

1999 NTEP Perennial Ryegrass Test – 2002 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, primarily because it germinates rapidly. Perennial ryegrass has good wear tolerance, and fair shade tolerance. However, it has poor drought, heat tolerance, and disease 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 is 2.5 inches and the experiment is 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 is applied to the plots.

Data collected in 2002 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 49 cultivars (Table 1).
- There are no statistical differences in the top 34 cultivars in the three year average visual quality (Table 2).
- Pizzazz, All Star2, Applaud, Charismatic, Exacta, Pick PR B-97, PST-2M4, Inspire, Catalina, Pentium, PST-2JH, PST-2LA, Amazing, Barlennium, Kokomo, Majesty, Prowler, PST-2RT, and Seville II are the only nineteen cultivars that were in the top 49 in 2002 and the top 34 in the 3 year average.
- Linn is a standard entry and is one an early selections of turf-type perennial ryegrass. It appears at the bottom of Table 1 and Table 2, indicating the advances made in selection and breeding for this species.
- When making cultivar selections, it is best to consult the NTEP web page at www.ntep.org for complete performance data from around the country on cultivars, placing special emphasis on how cultivars perform in IN, IL, KY, MI and/or OH (depending if you are located in northern, central, or southern IN) under the specific maintenance regime you intend for that grass.

Table 1. Visual quality ratings for 134 cultivars of perennial ryegrass growing under home lawn maintenance in 2002.

Cultivar	Apr	May	June	July	Aug	Sep	Oct	Nov	Avg
ABT-99-4.600	6.0	6.0	5.0	3.0	4.7	5.0	6.3	6.0	5.3
ABT-99-4.834	5.7	5.7	5.0	3.0	5.0	5.3	6.0	6.7	5.3
All Star2 (CIS-PR-78)	5.7	6.0	5.0	3.0	4.7	5.7	6.0	6.0	5.3
Applaud (Pennington-11301)	6.3	6.0	5.3	3.0	4.3	5.3	6.0	6.0	5.3
Charismatic (LTP 98-501)	5.7	6.0	5.0	3.0	5.0	5.3	6.3	6.0	5.3
DLF-LDD	6.0	6.3	5.3	3.0	5.0	5.0	6.0	6.0	5.3
Pentium (NJ-6401)	6.0	6.0	5.0	3.0	5.0	5.0	6.0	6.0	5.3
Pizzazz	5.7	6.0	5.0	3.0	5.0	5.3	6.7	6.0	5.3
