

## **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 2000-03

<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
Maryland	College Park (Disease Study)	MD2
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Missouri	St. Louis (Traffic Study)	MO3
Montana	Bozeman	MT1
Nebraska	Mead	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New Jersey	North Brunswick (Traffic Study)	NJ3
Nova Scotia	Truro	NS1
New York	Ithaca	NY1
New York	Ithaca (Traffic Study)	NY2
Ohio	Columbus	OH1
Pennsylvania	University Park	PA1
Quebec	Quebec City	QE1
Rhode Island	Kingston	RI1
South Dakota	Brookings	SD1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Puyallup (Fairway)	WA3
Washington	Puyallup (Traffic Study)	WA4
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 <sup>2</sup> (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.

2000-03 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	2.1-2.5	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	3.1-4.0	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	1.6-2.0	TO PREVENT DORMANCY
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
MD2	SILT LOAM AND SILT	5.6-6.0	61-150	241-375	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
ME1	SANDY LOAM	6.6-7.0	0-60	501+	-	FULL SUN	-	TO PREVENT STRESS
MI1	SANDY LOAM	7.1-7.5	61-150	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY
MN1	SILTY CLAY LOAM	6.6-7.0	61-150	241-375	4.1-5.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
M01	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
M03	SILT LOAM AND SILT	6.1-6.5	151-270	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
MT1	SILT LOAM AND SILT	7.1-7.5	61-150	501+	0.0-1.0	FULL SUN	0-0.5	TO PREVENT STRESS
NE1	SILTY CLAY LOAM	6.6-7.0	0-60	0-150	0.0-1.0	FULL SUN	0-0.2	TO PREVENT STRESS
NJ1	SANDY LOAM	5.6-6.0	151-270	241-375	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	SANDY 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	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NS1	SANDY LOAM	5.6-6.0	451+	501+	1.1-2.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE 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
OH1	SILT LOAM AND SILT	6.6-7.0	0-60	241-375	2.1-3.0	PARTIAL SHADE	2.6-3.0	ONLY DURING SEVERE STRESS
PA1	LOAM	6.1-6.5	271-450	151-240	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
RI1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
SD1	SILTY CLAY LOAM	7.6-8.5	0-60	241-375	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
UT1	SILTY CLAY AND CLAY	7.6-8.5	0-60	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
VA1	SILT LOAM AND SILT	6.6-7.0	0-60	0-150	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
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
WA4	LOAMY SAND	5.6-6.0	0-60	0-150	6.1-7.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
WI1	SANDY 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 2000-03

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		X
IA1					X	X	X	X	X	X			X	X	X
IL1				X	X	X	X	X	X	X			X	X	
IL2			X	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		X		X
KY1			X	X	X	X	X	X	X	X			X	X	
MD1					X	X	X	X	X	X	X		X	X	X
MD2															
ME1				X	X	X	X	X	X	X			X		
MI1				X	X	X	X	X	X	X	X		X	X	X
MN1				X	X	X	X	X	X	X			X	X	
MO1			X	X	X	X	X	X	X	X	X		X	X	
MO3			X	X	X	X	X	X	X	X	X		X		
MT1					X	X	X	X	X	X			X		X
NE1				X	X	X	X	X	X	X			X	X	X
NJ1			X	X	X	X	X	X	X	X	X		X	X	X
NJ2			X	X	X	X	X	X	X	X	X		X	X	X
NJ3							X	X	X	X	X		X	X	X
NS1				X	X	X	X	X	X	X			X	X	
NY1				X	X	X	X	X	X	X			X	X	X
NY2				X	X	X	X	X	X	X	X		X	X	X
OH1				X	X	X	X	X	X	X	X		X		
PA1					X	X	X	X	X	X			X	X	
QE1					X	X	X	X	X	X			X	X	X
RI1						X	X	X	X	X	X		X	X	
SD1				X	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	X	X	
WA1				X	X	X	X	X	X	X			X	X	
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X		
WA4	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 2000-03

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	DROUGHT TOLERANCE WILTING	TYPHULA BLIGHT	LEAF SPOT	STEM RUST	DOLLAR SPOT	RED THREAD	BROWN PATCH WARM TEMP.
CA6	X			X			X									
IA1	X															
IL1																
IL2	X				X	X										X
IN1	X															
KS1														X		
KY1		X	X	X	X	X	X									
MD1																
MD2																
ME1																X
MI1	X	X	X	X	X	X	X						X	X		
MN1	X															
MO1					X		X									
M03																
MT1	X	X	X	X												
NE1	X	X	X	X												
NJ1	X		X	X										X	X	
NJ2	X			X										X		
NJ3																
NS1	X						X									
NY1	X		X													
NY2	X				X	X	X						X			
OH1	X															
PA1			X													X
QE1		X	X	X	X											
RI1	X													X		
SD1	X	X	X		X		X		X		X					
UT1	X		X													
VA1								X		X					X	
WA1	X															
WA3	X		X	X								X				
WA4	X	X	X	X		X		X							X	
WI1		X	X	X	X	X	X									

LOCATIONS AND DATA COLLECTED IN 2000-03

LOCATION	CROWN RUST	GRAY LEAF SPOT	SNOW MOLD	PINK PATCH	FALL COLOR SEPTEMBER	POA ANNUA	CRABGRASS RATINGS	WINTER DENSITY	RUST DISEASE	PERCENT PATCH DISEASE	MELTING OUT (JULY)	PERCENT ESTABLISHMENT	PERCENT ESTABLISHMENT FALL/99	PERCENT ESTABLISHMENT SPR/00	PERCENT ESTABLISHMENT MAY	PERCENT ESTABLISHMENT JUN	PERCENT ESTABLISHMENT JUL	PERCENT ESTABLISHMENT AUG	RED THREAD JUNE	RED THREAD JULY	
CA6																					
IA1												X									
IL1												X									
IL2		X																			
IN1																					
KS1																					
KY1										X											
MD1																					
MD2		X																			
ME1												X									
MI1																					
MN1																					
MO1											X		X	X							
* M03												X									
MT1																					
NE1																					
NJ1	X	X																			
NJ2																					
NJ3																					
NS1												X									
NY1				X			X														
NY2																					
OH1																					
PA1																					
QE1															X	X	X	X			
RI1																					
SD1																					
UT1												X									
VA1																				X	X
WA1																					
WA3								X													
* WA4								X				X									
WI1			X	X	X	X			X												

\* MORE TRAFFIC STUDY DATA FOR M03 (TABLE 39-41) AND WA4 (TABLE 42-43).

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 GROWN AT TEN LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE A (HIGH MAINTENANCE/FAIRWAY)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	KY1	MD1	MT1	NE1	NY1	SD1	UT1	VA1	WA3	MEAN
* GRAND SLAM 2L96 (PST-2L96)	6.7	7.8	6.3	6.6	6.6	6.8	5.0	5.2	5.3	5.5	6.1
* PIZZAZZ	6.4	7.7	6.2	6.2	7.2	6.4	5.0	4.9	5.2	5.7	6.1
* APPLAUD (PENNINGTON-11301)	6.2	7.6	5.8	6.5	6.7	6.6	5.7	5.2	5.2	5.5	6.1
* MACH 1 (ROBERTS-627)	5.7	7.3	6.6	6.5	6.6	6.4	5.4	5.8	4.8	5.9	6.1
* INSPIRE (R8000)	6.4	7.3	6.1	6.4	6.9	6.3	5.2	5.4	5.0	5.8	6.1
* CHARISMATIC (LTP 98-501)	6.5	7.2	6.2	5.9	6.8	6.6	5.3	5.1	5.0	5.6	6.0
* SR 4420 (SRX 4820)	6.4	7.8	5.6	6.3	6.9	6.5	5.3	5.3	5.1	5.2	6.0
* GATOR 3 (CIS-PR-85)	6.3	7.5	6.2	6.5	6.9	6.0	5.2	5.6	4.7	5.5	6.0
* QUEST II (ABT-99-4.721)	6.7	7.0	6.0	6.2	6.7	6.5	5.0	5.5	5.1	5.4	6.0
* PENTIUM (NJ-6401)	6.2	7.0	5.9	6.5	6.3	6.6	5.1	5.5	5.1	5.6	5.9
* SR 4220 (SRX 4801)	6.4	7.4	5.7	6.1	6.7	6.5	5.0	5.5	5.1	5.2	5.9
* CABO (CIS-PR-80)	6.5	7.5	5.9	6.8	6.5	6.2	4.6	5.5	4.8	5.5	5.9
* BLAZER IV (PICK MDR)	6.1	7.4	5.7	6.0	6.9	6.5	5.2	5.1	4.8	5.5	5.9
* CITATION FORE (PST-2BR)	5.7	7.7	5.9	6.0	6.3	6.3	5.0	5.3	5.1	6.0	5.9
* SPLENDID (MB 411)	5.9	7.4	5.8	6.3	6.9	6.0	5.2	5.3	4.8	5.6	5.9
* ARRIVAL (CIS-PR-84)	5.9	7.1	5.8	6.3	6.8	6.0	5.4	5.5	4.9	5.5	5.9
* KOKOMO (CIS-PR-69)	5.9	7.3	5.5	5.8	7.0	6.2	5.2	5.7	5.1	5.1	5.9
* AMAZING (B1)	5.8	7.4	5.9	6.5	6.8	6.2	5.1	5.7	4.8	5.1	5.9
* CHURCHILL	6.7	6.8	5.8	6.2	6.4	6.2	5.4	5.2	5.2	5.1	5.9
* COURAGE (MB 410)	6.6	7.0	5.6	6.3	6.7	6.3	5.0	5.2	5.1	5.3	5.9
DLF-LDD	6.2	7.2	5.8	6.4	5.9	6.3	4.9	5.6	5.5	5.3	5.9
* SEVILLE II	6.2	7.2	5.7	6.2	6.7	6.2	4.9	5.5	5.0	5.4	5.9
* GALLERY (MB 412)	6.2	7.5	6.1	6.2	6.9	6.2	5.0	5.4	4.4	5.0	5.9
* HAWKEYE (SRX 4RHT)	6.5	7.1	5.4	6.2	6.6	6.2	5.4	5.1	4.9	5.4	5.9
* STELLAR (CIS-PR-72)	6.3	7.7	5.3	6.5	6.2	6.2	5.2	5.4	5.1	5.0	5.9
* ALL STAR2 (CIS-PR-78)	6.2	7.5	5.6	6.5	6.7	6.3	5.2	5.3	4.9	4.8	5.9
* PINNACLE II (BAR 9 B2)	6.2	6.7	5.8	6.5	6.5	6.6	5.2	5.1	4.8	5.5	5.9
* DAZZLE (ABT-99-4.724)	5.4	7.1	5.2	6.2	6.8	6.8	5.3	5.3	5.1	5.5	5.8
* IQ (CIS-PR-75)	6.0	7.2	5.8	6.3	6.5	6.4	5.0	5.4	4.9	5.2	5.8
* BRIGHTSTAR SLT (PST-2A6B)	5.9	7.5	5.7	5.9	6.3	6.5	5.2	5.1	5.3	4.9	5.8
* EXACTA	5.6	7.2	5.8	6.5	6.3	6.2	5.1	5.2	5.2	5.4	5.8
* SALINAS (PST-2SLX)	6.0	7.0	5.8	6.1	5.9	6.2	5.1	5.4	5.1	5.5	5.8
ABT-99-4.115	6.2	6.8	5.4	6.6	6.3	6.3	5.4	5.2	5.0	5.1	5.8
* ELFKIN	6.0	7.2	5.7	5.8	6.2	6.3	5.2	5.3	5.1	5.2	5.8
* TERRADYNE (A5C)	6.5	7.4	5.8	5.9	6.4	6.2	5.0	5.1	4.6	5.1	5.8
* SR 4500	5.3	7.0	5.9	6.0	6.7	6.0	4.8	5.3	5.3	5.6	5.8
* SUNKISSED (ABT-99-4.834)	5.7	7.3	5.6	6.0	7.0	6.3	5.2	4.9	4.9	5.1	5.8
* JET	6.1	7.3	5.6	5.7	6.2	6.2	5.3	5.4	4.8	5.2	5.8
* MAJESTY	6.1	7.1	5.8	6.8	6.5	5.6	4.9	5.6	5.0	5.0	5.8
* RACER II (PICK RC2)	6.0	7.2	5.7	6.4	6.1	6.5	5.0	5.2	4.9	5.2	5.8
* PENNANT II	6.8	6.6	5.8	5.8	6.2	6.6	4.7	5.4	4.4	5.5	5.8
* PREMIER II	5.6	6.7	5.7	6.3	6.4	6.4	5.3	5.2	5.2	5.3	5.8
* RADIANT	5.5	7.5	5.8	6.0	6.6	6.4	5.1	5.0	4.6	5.4	5.8
* PARAGON	5.9	7.1	5.7	5.8	6.7	6.2	5.3	5.1	4.5	5.3	5.8
* ASCEND	6.1	7.2	5.6	6.3	6.4	6.2	5.1	4.9	4.9	5.2	5.8
ABT-99-4.339	6.5	7.1	5.6	6.5	6.3	6.2	5.0	4.9	4.9	5.1	5.8
* DIVINE	5.5	6.8	5.7	6.8	6.4	6.6	4.8	5.7	5.1	4.9	5.8
* FIESTA 3	5.8	6.6	5.7	6.4	6.4	6.2	5.1	5.3	5.2	5.2	5.8
* ICON (MB 414)	5.9	7.4	5.7	6.1	6.3	6.2	4.8	5.4	4.8	5.2	5.8

