0	5.3	3.7	4.0	5.3	6.0	6.3	5.5
Allsport	7.0	6.3	5.7	3.3	3.7	4.3	6.0	7.0	5.4
APR 1235	6.7	6.7	5.0	4.0	4.3	5.0	6.0	5.7	5.4
BY-100	6.3	6.0	5.3	4.3	4.0	4.7	6.0	6.0	5.3
Edge	6.3	6.3	5.3	4.3	4.0	4.7	5.7	6.0	5.3
Headstart	6.7	6.0	5.3	3.7	4.0	4.7	6.0	6.3	5.3
Skyhawk	6.3	6.3	6.0	4.0	4.0	4.3	6.0	5.7	5.3
Koos R-71	7.0	5.7	5.7	4.0	3.7	4.3	5.7	6.3	5.3
LPR 98-144	6.0	6.0	5.3	3.7	4.0	4.7	6.3	6.3	5.3
Passport	6.7	6.0	5.7	3.3	4.0	4.7	6.0	6.0	5.3
DP 17-9069	6.3	6.0	5.3	4.0	4.0	4.7	5.7	6.0	5.3
WVPB-R-84	6.3	5.7	5.7	4.3	4.0	4.3	5.7	6.0	5.3
Buccaneer	6.3	5.7	6.0	3.7	4.3	4.7	5.3	5.7	5.2
Prosport (AG-P981)	5.7	5.7	5.3	4.0	4.0	4.3	6.3	6.3	5.2
YatsuGreen	6.3	6.0	5.0	4.0	4.7	4.7	5.3	5.7	5.2
DP LP-1	6.3	6.0	5.7	4.3	3.7	4.3	5.7	5.3	5.2
DP 17-9391	5.3	6.0	5.3	4.0	4.3	4.7	5.7	5.3	5.1
APR 1234	6.3	5.0	5.3	3.7	3.7	4.3	6.0	6.0	5.0
WVPB-R-82	6.0	5.7	5.0	3.7	4.0	3.7	5.7	6.3	5.0
LPR 98-143	6.0	5.0	4.3	3.0	3.3	3.7	5.0	5.7	4.5
DP 17-9496	5.3	4.3	4.0	3.7	4.3	4.3	4.7	5.0	4.5
Linn	4.0	3.0	3.0	3.0	3.0	3.0	3.7	3.7	3.3
LSD (0.05)	0.7	0.8	0.7	0.8	0.8	1.2	0.8	0.9	0.4

^a 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 2003, and yearly average visual quality for 2000, 2001, 2002, 2003, and four year average of 134 cultivars of perennial ryegrass growing under home lawn maintenance.

Cultivar	Color ^b	Greenup ^c	Visual quality ^a				
			2000	2001	2002	2003	Avg
Pizzazz	8.0	7.0	6.2	5.3	5.3	6.0	5.7
R8000	7.7	6.7	5.9	5.1	5.3	6.4	5.7
All Star2 (CIS-PR-78)	8.0	6.7	6.1	5.1	5.3	6.2	5.7
Charismatic (LTP 98-501)	7.3	6.7	5.5	5.4	5.3	6.2	5.6
Pick PR B-97	7.3	6.3	5.6	5.5	5.2	6.0	5.6
PST-2M4	7.0	4.7	5.6	5.3	5.3	6.0	5.6
ABT-99-4.724	7.3	6.7	6.1	5.0	5.0	6.0	5.5
Exacta	7.7	6.3	5.9	5.1	5.1	6.0	5.5
Applaud (Pennington-11301)	7.7	5.7	5.3	5.5	5.3	6.0	5.5
NJ-6401	7.7	6.7	5.2	5.4	5.3	6.0	5.5
Seville II	7.7	6.7	5.4	5.1	5.2	6.2	5.5
Pick PR 1-94	7.3	6.7	5.9	5.3	4.9	5.8	5.5
Catalina	7.7	6.3	5.9	4.9	5.1	5.9	5.4
SRX 4RHT	7.3	6.3	5.7	5.3	5.0	5.7	5.4
PST-2JH	7.3	5.3	5.3	5.3	5.3	5.9	5.4
PST-2RT	7.0	6.3	5.2	5.3	5.2	5.9	5.4
Amazing (B1)	8.0	6.7	5.5	5.0	5.1	6.1	5.4
PST-2LA	7.0	4.0	5.5	5.2	5.1	5.9	5.4
DLF-LDD	7.0	6.7	4.7	5.3	5.3	6.3	5.4
Promise	7.3	6.3	5.9	5.0	5.0	5.8	5.4
Radiant	7.7	6.7	5.7	5.2	4.8	5.8	5.4
APR 1237	6.7	6.7	5.1	5.2	5.2	6.1	5.4
Barlennium	7.0	6.3	5.2	5.3	5.1	6.0	5.4
Kokomo (CIS-PR-69)	8.0	7.0	5.3	5.0	5.1	6.0	5.4
Churchill	7.3	6.3	5.7	5.1	5.0	5.7	5.4
Fiesta III	7.3	5.7	5.7	5.0	5.0	5.8	5.4
Divine	7.0	6.7	5.1	5.2	5.1	6.0	5.4
PST-2L96	7.3	6.3	5.2	5.2	5.1	6.0	5.4
APR 1235	6.7	6.7	5.9	5.0	5.0	5.4	5.4
PST-2BR	7.3	7.0	5.6	5.0	5.0	5.8	5.4
Racer	6.3	6.7	5.4	5.4	5.0	5.6	5.4
MB 410 (ABT-99-4.629)	7.3	6.7	5.4	5.2	5.0	5.7	5.3
Stellar (CIS-PR-72)	7.3	5.7	5.6	4.9	5.0	5.8	5.3
ABT-99-4.560	8.0	6.3	5.2	4.8	5.1	6.1	5.3
PST-2SBE	7.7	5.7	4.7	5.6	5.1	5.9	5.3
Majesty	7.0	6.7	5.5	4.9	5.1	5.7	5.3
Pleasure XL	7.0	6.7	5.4	5.2	4.9	5.7	5.3
APR 776	7.0	6.7	5.3	5.2	5.0	5.6	5.3
ABT-99-4.464	7.0	6.7	5.5	4.7	5.0	6.0	5.3
Wilmington	7.7	6.3	5.4	5.2	5.0	5.6	5.3
ABT-99-4.834	8.0	6.7	4.3	5.3	5.3	6.2	5.3
Prowler (APR 777)	6.3	6.3	5.1	5.3	5.2	5.6	5.3
Cutter II (Pick RC2)	7.0	6.3	5.3	5.0	5.0	5.8	5.3
Roberts-627	8.0	6.7	4.4	5.3	5.3	6.0	5.3
Pacesetter (6011)	7.0	5.0	4.8	5.3	5.2	5.8	5.3