PST-2JH	6.3	6.0	5.0	3.0	5.0	5.0	5.7	6.0	5.3
PST-2M4	6.0	5.7	5.3	3.3	5.0	5.3	5.7	6.0	5.3
Inspire (R8000)	6.0	6.0	5.0	3.0	5.0	5.0	5.7	6.3	5.3
Mach 1 (Roberts-627)	5.7	6.0	5.0	2.7	5.0	5.7	6.3	6.3	5.3
APR 1237	5.7	6.0	5.0	3.3	5.3	5.0	5.3	5.7	5.2
Calypso II	6.0	5.7	5.3	3.0	5.0	5.0	5.3	6.0	5.2
Pacesetter (6011)	5.7	6.0	5.0	3.0	5.0	5.0	5.7	6.0	5.2
Blazer IV (Pick MDR)	5.7	6.0	4.7	3.0	5.3	5.0	5.7	6.0	5.2
Pick PR B-97	6.0	6.7	5.0	3.0	4.7	5.0	5.7	5.7	5.2
Prowler (APR 777)	6.0	6.0	5.7	3.7	4.7	5.0	5.0	5.3	5.2
PST-2RT	6.0	6.0	5.0	3.0	5.0	5.0	5.7	6.0	5.2
Salinas (PST-2SLX)	5.3	6.3	5.0	3.0	5.0	5.0	6.0	5.7	5.2
Seville II	6.0	6.0	5.0	3.0	4.7	5.3	5.3	6.3	5.2
SR 4500	6.0	6.0	5.0	3.3	4.7	5.0	5.7	5.7	5.2
SR 4420 (SRX 4820)	5.7	6.0	5.0	3.0	5.0	5.0	5.7	6.0	5.2
ABT-99-4.115	5.7	5.7	5.0	3.0	5.0	5.3	5.7	5.7	5.1
ABT-99-4.560	5.7	5.7	5.0	3.0	4.7	5.3	5.7	5.7	5.1
ABT-99-4.721	5.0	6.0	5.0	3.0	4.7	5.0	6.0	6.0	5.1
Admire (JR-151)	5.3	6.0	5.3	3.3	5.0	5.0	5.3	5.7	5.1
Affirmed	5.7	5.7	5.3	3.0	5.0	5.3	5.3	5.7	5.1
Amazing (B1)	5.7	5.7	5.0	3.0	4.7	5.3	5.7	5.7	5.1
APR 1231	6.3	6.0	5.3	3.3	4.3	5.0	5.3	5.3	5.1
Barlennium	6.0	5.7	5.0	3.0	5.0	5.0	5.3	6.0	5.1
Brightstar II	5.3	6.3	5.0	3.0	4.3	5.0	5.7	6.0	5.1
Brightstar SLT (PST-2A6B)	6.0	6.0	5.0	3.0	4.7	5.0	5.3	6.0	5.1
Catalina	5.7	6.0	5.0	3.0	4.7	5.0	5.3	6.0	5.1
Cathedral II	6.0	5.7	5.0	3.0	4.3	5.0	5.7	6.0	5.1
Divine	5.7	6.7	5.3	3.0	5.0	5.0	5.0	5.3	5.1
Exacta	5.7	6.0	5.0	3.3	4.3	5.0	5.3	6.0	5.1
Extreme (JR-317)	5.7	6.0	5.0	3.3	5.0	5.0	5.0	5.7	5.1
Galaxy (JR-128)	5.3	6.0	5.0	3.3	5.0	5.0	5.3	5.7	5.1
Gator 3 (CIS-PR-85)	5.3	6.0	5.0	3.0	5.0	5.0	5.7	6.0	5.1
Kokomo (CIS-PR-69)	5.7	5.7	5.0	3.0	5.0	5.3	5.3	6.0	5.1
Majesty	6.0	6.0	5.0	3.0	4.3	5.0	5.7	5.7	5.1
Manhattan 3	5.7	6.0	5.0	3.3	5.0	5.0	5.3	5.7	5.1
Pick PR QH-97	5.7	6.0	5.0	3.0	5.0	5.0	5.3	6.0	5.1
Pick PRNGS	5.7	6.0	5.0	3.0	4.7	5.0	5.7	6.0	5.1

Grand Slam (PST-2L96)	5.3	6.0	5.0	3.3	4.7	5.0	5.3	6.0	5.1
PST-2LA	5.7	6.3	5.3	3.0	4.3	5.0	5.3	5.7	5.1
PST-2SBE	6.0	6.0	5.0	3.0	4.7	5.0	5.3	5.7	5.1
UT-1000 (ABT-99-4.709)	5.3	6.0	5.0	3.0	4.7	5.0	5.7	6.0	5.1
ABT-99-4.339	5.7	6.0	5.0	3.0	4.3	5.0	5.3	5.3	5.0
ABT-99-4.464	5.3	5.7	5.0	3.0	4.7	5.3	5.3	5.7	5.0