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) GROWN AT TEN LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE A (HIGH MAINTENANCE/FAIRWAY)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	KY1	MD1	MT1	NE1	NY1	SD1	UT1	VA1	WA3	MEAN
* SUMMERSSET (MB 413)	6.0	7.2	5.5	5.7	6.8	6.5	4.8	5.3	4.7	5.1	5.8
* MANHATTAN 4 (PST-2CRL)	5.4	7.7	5.5	6.2	6.3	5.8	5.1	5.2	5.1	5.5	5.8
* NEXUS	6.1	7.3	5.9	6.5	5.6	6.2	5.1	5.4	4.5	5.3	5.7
* CALYPSO II	6.0	6.7	5.8	6.0	6.2	6.4	4.9	5.3	5.4	4.9	5.7
ABT-99-4.464	5.9	6.9	5.3	6.4	6.5	5.9	5.1	5.3	5.0	5.3	5.7
* LS 2100 (PST-2SBE)	6.2	7.2	5.7	6.0	5.9	5.9	4.9	5.6	4.8	5.3	5.7
* BARLENNIUM	5.5	6.6	6.1	6.6	6.2	6.0	4.8	5.3	4.9	5.6	5.7
PICK PR QH-97	5.6	7.0	5.7	6.1	6.2	6.4	5.2	5.1	5.0	5.2	5.7
* PACESETTER (6011)	5.8	6.8	5.5	7.1	5.7	6.3	5.1	5.3	5.0	5.2	5.7
ABT-99-4.965	5.9	7.0	5.5	6.3	6.1	6.6	5.1	5.5	4.6	4.7	5.7
* WILMINGTON	6.1	7.1	5.8	6.6	6.0	6.1	5.0	5.0	4.6	5.2	5.7
* ADMIRE (JR-151)	6.6	6.6	5.2	6.5	6.3	6.0	4.7	5.0	5.3	5.1	5.7
* AFFIRMED	5.9	6.7	5.7	6.3	6.1	6.0	5.0	5.3	5.0	5.3	5.7
PST-2JH	5.7	7.0	5.4	6.4	5.8	6.6	4.9	5.6	4.9	4.9	5.7
* PALMER III	6.4	6.2	5.5	5.9	6.3	6.3	5.2	5.3	4.7	5.1	5.7
* SR 4350 (APR 1237)	5.6	7.1	5.5	6.2	6.3	6.2	5.0	5.0	5.1	5.0	5.7
ABT-99-4.815	5.9	6.9	5.0	5.8	6.5	6.1	4.9	5.5	5.0	5.1	5.7
PICK PRNGS	6.0	6.6	5.5	5.8	6.2	5.9	5.0	5.2	4.9	5.6	5.7
* CRUISER (ABT-99-4.709)	5.7	7.0	5.6	6.3	6.2	6.3	4.5	5.5	4.9	5.1	5.7
* PROMISE	5.9	7.0	5.7	5.7	6.5	6.5	4.8	4.9	4.5	5.1	5.6
* RENAISSANCE (APR 1233)	6.3	6.7	5.3	5.9	5.9	6.5	4.6	5.3	5.1	5.1	5.6
* BRIGHTSTAR II	6.0	6.6	5.6	5.8	5.8	6.0	4.9	5.4	5.1	5.3	5.6
MP107	6.0	6.4	5.4	6.7	6.2	6.3	5.0	5.8	4.2	4.9	5.6
PST-2M4	6.1	7.1	5.5	5.7	6.0	6.2	4.6	5.5	4.8	5.0	5.6
ABT-99-4.560	5.2	6.9	5.8	6.7	5.9	6.3	4.8	5.3	4.9	5.0	5.6
PICK PR B-97	6.3	6.8	5.7	5.9	6.4	5.8	5.1	5.1	4.4	5.0	5.6
* PLEASURE XL	5.8	6.9	5.8	6.1	6.2	5.8	4.7	5.3	4.9	5.1	5.6
LPR 98-144	6.5	6.0	5.5	5.9	7.0	5.7	5.2	4.9	4.8	5.0	5.6
APR 776	6.3	6.4	5.3	6.3	6.6	6.1	4.8	5.1	5.1	4.6	5.6
JR-128	5.7	6.6	5.6	6.1	6.4	6.3	4.8	5.0	5.0	5.0	5.6
* EXTREME (JR-317)	6.1	6.3	5.5	5.9	6.4	5.9	5.0	5.3	5.0	5.0	5.6
* CATALINA II (PST-CATS)	6.2	6.8	5.7	6.0	5.7	5.8	4.8	5.2	4.9	5.2	5.6
* PR 1-94 (PICK PR 1-94)	5.7	6.7	5.4	6.3	6.4	6.2	4.9	5.2	4.8	4.7	5.6
* HEADSTART	6.1	5.8	5.7	6.7	6.3	5.8	5.1	4.9	4.7	5.4	5.6
* CATHEDRAL II	6.1	6.5	5.2	5.9	6.1	6.1	5.3	5.0	5.2	4.7	5.6
* PEARL II (EPD)	5.6	7.0	5.8	6.0	5.7	6.3	4.8	5.3	4.4	5.0	5.6
MP88	5.5	6.9	5.7	6.2	6.2	6.2	4.9	5.6	4.4	4.7	5.6
* PARADIGM (APR 1236)	5.8	7.3	5.2	6.0	6.1	6.0	5.0	5.1	4.8	4.7	5.6
* LINE DRIVE	6.0	6.7	5.4	6.8	5.8	6.1	4.5	5.1	4.8	5.3	5.6
SRX 4120	6.4	6.6	5.2	6.2	5.1	6.3	4.7	5.3	5.1	5.1	5.6
* PROWLER (APR 777)	5.6	6.6	5.7	6.3	5.9	6.1	4.2	5.3	5.1	5.1	5.6
* RACER	6.5	6.6	5.7	5.6	5.7	6.3	4.3	5.2	4.8	4.8	5.5
PST-2RT	5.4	6.8	5.2	6.3	5.9	6.1	4.9	5.3	5.1	4.8	5.5
MDP	5.5	6.9	5.6	5.7	6.1	6.1	4.9	5.4	4.5	4.8	5.5
* PASSPORT	5.7	6.1	5.5	5.7	6.2	6.1	5.0	5.2	5.0	5.1	5.5
PICK EX2	5.3	6.3	5.1	6.3	6.0	6.6	4.7	5.5	5.2	4.9	5.5
LPR 98-143	6.0	6.6	5.4	6.5	6.1	6.0	5.0	4.9	4.5	4.8	5.5
PST-2LA	5.8	6.4	5.5	6.1	5.8	5.7	5.2	5.4	4.7	5.0	5.5
APR 1232	6.4	6.3	5.0	6.2	5.7	6.4	4.6	5.2	4.9	4.9	5.5
* MANHATTAN 3	6.6	6.7	5.5	6.4	5.4	6.2	4.9	4.9	4.4	4.8	5.5

TABLE 1.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TEN LOCATIONS IN THE U.S. AND CANADA 1/  
USING "SCHEDULE A (HIGH MAINTENANCE/FAIRWAY)" \*/  
2000-03 DATA  
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	KY1	MD1	MT1	NE1	NY1	SD1	UT1	VA1	WA3	MEAN
PST-2CRR	5.8	6.2	5.3	6.0	6.2	6.5	4.8	5.0	4.5	5.1	5.5
ABT-99-4.600	5.7	6.9	5.0	6.2	6.0	6.2	4.9	5.2	4.7	4.8	5.5
* MONTEREY II (JR-187)	5.1	6.2	5.3	5.8	6.2	6.2	4.9	5.5	5.1	5.0	5.5
* PHANTOM	5.6	6.3	5.2	6.3	5.8	6.3	4.6	5.6	4.6	5.2	5.5
* SECRETARIAT	5.6	6.4	5.2	6.1	5.9	6.2	4.8	5.4	5.0	4.8	5.5
APR 1231	5.8	6.1	5.5	6.2	6.1	6.2	4.5	5.0	4.6	5.2	5.5
* CHARGER II	6.5	6.4	5.2	6.2	6.1	6.3	4.2	5.1	4.4	4.7	5.5
* PANTHER	5.9	5.7	5.3	5.7	6.4	6.4	4.9	5.2	4.4	5.0	5.5
APR 1235	5.4	6.7	5.4	5.9	5.8	5.9	4.8	5.2	4.8	5.0	5.5
* CATALINA	5.9	6.1	5.7	6.3	5.4	5.9	4.9	5.4	4.1	5.3	5.5
MP103	5.7	6.5	5.0	6.6	6.1	6.1	4.9	5.1	4.4	4.7	5.5
CAS-LP84	5.8	6.3	5.6	5.5	6.2	5.8	4.9	5.4	4.4	4.6	5.4
* SUPERSTAR (EP57)	6.1	6.9	5.2	5.9	5.5	6.0	4.6	5.0	4.4	4.9	5.4
MEPY	5.6	6.5	5.4	6.1	6.0	5.9	5.1	5.1	4.5	4.5	5.4
* AFFINITY	5.9	6.1	4.9	6.3	5.5	6.0	4.5	5.3	5.0	4.8	5.4
* SKYHAWK	5.6	6.4	5.1	6.1	5.9	6.2	4.9	5.1	4.5	4.3	5.4
WVPB-R-84	5.7	5.9	5.5	5.7	5.6	6.1	4.6	4.9	5.0	4.7	5.4
* PROTYME (ABT-99-4.625)	5.6	6.8	4.9	6.0	5.5	6.5	4.5	4.8	4.6	4.5	5.3
BY-100	5.9	6.3	5.0	5.9	5.6	5.9	4.5	5.4	4.7	4.5	5.3
* ALLSPORT	5.7	6.0	5.3	6.1	5.7	6.5	4.4	4.8	4.6	4.8	5.3
DP 17-9391	6.1	5.7	5.3	5.9	5.2	6.4	4.5	5.3	4.6	4.6	5.3
KOOS R-71	5.6	5.9	5.2	6.0	5.6	6.0	4.4	5.3	4.6	4.8	5.3
EP53	5.3	6.4	5.1	6.1	5.5	5.9	4.5	5.1	4.7	4.8	5.3
LTP-ME	5.9	6.0	4.7	5.7	5.2	6.4	5.1	4.6	4.4	4.6	5.2
* PROSPORT (AG-P981)	5.5	6.0	5.2	6.1	5.6	5.9	4.4	4.9	4.4	4.6	5.2
* EDGE	6.0	5.5	5.0	6.2	5.1	6.1	4.6	4.7	4.8	4.6	5.2
WVPB-R-82	5.9	5.1	4.9	5.9	5.2	6.3	4.4	5.3	4.7	4.5	5.2
PREMIER	5.3	6.1	4.6	5.9	5.3	6.4	4.6	5.1	4.6	4.5	5.2
DP 17-9069	5.7	5.6	4.6	.	5.2	5.8	4.4	5.1	4.5	4.6	5.0
DP LP-1	5.6	5.6	4.0	6.1	5.3	6.1	4.3	4.9	4.2	4.4	5.0
* BUCCANEER	5.5	5.4	4.8	6.0	4.7	5.6	4.5	5.3	4.5	4.3	5.0
APR 1234	5.4	6.0	4.6	6.0	4.8	6.2	3.8	4.9	4.3	4.1	4.9
* YATSUGREEN	5.5	5.2	4.8	5.8	5.3	5.6	4.2	4.5	4.5	4.3	4.9
DP 17-9496	5.1	4.9	3.6	5.2	3.3	5.9	3.5	3.9	4.0	3.7	4.3
* LINN	3.6	2.5	3.1	5.0	1.8	6.0	3.0	2.9	3.0	3.2	3.3
LSD VALUE	1.4	0.8	0.6	1.3	0.9	1.1	0.8	0.8	0.9	0.5	0.3
C.V. (%)	14.8	7.6	6.7	12.8	9.4	11.1	10.2	9.6	12.0	6.4	10.8

