

NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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A Guide to NTEP Turfgrass Ratings

Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

1999 NATIONAL PERENNIAL RYEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2003

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Sunnyvale	CA6
Illinois	Urbana	IL1
Illinois	Carbondale	IL2
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Maine	Orono	ME1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New Jersey	North Brunswick (Traffic Study)	NJ3
New York	Ithaca	NY1
New York	Ithaca (Traffic Study)	NY2
Pennsylvania	University Park	PA1
Quebec	Quebec	QE1
South Dakota	Brookings	SD1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Puyallup (Fairway)	WA3
Wisconsin	Madison	WI1

1999 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

Entry	Name	Sponsor	Entry	Name	Sponsor
1	Calypso II	TurfOne	68	Citation Fore (PST-2BR)	Pure-Seed Testing, Inc.
2	Racer	TurfOne	69	Catalina II (PST-CATS)	Pure-Seed Testing, Inc.
3	Fiesta 3	Pickseed West, Inc.	70	Manhattan 4 (PST-2CRL)	Pure-Seed Testing, Inc.
4	Linn	Standard Entry	71	PST-2LA	Pure-Seed Testing, Inc.
5	Buccaneer	Standard Entry	72	Brightstar II	Turf-Seed, Inc.
6	PR 1-94 (Pick PR 1-94)	Pickseed West, Inc.	73	Catalina	Turf-Seed, Inc.
7	Passport	TurfOne	74	Manhattan 3	Turf-Seed, Inc./Turf Merchants
8	Headstart	TurfOne	75	Charger II	Turf-Seed, Inc.
9	LPR 98-143	Deutsche Saatveredelung	76	Palmer III	Standard Entry
10	LPR 98-144	Deutsche Saatveredelung	77	Phantom	ProSeeds Marketing, Inc.
11	YatsuGreen	Nichino Ryokka Co., Ltd.	78	ABT-99-4.339	Pure-Seed Testing, Inc.
12	Secretariat	Grassland West Company	79	ABT-99-4.464	ProSeeds Marketing, Inc.
13	Pizzazz	Turf Merchants, Inc.	80	ABT-99-4.600	Pure-Seed Testing, Inc.
14	Promise	Turf Merchants, Inc.	81	Quest II (ABT-99-4.721)	ProSeeds Marketing, Inc.
15	Paragon	Turf Merchants, Inc.	82	ABT-99-4.815	ProSeeds Marketing, Inc.
16	Racer II (Pick RC2)	TurfOne	83	Sunkissed (ABT-99-4.834)	ProSeeds Marketing, Inc.
17	Pick EX2	Pickseed West, Inc.	84	Cathedral II	ProSeeds Marketing, Inc.
18	Affinity	Standard Entry	85	Panther	ProSeeds Marketing, Inc.
19	APR 1234	Advanta Seeds Pacific, Inc.	86	Seville II	Pickseed West, Inc.
20	Renaissance (APR 1233)	Advanta Seeds Pacific, Inc.	87	Pennant II	ProSeeds Marketing, Inc.
21	Koos R-71	Willamette Valley Plant Breeders	88	DP 17-9496	DLF-Trifolium
22	WVPB-R-82	Willamette Valley Plant Breeders	89	DP LP-1	DLF-Trifolium
23	WVPB-R-84	Willamette Valley Plant Breeders	90	DP 17-9069	DLF-Trifolium
24	Paradigm (APR 1236)	Smith Seed Services	91	DP 17-9391	DLF-Trifolium
25	Nexus	Smith Seed Services	92	Allsport	LESCO, Inc.
26	DLF-LDD	DLF-Jenks	93	Line Drive	LESCO, Inc.
27	Pentium (NJ-6401)	Rutgers University	94	Wilmington	LESCO, Inc.
28	Mach 1 (Roberts-627)	TurfOne	95	Pacesetter (6011)	LESCO, Inc.
29	Charismatic (LTP 98-501)	Lebanon Seaboard Corp.	96	Prosport (AG-P981)	LESCO, Inc.
30	Applaud (Pennington-11301)	Pennington Seed Company	97	Prowler (APR 777)	Turf Merchants, Inc.
31	Kokomo (CIS-PR-69)	Grassland Oregon	98	APR 776	Advanta Seeds Pacific, Inc.
32	IQ (CIS-PR-75)	DLF International Seeds	99	APR 1231	Advanta Seeds Pacific, Inc.
33	All Star ² (CIS-PR-78)	DLF International Seeds	100	APR 1232	Advanta Seeds Pacific, Inc.
34	Cabo (CIS-PR-80)	Grassland Oregon	101	SR 4220 (SRX 4801)	Seed Research of Oregon
35	Arrival (CIS-PR-84)	LESCO, Inc.	102	SR 4500	Seed Research of Oregon
36	Gator 3 (CIS-PR-85)	DLF International Seeds	103	SRX 4120	Seed Research of Oregon
37	Inspire (R8000)	The Scotts Company	104	Hawkeye (SRX 4RHT)	Seed Research of Oregon
38	Majesty	The Scotts Company	105	Elfkin	DLF-Jenks
39	Divine	The Scotts Company	106	CAS-LP84	Cascade Int'l Seed Co.
40	Ascend	The Scotts Company	107	MDP	Cascade Int'l Seed Co.
41	Pleasure XL	Ampac Seed Company	108	Pearl II (EPD)	Mountain View Seeds, Ltd.
42	Amazing (B1)	Ampac Seed Company	109	EP53	Grassland West Co.
43	APR 1235	Advanta Seeds Pacific, Inc.	110	Superstar (EP57)	Mountain View Seeds, Ltd.
44	SR 4350 (APR 1237)	Seed Research of Oregon	111	Skyhawk	Forbes Seed & Grain
45	Churchill	Lebanon Seaboard Corp.	112	MP88	DLF-Jenks
46	Exacta	Lebanon Seaboard Corp.	113	MP107	Cascade International Seed Co.
47	Affirmed	Lebanon Seaboard Corp.	114	MP103	Cascade International Seed Co.
48	LTP-ME	Lebanon Seaboard Corp.	115	MEPY	DLF-Jenks
49	Barlennium	Barenbrug USA, Inc.	116	ABT-99-4.115	ProSeeds Marketing, Inc.
50	Pinnacle II (BAR 9 B2)	Barenbrug USA, Inc.	117	ABT-99-4.560	ProSeeds Marketing, Inc.
51	Premier II	Barenbrug USA, Inc.	118	ProTyme (ABT-99-4.625)	ProSeeds Marketing, Inc.
52	Premier	Standard Entry	119	Crusier (UT-1000)	Ultra-Turf
53	Monterey II (JR-187)	Jacklin Seed / Simplot	120	Dazzle (ABT-99-4.724)	ProSeeds Marketing, Inc.
54	JR-128	Jacklin Seed / Simplot	121	Terradyne (A5C)	Blue Moon Farms
55	Extreme (JR-317)	Jacklin Seed / Simplot	122	ABT-99-4.965	ProSeeds Marketing, Inc.
56	Admire (JR-151)	Jacklin Seed / Simplot	123	Stellar (CIS-PR-72)	Mountain View Seeds, Ltd.
57	Edge	Pickseed West, Inc.	124	PST-2JH	Pure-Seed Testing, Inc.
58	Pick PR QH-97	Pickseed West, Inc.	125	Grand Slam 2L96 (PST-2L96)	Mountain View Seed
59	Blazer IV (Pick MDR)	Pickseed West, Inc.	126	SR 4420 (SRX 4820)	Seed Research of Oregon
60	Pick PRNGS	Pickseed West, Inc.	127	Gallery (MB 412)	The Scotts Company
61	Pick PR B-97	Pickseed West, Inc.	128	Courage (MB 410)	The Scotts Company
62	PST-2RT	Pure-Seed Testing, Inc.	129	Summerset (MB 413)	The Scotts Company
63	Brightstar SLT (PST-2A6B)	Pure-Seed Testing, Inc.	130	Splendid (MB 411)	The Scotts Company
64	LS 2100 (PST-2SBE)	Lewis Seed	131	Icon (MB 414)	Burlingham Seed / LESCO
65	PST-2CRR	Pure-Seed Testing, Inc.	132	Radiant	ProSeeds Marketing, Inc.
66	PST-2M4	Pure-Seed Testing, Inc.	133	Jet	Pennington Seed Co.
67	Salinas (PST-2SLX)	Pure-Seed Testing, Inc.	134	BY-100	Brett Young Seeds, Ltd.

TABLE A.

2003 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1999 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA6	LOAM	6.6-7.0	61-150	0-150	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	0.0-1.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
IL2	SILTY CLAY LOAM	6.1-6.5	271-450	151-240	3.1-4.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	151-270	501+	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
KS1	SILT LOAM AND SILT	6.6-7.0	151-270	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
KY1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
ME1	-	-	-	-	-	-	-	-
MI1	SANDY LOAM	7.1-7.5	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
M01	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
NE1	SILTY CLAY LOAM	6.6-7.0	0-60	0-150	0.0-1.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SANDY LOAM	4.6-5.5	151-270	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	LOAM	6.6-7.0	271-450	376-500	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ3	SANDY LOAM	4.6-5.5	151-270	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NY1	SANDY LOAM	6.1-6.5	151-270	241-375	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NY2	SANDY LOAM	6.1-6.5	151-270	241-375	0.0-1.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
PA1	SILT LOAM AND SILT	6.6-7.0	151-270	0-150	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
SD1	SILTY CLAY LOAM	7.6-8.5	0-60	0-150	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
UT1	SILTY CLAY AND CLAY	7.6-8.5	61-150	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
VA1	-	-	-	-	-	-	-	-
WA1	SILT LOAM AND SILT	5.6-6.0	271-450	501+	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
WA3	SANDY LOAM	5.6-6.0	0-60	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
WI1	SILTY CLAY LOAM	6.6-7.0	61-150	376-500	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2003

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
CA6	X	X	X	X	X	X	X	X	X	X	X	X	X		
IA1					X	X	X	X	X	X			X	X	X
IL1				X	X	X	X	X	X	X			X		
IL2			X	X	X	X	X	X	X	X	X		X	X	
IN1				X	X	X	X	X	X	X	X		X	X	
KS1					X	X	X	X	X	X			X		X
KY1			X	X	X	X	X	X	X	X			X		
MD1					X	X	X	X	X	X			X	X	X
ME1				X	X	X	X	X	X				X		
MI1				X	X	X	X	X	X	X	X			X	
MO1			X	X	X	X	X	X	X	X	X		X		
NE1				X	X	X	X	X	X	X			X		
NJ1				X	X	X	X	X	X	X			X	X	X
NJ2				X	X	X	X	X	X	X	X		X		X
NJ3									X	X	X		X	X	X
NY1				X	X	X	X	X	X	X				X	
NY2				X	X	X	X	X	X	X	X			X	X
PA1					X	X	X	X	X	X			X		
QE1					X	X	X	X	X	X			X	X	
SD1				X	X	X	X	X	X	X			X		
UT1				X	X	X	X	X	X	X			X		
VA1			X	X	X	X	X	X	X	X	X		X	X	
WA1				X	X	X	X	X	X				X		
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X		
WI1				X	X	X	X	X	X	X	X		X	X	

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2003

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	RED THREAD	BROWN PATCH WARM TEMP.	GRAY LEAF SPOT	FALL COLOR SEPTEMBER	CRABGRASS RATINGS
CA6													
IA1													
IL1													
IL2													
IN1													
KS1													
KY1													
MD1													
ME1										X			
MI1	X	X	X		X								
M01						X							
NE1	X	X	X										
NJ1			X						X		X		
NJ2			X										
NJ3													
NY1													X
NY2													
PA1										X			
QE1	X	X	X										
SD1				X		X		X					
UT1													
VA1							X						
WA1													
WA3													
WI1				X	X	X						X	

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 GROWN AT NINE LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE A (HIGH MAINTENANCE/FAIRWAY)" **/
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	KY1	MD1	NE1	NY1	SD1	UT1	VA1	WA3	MEAN
* PIZZAZZ	7.0	7.5	6.4	7.5	6.7	4.4	5.2	4.5	5.8	6.1
* GATOR 3 (CIS-PR-85)	7.1	7.3	5.8	6.8	6.5	4.8	5.7	3.9	5.6	5.9
* SR 4420 (SRX 4820)	7.2	7.6	5.9	7.0	6.6	4.6	5.0	4.4	5.0	5.9
* APPLAUD (PENNINGTON-11301)	6.8	7.3	5.8	6.3	6.4	5.0	5.2	4.6	5.6	5.9
* INSPIRE (R8000)	7.2	7.4	6.1	6.8	6.6	4.7	4.7	4.0	5.7	5.9
* GRAND SLAM 2L96 (PST-2L96)	7.0	7.5	6.3	6.3	6.5	4.3	5.0	4.9	5.2	5.9
* QUEST II (ABT-99-4.721)	6.9	6.5	5.9	7.0	6.9	4.6	4.8	4.9	5.4	5.9
* SPLENDID (MB 411)	6.9	6.6	5.6	7.2	6.6	4.6	5.0	4.7	5.6	5.9
* ARRIVAL (CIS-PR-84)	6.8	6.5	5.9	7.0	6.6	4.9	4.9	4.6	5.8	5.9
* PINNACLE II (BAR 9 B2)	7.1	6.1	6.2	7.1	6.5	4.6	5.4	4.4	5.6	5.9
* CHARISMATIC (LTP 98-501)	7.0	7.0	6.2	6.9	6.4	4.6	4.8	4.1	5.6	5.8
* DAZZLE (ABT-99-4.724)	6.9	6.9	5.4	6.6	6.8	4.6	5.1	4.4	5.6	5.8
* BRIGHTSTAR SLT (PST-2A6B)	6.8	7.0	5.6	6.0	6.8	4.7	5.2	5.2	5.1	5.8
* CITATION FORE (PST-2BR)	6.6	7.3	5.9	6.5	6.8	4.4	4.9	3.9	6.1	5.8
* SEVILLE II	7.2	7.0	5.8	7.1	6.4	4.4	5.1	4.1	5.2	5.8
* SR 4220 (SRX 4801)	7.1	6.8	6.2	7.1	6.8	4.5	5.3	3.4	4.9	5.8
* GALLERY (MB 412)	6.9	7.3	5.7	7.4	6.5	4.5	5.1	3.8	4.9	5.8
* CABO (CIS-PR-80)	6.9	7.3	5.8	6.3	6.6	4.1	5.3	4.4	5.2	5.8
* JET	6.8	6.8	5.8	6.0	6.8	4.9	5.5	4.2	5.2	5.8
* SUNKISSED (ABT-99-4.834)	6.6	6.8	6.0	7.3	6.6	4.8	4.9	3.9	5.1	5.8
* KOKOMO (CIS-PR-69)	6.7	7.0	5.7	7.0	6.3	4.8	4.9	4.2	5.4	5.8
* HAWKEYE (SRX 4RHT)	6.9	6.3	5.3	7.2	6.5	5.1	5.2	4.0	5.4	5.8
* CALYPSO II	6.9	6.4	6.1	6.3	6.7	4.3	5.4	4.7	4.8	5.8
* TERRADYNE (A5C)	7.0	7.0	5.9	6.6	6.4	4.7	5.0	4.1	4.9	5.7
* MANHATTAN 4 (PST-2CRL)	6.2	7.3	5.6	6.1	6.7	4.6	4.7	4.9	5.6	5.7
* SALINAS (PST-2SLX)	6.6	7.0	5.7	5.5	6.7	4.7	4.8	5.0	5.5	5.7
* MACH 1 (ROBERTS-627)	6.4	6.3	6.3	6.5	6.4	4.8	4.8	3.9	6.2	5.7
* PENTIUM (NJ-6401)	7.0	6.8	5.9	6.1	6.5	4.5	5.0	4.1	5.6	5.7
* RADIANT	6.3	7.1	5.9	6.4	6.4	4.5	4.9	4.6	5.3	5.7
* STELLAR (CIS-PR-72)	6.5	7.5	6.1	6.2	6.6	4.6	4.9	4.3	4.8	5.7
* COURAGE (MB 410)	7.2	6.3	5.4	6.9	6.6	4.7	5.0	4.1	5.2	5.7
* AMAZING (B1)	6.3	7.0	5.8	7.0	6.8	4.7	5.1	3.7	4.9	5.7
* ASCEND	6.6	6.9	5.1	6.7	6.9	4.8	4.7	4.6	5.1	5.7
ABT-99-4.464	6.7	6.6	5.7	6.8	6.7	4.4	5.1	3.9	5.3	5.7
* SR 4500	6.2	6.9	6.1	6.5	6.2	4.2	5.4	4.3	5.4	5.7
* LS 2100 (PST-2SBE)	7.0	7.0	5.6	5.5	6.7	4.4	5.0	4.7	5.3	5.7
* SR 4350 (APR 1237)	6.8	6.7	5.4	6.8	6.6	4.3	5.1	4.4	5.0	5.7
* ELFKIN	6.9	6.6	5.6	6.4	7.0	4.6	4.9	4.0	5.1	5.7
DLF-LDD	6.7	7.0	5.8	5.8	6.3	4.5	5.3	4.5	5.1	5.7
* DIVINE	6.4	6.8	5.6	6.3	6.8	4.3	5.4	4.7	4.7	5.7
* PREMIER II	6.9	6.3	5.8	6.5	6.5	5.1	5.0	3.9	5.0	5.7
* PARAGON	6.7	6.8	5.6	6.9	6.5	4.6	5.0	3.7	5.2	5.7
* BLAZER IV (PICK MDR)	6.5	7.0	5.7	6.8	6.7	4.9	4.5	3.6	5.3	5.7
* CHURCHILL	7.6	5.7	5.8	6.3	6.5	4.8	5.0	4.3	5.0	5.7
* ALL STAR2 (CIS-PR-78)	6.5	7.2	6.0	6.7	6.6	4.6	4.7	3.8	4.8	5.7
ABT-99-4.815	6.8	6.4	5.2	6.9	6.9	4.4	4.8	4.3	5.3	5.7
* ICON (MB 414)	6.5	7.1	5.5	6.5	6.4	4.1	5.1	4.4	5.2	5.6
* FIESTA 3	6.1	5.9	5.6	6.7	6.3	4.8	5.9	4.4	5.2	5.6
ABT-99-4.339	7.0	7.2	5.7	6.1	6.5	4.4	4.7	4.0	5.2	5.6
* MAJESTY	6.6	6.8	5.6	6.3	6.3	4.4	5.3	4.6	4.9	5.6

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) GROWN AT NINE LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE A (HIGH MAINTENANCE/FAIRWAY)" **/
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	KY1	MD1	NE1	NY1	SD1	UT1	VA1	WA3	MEAN
* PACESETTER (6011)	6.9	6.6	5.3	5.7	6.8	4.8	5.0	4.4	5.2	5.6
* EXACTA	6.6	6.6	5.6	6.2	6.6	4.6	4.8	4.1	5.6	5.6
PICK PR QH-97	6.4	6.3	5.6	7.0	6.6	4.8	5.0	3.9	5.2	5.6
* ADMIRE (JR-151)	7.2	6.5	5.2	6.4	6.4	3.8	5.2	4.7	5.2	5.6
* WILMINGTON	6.9	6.6	5.8	6.0	6.6	4.7	4.5	4.2	5.0	5.6
* IQ (CIS-PR-75)	6.5	7.0	5.8	6.6	6.6	4.5	4.7	3.5	5.2	5.6
* CATHEDRAL II	6.8	5.7	5.2	6.6	6.7	4.6	5.2	4.7	4.8	5.6
ABT-99-4.115	6.4	6.6	5.6	6.3	6.5	4.9	5.0	4.1	5.0	5.6
PST-2M4	7.0	6.6	5.3	5.8	6.9	3.9	5.4	4.7	4.8	5.6
* PARADIGM (APR 1236)	6.9	7.0	5.1	6.3	6.4	4.3	5.1	4.3	4.8	5.6
* RACER II (PICK RC2)	6.8	7.1	5.5	6.3	6.6	4.3	4.7	3.6	5.3	5.6
* AFFIRMED	6.4	5.8	5.6	6.0	6.7	4.6	5.3	4.3	5.5	5.6
ABT-99-4.965	6.4	6.7	5.7	5.9	6.8	4.9	4.8	4.1	4.8	5.6
* PENNANT II	7.2	6.1	5.5	6.3	6.5	4.2	5.4	3.3	5.5	5.6
ABT-99-4.560	6.3	6.3	5.9	6.1	6.7	4.2	5.4	4.4	4.8	5.6
MDP	6.2	7.0	5.8	6.1	6.2	4.5	5.0	4.3	4.9	5.6
APR 1231	6.6	6.1	5.4	6.5	6.6	3.8	5.6	4.3	5.1	5.5
PST-2RT	6.5	6.5	5.3	6.0	6.5	4.3	5.4	4.6	4.8	5.5
PICK PRNGS	7.0	6.2	5.1	5.9	6.5	4.1	5.4	4.0	5.8	5.5
* PALMER III	7.0	6.0	5.4	6.7	6.6	4.5	5.2	3.4	5.0	5.5
* PASSPORT	6.6	6.3	5.1	6.4	6.8	4.2	5.2	4.3	5.0	5.5
* SUMMERSET (MB 413)	6.7	6.3	5.6	7.0	6.7	4.3	4.4	4.0	4.9	5.5
* PROWLER (APR 777)	6.4	6.6	5.4	5.6	6.6	3.5	5.3	5.3	5.0	5.5
PST-2JH	6.6	7.0	5.2	5.7	6.7	4.4	5.4	4.2	4.7	5.5
PICK EX2	6.1	6.3	4.8	6.2	7.0	4.0	5.9	4.7	4.7	5.5
* PLEASURE XL	6.4	6.3	5.6	6.5	6.7	4.2	5.1	3.8	5.0	5.5
* PEARL II (EPD)	6.4	6.9	5.7	5.9	6.4	4.2	5.0	3.9	5.2	5.5
* MONTEREY II (JR-187)	6.0	5.8	5.4	6.2	6.5	4.2	5.8	4.8	4.8	5.5
* BRIGHTSTAR II	6.9	5.8	5.6	5.7	6.6	4.3	5.0	4.6	5.0	5.5
* BARLENNIUM	6.6	6.0	5.9	5.9	6.4	4.1	5.5	3.9	5.3	5.5
* EXTREME (JR-317)	6.6	5.8	5.2	6.6	6.5	4.4	5.0	4.0	5.2	5.5
* HEADSTART	7.0	5.6	5.0	6.5	6.2	4.5	5.3	3.9	5.3	5.5
* CATALINA II (PST-CATS)	6.8	6.7	5.7	5.5	6.6	4.1	4.5	4.2	5.1	5.5
SRX 4120	6.9	6.9	4.9	5.0	6.7	4.0	5.4	4.5	5.1	5.5
APR 1235	6.2	6.9	4.9	5.9	6.7	4.0	5.2	4.5	4.9	5.5
* RENAISSANCE (APR 1233)	6.8	6.8	5.1	5.5	6.5	3.8	5.3	4.5	4.9	5.5
* PROMISE	6.6	6.7	5.2	6.8	6.5	4.3	4.6	3.6	4.9	5.5
PICK PR B-97	6.4	5.7	5.9	6.8	6.3	4.5	5.0	3.6	4.9	5.5
LPR 98-144	6.8	5.5	5.3	7.0	6.3	4.6	4.8	3.9	4.9	5.5
APR 1232	7.1	6.4	5.1	5.7	6.6	3.8	5.2	4.4	4.8	5.5
* RACER	7.1	6.3	5.5	5.6	6.4	4.0	5.1	4.7	4.5	5.5
LPR 98-143	7.0	6.2	4.9	6.4	6.4	4.4	4.6	4.4	4.8	5.4
MP107	6.3	6.0	5.6	6.1	6.5	4.5	5.1	3.7	5.0	5.4
* PR 1-94 (PICK PR 1-94)	6.4	5.9	5.5	6.6	6.3	4.4	5.1	4.0	4.7	5.4
JR-128	6.4	6.2	5.4	6.3	6.4	4.2	5.0	3.9	5.0	5.4
* SUPERSTAR (EP57)	6.9	6.7	5.4	5.4	6.4	4.2	4.8	3.9	5.0	5.4
* LINE DRIVE	6.7	6.4	5.2	5.7	6.7	4.0	5.0	4.0	5.2	5.4
* MANHATTAN 3	7.4	6.5	5.2	5.2	6.7	4.3	4.9	3.7	4.7	5.4
CAS-LP84	6.3	6.0	5.3	6.7	6.5	4.5	5.0	3.4	4.9	5.4
PST-2LA	6.4	6.0	5.7	5.5	6.5	4.7	5.3	3.3	5.1	5.4
ABT-99-4.600	6.4	6.7	4.8	5.9	6.8	4.4	4.7	4.3	4.6	5.4

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) GROWN AT NINE LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE A (HIGH MAINTENANCE/FAIRWAY)" **/
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	KY1	MD1	NE1	NY1	SD1	UT1	VA1	WA3	MEAN
* NEXUS	6.2	6.5	5.8	5.5	6.3	4.7	5.0	3.6	5.0	5.4
* AFFINITY	6.8	6.0	4.7	6.0	6.6	3.7	5.4	4.6	4.8	5.4
BY-100	6.8	6.3	4.9	5.6	6.6	4.0	5.7	4.1	4.5	5.4
APR 776	6.7	5.9	5.2	6.2	6.4	4.3	5.2	4.0	4.4	5.4
MEPY	6.1	6.1	5.6	6.2	6.5	4.5	4.9	3.3	4.9	5.3
WVPB-R-84	6.4	6.0	5.3	5.4	6.8	3.9	5.2	4.6	4.4	5.3
* SECRETARIAT	6.2	6.3	5.2	6.0	6.4	4.1	5.4	3.7	4.7	5.3
* CRUISER (ABT-99-4.709)	6.1	6.2	5.3	5.8	6.8	4.0	4.9	4.1	4.7	5.3
MP88	6.1	6.4	5.7	6.2	6.6	3.9	5.0	3.5	4.8	5.3
* CHARGER II	7.3	6.0	5.1	6.1	6.7	3.7	5.0	3.6	4.6	5.3
* PANTHER	7.0	5.5	5.3	6.3	6.5	4.4	5.2	2.7	4.9	5.3
* PROTYME (ABT-99-4.625)	6.7	6.5	5.2	5.3	6.9	4.0	4.3	4.5	4.6	5.3
PST-2CRR	6.4	5.8	5.2	6.4	6.9	4.3	4.3	3.5	5.0	5.3
MP103	6.4	6.1	5.2	6.2	6.6	4.4	4.6	3.2	4.7	5.3
* PHANTOM	6.4	6.0	4.7	5.4	6.8	3.9	5.0	3.7	5.4	5.3
DP 17-9391	6.7	5.5	5.3	4.8	6.7	4.0	5.6	4.0	4.3	5.2
LTP-ME	6.4	5.1	5.3	5.7	6.7	4.4	4.6	3.5	4.8	5.2
* ALLSPORT	6.3	5.2	5.2	5.9	6.5	4.0	4.9	4.0	4.3	5.1
EP53	6.2	6.3	5.2	5.4	6.4	3.9	4.6	3.6	4.7	5.1
* SKYHAWK	6.6	6.0	4.9	5.5	6.5	4.2	4.5	3.8	4.2	5.1
WVPB-R-82	6.7	5.0	4.4	5.4	6.8	3.7	5.4	4.3	4.4	5.1
* CATALINA	6.4	5.6	5.4	5.5	6.8	4.4	4.7	2.1	5.1	5.1
PREMIER	6.2	6.2	4.7	5.3	6.6	3.9	4.8	4.0	4.4	5.1
DP 17-9069	6.6	5.2	4.4	5.0	6.7	3.9	5.5	4.1	4.6	5.1
KOOS R-71	6.1	6.0	4.8	5.6	6.6	3.8	5.2	3.1	4.7	5.1
* EDGE	7.0	5.6	4.6	5.3	6.7	3.9	4.7	3.7	4.4	5.1
* PROSPORT (AG-P981)	6.1	5.3	5.1	5.9	6.5	4.0	4.7	3.3	4.5	5.0
APR 1234	6.4	5.9	4.7	5.2	6.7	3.2	4.8	3.3	3.9	4.9
DP LP-1	6.2	5.5	4.0	5.8	6.3	3.6	5.0	3.4	4.2	4.9
* BUCCANEER	6.2	5.3	4.2	4.6	6.4	3.7	5.5	3.7	4.1	4.8
* YATSUGREEN	6.1	4.9	4.6	4.7	6.4	3.4	4.4	4.0	4.1	4.7
DP 17-9496	5.8	5.1	3.4	3.3	6.5	3.0	3.2	3.8	3.7	4.2
* LINN	4.1	2.1	2.7	1.3	6.4	2.6	2.1	2.6	3.1	3.0
LSD VALUE	1.2	1.1	0.5	0.7	0.5	0.7	0.8	1.0	0.6	0.3
C.V. (%)	11.2	10.6	5.8	7.5	4.9	9.2	10.2	15.3	7.7	9.4

* COMMERCIALY AVAILABLE IN THE USA IN 2004.