ABT-99-4.724	5.7	6.0	5.0	3.0	4.7	5.0	5.3	5.7	5.0
ABT-99-4.815	5.7	6.0	5.0	3.0	4.7	5.0	5.0	5.3	5.0
Allsport	5.3	5.7	5.0	3.0	4.3	5.0	5.7	5.7	5.0
APR 1232	5.7	5.7	5.0	3.3	5.0	5.0	5.0	5.7	5.0
APR 1233	6.0	5.7	5.0	3.3	4.3	5.0	5.0	5.3	5.0
APR 1235	5.7	6.0	5.3	3.0	4.3	5.0	5.3	5.7	5.0
APR 776	5.7	6.0	5.0	3.3	5.0	5.0	5.0	5.3	5.0
BY-100	6.0	5.0	5.0	3.7	4.7	5.0	5.3	5.3	5.0
Cabo (CIS-PR-80)	5.7	6.0	5.0	3.3	4.7	5.0	5.0	5.0	5.0
Churchill	5.7	6.0	5.0	3.0	5.0	5.0	5.0	5.3	5.0
CIS-PR-84	5.7	6.0	5.0	2.7	4.7	5.0	5.7	5.7	5.0
Racer II (Pick RC2)	5.7	6.0	5.0	3.3	4.7	5.0	5.3	5.3	5.0
DP 17-9391	5.3	6.0	5.0	4.0	4.7	5.0	4.7	5.0	5.0
Edge	5.7	5.7	5.0	3.7	4.7	4.7	5.0	5.7	5.0
Elfkin	5.7	5.7	5.0	3.0	4.7	5.0	5.3	5.7	5.0
Fiesta III	6.3	5.0	5.0	3.0	4.3	5.0	5.7	6.0	5.0
Jet	5.7	5.3	5.0	3.0	4.7	5.0	5.3	6.0	5.0
Line Drive	6.0	5.7	5.0	3.0	4.3	5.0	5.0	6.0	5.0
Manhattan 4 (PST-2CRL)	5.7	6.0	5.0	3.0	4.7	5.0	5.3	5.7	5.0
Courage (MB 410 (ABT-99-4.629))	5.7	6.0	5.0	3.0	4.3	5.0	5.3	6.0	5.0
Gallery (MB 412 (ABT-99-4.461))	5.0	6.3	5.0	3.0	4.3	5.0	5.3	5.7	5.0
Monterey II (JR-187)	5.3	6.0	5.3	3.0	5.0	5.0	5.0	5.3	5.0
Paradigm (APR 1236)	5.7	6.0	5.0	3.3	4.7	5.0	5.3	5.3	5.0
Paragon	5.7	6.0	5.0	2.3	4.3	5.0	5.7	6.0	5.0
Pick EX2	5.3	6.0	5.0	4.0	4.7	5.0	5.0	5.3	5.0
Premier II	5.7	6.0	4.7	3.0	5.0	5.0	5.3	5.7	5.0
Promise	5.7	5.7	4.7	3.0	4.3	5.0	5.3	6.0	5.0
Prosport (AG-P981)	5.0	6.0	5.0	3.0	4.0	5.0	5.7	6.0	5.0
Citation Fore (PST-2BR)	5.0	5.7	5.0	3.0	5.0	5.0	5.7	6.0	5.0
Catalina II (PST-CATS)	5.7	6.0	5.0	2.7	4.7	5.0	5.0	5.7	5.0
Racer	6.0	5.7	4.7	3.0	4.7	5.0	5.7	5.7	5.0
SR4220 (SRX 4801)	5.0	6.0	5.0	3.0	5.0	5.0	5.3	5.7	5.0
Hawkeye (SRX 4RHT)	6.0	5.3	5.0	3.0	5.0	5.0	5.3	5.3	5.0
Stellar (CIS-PR-72)	5.7	5.0	5.0	3.3	4.3	5.0	6.0	6.0	5.0
Wilmington	5.7	6.0	5.0	3.0	4.0	5.0	5.3	5.7	5.0
ABT-99-4.965	5.3	6.0	4.7	3.0	4.7	5.0	5.3	5.0	4.9
EDP	5.0	6.0	5.3	3.0	4.3	4.7	5.0	5.7	4.9
EP53	5.7	5.7	4.7	3.0	4.0	5.0	5.3	5.7	4.9
Headstart	6.0	6.0	5.0	3.0	4.0	4.7	5.0	5.3	4.9
LPR 98-144	6.0	6.0	5.3	3.0	4.0	5.0	4.7	5.0	4.9
LTP ME	5.7	5.3	5.0	3.0	4.3	5.0	5.0	5.7	4.9
MP107	5.3	6.0	5.3	3.0	4.0	4.7	5.3	5.3	4.9
MP58	5.0	6.7	5.0	3.0	4.0	5.0	5.0	5.3	4.9
Nexus	5.0	6.3	5.0	2.7	4.3	5.0	5.3	5.7	4.9