\* 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 TEN LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA6	IL1	ME1	MI1	MN1	NJ1	NJ2	NS1	PA1	RI1	MEAN
MACH 1 (ROBERTS-627)	6.7	6.6	8.2	6.7	6.0	6.1	7.0	5.6	7.8	6.8	6.9
APPLAUD (PENNINGTON-11301)	6.7	6.4	8.1	6.7	5.8	6.4	6.6	6.3	7.5	6.8	6.9
PIZZAZZ	6.6	6.4	8.0	6.3	6.0	6.6	6.5	5.2	7.4	6.8	6.8
SR 4220 (SRX 4801)	6.3	6.4	8.3	6.6	5.2	6.0	5.9	6.7	7.9	6.9	6.7
ALL STAR2 (CIS-PR-78)	6.4	6.4	7.9	6.3	5.9	6.3	6.5	5.8	7.8	6.8	6.7
JET	6.8	6.3	8.1	6.5	5.7	5.8	5.8	6.0	7.7	7.2	6.7
CHARISMATIC (LTP 98-501)	6.3	6.3	8.2	6.7	5.6	6.0	6.2	5.4	7.7	7.0	6.7
PINNACLE II (BAR 9 B2)	6.6	6.3	7.9	6.7	5.7	6.2	6.1	5.3	7.3	6.4	6.7
GATOR 3 (CIS-PR-85)	6.5	6.3	8.0	6.5	5.4	6.3	6.1	5.6	7.3	6.8	6.7
KOKOMO (CIS-PR-69)	6.5	6.5	7.8	6.4	5.6	5.8	6.2	5.7	7.5	6.7	6.6
CITATION FORE (PST-2BR)	6.3	6.2	7.7	6.6	5.7	6.0	6.4	5.4	7.4	6.9	6.6
PENTIUM (NJ-6401)	6.5	6.3	7.8	6.6	5.7	6.1	5.9	5.3	7.4	6.8	6.6
SUNKISSED (ABT-99-4.834)	6.5	6.1	8.3	6.5	5.7	6.1	5.9	5.5	7.4	6.3	6.6
AMAZING (B1)	6.6	6.3	7.8	6.5	5.8	6.0	6.4	5.4	7.2	6.4	6.6
SR 4420 (SRX 4820)	6.3	6.2	8.3	6.3	5.7	6.0	5.9	5.4	7.3	7.2	6.6
GRAND SLAM 2L96 (PST-2L96)	6.3	6.6	7.8	6.4	5.7	6.3	5.7	5.4	7.4	6.3	6.6
ARRIVAL (CIS-PR-84)	6.3	6.2	8.0	6.2	5.8	6.1	6.1	6.1	7.4	6.4	6.6
INSPIRE (R8000)	6.3	5.8	8.1	6.5	5.8	5.7	5.9	6.2	7.6	7.1	6.6
BLAZER IV (PICK MDR)	6.4	6.3	8.0	6.7	5.3	6.0	5.8	5.8	7.3	5.8	6.5
DLF-LDD	6.3	6.1	7.9	6.6	5.7	5.7	5.7	5.9	7.5	6.6	6.5
ABT-99-4.560	6.1	6.3	7.8	6.6	5.3	5.5	5.7	5.4	7.8	6.8	6.5
SEVILLE II	6.5	6.1	7.7	6.3	5.4	5.9	5.8	6.0	7.3	7.0	6.5
SR 4500	6.7	6.3	7.8	6.4	5.9	5.7	5.3	6.2	7.3	6.4	6.5
HAWKEYE (SRX 4RHT)	6.2	6.0	8.1	6.4	6.0	5.8	5.4	5.7	7.5	6.8	6.5
EXACTA	6.3	6.7	7.5	6.3	5.2	5.7	5.2	5.0	7.4	7.3	6.4
QUEST II (ABT-99-4.721)	6.1	6.0	7.9	6.4	5.4	5.8	5.7	5.1	7.7	5.9	6.4
ABT-99-4.115	6.2	6.0	8.1	6.2	5.9	5.5	5.7	6.1	7.4	6.2	6.4
MANHATTAN 4 (PST-2CRL)	6.6	5.8	7.8	6.6	5.6	5.6	5.4	5.2	7.6	6.1	6.4
PARAGON	6.3	6.0	7.9	6.4	5.4	5.1	5.6	6.0	7.5	6.7	6.4
DAZZLE (ABT-99-4.724)	6.6	5.9	7.6	6.3	5.2	5.4	5.6	5.4	7.5	6.6	6.4
STELLAR (CIS-PR-72)	6.0	5.8	7.8	6.5	5.8	5.5	5.3	6.7	7.4	6.7	6.3
AFFIRMED	6.3	6.7	7.7	6.4	5.4	4.9	5.0	6.0	7.2	7.0	6.3
PROMISE	6.4	5.9	7.7	6.3	5.1	5.4	5.3	5.9	7.2	7.0	6.3
BRIGHTSTAR SLT (PST-2A6B)	6.3	5.8	7.7	6.5	6.3	5.7	5.2	5.6	7.1	6.0	6.3
CHURCHILL	6.1	6.1	7.8	6.2	5.4	5.3	5.3	6.0	7.2	7.0	6.3
SALINAS (PST-2SLX)	6.4	5.9	7.6	6.6	5.9	5.5	5.1	5.9	7.1	6.6	6.3
NEXUS	6.1	5.6	7.7	6.4	5.4	6.0	5.3	5.0	6.9	6.8	6.3
FIESTA 3	6.3	6.0	7.8	6.4	5.3	5.2	5.3	6.0	7.0	6.9	6.3
PST-2LA	6.5	5.9	7.7	6.6	5.3	5.4	5.1	4.5	7.2	6.4	6.3
TERRADYNE (A5C)	6.5	5.7	7.5	6.4	5.1	5.4	5.2	5.8	7.6	6.2	6.3
ABT-99-4.464	6.1	5.9	7.6	6.2	5.9	5.1	5.2	6.0	7.7	6.2	6.2
PREMIER II	6.0	6.1	7.8	6.4	5.1	5.2	5.0	5.8	7.3	6.3	6.2
PACESETTER (6011)	6.2	5.6	7.5	6.4	5.4	5.5	5.4	5.7	7.2	6.0	6.2
GALLERY (MB 412)	5.9	6.0	7.4	6.4	5.3	5.9	5.4	5.3	6.9	6.5	6.2
PICK PR B-97	5.9	6.0	7.8	6.2	5.8	5.6	4.9	6.2	7.1	7.0	6.2
CABO (CIS-PR-80)	6.4	5.9	7.6	6.4	5.3	5.0	5.3	5.4	7.1	6.5	6.2
ELFKIN	6.3	5.9	7.8	6.4	6.0	5.4	4.7	6.3	7.2	6.0	6.2
SPLendid (MB 411)	6.0	5.7	8.1	6.3	5.8	5.2	4.7	5.4	7.3	7.0	6.2
PST-2JH	6.2	5.7	7.5	6.5	5.8	5.2	4.9	5.4	7.3	6.9	6.2

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) GROWN AT TEN LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA6	IL1	ME1	MI1	MN1	NJ1	NJ2	NS1	PA1	RI1	MEAN
BRIGHTSTAR II	6.4	5.6	7.5	6.3	5.6	5.6	5.2	5.4	6.9	6.5	6.2
BARLENNIUM	6.4	6.2	7.1	6.3	5.6	5.4	4.8	6.0	7.1	6.4	6.2
CALYPSO II	6.6	5.9	7.7	6.4	5.1	4.7	4.8	5.9	7.1	6.7	6.2
PICK PR QH-97	6.1	5.6	7.9	6.3	5.7	5.3	5.0	6.1	7.1	5.9	6.2
PST-2M4	6.2	6.0	7.3	6.4	6.0	5.0	5.0	5.9	7.0	6.5	6.2
COURAGE (MB 410)	6.0	6.1	8.0	6.3	5.5	5.3	4.7	5.2	7.1	6.1	6.2
SUMMERSET (MB 413)	5.8	5.7	7.8	6.1	5.5	5.5	4.8	5.6	7.4	6.5	6.1
RACER II (PICK RC2)	6.1	6.3	7.4	6.3	5.7	5.0	5.2	5.1	6.8	6.6	6.1
MAJESTY	6.3	5.8	7.6	6.3	5.5	5.0	4.9	6.0	7.2	6.0	6.1
RADIANT	6.0	5.8	7.8	6.2	5.6	5.3	4.7	6.2	7.3	6.5	6.1
LS 2100 (PST-2SBE)	6.1	5.7	7.5	6.3	5.3	5.5	4.7	5.6	7.1	6.9	6.1
ABT-99-4.339	6.3	6.1	7.5	6.3	5.4	4.9	4.8	5.5	7.2	6.2	6.1
PST-2RT	6.2	5.7	7.4	6.3	5.6	5.3	4.9	6.3	7.0	6.5	6.1
PALMER III	6.0	5.9	7.9	6.2	5.5	5.0	4.8	5.6	7.1	6.4	6.1
CATALINA II (PST-CATS)	6.3	5.5	7.6	6.3	5.4	4.7	5.0	6.2	6.9	7.1	6.1
ADMIRE (JR-151)	5.9	5.9	7.6	6.3	6.0	4.7	4.8	5.9	7.1	6.9	6.1
MP88	6.2	5.2	7.7	6.3	5.8	5.4	4.7	6.1	7.0	6.4	6.1
MONTEREY II (JR-187)	6.0	6.0	7.4	6.4	5.2	4.9	4.7	6.4	7.1	6.5	6.1
ICON (MB 414)	5.9	5.7	7.7	6.2	5.0	5.2	4.7	5.4	7.0	7.1	6.1
IQ (CIS-PR-75)	6.5	5.4	7.7	6.2	5.5	5.2	5.0	5.3	7.1	5.7	6.1
SECRETARIAT	6.0	6.1	7.2	6.4	5.7	4.7	4.8	6.3	7.0	6.5	6.1
PENNANT II	5.9	5.3	7.3	6.3	5.5	5.3	4.7	6.0	7.4	7.0	6.1
ABT-99-4.965	6.4	5.6	7.6	6.3	5.4	5.1	4.6	4.8	7.2	6.2	6.1
LTP-ME	6.0	5.5	7.7	6.3	4.8	5.4	4.8	4.6	7.1	6.2	6.1
PICK PRNGS	6.1	6.0	7.6	6.3	5.9	4.8	4.6	5.9	6.7	6.3	6.0
CRUISER (ABT-99-4.709)	6.0	5.4	7.8	6.2	5.5	5.3	4.8	5.0	6.8	6.4	6.0
WILMINGTON	6.2	5.3	7.7	6.2	5.3	5.6	4.1	5.6	7.1	6.5	6.0
PST-2CRR	6.0	5.3	7.6	6.3	6.2	4.6	4.7	6.4	7.0	6.9	6.0
PR 1-94 (PICK PR 1-94)	6.4	5.7	7.5	6.1	5.0	5.1	4.7	5.0	7.0	5.9	6.0
PROTYME (ABT-99-4.625)	6.2	5.4	7.6	6.3	5.3	5.2	4.6	5.0	6.8	6.2	6.0
MP107	5.8	5.5	7.5	6.3	5.4	5.1	5.0	6.0	6.7	6.4	6.0
APR 776	6.2	5.9	7.3	6.3	5.1	4.6	4.3	5.4	7.4	6.1	6.0
ASCEND	5.9	5.8	7.3	6.2	5.2	5.0	4.6	5.9	6.9	6.6	6.0
DIVINE	6.0	5.7	7.3	6.4	5.3	4.8	4.5	5.2	7.2	6.2	6.0
MDP	6.2	5.4	7.9	6.2	5.4	4.7	4.5	5.3	6.7	6.8	6.0
ABT-99-4.815	6.0	5.8	7.8	6.3	5.4	4.8	4.2	5.4	6.9	6.4	6.0
SR 4350 (APR 1237)	6.0	6.0	7.1	6.3	5.3	4.4	4.3	6.1	7.2	6.6	6.0
MANHATTAN 3	6.2	6.0	7.0	6.4	5.0	4.6	4.4	6.3	7.0	6.2	6.0
PLEASURE XL	6.0	5.8	7.1	6.3	5.2	4.7	4.3	5.9	7.1	6.5	5.9
PANTHER	5.9	5.5	7.3	6.4	5.4	4.6	4.4	5.8	7.2	6.3	5.9
CHARGER II	6.5	5.8	7.0	6.3	5.4	4.3	4.2	5.8	6.9	7.1	5.9
CATHEDRAL II	6.2	5.4	7.5	6.3	5.7	4.2	4.4	5.9	7.3	5.8	5.9
APR 1231	5.8	6.0	7.2	6.4	5.4	4.8	4.0	5.8	6.8	6.6	5.9
LINE DRIVE	5.8	5.6	7.2	6.4	5.2	4.8	4.4	5.6	7.0	6.1	5.9
CATALINA	6.1	5.6	7.2	6.4	5.7	4.8	4.4	5.2	6.9	6.2	5.9
PEARL II (EPD)	5.9	5.3	7.6	6.4	5.2	4.9	4.1	5.4	6.7	6.7	5.9
PHANTOM	5.9	5.6	7.2	6.4	5.3	4.7	4.2	6.1	6.7	6.0	5.8
RENAISSANCE (APR 1233)	6.1	5.8	6.9	6.2	5.2	4.6	4.5	5.5	6.5	6.6	5.8
APR 1232	6.0	6.2	7.1	6.3	4.9	4.3	4.1	5.5	6.8	6.3	5.8
JR-128	5.8	5.7	7.2	6.2	5.8	4.6	4.3	5.8	6.9	5.9	5.8



TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 GROWN AT TEN LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE B (MEDIUM MAINTENANCE/ATHLETIC FIELD)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	CA6	IL1	ME1	MI1	MN1	NJ1	NJ2	NS1	PA1	RI1	MEAN
CAS-LP84	6.1	5.3	7.4	6.3	5.7	4.3	4.4	5.5	6.7	6.6	5.8
MEPY	5.9	5.3	7.3	6.3	5.2	4.7	4.7	6.1	6.8	5.6	5.8
SUPERSTAR (EP57)	5.9	5.1	7.4	6.2	5.4	5.1	4.0	5.7	6.7	6.5	5.8
EXTREME (JR-317)	5.7	5.7	7.3	6.4	5.4	4.7	4.3	5.3	6.9	5.7	5.8
EP53	6.0	5.0	7.2	6.2	5.3	4.4	4.4	6.8	6.9	6.5	5.8
MP103	6.1	5.6	7.3	6.3	5.2	4.7	4.2	5.6	6.4	6.1	5.8
SKYHAWK	5.9	5.2	7.1	6.4	5.1	5.0	4.0	5.2	6.8	6.0	5.8
PARADIGM (APR 1236)	5.9	5.2	7.0	6.1	5.2	5.1	4.4	5.8	6.3	6.9	5.8
APR 1235	6.2	5.7	7.1	6.1	5.3	4.4	4.0	5.8	6.7	6.4	5.8
SRX 4120	6.2	5.8	7.0	6.3	5.1	4.4	3.8	5.5	6.6	6.2	5.8
ALLSPORT	5.8	5.3	7.2	6.3	5.9	4.5	3.8	6.0	6.9	6.5	5.7
PICK EX2	5.9	6.1	6.9	6.2	5.3	3.8	4.1	6.1	6.5	6.7	5.7
ABT-99-4.600	6.0	5.5	7.3	6.3	5.5	4.4	3.8	5.5	6.7	5.9	5.7
LPR 98-144	5.6	5.4	6.9	6.3	5.4	4.2	4.1	6.0	7.0	6.4	5.7
AFFINITY	6.1	6.0	6.6	6.0	5.3	4.0	4.0	6.2	6.5	7.1	5.7
PROSPORT (AG-P981)	5.7	5.4	7.3	6.2	5.6	4.9	3.8	4.7	6.7	6.3	5.7
PROWLER (APR 777)	5.8	5.6	7.1	6.1	5.6	4.5	4.1	5.3	6.5	6.2	5.7
RACER	5.8	5.5	7.6	6.1	5.1	4.3	4.0	5.3	6.6	5.9	5.7
HEADSTART	5.9	5.4	7.3	6.3	5.1	3.9	4.2	5.4	6.7	5.7	5.7
PASSPORT	6.1	5.2	7.0	6.3	5.6	4.4	4.0	4.5	6.6	5.8	5.6
KOOS R-71	6.1	5.5	6.7	6.2	5.6	4.1	4.0	6.4	6.3	6.4	5.6
BY-100	5.8	5.4	6.8	6.3	5.6	3.8	4.0	5.9	6.7	5.9	5.6
WVPB-R-84	5.8	5.5	6.7	6.3	5.2	3.8	3.9	5.9	6.2	7.1	5.6
PREMIER	5.8	5.2	7.2	6.1	5.7	3.7	3.9	6.2	6.8	5.8	5.6
LPR 98-143	5.8	5.6	6.8	6.0	5.3	3.7	4.0	4.9	6.4	6.5	5.5
EDGE	5.7	5.5	6.7	6.2	5.3	3.6	3.6	5.4	6.5	6.1	5.5
DP LP-1	5.6	5.4	6.4	6.2	5.5	3.7	3.4	5.9	6.5	6.1	5.4
WVPB-R-82	5.3	5.3	6.3	6.2	5.1	3.4	3.5	6.0	6.2	6.5	5.3
YATSUGREEN	5.5	5.5	6.2	6.3	5.5	3.2	3.4	5.7	6.0	6.6	5.3
DP 17-9069	5.9	5.2	6.4	6.0	5.0	3.4	3.5	5.1	6.2	6.3	5.3
DP 17-9391	5.3	5.7	6.1	6.0	5.2	3.8	3.2	5.6	6.1	6.3	5.3
BUCCANEER	5.5	5.4	6.1	5.8	5.0	3.5	3.5	6.2	6.0	6.0	5.2
APR 1234	5.7	5.1	6.4	5.8	5.0	3.5	3.4	5.8	6.2	5.8	5.2
DP 17-9496	4.8	4.6	5.5	5.6	4.8	2.3	2.0	5.1	5.0	5.8	4.4
LINN	4.4	3.2	4.7	4.3	4.4	1.2	1.2	4.5	3.2	4.5	3.3
LSD VALUE	0.7	0.8	0.8	0.5	0.7	0.8	0.8	1.2	0.8	1.2	0.3
C.V. (%)	6.8	8.5	7.2	5.4	8.1	10.5	11.0	13.2	7.0	11.3	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 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 EIGHT LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE C (HOME LAWN)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL2	IN1	MO1	OH1	QE1	WA1	WI1	MEAN
MACH 1 (ROBERTS-627)	7.0	6.9	5.3	4.8	6.5	5.3	7.5	5.9	6.1
GATOR 3 (CIS-PR-85)	7.0	6.7	5.2	5.1	6.4	5.2	7.3	5.7	6.1
DLF-LDD	6.6	6.8	5.4	5.0	6.1	5.5	7.0	6.0	6.0
APPLAUD (PENNINGTON-11301)	6.6	6.7	5.5	5.1	5.8	5.6	7.0	5.9	6.0
PIZZAZZ	7.0	6.7	5.7	4.8	7.0	5.1	7.1	5.7	6.0
ALL STAR2 (CIS-PR-78)	7.0	6.3	5.6	4.9	6.5	5.5	7.1	5.6	6.0
INSPIRE (R8000)	6.8	6.4	5.7	5.0	6.5	5.5	6.9	5.6	6.0
SR 4220 (SRX 4801)	6.9	6.5	5.1	5.1	5.8	5.3	7.1	5.8	6.0
CITATION FORE (PST-2BR)	6.9	6.4	5.4	5.0	6.5	5.2	7.1	5.8	6.0
AMAZING (B1)	6.7	6.2	5.4	5.2	6.3	5.1	7.3	5.7	6.0
SEVILLE II	6.8	6.3	5.5	5.1	6.3	5.5	6.9	5.7	6.0
RACER II (PICK RC2)	7.0	6.7	5.3	5.0	6.1	5.2	6.7	5.7	5.9
CHARISMATIC (LTP 98-501)	6.8	6.5	5.6	4.7	6.4	5.3	7.0	5.5	5.9
HAWKEYE (SRX 4RHT)	6.7	5.9	5.4	5.0	6.2	5.5	7.3	5.5	5.9
PINNACLE II (BAR 9 B2)	7.2	5.8	5.0	5.1	6.2	5.3	7.3	5.7	5.9
AFFIRMED	6.6	6.5	5.2	5.2	5.4	5.6	6.8	5.6	5.9
EXACTA	6.8	6.1	5.5	5.1	6.0	5.3	6.9	5.6	5.9
PENTIUM (NJ-6401)	6.5	6.5	5.5	5.1	6.2	5.1	7.0	5.6	5.9
BLAZER IV (PICK MDR)	7.0	5.8	5.2	4.9	6.5	5.2	7.1	5.9	5.9
PACESETTER (6011)	6.6	6.5	5.3	5.0	6.4	5.5	6.5	5.9	5.9
FIESTA 3	6.6	6.4	5.4	4.9	6.0	5.5	6.8	5.8	5.9
CHURCHILL	6.6	6.5	5.4	5.0	6.2	5.4	7.0	5.4	5.9
ABT-99-4.464	6.7	6.3	5.3	5.2	6.4	5.3	6.7	5.6	5.9
SR 4500	6.5	6.8	5.2	5.1	6.0	5.4	6.5	5.7	5.9
ABT-99-4.560	6.8	6.5	5.3	4.8	6.3	5.2	6.7	5.8	5.9
PREMIER II	6.7	6.7	5.1	4.9	5.8	5.6	6.5	5.5	5.9
BRIGHTSTAR SLT (PST-2A6B)	6.8	5.9	5.2	5.1	6.0	5.3	7.0	5.7	5.9
PST-2LA	7.0	6.2	5.4	4.9	6.4	5.1	6.5	5.8	5.9
GRAND SLAM 2L96 (PST-2L96)	6.8	6.5	5.4	5.0	5.6	5.1	6.7	5.6	5.9
PST-2RT	6.8	6.7	5.4	5.0	6.3	5.3	6.2	5.5	5.9
ARRIVAL (CIS-PR-84)	6.8	6.1	5.2	4.9	6.3	5.4	6.9	5.6	5.9
DAZZLE (ABT-99-4.724)	6.6	6.1	5.5	4.8	5.9	5.3	7.0	5.7	5.9
JET	6.6	6.3	5.2	4.8	6.3	5.5	6.7	5.7	5.9
KOKOMO (CIS-PR-69)	6.7	6.2	5.4	4.7	6.0	5.2	7.0	5.8	5.9
BARLENNIUM	6.7	6.3	5.4	5.1	6.1	5.4	6.7	5.4	5.9
ABT-99-4.115	6.6	6.3	5.2	5.0	6.2	5.5	6.5	5.8	5.8
MANHATTAN 4 (PST-2CRL)	6.7	5.8	5.2	5.3	6.5	5.3	6.9	5.7	5.8
PST-2M4	6.7	6.0	5.6	5.1	6.5	5.3	6.5	5.5	5.8
SR 4420 (SRX 4820)	6.7	6.4	5.3	4.8	6.2	5.2	6.7	5.8	5.8
QUEST II (ABT-99-4.721)	6.6	6.0	4.9	5.3	6.2	5.4	7.0	5.6	5.8
PARAGON	6.8	6.3	5.1	4.6	6.1	5.2	6.9	5.7	5.8
BRIGHTSTAR II	6.6	5.7	5.2	4.9	5.8	5.5	7.2	5.6	5.8
PICK PR QH-97	6.7	5.9	5.1	4.8	6.0	5.3	7.1	5.6	5.8
SUNKISSED (ABT-99-4.834)	6.7	5.6	5.3	4.8	5.9	5.3	7.1	5.7	5.8
LS 2100 (PST-2SBE)	6.6	6.0	5.3	5.0	6.0	5.2	6.9	5.4	5.8
SR 4350 (APR 1237)	6.6	6.6	5.4	5.1	6.1	5.2	6.1	5.4	5.8
CALYPSO II	6.6	6.5	5.0	5.0	6.0	5.3	6.2	5.6	5.8
RADIANT	6.8	5.7	5.4	4.7	5.9	5.2	7.1	5.5	5.8
COURAGE (MB 410)	6.8	6.1	5.3	4.7	6.3	5.3	6.7	5.1	5.8

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) GROWN AT EIGHT LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE C (HOME LAWN)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL2	IN1	MO1	OH1	QE1	WA1	WI1	MEAN
SALINAS (PST-2SLX)	6.5	5.6	5.2	4.8	5.6	5.5	6.9	5.7	5.8
JR-128	6.5	6.2	5.0	4.8	5.9	5.4	6.6	5.6	5.7
PST-2JH	6.7	6.3	5.4	4.8	5.5	5.2	6.2	5.6	5.7
DIVINE	6.6	6.3	5.4	4.8	5.3	5.7	6.1	5.5	5.7
APR 1232	6.8	6.5	5.1	4.7	5.9	5.6	5.9	5.4	5.7
ABT-99-4.339	6.5	6.1	5.1	4.8	5.6	5.5	6.4	5.6	5.7
SPLENDID (MB 411)	6.7	5.8	5.2	4.8	6.3	5.2	6.7	5.6	5.7
WILMINGTON	7.0	5.6	5.3	4.8	5.5	5.3	6.9	5.3	5.7
ADMIRE (JR-151)	6.5	6.1	5.0	5.0	6.0	5.5	6.3	5.7	5.7
MONTEREY II (JR-187)	6.7	6.2	5.1	4.9	4.5	5.6	6.2	5.6	5.7
LINE DRIVE	6.4	6.1	5.0	5.0	5.6	5.5	6.3	5.6	5.7
RACER	6.6	6.3	5.3	4.7	6.1	5.4	6.3	5.2	5.7
APR 1235	6.5	6.3	5.4	4.7	5.7	5.4	6.5	5.2	5.7
MAJESTY	6.5	5.9	5.3	4.8	5.0	5.5	6.5	5.6	5.7
TERRADYNE (A5C)	6.5	5.5	5.1	5.1	6.1	5.3	6.9	5.3	5.7
MANHATTAN 3	6.6	5.8	5.2	4.9	5.6	5.6	6.3	5.5	5.7
ICON (MB 414)	6.8	5.8	5.1	4.9	6.3	4.9	6.8	5.4	5.7
CABO (CIS-PR-80)	6.9	5.4	5.1	4.7	6.2	5.1	7.0	5.6	5.7
PICK PRNGS	6.6	5.8	5.2	4.9	6.0	5.3	6.3	5.6	5.7
ELFKIN	6.6	5.2	5.1	4.9	5.8	5.5	6.6	5.7	5.7
APR 1231	6.5	6.4	5.2	5.0	4.7	5.5	6.0	5.5	5.7
GALLERY (MB 412)	6.6	5.5	5.3	4.8	6.0	5.3	7.0	5.1	5.7
PST-2CRR	7.0	5.5	5.1	4.8	6.5	5.1	6.7	5.3	5.7
IQ (CIS-PR-75)	6.7	5.6	4.9	4.6	6.3	5.1	7.1	5.5	5.7
PR 1-94 (PICK PR 1-94)	6.3	6.0	5.5	4.3	6.0	5.2	7.0	5.3	5.7
STELLAR (CIS-PR-72)	6.6	5.5	5.3	4.4	5.8	5.1	6.9	5.7	5.7
PROWLER (APR 777)	6.3	6.6	5.3	5.0	5.6	5.3	5.6	5.3	5.7
CRUISER (ABT-99-4.709)	6.6	5.9	5.2	4.8	6.0	5.2	6.7	4.9	5.6
ASCEND	6.6	5.9	5.2	4.8	5.9	5.1	6.4	5.4	5.6
PICK PR B-97	6.2	5.8	5.6	4.7	5.5	4.8	7.1	5.3	5.6
CATALINA	6.7	5.3	5.4	4.7	6.0	5.0	6.4	5.7	5.6
PLEASURE XL	6.6	6.2	5.3	4.7	5.6	5.1	6.2	5.2	5.6
CATHEDRAL II	6.5	5.6	5.0	5.1	6.2	4.9	6.4	5.6	5.6
LPR 98-144	6.4	5.9	5.0	4.4	5.8	5.6	6.5	5.4	5.6
PARADIGM (APR 1236)	6.8	5.9	5.0	4.8	5.5	5.0	6.5	5.3	5.6
SECRETARIAT	6.3	6.3	5.1	4.5	5.7	5.7	5.8	5.5	5.6
CHARGER II	6.6	5.7	5.2	4.8	5.8	5.4	6.1	5.4	5.6
ABT-99-4.815	6.6	5.3	4.9	5.0	6.4	5.0	6.6	5.6	5.6
CATALINA II (PST-CATS)	6.4	5.9	5.0	4.7	5.8	5.3	6.3	5.4	5.6
PROMISE	6.7	5.2	5.4	4.6	5.0	5.1	6.9	5.3	5.6
NEXUS	6.5	5.7	4.9	4.6	6.4	5.0	6.8	5.3	5.6
ALLSPORT	6.8	5.5	5.0	4.6	5.8	5.2	6.4	5.4	5.6
RENAISSANCE (APR 1233)	6.6	5.9	5.2	4.5	5.8	5.2	6.2	5.3	5.6
SUMMERSET (MB 413)	6.6	4.9	5.0	4.9	6.3	5.0	7.0	5.3	5.6
ABT-99-4.600	6.5	5.5	5.2	5.0	5.4	5.1	6.1	5.5	5.6
EXTREME (JR-317)	6.3	5.8	5.2	4.6	5.8	4.9	6.5	5.5	5.6
SUPERSTAR (EP57)	6.4	5.4	5.1	4.7	5.8	5.2	6.6	5.3	5.5
SRX 4120	6.3	6.1	5.1	4.8	5.8	5.1	5.7	5.6	5.5
EP53	6.3	5.3	5.3	5.0	6.0	5.1	6.3	5.4	5.5
MEPY	6.4	5.3	4.9	4.7	5.9	5.2	6.5	5.4	5.5