MB 412 (ABT-99-4.461)	7.7	6.3	4.9	5.4	5.0	5.8	5.3
EP53	7.3	6.3	5.6	4.9	4.9	5.7	5.3
SRX 4820	7.3	6.0	5.2	5.0	5.2	5.7	5.3
Pick PRNGS	6.7	6.7	4.8	5.0	5.1	6.0	5.3
Salinas (PST-2SLX)	7.7	6.7	4.4	5.8	5.2	5.6	5.2
Jet	8.0	7.0	5.3	4.9	5.0	5.8	5.2
ABT-99-4.600	6.3	6.3	4.7	5.2	5.3	5.8	5.2
Brightstar SLT (PST-2A6B)	7.7	6.3	4.7	5.2	5.1	5.9	5.2
UT-1000 (ABT-99-4.709)	7.3	6.7	4.8	5.4	5.1	5.6	5.2
CIS-PR-84	8.0	6.7	4.8	5.3	5.0	5.8	5.2
Charger II	7.0	6.3	5.8	4.8	4.8	5.5	5.2
Pick MDR	7.7	6.7	4.4	5.2	5.2	6.1	5.2
SR 4500	7.0	6.3	4.9	5.0	5.2	5.8	5.2
Affirmed	7.0	6.3	5.0	5.0	5.1	5.7	5.2
APR 1231	6.3	6.3	5.2	5.0	5.1	5.5	5.2
Manhattan 3	7.0	6.3	4.7	5.3	5.1	5.7	5.2
Manhattan (PST-2CRL)	7.7	5.3	4.7	5.3	5.0	5.7	5.2
Pick EX2	6.3	6.0	4.8	5.3	5.0	5.6	5.2
APR 1233	6.7	6.3	4.8	5.3	5.0	5.7	5.2
Ascend	7.7	6.3	5.2	5.2	4.8	5.6	5.2
Gator 3 (CIS-PR-85)	7.7	7.0	4.7	4.9	5.1	6.0	5.2
Brightstar II	7.3	5.7	4.7	5.3	5.1	5.6	5.2
MB 411 (ABT-99-4.753)	7.7	6.7	5.1	5.0	4.8	5.8	5.2
ABT-99-4.115	7.0	6.7	4.4	5.1	5.1	5.9	5.2
Extreme (JR-317)	6.7	6.3	4.6	5.0	5.1	5.9	5.2
PST-2CRR	8.0	6.7	5.1	5.2	4.9	5.5	5.2
MB 414 (ABT-99-4.903)	7.3	6.3	5.3	5.0	4.8	5.5	5.2
Premier II	7.0	7.0	4.8	4.9	5.0	5.8	5.1
ABT-99-4.339	7.0	6.3	5.2	4.6	5.0	5.7	5.1
Palmer III	7.7	6.3	5.6	4.3	4.9	5.7	5.1
Pennant II	7.3	6.7	4.8	5.0	4.9	5.7	5.1
Elfkin	7.3	6.3	4.7	4.8	5.0	5.9	5.1
SRX 4801	7.7	6.3	4.3	5.0	5.0	6.1	5.1
Pick PR QH-97	7.3	6.7	4.1	5.2	5.1	6.0	5.1
Secretariat	6.7	7.0	5.3	4.6	4.9	5.6	5.1
A5C (ABT-99-4.960)	8.0	6.7	5.2	4.6	4.8	5.8	5.1
Passport	6.7	6.7	5.2	5.0	4.8	5.3	5.1
Superstar (EP57)	7.0	6.7	4.9	4.9	4.9	5.6	5.1
APR 1232	6.3	7.0	4.7	5.0	5.0	5.6	5.1
Paragon	7.0	6.3	4.4	5.1	5.0	5.8	5.1
Panther	6.7	6.7	5.1	4.7	4.8	5.7	5.1
Monterey II (JR-187)	7.0	7.0	4.6	5.0	5.0	5.7	5.1
Cabo (CIS-PR-80)	8.0	6.7	4.5	5.1	5.0	5.7	5.1
SRX 4120	6.7	6.3	5.3	4.6	4.8	5.5	5.1
Cathedral II	6.3	6.0	4.1	5.3	5.1	5.8	5.1
MB 413 (ABT-99-4.633)	7.3	5.0	4.7	5.1	4.8	5.6	5.1
YatsuGreen	6.0	6.7	5.5	4.7	4.8	5.2	5.0
Allsport	7.0	6.7	5.0	4.8	5.0	5.4	5.0
PST-CATS	7.7	5.7	4.6	5.1	5.0	5.5	5.0
ABT-99-4.965	8.0	6.3	4.7	5.0	4.9	5.6	5.0
LTP ME	7.3	6.7	4.6	4.9	4.9	5.8	5.0
Galaxy (JR-128)	7.7	6.3	4.4	5.1	5.1	5.5	5.0