Palmer III	6.0	5.0	5.0	3.0	4.0	5.0	5.3	6.0	4.9

Pennant II	5.7	6.0	5.0	3.0	4.0	4.7	5.3	5.7	4.9
Pick PR 1-94	5.7	5.7	5.0	3.0	4.0	5.0	5.3	5.7	4.9
Pinnacle II (BAR 9 B2)	4.7	5.3	5.0	3.0	4.7	5.0	5.7	5.7	4.9
Pleasure XL	6.0	6.0	4.7	3.0	4.3	5.0	5.0	5.0	4.9
PST-2CRR	6.0	6.0	4.7	3.0	4.3	4.7	5.3	5.3	4.9
Secretariat	5.3	5.3	5.0	3.0	5.0	5.0	5.0	5.3	4.9
Skyhawk	5.7	6.0	5.0	2.7	3.7	5.0	5.3	5.7	4.9
Superstar (EP57)	6.0	5.7	4.7	3.3	4.0	4.7	5.3	5.3	4.9
WVPB-R-84	6.0	5.0	5.0	3.7	4.7	4.7	5.0	5.3	4.9
Terradyne (A5C (ABT-99-4.960))	5.3	5.7	5.0	2.7	4.3	5.0	5.3	5.3	4.8
Affinity	6.0	4.7	5.0	3.0	4.3	5.0	5.0	5.7	4.8
Ascend	5.7	6.0	4.7	2.7	4.0	5.0	5.3	5.3	4.8
Buccaneer	5.7	5.3	5.0	3.7	4.0	4.3	4.7	5.3	4.8
Charger II	5.3	5.3	5.0	3.0	3.7	4.7	5.7	5.7	4.8
DP 17-9069	5.0	5.7	5.0	3.7	4.0	4.7	5.0	5.0	4.8
DP LP-1	5.3	5.7	5.0	3.3	4.0	4.7	5.0	5.7	4.8
Koos R-71	5.7	5.0	5.0	3.0	4.0	5.0	5.0	5.3	4.8
Splendid (MB 411 (ABT-99-4.753))	5.0	6.3	4.7	2.3	4.0	5.0	5.3	5.7	4.8
Summerset (MB 413 (ABT-99-4.633))	5.0	6.3	4.7	2.7	3.7	4.7	5.7	5.3	4.8
Icon (MB 414 (ABT-99-4.903))	5.0	6.0	4.7	2.7	4.0	5.0	5.3	5.3	4.8
MDP	5.3	6.0	5.3	3.0	4.0	4.3	5.0	5.0	4.8
MEPY	5.0	6.0	5.0	3.0	4.0	4.7	5.3	5.7	4.8
Panther	5.3	5.7	5.0	3.0	4.0	5.0	5.0	5.7	4.8
Passport	5.7	5.7	5.0	3.0	4.0	5.0	5.0	5.3	4.8
Premier	5.3	5.3	5.0	3.0	4.3	5.0	4.7	5.3	4.8
Radiant	5.0	6.3	4.7	2.7	4.0	4.7	5.7	5.7	4.8
SRX 4120	5.7	5.0	5.0	3.0	4.0	5.0	5.3	5.3	4.8
YatsuGreen	5.3	4.3	4.7	3.7	4.0	5.0	5.0	6.0	4.8
ABT-99-4.625	5.0	5.7	5.0	3.0	4.0	4.7	5.0	5.0	4.7
APR 1234	6.0	6.0	4.0	3.0	3.7	5.0	4.7	5.0	4.7
CAS-LP84	5.3	6.0	5.0	3.0	4.0	4.7	5.0	4.7	4.7
Phantom	5.7	5.7	4.3	3.0	4.0	4.3	5.0	5.7	4.7
WVPB-R-82	5.3	5.3	4.7	3.3	3.7	4.7	5.3	5.0	4.7
CIS-PR-75	5.0	6.0	4.7	2.7	4.0	5.0	4.7	5.0	4.6
MP103	5.3	5.7	5.0	2.7	4.0	4.3	5.0	5.0	4.6
LPR 98-143	5.3	5.7	4.0	3.3	4.0	4.3	4.7	5.0	4.5
DP 17-9496	5.0	4.0	4.0	4.3	4.0	4.3	4.7	5.0	4.4
Linn	4.0	3.0	3.0	3.3	3.0	3.0	3.0	4.0	3.3
LSD (0.05)	0.9	0.6	0.5	0.5	0.7	0.5	0.8	0.7	0.3

^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 green-up 2002, and yearly average visual quality for 2000, 2001, 2002, and three year average of 134 cultivars of perennial ryegrass growing under home lawn maintenance.