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) GROWN AT EIGHT LOCATIONS IN THE U.S. AND CANADA 1/  
 USING "SCHEDULE C (HOME LAWN)" \*/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IA1	IL2	IN1	MO1	OH1	QE1	WA1	WI1	MEAN
APR 776	6.4	5.6	5.3	4.9	5.9	5.0	6.0	5.3	5.5
PREMIER	6.4	6.0	4.8	4.9	5.8	5.2	5.9	5.4	5.5
PHANTOM	6.7	4.9	4.9	4.7	6.1	5.3	6.5	5.4	5.5
LTP-ME	6.7	5.4	5.0	4.8	5.4	4.6	6.6	5.3	5.5
CAS-LP84	6.8	4.8	4.8	4.7	6.0	5.2	6.7	5.4	5.5
ABT-99-4.965	6.8	5.2	5.0	4.3	6.1	4.9	6.8	5.3	5.5
MP103	6.6	4.7	5.0	4.6	6.0	5.2	6.7	5.5	5.5
PENNANT II	6.9	4.5	5.1	4.6	6.1	5.3	6.5	5.4	5.5
PEARL II (EPD)	6.5	4.8	4.8	4.8	5.8	5.2	6.6	5.6	5.5
PALMER III	6.6	4.9	5.1	4.5	5.7	4.9	6.5	5.7	5.5
MP107	6.8	4.7	4.9	4.7	6.1	5.0	6.4	5.5	5.4
MP88	6.7	4.5	5.0	5.0	6.3	4.5	6.7	5.5	5.4
AFFINITY	6.0	5.9	5.0	4.7	5.2	5.5	5.6	5.5	5.4
PROSPORT (AG-P981)	6.7	5.0	4.7	4.8	6.2	5.0	6.4	5.3	5.4
PICK EX2	6.3	6.1	5.2	4.5	5.1	4.8	5.7	5.4	5.4
PROTYME (ABT-99-4.625)	6.3	5.8	4.9	4.6	5.1	4.8	6.6	5.0	5.4
PANTHER	6.5	4.4	5.1	4.6	6.1	5.0	6.3	5.8	5.4
WVPB-R-84	6.1	5.8	4.9	4.8	4.5	5.1	6.0	5.5	5.4
APR 1234	6.3	6.1	4.9	4.7	5.3	5.1	5.7	5.0	5.4
PASSPORT	6.3	4.8	5.1	4.3	5.7	5.2	5.9	5.7	5.4
EDGE	6.1	5.4	4.8	4.8	5.1	5.5	5.3	5.6	5.4
SKYHAWK	6.6	4.6	5.0	4.4	6.0	5.2	6.2	5.3	5.4
KOOS R-71	6.3	5.4	4.8	4.4	5.0	5.2	5.9	5.4	5.3
MDP	6.5	4.8	4.7	4.5	5.8	4.6	6.6	5.3	5.3
BY-100	6.1	5.4	4.9	4.8	5.4	5.4	5.0	5.5	5.3
HEADSTART	6.4	5.2	4.8	4.4	5.4	4.8	6.1	5.4	5.3
LPR 98-143	6.4	4.9	4.4	4.5	5.8	5.0	6.3	5.5	5.3
YATSUGREEN	5.9	5.5	5.0	4.4	5.1	5.5	4.8	5.6	5.3
WVPB-R-82	6.2	4.9	4.8	4.2	5.0	5.1	5.8	5.5	5.2
DP LP-1	6.4	4.7	4.8	4.5	5.5	5.3	5.1	5.5	5.2
DP 17-9069	6.0	4.8	4.7	4.7	5.0	5.5	4.9	5.5	5.2
BUCCANEER	6.2	5.1	4.8	4.4	4.6	4.9	5.4	5.2	5.1
DP 17-9391	5.6	5.2	4.7	4.5	5.0	4.8	5.0	5.5	5.1
DP 17-9496	5.4	4.0	4.3	4.4	4.4	5.5	3.5	4.7	4.5
LINN	5.0	1.9	3.3	3.5	3.4	5.3	3.1	3.7	3.7
LSD VALUE	0.7	1.1	0.6	0.7	0.7	0.9	0.6	0.5	0.3
C.V. (%)	6.5	12.0	7.7	9.6	7.8	10.3	5.9	5.4	8.6

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 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 FOUR LOCATIONS 1/  
2000-03 DATA

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

NAME	M03	NJ3	NY2	WA4	MEAN	NAME	M03	NJ3	NY2	WA4	MEAN
CITATION FORE (PST-2BR)	5.5	6.1	5.8	5.8	5.8	AMAZING (B1)	5.4	4.6	5.5	5.5	5.3
MACH 1 (ROBERTS-627)	5.4	5.1	5.9	6.0	5.6	IQ (CIS-PR-75)	4.8	5.3	5.6	5.3	5.3
COURAGE (MB 410)	4.8	6.1	5.8	5.4	5.5	ALL STAR2 (CIS-PR-78)	5.0	4.9	5.8	5.0	5.2
MANHATTAN 4 (PST-2CRL)	5.3	5.6	5.5	5.9	5.5	CHARISMATIC (LTP 98-501)	5.4	4.1	5.7	5.4	5.2
RACER II (PICK RC2)	5.3	5.5	5.8	5.2	5.5	JR-128	4.8	5.2	5.5	5.2	5.2
SR 4500	5.0	5.9	5.6	5.4	5.5	PROWLER (APR 777)	4.6	6.3	5.3	4.9	5.2
PENTIUM (NJ-6401)	5.5	5.3	5.8	5.4	5.5	ABT-99-4.115	4.9	4.9	5.6	5.2	5.2
GRAND SLAM 2L96 (PST-2L96)	5.3	5.5	5.7	5.5	5.5	RACER	5.1	4.9	5.6	5.1	5.2
SR 4220 (SRX 4801)	4.9	6.1	5.6	5.3	5.4	ASCEND	4.8	5.5	5.5	4.9	5.2
APR 1232	4.8	6.3	5.7	4.9	5.4	APPLAUD (PENNINGTON-11301)	5.1	4.3	5.8	5.5	5.2
SR 4350 (APR 1237)	5.0	6.2	5.4	5.1	5.4	PREMIER II	4.7	5.1	5.7	5.3	5.2
GATOR 3 (CIS-PR-85)	5.1	5.5	5.5	5.9	5.4	SUMMERSET (MB 413)	4.8	4.9	5.8	5.2	5.2
PST-2JH	5.0	5.8	5.8	5.1	5.4	PST-2M4	5.0	5.0	5.5	5.1	5.2
PACESETTER (6011)	4.7	5.8	5.7	5.5	5.4	PST-2CRR	4.6	5.2	5.8	5.1	5.2
STELLAR (CIS-PR-72)	4.9	6.0	5.5	5.4	5.4	DLF-LDD	5.0	4.3	5.7	5.7	5.2
RADIANT	5.0	5.4	5.6	5.6	5.4	ELFKIN	4.5	5.4	5.5	5.4	5.2
ABT-99-4.560	5.0	6.0	5.6	5.3	5.4	PICK PR QH-97	4.5	4.9	5.7	5.4	5.2
EXACTA	5.2	5.3	5.7	5.3	5.4	SUNKISSED (ABT-99-4.834)	4.8	4.8	5.5	5.4	5.2
BLAZER IV (PICK MDR)	5.1	5.0	5.8	5.7	5.4	PLEASURE XL	5.0	5.3	5.4	4.9	5.2
KOKOMO (CIS-PR-69)	5.0	5.3	5.9	5.3	5.4	SECRETARIAT	4.7	5.2	5.5	5.0	5.2
CATALINA II (PST-CATS)	5.1	5.7	5.4	5.3	5.4	CATHEDRAL II	5.0	4.4	5.6	5.3	5.1
SEVILLE II	5.2	4.8	5.6	6.0	5.4	ARRIVAL (CIS-PR-84)	4.9	4.3	5.6	5.8	5.1
FIESTA 3	5.0	5.1	5.7	5.6	5.4	PROTYME (ABT-99-4.625)	4.7	5.5	5.6	4.5	5.1
PST-2RT	4.8	5.7	5.7	4.9	5.4	NEXUS	5.1	4.5	5.6	5.2	5.1
LS 2100 (PST-2SBE)	4.7	5.9	5.5	5.3	5.3	WVPB-R-84	4.3	5.2	5.7	4.9	5.1
INSPIRE (R8000)	4.8	5.3	5.7	5.5	5.3	JET	4.8	5.1	5.2	5.6	5.1
APR 1235	5.0	6.0	5.4	5.0	5.3	MAJESTY	4.8	4.8	5.5	5.0	5.1
CHURCHILL	5.2	5.3	5.6	5.3	5.3	PENNANT II	4.7	4.3	5.7	5.5	5.1
PARAGON	5.0	5.2	5.7	5.2	5.3	MONTEREY II (JR-187)	4.6	4.6	5.6	5.4	5.1
PIZZAZZ	5.4	4.8	5.7	5.4	5.3	SPLENDID (MB 411)	5.0	4.3	5.6	5.4	5.1
PST-2LA	4.7	5.7	5.4	5.6	5.3	APR 1231	4.7	4.9	5.6	5.1	5.1
DIVINE	4.8	5.8	5.7	4.8	5.3	BARLENNIUM	4.8	5.0	5.4	5.1	5.1
SR 4420 (SRX 4820)	4.9	4.9	5.7	5.8	5.3	MP88	4.4	5.3	5.6	4.8	5.1
ABT-99-4.965	4.8	5.5	5.6	5.3	5.3	PHANTOM	4.4	5.2	5.7	4.7	5.1
QUEST II (ABT-99-4.721)	5.2	4.5	5.9	5.5	5.3	PICK EX2	4.8	4.6	5.7	4.9	5.1
SALINAS (PST-2SLX)	5.0	4.9	5.6	5.5	5.3	CRUISER (ABT-99-4.709)	4.6	4.5	5.8	5.0	5.1
PINNACLE II (BAR 9 B2)	5.2	4.4	5.7	5.8	5.3	WILMINGTON	4.6	4.8	5.5	5.3	5.1
PICK PR B-97	4.8	5.3	5.7	5.4	5.3	PR 1-94 (PICK PR 1-94)	5.1	4.6	5.4	5.1	5.1
LINE DRIVE	4.7	5.5	5.6	5.0	5.3	MANHATTAN 3	4.7	5.0	5.5	4.8	5.1
BRIGHTSTAR SLT (PST-2A6B)	5.1	5.1	5.7	5.1	5.3	ABT-99-4.464	4.8	4.9	5.4	4.9	5.1
ICON (MB 414)	4.9	5.0	5.6	5.6	5.3	CABO (CIS-PR-80)	4.9	4.1	5.6	5.4	5.1
GALLERY (MB 412)	5.0	5.2	5.6	5.3	5.3	MDP	4.5	5.2	5.5	4.6	5.1
DAZZLE (ABT-99-4.724)	4.7	4.9	5.9	5.4	5.3	DP 17-9391	3.9	5.5	5.8	4.7	5.0
BRIGHTSTAR II	4.7	5.3	5.5	5.8	5.3	HAWKEYE (SRX 4RHT)	4.7	4.5	5.4	5.6	5.0
AFFIRMED	5.1	5.1	5.6	5.1	5.3	EP53	4.3	5.3	5.5	4.6	5.0
						ABT-99-4.600	4.6	4.7	5.6	5.1	5.0

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) GROWN UNDER TRAFFIC STRESS AT FOUR LOCATIONS 1/  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	MO3	NJ3	NY2	WA4	MEAN
CALYPSO II	4.4	4.4	5.7	5.4	5.0
PROSPORT (AG-P981)	4.4	5.1	5.5	4.8	5.0
PROMISE	5.1	4.1	5.6	5.0	5.0
CHARGER II	4.8	4.2	5.6	5.0	5.0
LTP-ME	4.3	5.2	5.6	4.7	5.0
PEARL II (EPD)	4.5	4.8	5.5	4.9	5.0
SKYHAWK	4.4	4.7	5.7	4.9	5.0
MEPY	4.6	4.5	5.6	4.7	5.0
PREMIER	4.3	5.1	5.6	4.6	5.0
PALMER III	4.5	4.2	5.6	5.2	5.0
ADMIRE (JR-151)	4.6	4.8	5.3	5.2	5.0
MP107	4.5	4.4	5.6	4.8	5.0
TERRADYNE (A5C)	4.8	4.1	5.4	5.6	5.0
ABT-99-4.339	4.6	4.6	5.6	4.7	4.9
APR 776	4.6	4.6	5.5	5.0	4.9
SUPERSTAR (EP57)	4.5	4.6	5.6	4.8	4.9
PARADIGM (APR 1236)	4.6	4.8	5.5	4.7	4.9
RENAISSANCE (APR 1233)	4.3	4.9	5.6	4.7	4.9
APR 1234	4.5	4.8	5.5	4.5	4.9
HEADSTART	4.5	4.6	5.4	5.0	4.9
PASSPORT	4.6	4.6	5.3	4.9	4.9
DP LP-1	3.8	4.9	5.6	4.9	4.9
ABT-99-4.815	4.9	3.6	5.5	4.9	4.9
EXTREME (JR-317)	4.6	4.2	5.3	5.1	4.9
PICK PRNGS	4.8	3.9	5.4	5.1	4.9
ALLSPORT	4.3	3.9	5.8	4.9	4.9
LPR 98-143	4.6	4.2	5.4	4.8	4.9
MP103	4.3	4.1	5.4	5.2	4.8
AFFINITY	4.5	3.8	5.6	4.8	4.8
SRX 4120	4.3	4.7	5.3	4.8	4.8
KOOS R-71	4.5	3.8	5.7	4.7	4.8
BUCCANEER	4.2	4.6	5.3	4.6	4.8
PANTHER	4.2	3.6	5.7	5.3	4.8
CATALINA	4.5	3.7	5.5	5.1	4.8
YATSUGREEN	4.0	4.6	5.3	4.6	4.7
CAS-LP84	4.2	4.0	5.3	4.7	4.7
BY-100	4.3	3.8	5.4	4.8	4.7
LPR 98-144	4.6	3.5	5.2	5.0	4.6
WVPB-R-82	4.1	3.7	5.6	4.5	4.6
EDGE	4.2	3.7	5.5	4.7	4.6
DP 17-9069	3.9	4.0	5.2	4.7	4.6
DP 17-9496	3.5	3.6	5.3	4.2	4.3
LINN	1.8	1.7	5.1	3.7	3.3
LSD VALUE	0.7	1.9	0.7	0.6	0.6
C.V. (%)	9.4	23.9	8.3	6.9	12.5

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 5.