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.

** SCHEDULE A - 1/2-3/4 INCH MOWING HEIGHT
 1/2-3/4 lb. N/1000 FT2/PER GROWING MONTH
 IRRIGATION TO PREVENT VISUAL DROUGHT STRESS

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 GROWN AT SEVEN LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD)" */
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA6	IL1	ME1	MI1	NJ1	NJ2	PA1	MEAN
MACH 1 (ROBERTS-627)	6.2	6.8	8.8	6.5	5.0	6.8	8.1	6.9
ALL STAR2 (CIS-PR-78)	5.5	6.8	8.5	6.3	6.0	6.6	7.9	6.8
SR 4220 (SRX 4801)	5.9	6.9	8.3	6.7	5.6	6.2	7.4	6.7
GRAND SLAM 2L96 (PST-2L96)	5.6	6.8	8.4	6.8	5.7	6.2	7.2	6.7
GATOR 3 (CIS-PR-85)	5.8	6.8	8.3	6.4	5.8	6.0	7.4	6.6
JET	6.0	6.6	8.3	6.7	5.3	6.0	7.6	6.6
PIZZAZZ	6.6	6.6	8.1	5.8	6.0	6.7	6.7	6.6
CITATION FORE (PST-2BR)	5.7	6.1	8.4	6.6	6.0	6.7	6.9	6.6
PENTIUM (NJ-6401)	6.1	6.6	8.6	6.4	5.8	5.8	7.1	6.6
PINNACLE II (BAR 9 B2)	5.9	6.1	8.5	6.9	5.5	6.1	7.2	6.6
SR 4420 (SRX 4820)	5.8	6.3	8.4	6.5	5.7	6.1	7.2	6.6
KOKOMO (CIS-PR-69)	6.2	6.9	8.3	6.4	5.0	6.2	6.8	6.6
AMAZING (B1)	6.3	6.4	8.2	6.3	5.1	6.4	7.3	6.6
APPLAUD (PENNINGTON-11301)	5.9	6.2	8.5	6.2	5.3	6.6	7.2	6.6
INSPIRE (R8000)	5.6	6.4	8.3	6.5	5.5	5.9	7.7	6.5
SR 4500	6.5	6.5	7.8	6.5	6.0	5.4	6.9	6.5
SUNKISSED (ABT-99-4.834)	6.0	6.4	8.6	6.6	5.3	5.8	6.9	6.5
CHARISMATIC (LTP 98-501)	5.3	6.3	8.6	6.5	5.2	6.3	7.1	6.5
EXACTA	6.3	6.8	8.2	6.0	5.9	5.1	6.9	6.5
ARRIVAL (CIS-PR-84)	5.7	6.4	8.6	6.4	5.0	5.8	7.2	6.4
ABT-99-4.560	5.4	6.7	8.1	6.5	5.3	5.9	7.2	6.4
MANHATTAN 4 (PST-2CRL)	6.3	6.1	8.1	6.6	4.9	5.8	7.1	6.4
BLAZER IV (PICK MDR)	5.9	6.6	8.4	6.2	4.7	5.6	7.1	6.4
NEXUS	5.9	5.9	8.3	6.4	5.5	5.5	7.0	6.4
DAZZLE (ABT-99-4.724)	6.2	6.0	7.9	6.2	5.1	5.8	7.3	6.4
DLF-LDD	5.7	6.6	8.4	6.6	4.9	5.5	6.9	6.4
TERRADYNE (A5C)	6.4	5.6	7.7	6.5	5.6	5.2	7.5	6.3
HAWKEYE (SRX 4RHT)	5.5	6.1	8.2	6.5	5.4	5.5	7.2	6.3
BRIGHTSTAR SLT (PST-2A6B)	5.9	6.4	8.1	6.5	5.4	5.2	6.7	6.3
QUEST II (ABT-99-4.721)	5.4	6.3	8.4	6.3	5.2	5.8	6.9	6.3
SEVILLE II	6.3	6.2	7.9	6.0	5.5	5.7	6.7	6.3
PACESETTER (6011)	5.8	6.0	7.8	6.7	5.2	5.5	7.1	6.3
ABT-99-4.115	5.9	6.3	8.3	6.1	4.9	5.8	6.8	6.3
AFFIRMED	5.9	6.9	8.0	6.3	5.2	4.8	7.0	6.3
ICON (MB 414)	5.8	6.1	7.9	6.5	5.2	5.2	7.2	6.3
FIESTA 3	5.9	6.3	8.1	6.4	5.2	5.2	6.6	6.2
CHURCHILL	5.7	6.2	8.2	6.2	5.1	5.2	7.1	6.2
PARAGON	5.8	6.3	7.8	6.0	4.7	5.6	7.3	6.2
BARLENNIUM	6.1	6.2	8.2	6.1	5.4	4.7	6.8	6.2
GALLERY (MB 412)	5.3	6.0	7.9	6.7	5.3	5.7	6.6	6.2
ELFKIN	6.1	6.0	7.7	6.5	5.3	4.7	7.2	6.2
PREMIER II	5.7	6.1	8.1	6.5	5.1	5.3	6.7	6.2
LTP-ME	5.6	5.9	7.9	6.2	5.4	5.4	6.9	6.2
PST-2LA	6.2	6.1	7.9	6.5	5.0	5.0	6.6	6.2
SECRETARIAT	6.1	6.2	7.6	6.6	4.9	4.9	7.0	6.2
CABO (CIS-PR-80)	5.9	6.2	8.2	6.2	4.5	5.4	6.8	6.2
SALINAS (PST-2SLX)	6.0	6.4	7.9	6.5	4.7	4.9	6.8	6.2
STELLAR (CIS-PR-72)	5.4	6.0	7.8	6.5	5.1	5.4	6.9	6.2
ABT-99-4.464	5.7	6.2	7.9	6.1	4.8	5.1	7.3	6.2

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) GROWN AT SEVEN LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD)" */
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA6	IL1	ME1	MI1	NJ1	NJ2	PA1	MEAN
CALYPSO II	6.2	6.2	7.9	6.4	4.5	5.2	6.6	6.1
ABT-99-4.339	5.9	6.3	7.9	6.2	5.0	4.8	6.7	6.1
MAJESTY	5.9	6.1	7.8	6.4	5.0	5.0	6.7	6.1
PICK PR QH-97	5.3	5.8	8.3	6.5	4.7	5.3	6.9	6.1
PICK PR B-97	5.7	6.4	7.9	5.9	4.9	5.4	6.7	6.1
PROMISE	5.6	6.2	7.7	6.3	4.6	5.8	6.7	6.1
RACER II (PICK RC2)	5.6	6.2	7.8	6.3	5.0	5.2	6.6	6.1
PST-2M4	6.0	6.4	7.9	6.4	4.3	4.7	7.1	6.1
PROTYME (ABT-99-4.625)	6.3	5.8	8.1	6.4	4.8	4.8	6.5	6.1
PST-2RT	5.9	5.8	7.9	6.2	5.1	5.1	6.6	6.1
ASCEND	5.6	6.0	7.8	6.2	5.2	5.0	6.8	6.1
CRUISER (ABT-99-4.709)	5.5	5.5	8.3	6.3	4.8	5.3	6.8	6.1
IQ (CIS-PR-75)	6.0	5.7	8.1	6.0	5.1	5.2	6.2	6.0
COURAGE (MB 410)	5.4	6.2	8.1	6.4	4.9	4.8	6.6	6.0
PALMER III	5.5	5.9	8.1	6.2	4.9	4.8	6.8	6.0
SUMMERSET (MB 413)	5.1	5.7	8.2	6.2	5.1	4.8	7.1	6.0
BRIGHTSTAR II	5.8	5.6	7.6	6.5	5.1	4.9	6.7	6.0
RADIANT	5.4	6.0	8.1	6.3	5.1	4.6	6.5	6.0
ADMIRE (JR-151)	5.5	6.2	7.8	6.5	4.8	4.7	6.6	6.0
SR 4350 (APR 1237)	5.9	6.2	7.3	6.6	4.7	4.6	6.7	6.0
PST-2JH	6.2	5.4	7.6	6.5	5.0	4.6	6.7	6.0
PR 1-94 (PICK PR 1-94)	5.8	5.9	8.2	6.3	4.5	4.8	6.4	6.0
DIVINE	5.6	6.0	7.7	6.3	5.1	4.5	6.7	6.0
APR 776	5.7	6.0	7.6	6.5	4.8	4.6	6.7	6.0
ABT-99-4.965	5.8	5.4	7.8	6.2	5.2	4.8	6.5	6.0
MP88	5.8	5.2	8.2	6.3	5.3	4.6	6.4	6.0
SPLENDID (MB 411)	5.2	6.2	8.4	6.2	4.8	4.3	6.6	5.9
MP107	5.3	5.9	7.8	6.3	4.9	5.3	6.1	5.9
LINE DRIVE	5.8	5.6	7.7	6.5	5.0	4.6	6.4	5.9
SRX 4120	5.8	6.0	7.4	6.6	5.0	4.2	6.4	5.9
LS 2100 (PST-2SBE)	5.7	5.9	7.6	6.4	4.7	4.8	6.2	5.9
ABT-99-4.815	5.6	6.2	8.1	6.3	4.5	4.2	6.4	5.9
PENNANT II	5.4	5.3	7.7	6.3	5.1	4.6	6.7	5.9
MONTEREY II (JR-187)	5.3	6.1	7.9	6.5	4.7	4.5	6.2	5.9
WILMINGTON	5.9	5.0	8.3	6.4	5.3	3.9	6.3	5.9
APR 1232	5.5	6.4	7.3	6.6	4.8	4.5	5.9	5.9
MANHATTAN 3	5.7	6.1	7.7	6.5	4.5	4.3	6.4	5.9
JR-128	5.6	5.7	7.3	6.3	4.9	4.6	6.6	5.9
PARADIGM (APR 1236)	5.6	5.5	7.7	6.3	5.0	4.7	6.2	5.9
EXTREME (JR-317)	5.5	5.8	7.7	6.5	4.7	4.4	6.2	5.8
CATALINA II (PST-CATS)	5.7	5.4	7.9	6.3	4.2	5.0	6.4	5.8
APR 1231	5.6	6.4	7.3	6.5	5.0	4.2	5.8	5.8
PLEASURE XL	5.6	5.9	7.7	6.5	4.2	4.6	6.4	5.8
CATHEDRAL II	5.8	5.4	7.8	6.4	4.2	4.5	6.4	5.8
MDP	5.9	5.5	8.1	6.1	4.5	4.6	5.9	5.8
MP103	5.5	5.9	8.0	6.4	4.5	3.9	6.3	5.8
CAS-LP84	5.7	5.5	7.7	6.2	4.4	4.9	6.1	5.8
PICK PRNGS	5.4	5.9	8.0	6.1	4.5	4.5	6.1	5.8
MEPY	5.4	5.6	8.0	6.2	4.3	4.8	6.1	5.8
CHARGER II	6.6	6.0	7.7	6.1	4.0	4.1	5.8	5.8

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) GROWN AT SEVEN LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD)" */
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA6	IL1	ME1	MI1	NJ1	NJ2	PA1	MEAN
PEARL II (EPD)	5.6	5.4	8.0	6.4	5.0	3.9	6.0	5.8
PANTHER	5.4	6.0	7.8	6.5	4.4	4.0	6.2	5.8
CATALINA	5.4	5.4	7.6	6.6	4.6	4.1	6.4	5.7
PST-2CRR	5.2	5.5	8.1	6.3	4.1	4.5	6.4	5.7
SKYHAWK	5.1	5.4	7.8	6.4	5.0	4.3	6.1	5.7
PROSPORT (AG-P981)	5.3	5.5	7.5	6.4	4.9	4.1	6.3	5.7
PROWLER (APR 777)	5.6	5.9	7.3	6.5	4.8	4.5	5.4	5.7
PICK EX2	6.1	6.1	7.2	6.2	4.2	4.1	5.9	5.7
APR 1235	5.8	5.6	7.2	6.3	5.0	4.2	5.7	5.7
SUPERSTAR (EP57)	5.6	5.5	7.8	6.2	5.0	3.8	5.8	5.7
HEADSTART	5.6	5.6	7.5	6.5	4.0	4.3	6.2	5.6
PHANTOM	5.1	5.7	7.7	6.4	4.8	4.1	5.6	5.6
EP53	5.4	5.0	7.7	6.0	4.5	4.4	6.3	5.6
RACER	5.4	5.4	7.6	6.3	4.2	4.3	6.2	5.6
RENAISSANCE (APR 1233)	5.9	5.9	6.9	6.4	4.6	4.5	5.2	5.6
ABT-99-4.600	5.8	5.6	7.3	6.4	4.1	3.9	6.1	5.6
PASSPORT	5.3	5.1	7.7	6.5	4.5	3.9	6.2	5.6
ALLSPORT	5.3	5.5	7.7	6.4	4.3	3.7	6.2	5.6
AFFINITY	5.7	6.2	6.9	6.2	4.0	4.0	5.6	5.5
PREMIER	5.4	4.9	7.4	6.5	4.1	4.3	6.2	5.5
WVPB-R-84	5.7	5.8	6.9	6.5	4.0	3.8	5.8	5.5
LPR 98-144	5.4	5.6	7.1	6.3	4.0	4.3	5.7	5.5
EDGE	5.8	5.5	7.1	6.5	4.0	3.7	5.7	5.5
BY-100	5.4	5.3	7.0	6.6	4.1	3.9	5.8	5.5
KOOS R-71	5.6	5.7	6.7	6.2	3.9	3.8	5.8	5.4
LPR 98-143	5.7	5.5	7.1	5.6	3.5	4.4	5.7	5.4
DP LP-1	5.2	5.6	6.6	6.5	4.1	3.3	4.9	5.2
APR 1234	5.9	5.1	6.3	6.2	3.7	3.8	5.1	5.2
WVPB-R-82	4.9	5.1	6.5	6.3	3.6	3.6	5.6	5.1
DP 17-9391	4.7	5.6	6.4	6.0	4.2	3.2	5.2	5.1
DP 17-9069	5.3	5.4	6.7	5.9	3.7	3.5	4.7	5.0
YATSUGREEN	4.8	5.3	6.1	6.5	3.8	2.8	5.4	5.0
BUCCANEER	4.9	5.5	6.4	5.4	3.8	3.4	5.3	5.0
DP 17-9496	4.3	5.0	5.9	6.4	2.7	2.4	4.5	4.5
LINN	3.8	3.0	5.2	3.9	1.3	1.2	1.8	2.9
LSD VALUE	0.8	0.8	0.6	0.5	0.8	0.8	0.8	0.3
C.V. (%)	8.6	8.3	4.6	5.3	10.4	10.2	7.4	7.6

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.

* SCHEDULE B - 1 - 2 INCH MOWING HEIGHT
 1/2-1 lb. N/1000 FT²/PER GROWING MONTH (HIGH RATE ONLY DURING ESTABLISHMENT)
 NO IRRIGATION, IRRIGATION ONLY DURING SEVERE STRESS OR TO PREVENT DORMANCY
 NO FUNGICIDE USE UNLESS SEVERE STAND LOSS IS POSSIBLE
 WEED AND INSECT CONTROL TO PREVENT STAND LOSS

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 GROWN AT SEVEN LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE C (HOME LAWN)" */
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL2	IN1	M01	QE1	WA1	WI1	MEAN
DLF-LDD	7.2	6.9	6.3	5.2	5.7	7.3	6.0	6.4
GATOR 3 (CIS-PR-85)	7.6	6.3	6.0	5.6	5.6	7.9	5.4	6.3
MACH 1 (ROBERTS-627)	7.2	6.9	6.0	5.0	5.6	7.7	5.6	6.3
ABT-99-4.115	7.4	6.8	5.9	5.5	5.8	6.8	5.8	6.3
INSPIRE (R8000)	7.3	6.3	6.4	5.3	5.7	7.2	5.6	6.3
SR 4220 (SRX 4801)	7.6	6.0	6.1	5.7	5.4	7.3	5.5	6.2
SR 4500	7.2	6.6	5.8	5.7	5.8	6.9	5.6	6.2
ABT-99-4.464	7.3	6.9	6.0	5.6	5.5	6.8	5.4	6.2
BRIGHTSTAR SLT (PST-2A6B)	7.6	6.0	5.9	5.7	5.5	7.3	5.5	6.2
CITATION FORE (PST-2BR)	7.2	6.4	5.8	5.1	5.8	7.2	6.0	6.2
PACESETTER (6011)	6.9	6.9	5.8	5.6	5.5	6.7	6.1	6.2
PST-2LA	7.6	6.3	5.9	5.5	5.6	6.8	5.8	6.2
PREMIER II	7.4	7.1	5.8	5.0	5.7	6.8	5.6	6.2
ABT-99-4.560	7.5	6.5	6.1	5.1	5.5	7.2	5.5	6.2
AMAZING (B1)	7.0	5.8	6.1	5.6	5.4	7.6	5.8	6.2
AFFIRMED	7.3	6.4	5.7	5.8	5.6	6.9	5.6	6.2
PIZZAZZ	7.5	6.6	6.0	5.0	5.4	7.5	5.3	6.2
ALL STAR2 (CIS-PR-78)	6.8	6.3	6.2	5.3	5.5	7.4	5.6	6.2
APPLAUD (PENNINGTON-11301)	6.5	6.6	6.0	5.1	5.6	7.4	6.0	6.1
CHARISMATIC (LTP 98-501)	7.4	6.3	6.2	4.9	5.7	7.1	5.4	6.1
RACER II (PICK RC2)	7.6	6.8	5.8	4.9	5.6	6.9	5.4	6.1
BLAZER IV (PICK MDR)	7.4	6.1	6.1	5.1	5.3	7.4	5.5	6.1
JET	6.9	7.0	5.8	4.7	5.8	7.0	5.8	6.1
GRAND SLAM 2L96 (PST-2L96)	7.4	6.4	6.0	5.3	5.2	7.1	5.6	6.1
SEVILLE II	7.4	6.0	6.2	5.4	5.1	7.2	5.5	6.1
PST-2RT	7.4	6.8	5.9	4.9	5.6	6.9	5.4	6.1
PENTIUM (NJ-6401)	7.0	6.6	6.0	4.9	5.5	7.1	5.6	6.1
APR 1231	7.2	7.0	5.5	5.3	5.9	6.3	5.5	6.1
PST-2JH	7.6	6.4	5.9	5.3	5.6	6.4	5.5	6.1
CHURCHILL	6.9	6.3	5.7	5.4	5.7	7.3	5.3	6.1
HAWKEYE (SRX 4RHT)	7.1	6.3	5.7	5.0	5.4	7.8	5.2	6.1
ARRIVAL (CIS-PR-84)	7.2	5.7	5.8	5.6	5.7	7.3	5.3	6.1
SR 4350 (APR 1237)	7.1	6.5	6.1	5.6	5.6	6.4	5.3	6.1
ABT-99-4.339	7.2	6.8	5.7	5.3	5.6	6.6	5.3	6.1
APR 1232	7.7	6.7	5.6	5.2	5.9	6.2	5.3	6.1
PARAGON	7.7	5.8	5.8	4.8	5.6	7.2	5.7	6.1
EXACTA	7.1	5.8	6.0	5.4	5.3	7.2	5.7	6.1
FIESTA 3	7.0	6.3	5.8	4.9	5.6	6.8	6.0	6.0
CALYPSO II	7.1	6.4	5.8	5.3	5.7	6.6	5.5	6.0
MANHATTAN 4 (PST-2CRL)	7.0	5.2	5.7	5.9	5.4	7.2	5.9	6.0
DIVINE	7.1	6.7	6.0	5.3	5.4	6.1	5.6	6.0
MONTEREY II (JR-187)	7.4	6.4	5.7	5.1	5.8	6.4	5.4	6.0
QUEST II (ABT-99-4.721)	7.2	5.4	5.6	5.9	5.5	7.1	5.7	6.0
LS 2100 (PST-2SBE)	7.1	6.1	5.9	5.4	5.4	7.3	5.1	6.0
PST-2M4	7.2	6.0	6.0	5.2	5.4	7.0	5.4	6.0
SR 4420 (SRX 4820)	7.1	6.3	5.7	4.8	5.5	6.9	5.8	6.0
COURAGE (MB 410)	7.6	6.3	5.7	5.2	5.3	7.2	4.9	6.0
BARLENNIUM	6.9	6.3	6.0	5.4	5.6	6.7	5.2	6.0
PICK PR QH-97	7.2	5.7	6.0	5.3	5.2	7.2	5.5	6.0