Cultivar	Genetic color ^b	Spring greenup ^c	Visual quality ^a			
			2000	2001	2002	Avg
Pizzazz	7.0	4.7	6.2	5.3	5.3	5.6
All Star2 (CIS-PR-78)	7.0	4.0	6.1	5.1	5.3	5.5
ABT-99-4.724	7.0	4.3	6.1	5.0	5.0	5.4
Applaud (Pennington-11301)	6.7	4.7	5.3	5.5	5.3	5.4
Charismatic (LTP 98-501)	6.7	4.0	5.5	5.4	5.3	5.4
Exacta	6.7	3.7	5.9	5.1	5.1	5.4
Pick PR 1-94	6.3	4.0	5.9	5.3	4.9	5.4
Pick PR B-97	6.7	4.0	5.6	5.5	5.2	5.4
PST-2M4	6.0	3.7	5.6	5.3	5.3	5.4
Inspire (R8000)	7.0	4.7	5.9	5.1	5.3	5.4
APR 1235	6.0	3.0	5.9	5.0	5.0	5.3
Catalina	6.3	4.3	5.9	4.9	5.1	5.3
Churchill	6.0	4.3	5.7	5.1	5.0	5.3
Pentium (NJ-6401)	7.0	3.7	5.2	5.4	5.3	5.3
Promise	6.0	4.3	5.9	5.0	5.0	5.3
PST-2JH	6.3	4.0	5.3	5.3	5.3	5.3
PST-2LA	6.0	3.3	5.5	5.2	5.1	5.3
Racer	6.0	4.7	5.4	5.4	5.0	5.3
Radiant	6.7	3.7	5.7	5.2	4.8	5.3
Hawkeye (SRX 4RHT)	6.7	4.3	5.7	5.3	5.0	5.3
Amazing (B1)	7.0	4.7	5.5	5.0	5.1	5.2
APR 776	6.0	3.7	5.3	5.2	5.0	5.2
Barlennium	6.0	3.7	5.2	5.3	5.1	5.2
Fiesta III	6.0	4.7	5.7	5.0	5.0	5.2
Kokomo (CIS-PR-69)	6.7	4.3	5.3	5.0	5.1	5.2
Majesty	6.7	4.0	5.5	4.9	5.1	5.2
Courage (MB 410 (ABT-99-4.629))	6.3	3.7	5.4	5.2	5.0	5.2
Pleasure XL	6.0	3.7	5.4	5.2	4.9	5.2
Prowler (APR 777)	6.0	3.0	5.1	5.3	5.2	5.2
Citation Fore (PST-2BR)	7.0	4.0	5.6	5.0	5.0	5.2
PST-2RT	6.3	4.3	5.2	5.3	5.2	5.2
Seville II	7.0	4.3	5.4	5.1	5.2	5.2
Stellar (CIS-PR-72)	7.0	4.3	5.6	4.9	5.0	5.2
Wilmington	6.7	4.0	5.4	5.2	5.0	5.2
ABT-99-4.464	6.0	3.3	5.5	4.7	5.0	5.1
APR 1231	6.0	3.7	5.2	5.0	5.1	5.1
APR 1237	6.0	3.7	5.1	5.2	5.2	5.1
Ascend	6.3	3.3	5.2	5.2	4.8	5.1
Charger II	6.0	4.7	5.8	4.8	4.8	5.1
CIS-PR-84	7.0	4.0	4.8	5.3	5.0	5.1
Racer II (Pick RC2)	6.0	3.7	5.3	5.0	5.0	5.1
Divine	6.0	3.7	5.1	5.2	5.1	5.1

DLF-LDD	7.0	4.0	4.7	5.3	5.3	5.1
EP53	6.3	3.3	5.6	4.9	4.9	5.1