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

## GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CA6	IA1	IL1	IL2	IN1	KS1	KY1	MD1	ME1	MI1	MN1	MO1	MO3	MT1	NE1
MACH 1 (ROBERTS-627)	7.6	6.9	7.2	8.3	7.6	8.0	8.8	7.9	8.5	6.7	6.0	6.2	4.7	7.0	7.9
TERRADYNE (ASC)	7.3	7.1	6.6	8.1	7.4	8.0	8.7	7.5	7.8	6.7	5.7	6.6	4.7	7.0	7.8
RADIANT	6.3	6.8	6.8	8.3	7.3	7.9	8.4	7.5	8.4	6.7	6.0	6.4	6.0	6.5	7.9
ALL STAR2 (CIS-PR-78)	7.1	7.3	7.2	7.2	7.4	7.6	8.7	7.5	8.4	6.4	6.0	6.2	5.3	6.7	8.3
NEXUS	6.7	7.0	6.7	8.1	7.0	8.0	8.7	7.8	8.3	6.7	6.3	5.8	5.3	7.0	7.7
GALLERY (MB 412)	6.6	6.9	6.8	7.9	7.5	8.0	8.3	7.7	8.2	6.4	6.0	6.3	5.0	6.3	7.3
PIZZAZZ	7.0	7.2	6.5	7.2	7.6	7.6	8.6	7.9	8.2	6.6	6.7	6.6	5.0	6.8	7.9
SUNKISSED (ABT-99-4.834)	7.2	7.3	7.0	7.6	7.4	7.8	8.7	7.7	8.3	6.4	5.7	6.4	5.3	7.2	8.0
CABO (CIS-PR-80)	7.6	7.3	6.8	7.8	7.6	7.8	8.4	7.7	8.2	6.4	5.3	5.9	5.0	6.7	8.0
WILMINGTON	7.0	7.2	6.5	7.9	7.3	7.9	8.4	7.8	8.5	6.6	5.3	6.5	6.0	6.7	7.5
AMAZING (B1)	7.2	7.2	7.2	6.8	7.8	7.4	8.6	7.3	8.1	6.6	6.7	6.6	5.7	6.8	7.8
SUMMERSET (MB 413)	6.0	7.2	6.7	8.3	7.5	7.8	8.7	7.6	8.2	6.3	5.3	6.4	5.0	7.2	7.8
PINNACLE II (BAR 9 B2)	7.3	7.5	7.3	6.9	7.8	7.2	8.6	7.3	8.1	6.4	6.3	6.1	5.3	6.5	7.3
BLAZER IV (PICK MDR)	7.7	7.3	7.0	6.5	7.2	7.3	8.8	7.6	8.5	6.6	5.3	6.3	5.3	7.3	7.6
ABT-99-4.965	7.3	7.2	6.5	7.5	7.5	7.2	8.6	7.6	8.1	6.7	6.0	6.0	5.0	6.5	7.8
PICK PR QH-97	6.3	6.7	6.8	7.9	7.3	7.9	8.1	7.8	8.7	6.4	6.3	6.4	5.3	6.5	7.8
ARRIVAL (CIS-PR-84)	6.7	7.0	6.4	7.2	7.5	7.9	8.8	7.6	8.3	6.6	5.7	6.2	5.7	6.5	8.1
CHARISMATIC (LTP 98-501)	7.3	7.0	6.8	7.1	7.4	7.8	8.4	7.3	8.3	6.6	5.7	5.9	5.3	6.5	7.5
HAWKEYE (SRX 4RHT)	6.9	7.0	7.0	7.7	7.4	7.8	8.7	7.6	8.1	6.4	6.7	6.5	4.7	6.5	7.6
KOKOMO (CIS-PR-69)	7.2	7.0	6.8	6.3	7.5	7.7	8.8	7.5	8.2	6.3	5.7	5.8	5.3	6.7	7.8
GATOR 3 (CIS-PR-85)	6.8	7.2	6.9	8.1	7.1	7.7	8.6	7.2	7.9	6.4	5.7	5.9	5.3	5.8	7.3
APPLAUD (PENNINGTON-11301)	7.1	7.2	6.8	7.5	7.4	7.8	8.4	7.3	8.2	6.4	6.0	6.0	4.7	6.3	7.2
MDP	6.8	6.8	6.5	7.5	7.6	7.8	8.1	7.7	8.1	6.3	5.7	5.8	5.0	6.7	7.6
ICON (MB 414)	6.7	6.7	6.8	8.1	7.1	7.6	8.7	7.6	8.3	6.2	5.3	6.3	5.3	6.7	7.2
SR 4220 (SRX 4801)	7.2	6.8	6.6	7.3	7.3	7.8	8.4	7.3	8.3	6.3	5.3	6.4	4.7	7.3	7.6
PR 1-94 (PICK PR 1-94)	7.2	6.7	6.5	8.0	6.9	7.8	8.0	7.5	8.1	6.2	5.0	5.7	5.7	6.3	7.7
GRAND SLAM 2L96 (PST-2L96)	6.8	7.0	7.1	7.8	7.2	7.8	8.3	7.1	8.0	6.7	6.3	6.3	5.0	6.5	7.4
STELLAR (CIS-PR-72)	6.7	6.9	6.4	6.0	7.2	7.3	8.7	7.2	8.6	6.7	6.7	6.2	5.0	6.0	7.9
JET	7.6	6.8	7.2	7.0	7.5	7.2	8.4	7.3	8.6	6.3	6.3	6.3	5.0	6.7	7.4
IQ (CIS-PR-75)	7.1	6.9	6.8	7.0	7.3	7.8	8.4	7.4	8.0	6.4	5.7	5.7	5.3	6.3	6.8
PROTYME (ABT-99-4.625)	6.8	6.5	6.7	7.2	7.3	7.8	7.9	7.2	8.3	6.6	5.7	6.0	5.0	7.0	7.3
BRIGHTSTAR SLT (PST-2A6B)	7.2	6.6	6.6	6.8	7.2	7.2	8.3	7.3	8.1	6.3	7.0	5.9	5.0	6.7	7.6
CITATION FORE (PST-2BR)	6.6	7.1	6.5	6.1	7.0	7.6	9.0	7.4	8.6	6.4	6.0	6.0	5.3	6.5	7.0
DAZZLE (ABT-99-4.724)	7.4	6.7	6.7	6.8	7.2	7.5	7.8	7.3	8.3	6.4	5.3	6.2	4.7	6.0	7.4
SPLENDID (MB 411)	6.4	7.1	6.6	7.8	7.3	7.6	8.3	7.0	8.4	6.7	6.3	6.1	5.0	7.0	7.1
SR 4420 (SRX 4820)	6.9	6.8	6.7	7.1	7.1	7.6	8.7	7.1	7.9	6.4	6.0	6.0	4.3	6.3	7.4
BRIGHTSTAR II	7.0	6.8	6.6	7.1	7.3	7.7	8.3	7.3	7.6	6.4	5.7	6.1	5.0	6.5	7.3
PICK PR B-97	6.2	6.8	6.6	7.6	7.0	7.6	8.2	7.1	7.5	6.7	6.0	5.8	5.0	6.7	7.3
MANHATTAN 4 (PST-2CRL)	7.7	6.7	6.2	7.3	7.3	7.3	8.6	7.3	7.9	6.3	5.7	6.4	5.3	6.3	7.2
LTP-ME	6.6	6.8	6.6	7.4	7.3	7.3	7.8	7.2	7.5	6.6	5.3	5.9	4.7	6.8	7.2
INSPIRE (R8000)	7.2	6.9	6.6	6.8	7.4	7.4	8.2	7.1	8.5	6.4	6.3	5.8	5.0	6.2	7.2
QUEST II (ABT-99-4.721)	7.2	6.8	6.4	7.1	7.4	7.8	8.0	7.1	8.3	6.4	5.7	6.3	5.0	6.7	7.1
CHURCHILL	6.9	6.8	6.8	6.8	7.0	7.7	8.3	7.3	7.8	6.2	5.7	5.9	5.0	6.3	7.2
SEVILLE II	7.8	6.8	6.5	6.6	7.2	7.4	8.3	7.0	8.2	6.3	6.0	5.8	5.0	6.8	7.3
MP88	6.9	6.6	6.3	6.4	6.8	7.4	8.1	7.3	7.9	6.4	6.3	6.3	5.3	6.8	7.3
PENTIUM (NJ-6401)	7.0	6.8	6.7	6.4	7.4	7.3	7.9	7.0	7.8	6.3	6.0	5.8	4.7	6.3	7.0

TABLE 5. (CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

## GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CA6	IA1	IL1	IL2	IN1	KS1	KY1	MD1	ME1	MI1	MN1	MO1	MO3	MT1	NE1
CRUISER (ABT-99-4.709)	5.9	6.7	6.3	7.5	7.2	7.6	8.0	7.4	7.8	6.7	5.7	6.4	5.0	6.3	7.2
DLF-LDD	7.4	6.8	6.3	6.4	7.2	7.3	7.8	7.1	8.3	6.2	6.0	5.8	4.7	7.0	6.9
PENNANT II	6.6	6.8	6.6	6.5	6.8	7.3	8.0	7.2	6.9	6.3	5.7	6.3	5.3	6.3	7.3
MP107	5.3	6.9	6.5	6.8	7.0	7.6	8.1	7.0	7.8	6.2	6.0	5.8	5.3	6.7	7.3
ABT-99-4.560	6.3	7.0	6.7	6.0	7.1	7.6	8.0	7.1	7.7	6.2	5.7	6.1	5.0	6.3	6.9
PROMISE	7.3	6.8	6.8	6.3	6.7	7.4	8.1	7.2	7.6	6.3	5.7	5.8	5.0	6.7	7.1
PARAGON	7.2	6.8	6.3	5.9	6.4	7.4	8.0	7.3	8.0	6.6	5.7	5.8	4.7	6.8	7.7
PEARL II (EPD)	6.6	6.4	6.3	6.1	7.0	7.0	8.1	7.1	8.1	6.3	5.3	5.7	5.0	6.5	7.2
MP103	6.8	6.5	6.4	7.7	6.9	7.6	7.8	7.0	8.0	6.2	5.7	5.7	5.0	7.3	6.9
PST-2CRR	6.1	7.0	6.2	6.6	7.3	7.4	8.1	7.3	8.0	6.4	6.7	5.8	5.0	6.5	7.1
SUPERSTAR (EP57)	6.6	6.5	6.6	6.3	7.1	7.6	7.9	7.1	8.3	6.6	5.7	5.8	5.0	6.5	7.0
MEPY	5.8	6.1	6.5	7.0	6.7	7.1	8.0	7.1	8.2	6.3	6.3	6.1	5.3	6.8	6.7
CAS-LP84	7.0	6.8	6.5	7.3	7.2	7.3	8.0	7.0	8.1	6.4	6.3	5.8	5.3	6.8	6.9
SALINAS (PST-2SLX)	7.0	6.6	6.3	7.0	7.0	7.4	8.2	7.1	7.9	6.3	6.3	6.1	4.7	6.2	6.4
EXACTA	6.7	6.6	6.9	6.7	7.3	7.2	8.1	7.0	7.7	6.3	5.7	5.4	5.0	6.3	7.0
FIESTA 3	6.6	6.8	6.5	6.0	6.7	7.1	8.0	7.0	8.2	6.3	5.7	5.6	5.3	6.7	7.3
PHANTOM	6.6	6.9	6.8	6.3	6.6	7.6	7.3	6.9	7.1	6.6	5.7	6.0	5.0	6.5	7.2
CATALINA II (PST-CATS)	6.4	6.8	6.5	6.5	7.2	7.3	7.8	7.2	7.8	6.3	5.7	5.9	5.3	6.7	6.4
BARLENNIUM	7.3	6.3	6.6	6.4	6.8	7.4	8.0	7.4	7.8	6.0	6.3	5.6	4.7	6.2	7.2
LS 2100 (PST-2SBE)	7.0	6.8	6.1	5.8	7.0	7.3	7.8	7.0	8.1	6.4	6.0	6.2	4.7	6.8	6.7
SKYHAWK	6.3	6.8	6.5	6.7	6.7	7.3	7.9	7.0	7.3	6.3	5.3	5.8	5.0	6.7	7.0
COURAGE (MB 410)	6.7	6.9	6.9	5.7	6.8	7.6	7.9	7.1	8.3	6.2	5.7	5.8	4.7	6.2	7.1
ASCEND	6.0	6.8	6.6	5.7	6.8	7.0	8.2	7.0	7.7	6.3	6.0	5.5	5.3	6.7	7.4
PACESETTER (6011)	6.3	6.8	6.3	6.0	6.4	7.3	7.8	7.0	7.8	6.2	5.3	6.1	4.7	6.7	6.8
EP53	6.3	6.6	6.6	6.3	6.6	7.1	8.2	6.8	7.3	6.3	5.3	6.0	5.0	6.3	6.5
ELFKIN	7.1	6.3	6.6	5.6	6.8	7.1	8.1	6.9	7.9	6.4	7.0	5.9	4.7	6.0	7.0
PST-2M4	7.1	7.0	6.3	6.0	6.5	7.0	7.9	6.9	7.6	6.4	6.7	5.9	5.0	5.8	6.8
SR 4500	7.1	6.5	6.4	5.7	6.6	7.1	7.8	6.8	7.9	6.4	6.7	5.8	4.7	5.7	7.2
PST-2LA	7.1	7.0	6.3	6.3	6.6	7.2	7.4	6.9	7.3	6.3	5.7	5.8	4.7	6.3	6.7
PROSPORT (AG-P981)	6.1	6.9	6.6	5.3	6.4	7.1	7.1	7.0	7.8	6.2	6.0	5.9	5.0	6.2	6.4
PALMER III	6.0	6.5	6.4	6.2	6.8	7.3	7.8	7.0	7.7	6.1	6.0	5.4	5.0	6.2	6.9
ALLSPORT	5.4	6.7	6.4	5.7	6.6	7.1	7.8	7.0	7.8	6.3	7.0	5.5	5.0	6.5	6.7
ABT-99-4.815	5.7	6.4	6.5	5.8	6.7	6.9	7.7	6.9	8.3	6.2	5.3	5.8	5.0	6.5	6.8
ABT-99-4.115	6.4	6.6	6.4	5.3	6.3	7.1	7.7	6.8	8.0	6.3	6.3	5.8	4.3	6.2	6.8
MAJESTY	7.0	6.4	6.3	5.8	6.8	7.3	7.9	6.9	7.8	6.2	6.0	5.3	5.0	6.0	6.8
PLEASURE XL	6.4	6.4	6.3	5.8	6.6	7.6	7.7	7.0	7.6	6.4	5.7	5.5	5.0	6.3	6.6
ABT-99-4.464	6.8	6.5	6.6	5.7	6.6	7.0	7.4	6.8	7.5	6.1	6.7	5.6	4.7	6.2	6.8
AFFIRMED	6.6	6.8	6.5	5.6	6.6	7.2	7.7	6.9	7.4	6.2	5.7	6.0	4.7	6.3	6.8
PREMIER II	5.9	6.6	6.6	5.0	6.4	7.3	7.6	6.8	7.8	6.2	5.3	5.8	4.3	6.3	6.9
EXTREME (JR-317)	5.7	6.4	6.5	5.8	6.4	7.2	7.6	7.0	7.3	6.2	5.3	5.7	4.3	6.3	6.7
PST-2JH	6.8	6.4	6.5	5.5	6.6	6.9	7.4	6.4	7.1	6.1	6.7	5.3	4.7	6.0	6.9
RACER II (PICK RC2)	5.8	6.8	6.4	5.3	6.4	7.1	7.6	6.4	7.7	6.3	6.0	5.8	5.0	6.2	7.1
CATALINA	6.4	6.7	6.4	5.4	7.2	7.1	7.7	6.8	7.1	6.4	6.7	5.9	4.7	6.3	6.4
ABT-99-4.339	6.1	6.8	6.6	5.7	6.6	7.3	7.6	6.7	7.7	6.2	5.7	5.9	4.7	6.3	6.8
PARADIGM (APR 1236)	6.2	6.8	6.3	5.5	6.7	7.1	7.6	6.6	7.4	6.0	5.7	5.2	5.3	6.0	6.5
LINE DRIVE	6.2	6.6	6.5	5.0	6.7	7.1	7.6	6.8	7.5	6.2	5.3	5.7	4.7	6.3	6.7
MONTEREY II (JR-187)	6.0	6.9	6.3	5.7	6.3	7.3	7.4	6.8	7.6	6.1	6.0	5.4	4.7	6.0	6.4