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) GROWN AT SEVEN LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE C (HOME LAWN)" */
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL2	IN1	M01	QE1	WA1	WI1	MEAN
RADIANT	7.4	6.1	5.8	4.9	5.3	7.3	5.2	6.0
KOKOMO (CIS-PR-69)	7.3	6.0	6.0	4.8	5.1	7.2	5.6	6.0
DAZZLE (ABT-99-4.724)	7.0	5.7	6.0	4.6	5.5	7.4	5.8	6.0
CATHEDRAL II	7.2	6.0	5.8	5.3	5.2	6.7	5.7	6.0
LTP-ME	6.9	5.5	5.8	5.7	5.2	7.5	5.3	6.0
LINE DRIVE	7.0	6.0	5.7	5.3	5.5	6.6	5.6	6.0
ASCEND	7.1	6.1	5.6	5.4	5.4	6.7	5.4	6.0
SALINAS (PST-2SLX)	7.0	5.4	5.6	5.4	5.7	7.2	5.3	6.0
LPR 98-144	6.9	6.3	5.3	4.9	5.8	6.9	5.5	6.0
SPLENDID (MB 411)	7.1	6.3	5.8	5.0	5.4	6.8	5.2	6.0
SUNKISSED (ABT-99-4.834)	7.0	5.2	6.2	5.0	5.7	7.3	5.3	6.0
BRIGHTSTAR II	7.0	5.4	5.6	5.0	5.7	7.4	5.5	5.9
JR-128	7.0	6.2	5.5	4.8	5.5	7.1	5.6	5.9
ABT-99-4.600	7.1	5.8	5.8	5.9	5.3	6.2	5.5	5.9
ABT-99-4.815	6.9	5.9	5.6	5.6	5.2	6.8	5.6	5.9
ICON (MB 414)	7.2	5.4	5.5	5.6	5.5	7.1	5.2	5.9
MANHATTAN 3	7.3	6.1	5.7	4.9	5.5	6.6	5.3	5.9
CATALINA	7.4	5.6	5.9	5.0	5.1	6.7	5.8	5.9
WILMINGTON	7.4	5.3	5.6	5.5	5.6	7.3	4.7	5.9
PINNACLE II (BAR 9 B2)	7.4	4.7	6.0	5.0	5.5	7.6	5.2	5.9
PICK EX2	7.2	6.8	5.6	4.8	5.3	6.1	5.5	5.9
PROWLER (APR 777)	6.6	7.4	5.6	5.3	5.3	6.1	5.1	5.9
ELFKIN	7.1	5.2	5.9	4.7	5.7	7.0	5.7	5.9
SRX 4120	6.9	6.5	5.5	5.2	5.4	6.2	5.4	5.9
GALLERY (MB 412)	7.2	5.3	5.8	5.2	5.5	7.3	4.9	5.9
ALLSPORT	7.3	5.6	5.4	5.0	5.5	6.8	5.5	5.9
IQ (CIS-PR-75)	7.2	5.1	5.5	4.9	5.3	7.6	5.5	5.9
PICK PR B-97	6.3	5.7	6.0	5.4	5.4	7.2	5.0	5.9
PST-2CRR	7.6	5.1	5.5	5.2	5.4	7.3	5.0	5.9
PROMISE	7.1	5.2	5.8	5.3	5.5	7.0	5.3	5.9
ADMIRE (JR-151)	7.1	5.8	5.8	5.3	5.1	6.4	5.6	5.9
RACER	7.1	6.5	5.6	4.7	5.4	6.5	5.2	5.9
TERRADYNE (A5C)	6.8	5.1	5.8	5.6	5.6	7.2	4.9	5.9
PICK PRNGS	6.7	5.9	6.0	5.2	5.6	6.4	5.2	5.8
APR 1235	7.3	6.0	5.4	5.5	5.2	6.9	4.6	5.8
MAJESTY	6.9	5.3	5.7	5.2	5.5	6.8	5.5	5.8
PLEASURE XL	7.1	6.6	5.7	5.1	5.1	6.3	5.1	5.8
PARADIGM (APR 1236)	7.4	5.5	5.7	5.4	5.4	6.6	4.8	5.8
CATALINA II (PST-CATS)	6.9	5.8	5.5	5.1	5.7	6.3	5.5	5.8
EXTREME (JR-317)	6.8	5.9	5.9	5.1	5.1	6.7	5.3	5.8
CABO (CIS-PR-80)	7.3	4.5	5.7	5.1	5.1	7.6	5.5	5.8
PR 1-94 (PICK PR 1-94)	6.9	5.9	5.8	4.5	5.2	7.4	5.0	5.8
CAS-LP84	7.4	4.9	5.7	5.3	5.1	7.0	5.3	5.8
SUPERSTAR (EP57)	6.7	5.6	5.6	5.5	5.0	7.1	5.1	5.8
CHARGER II	7.2	5.4	5.5	5.1	5.4	6.6	5.3	5.8
PREMIER	6.9	5.9	5.7	5.1	5.1	6.5	5.4	5.8
WVPB-R-84	6.6	6.1	5.3	5.0	5.4	6.6	5.6	5.8
AFFINITY	6.8	6.6	5.5	4.9	5.3	5.9	5.5	5.8
RENAISSANCE (APR 1233)	7.3	5.9	5.7	4.7	5.2	6.7	5.0	5.8
SECRETARIAT	6.9	6.2	5.6	4.5	5.6	6.1	5.5	5.8

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) GROWN AT SEVEN LOCATIONS IN THE U.S. AND CANADA 1/
 USING "SCHEDULE C (HOME LAWN)" */
 2003 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL2	IN1	M01	QE1	WA1	WI1	MEAN
STELLAR (CIS-PR-72)	7.1	4.7	5.8	4.6	5.8	7.0	5.4	5.8
PROTYME (ABT-99-4.625)	6.7	5.6	5.8	4.7	5.4	7.0	4.8	5.7
EP53	6.8	5.1	5.7	6.0	5.2	6.6	4.8	5.7
PALMER III	7.1	4.5	5.7	5.1	5.1	6.8	5.7	5.7
APR 776	6.6	5.5	5.6	5.1	5.6	6.4	5.1	5.7
SUMMERSET (MB 413)	7.3	4.2	5.6	5.1	5.4	7.2	5.0	5.7
MP88	7.2	3.7	5.8	5.5	5.1	7.2	5.3	5.7
PEARL II (EPD)	6.6	4.1	5.7	5.6	5.0	7.2	5.5	5.7
MEPY	6.9	4.8	5.6	4.8	5.2	6.9	5.3	5.7
APR 1234	7.0	6.5	5.0	5.0	5.0	6.2	4.8	5.7
PANTHER	6.9	4.4	5.7	5.1	5.0	6.5	5.9	5.6
KOOS R-71	6.8	5.7	5.3	4.8	5.3	6.3	5.3	5.6
NEXUS	6.8	5.3	5.6	5.1	5.1	7.1	4.5	5.6
YATSUGREEN	6.4	6.7	5.2	4.4	5.7	5.1	5.8	5.6
CRUISER (ABT-99-4.709)	7.1	5.4	5.6	5.1	5.2	6.8	4.1	5.6
PHANTOM	6.9	4.9	5.5	5.1	4.8	6.7	5.4	5.6
PROSPORT (AG-P981)	7.3	4.4	5.2	5.2	5.0	6.9	5.2	5.6
ABT-99-4.965	7.2	4.4	5.6	4.7	5.5	6.9	4.9	5.6
MDP	6.9	4.4	5.5	4.7	5.2	7.3	5.1	5.6
EDGE	6.7	5.4	5.3	5.2	5.4	5.4	5.8	5.6
MP107	7.4	4.2	5.8	4.7	4.9	6.8	5.2	5.6
HEADSTART	6.6	5.4	5.3	4.7	5.2	6.3	5.4	5.6
MP103	7.1	4.4	5.5	4.7	4.8	7.1	5.3	5.5
PENNANT II	7.3	4.3	5.7	4.9	4.8	6.5	5.3	5.5
DP 17-9069	6.6	5.1	5.3	5.4	5.5	5.1	5.6	5.5
BY-100	6.7	5.6	5.3	5.4	5.0	5.1	5.5	5.5
PASSPORT	6.9	4.7	5.3	4.2	5.1	6.4	5.8	5.5
DP LP-1	7.1	4.9	5.2	5.4	4.9	5.3	5.6	5.5
BUCCANEER	6.8	5.5	5.2	4.5	5.6	5.4	5.3	5.5
SKYHAWK	7.1	4.1	5.3	4.7	5.1	6.6	5.0	5.4
WVPB-R-82	6.6	5.0	5.0	4.3	5.1	6.1	5.7	5.4
LPR 98-143	6.6	4.1	4.5	4.9	5.2	6.6	5.4	5.3
DP 17-9391	5.8	5.1	5.1	4.8	5.2	5.2	5.8	5.3
DP 17-9496	5.4	4.3	4.5	4.8	5.6	3.9	4.8	4.8
LINN	5.6	1.8	3.3	3.4	5.2	3.1	3.5	3.7
LSD VALUE	0.8	1.2	0.4	0.9	0.6	0.6	0.7	0.3
C.V. (%)	6.7	13.5	4.9	10.7	7.4	5.8	7.9	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.

* SCHEDULE C - 1-1/2 - 2-1/2 INCH MOWING HEIGHT
 1/3-1/2 lb. N/1000 FT²/PER GROWING MONTH
 NO IRRIGATION, IRRIGATION ONLY DURING SEVERE STRESS OR TO PREVENT DORMANCY
 NO FUNGICIDE OR INSECTICIDE USE
 WEED CONTROL ON AS NEEDED BASIS

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT TWO LOCATIONS 1/
2003 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ3	NY2	MEAN	NAME	NJ3	NY2	MEAN
SR 4500	6.6	5.3	5.9	PLEASURE XL	4.8	5.4	5.1
CITATION FORE (PST-2BR)	6.2	5.5	5.8	WILMINGTON	4.8	5.4	5.1
LINE DRIVE	6.0	5.7	5.8	DP 17-9391	4.3	5.8	5.1
SR 4350 (APR 1237)	6.0	5.5	5.8	FIESTA 3	4.3	5.8	5.1
APR 1232	6.1	5.4	5.8	DP LP-1	4.8	5.3	5.1
APR 1235	6.0	5.5	5.7	MEPY	4.7	5.4	5.0
LS 2100 (PST-2SBE)	6.0	5.3	5.7	ELFKIN	4.8	5.3	5.0
COURAGE (MB 410)	5.4	5.8	5.6	GATOR 3 (CIS-PR-85)	4.6	5.5	5.0
PST-2LA	5.8	5.5	5.6	PROWLER (APR 777)	5.2	4.8	5.0
RADIANT	5.8	5.5	5.6	PENTIUM (NJ-6401)	4.7	5.4	5.0
SR 4220 (SRX 4801)	5.9	5.3	5.6	PREMIER	4.8	5.3	5.0
EP53	5.8	5.4	5.6	PEARL II (EPD)	4.8	5.2	5.0
CATALINA II (PST-CATS)	5.7	5.5	5.6	SUPERSTAR (EP57)	4.8	5.2	5.0
PARAGON	5.7	5.5	5.6	BLAZER IV (PICK MDR)	4.3	5.6	5.0
WVPB-R-84	5.2	5.9	5.5	CRUISER (ABT-99-4.709)	4.3	5.6	5.0
PST-2RT	5.4	5.6	5.5	RACER	4.3	5.6	5.0
JR-128	5.6	5.5	5.5	ABT-99-4.464	4.4	5.5	5.0
DIVINE	5.6	5.5	5.5	LTP-ME	4.7	5.3	5.0
EXACTA	5.4	5.5	5.5	HEADSTART	4.8	5.1	5.0
PACESETTER (6011)	5.4	5.5	5.5	APR 1234	4.4	5.5	5.0
MDP	5.4	5.5	5.5	ABT-99-4.115	4.2	5.7	4.9
PHANTOM	5.2	5.7	5.5	BARLENNIUM	4.7	5.2	4.9
ASCEND	5.6	5.3	5.4	LPR 98-143	4.3	5.5	4.9
MACH 1 (ROBERTS-627)	5.3	5.5	5.4	MANHATTAN 3	4.4	5.4	4.9
RACER II (PICK RC2)	5.4	5.4	5.4	ALL STAR2 (CIS-PR-78)	4.6	5.3	4.9
MAJESTY	5.3	5.5	5.4	PREMIER II	4.2	5.6	4.9
ABT-99-4.560	5.1	5.6	5.3	BRIGHTSTAR II	4.7	5.2	4.9
AFFIRMED	5.2	5.5	5.3	PST-2CRR	4.3	5.5	4.9
STELLAR (CIS-PR-72)	5.3	5.3	5.3	CAS-LP84	4.6	5.3	4.9
MANHATTAN 4 (PST-2CRL)	5.0	5.6	5.3	APR 1231	4.4	5.3	4.9
BUCCANEER	5.1	5.5	5.3	DAZZLE (ABT-99-4.724)	4.3	5.4	4.9
MP88	5.0	5.5	5.3	BRIGHTSTAR SLT (PST-2A6B)	4.4	5.3	4.9
PST-2JH	5.0	5.5	5.3	PST-2M4	4.3	5.4	4.9
PROSPORT (AG-P981)	4.9	5.5	5.2	MP107	4.4	5.3	4.8
INSPIRE (R8000)	4.9	5.5	5.2	CATHEDRAL II	4.2	5.5	4.8
IQ (CIS-PR-75)	5.2	5.2	5.2	SEVILLE II	4.2	5.5	4.8
PROTYME (ABT-99-4.625)	4.8	5.6	5.2	SR 4420 (SRX 4820)	4.3	5.3	4.8
SALINAS (PST-2SLX)	4.8	5.6	5.2	MP103	4.3	5.3	4.8
PICK PR QH-97	4.8	5.5	5.2	SUNKISSED (ABT-99-4.834)	4.1	5.5	4.8
ABT-99-4.965	5.1	5.2	5.2	GALLERY (MB 412)	4.2	5.4	4.8
ICON (MB 414)	4.8	5.5	5.1	GRAND SLAM 2L96 (PST-2L96)	4.3	5.3	4.8
SECRETARIAT	4.8	5.5	5.1	PIZZAZZ	4.1	5.5	4.8
PICK PR B-97	4.7	5.6	5.1	CABO (CIS-PR-80)	4.2	5.3	4.8
CHURCHILL	4.8	5.5	5.1	PASSPORT	4.3	5.2	4.8
MONTEREY II (JR-187)	4.9	5.3	5.1	PICK EX2	4.1	5.4	4.8
				PALMER III	4.1	5.4	4.7

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) GROWN UNDER TRAFFIC STRESS AT TWO LOCATIONS 1/
2003 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ3	NY2	MEAN
RENAISSANCE (APR 1233)	4.1	5.4	4.7
ABT-99-4.815	4.0	5.5	4.7
KOKOMO (CIS-PR-69)	3.9	5.5	4.7
AMAZING (B1)	4.0	5.4	4.7
DP 17-9069	4.0	5.4	4.7
CALYPSO II	3.9	5.5	4.7
PINNACLE II (BAR 9 B2)	3.9	5.5	4.7
PENNANT II	4.0	5.4	4.7
CHARGER II	3.8	5.5	4.7
JET	4.1	5.2	4.7
EXTREME (JR-317)	4.1	5.2	4.7
QUEST II (ABT-99-4.721)	3.6	5.8	4.7
HAWKEYE (SRX 4RHT)	4.0	5.3	4.6
ALLSPORT	3.4	5.8	4.6
SUMMERSET (MB 413)	3.8	5.4	4.6
CHARISMATIC (LTP 98-501)	3.9	5.3	4.6
ADMIRE (JR-151)	4.0	5.2	4.6
SRX 4120	4.0	5.2	4.6
ABT-99-4.339	3.9	5.3	4.6
PARADIGM (APR 1236)	3.7	5.5	4.6
AFFINITY	3.6	5.5	4.5
ARRIVAL (CIS-PR-84)	3.4	5.6	4.5
APPLAUD (PENNINGTON-11301)	3.9	5.2	4.5
YATSUGREEN	3.6	5.5	4.5
KOOS R-71	3.1	5.9	4.5
PR 1-94 (PICK PR 1-94)	4.1	4.9	4.5
SPLENDID (MB 411)	3.3	5.7	4.5
ABT-99-4.600	3.6	5.4	4.5
NEXUS	3.7	5.3	4.5
APR 776	3.7	5.3	4.5
SKYHAWK	3.6	5.3	4.4
DP 17-9496	3.6	5.3	4.4
CATALINA	3.2	5.5	4.3
PROMISE	3.4	5.2	4.3
WVPB-R-82	3.1	5.5	4.3
TERRADYNE (A5C)	3.4	5.0	4.2
BY-100	2.9	5.5	4.2
PICK PRNGS	2.9	5.5	4.2
DLF-LDD	2.9	5.3	4.1
EDGE	2.6	5.5	4.0
PANTHER	2.6	5.5	4.0
LPR 98-144	2.9	5.0	3.9
LINN	1.2	4.7	2.9
LSD VALUE	1.7	0.5	0.9
C.V. (%)	23.7	6.0	15.9

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.

TABLE 6.

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 2003 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IA1	IL2	IN1	MD1	MI1	NJ1	NJ3	NY1	NY2	QE1	VA1	WI1	MEAN
BUCCANEER	7.0	5.7	6.7	6.3	5.0	7.7	7.7	4.3	6.3	3.0	5.7	4.3	5.8
BY-100	7.0	6.0	7.0	7.0	5.0	5.7	5.7	6.7	7.0	2.0	6.3	4.0	5.8
YATSUGREEN	4.3	5.7	6.7	6.0	5.3	8.0	8.0	5.7	6.7	3.0	5.0	4.0	5.7
WVPB-R-82	6.3	5.0	5.7	6.0	5.7	7.0	7.0	7.0	6.3	2.3	5.7	4.0	5.7
PASSPORT	6.7	4.7	6.7	7.0	5.7	5.7	5.7	6.7	6.3	2.3	6.3	4.0	5.6
PANTHER	6.3	5.7	6.7	6.7	6.0	5.0	5.0	6.3	6.7	2.3	6.7	4.0	5.6
KOOS R-71	5.7	4.3	6.7	7.3	5.7	6.0	6.0	6.7	6.0	2.0	6.7	4.0	5.6
LPR 98-144	6.7	3.3	6.7	7.3	5.7	6.0	6.0	5.7	6.7	2.0	6.7	4.3	5.6
SEVILLE II	6.0	5.7	6.7	7.0	6.3	4.7	4.7	6.3	6.7	2.0	7.0	4.0	5.6
PENTIUM (NJ-6401)	6.0	5.0	6.7	7.7	7.0	4.7	4.7	6.0	6.7	2.7	6.7	3.3	5.6
DIVINE	5.7	3.7	6.7	7.3	6.3	6.0	6.0	6.3	6.3	2.3	6.0	4.0	5.6
PST-2RT	5.3	2.7	6.3	6.7	6.3	6.3	6.3	7.3	6.7	2.3	6.7	3.7	5.6
SRX 4120	6.7	3.7	6.3	6.3	5.7	6.7	6.7	6.3	6.3	2.7	5.7	3.7	5.6
WVPB-R-84	4.7	3.7	6.7	6.7	6.3	6.3	6.3	7.3	6.3	2.7	5.7	4.0	5.6
BARLENNIUM	7.0	6.0	6.3	7.3	5.3	5.0	5.0	5.3	7.0	2.3	6.0	3.7	5.5
CITATION FORE (PST-2BR)	5.7	4.0	7.0	7.0	6.0	5.0	5.0	6.7	6.7	2.7	7.0	3.7	5.5
DP 17-9391	4.3	7.0	6.3	6.7	5.3	5.7	5.7	6.7	6.3	3.0	5.3	4.0	5.5
ABT-99-4.115	6.0	5.7	6.7	6.7	6.0	4.3	4.3	6.7	6.7	2.3	6.7	4.0	5.5
AFFINITY	5.3	5.3	6.0	7.0	5.3	6.0	6.0	6.3	6.7	2.7	5.7	3.7	5.5
INSPIRE (R8000)	5.7	5.0	6.7	7.7	6.3	3.3	3.3	6.7	7.3	3.0	7.3	3.3	5.5
GATOR 3 (CIS-PR-85)	6.7	3.7	7.0	8.0	6.7	3.0	3.0	6.7	7.3	2.3	7.3	3.7	5.4
EDGE	5.3	5.3	6.3	6.7	5.7	6.0	6.0	6.3	6.3	2.0	5.0	4.0	5.4
PICK EX2	7.0	2.7	6.0	6.3	5.3	6.0	6.0	7.0	6.7	2.0	6.3	3.7	5.4
PROSPORT (AG-P981)	5.7	4.0	5.7	7.0	5.7	5.0	5.0	6.7	6.7	3.0	6.7	4.0	5.4
PST-2CRR	5.7	4.3	6.7	6.7	6.0	4.0	4.0	7.0	6.7	3.0	7.0	4.0	5.4
ALL STAR2 (CIS-PR-78)	5.7	5.0	6.7	7.7	6.0	4.0	4.0	6.3	6.3	2.0	7.3	3.7	5.4
STELLAR (CIS-PR-72)	5.0	6.0	5.7	7.0	5.7	4.7	4.7	6.3	6.3	2.3	7.0	4.0	5.4
AMAZING (B1)	5.0	6.3	6.7	7.3	6.7	2.7	2.7	7.3	6.7	2.7	7.0	3.7	5.4
DAZZLE (ABT-99-4.724)	5.0	5.0	6.7	7.0	6.3	3.0	3.0	7.7	7.0	3.0	7.0	4.0	5.4
DP LP-1	6.3	5.0	7.0	5.3	5.3	4.7	4.7	7.0	6.7	2.0	6.0	4.3	5.4
MP88	5.7	3.3	6.3	7.3	5.7	4.0	4.0	7.7	7.0	2.3	7.0	4.0	5.4
BRIGHTSTAR SLT (PST-2A6B)	6.3	2.3	6.3	7.0	6.0	4.7	4.7	6.0	7.0	2.7	7.3	3.7	5.3
CHARGER II	5.3	4.7	6.3	6.3	5.3	5.3	5.3	6.7	6.3	2.3	6.0	4.0	5.3
DP 17-9069	4.3	6.0	7.0	6.0	5.0	6.3	6.3	6.7	5.7	2.0	5.3	3.3	5.3
LTP-ME	5.3	4.7	6.7	7.3	5.7	3.3	3.3	7.3	6.7	2.3	7.3	4.0	5.3
PREMIER	5.3	4.7	6.7	6.3	5.7	4.7	4.7	6.3	6.3	2.7	6.7	4.0	5.3
PICK PRNGS	6.0	3.7	6.7	7.0	6.0	4.3	4.3	5.7	7.3	2.3	7.0	3.3	5.3
ABT-99-4.600	4.7	4.3	6.3	7.3	5.7	4.3	4.3	7.0	7.0	2.0	6.7	4.0	5.3
ADMIRE (JR-151)	6.0	4.0	6.3	6.7	5.7	5.7	5.7	5.7	6.3	2.0	6.0	3.7	5.3
AFFIRMED	6.3	4.7	6.3	6.3	5.7	3.7	3.7	7.0	6.7	2.3	7.0	4.0	5.3
PALMER III	6.0	5.3	6.3	7.0	5.7	3.7	3.7	5.7	7.0	2.3	7.0	4.0	5.3
SECRETARIAT	5.3	5.0	7.0	7.3	5.7	4.0	4.0	5.7	7.0	2.3	6.3	4.0	5.3
SUPERSTAR (EP57)	6.3	3.3	6.7	6.7	6.0	4.7	4.7	6.3	6.3	2.0	6.7	4.0	5.3
CALYPSO II	6.0	5.3	6.7	7.3	5.3	3.7	3.7	6.7	6.7	2.0	6.3	4.0	5.3
RACER	6.3	3.7	6.7	7.0	5.7	4.3	4.3	6.0	6.3	2.7	6.3	4.0	5.3
ABT-99-4.965	5.0	4.7	6.3	7.3	5.7	3.3	3.3	7.0	6.7	2.7	7.0	4.3	5.3