Jet	6.7	4.3	5.3	4.9	5.0	5.1
Manhattan 3	6.0	3.3	4.7	5.3	5.1	5.1
Gallery (MB 412 (ABT-99-4.461))	7.0	3.7	4.9	5.4	5.0	5.1
Pacesetter (6011)	6.0	3.7	4.8	5.3	5.2	5.1
Pick EX2	5.3	3.7	4.8	5.3	5.0	5.1
Grand Slam (PST-2L96)	6.7	4.0	5.2	5.2	5.1	5.1
PST-2SBE	6.7	3.7	4.7	5.6	5.1	5.1
Salinas (PST-2SLX)	6.7	4.3	4.4	5.8	5.2	5.1
SR 4420 (SRX 4820)	6.7	4.3	5.2	5.0	5.2	5.1
UT-1000 (ABT-99-4.709)	6.7	4.0	4.8	5.4	5.1	5.1
ABT-99-4.560	6.3	3.7	5.2	4.8	5.1	5.0
ABT-99-4.600	6.0	4.7	4.7	5.2	5.3	5.0
ABT-99-4.834	6.7	5.0	4.3	5.3	5.3	5.0
Affirmed	6.3	4.0	5.0	5.0	5.1	5.0
APR 1233	6.0	3.0	4.8	5.3	5.0	5.0
Brightstar II	7.0	3.3	4.7	5.3	5.1	5.0
Brightstar SLT (PST-2A6B)	6.7	4.0	4.7	5.2	5.1	5.0
Manhattan 4 (PST-2CRL)	7.0	4.0	4.7	5.3	5.0	5.0
Splendid (MB 411 (ABT-99-4.753))	7.0	3.7	5.1	5.0	4.8	5.0
Icon (MB 414 (ABT-99-4.903))	7.0	3.7	5.3	5.0	4.8	5.0
Passport	6.0	3.7	5.2	5.0	4.8	5.0
Pick PRNGS	6.0	4.0	4.8	5.0	5.1	5.0
PST-2CRR	6.7	4.0	5.1	5.2	4.9	5.0
Mach 1 (Roberts-627)	7.0	5.0	4.4	5.3	5.3	5.0
SR 4500	6.0	4.0	4.9	5.0	5.2	5.0
YatsuGreen	5.7	4.7	5.5	4.7	4.8	5.0
Terradyne (A5C (ABT-99-4.960))	7.0	4.0	5.2	4.6	4.8	4.9
ABT-99-4.115	6.0	4.0	4.4	5.1	5.1	4.9
ABT-99-4.339	6.0	4.0	5.2	4.6	5.0	4.9
Affinity	5.3	4.3	4.8	5.0	4.8	4.9
Allsport	6.7	4.0	5.0	4.8	5.0	4.9
APR 1232	5.7	3.0	4.7	5.0	5.0	4.9
Cabo (CIS-PR-80)	7.0	3.7	4.5	5.1	5.0	4.9
Extreme (JR-317)	6.7	4.0	4.6	5.0	5.1	4.9
Galaxy (JR-128)	6.7	3.0	4.4	5.1	5.1	4.9
Gator 3 (CIS-PR-85)	6.3	4.0	4.7	4.9	5.1	4.9
Summerset (MB 413 (ABT-99-4.633))	7.0	4.0	4.7	5.1	4.8	4.9
MP103	6.7	3.7	5.1	4.9	4.6	4.9
Palmer III	6.0	4.3	5.6	4.3	4.9	4.9
Panther	6.3	4.0	5.1	4.7	4.8	4.9
Pennant II	7.0	3.3	4.8	5.0	4.9	4.9
Blazer IV (Pick MDR)	7.0	4.0	4.4	5.2	5.2	4.9
Premier II	6.0	3.7	4.8	4.9	5.0	4.9