TABLE 5. (CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	CA6	IA1	IL1	IL2	IN1	KS1	KY1	MD1	ME1	MI1	MN1	MO1	MO3	MT1	NE1
PICK PRNGS	6.9	6.5	6.3	5.6	6.1	6.9	7.8	6.8	7.9	6.2	6.3	5.6	4.3	6.3	6.8
JR-128	5.3	6.5	6.3	4.9	6.8	6.9	7.4	6.6	6.9	6.1	5.7	5.4	4.7	5.7	6.0
DIVINE	6.4	6.4	6.2	4.6	6.4	7.2	7.3	7.0	7.5	6.1	5.3	5.4	5.0	6.5	6.7
RACER	5.9	6.6	6.3	5.2	5.9	7.1	7.4	6.8	7.3	6.3	5.3	5.8	5.0	6.5	7.0
CALYPSO II	6.8	6.4	5.9	5.0	6.5	6.7	7.6	6.9	7.3	6.2	5.3	5.3	4.3	5.8	6.6
MANHATTAN 3	6.1	6.6	6.3	5.5	6.5	7.3	7.7	7.0	7.0	6.1	5.3	5.8	4.7	6.7	6.2
ABT-99-4.600	6.3	6.6	6.3	4.3	6.3	6.8	7.4	6.7	7.5	6.2	6.0	5.7	4.0	5.7	6.8
PST-2RT	6.4	6.8	6.3	4.0	6.2	7.2	7.3	6.3	7.6	6.1	5.7	5.4	4.3	6.2	6.4
ADMIRE (JR-151)	5.8	6.3	6.2	4.5	6.0	7.0	7.6	6.9	7.3	5.9	7.0	5.8	4.3	6.2	6.8
CHARGER II	6.8	6.8	6.3	3.9	6.4	6.7	7.0	6.6	7.1	6.3	6.0	5.3	5.0	6.3	6.8
LPR 98-143	5.7	6.4	6.3	4.1	6.1	6.8	7.6	7.0	7.2	6.1	5.3	5.3	4.7	6.2	6.8
CATHEDRAL II	6.3	6.8	6.0	4.8	5.8	7.2	7.1	6.3	7.6	6.1	6.0	5.8	4.3	6.2	6.3
APR 1235	6.4	6.6	6.3	4.8	6.3	7.1	7.7	6.6	7.3	5.8	5.7	5.6	4.7	5.7	6.3
PANTHER	5.4	6.5	6.4	4.3	6.1	7.1	7.1	6.8	7.3	6.0	5.7	5.8	4.0	5.7	6.1
SR 4350 (APR 1237)	5.7	6.3	6.1	5.3	6.1	6.8	7.6	6.8	6.6	6.1	5.7	5.7	5.3	6.2	6.3
APR 776	6.1	6.3	5.8	4.5	6.3	6.7	7.2	6.3	6.9	6.0	5.7	5.4	4.7	5.7	6.5
RENAISSANCE (APR 1233)	5.6	6.3	6.4	4.3	6.1	6.7	7.6	6.4	6.3	6.0	6.0	5.5	4.3	6.2	6.4
PASSPORT	5.2	6.3	6.1	4.7	6.1	6.8	7.3	7.0	7.3	6.1	6.0	5.1	4.7	5.8	6.4
LPR 98-144	5.1	6.4	6.0	5.3	5.9	7.2	7.6	6.8	7.0	5.9	5.3	4.8	4.0	5.8	6.2
HEADSTART	5.7	6.5	6.3	4.7	6.1	6.3	7.1	6.9	7.1	6.2	5.7	4.9	4.3	5.8	6.6
PROWLER (APR 777)	5.1	6.1	6.3	4.3	6.2	6.6	7.4	6.8	6.8	5.8	6.3	5.8	4.3	6.2	6.5
APR 1232	5.8	6.7	6.4	4.2	5.9	6.7	6.6	6.2	6.9	5.9	5.7	5.3	4.7	5.8	6.0
APR 1231	5.4	6.5	5.8	4.1	6.0	7.2	7.1	6.1	6.8	6.0	6.3	5.7	4.3	6.2	6.5
SECRETARIAT	5.4	6.2	6.3	3.4	6.1	6.7	7.1	6.6	7.2	6.2	6.7	5.2	3.7	5.5	5.9
PREMIER	4.8	6.2	6.1	3.7	6.1	6.9	6.9	6.3	6.6	6.1	6.7	5.3	4.0	5.7	6.3
SRX 4120	5.4	6.4	6.1	3.8	6.1	6.9	7.0	6.4	7.2	6.3	6.0	5.1	3.7	5.8	6.0
PICK EX2	5.0	6.3	5.9	3.1	5.3	6.7	6.9	6.3	7.0	6.0	6.3	4.9	3.7	5.7	5.9
KOOS R-71	5.3	6.0	6.0	2.6	5.9	6.8	6.7	6.4	6.2	5.9	6.7	4.8	4.0	5.5	6.1
WVPB-R-84	5.3	5.9	6.1	2.2	5.8	6.7	7.1	6.7	6.2	6.0	6.7	5.3	4.7	5.5	5.9
APR 1234	5.1	6.4	5.8	3.6	5.5	6.3	6.7	6.0	5.8	5.7	5.7	4.8	4.0	5.3	6.3
AFFINITY	5.2	6.1	6.3	2.3	5.9	5.9	6.4	6.3	6.6	5.9	6.7	4.8	4.7	6.0	6.0
WVPB-R-82	4.2	6.0	5.6	3.5	5.8	6.6	6.7	6.3	6.0	6.1	5.7	4.7	4.0	5.5	6.0
BY-100	5.3	6.2	5.7	3.0	5.3	6.3	7.0	6.1	6.5	6.0	6.7	5.2	4.7	5.7	5.5
EDGE	4.8	6.0	5.8	2.4	5.3	6.3	6.8	5.9	6.6	5.7	5.7	4.8	4.3	5.0	5.8
BUCCANEER	4.1	5.7	5.3	2.5	5.5	6.1	6.3	5.8	6.0	6.1	5.7	4.8	4.0	5.5	5.6
DP LP-1	4.2	6.1	5.3	2.8	5.0	6.3	6.4	5.3	5.9	6.0	5.7	5.1	4.0	5.3	5.8
DP 17-9069	4.7	5.7	5.4	2.5	5.3	6.1	6.3	5.4	5.1	5.7	5.3	4.9	4.0	.	5.1
DP 17-9391	4.3	5.8	4.5	2.4	4.8	6.0	6.0	5.3	5.0	5.8	6.0	4.5	3.3	6.0	5.7
YATSUGREEN	4.2	5.8	5.4	1.3	5.3	6.1	5.9	5.5	5.3	5.6	6.7	4.3	3.0	4.5	5.3
DP 17-9496	3.4	5.3	4.8	1.0	4.6	5.2	5.6	5.1	4.8	5.8	5.3	4.3	3.0	5.0	5.3
LINN	3.0	5.6	4.1	1.1	4.7	4.2	3.6	4.3	4.3	5.4	4.3	3.8	3.0	4.8	4.7
LSD VALUE	1.7	0.9	0.9	1.7	0.9	0.9	1.0	0.7	1.2	0.6	0.9	1.1	0.9	1.3	1.1
C.V. (%)	17.1	10.7	8.9	18.4	8.3	7.9	7.9	6.3	9.9	5.9	9.6	12.4	11.8	12.4	10.2