TABLE 6. (CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IA1	IL2	IN1	MD1	MI1	NJ1	NJ3	NY1	NY2	QE1	VA1	WI1	MEAN
HAWKEYE (SRX 4RHT)	5.0	5.3	6.3	7.3	6.0	3.3	3.3	6.7	6.3	2.0	7.7	4.0	5.3
MAJESTY	5.7	3.3	6.7	6.7	6.3	4.7	4.7	6.3	6.3	2.0	7.0	3.7	5.3
SUNKISSED (ABT-99-4.834)	5.7	5.3	6.7	7.0	6.0	3.0	3.0	6.7	6.7	2.7	6.7	4.0	5.3
LINE DRIVE	6.0	2.7	7.0	6.3	6.0	4.7	4.7	7.0	6.7	2.0	6.7	3.7	5.3
TERRADYNE (A5C)	4.7	5.0	6.7	7.0	5.7	3.7	3.7	6.3	6.3	2.3	7.3	4.3	5.3
APPLAUD (PENNINGTON-11301)	5.3	5.7	5.7	7.3	6.3	3.0	3.0	6.3	7.0	2.3	7.0	4.0	5.3
CHARISMATIC (LTP 98-501)	5.3	3.7	6.7	7.3	6.7	3.7	3.7	6.0	6.7	2.3	7.0	4.0	5.3
PARADIGM (APR 1236)	6.7	2.3	6.7	6.7	6.3	4.3	4.3	5.7	6.3	3.0	6.7	4.0	5.3
PIZZAZZ	5.3	4.0	7.0	8.0	6.0	3.7	3.7	6.0	6.3	2.7	7.0	3.3	5.3
WILMINGTON	5.7	3.3	6.3	7.7	5.3	3.7	3.7	7.0	6.7	3.0	7.3	3.3	5.3
ALLSPORT	6.0	3.7	6.7	6.3	6.0	3.7	3.7	7.0	6.7	2.3	7.0	4.0	5.3
KOKOMO (CIS-PR-69)	5.3	5.3	7.0	7.3	6.0	2.7	2.7	6.7	6.7	2.3	7.0	4.0	5.3
RACER II (PICK RC2)	7.0	5.0	6.3	7.3	6.3	2.7	2.7	7.0	6.3	2.0	6.7	3.7	5.3
MACH 1 (ROBERTS-627)	5.3	5.7	6.7	8.3	6.3	2.3	2.3	5.3	7.0	2.3	7.3	3.7	5.2
APR 1232	6.3	4.0	7.0	6.7	6.3	3.7	3.7	6.7	6.3	2.7	6.0	3.3	5.2
DLF-LDD	5.0	5.7	6.7	7.7	6.3	3.0	3.0	6.0	6.7	2.3	7.0	3.3	5.2
ELFKIN	6.3	4.0	6.3	7.0	6.3	3.7	3.7	6.0	6.7	2.3	6.3	4.0	5.2
QUEST II (ABT-99-4.721)	3.3	6.7	6.7	7.7	6.0	3.0	3.0	6.7	6.7	2.0	7.0	4.0	5.2
DP 17-9496	2.0	3.7	6.3	6.0	5.3	8.0	8.0	6.0	6.0	2.7	5.0	3.7	5.2
PARAGON	5.3	4.3	6.3	7.7	5.7	3.3	3.3	6.7	6.3	2.3	7.0	4.0	5.2
ASCEND	5.7	2.7	6.3	7.3	6.3	4.0	4.0	7.0	6.7	2.0	7.0	3.3	5.2
CATALINA	5.7	2.3	6.3	6.7	5.7	4.7	4.7	6.7	6.7	2.3	7.0	3.7	5.2
EXTREME (JR-317)	6.7	3.0	6.3	7.3	6.0	4.0	4.0	6.7	6.3	2.0	6.3	3.7	5.2
MONTEREY II (JR-187)	6.7	4.7	7.0	7.0	6.0	3.0	3.0	5.3	6.7	2.7	6.7	3.7	5.2
EXACTA	5.0	4.3	6.3	6.7	6.0	3.3	3.3	7.3	7.0	2.0	6.7	4.0	5.2
MANHATTAN 3	5.0	3.7	6.3	6.7	5.7	4.7	4.7	6.3	6.3	2.0	6.7	4.0	5.2
PST-2JH	6.0	3.3	5.3	7.0	5.7	4.7	4.7	6.3	6.7	2.3	6.3	3.7	5.2
ARRIVAL (CIS-PR-84)	5.7	4.3	6.7	7.3	6.3	3.0	3.0	6.7	7.0	2.3	6.7	3.0	5.2
MP107	5.3	4.0	6.7	7.3	5.3	3.3	3.3	6.7	6.7	2.3	7.0	4.0	5.2
ABT-99-4.815	5.7	3.3	6.7	6.3	6.0	3.7	3.7	7.3	6.3	2.3	7.0	3.3	5.1
ICON (MB 414)	7.0	5.0	6.3	6.7	5.0	2.3	2.3	6.0	7.3	3.0	7.0	3.7	5.1
PENNANT II	6.0	5.0	6.7	7.0	6.0	3.3	3.3	6.3	6.3	2.0	6.7	3.0	5.1
APR 776	5.3	3.7	6.7	6.3	6.0	4.0	4.0	6.0	6.7	2.7	6.7	3.7	5.1
CHURCHILL	5.3	4.3	6.3	7.3	6.0	3.0	3.0	7.0	6.3	2.7	6.7	3.7	5.1
PICK PR QH-97	6.3	4.7	6.7	7.0	6.0	2.7	2.7	5.7	6.7	2.3	7.0	4.0	5.1
JET	4.3	3.7	7.0	7.0	5.7	3.7	3.7	7.0	6.3	2.3	7.0	3.7	5.1
LPR 98-143	5.0	4.7	5.7	7.7	5.3	4.0	4.0	5.7	7.0	2.0	6.3	4.0	5.1
PREMIER II	5.7	4.7	7.0	7.0	6.0	3.0	3.0	5.7	7.0	2.3	6.0	4.0	5.1
PROTYME (ABT-99-4.625)	5.3	5.0	6.7	6.7	6.0	2.3	2.3	6.7	6.3	2.7	7.3	4.0	5.1
SR 4420 (SRX 4820)	5.3	4.7	6.0	7.0	6.3	3.7	3.7	5.0	6.3	2.3	6.7	4.3	5.1
JR-128	6.0	4.0	6.3	7.0	5.3	4.0	4.0	5.0	6.7	2.0	7.0	4.0	5.1
ABT-99-4.464	5.3	4.0	6.7	7.3	6.0	3.0	3.0	6.7	6.7	2.7	6.7	3.3	5.1
FIESTA 3	4.7	4.7	5.7	8.0	6.0	3.3	3.3	6.3	6.3	2.3	6.7	3.7	5.1
PROWLER (APR 777)	5.0	1.7	6.3	7.0	5.7	5.7	5.7	5.7	6.7	2.0	6.0	3.7	5.1
BRIGHTSTAR II	6.3	1.7	5.7	7.3	5.3	3.7	3.7	7.7	6.7	2.7	6.7	3.7	5.1
APR 1235	5.0	3.0	6.7	7.0	6.3	4.3	4.3	6.0	6.7	2.0	6.3	3.0	5.1
NEXUS	5.0	2.7	6.7	7.7	5.7	3.7	3.7	6.0	6.7	2.3	7.3	3.3	5.1

TABLE 6. (CONT'D)

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 2003 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IA1	IL2	IN1	MD1	MI1	NJ1	NJ3	NY1	NY2	QE1	VA1	WI1	MEAN
BLAZER IV (PICK MDR)	6.0	3.0	6.7	7.3	6.3	2.7	2.7	6.7	7.0	2.3	7.0	3.0	5.1
CATHEDRAL II	6.3	2.7	6.0	7.3	6.0	3.3	3.3	6.7	6.7	2.3	6.7	3.3	5.1
CRUISER (ABT-99-4.709)	5.3	4.0	6.7	5.7	6.0	3.0	3.0	7.0	7.3	2.0	7.0	3.3	5.0
MP103	6.0	5.0	6.7	6.7	5.7	3.0	3.0	6.3	6.0	2.0	6.7	3.3	5.0
PLEASURE XL	5.7	2.7	6.7	6.3	6.3	3.7	3.7	6.7	6.7	2.0	6.7	3.3	5.0
SR 4220 (SRX 4801)	5.3	5.3	6.3	6.7	6.0	3.0	3.0	5.7	6.7	2.3	7.0	3.0	5.0
COURAGE (MB 410)	6.7	3.0	6.7	6.3	6.0	3.0	3.0	6.3	6.7	2.0	6.3	4.0	5.0
SPLENDID (MB 411)	6.7	1.7	6.7	7.0	5.7	3.3	3.3	6.7	7.0	2.0	7.0	3.0	5.0
PACESETTER (6011)	6.0	3.0	5.0	6.3	6.0	3.3	3.3	7.0	6.7	2.7	6.7	4.0	5.0
SR 4500	6.3	4.0	6.3	7.0	5.7	3.0	3.0	5.7	6.3	2.7	6.0	4.0	5.0
LINN	4.0	5.7	6.3	4.7	4.0	7.0	7.0	5.3	5.7	2.0	5.0	3.0	5.0
PINNACLE II (BAR 9 B2)	5.3	4.7	7.0	7.0	6.3	2.0	2.0	6.0	7.3	2.0	6.7	3.3	5.0
PEARL II (EPD)	5.7	2.7	6.0	7.0	5.7	3.0	3.0	6.0	6.7	2.3	7.0	4.3	4.9
PHANTOM	6.7	2.7	6.3	6.3	5.7	3.0	3.0	6.7	6.0	2.0	7.0	4.0	4.9
PROMISE	5.3	3.3	6.3	7.7	5.7	3.0	3.0	6.0	6.3	2.0	6.7	4.0	4.9
PST-2M4	5.7	4.3	4.7	6.7	6.0	2.7	2.7	7.3	6.7	2.3	6.7	3.7	4.9
HEADSTART	6.3	4.3	6.3	7.7	5.3	3.0	3.0	5.7	6.3	2.0	5.7	3.7	4.9
MANHATTAN 4 (PST-2CRL)	5.0	3.0	5.3	7.3	6.0	2.7	2.7	7.7	7.0	2.0	7.0	3.7	4.9
GRAND SLAM 2L96 (PST-2L96)	5.0	2.3	6.3	6.7	6.0	3.7	3.7	6.0	6.5	2.3	7.0	3.3	4.9
ABT-99-4.560	4.3	3.3	6.3	7.0	6.7	2.7	2.7	6.3	7.0	2.0	7.0	3.3	4.9
PR 1-94 (PICK PR 1-94)	6.3	3.7	6.7	7.3	5.7	2.3	2.3	5.0	6.7	2.0	7.0	3.7	4.9
ABT-99-4.339	4.7	3.3	6.3	7.0	5.3	3.7	3.7	5.7	6.3	2.3	6.7	3.3	4.9
CAS-LP84	5.7	4.0	6.3	6.7	5.7	2.7	2.7	5.7	6.3	2.0	7.0	3.7	4.9
SUMMERSET (MB 413)	5.3	4.0	5.0	7.0	5.3	3.0	3.0	6.7	6.3	2.0	7.3	3.3	4.9
IQ (CIS-PR-75)	4.7	3.7	6.3	7.3	5.7	2.3	2.3	6.3	6.3	2.3	7.3	3.3	4.8
MEPY	6.0	3.7	6.7	7.3	5.3	2.3	2.3	6.0	6.0	2.0	6.7	3.7	4.8
CATALINA II (PST-CATS)	5.0	3.0	5.7	7.3	5.7	2.0	2.0	6.3	6.3	3.3	7.0	4.0	4.8
EP53	3.7	4.0	6.3	5.7	5.3	4.0	4.0	6.7	6.0	2.3	6.3	3.3	4.8
SR 4350 (APR 1237)	5.3	1.0	6.7	7.0	6.0	2.7	2.7	7.3	6.7	2.3	6.0	4.0	4.8
APR 1231	5.3	2.7	6.3	6.7	5.7	2.7	2.7	6.7	7.0	2.7	5.7	3.7	4.8
APR 1234	5.0	2.3	6.3	6.7	6.0	3.7	3.7	5.7	6.0	2.0	6.7	3.3	4.8
GALLERY (MB 412)	6.0	2.3	6.3	7.0	5.7	2.3	2.3	5.7	6.7	2.3	7.0	3.7	4.8
PICK PR B-97	5.3	2.0	6.3	7.7	6.0	2.3	2.3	6.0	6.0	2.3	7.3	3.7	4.8
RENAISSANCE (APR 1233)	5.3	2.3	6.3	6.7	5.7	4.0	4.0	6.0	6.0	2.0	6.0	3.0	4.8
RADIANT	5.7	3.7	6.7	6.7	5.0	2.0	2.0	6.3	6.3	2.0	7.3	3.3	4.8
CABO (CIS-PR-80)	6.0	2.7	6.7	7.0	6.3	1.3	1.3	5.7	6.3	2.3	8.0	3.3	4.8
SKYHAWK	4.7	3.3	6.0	6.0	5.7	3.3	3.3	6.0	6.7	2.0	6.3	3.7	4.8
SALINAS (PST-2SLX)	4.7	1.3	6.7	6.0	5.7	2.7	2.7	6.7	7.0	2.7	7.0	3.3	4.7
MDP	4.7	2.3	6.3	6.3	5.0	2.3	2.3	6.3	6.7	3.0	6.7	3.7	4.6
LS 2100 (PST-2SBE)	5.0	1.0	5.7	7.3	5.7	2.7	2.7	6.3	6.7	3.0	6.0	3.3	4.6
PST-2LA	5.3	1.7	4.0	7.0	6.0	2.7	2.7	6.7	6.7	2.3	7.0	3.0	4.6
LSD VALUE	1.7	2.1	1.2	1.0	0.9	2.1	2.1	2.1	0.9	0.9	0.9	0.8	0.4
C.V. (%)	18.7	32.4	11.7	9.1	9.6	32.9	32.9	20.0	8.8	23.6	8.5	12.8	17.7

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 7. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	IA1	KS1	MD1	NJ1	NJ2	NJ3	NY2	MEAN
CITATION FORE (PST-2BR)	8.7	8.0	6.7	7.3	8.7	7.3	6.0	7.5
GATOR 3 (CIS-PR-85)	8.3	8.0	6.7	7.3	8.3	7.3	6.3	7.5
PIZZAZZ	8.7	8.0	6.3	7.0	7.7	7.0	6.7	7.3
BARLENNIUM	9.0	8.0	6.3	6.7	8.3	6.7	6.0	7.3
BLAZER IV (PICK MDR)	8.7	8.0	6.3	7.0	7.7	7.0	6.3	7.3
BRIGHTSTAR SLT (PST-2A6B)	9.0	7.7	6.0	7.0	7.7	7.0	6.0	7.2
CABO (CIS-PR-80)	9.0	7.3	6.0	6.7	8.3	6.7	6.3	7.2
APR 1235	8.0	8.0	6.3	6.7	8.0	6.7	6.3	7.1
INSPIRE (R8000)	9.0	8.0	6.0	6.7	7.3	6.7	6.3	7.1
PINNACLE II (BAR 9 B2)	9.0	8.0	6.3	6.0	8.3	6.0	6.3	7.1
RADIANT	8.7	8.0	6.3	6.7	7.3	6.7	6.3	7.1
SALINAS (PST-2SLX)	9.0	8.0	5.7	7.0	7.3	7.0	6.0	7.1
SR 4220 (SRX 4801)	9.0	8.0	6.0	7.0	7.0	7.0	6.0	7.1
SUPERSTAR (EP57)	8.3	7.7	6.0	6.7	8.0	6.7	6.3	7.1
DIVINE	9.0	7.7	6.0	6.3	7.7	6.3	6.7	7.1
RACER II (PICK RC2)	8.7	8.0	6.0	7.0	7.0	7.0	6.0	7.1
AMAZING (B1)	9.0	7.3	6.7	6.0	8.0	6.0	6.3	7.0
ELFKIN	9.0	8.0	6.0	6.3	7.3	6.3	6.3	7.0
JR-128	9.0	7.7	6.0	7.0	6.0	7.0	6.7	7.0
KOKOMO (CIS-PR-69)	9.0	8.0	6.3	6.3	7.3	6.3	6.0	7.0
MP88	9.0	8.0	6.0	6.3	7.7	6.3	6.0	7.0
PENTIUM (NJ-6401)	9.0	8.0	6.0	6.0	8.0	6.0	6.3	7.0
SR 4420 (SRX 4820)	9.0	8.0	6.0	6.3	7.7	6.3	6.0	7.0
SR 4500	9.0	7.7	6.3	6.3	7.7	6.3	6.0	7.0
MACH 1 (ROBERTS-627)	9.0	8.0	6.3	6.0	8.0	6.0	6.0	7.0
SPLENDID (MB 411)	8.7	8.0	6.3	6.3	7.7	6.3	6.0	7.0
CHURCHILL	8.7	8.0	6.3	6.0	7.7	6.0	6.3	7.0
MEPY	7.7	8.0	6.0	6.7	7.7	6.7	6.3	7.0
MP107	8.7	8.0	6.0	6.3	7.7	6.3	6.0	7.0
PST-2M4	8.7	8.0	6.0	6.7	6.7	6.7	6.3	7.0
SKYHAWK	8.7	8.0	6.0	6.7	7.0	6.7	6.0	7.0
MANHATTAN 4 (PST-2CRL)	9.0	7.7	6.0	6.3	7.3	6.3	6.0	7.0
ABT-99-4.560	8.7	7.7	6.0	7.0	6.0	7.0	6.3	7.0
PROMISE	8.7	8.0	6.0	6.7	6.7	6.7	6.0	7.0
CHARISMATIC (LTP 98-501)	8.7	8.0	6.0	6.0	7.3	6.0	6.3	6.9
COURAGE (MB 410)	9.0	8.0	6.0	5.7	7.7	5.7	6.3	6.9
GRAND SLAM 2L96 (PST-2L96)	8.7	8.0	6.0	6.3	7.0	6.3	6.0	6.9
JET	9.0	8.0	6.7	5.3	8.0	5.3	6.0	6.9
MONTEREY II (JR-187)	9.0	8.0	6.0	5.7	7.0	5.7	7.0	6.9
PENNANT II	9.0	7.7	6.0	6.0	7.7	6.0	6.0	6.9
STELLAR (CIS-PR-72)	8.3	7.7	5.7	6.7	7.3	6.7	6.0	6.9
TERRADYNE (A5C)	8.7	8.0	6.0	6.3	7.0	6.3	6.0	6.9
EXTREME (JR-317)	9.0	8.0	6.0	5.7	7.3	5.7	6.7	6.9
SUMMERSET (MB 413)	8.7	8.0	6.0	5.7	8.3	5.7	6.0	6.9
APR 776	8.7	8.0	5.7	6.0	7.7	6.0	6.0	6.9
CALYPSO II	8.7	7.7	6.0	6.0	7.7	6.0	6.0	6.9

TABLE 7. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	IA1	KS1	MD1	NJ1	NJ2	NJ3	NY2	MEAN
CRUISER (ABT-99-4.709)	9.0	8.0	6.0	6.3	6.3	6.3	6.0	6.9
LTP-ME	8.7	7.7	6.0	6.0	7.7	6.0	6.0	6.9
NEXUS	8.7	7.7	6.0	6.7	6.3	6.7	6.0	6.9
PROSPORT (AG-P981)	9.0	7.7	6.0	6.3	6.7	6.3	6.0	6.9
PST-2LA	8.3	8.0	6.3	6.0	7.3	6.0	6.0	6.9
EXACTA	8.7	8.0	6.0	6.3	6.0	6.3	6.3	6.8
PROTYME (ABT-99-4.625)	8.3	7.3	6.0	7.5	5.0	7.5	6.0	6.8
EP53	8.7	7.7	6.0	6.0	7.3	6.0	6.0	6.8
ICON (MB 414)	8.7	7.3	6.0	6.0	7.7	6.0	6.0	6.8
PACESETTER (6011)	9.0	8.0	6.0	5.7	7.3	5.7	6.0	6.8
PARAGON	9.0	8.0	6.0	6.3	6.0	6.3	6.0	6.8
PICK PR QH-97	8.7	8.0	6.0	6.0	6.3	6.0	6.7	6.8
SR 4350 (APR 1237)	8.3	8.0	6.0	5.7	8.0	5.7	6.0	6.8
ABT-99-4.339	9.0	8.0	6.0	5.7	7.0	5.7	6.0	6.8
ALLSPORT	9.0	8.0	6.0	5.3	7.3	5.3	6.3	6.8
IQ (CIS-PR-75)	8.3	8.0	6.0	6.3	6.3	6.3	6.0	6.8
MDP	9.0	8.0	6.0	5.3	7.3	5.3	6.3	6.8
QUEST II (ABT-99-4.721)	9.0	8.0	6.0	5.3	7.3	5.3	6.3	6.8
SEVILLE II	9.0	8.0	6.0	6.0	6.3	6.0	6.0	6.8
APR 1232	8.7	8.0	6.0	5.0	8.7	5.0	6.0	6.8
PEARL II (EPD)	8.7	8.0	6.0	5.7	7.0	5.7	6.3	6.8
ABT-99-4.965	8.7	7.7	6.0	5.7	7.3	5.7	6.0	6.7
APPLAUD (PENNINGTON-11301)	9.0	8.0	6.3	4.7	8.0	4.7	6.3	6.7
ARRIVAL (CIS-PR-84)	9.0	7.7	6.0	5.3	7.7	5.3	6.0	6.7
FIESTA 3	8.3	7.0	6.0	6.0	7.7	6.0	6.0	6.7
HAWKEYE (SRX 4RHT)	8.3	7.7	6.0	6.0	6.7	6.0	6.3	6.7
MANHATTAN 3	9.0	8.0	6.0	6.0	6.0	6.0	6.0	6.7
PARADIGM (APR 1236)	8.0	8.0	6.0	6.3	6.3	6.3	6.0	6.7
WILMINGTON	8.7	8.0	6.0	6.0	6.0	6.0	6.3	6.7
ABT-99-4.815	8.7	8.0	6.0	5.3	7.0	5.3	6.3	6.7
PALMER III	9.0	7.7	6.0	6.0	6.0	6.0	6.0	6.7
ABT-99-4.464	9.0	8.0	6.3	5.3	7.0	5.3	5.7	6.7
ADMIRE (JR-151)	8.7	8.0	5.7	5.3	7.0	5.3	6.7	6.7
ALL STAR2 (CIS-PR-78)	9.0	7.7	6.3	5.3	7.0	5.3	6.0	6.7
APR 1231	8.7	8.0	6.0	5.7	6.3	5.7	6.3	6.7
PST-2RT	9.0	8.0	6.3	5.7	6.0	5.7	6.0	6.7
SUNKISSED (ABT-99-4.834)	8.7	7.7	6.0	5.7	7.0	5.7	6.0	6.7
BRIGHTSTAR II	9.0	8.0	5.7	5.7	6.3	5.7	6.0	6.6
PREMIER	8.7	7.3	5.7	5.3	8.0	5.3	6.0	6.6
PREMIER II	8.3	8.0	6.3	5.3	7.0	5.3	6.0	6.6
ABT-99-4.115	8.3	7.7	6.0	5.0	7.7	5.0	6.7	6.6
AFFIRMED	9.0	7.7	6.0	5.3	6.3	5.3	6.3	6.6
DAZZLE (ABT-99-4.724)	8.3	8.0	6.0	5.3	7.0	5.3	6.0	6.6
ASCEND	8.3	8.0	6.0	5.0	7.0	5.0	6.7	6.6
MAJESTY	8.7	8.0	6.7	4.7	7.3	4.7	6.0	6.6
RENAISSANCE (APR 1233)	8.7	8.0	6.0	5.7	6.0	5.7	6.0	6.6
DLF-LDD	8.3	7.7	6.3	5.0	7.0	5.0	6.3	6.5

TABLE 7. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	IA1	KS1	MD1	NJ1	NJ2	NJ3	NY2	MEAN
GALLERY (MB 412)	8.7	8.0	6.3	5.3	6.0	5.3	6.0	6.5
PICK PR B-97	8.7	7.7	6.0	5.3	6.3	5.3	6.0	6.5
RACER	8.3	8.0	6.0	5.3	6.3	5.3	6.0	6.5
ABT-99-4.600	8.7	8.0	6.0	5.7	5.3	5.7	6.0	6.5
LPR 98-143	8.0	8.0	6.0	5.3	6.3	5.3	6.0	6.4
LPR 98-144	8.7	8.0	6.0	5.3	6.0	5.3	5.7	6.4
MP103	9.0	8.0	6.0	5.0	6.0	5.0	6.0	6.4
PR 1-94 (PICK PR 1-94)	8.7	8.0	5.7	5.3	6.3	5.3	5.7	6.4
CAS-LP84	8.3	8.0	6.0	4.7	6.7	4.7	6.3	6.4
CATALINA	9.0	8.0	6.0	4.7	6.0	4.7	6.3	6.4
PANTHER	9.0	8.0	6.0	5.0	5.3	5.0	6.3	6.4
PICK PRNGS	9.0	7.7	6.0	4.3	7.0	4.3	6.3	6.4
PST-2JH	9.0	7.7	6.0	4.3	7.0	4.3	6.3	6.4
CATALINA II (PST-CATS)	8.7	8.0	6.0	4.7	6.7	4.7	6.0	6.4
PST-2CRR	9.0	8.0	6.0	4.3	7.0	4.3	6.0	6.4
SECRETARIAT	8.7	8.0	6.0	5.0	6.3	5.0	5.7	6.4
DP LP-1	9.0	7.0	5.7	5.3	6.0	5.3	6.0	6.3
PROWLER (APR 777)	8.0	8.0	6.0	5.3	5.7	5.3	6.0	6.3
CHARGER II	9.0	8.0	6.0	4.0	7.0	4.0	6.0	6.3
PASSPORT	9.0	7.7	6.0	4.7	6.0	4.7	6.0	6.3
PLEASURE XL	9.0	7.7	6.0	4.7	5.7	4.7	6.3	6.3
AFFINITY	8.3	8.0	6.0	5.0	5.3	5.0	6.0	6.2
PHANTOM	8.7	8.0	5.7	4.3	6.7	4.3	6.0	6.2
LINE DRIVE	8.7	8.0	6.0	4.0	6.3	4.0	6.3	6.2
EDGE	8.7	7.5	6.0	3.7	6.7	3.7	7.0	6.2
BY-100	9.0	8.0	6.0	3.7	6.7	3.7	6.0	6.1
LS 2100 (PST-2SBE)	9.0	8.0	6.0	5.0	4.0	5.0	6.0	6.1
SRX 4120	8.7	8.0	5.7	4.3	6.0	4.3	6.0	6.1
HEADSTART	9.0	8.0	5.7	4.0	6.0	4.0	6.0	6.1
DP 17-9069	8.3	7.7	6.0	4.7	5.3	4.7	6.0	6.1
WVPB-R-84	8.7	7.7	6.0	4.0	6.3	4.0	6.0	6.1
DP 17-9391	7.7	8.0	6.0	4.0	6.0	4.0	6.7	6.0
APR 1234	9.0	7.3	5.7	4.0	6.3	4.0	5.7	6.0
PICK EX2	8.7	8.0	6.0	4.0	5.3	4.0	6.0	6.0
CATHEDRAL II	9.0	7.7	6.0	3.3	6.3	3.3	6.0	6.0
KOOS R-71	8.7	7.7	5.7	3.7	4.7	3.7	6.0	5.7
BUCCANEER	8.3	7.3	5.3	3.3	6.0	3.3	6.0	5.7
WVPB-R-82	9.0	8.0	5.7	3.0	4.7	3.0	6.0	5.6
YATSUGREEN	9.0	7.3	5.3	2.0	5.7	2.0	6.0	5.3
DP 17-9496	7.7	6.7	4.7	1.7	5.3	1.7	6.0	4.8
LINN	7.7	5.0	3.3	1.0	1.0	1.0	5.7	3.5
LSD VALUE	0.7	0.6	0.5	1.9	2.1	1.9	0.6	0.5
C.V. (%)	5.3	4.9	5.4	21.8	19.3	21.8	6.1	13.0

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 8.

 SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 2003 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	MI1	NE1	QE1	MEAN	NAME	MI1	NE1	QE1	MEAN
ABT-99-4.115	7.0	9.0	5.7	7.2	TERRADYNE (A5C)	6.0	9.0	5.7	6.9
CITATION FORE (PST-2BR)	6.7	9.0	5.7	7.1	ASCEND	6.3	9.0	5.3	6.9
SR 4500	6.7	9.0	5.7	7.1	CRUISER (ABT-99-4.709)	6.3	9.0	5.3	6.9
JET	6.3	9.0	6.0	7.1	DAZZLE (ABT-99-4.724)	6.3	9.0	5.3	6.9
ABT-99-4.464	6.3	9.0	5.7	7.0	DIVINE	6.3	9.0	5.3	6.9
ABT-99-4.560	6.7	9.0	5.3	7.0	GRAND SLAM 2L96 (PST-2L96)	6.3	9.0	5.3	6.9
AMAZING (B1)	6.3	9.0	5.7	7.0	INSPIRE (R8000)	6.3	9.0	5.3	6.9
APPLAUD (PENNINGTON-11301)	6.3	9.0	5.7	7.0	MP103	6.3	9.0	5.3	6.9
APR 776	6.7	8.7	5.7	7.0	PASSPORT	6.3	9.0	5.3	6.9
HAWKEYE (SRX 4RHT)	6.0	9.0	6.0	7.0	PICK PR QH-97	6.3	9.0	5.3	6.9
LPR 98-144	6.3	9.0	5.7	7.0	QUEST II (ABT-99-4.721)	6.3	9.0	5.3	6.9
LS 2100 (PST-2SBE)	6.3	8.7	6.0	7.0	RACER II (PICK RC2)	6.3	9.0	5.3	6.9
MEPY	6.0	9.0	6.0	7.0	GALLERY (MB 412)	5.7	9.0	5.7	6.8
MONTEREY II (JR-187)	6.3	9.0	5.7	7.0	JR-128	5.7	9.0	5.7	6.8
PENTIUM (NJ-6401)	6.7	9.0	5.3	7.0	PROMISE	5.7	9.0	5.7	6.8
PICK PR B-97	6.3	9.0	5.7	7.0	SPLENDID (MB 411)	5.7	9.0	5.7	6.8
PREMIER II	6.3	9.0	5.7	7.0	ABT-99-4.600	6.0	9.0	5.3	6.8
PST-2JH	6.7	9.0	5.3	7.0	ABT-99-4.815	6.0	9.0	5.3	6.8
PST-2RT	6.3	9.0	5.7	7.0	ADMIRE (JR-151)	6.0	9.0	5.3	6.8
SECRETARIAT	6.3	9.0	5.7	7.0	APR 1235	6.0	9.0	5.3	6.8
SR 4350 (APR 1237)	6.7	9.0	5.3	7.0	BARLENNIUM	6.0	9.0	5.3	6.8
SR 4420 (SRX 4820)	6.7	9.0	5.3	7.0	BRIGHTSTAR II	6.0	9.0	5.3	6.8
SUNKISSED (ABT-99-4.834)	6.3	8.7	6.0	7.0	BRIGHTSTAR SLT (PST-2A6B)	6.3	8.7	5.3	6.8
WVPB-R-82	6.3	9.0	5.7	7.0	BY-100	6.0	9.0	5.3	6.8
ABT-99-4.965	6.0	9.0	5.7	6.9	CHURCHILL	6.0	9.0	5.3	6.8
ALLSPORT	6.0	9.0	5.7	6.9	COURAGE (MB 410)	6.0	9.0	5.3	6.8
APR 1231	6.0	9.0	5.7	6.9	EXTREME (JR-317)	6.0	8.7	5.7	6.8
APR 1232	6.0	9.0	5.7	6.9	GATOR 3 (CIS-PR-85)	6.0	9.0	5.3	6.8
ARRIVAL (CIS-PR-84)	6.0	9.0	5.7	6.9	HEADSTART	6.0	9.0	5.3	6.8
BLAZER IV (PICK MDR)	6.0	9.0	5.7	6.9	ICON (MB 414)	6.0	8.7	5.7	6.8
CATALINA II (PST-CATS)	6.0	9.0	5.7	6.9	IQ (CIS-PR-75)	5.3	9.0	6.0	6.8
CATHEDRAL II	6.0	9.0	5.7	6.9	KOKOMO (CIS-PR-69)	6.3	9.0	5.0	6.8
CHARGER II	6.0	9.0	5.7	6.9	LINE DRIVE	6.0	9.0	5.3	6.8
CHARISMATIC (LTP 98-501)	6.7	9.0	5.0	6.9	LTP-ME	6.0	9.0	5.3	6.8
DLF-LDD	6.0	9.0	5.7	6.9	MAJESTY	6.0	9.0	5.3	6.8
PACESETTER (6011)	6.0	9.0	5.7	6.9	MANHATTAN 3	6.0	8.7	5.7	6.8
PANTHER	6.0	9.0	5.7	6.9	PEARL II (EPD)	6.0	9.0	5.3	6.8
PARADIGM (APR 1236)	6.0	9.0	5.7	6.9	PICK PRNGS	6.3	9.0	5.0	6.8
PARAGON	6.0	9.0	5.7	6.9	PLEASURE XL	6.0	9.0	5.3	6.8
PICK EX2	6.0	9.0	5.7	6.9	PR 1-94 (PICK PR 1-94)	6.0	9.0	5.3	6.8
PINNACLE II (BAR 9 B2)	6.3	8.3	6.0	6.9	PROSPORT (AG-P981)	6.0	8.7	5.7	6.8
PST-2CRR	6.0	9.0	5.7	6.9	PROTYME (ABT-99-4.625)	6.0	9.0	5.3	6.8
PST-2LA	6.3	8.3	6.0	6.9	SALINAS (PST-2SLX)	6.0	9.0	5.3	6.8
SR 4220 (SRX 4801)	6.0	9.0	5.7	6.9	SEVILLE II	6.3	9.0	5.0	6.8
SRX 4120	6.0	9.0	5.7	6.9	WILMINGTON	6.0	9.0	5.3	6.8
SUMMERSET (MB 413)	6.0	9.0	5.7	6.9	WVPB-R-84	6.3	9.0	5.0	6.8
					AFFINITY	5.7	9.0	5.3	6.7

TABLE 8. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	MI1	NE1	QE1	MEAN
AFFIRMED	6.0	8.7	5.3	6.7
CABO (CIS-PR-80)	5.7	9.0	5.3	6.7
DP 17-9496	6.3	8.3	5.3	6.7
DP LP-1	6.0	8.7	5.3	6.7
EXACTA	6.0	8.3	5.7	6.7
MACH 1 (ROBERTS-627)	6.0	8.7	5.3	6.7
MANHATTAN 4 (PST-2CRL)	6.0	8.3	5.7	6.7
MDP	5.7	8.7	5.7	6.7
NEXUS	5.7	9.0	5.3	6.7
PALMER III	6.0	9.0	5.0	6.7
PENNANT II	6.0	9.0	5.0	6.7
PHANTOM	6.0	9.0	5.0	6.7
PROWLER (APR 777)	6.0	9.0	5.0	6.7
PST-2M4	6.0	8.7	5.3	6.7
STELLAR (CIS-PR-72)	6.3	8.7	5.0	6.7
ALL STAR2 (CIS-PR-78)	5.7	8.3	5.7	6.6
BUCCANEER	6.3	8.3	5.0	6.6
EDGE	6.3	8.3	5.0	6.6
KOOS R-71	6.0	9.0	4.7	6.6
LPR 98-143	5.7	9.0	5.0	6.6
MP88	5.7	8.3	5.7	6.6
RADIANT	5.7	9.0	5.0	6.6
SUPERSTAR (EP57)	5.7	8.3	5.7	6.6
YATSUGREEN	5.7	9.0	5.0	6.6
ABT-99-4.339	5.7	8.7	5.3	6.6
CALYPSO II	6.0	8.7	5.0	6.6
CAS-LP84	5.7	8.7	5.3	6.6
CATALINA	6.0	8.7	5.0	6.6
MP107	6.0	8.7	5.0	6.6
RACER	5.7	8.7	5.3	6.6
RENAISSANCE (APR 1233)	5.7	8.7	5.3	6.6
SKYHAWK	5.7	8.7	5.3	6.6
DP 17-9391	6.0	8.3	5.0	6.4
PREMIER	6.0	8.3	5.0	6.4
ELFKIN	6.0	8.0	5.3	6.4
EP53	5.3	8.7	5.3	6.4
FIESTA 3	5.7	8.3	5.3	6.4
APR 1234	6.0	8.0	5.0	6.3
DP 17-9069	6.0	8.0	5.0	6.3
PIZZAZZ	5.7	9.0	4.3	6.3
LINN	4.0	6.7	5.3	5.3
LSD VALUE	0.8	0.5	1.0	0.4
C.V. (%)	8.2	3.4	11.1	7.1

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 9.

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	MI1	NE1	QE1	MEAN	NAME	MI1	NE1	QE1	MEAN
ABT-99-4.560	6.7	9.0	6.0	7.2	HAWKEYE (SRX 4RHT)	6.0	9.0	6.0	7.0
CITATION FORE (PST-2BR)	6.7	9.0	6.0	7.2	HEADSTART	6.3	8.7	6.0	7.0
ABT-99-4.115	6.3	9.0	6.0	7.1	ICON (MB 414)	6.7	8.7	5.7	7.0
ABT-99-4.464	6.3	9.0	6.0	7.1	KOKOMO (CIS-PR-69)	6.0	9.0	6.0	7.0
APPLAUD (PENNINGTON-11301)	6.3	9.0	6.0	7.1	KOOS R-71	6.0	9.0	6.0	7.0
APR 1232	6.3	9.0	6.0	7.1	MEPY	6.0	9.0	6.0	7.0
CHARISMATIC (LTP 98-501)	6.3	9.0	6.0	7.1	PALMER III	6.0	9.0	6.0	7.0
GALLERY (MB 412)	6.3	9.0	6.0	7.1	PANTHER	6.0	9.0	6.0	7.0
GATOR 3 (CIS-PR-85)	6.3	9.0	6.0	7.1	PARADIGM (APR 1236)	6.3	8.7	6.0	7.0
INSPIRE (R8000)	6.3	9.0	6.0	7.1	PENNANT II	6.0	9.0	6.0	7.0
JET	6.3	9.0	6.0	7.1	PHANTOM	6.0	9.0	6.0	7.0
LPR 98-144	6.7	8.7	6.0	7.1	PINNACLE II (BAR 9 B2)	6.3	8.7	6.0	7.0
LS 2100 (PST-2SBE)	6.3	9.0	6.0	7.1	PLEASURE XL	6.0	9.0	6.0	7.0
LTP-ME	6.3	9.0	6.0	7.1	PR 1-94 (PICK PR 1-94)	6.0	9.0	6.0	7.0
MONTEREY II (JR-187)	6.3	9.0	6.0	7.1	PREMIER II	6.3	8.7	6.0	7.0
MP103	6.3	9.0	6.0	7.1	PROMISE	6.0	9.0	6.0	7.0
NEXUS	6.3	9.0	6.0	7.1	PROWLER (APR 777)	6.0	9.0	6.0	7.0
PACESETTER (6011)	6.3	9.0	6.0	7.1	QUEST II (ABT-99-4.721)	6.0	9.0	6.0	7.0
PASSPORT	6.3	9.0	6.0	7.1	RADIANT	6.0	9.0	6.0	7.0
PENTIUM (NJ-6401)	6.3	9.0	6.0	7.1	SALINAS (PST-2SLX)	6.0	9.0	6.0	7.0
PICK PR B-97	6.3	9.0	6.0	7.1	SECRETARIAT	6.0	9.0	6.0	7.0
PICK PR QH-97	6.3	9.0	6.0	7.1	SEVILLE II	6.0	9.0	6.0	7.0
PICK PRNGS	6.3	9.0	6.0	7.1	SPLENDID (MB 411)	6.0	9.0	6.0	7.0
PST-2JH	6.3	9.0	6.0	7.1	SUMMERSET (MB 413)	6.0	9.0	6.0	7.0
PST-2RT	6.3	9.0	6.0	7.1	ABT-99-4.965	5.7	9.0	6.0	6.9
SR 4220 (SRX 4801)	6.3	9.0	6.0	7.1	APR 776	6.3	8.7	5.7	6.9
SR 4350 (APR 1237)	6.3	9.0	6.0	7.1	CRUISER (ABT-99-4.709)	5.7	9.0	6.0	6.9
SR 4420 (SRX 4820)	6.3	9.0	6.0	7.1	IQ (CIS-PR-75)	5.7	9.0	6.0	6.9
SR 4500	6.3	9.0	6.0	7.1	LINE DRIVE	6.0	9.0	5.7	6.9
SRX 4120	6.3	9.0	6.0	7.1	MAJESTY	5.7	9.0	6.0	6.9
ABT-99-4.600	6.0	9.0	6.0	7.0	PEARL II (EPD)	5.7	9.0	6.0	6.9
ABT-99-4.815	6.0	9.0	6.0	7.0	PROSPORT (AG-P981)	6.3	8.7	5.7	6.9
ADMIRE (JR-151)	6.3	8.7	6.0	7.0	PST-2CRR	6.0	9.0	5.7	6.9
AFFINITY	6.0	9.0	6.0	7.0	PST-2LA	6.3	8.3	6.0	6.9
ALLSPORT	6.0	9.0	6.0	7.0	TERRADYNE (A5C)	5.7	9.0	6.0	6.9
AMAZING (B1)	6.3	8.7	6.0	7.0	APR 1235	6.0	8.7	6.0	6.9
APR 1231	6.0	9.0	6.0	7.0	ARRIVAL (CIS-PR-84)	6.0	8.7	6.0	6.9
BLAZER IV (PICK MDR)	6.0	9.0	6.0	7.0	BARLENNIUM	6.0	8.7	6.0	6.9
BRIGHTSTAR II	6.0	9.0	6.0	7.0	DLF-LDD	6.0	8.7	6.0	6.9
BY-100	6.0	9.0	6.0	7.0	EXACTA	6.0	8.7	6.0	6.9
CATALINA II (PST-CATS)	6.0	9.0	6.0	7.0	EXTREME (JR-317)	6.0	8.7	6.0	6.9
CATHEDRAL II	6.0	9.0	6.0	7.0	MP107	6.0	8.7	6.0	6.9
CHARGER II	6.0	9.0	6.0	7.0	PST-2M4	6.0	8.7	6.0	6.9
COURAGE (MB 410)	6.0	9.0	6.0	7.0	SUNKISSED (ABT-99-4.834)	6.0	8.7	6.0	6.9
DAZZLE (ABT-99-4.724)	6.0	9.0	6.0	7.0	ASCEND	6.0	8.3	6.0	6.8
DIVINE	6.0	9.0	6.0	7.0	CHURCHILL	6.0	8.3	6.0	6.8
GRAND SLAM 2L96 (PST-2L96)	6.3	9.0	5.7	7.0	DP 17-9069	6.0	8.3	6.0	6.8

TABLE 9. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	MI1	NE1	QE1	MEAN
DP 17-9496	6.3	8.3	5.7	6.8
ELFKIN	6.0	8.3	6.0	6.8
PROTYME (ABT-99-4.625)	5.7	9.0	5.7	6.8
RACER II (PICK RC2)	6.0	8.3	6.0	6.8
RENAISSANCE (APR 1233)	6.0	8.3	6.0	6.8
WVPB-R-82	6.0	8.3	6.0	6.8
WVPB-R-84	6.3	8.3	5.7	6.8
AFFIRMED	5.7	8.7	6.0	6.8
BRIGHTSTAR SLT (PST-2A6B)	5.7	8.7	6.0	6.8
CABO (CIS-PR-80)	5.7	8.7	6.0	6.8
CALYPSO II	5.7	8.7	6.0	6.8
DP 17-9391	6.0	8.7	5.7	6.8
DP LP-1	6.0	8.7	5.7	6.8
EP53	5.3	9.0	6.0	6.8
LPR 98-143	5.7	8.7	6.0	6.8
MDP	5.7	8.7	6.0	6.8
PARAGON	5.7	8.7	6.0	6.8
SKYHAWK	5.7	8.7	6.0	6.8
STELLAR (CIS-PR-72)	6.0	8.7	5.7	6.8
ABT-99-4.339	5.3	8.7	6.0	6.7
APR 1234	6.0	8.0	6.0	6.7
BUCCANEER	6.0	8.3	5.7	6.7
CAS-LP84	5.3	8.7	6.0	6.7
CATALINA	5.3	8.7	6.0	6.7
EDGE	6.0	8.0	6.0	6.7
FIESTA 3	5.7	8.7	5.7	6.7
JR-128	5.7	8.3	6.0	6.7
MACH 1 (ROBERTS-627)	6.3	7.7	6.0	6.7
MANHATTAN 4 (PST-2CRL)	6.0	8.3	5.7	6.7
MP88	5.7	8.3	6.0	6.7
PIZZAZZ	5.0	9.0	6.0	6.7
RACER	5.7	8.3	6.0	6.7
WILMINGTON	5.7	9.0	5.3	6.7
YATSUGREEN	5.3	8.7	6.0	6.7
ALL STAR2 (CIS-PR-78)	5.3	8.3	6.0	6.6
MANHATTAN 3	5.7	8.3	5.7	6.6
PICK EX2	5.3	8.7	5.7	6.6
PREMIER	6.0	8.0	5.7	6.6
SUPERSTAR (EP57)	5.7	8.3	5.7	6.6
LINN	4.7	5.7	5.7	5.3
LSD VALUE	0.9	0.7	0.4	0.4
C.V. (%)	9.5	5.0	3.8	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 10.

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	MI1	NE1	NJ1	NJ2	QE1	MEAN	NAME	MI1	NE1	NJ1	NJ2	QE1	MEAN
CITATION FORE (PST-2BR)	7.0	9.0	7.0	7.0	6.0	7.2	COURAGE (MB 410)	7.0	9.0	5.7	5.0	5.7	6.5
PINNACLE II (BAR 9 B2)	7.3	9.0	6.7	7.0	5.7	7.1	SECRETARIAT	7.0	9.0	6.0	4.7	5.7	6.5
ABT-99-4.560	7.0	9.0	7.3	5.7	6.0	7.0	BARLENNIUM	7.0	9.0	6.0	4.3	6.0	6.5
GATOR 3 (CIS-PR-85)	7.0	9.0	7.0	6.0	6.0	7.0	CHURCHILL	7.0	9.0	5.3	5.0	6.0	6.5
RACER II (PICK RC2)	7.0	9.0	7.7	5.3	6.0	7.0	DIVINE	7.0	9.0	6.3	4.3	5.7	6.5
CALYPSO II	7.0	8.3	6.7	6.7	6.0	6.9	MP107	6.7	8.7	7.0	4.0	6.0	6.5
SR 4420 (SRX 4820)	7.0	9.0	6.0	6.7	6.0	6.9	QUEST II (ABT-99-4.721)	7.0	9.0	5.3	5.3	5.7	6.5
STELLAR (CIS-PR-72)	7.3	9.0	6.0	6.7	5.7	6.9	CATALINA II (PST-CATS)	7.0	9.0	5.3	4.7	6.0	6.4
PIZZAZZ	7.0	9.0	6.3	6.0	6.0	6.9	EP53	6.7	8.7	6.7	4.0	6.0	6.4
SR 4220 (SRX 4801)	7.3	9.0	6.3	6.0	5.7	6.9	ICON (MB 414)	7.0	9.0	4.7	5.3	6.0	6.4
SR 4500	6.7	8.7	7.0	6.3	5.7	6.9	MANHATTAN 3	7.0	9.0	5.7	4.3	6.0	6.4
APR 1232	7.0	9.0	6.3	5.7	6.0	6.8	MONTEREY II (JR-187)	7.0	9.0	4.7	5.3	6.0	6.4
MANHATTAN 4 (PST-2CRL)	7.0	8.7	6.3	5.7	6.0	6.7	PICK PR QH-97	7.0	9.0	5.3	4.7	6.0	6.4
PACESETTER (6011)	7.0	9.0	6.7	5.0	6.0	6.7	PREMIER	6.7	9.0	6.3	4.0	6.0	6.4
AMAZING (B1)	6.7	9.0	6.0	6.3	5.7	6.7	PREMIER II	6.7	9.0	5.3	5.3	5.7	6.4
PST-2LA	7.0	9.0	6.3	5.3	6.0	6.7	PST-2RT	6.7	9.0	5.3	5.0	6.0	6.4
CHARISMATIC (LTP 98-501)	7.0	9.0	5.7	5.7	6.0	6.7	SALINAS (PST-2SLX)	7.0	9.0	6.0	4.0	6.0	6.4
MACH 1 (ROBERTS-627)	7.0	9.0	5.0	6.7	5.7	6.7	SR 4350 (APR 1237)	6.7	9.0	6.0	4.3	6.0	6.4
PST-2JH	7.0	9.0	5.7	5.7	6.0	6.7	ABT-99-4.965	7.0	9.0	5.0	4.7	6.0	6.3
DAZZLE (ABT-99-4.724)	7.0	9.0	5.3	6.0	6.0	6.7	APR 1231	7.0	9.0	5.0	4.7	6.0	6.3
KOKOMO (CIS-PR-69)	7.0	9.0	5.3	6.0	6.0	6.7	APR 1234	6.7	9.0	6.3	3.7	6.0	6.3
APPLAUD (PENNINGTON-11301)	7.0	9.0	5.7	5.7	5.7	6.6	APR 776	6.7	9.0	6.3	4.0	5.7	6.3
APR 1235	7.0	9.0	6.0	5.0	6.0	6.6	BRIGHTSTAR II	7.0	9.0	5.3	4.7	5.7	6.3
BRIGHTSTAR SLT (PST-2A6B)	7.0	8.7	6.0	5.3	6.0	6.6	GALLERY (MB 412)	7.0	9.0	5.0	4.7	6.0	6.3
ELFKIN	7.0	8.3	6.3	5.3	6.0	6.6	LINE DRIVE	7.0	9.0	5.7	4.3	5.7	6.3
EXACTA	6.3	9.0	6.7	5.0	6.0	6.6	MP88	7.0	8.3	5.7	4.7	6.0	6.3
FIESTA 3	7.0	8.0	6.0	6.0	6.0	6.6	PROTYME (ABT-99-4.625)	7.0	9.0	6.0	4.0	5.7	6.3
INSPIRE (R8000)	7.0	9.0	5.3	5.7	6.0	6.6	PROWLER (APR 777)	6.7	9.0	6.3	3.7	6.0	6.3
IQ (CIS-PR-75)	6.3	9.0	6.7	5.0	6.0	6.6	SPLENDID (MB 411)	6.7	9.0	5.7	4.3	6.0	6.3
PARAGON	7.0	9.0	7.3	3.7	6.0	6.6	SUNKISSED (ABT-99-4.834)	7.0	9.0	5.7	4.0	6.0	6.3
PICK EX2	6.7	9.0	6.0	5.3	6.0	6.6	TERRADYNE (A5C)	6.7	9.0	5.0	4.7	6.3	6.3
PROMISE	7.0	9.0	6.3	4.7	6.0	6.6	WVPB-R-84	7.0	9.0	5.7	4.3	5.7	6.3
RADIANT	7.0	9.0	6.3	4.7	6.0	6.6	AFFIRMED	7.0	9.0	5.0	4.7	5.7	6.3
SRX 4120	7.0	9.0	5.3	5.7	6.0	6.6	MEPY	6.7	9.0	6.0	3.7	6.0	6.3
ALL STAR2 (CIS-PR-78)	6.7	9.0	5.7	5.3	6.0	6.5	PICK PR B-97	6.7	9.0	4.7	5.0	6.0	6.3
JET	7.0	9.0	5.0	5.7	6.0	6.5	WILMINGTON	6.7	9.0	6.3	3.7	5.7	6.3
NEXUS	6.7	9.0	5.7	5.3	6.0	6.5	LS 2100 (PST-2SBE)	7.0	9.0	5.3	4.0	6.0	6.3
RENAISSANCE (APR 1233)	6.7	9.0	6.3	4.7	6.0	6.5	MDP	7.0	8.7	4.7	5.0	6.0	6.3
BLAZER IV (PICK MDR)	7.0	9.0	5.3	5.7	5.7	6.5	PALMER III	7.0	9.0	5.3	4.0	6.0	6.3
CABO (CIS-PR-80)	7.0	9.0	5.7	5.3	5.7	6.5	PEARL II (EPD)	6.7	9.0	6.3	3.3	6.0	6.3
CRUISER (ABT-99-4.709)	6.7	9.0	6.0	5.3	5.7	6.5	CHARGER II	6.7	9.0	4.7	4.7	6.0	6.2
GRAND SLAM 2L96 (PST-2L96)	7.0	8.7	5.7	5.7	5.7	6.5	JR-128	6.7	9.0	5.7	3.7	6.0	6.2
MAJESTY	7.0	9.0	5.3	5.7	5.7	6.5	CATHEDRAL II	7.0	9.0	5.0	4.0	6.0	6.2
PENTIUM (NJ-6401)	7.0	9.0	5.3	5.7	5.7	6.5	DP LP-1	7.0	8.7	5.7	4.0	5.7	6.2
SEVILLE II	7.0	9.0	6.3	4.3	6.0	6.5	LTP-ME	7.0	9.0	4.7	4.3	6.0	6.2
ASCEND	7.0	9.0	5.7	4.7	6.0	6.5	PENNANT II	6.7	9.0	6.3	3.0	6.0	6.2
							PLEASURE XL	7.0	9.0	4.0	5.0	6.0	6.2