Catalina II (PST-CATS)	6.7	4.3	4.6	5.1	5.0	4.9
Secretariat	6.0	4.7	5.3	4.6	4.9	4.9
Skyhawk	6.7	3.0	4.5	5.4	4.9	4.9
SRX 4120	6.0	5.0	5.3	4.6	4.8	4.9
Superstar (EP57)	6.7	3.3	4.9	4.9	4.9	4.9
ABT-99-4.965	7.0	4.7	4.7	5.0	4.9	4.8

APR 1234	5.7	3.7	4.9	4.8	4.7	4.8
BY-100	5.7	4.7	4.6	4.8	5.0	4.8
Cathedral II	6.0	3.3	4.1	5.3	5.1	4.8
Elfkin	6.3	3.7	4.7	4.8	5.0	4.8
Line Drive	6.0	4.0	4.6	4.8	5.0	4.8
LPR 98-144	6.0	3.7	4.7	5.0	4.9	4.8
LTP ME	6.7	4.0	4.6	4.9	4.9	4.8
Monterey II (JR-187)	6.0	3.3	4.6	5.0	5.0	4.8
Paragon	6.3	3.7	4.4	5.1	5.0	4.8
Phantom	6.3	4.0	4.8	4.8	4.7	4.8
Pick PR QH-97	7.0	3.3	4.1	5.2	5.1	4.8
SR4220 (SRX 4801)	7.0	3.7	4.3	5.0	5.0	4.8
ABT-99-4.625	7.0	3.3	4.4	4.9	4.7	4.7
ABT-99-4.815	6.3	3.7	4.1	5.2	5.0	4.7
Admire (JR-151)	6.0	3.7	4.2	4.8	5.1	4.7
Buccaneer	5.7	4.0	4.6	4.8	4.8	4.7
Calypso II	6.3	4.0	4.1	4.9	5.2	4.7
CIS-PR-75	7.0	3.3	4.3	5.1	4.6	4.7
DP LP-1	5.3	3.3	4.8	4.5	4.8	4.7
Edge	5.7	4.0	4.2	4.8	5.0	4.7
Koos R-71	6.0	4.0	4.8	4.5	4.8	4.7
MP107	6.7	4.0	4.2	4.9	4.9	4.7
MP58	6.3	3.0	4.3	5.0	4.9	4.7
Nexus	6.7	3.0	4.2	5.0	4.9	4.7
Paradigm (APR 1236)	6.0	3.0	4.1	5.1	5.0	4.7
Pinnacle II (BAR 9 B2)	7.0	3.7	4.4	4.8	4.9	4.7
WVPB-R-82	5.7	3.7	5.1	4.5	4.7	4.7
WVPB-R-84	6.0	3.7	4.6	4.7	4.9	4.7
ABT-99-4.721	7.0	3.0	3.8	5.1	5.1	4.6
DP 17-9391	5.0	3.7	4.4	4.5	5.0	4.6
Headstart	6.3	4.0	4.2	4.8	4.9	4.6
MEPY	7.0	3.7	4.3	4.8	4.8	4.6
CAS-LP84	6.3	3.3	4.1	4.8	4.7	4.5
DP 17-9069	5.7	3.7	4.2	4.6	4.8	4.5
EDP	6.3	3.0	3.6	5.0	4.9	4.5
Premier	6.0	4.0	4.4	4.3	4.8	4.5
Prospert (AG-P981)	6.0	3.3	3.9	4.6	5.0	4.5
LPR 98-143	6.0	3.7	3.8	4.8	4.5	4.4
MDP	7.0	3.3	3.7	4.8	4.8	4.4
DP 17-9496	5.0	4.3	3.8	4.5	4.4	4.3
Linn	5.3	4.7	2.9	3.9	3.3	3.4
LSD (0.05)	0.6	1.0	1.2	0.5	0.3	0.5

^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.