Skyhawk	7.0	6.0	4.5	5.4	4.9	5.3	5.0
Affinity	6.3	6.0	4.8	5.0	4.8	5.5	5.0
Line Drive	7.0	7.0	4.6	4.8	5.0	5.7	5.0
MP103	7.7	6.7	5.1	4.9	4.6	5.5	5.0
Pinnacle II (BAR 9 B2)	8.0	7.0	4.4	4.8	4.9	6.0	5.0
MP58	7.0	6.3	4.3	5.0	4.9	5.8	5.0
Calypso II	6.7	6.7	4.1	4.9	5.2	5.8	5.0
Paradigm (APR 1236)	7.0	6.7	4.1	5.1	5.0	5.7	5.0
Admire (JR-151)	6.3	6.3	4.2	4.8	5.1	5.8	5.0
LPR 98-144	6.3	6.7	4.7	5.0	4.9	5.3	5.0
ABT-99-4.815	7.0	6.7	4.1	5.2	5.0	5.6	4.9
MP107	7.7	6.7	4.2	4.9	4.9	5.8	4.9
Phantom	7.3	6.3	4.8	4.8	4.7	5.5	4.9
BY-100	6.0	7.0	4.6	4.8	5.0	5.3	4.9
ABT-99-4.625	8.0	6.7	4.4	4.9	4.7	5.8	4.9
Nexus	7.3	6.7	4.2	5.0	4.9	5.6	4.9
CIS-PR-75	7.0	6.3	4.3	5.1	4.6	5.5	4.9
MEPY	7.0	6.7	4.3	4.8	4.8	5.6	4.9
ABT-99-4.721	7.3	6.7	3.8	5.1	5.1	5.6	4.9
WVPB-R-84	6.3	6.7	4.6	4.7	4.9	5.3	4.9
APR 1234	6.0	6.3	4.9	4.8	4.7	5.0	4.9
Buccaneer	6.3	6.7	4.6	4.8	4.8	5.2	4.8
DP LP-1	5.7	7.0	4.8	4.5	4.8	5.2	4.8
Koos R-71	6.0	6.7	4.8	4.5	4.8	5.3	4.8
CAS-LP84	8.0	6.3	4.1	4.8	4.7	5.7	4.8
Edge	5.7	6.3	4.2	4.8	5.0	5.3	4.8
EDP	7.7	6.0	3.6	5.0	4.9	5.7	4.8
Premier	6.3	6.7	4.4	4.3	4.8	5.7	4.8
WVPB-R-82	6.3	5.7	5.1	4.5	4.7	5.0	4.8
Headstart	6.3	6.3	4.2	4.8	4.9	5.3	4.8
DP 17-9391	5.7	6.3	4.4	4.5	5.0	5.1	4.7
DP 17-9069	6.0	7.0	4.2	4.6	4.8	5.3	4.7
MDP	8.0	6.3	3.7	4.8	4.8	5.5	4.7
Prospert (AG-P981)	7.0	5.7	3.9	4.6	5.0	5.2	4.7
LPR 98-143	6.0	5.7	3.8	4.8	4.5	4.5	4.4
DP 17-9496	5.3	6.3	3.8	4.5	4.4	4.5	4.3
Linn	5.7	6.3	2.9	3.9	3.3	3.3	3.4
LSD (0.05)	0.7	1.1	1.3	0.6	0.3	0.4	0.4

^a 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.

^b Color was rated on a scale of 1 to 9 where 1 = light green and 9 = ideal dark green.

^c Green up was rated on a scale of 1 to 9 where 1 = dormant and 9 = green.