TABLE 10. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	MI1	NE1	NJ1	NJ2	QE1	MEAN
PST-2CRR	6.3	9.0	5.3	4.7	5.7	6.2
HAWKEYE (SRX 4RHT)	6.7	8.7	4.3	5.0	6.3	6.2
PR 1-94 (PICK PR 1-94)	7.0	8.7	5.0	4.3	6.0	6.2
ABT-99-4.115	6.3	9.0	4.0	5.7	5.7	6.1
ABT-99-4.464	6.7	9.0	5.0	4.0	6.0	6.1
AFFINITY	7.0	9.0	5.0	4.0	5.7	6.1
ARRIVAL (CIS-PR-84)	7.0	9.0	3.7	5.0	6.0	6.1
EXTREME (JR-317)	7.0	9.0	4.7	4.0	6.0	6.1
PARADIGM (APR 1236)	6.7	9.0	5.0	3.7	6.3	6.1
PASSPORT	6.7	9.0	5.7	3.3	6.0	6.1
ADMIRE (JR-151)	7.0	9.0	4.3	4.3	6.0	6.1
CAS-LP84	7.0	8.7	5.0	4.0	6.0	6.1
PST-2M4	6.7	8.7	5.3	4.0	6.0	6.1
SKYHAWK	6.7	8.7	5.7	3.7	5.7	6.1
BY-100	6.7	9.0	5.0	4.3	5.3	6.1
DP 17-9391	7.0	8.7	4.3	4.3	6.0	6.1
LPR 98-143	6.7	9.0	4.3	4.3	6.0	6.1
PROSPORT (AG-P981)	7.0	8.7	5.3	3.3	6.0	6.1
RACER	7.0	8.0	4.3	5.0	6.0	6.1
ABT-99-4.339	6.7	9.0	4.7	3.7	6.0	6.0
MP103	6.7	9.0	5.0	3.7	5.7	6.0
ABT-99-4.600	6.7	9.0	5.3	3.3	5.7	6.0
DLF-LDD	7.0	9.0	4.0	4.3	5.7	6.0
KOOS R-71	7.0	9.0	4.3	3.7	6.0	6.0
PHANTOM	7.0	9.0	4.7	3.3	6.0	6.0
SUPERSTAR (EP57)	7.0	8.3	5.7	3.0	6.0	6.0
SUMMERSET (MB 413)	6.3	9.0	5.3	3.3	6.0	6.0
ABT-99-4.815	6.7	9.0	4.7	3.3	6.0	5.9
CATALINA	7.0	9.0	4.3	3.7	5.7	5.9
PICK PRNGS	7.0	9.0	3.7	4.3	5.7	5.9
DP 17-9069	6.7	8.0	4.3	4.3	6.3	5.9
EDGE	6.7	9.0	3.7	4.0	6.0	5.9
LPR 98-144	7.0	9.0	3.7	3.7	6.0	5.9
ALLSPORT	7.0	9.0	4.0	3.3	6.0	5.9
HEADSTART	7.0	8.3	4.7	3.3	6.0	5.9
BUCCANEER	6.7	8.0	5.0	3.7	5.7	5.8
WVPB-R-82	6.3	9.0	4.0	3.7	6.0	5.8
YATSUGREEN	6.3	9.0	3.3	3.3	6.0	5.6
DP 17-9496	6.3	8.3	4.0	3.0	5.7	5.5
PANTHER	6.7	8.7	3.7	2.3	6.0	5.5
LINN	5.7	5.0	2.3	1.0	5.7	3.9
LSD VALUE	0.6	0.5	1.7	1.7	0.5	0.5
C.V. (%)	5.4	3.3	19.2	22.7	5.5	11.2

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 11. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/								
NAME	SD1	WI1	MEAN	NAME	SD1	WI1	MEAN	
ABT-99-4.965	60.0	97.0	78.5	PROWLER (APR 777)	43.3	95.7	69.5	
STELLAR (CIS-PR-72)	60.0	96.0	78.0	ELFKIN	41.7	97.0	69.3	
PREMIER	55.0	97.7	76.3	BUCCANEER	41.7	96.7	69.2	
TERRADYNE (A5C)	53.3	95.0	74.2	KOOS R-71	41.0	97.3	69.2	
PHANTOM	50.0	98.0	74.0	MP107	45.0	93.3	69.2	
PST-2CRR	48.3	98.7	73.5	PR 1-94 (PICK PR 1-94)	40.0	98.3	69.2	
BY-100	50.0	96.7	73.3	MAJESTY	43.3	94.7	69.0	
CAS-LP84	50.0	96.7	73.3	PLEASURE XL	43.3	94.7	69.0	
SUPERSTAR (EP57)	48.3	98.3	73.3	IQ (CIS-PR-75)	40.0	97.7	68.8	
EXTREME (JR-317)	50.0	96.3	73.2	PASSPORT	40.0	97.7	68.8	
ADMIRE (JR-151)	48.3	97.0	72.7	RADIANT	46.7	90.7	68.7	
PICK EX2	53.3	91.7	72.5	BLAZER IV (PICK MDR)	45.0	92.3	68.7	
ABT-99-4.815	48.3	96.0	72.2	SUNKISSED (ABT-99-4.834)	45.0	91.7	68.3	
COURAGE (MB 410)	48.3	96.0	72.2	CATALINA	41.7	94.7	68.2	
PARADIGM (APR 1236)	46.7	97.7	72.2	EXACTA	43.3	93.0	68.2	
PICK PR QH-97	48.3	96.0	72.2	EDGE	40.0	96.3	68.2	
CRUISER (ABT-99-4.709)	46.7	97.3	72.0	MDP	40.0	96.3	68.2	
WVPB-R-82	48.3	95.7	72.0	QUEST II (ABT-99-4.721)	45.0	91.3	68.2	
APR 776	48.3	95.3	71.8	ASCEND	40.0	96.0	68.0	
BARLENNIUM	48.3	95.3	71.8	PARAGON	41.7	94.3	68.0	
DP 17-9069	48.3	95.3	71.8	SECRETARIAT	40.0	96.0	68.0	
WVPB-R-84	46.7	96.3	71.5	ABT-99-4.560	41.7	94.0	67.8	
SRX 4120	46.7	95.7	71.2	PALMER III	41.7	93.7	67.7	
LPR 98-144	45.0	97.3	71.2	SUMMERSET (MB 413)	43.3	92.0	67.7	
CHARGER II	46.7	95.3	71.0	JET	41.7	93.3	67.5	
ABT-99-4.600	46.7	95.0	70.8	MANHATTAN 4 (PST-2CRL)	40.0	95.0	67.5	
KOKOMO (CIS-PR-69)	46.7	94.7	70.7	PACESETTER (6011)	41.7	93.3	67.5	
SR 4350 (APR 1237)	46.7	94.7	70.7	SPLENDID (MB 411)	43.3	91.7	67.5	
DIVINE	45.0	96.3	70.7	PST-2M4	40.0	94.7	67.3	
JR-128	45.0	96.3	70.7	PICK PR B-97	36.7	98.0	67.3	
RACER II (PICK RC2)	45.0	96.0	70.5	HAWKEYE (SRX 4RHT)	38.3	96.0	67.2	
YATSUGREEN	45.0	95.7	70.3	INSPIRE (R8000)	40.0	94.0	67.0	
LTP-ME	43.3	97.3	70.3	PENNANT II	38.3	95.3	66.8	
PST-2RT	43.3	97.3	70.3	DP 17-9496	38.3	95.0	66.7	
ABT-99-4.115	48.3	91.7	70.0	ABT-99-4.464	38.3	94.7	66.5	
ALLSPORT	46.7	93.3	70.0	APR 1234	36.7	96.3	66.5	
EP53	43.3	96.7	70.0	GRAND SLAM 2L96 (PST-2L96)	40.0	92.7	66.3	
SR 4420 (SRX 4820)	43.3	96.7	70.0	AFFINITY	38.3	94.3	66.3	
PROMISE	45.0	94.7	69.8	APPLAUD (PENNINGTON-11301)	40.0	92.3	66.2	
PST-2JH	45.0	94.7	69.8	LINE DRIVE	36.7	95.3	66.0	
SR 4500	45.0	94.7	69.8	PICK PRNGS	36.7	95.0	65.8	
NEXUS	46.7	93.0	69.8	BRIGHTSTAR SLT (PST-2A6B)	38.3	93.0	65.7	
MANHATTAN 3	46.7	92.7	69.7	APR 1231	40.0	91.0	65.5	
PANTHER	43.3	96.0	69.7	BRIGHTSTAR II	35.0	96.0	65.5	
PEARL II (EPD)	43.3	96.0	69.7	SKYHAWK	36.7	94.3	65.5	
PROTYME (ABT-99-4.625)	41.7	97.7	69.7	DP LP-1	33.3	97.0	65.2	
MP103	45.0	94.0	69.5	MEPY	35.0	95.3	65.2	

TABLE 11. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	SD1	WI1	MEAN
DLF-LDD	36.7	93.3	65.0
GALLERY (MB 412)	36.7	93.3	65.0
MACH 1 (ROBERTS-627)	36.7	93.3	65.0
AFFIRMED	31.7	97.3	64.5
PIZZAZZ	38.3	90.7	64.5
RENAISSANCE (APR 1233)	35.0	94.0	64.5
ABT-99-4.339	35.0	93.7	64.3
ICON (MB 414)	35.0	93.7	64.3
DP 17-9391	33.3	95.0	64.2
SR 4220 (SRX 4801)	38.3	89.3	63.8
CATALINA II (PST-CATS)	31.7	95.7	63.7
AMAZING (B1)	35.0	92.0	63.5
CHURCHILL	31.7	95.3	63.5
ALL STAR2 (CIS-PR-78)	38.3	88.3	63.3
DAZZLE (ABT-99-4.724)	33.3	93.3	63.3
FIESTA 3	33.3	93.3	63.3
LPR 98-143	28.3	98.3	63.3
MONTEREY II (JR-187)	31.7	94.0	62.8
RACER	30.0	95.3	62.7
PREMIER II	30.0	94.7	62.3
WILMINGTON	30.0	94.7	62.3
GATOR 3 (CIS-PR-85)	33.3	91.3	62.3
LS 2100 (PST-2SBE)	30.0	94.3	62.2
PROSPORT (AG-P981)	30.0	94.3	62.2
APR 1235	30.0	94.0	62.0
CITATION FORE (PST-2BR)	28.3	95.0	61.7
CALYPSO II	26.7	96.3	61.5
SEVILLE II	30.0	93.0	61.5
CHARISMATIC (LTP 98-501)	28.3	94.3	61.3
PENTIUM (NJ-6401)	31.7	90.7	61.2
CATHEDRAL II	28.3	94.0	61.2
MP88	28.3	93.7	61.0
PINNACLE II (BAR 9 B2)	33.3	88.3	60.8
APR 1232	28.3	92.3	60.3
SALINAS (PST-2SLX)	25.0	95.0	60.0
HEADSTART	23.3	96.3	59.8
LINN	25.0	94.0	59.5
CABO (CIS-PR-80)	21.7	94.0	57.8
PST-2LA	25.0	88.0	56.5
ARRIVAL (CIS-PR-84)	15.0	90.0	52.5
LSD VALUE	21.8	5.4	11.3
C.V. (%)	33.9	3.5	14.7

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. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/							
NAME	MI1	WI1	MEAN	NAME	MI1	WI1	MEAN
SECRETARIAT	91.0	97.7	94.3	RENAISSANCE (APR 1233)	86.7	96.3	91.5
PREMIER	90.0	96.7	93.3	SEVILLE II	86.7	96.3	91.5
FIESTA 3	89.3	97.3	93.3	SR 4500	86.7	96.3	91.5
PST-2LA	88.3	98.3	93.3	DP LP-1	85.0	97.7	91.3
DLF-LDD	88.3	98.0	93.2	MP103	88.3	94.3	91.3
CALYPSO II	89.3	96.7	93.0	ABT-99-4.560	86.7	95.7	91.2
PASSPORT	88.0	98.0	93.0	BUCCANEER	87.7	94.7	91.2
APPLAUD (PENNINGTON-11301)	88.3	97.3	92.8	MONTEREY II (JR-187)	86.7	95.7	91.2
ALL STAR2 (CIS-PR-78)	88.3	97.0	92.7	PST-2RT	86.7	95.7	91.2
CITATION FORE (PST-2BR)	88.3	97.0	92.7	SR 4350 (APR 1237)	86.7	95.7	91.2
PALMER III	88.3	97.0	92.7	SRX 4120	86.7	95.7	91.2
WVPB-R-84	88.3	97.0	92.7	JR-128	85.0	97.3	91.2
DIVINE	88.3	96.7	92.5	KOOS R-71	86.0	96.3	91.2
HEADSTART	89.7	95.3	92.5	PST-2JH	86.7	95.3	91.0
YATSUGREEN	88.0	97.0	92.5	QUEST II (ABT-99-4.721)	85.0	97.0	91.0
GRAND SLAM 2L96 (PST-2L96)	86.7	98.0	92.3	RACER	87.7	94.3	91.0
INSPIRE (R8000)	88.3	96.3	92.3	AFFINITY	85.0	96.7	90.8
PREMIER II	88.3	96.3	92.3	APR 1234	86.7	95.0	90.8
LINE DRIVE	86.7	97.7	92.2	BRIGHTSTAR SLT (PST-2A6B)	85.0	96.7	90.8
AFFIRMED	90.0	94.3	92.2	CATHEDRAL II	85.0	96.7	90.8
ABT-99-4.115	86.7	97.3	92.0	IQ (CIS-PR-75)	85.0	96.7	90.8
CHARISMATIC (LTP 98-501)	88.3	95.7	92.0	SR 4220 (SRX 4801)	85.0	96.7	90.8
PACESETTER (6011)	87.3	96.7	92.0	STELLAR (CIS-PR-72)	86.7	95.0	90.8
PENTIUM (NJ-6401)	86.7	97.3	92.0	LPR 98-143	86.3	95.3	90.8
WVPB-R-82	86.7	97.3	92.0	BLAZER IV (PICK MDR)	85.0	96.3	90.7
LPR 98-144	88.0	95.7	91.8	DAZZLE (ABT-99-4.724)	85.0	96.3	90.7
MANHATTAN 4 (PST-2CRL)	86.7	97.0	91.8	DP 17-9069	83.3	98.0	90.7
PANTHER	86.7	97.0	91.8	JET	85.0	96.3	90.7
SR 4420 (SRX 4820)	87.7	96.0	91.8	PARAGON	85.0	96.3	90.7
PINNACLE II (BAR 9 B2)	88.3	95.3	91.8	RACER II (PICK RC2)	85.0	96.3	90.7
ABT-99-4.339	86.7	96.7	91.7	ALLSPORT	83.3	97.7	90.5
ABT-99-4.464	86.7	96.7	91.7	BARLENNIUM	85.7	95.3	90.5
CATALINA	86.7	96.7	91.7	MAJESTY	86.7	94.3	90.5
DP 17-9496	86.7	96.7	91.7	PHANTOM	85.0	96.0	90.5
APR 776	88.3	95.0	91.7	SUNKISSED (ABT-99-4.834)	85.0	96.0	90.5
BY-100	88.3	95.0	91.7	GATOR 3 (CIS-PR-85)	85.0	95.7	90.3
DP 17-9391	85.0	98.3	91.7	ICON (MB 414)	86.7	94.0	90.3
PLEASURE XL	89.0	94.3	91.7	KOKOMO (CIS-PR-69)	86.7	94.0	90.3
ABT-99-4.815	86.7	96.3	91.5	PICK EX2	85.0	95.7	90.3
ADMIRE (JR-151)	86.0	97.0	91.5	EXACTA	83.3	97.3	90.3
AMAZING (B1)	86.0	97.0	91.5	PEARL II (EPD)	83.3	97.3	90.3
APR 1231	85.0	98.0	91.5	SUMMERSET (MB 413)	86.7	93.7	90.2
BRIGHTSTAR II	88.3	94.7	91.5	ABT-99-4.600	83.3	97.0	90.2
CABO (CIS-PR-80)	86.7	96.3	91.5	MEPY	85.0	95.3	90.2
ELFKIN	85.0	98.0	91.5	APR 1232	86.7	93.3	90.0
MACH 1 (ROBERTS-627)	88.3	94.7	91.5	ASCEND	83.3	96.7	90.0
PICK PR QH-97	86.7	96.3	91.5	CATALINA II (PST-CATS)	85.0	95.0	90.0

TABLE 12. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MI1	WI1	MEAN
SALINAS (PST-2SLX)	85.0	95.0	90.0
CHARGER II	85.0	94.7	89.8
CHURCHILL	85.0	94.7	89.8
HAWKEYE (SRX 4RHT)	85.0	94.7	89.8
SPLendid (MB 411)	85.0	94.7	89.8
EDGE	83.3	96.3	89.8
MANHATTAN 3	86.7	92.7	89.7
PICK PR B-97	86.7	92.7	89.7
PROSPORT (AG-P981)	85.7	93.7	89.7
ARRIVAL (CIS-PR-84)	85.0	94.3	89.7
GALLERY (MB 412)	86.0	93.3	89.7
LS 2100 (PST-2SBE)	85.0	94.3	89.7
PICK PRNGS	83.3	96.0	89.7
PST-2M4	83.3	96.0	89.7
EXTREME (JR-317)	83.3	95.7	89.5
MP107	84.3	94.7	89.5
MP88	83.3	95.7	89.5
PENNANT II	85.0	94.0	89.5
RADIANT	84.3	94.7	89.5
MDP	82.7	96.0	89.3
PROTYME (ABT-99-4.625)	85.0	93.7	89.3
PST-2CRR	85.0	93.7	89.3
PR 1-94 (PICK PR 1-94)	86.3	92.3	89.3
PROMISE	83.3	95.0	89.2
PROWLER (APR 777)	83.3	95.0	89.2
LTP-ME	83.3	94.7	89.0
PARADIGM (APR 1236)	83.3	94.7	89.0
NEXUS	85.0	92.0	88.5
SUPERSTAR (EP57)	81.7	95.3	88.5
LINN	82.7	94.0	88.3
COURAGE (MB 410)	84.3	92.3	88.3
PIZZAZZ	83.3	93.3	88.3
SKYHAWK	81.7	94.7	88.2
CAS-LP84	79.3	97.0	88.2
APR 1235	85.0	91.0	88.0
ABT-99-4.965	83.3	91.0	87.2
WILMINGTON	81.7	92.3	87.0
TERRADYNE (A5C)	83.3	89.0	86.2
EP53	79.3	92.3	85.8
CRUISER (ABT-99-4.709)	83.3	83.3	83.3
LSD VALUE	7.4	4.6	4.3
C.V. (%)	5.3	3.0	4.2

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.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	M01	SD1	WI1	MEAN	NAME	M01	SD1	WI1	MEAN
ABT-99-4.115	96.0	94.7	98.3	96.3	EXTREME (JR-317)	94.3	88.3	93.3	92.0
PREMIER	95.3	94.7	97.3	95.8	PANTHER	93.3	85.0	97.7	92.0
WVPB-R-84	95.0	95.0	96.0	95.3	PICK PR QH-97	95.0	86.7	94.3	92.0
ABT-99-4.600	93.3	95.0	97.0	95.1	SUNKISSED (ABT-99-4.834)	93.3	88.3	94.0	91.9
PST-2RT	95.0	93.3	96.7	95.0	DIVINE	91.7	86.7	97.0	91.8
PICK EX2	95.0	93.0	96.3	94.8	ABT-99-4.339	96.0	85.0	94.3	91.8
CHARGER II	96.0	94.7	93.3	94.7	ABT-99-4.464	95.0	85.0	95.3	91.8
STELLAR (CIS-PR-72)	95.0	94.7	93.7	94.4	MANHATTAN 3	93.3	90.0	92.0	91.8
KOKOMO (CIS-PR-69)	95.0	93.0	95.3	94.4	IQ (CIS-PR-75)	95.0	83.3	96.7	91.7
PALMER III	95.0	91.7	96.3	94.3	EP53	96.0	90.0	88.7	91.6
ADMIRE (JR-151)	91.7	95.0	96.0	94.2	SR 4420 (SRX 4820)	91.7	86.7	96.3	91.6
DP 17-9069	95.0	90.0	97.7	94.2	DLF-LDD	91.7	86.7	96.0	91.4
PST-2JH	96.0	90.0	96.7	94.2	DP 17-9496	93.3	86.7	94.3	91.4
ELFKIN	95.0	90.0	97.0	94.0	PST-2M4	95.0	85.0	94.3	91.4
ABT-99-4.965	93.3	94.7	93.3	93.8	PENNANT II	93.3	85.0	95.7	91.3
BLAZER IV (PICK MDR)	95.3	89.7	96.3	93.8	CAS-LP84	95.0	83.3	95.3	91.2
PROWLER (APR 777)	93.3	93.3	94.7	93.8	MP107	93.3	88.3	92.0	91.2
MP103	93.3	91.7	95.7	93.6	PST-2CRR	91.7	91.3	90.3	91.1
SPLENDID (MB 411)	95.0	90.0	95.7	93.6	APR 1234	92.7	88.0	92.3	91.0
ABT-99-4.815	91.7	91.3	97.0	93.3	CATALINA	95.0	80.0	97.7	90.9
QUEST II (ABT-99-4.721)	95.0	88.3	96.7	93.3	INSPIRE (R8000)	95.0	80.0	97.3	90.8
SRX 4120	97.0	88.3	94.7	93.3	RADIANT	93.3	86.7	92.3	90.8
YATSUGREEN	91.7	90.0	98.3	93.3	MAJESTY	95.0	80.0	97.0	90.7
BARLENNIUM	91.7	91.7	96.0	93.1	RENAISSANCE (APR 1233)	88.3	88.0	95.7	90.7
PARAGON	91.7	90.0	97.7	93.1	SUMMERSSET (MB 413)	93.3	86.7	91.7	90.6
EXACTA	93.3	88.3	97.3	93.0	AMAZING (B1)	92.7	81.7	97.0	90.4
DAZZLE (ABT-99-4.724)	95.0	86.7	97.0	92.9	PLEASURE XL	95.0	81.7	94.7	90.4
TERRADYNE (A5C)	95.0	96.3	87.3	92.9	JET	91.7	83.3	96.3	90.4
LTP-ME	96.0	86.7	95.7	92.8	MANHATTAN 4 (PST-2CRL)	95.0	78.3	98.0	90.4
PEARL II (EPD)	96.0	86.7	95.7	92.8	BRIGHTSTAR SLT (PST-2A6B)	90.0	83.3	97.3	90.2
ALLSPORT	94.3	86.7	97.3	92.8	DP 17-9391	94.3	78.3	98.0	90.2
PACESETTER (6011)	95.0	85.0	98.3	92.8	LINE DRIVE	96.0	78.3	96.3	90.2
PHANTOM	91.7	91.3	95.3	92.8	PICK PRNGS	94.3	83.3	93.0	90.2
SR 4350 (APR 1237)	95.0	88.3	95.0	92.8	FIESTA 3	96.0	76.7	97.7	90.1
SUPERSTAR (EP57)	96.0	88.3	94.0	92.8	WVPB-R-82	90.0	81.3	98.3	89.9
APR 1231	93.3	86.7	98.0	92.7	AFFINITY	94.3	78.3	96.3	89.7
APR 776	93.3	89.7	95.0	92.7	BUCCANEER	93.3	81.7	93.7	89.6
JR-128	96.0	85.0	97.0	92.7	SECRETARIAT	88.3	83.3	97.0	89.6
GRAND SLAM 2L96 (PST-2L96)	95.0	86.7	96.0	92.6	GALLERY (MB 412)	91.7	85.0	91.3	89.3
ABT-99-4.560	93.3	88.3	96.0	92.6	PROTYME (ABT-99-4.625)	90.0	86.7	91.0	89.2
PROMISE	91.7	91.7	94.0	92.4	HAWKEYE (SRX 4RHT)	93.3	81.7	92.3	89.1
ALL STAR2 (CIS-PR-78)	95.0	85.0	97.0	92.3	PIZZAZZ	91.0	83.3	93.0	89.1
RACER II (PICK RC2)	95.0	90.0	92.0	92.3	SR 4220 (SRX 4801)	97.0	75.0	95.3	89.1
APPLAUD (PENNINGTON-11301)	93.3	86.7	96.7	92.2	PINNACLE II (BAR 9 B2)	93.3	80.0	93.7	89.0
SR 4500	96.0	86.7	94.0	92.2	PICK PR B-97	93.3	81.7	91.7	88.9
BY-100	95.0	88.3	93.3	92.2	ASCEND	93.3	76.7	96.3	88.8
COURAGE (MB 410)	95.0	88.3	93.3	92.2	KOOS R-71	92.7	79.3	94.3	88.8

TABLE 13. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	M01	SD1	WI1	MEAN
MDP	95.0	75.0	95.7	88.6
DP LP-1	93.3	75.0	97.0	88.4
MACH 1 (ROBERTS-627)	95.0	76.7	93.0	88.2
PENTIUM (NJ-6401)	95.0	73.3	96.3	88.2
CHURCHILL	96.0	73.3	94.7	88.0
PASSPORT	93.3	73.3	97.3	88.0
SKYHAWK	90.0	80.0	93.3	87.8
PARADIGM (APR 1236)	91.7	83.3	87.7	87.6
CATALINA II (PST-CATS)	92.7	73.3	96.0	87.3
ICON (MB 414)	93.3	73.3	95.3	87.3
NEXUS	91.7	86.7	83.7	87.3
PR 1-94 (PICK PR 1-94)	93.3	76.7	90.7	86.9
BRIGHTSTAR II	93.3	73.3	94.0	86.9
PST-2LA	95.0	68.3	97.0	86.8
CRUISER (ABT-99-4.709)	95.0	88.3	74.7	86.0
GATOR 3 (CIS-PR-85)	93.3	70.0	94.7	86.0
MEPY	95.0	66.7	93.7	85.1
LPR 98-144	88.3	71.3	94.7	84.8
MONTEREY II (JR-187)	93.3	65.0	95.3	84.6
EDGE	95.0	63.0	95.0	84.3
RACER	96.0	60.0	95.7	83.9
APR 1235	95.0	75.0	81.3	83.8
AFFIRMED	96.3	58.3	96.0	83.6
LPR 98-143	93.3	61.7	95.0	83.3
PREMIER II	94.3	58.3	97.0	83.2
CATHEDRAL II	94.3	58.3	96.0	82.9
CITATION FORE (PST-2BR)	92.7	58.3	97.3	82.8
LS 2100 (PST-2SBE)	93.3	58.3	96.0	82.6
CALYPSO II	94.7	56.7	96.0	82.4
APR 1232	96.0	56.7	93.7	82.1
PROSPORT (AG-P981)	91.7	60.0	93.7	81.8
CHARISMATIC (LTP 98-501)	93.3	56.7	95.0	81.7
SALINAS (PST-2SLX)	94.3	56.7	94.0	81.7
SEVILLE II	95.0	55.0	95.0	81.7
MP88	95.0	56.7	92.0	81.2
WILMINGTON	95.0	56.7	91.0	80.9
LINN	93.3	63.3	83.3	80.0
CABO (CIS-PR-80)	91.7	50.0	94.3	78.7
HEADSTART	91.7	30.0	97.0	72.9
ARRIVAL (CIS-PR-84)	91.7	26.7	93.7	70.7
LSD VALUE	4.9	35.5	6.7	12.2
C.V. (%)	3.3	27.5	4.4	14.6

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 14. WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	VA1	NAME	VA1
CHARISMATIC (LTP 98-501)	7.0	NEXUS	6.0
HAWKEYE (SRX 4RHT)	7.0	PENTIUM (NJ-6401)	6.0
KOKOMO (CIS-PR-69)	7.0	PICK PR B-97	6.0
PIZZAZZ	7.0	PICK PR QH-97	6.0
SR 4220 (SRX 4801)	7.0	PICK PRNGS	6.0
SUNKISSED (ABT-99-4.834)	7.0	PST-2LA	6.0
ARRIVAL (CIS-PR-84)	6.7	RACER II (PICK RC2)	6.0
BLAZER IV (PICK MDR)	6.7	SR 4420 (SRX 4820)	6.0
CABO (CIS-PR-80)	6.7	TERRADYNE (A5C)	6.0
GALLERY (MB 412)	6.7	AFFIRMED	5.7
INSPIRE (R8000)	6.7	ALLSPORT	5.7
IQ (CIS-PR-75)	6.7	APR 1231	5.7
MACH 1 (ROBERTS-627)	6.7	APR 776	5.7
STELLAR (CIS-PR-72)	6.7	ASCEND	5.7
ALL STAR2 (CIS-PR-78)	6.3	BARLENNIUM	5.7
AMAZING (B1)	6.3	BUCCANEER	5.7
APR 1232	6.3	CAS-LP84	5.7
CHURCHILL	6.3	COURAGE (MB 410)	5.7
DAZZLE (ABT-99-4.724)	6.3	FIESTA 3	5.7
ELFKIN	6.3	GATOR 3 (CIS-PR-85)	5.7
KOOS R-71	6.3	ICON (MB 414)	5.7
MDP	6.3	JR-128	5.7
MP107	6.3	MEPY	5.7
PARAGON	6.3	MP88	5.7
PROTYME (ABT-99-4.625)	6.3	PACESETTER (6011)	5.7
PST-2CRR	6.3	PENNANT II	5.7
QUEST II (ABT-99-4.721)	6.3	PHANTOM	5.7
SEVILLE II	6.3	PICK EX2	5.7
SR 4350 (APR 1237)	6.3	PLEASURE XL	5.7
SUMMERSET (MB 413)	6.3	PR 1-94 (PICK PR 1-94)	5.7
ABT-99-4.965	6.0	PREMIER	5.7
APPLAUD (PENNINGTON-11301)	6.0	PST-2JH	5.7
APR 1234	6.0	RADIANT	5.7
BRIGHTSTAR II	6.0	WILMINGTON	5.7
BRIGHTSTAR SLT (PST-2A6B)	6.0	ABT-99-4.115	5.3
CATALINA	6.0	ABT-99-4.339	5.3
CATALINA II (PST-CATS)	6.0	ABT-99-4.464	5.3
CITATION FORE (PST-2BR)	6.0	ABT-99-4.600	5.3
CRUISER (ABT-99-4.709)	6.0	ADMIRE (JR-151)	5.3
EXACTA	6.0	APR 1235	5.3
GRAND SLAM 2L96 (PST-2L96)	6.0	CATHEDRAL II	5.3
JET	6.0	CHARGER II	5.3
LPR 98-143	6.0	EP53	5.3
LTP-ME	6.0	EXTREME (JR-317)	5.3
MANHATTAN 4 (PST-2CRL)	6.0	LINE DRIVE	5.3
MP103	6.0	MAJESTY	5.3
		MANHATTAN 3	5.3

TABLE 14. WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	VA1
MONTEREY II (JR-187)	5.3
PANTHER	5.3
PINNACLE II (BAR 9 B2)	5.3
PROMISE	5.3
PROSPORT (AG-P981)	5.3
SALINAS (PST-2SLX)	5.3
SECRETARIAT	5.3
SPLENDID (MB 411)	5.3
SR 4500	5.3
SRX 4120	5.3
YATSUGREEN	5.3
ABT-99-4.560	5.0
CALYPSO II	5.0
DIVINE	5.0
DLF-LDD	5.0
DP 17-9496	5.0
LS 2100 (PST-2SBE)	5.0
PALMER III	5.0
PARADIGM (APR 1236)	5.0
PEARL II (EPD)	5.0
PROWLER (APR 777)	5.0
PST-2M4	5.0
PST-2RT	5.0
RACER	5.0
RENAISSANCE (APR 1233)	5.0
ABT-99-4.815	4.7
AFFINITY	4.7
BY-100	4.7
DP 17-9391	4.7
DP LP-1	4.7
EDGE	4.7
HEADSTART	4.7
LINN	4.7
LPR 98-144	4.7
PASSPORT	4.7
PREMIER II	4.7
SKYHAWK	4.7
SUPERSTAR (EP57)	4.7
WVPB-R-82	4.7
WVPB-R-84	4.7
DP 17-9069	4.0
LSD VALUE	1.3
C.V. (%)	14.6

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 15. PERCENT WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	SD1	NAME	SD1
ARRIVAL (CIS-PR-84)	77.0	DP 17-9496	60.0
LINN	75.0	GRAND SLAM 2L96 (PST-2L96)	60.0
PST-2LA	73.3	INSPIRE (R8000)	60.0
LPR 98-143	71.7	IQ (CIS-PR-75)	60.0
CHARISMATIC (LTP 98-501)	71.3	MANHATTAN 4 (PST-2CRL)	60.0
CITATION FORE (PST-2BR)	71.3	PASSPORT	60.0
MP88	71.3	PENNANT II	60.0
APR 1235	70.0	PR 1-94 (PICK PR 1-94)	60.0
PROSPORT (AG-P981)	69.7	PST-2M4	60.0
RACER	69.7	SECRETARIAT	60.0
SEVILLE II	69.7	KOOS R-71	59.0
CATALINA II (PST-CATS)	68.3	ABT-99-4.560	58.3
CHURCHILL	68.3	BUCCANEER	58.3
MONTEREY II (JR-187)	68.3	CATALINA	58.3
PENTIUM (NJ-6401)	68.3	ELFKIN	58.3
CABO (CIS-PR-80)	67.5	JET	58.3
DAZZLE (ABT-99-4.724)	66.7	MDP	58.3
DP 17-9391	66.7	PACESETTER (6011)	58.3
DP LP-1	66.7	PALMER III	58.3
GATOR 3 (CIS-PR-85)	66.7	PARAGON	58.3
PINNACLE II (BAR 9 B2)	66.7	PROTYME (ABT-99-4.625)	58.3
ABT-99-4.339	65.0	SR 4220 (SRX 4801)	58.3
AMAZING (B1)	65.0	APR 1232	57.5
BRIGHTSTAR II	65.0	CATHEDRAL II	57.5
FIESTA 3	65.0	APR 1234	56.7
MEPY	65.0	EP53	56.7
RENAISSANCE (APR 1233)	65.0	EXACTA	56.7
DLF-LDD	63.3	MAJESTY	56.7
GALLERY (MB 412)	63.3	PANTHER	56.7
ICON (MB 414)	63.3	PEARL II (EPD)	56.7
LINE DRIVE	63.3	PROWLER (APR 777)	56.7
MACH 1 (ROBERTS-627)	63.3	PST-2RT	56.7
PICK PR B-97	63.3	SPLENDID (MB 411)	56.7
SKYHAWK	63.3	SR 4420 (SRX 4820)	56.7
HEADSTART	62.5	BLAZER IV (PICK MDR)	55.0
SALINAS (PST-2SLX)	62.5	DIVINE	55.0
ABT-99-4.464	61.7	JR-128	55.0
ALL STAR2 (CIS-PR-78)	61.7	LS 2100 (PST-2SBIE)	55.0
BRIGHTSTAR SLT (PST-2A6B)	61.7	LTP-ME	55.0
HAWKEYE (SRX 4RHT)	61.7	MP103	55.0
PICK PRNGS	61.7	MP107	55.0
PIZZAZZ	61.7	PREMIER II	55.0
AFFINITY	60.0	PST-2JH	55.0
APPLAUD (PENNINGTON-11301)	60.0	QUEST II (ABT-99-4.721)	55.0
APR 1231	60.0	RACER II (PICK RC2)	55.0
ASCEND	60.0	SUMMERSET (MB 413)	55.0
CALYPSO II	60.0	SUNKISSED (ABT-99-4.834)	55.0

TABLE 15. PERCENT WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	SD1
WILMINGTON	55.0
ABT-99-4.600	53.3
CHARGER II	53.3
CRUISER (ABT-99-4.709)	53.3
KOKOMO (CIS-PR-69)	53.3
LPR 98-144	53.3
MANHATTAN 3	53.3
NEXUS	53.3
PARADIGM (APR 1236)	53.3
PROMISE	53.3
SR 4500	53.3
WVPB-R-84	53.3
AFFIRMED	52.5
ABT-99-4.115	51.7
ABT-99-4.815	51.7
ADMIRE (JR-151)	51.7
APR 776	51.7
COURAGE (MB 410)	51.7
DP 17-9069	51.7
PICK PR QH-97	51.7
PLEASURE XL	51.7
RADIANT	51.7
SR 4350 (APR 1237)	51.7
SRX 4120	51.7
WVPB-R-82	51.7
YATSUGREEN	51.7
BARLENNIUM	50.0
EXTREME (JR-317)	50.0
PHANTOM	50.0
PST-2CRR	50.0
SUPERSTAR (EP57)	50.0
ALLSPORT	48.3
CAS-LP84	48.3
PICK EX2	46.7
TERRADYNE (A5C)	46.7
PREMIER	45.0
BY-100	43.3
ABT-99-4.965	40.0
EDGE	40.0
STELLAR (CIS-PR-72)	40.0
LSD VALUE	19.0
C.V. (%)	19.8

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. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ1	NAME	NJ1
ABT-99-4.560	9.0	PACESETTER (6011)	8.7
AFFINITY	9.0	PALMER III	8.7
APR 1231	9.0	PEARL II (EPD)	8.7
APR 776	9.0	PENTIUM (NJ-6401)	8.7
BRIGHTSTAR SLT (PST-2A6B)	9.0	PHANTOM	8.7
BUCCANEER	9.0	PICK EX2	8.7
CHARGER II	9.0	PIZZAZZ	8.7
DAZZLE (ABT-99-4.724)	9.0	PROTYME (ABT-99-4.625)	8.7
DP 17-9391	9.0	PST-2LA	8.7
DP LP-1	9.0	SALINAS (PST-2SLX)	8.7
EDGE	9.0	SECRETARIAT	8.7
ELFKIN	9.0	WILMINGTON	8.7
GRAND SLAM 2L96 (PST-2L96)	9.0	WVPB-R-82	8.7
HAWKEYE (SRX 4RHT)	9.0	WVPB-R-84	8.7
KOOS R-71	9.0	ABT-99-4.339	8.3
LPR 98-143	9.0	AFFIRMED	8.3
MP107	9.0	ALL STAR2 (CIS-PR-78)	8.3
PROSPORT (AG-P981)	9.0	APR 1235	8.3
PROWLER (APR 777)	9.0	CATALINA	8.3
QUEST II (ABT-99-4.721)	9.0	CHARISMATIC (LTP 98-501)	8.3
RADIANT	9.0	DP 17-9496	8.3
SR 4220 (SRX 4801)	9.0	EP53	8.3
SR 4350 (APR 1237)	9.0	EXACTA	8.3
STELLAR (CIS-PR-72)	9.0	GATOR 3 (CIS-PR-85)	8.3
SUMMERSET (MB 413)	9.0	HEADSTART	8.3
ABT-99-4.464	8.7	INSPIRE (R8000)	8.3
ABT-99-4.965	8.7	JET	8.3
ADMIRE (JR-151)	8.7	JR-128	8.3
ALLSPORT	8.7	KOKOMO (CIS-PR-69)	8.3
APPLAUD (PENNINGTON-11301)	8.7	LTP-ME	8.3
APR 1232	8.7	MACH 1 (ROBERTS-627)	8.3
BLAZER IV (PICK MDR)	8.7	MDP	8.3
CABO (CIS-PR-80)	8.7	MP88	8.3
CITATION FORE (PST-2BR)	8.7	PARAGON	8.3
DLF-LDD	8.7	PASSPORT	8.3
DP 17-9069	8.7	PICK PR QH-97	8.3
EXTREME (JR-317)	8.7	PICK PRNGS	8.3
GALLERY (MB 412)	8.7	PLEASURE XL	8.3
IQ (CIS-PR-75)	8.7	RACER	8.3
LINE DRIVE	8.7	RENAISSANCE (APR 1233)	8.3
LPR 98-144	8.7	SKYHAWK	8.3
MANHATTAN 3	8.7	SR 4420 (SRX 4820)	8.3
MANHATTAN 4 (PST-2CRL)	8.7	SRX 4120	8.3
MEPY	8.7	SUPERSTAR (EP57)	8.3
MONTEREY II (JR-187)	8.7	YATSUGREEN	8.3
MP103	8.7	ABT-99-4.600	8.0
		ARRIVAL (CIS-PR-84)	8.0

TABLE 16. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ1
BARLENNIUM	8.0
CATHEDRAL II	8.0
FIESTA 3	8.0
ICON (MB 414)	8.0
NEXUS	8.0
PENNANT II	8.0
PST-2M4	8.0
SPLENDID (MB 411)	8.0
SR 4500	8.0
SUNKISSED (ABT-99-4.834)	8.0
TERRADYNE (A5C)	8.0
ABT-99-4.115	7.7
AMAZING (B1)	7.7
ASCEND	7.7
DIVINE	7.7
LINN	7.7
PANTHER	7.7
PICK PR B-97	7.7
PREMIER	7.7
PREMIER II	7.7
PST-2CRR	7.7
PST-2JH	7.7
RACER II (PICK RC2)	7.7
SEVILLE II	7.7
ABT-99-4.815	7.3
APR 1234	7.3
BRIGHTSTAR II	7.3
BY-100	7.3
CALYPSO II	7.3
CAS-LP84	7.3
CATALINA II (PST-CATS)	7.3
CHURCHILL	7.3
COURAGE (MB 410)	7.3
PINNACLE II (BAR 9 B2)	7.3
PR 1-94 (PICK PR 1-94)	7.3
PROMISE	7.3
PST-2RT	7.3
CRUISER (ABT-99-4.709)	7.0
PARADIGM (APR 1236)	7.0
LS 2100 (PST-2SBE)	6.7
MAJESTY	6.0
LSD VALUE	1.7
C.V. (%)	12.8

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 17. BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME1	PA1	MEAN	NAME	ME1	PA1	MEAN
AMAZING (B1)	9.0	8.3	8.7	MANHATTAN 3	8.0	8.0	8.0
ARRIVAL (CIS-PR-84)	9.0	8.3	8.7	MONTEREY II (JR-187)	8.7	7.3	8.0
ALL STAR2 (CIS-PR-78)	9.0	8.0	8.5	PENNANT II	9.0	7.0	8.0
PALMER III	8.7	8.3	8.5	PICK EX2	8.0	8.0	8.0
PINNACLE II (BAR 9 B2)	9.0	8.0	8.5	PST-2JH	8.0	8.0	8.0
RACER II (PICK RC2)	8.7	8.3	8.5	PST-2RT	8.3	7.7	8.0
MACH 1 (ROBERTS-627)	9.0	7.7	8.3	SPLENDID (MB 411)	8.7	7.3	8.0
PACESETTER (6011)	9.0	7.7	8.3	SR 4420 (SRX 4820)	9.0	7.0	8.0
PANTHER	9.0	7.7	8.3	SUNKISSED (ABT-99-4.834)	9.0	7.0	8.0
PARADIGM (APR 1236)	8.3	8.3	8.3	WVPB-R-84	7.7	8.3	8.0
PICK PR QH-97	9.0	7.7	8.3	ABT-99-4.600	8.0	7.7	7.8
SEVILLE II	9.0	7.7	8.3	AFFIRMED	8.3	7.3	7.8
CITATION FORE (PST-2BR)	8.7	8.0	8.3	APR 776	8.0	7.7	7.8
PENTIUM (NJ-6401)	8.7	8.0	8.3	CATHEDRAL II	9.0	6.7	7.8
RACER	8.7	8.0	8.3	CHARISMATIC (LTP 98-501)	8.0	7.7	7.8
PROTYME (ABT-99-4.625)	8.3	8.0	8.2	CRUISER (ABT-99-4.709)	7.7	8.0	7.8
SECRETARIAT	8.3	8.0	8.2	DAZZLE (ABT-99-4.724)	8.3	7.3	7.8
ABT-99-4.115	9.0	7.3	8.2	EXTREME (JR-317)	8.3	7.3	7.8
ABT-99-4.339	8.7	7.7	8.2	HEADSTART	8.3	7.3	7.8
ABT-99-4.464	8.7	7.7	8.2	LINE DRIVE	8.3	7.3	7.8
ABT-99-4.815	9.0	7.3	8.2	MAJESTY	8.0	7.7	7.8
BLAZER IV (PICK MDR)	9.0	7.3	8.2	PICK PRNGS	8.3	7.3	7.8
DLF-LDD	9.0	7.3	8.2	PIZZAZZ	8.3	7.3	7.8
EDGE	9.0	7.3	8.2	PST-2CRR	8.3	7.3	7.8
ELFKIN	9.0	7.3	8.2	PST-2LA	8.3	7.3	7.8
EXACTA	8.7	7.7	8.2	QUEST II (ABT-99-4.721)	9.0	6.7	7.8
GRAND SLAM 2L96 (PST-2L96)	9.0	7.3	8.2	SR 4350 (APR 1237)	9.0	6.7	7.8
ICON (MB 414)	8.7	7.7	8.2	SR 4500	8.0	7.7	7.8
PICK PR B-97	8.7	7.7	8.2	SRX 4120	7.7	8.0	7.8
PREMIER II	9.0	7.3	8.2	TERRADYNE (A5C)	7.3	8.3	7.8
SALINAS (PST-2SLX)	8.7	7.7	8.2	APR 1232	8.7	7.0	7.8
SR 4220 (SRX 4801)	8.7	7.7	8.2	APR 1235	8.7	7.0	7.8
YATSUGREEN	7.7	8.7	8.2	ASCEND	8.7	7.0	7.8
ALLSPORT	8.7	7.3	8.0	CALYPSO II	8.7	7.0	7.8
APPLAUD (PENNINGTON-11301)	8.7	7.3	8.0	ADMIRE (JR-151)	7.7	7.7	7.7
BARLENNIUM	9.0	7.0	8.0	BRIGHTSTAR SLT (PST-2A6B)	7.7	7.7	7.7
CHURCHILL	8.7	7.3	8.0	CATALINA II (PST-CATS)	7.7	7.7	7.7
COURAGE (MB 410)	9.0	7.0	8.0	PREMIER	8.3	7.0	7.7
FIESTA 3	7.7	8.3	8.0	APR 1231	8.7	6.7	7.7
GATOR 3 (CIS-PR-85)	8.3	7.7	8.0	CHARGER II	8.0	7.3	7.7
HAWKEYE (SRX 4RHT)	8.3	7.7	8.0	PARAGON	7.3	8.0	7.7
INSPIRE (R8000)	8.3	7.7	8.0	PROMISE	9.0	6.3	7.7
IQ (CIS-PR-75)	9.0	7.0	8.0	SUMMERSET (MB 413)	8.7	6.7	7.7
JET	8.3	7.7	8.0	BRIGHTSTAR II	8.3	6.7	7.5
KOKOMO (CIS-PR-69)	8.3	7.7	8.0	BUCCANEER	7.3	7.7	7.5
LTP-ME	8.7	7.3	8.0	BY-100	8.0	7.0	7.5
				CABO (CIS-PR-80)	8.0	7.0	7.5

TABLE 17. BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/			
NAME	ME1	PA1	MEAN
CATALINA	7.7	7.3	7.5
LS 2100 (PST-2SBE)	8.0	7.0	7.5
MDP	8.7	6.3	7.5
NEXUS	7.7	7.3	7.5
PASSPORT	8.7	6.3	7.5
PST-2M4	7.3	7.7	7.5
RADIANT	8.7	6.3	7.5
SKYHAWK	8.0	7.0	7.5
STELLAR (CIS-PR-72)	7.3	7.7	7.5
AFFINITY	6.7	8.0	7.3
GALLERY (MB 412)	8.3	6.3	7.3
MANHATTAN 4 (PST-2CRL)	8.0	6.7	7.3
PEARL II (EPD)	8.3	6.3	7.3
PHANTOM	8.3	6.3	7.3
PR 1-94 (PICK PR 1-94)	7.7	7.0	7.3
RENAISSANCE (APR 1233)	8.3	6.3	7.3
ABT-99-4.560	7.3	7.3	7.3
ABT-99-4.965	7.3	7.3	7.3
DIVINE	8.7	6.0	7.3
PROSPORT (AG-P981)	7.0	7.3	7.2
PLEASURE XL	7.7	6.3	7.0
WILMINGTON	7.3	6.7	7.0
CAS-LP84	7.0	6.7	6.8
EP53	7.7	6.0	6.8
JR-128	7.7	6.0	6.8
PROWLER (APR 777)	7.7	6.0	6.8
KOOS R-71	6.3	7.3	6.8
SUPERSTAR (EP57)	7.3	6.3	6.8
WVPB-R-82	6.3	7.3	6.8
APR 1234	6.0	7.3	6.7
LPR 98-143	7.3	6.0	6.7
LPR 98-144	6.0	7.3	6.7
DP 17-9496	5.3	7.7	6.5
MP88	8.0	5.0	6.5
MEPY	7.0	5.7	6.3
MP103	6.7	6.0	6.3
MP107	7.0	5.7	6.3
DP 17-9391	6.7	5.7	6.2
DP LP-1	5.7	6.7	6.2
DP 17-9069	5.7	6.0	5.8
LINN	4.3	4.7	4.5
LSD VALUE	1.8	1.6	1.2
C.V. (%)	13.4	13.8	13.6

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 18. GRAY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ1	NAME	NJ1
SR 4500	8.3	PARADIGM (APR 1236)	6.0
ABT-99-4.560	8.0	PEARL II (EPD)	6.0
APR 1235	8.0	PROWLER (APR 777)	6.0
CITATION FORE (PST-2BR)	8.0	PST-2M4	6.0
IQ (CIS-PR-75)	8.0	SR 4420 (SRX 4820)	6.0
SR 4220 (SRX 4801)	8.0	SRX 4120	6.0
PARAGON	7.7	SUMMERSET (MB 413)	6.0
ASCEND	7.3	SUNKISSED (ABT-99-4.834)	6.0
EP53	7.3	SUPERSTAR (EP57)	6.0
LS 2100 (PST-2SBE)	7.3	TERRADYNE (A5C)	6.0
PREMIER	7.3	YATSUGREEN	6.0
RADIANT	7.3	ABT-99-4.965	5.7
SEVILLE II	7.3	ALL STAR2 (CIS-PR-78)	5.7
STELLAR (CIS-PR-72)	7.3	BRIGHTSTAR II	5.7
AMAZING (B1)	7.0	BUCCANEER	5.7
APR 1234	7.0	DP LP-1	5.7
DIVINE	7.0	INSPIRE (R8000)	5.7
PST-2LA	7.0	JET	5.7
RACER II (PICK RC2)	7.0	MAJESTY	5.7
WILMINGTON	7.0	MEPY	5.7
BARLENNIUM	6.7	PENTIUM (NJ-6401)	5.7
CABO (CIS-PR-80)	6.7	PIZZAZZ	5.7
CHARISMATIC (LTP 98-501)	6.7	PROSPORT (AG-P981)	5.7
ELFKIN	6.7	PST-2JH	5.7
KOKOMO (CIS-PR-69)	6.7	PST-2RT	5.7
LPR 98-143	6.7	SR 4350 (APR 1237)	5.7
MP107	6.7	APR 776	5.3
MP88	6.7	BLAZER IV (PICK MDR)	5.3
PACESETTER (6011)	6.7	BRIGHTSTAR SLT (PST-2A6B)	5.3
PICK EX2	6.7	CAS-LP84	5.3
PINNACLE II (BAR 9 B2)	6.7	CATALINA II (PST-CATS)	5.3
PROTYME (ABT-99-4.625)	6.7	FIESTA 3	5.3
SECRETARIAT	6.7	GALLERY (MB 412)	5.3
EXACTA	6.3	ICON (MB 414)	5.3
GATOR 3 (CIS-PR-85)	6.3	MDP	5.3
MANHATTAN 3	6.3	NEXUS	5.3
MP103	6.3	PICK PR B-97	5.3
PICK PR QH-97	6.3	PREMIER II	5.3
SALINAS (PST-2SLX)	6.3	RENAISSANCE (APR 1233)	5.3
APR 1232	6.0	SKYHAWK	5.3
CALYPSO II	6.0	WVPB-R-84	5.3
CHURCHILL	6.0	AFFIRMED	5.0
COURAGE (MB 410)	6.0	APPLAUD (PENNINGTON-11301)	5.0
GRAND SLAM 2L96 (PST-2L96)	6.0	CATHEDRAL II	5.0
JR-128	6.0	CHARGER II	5.0
MANHATTAN 4 (PST-2CRL)	6.0	CRUISER (ABT-99-4.709)	5.0
		DP 17-9069	5.0

TABLE 18. GRAY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ1
DP 17-9391	5.0
DP 17-9496	5.0
LINE DRIVE	5.0
MONTEREY II (JR-187)	5.0
PASSPORT	5.0
PENNANT II	5.0
PHANTOM	5.0
PROMISE	5.0
PST-2CRR	5.0
QUEST II (ABT-99-4.721)	5.0
RACER	5.0
ABT-99-4.464	4.7
ABT-99-4.815	4.7
APR 1231	4.7
DAZZLE (ABT-99-4.724)	4.7
EXTREME (JR-317)	4.7
LINN	4.7
LTP-ME	4.7
PICK PRNGS	4.7
PLEASURE XL	4.7
PR 1-94 (PICK PR 1-94)	4.7
SPLENDID (MB 411)	4.7
AFFINITY	4.3
HAWKEYE (SRX 4RHT)	4.3
HEADSTART	4.3
MACH 1 (ROBERTS-627)	4.3
PALMER III	4.3
ABT-99-4.339	4.0
ABT-99-4.600	4.0
BY-100	4.0
KOOS R-71	4.0
ABT-99-4.115	3.7
DLF-LDD	3.7
EDGE	3.7
CATALINA	3.3
LPR 98-144	3.3
WVPB-R-82	3.3
ADMIRE (JR-151)	3.0
ALLSPORT	3.0
ARRIVAL (CIS-PR-84)	2.7
PANTHER	2.0
LSD VALUE	2.5
C.V. (%)	28.0

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 19. FALL COLOR (SEPTEMBER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	WI1	NAME	WI1
ARRIVAL (CIS-PR-84)	8.0	LTP-ME	7.0
TERRADYNE (A5C)	8.0	MANHATTAN 4 (PST-2CRL)	7.0
AMAZING (B1)	7.7	MDP	7.0
GATOR 3 (CIS-PR-85)	7.7	MEPY	7.0
MACH 1 (ROBERTS-627)	7.7	MP103	7.0
PINNACLE II (BAR 9 B2)	7.7	MP88	7.0
PIZZAZZ	7.7	NEXUS	7.0
SUNKISSED (ABT-99-4.834)	7.7	PALMER III	7.0
ALL STAR2 (CIS-PR-78)	7.3	PARADIGM (APR 1236)	7.0
BLAZER IV (PICK MDR)	7.3	PARAGON	7.0
CHARISMATIC (LTP 98-501)	7.3	PASSPORT	7.0
DLF-LDD	7.3	PENNANT II	7.0
INSPIRE (R8000)	7.3	PENTIUM (NJ-6401)	7.0
JET	7.3	PHANTOM	7.0
RADIANT	7.3	PICK PR B-97	7.0
SR 4220 (SRX 4801)	7.3	PICK PR QH-97	7.0
STELLAR (CIS-PR-72)	7.3	PR 1-94 (PICK PR 1-94)	7.0
WILMINGTON	7.3	PREMIER II	7.0
ABT-99-4.115	7.0	PROSPORT (AG-P981)	7.0
ABT-99-4.339	7.0	PROTYME (ABT-99-4.625)	7.0
ABT-99-4.560	7.0	PST-2CRR	7.0
ABT-99-4.600	7.0	PST-2LA	7.0
ABT-99-4.815	7.0	PST-2M4	7.0
ABT-99-4.965	7.0	QUEST II (ABT-99-4.721)	7.0
ALLSPORT	7.0	SALINAS (PST-2SLX)	7.0
APPLAUD (PENNINGTON-11301)	7.0	SEVILLE II	7.0
ASCEND	7.0	SPLENDID (MB 411)	7.0
BARLENNIUM	7.0	SR 4420 (SRX 4820)	7.0
BRIGHTSTAR II	7.0	SR 4500	7.0
BRIGHTSTAR SLT (PST-2A6B)	7.0	SUMMERSET (MB 413)	7.0
CABO (CIS-PR-80)	7.0	SUPERSTAR (EP57)	7.0
CAS-LP84	7.0	ABT-99-4.464	6.7
CATALINA II (PST-CATS)	7.0	ADMIRE (JR-151)	6.7
CHURCHILL	7.0	AFFIRMED	6.7
CITATION FORE (PST-2BR)	7.0	CALYPSO II	6.7
COURAGE (MB 410)	7.0	CATALINA	6.7
CRUISER (ABT-99-4.709)	7.0	CATHEDRAL II	6.7
DAZZLE (ABT-99-4.724)	7.0	CHARGER II	6.7
ELFKIN	7.0	EP53	6.7
EXACTA	7.0	EXTREME (JR-317)	6.7
FIESTA 3	7.0	LINE DRIVE	6.7
GALLERY (MB 412)	7.0	LPR 98-144	6.7
GRAND SLAM 2L96 (PST-2L96)	7.0	LS 2100 (PST-2SBE)	6.7
HAWKEYE (SRX 4RHT)	7.0	MAJESTY	6.7
ICON (MB 414)	7.0	MANHATTAN 3	6.7
IQ (CIS-PR-75)	7.0	MP107	6.7
KOKOMO (CIS-PR-69)	7.0	PACESETTER (6011)	6.7

TABLE 19. FALL COLOR (SEPTEMBER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	WI1
PANTHER	6.7
PEARL II (EPD)	6.7
PLEASURE XL	6.7
PROMISE	6.7
PST-2JH	6.7
PST-2RT	6.7
SKYHAWK	6.7
APR 1235	6.3
DIVINE	6.3
JR-128	6.3
MONTEREY II (JR-187)	6.3
RACER II (PICK RC2)	6.3
SECRETARIAT	6.3
SRX 4120	6.3
AFFINITY	6.0
APR 1231	6.0
APR 1232	6.0
APR 776	6.0
BUCCANEER	6.0
BY-100	6.0
EDGE	6.0
HEADSTART	6.0
KOOS R-71	6.0
LPR 98-143	6.0
PICK EX2	6.0
PICK PRNGS	6.0
PREMIER	6.0
PROWLER (APR 777)	6.0
RACER	6.0
SR 4350 (APR 1237)	6.0
WVPB-R-82	6.0
WVPB-R-84	6.0
YATSUGREEN	6.0
DP LP-1	5.7
RENAISSANCE (APR 1233)	5.7
APR 1234	5.3
DP 17-9496	5.3
DP 17-9069	5.0
DP 17-9391	5.0
LINN	4.0
LSD VALUE	0.6
C.V. (%)	5.2

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 20. CRABGRASS RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
2003 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/

NAME	NY1	NAME	NY1
ABT-99-4.464	7.7	PHANTOM	7.0
ABT-99-4.600	7.7	PICK PR QH-97	7.0
AMAZING (B1)	7.7	PICK PRNGS	7.0
DIVINE	7.7	ABT-99-4.965	6.7
DP 17-9496	7.7	ADMIRE (JR-151)	6.7
INSPIRE (R8000)	7.7	ALL STAR2 (CIS-PR-78)	6.7
MAJESTY	7.7	APR 1231	6.7
MANHATTAN 4 (PST-2CRL)	7.7	APR 1234	6.7
MEPY	7.7	ASCEND	6.7
PROWLER (APR 777)	7.7	BRIGHTSTAR II	6.7
PST-2CRR	7.7	BY-100	6.7
SALINAS (PST-2SLX)	7.7	CABO (CIS-PR-80)	6.7
SR 4350 (APR 1237)	7.7	CATALINA	6.7
ABT-99-4.339	7.3	CATHEDRAL II	6.7
ALLSPORT	7.3	CHURCHILL	6.7
BRIGHTSTAR SLT (PST-2A6B)	7.3	CITATION FORE (PST-2BR)	6.7
CATALINA II (PST-CATS)	7.3	GALLERY (MB 412)	6.7
KOOS R-71	7.3	MDP	6.7
LS 2100 (PST-2SBE)	7.3	MP107	6.7
PANTHER	7.3	NEXUS	6.7
PARAGON	7.3	PENNANT II	6.7
PENTIUM (NJ-6401)	7.3	PLEASURE XL	6.7
PICK PR B-97	7.3	PROMISE	6.7
PIZZAZZ	7.3	PST-2RT	6.7
RACER II (PICK RC2)	7.3	QUEST II (ABT-99-4.721)	6.7
SEVILLE II	7.3	SPLENDID (MB 411)	6.7
SKYHAWK	7.3	APR 776	6.3
SUPERSTAR (EP57)	7.3	BARLENNIUM	6.3
WVPB-R-84	7.3	BLAZER IV (PICK MDR)	6.3
YATSUGREEN	7.3	EDGE	6.3
ABT-99-4.560	7.0	HEADSTART	6.3
AFFINITY	7.0	ICON (MB 414)	6.3
APR 1235	7.0	IQ (CIS-PR-75)	6.3
ARRIVAL (CIS-PR-84)	7.0	JR-128	6.3
CAS-LP84	7.0	LINE DRIVE	6.3
EP53	7.0	MACH 1 (ROBERTS-627)	6.3
EXACTA	7.0	PASSPORT	6.3
EXTREME (JR-317)	7.0	PICK EX2	6.3
FIESTA 3	7.0	PINNACLE II (BAR 9 B2)	6.3
GATOR 3 (CIS-PR-85)	7.0	SECRETARIAT	6.3
LPR 98-143	7.0	SRX 4120	6.3
LPR 98-144	7.0	ABT-99-4.115	6.0
MANHATTAN 3	7.0	ABT-99-4.815	6.0
PALMER III	7.0	APPLAUD (PENNINGTON-11301)	6.0
PARADIGM (APR 1236)	7.0	CALYPSO II	6.0
PEARL II (EPD)	7.0	DLF-LDD	6.0
		DP 17-9069	6.0

TABLE 20. CRABGRASS RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
(CONT'D) 2003 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/

NAME	NY1
DP 17-9391	6.0
KOKOMO (CIS-PR-69)	6.0
MONTEREY II (JR-187)	6.0
MP103	6.0
MP88	6.0
PREMIER II	6.0
SUNKISSED (ABT-99-4.834)	6.0
WVPB-R-82	6.0
BUCCANEER	5.7
CHARGER II	5.7
DAZZLE (ABT-99-4.724)	5.7
ELFKIN	5.7
HAWKEYE (SRX 4RHT)	5.7
PACESETTER (6011)	5.7
PR 1-94 (PICK PR 1-94)	5.7
PROTYME (ABT-99-4.625)	5.7
PST-2LA	5.7
RADIANT	5.7
RENAISSANCE (APR 1233)	5.7
SR 4420 (SRX 4820)	5.7
STELLAR (CIS-PR-72)	5.7
SUMMERSET (MB 413)	5.7
CRUISER (ABT-99-4.709)	5.3
LTP-ME	5.3
PROSPORT (AG-P981)	5.3
PST-2JH	5.3
RACER	5.3
SR 4220 (SRX 4801)	5.3
SR 4500	5.3
WILMINGTON	5.3
AFFIRMED	5.0
APR 1232	5.0
CHARISMATIC (LTP 98-501)	5.0
COURAGE (MB 410)	5.0
JET	5.0
PREMIER	5.0
PST-2M4	5.0
TERRADYNE (A5C)	5.0
GRAND SLAM 2L96 (PST-2L96)	4.5
DP LP-1	4.3
LINN	3.7
LSD VALUE	2.8
C.V. (%)	26.8

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS
IN THE 1999 NATIONAL PERENNIAL RYEGRASS TEST
2003 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	ALL LOCATIONS		SUM OF RANKS 3/	STATISTICS FOR ALL LOCATIONS			
	MEAN 1/	RANK 2/		RANK 4/	HIGHEST RANK 5/	LOWEST RANK 6/	MAXIMUM IN TOP 25% 7/
ABT-99-4.115	6.0	28	1136	30	5	121	43.5
ABT-99-4.339	5.9	43	1352	47	10	116	26.1
ABT-99-4.464	6.0	34	1199	35	7	121	30.4
ABT-99-4.560	6.0	29	1120	28	9	113	43.5
ABT-99-4.600	5.6	102	1832	88	4	122	8.7
ABT-99-4.815	5.8	63	1548	67	5	108	21.7
ABT-99-4.965	5.7	86	1743	78	4	124	13.0
ADMIRE (JR-151)	5.8	64	1549	68	9	124	17.4
AFFINITY	5.6	111	2031	110	19	127	13.0
AFFIRMED	6.0	33	1129	29	3	115	39.1
ALL STAR2 (CIS-PR-78)	6.2	9	1059	21	2	119	43.5
ALLSPORT	5.5	116	2166	118	39	129	0.0
AMAZING (B1)	6.1	14	951	16	4	113	60.9
APPLAUD (PENNINGTON-11301)	6.2	8	899	9	3	129	60.9
APR 1231	5.8	65	1505	62	1	120	21.7
APR 1232	5.8	66	1543	66	2	121	26.1
APR 1234	5.2	126	2504	131	24	132	8.7
APR 1235	5.6	96	1840	91	23	131	17.4
APR 776	5.7	93	1902	98	25	124	4.3
ARRIVAL (CIS-PR-84)	6.1	12	948	13	2	97	52.2
ASCEND	5.9	52	1444	59	5	116	30.4
BARLENNIUM	5.9	58	1427	57	9	121	39.1
BLAZER IV (PICK MDR)	6.0	26	1093	23	7	128	56.5
BRIGHTSTAR II	5.8	69	1563	69	11	113	17.4
BRIGHTSTAR SLT (PST-2A6B)	6.1	18	860	8	2	84	52.2
BUCCANEER	5.1	132	2612	132	9	133	4.3
BY-100	5.4	121	2140	115	5	130	8.7
CABO (CIS-PR-80)	5.9	42	1312	46	6	123	43.5
CALYPSO II	6.0	35	1194	34	8	103	30.4
CAS-LP84	5.6	97	1907	100	24	123	8.7
CATALINA	5.5	112	1887	97	9	134	21.7
CATALINA II (PST-CATS)	5.7	88	1786	84	22	128	4.3
CATHEDRAL II	5.8	68	1532	64	13	119	17.4
CHARGER II	5.6	107	1995	107	2	125	8.7
CHARISMATIC (LTP 98-501)	6.1	11	975	18	4	118	60.9
CHURCHILL	6.0	36	1294	42	1	118	34.8
CITATION FORE (PST-2BR)	6.2	5	858	7	2	97	52.2
COURAGE (MB 410)	5.9	48	1383	49	6	124	17.4
CRUISER (ABT-99-4.709)	5.6	99	1905	99	13	133	8.7
DAZZLE (ABT-99-4.724)	6.0	27	1086	22	9	126	43.5
DIVINE	5.9	57	1414	55	10	120	26.1
DLF-LDD	6.1	19	934	12	2	128	56.5
DP 17-9069	5.2	127	2316	122	10	132	8.7
DP 17-9391	5.2	129	2333	123	7	132	8.7
DP 17-9496	4.4	133	2795	133	42	134	0.0
DP LP-1	5.2	130	2466	129	32	132	13.0
EDGE	5.4	124	2207	119	18	127	13.0
ELFKIN	5.9	47	1224	36	2	116	34.8
EP53	5.5	118	2378	125	1	131	4.3

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) IN THE 1999 NATIONAL PERENNIAL RYEGRASS TEST
 2003 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	STATISTICS FOR ALL LOCATIONS						
	ALL LOCATIONS		SUM OF	HIGHEST	LOWEST	MAXIMUM	IN TOP 25% 7/
	MEAN 1/	RANK 2/	RANKS 3/	RANK 4/	RANK 5/	RANK 6/	
EXACTA	6.0	30	1155	31	5	126	39.1
EXTREME (JR-317)	5.7	87	1837	90	25	123	8.7
FIESTA 3	5.9	40	1276	40	2	128	30.4
GALLERY (MB 412)	5.9	39	1304	44	2	124	30.4
GATOR 3 (CIS-PR-85)	6.3	2	651	1	1	96	69.6
GRAND SLAM 2L96 (PST-2L96)	6.2	7	843	6	2	108	56.5
HAWKEYE (SRX 4RHT)	6.0	25	1185	32	1	102	39.1
HEADSTART	5.6	108	2045	112	25	133	13.0
ICON (MB 414)	5.9	44	1369	48	15	122	17.4
INSPIRE (R8000)	6.2	6	778	3	1	116	65.2
IQ (CIS-PR-75)	5.8	62	1539	65	6	128	17.4
JET	6.1	13	823	5	3	125	60.9
JR-128	5.7	81	1882	96	42	122	0.0
KOKOMO (CIS-PR-69)	6.1	21	1094	24	3	128	47.8
KOOS R-71	5.4	125	2434	128	46	131	0.0
LINE DRIVE	5.7	77	1687	74	39	111	4.3
LINN	3.2	134	3031	134	97	134	0.0
LPR 98-143	5.4	123	2260	120	27	132	4.3
LPR 98-144	5.6	103	1955	106	9	128	13.0
LS 2100 (PST-2SBE)	5.9	56	1412	53	13	117	26.1
LTP-ME	5.7	80	1743	78	9	131	17.4
MACH 1 (ROBERTS-627)	6.2	3	949	14	1	122	56.5
MAJESTY	5.9	60	1525	63	24	130	13.0
MANHATTAN 3	5.7	85	1767	81	2	126	17.4
MANHATTAN 4 (PST-2CRL)	6.0	24	1096	26	2	117	47.8
MDP	5.6	100	1929	102	26	134	13.0
MEPY	5.6	109	2110	114	50	130	0.0
MONTEREY II (JR-187)	5.8	71	1615	70	3	132	26.1
MP103	5.5	115	2166	118	45	134	0.0
MP107	5.6	101	1931	103	17	130	4.3
MP88	5.7	92	1786	84	20	133	13.0
NEXUS	5.8	73	1701	75	13	132	30.4
PACESETTER (6011)	6.0	31	1102	27	1	104	43.5
PALMER III	5.7	75	1654	73	25	124	13.0
PANTHER	5.6	110	1932	104	7	132	13.0
PARADIGM (APR 1236)	5.7	74	1750	80	17	126	8.7
PARAGON	6.0	38	1285	41	2	126	39.1
PASSPORT	5.5	113	2023	109	18	133	8.7
PEARL II (EPD)	5.6	98	1844	93	15	131	8.7
PENNANT II	5.7	95	1847	95	6	134	17.4
PENTIUM (NJ-6401)	6.1	16	974	17	5	97	52.2
PHANTOM	5.5	117	2147	116	23	132	8.7
PICK EX2	5.7	90	1817	86	1	128	21.7
PICK PR B-97	5.8	70	1652	72	14	131	26.1
PICK PR QH-97	5.9	51	1397	51	13	116	21.7
PICK PRNGS	5.7	84	1789	85	5	121	21.7
PINNACLE II (BAR 9 B2)	6.1	17	924	10	1	117	56.5
PIZZAZZ	6.3	1	810	4	1	131	60.9
PLEASURE XL	5.7	83	1833	89	21	115	4.3

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS
(CONT'D) IN THE 1999 NATIONAL PERENNIAL RYEGRASS TEST
2003 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	ALL LOCATIONS		SUM OF RANKS 3/	STATISTICS FOR ALL LOCATIONS			MAXIMUM IN TOP 25% 7/
	MEAN 1/	RANK 2/		RANK 4/	HIGHEST RANK 5/	LOWEST RANK 6/	
PR 1-94 (PICK PR 1-94)	5.7	82	1847	95	15	130	8.7
PREMIER	5.4	119	2284	121	51	133	0.0
PREMIER II	6.0	32	1193	33	2	97	26.1
PROMISE	5.8	72	1748	79	23	121	8.7
PROSPORT (AG-P981)	5.4	120	2335	124	31	129	4.3
PROTYME (ABT-99-4.625)	5.7	91	1828	87	7	132	13.0
PROWLER (APR 777)	5.7	89	1842	92	1	130	17.4
PST-2CRR	5.6	106	1933	105	7	132	13.0
PST-2JH	5.8	61	1417	56	10	117	26.1
PST-2LA	5.9	54	1268	39	7	127	30.4
PST-2M4	5.9	53	1310	45	8	113	34.8
PST-2RT	5.9	55	1459	60	13	107	21.7
QUEST II (ABT-99-4.721)	6.1	22	1017	19	3	102	47.8
RACER	5.7	94	2033	111	13	125	13.0
RACER II (PICK RC2)	5.9	46	1388	50	4	119	21.7
RADIANT	5.9	50	1437	58	15	112	26.1
RENAISSANCE (APR 1233)	5.6	104	1915	101	28	129	8.7
SALINAS (PST-2SLX)	5.9	41	1252	37	3	115	34.8
SECRETARIAT	5.7	79	1770	82	16	128	21.7
SEVILLE II	6.1	20	1095	25	5	127	43.5
SKYHAWK	5.4	122	2413	127	60	131	0.0
SPLENDID (MB 411)	5.9	45	1411	52	4	123	26.1
SR 4220 (SRX 4801)	6.2	4	670	2	3	122	69.6
SR 4350 (APR 1237)	5.9	49	1300	43	11	112	26.1
SR 4420 (SRX 4820)	6.2	10	929	11	1	111	47.8
SR 4500	6.1	15	951	16	1	133	47.8
SRX 4120	5.7	76	1623	71	16	129	21.7
STELLAR (CIS-PR-72)	5.9	59	1413	54	4	127	26.1
SUMMERSSET (MB 413)	5.7	78	1710	76	9	130	13.0
SUNKISSED (ABT-99-4.834)	6.1	23	1021	20	3	103	52.2
SUPERSTAR (EP57)	5.6	105	2056	113	25	129	4.3
TERRADYNE (A5C)	6.0	37	1263	38	4	124	39.1
WILMINGTON	5.8	67	1485	61	17	130	30.4
WVPB-R-82	5.2	128	2413	127	12	132	13.0
WVPB-R-84	5.5	114	1999	108	13	125	17.4
YATSUGREEN	5.1	131	2482	130	14	133	17.4

LSD VALUE

0.2

C.V. (%)

8.5

*/ 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).

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

1/ MEAN - AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ RANK - RANKING OF THE MEAN OF ALL QUALITY RATINGS.

3/ SUM OF RANKS - A SUM OF ALL THE RANKINGS FROM THE VARIOUS LOCATIONS.

4/ RANK - THE RANKING OF THE SUM OF RANKS.

5/ HIGHEST RANK - THE HIGHEST RANKING ACHIEVED BY THAT ENTRY AT ANY ONE LOCATION.

6/ LOWEST RANK - THE LOWEST RANKING ACHIEVED BY THAT ENTRY AT ANY ONE LOCATION.

7/ MAXIMUM IN TOP 25% - THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.