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 5. (CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	NJ1	NJ2	NJ3	NS1	NY1	NY2	OH1	PA1	QE1	RI1	SD1	UT1	VA1	WA1	WA3	WA4	WI1	MEAN
MACH 1 (ROBERTS-627)	7.4	8.7	7.0	6.3	6.7	6.0	9.0	8.4	7.3	6.3	7.1	6.6	7.8	8.8	8.7	7.7	7.3	7.6
TERRADYNE (A5C)	7.4	8.1	7.3	8.0	6.3	5.7	8.3	7.5	7.3	6.0	7.0	6.3	7.8	8.8	8.9	8.0	7.1	7.4
RADIANT	7.8	7.5	7.7	7.7	6.7	6.2	8.7	7.9	7.3	6.3	7.0	6.7	7.3	8.7	8.7	8.0	7.5	7.4
ALL STAR2 (CIS-PR-78)	7.0	8.6	7.0	7.3	6.0	5.5	8.0	7.7	7.3	6.3	7.0	6.3	7.4	8.8	8.7	8.0	7.2	7.4
NEXUS	7.3	8.1	7.7	6.7	6.7	6.2	8.3	7.8	7.3	7.0	7.0	6.0	7.8	8.6	8.6	8.0	7.0	7.4
GALLERY (MB 412)	7.6	8.1	7.0	8.0	5.3	5.0	8.0	8.3	7.3	6.0	7.3	6.8	7.7	8.7	8.4	8.0	7.1	7.4
PIZZAZZ	7.1	8.3	7.3	7.3	6.3	6.2	8.7	7.8	7.2	6.7	6.9	6.1	7.5	8.5	8.9	7.7	6.8	7.4
SUNKISSED (ABT-99-4.834)	7.0	8.2	7.7	8.3	5.3	5.0	8.0	7.3	7.1	6.0	6.8	6.2	7.8	8.8	8.5	7.7	6.8	7.4
CABO (CIS-PR-80)	6.8	8.3	6.7	7.0	5.3	5.3	8.7	7.8	7.3	6.0	6.8	6.5	7.7	8.6	8.6	8.0	7.3	7.3
WILMINGTON	7.8	7.9	7.7	7.7	4.7	4.7	8.3	8.1	7.0	6.3	6.8	6.2	7.4	8.6	8.8	7.7	7.5	7.3
AMAZING (B1)	7.3	8.5	8.3	7.3	5.0	4.7	8.7	7.7	7.2	5.7	7.0	6.4	7.5	8.7	8.1	7.7	7.1	7.3
SUMMERSET (MB 413)	7.3	7.3	7.3	7.0	6.3	6.0	8.0	7.8	7.2	6.0	7.3	6.3	7.4	8.5	8.4	8.0	7.3	7.3
PINNACLE II (BAR 9 B2)	6.8	8.3	6.7	7.7	7.0	6.3	8.3	7.6	7.3	6.0	7.1	5.8	7.0	8.8	8.6	7.7	7.4	7.3
BLAZER IV (PICK MDR)	6.5	8.3	6.0	7.3	6.0	5.7	8.0	7.1	7.1	6.7	7.3	6.3	7.6	8.5	8.4	8.3	7.4	7.3
ABT-99-4.965	7.6	7.8	7.3	8.0	7.3	6.7	8.3	7.9	7.3	5.7	6.7	6.3	6.8	8.4	8.2	7.7	7.0	7.3
PICK PR QH-97	6.8	7.9	6.7	7.7	6.3	5.8	8.3	7.8	7.2	6.3	7.3	6.0	7.0	8.6	8.6	7.7	6.9	7.3
ARRIVAL (CIS-PR-84)	6.9	8.3	5.7	8.0	4.7	4.5	8.3	7.8	7.1	6.0	7.2	6.6	7.3	8.8	8.2	8.0	7.5	7.3
CHARISMATIC (LTP 98-501)	6.5	8.2	6.7	7.0	7.3	6.7	8.3	7.2	7.1	6.7	6.7	6.7	7.0	8.5	8.4	7.7	7.2	7.2
HAWKEYE (SRX 4RHT)	6.6	7.8	6.0	7.3	5.3	5.2	8.7	7.6	7.2	6.0	6.3	6.2	7.3	8.9	8.0	7.7	7.0	7.2
KOKOMO (CIS-PR-69)	6.7	8.4	7.3	7.3	5.7	5.3	8.3	7.3	7.0	6.3	6.5	6.3	7.3	8.7	8.3	7.3	7.3	7.2
GATOR 3 (CIS-PR-85)	6.7	8.0	6.3	6.7	4.7	4.7	8.3	7.5	7.2	7.3	6.6	6.3	7.6	8.6	8.7	7.7	7.3	7.2
APPLAUD (PENNINGTON-11301)	6.7	8.3	6.0	7.3	7.3	6.7	8.3	7.1	7.2	7.0	6.4	6.5	7.0	8.5	7.9	7.3	6.9	7.2
MDP	6.8	7.7	6.0	6.3	5.7	5.3	8.3	7.1	7.2	6.0	7.4	6.2	7.3	8.4	8.8	7.7	6.9	7.2
ICON (MB 414)	6.7	7.4	5.3	6.7	5.7	5.3	8.7	7.3	7.1	6.7	7.3	6.1	7.1	8.5	8.1	8.0	7.1	7.1
SR 4220 (SRX 4801)	6.3	8.2	6.7	7.3	6.0	5.7	8.3	7.2	7.2	6.3	6.3	6.1	7.5	8.5	7.7	7.0	6.9	7.1
PR 1-94 (PICK PR 1-94)	6.3	7.6	5.7	7.7	6.7	5.8	7.0	7.5	7.3	6.0	6.3	6.1	6.9	8.7	8.9	8.0	7.4	7.1
GRAND SLAM 2L96 (PST-2L96)	6.3	7.0	4.7	6.7	8.0	7.0	8.0	7.5	7.2	6.0	6.6	6.2	6.8	8.4	8.0	7.0	7.1	7.1
STELLAR (CIS-PR-72)	6.8	8.1	6.7	7.0	5.7	5.2	8.0	7.4	7.3	5.7	6.1	6.4	7.2	8.8	8.5	7.7	7.2	7.1
JET	5.9	8.2	5.7	7.0	5.3	4.8	8.0	7.4	7.0	8.0	6.5	5.8	7.3	8.1	7.9	8.0	7.2	7.1
IQ (CIS-PR-75)	6.3	7.3	6.3	6.7	6.0	5.7	8.3	7.3	7.3	5.7	6.4	6.7	7.3	8.4	8.6	7.7	7.4	7.1
PROTYME (ABT-99-4.625)	6.8	7.8	6.3	6.7	6.0	5.7	8.3	7.5	7.2	6.0	6.7	6.0	7.1	8.1	8.6	7.7	7.0	7.1
BRIGHTSTAR SLT (PST-2A6B)	6.4	7.4	6.0	6.3	6.3	5.7	8.0	7.2	7.3	5.7	6.6	5.8	6.8	8.6	8.6	7.3	7.1	7.0
CITATION FORE (PST-2BR)	6.3	7.8	6.7	7.3	5.0	4.7	8.3	7.2	6.9	7.0	6.1	6.3	7.0	8.3	8.3	7.7	7.3	7.0
DAZZLE (ABT-99-4.724)	5.3	7.3	4.3	7.3	7.7	6.7	8.0	7.3	7.1	6.3	6.4	6.3	7.0	8.4	8.3	8.0	7.1	7.0
SPLENDID (MB 411)	5.8	7.3	5.7	7.0	5.0	4.7	8.0	7.2	6.9	6.3	6.9	6.6	6.6	8.4	7.8	7.7	7.3	7.0
SR 4420 (SRX 4820)	6.4	7.8	7.0	6.3	6.3	6.2	7.7	6.8	7.1	6.3	6.0	5.8	7.0	8.3	7.8	8.0	6.8	7.0
BRIGHTSTAR II	6.3	7.3	5.7	6.7	4.7	4.5	7.7	7.2	7.1	6.3	6.9	6.1	7.2	8.6	8.1	7.3	7.0	7.0
PICK PR B-97	6.2	7.6	5.0	7.0	4.3	4.2	8.0	7.5	7.3	6.3	7.2	5.9	6.9	8.5	8.3	7.7	6.8	7.0
MANHATTAN 4 (PST-2CRL)	6.3	7.7	6.0	7.0	3.7	3.7	8.0	7.3	7.2	6.0	6.1	6.0	7.1	8.5	7.8	7.3	7.2	6.9
LTP-ME	5.9	7.1	5.3	6.7	5.7	5.7	7.7	7.3	7.2	5.3	6.4	5.6	7.2	8.4	8.8	8.3	7.0	6.9
INSPIRE (R8000)	5.6	7.1	5.0	7.0	6.0	5.3	8.0	7.0	7.1	6.7	6.5	5.8	6.8	8.4	7.8	7.7	7.2	6.9
QUEST II (ABT-99-4.721)	5.7	7.0	5.3	6.0	5.7	5.3	8.3	7.2	7.0	6.3	6.2	6.0	6.8	8.3	7.7	7.0	7.3	6.9
CHURCHILL	6.0	7.4	7.0	6.3	5.7	5.3	8.0	7.2	7.0	6.3	6.3	6.2	6.7	8.4	7.3	7.7	7.1	6.9
SEVILLE II	5.8	7.1	5.7	6.7	6.0	5.7	8.3	6.9	6.8	6.3	6.0	6.2	7.1	8.3	7.5	7.3	7.0	6.9
MP88	6.0	7.5	6.0	7.7	5.0	4.7	8.0	6.3	7.3	6.0	6.9	5.7	7.4	7.9	8.2	7.0	7.1	6.9
PENTIUM (NJ-6401)	5.8	7.5	5.0	6.0	7.3	6.7	7.7	6.4	7.3	6.3	5.8	6.4	6.9	8.3	7.8	7.3	7.0	6.9

TABLE 5. (CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	NJ1	NJ2	NJ3	NS1	NY1	NY2	OH1	PA1	QE1	RI1	SD1	UT1	VA1	WA1	WA3	WA4	WI1	MEAN
CRUISER (ABT-99-4.709)	5.8	7.3	5.0	5.3	5.0	5.0	8.3	6.9	7.2	5.7	6.4	6.0	6.9	8.3	7.8	7.7	7.0	6.9
DLF-LDD	5.4	7.3	4.3	7.3	7.0	6.0	7.3	6.9	7.1	6.0	6.2	5.8	6.7	8.2	8.8	7.0	6.9	6.9
PENNANT II	5.9	7.0	5.0	6.7	7.3	6.3	7.7	7.1	7.0	6.0	5.9	6.2	6.8	8.1	8.3	7.7	6.9	6.9
MP107	5.7	7.3	5.3	7.0	6.0	5.5	7.3	6.6	7.3	6.0	6.8	6.5	6.9	7.9	8.1	7.7	6.8	6.8
ABT-99-4.560	6.3	6.9	7.0	6.0	5.7	5.2	8.0	7.1	7.1	6.3	6.3	6.0	7.1	7.9	8.3	7.3	7.0	6.8
PROMISE	4.9	7.0	4.7	6.7	7.3	6.7	7.7	6.6	7.0	7.0	6.1	5.8	7.0	8.3	8.8	7.3	6.8	6.8
PARAGON	5.8	7.6	6.3	6.3	5.3	5.3	8.7	6.3	7.0	6.7	6.1	5.5	7.1	8.4	7.7	8.0	6.8	6.8
PEARL II (EPD)	5.4	7.1	5.0	6.7	6.3	5.7	8.7	6.6	7.3	6.0	6.9	5.8	7.2	8.3	8.3	8.3	6.8	6.8
MP103	5.3	7.3	4.7	6.7	5.3	4.8	7.7	6.6	7.0	6.0	6.9	5.8	7.0	7.9	8.3	7.7	6.8	6.8
PST-2CRR	5.7	7.0	5.7	7.7	6.3	5.7	7.7	6.3	7.0	7.3	5.8	5.8	7.1	8.5	7.5	7.3	6.9	6.8
SUPERSTAR (EP57)	5.9	7.3	6.3	6.3	5.0	4.8	8.0	6.9	7.2	6.7	6.3	5.8	6.7	8.3	7.8	7.3	6.6	6.8
MEPY	6.3	7.2	5.3	7.7	4.3	4.0	7.7	7.1	7.2	6.0	7.3	5.4	6.8	8.0	8.6	7.7	6.8	6.8
CAS-LP84	4.8	6.5	3.7	6.7	4.7	4.3	8.0	6.8	7.2	6.0	6.9	5.8	6.8	8.3	8.2	7.7	7.0	6.8
SALINAS (PST-2SLX)	5.4	6.8	5.0	7.3	5.7	5.2	8.0	6.7	7.0	6.7	6.1	5.8	6.8	8.1	7.8	7.7	6.8	6.8
EXACTA	6.0	6.8	6.0	7.3	5.0	5.0	8.0	6.5	7.0	6.0	6.3	6.1	6.5	8.3	7.7	7.7	6.8	6.8
FIESTA 3	5.3	7.0	5.0	7.0	6.3	5.7	7.7	6.9	6.9	7.0	5.8	5.8	6.7	8.1	7.7	8.0	7.0	6.7
PHANTOM	6.0	6.3	6.3	6.7	5.7	5.5	8.0	6.5	7.2	5.0	6.8	6.0	6.8	7.5	7.5	7.3	7.2	6.7
CATALINA II (PST-CATS)	5.5	7.0	5.7	7.3	3.7	3.5	8.3	6.5	7.3	7.0	6.8	5.6	7.0	7.9	7.9	7.3	6.8	6.7
BARLENNIUM	5.3	6.9	6.0	6.7	5.3	4.8	8.0	6.3	7.2	6.0	5.9	5.9	6.7	7.8	7.2	7.7	6.8	6.7
LS 2100 (PST-2SBE)	5.3	6.0	4.7	7.3	4.3	4.2	8.3	6.7	7.0	6.7	6.5	6.2	6.5	8.5	8.1	7.0	6.8	6.7
SKYHAWK	5.4	6.7	4.7	6.3	6.3	5.5	8.0	6.5	7.1	5.7	6.8	5.8	6.6	7.8	7.8	7.7	6.4	6.7
COURAGE (MB 410)	5.4	6.3	4.3	6.3	6.0	5.7	7.7	6.6	7.1	6.3	5.8	5.8	7.0	8.1	7.1	7.3	6.8	6.7
ASCEND	5.5	6.9	5.0	6.7	4.7	4.5	8.3	6.5	7.0	6.0	6.6	5.7	6.5	7.8	8.0	7.0	7.0	6.6
PACESETTER (6011)	4.8	6.8	5.0	6.7	5.7	5.3	7.7	6.4	7.1	5.3	5.9	5.8	7.0	7.8	8.0	8.0	6.9	6.6
EP53	4.8	7.4	5.7	7.3	4.7	4.7	8.3	6.1	7.0	5.7	6.2	5.7	6.8	7.6	7.8	7.0	6.8	6.6
ELFKIN	4.7	6.6	4.3	7.0	5.0	4.8	7.7	6.1	6.9	5.7	5.8	5.8	6.5	8.1	7.3	7.0	6.7	6.5
PST-2M4	4.7	6.7	4.3	6.3	5.0	4.7	7.3	6.1	7.0	6.7	5.8	5.7	6.6	7.9	7.7	7.3	6.7	6.5
SR 4500	4.8	6.3	5.0	6.3	5.7	5.2	7.3	5.9	7.0	6.0	5.7	5.4	6.6	7.8	7.0	7.7	6.8	6.5
PST-2LA	5.0	5.6	4.7	7.0	3.3	3.3	8.0	6.2	7.2	6.3	5.8	5.5	6.4	7.8	8.4	7.7	7.3	6.5
PROSPORT (AG-P981)	5.2	5.9	5.0	7.0	5.0	4.7	8.0	6.4	6.9	6.0	6.0	5.9	6.8	7.8	7.6	7.7	6.6	6.5
PALMER III	4.6	6.8	3.7	6.7	5.7	5.3	8.0	5.6	6.9	5.7	6.0	5.6	6.7	7.7	7.6	6.7	6.8	6.5
ALLSPORT	5.0	6.3	4.0	6.7	7.0	6.2	7.0	5.9	7.0	6.3	5.8	4.9	6.9	7.8	7.4	7.0	6.5	6.5
ABT-99-4.815	4.7	5.5	4.3	6.3	5.0	4.5	8.0	6.4	7.1	5.7	5.8	5.7	6.4	7.9	8.1	7.3	6.9	6.5
ABT-99-4.115	4.9	6.3	3.7	6.0	6.0	5.7	7.3	6.2	6.8	6.0	5.7	5.7	6.6	7.8	7.6	7.0	7.0	6.5
MAJESTY	4.8	6.6	4.0	6.0	3.7	3.7	7.7	6.2	6.9	5.3	5.9	5.8	6.7	7.8	7.9	7.3	7.0	6.5
PLEASURE XL	4.8	5.9	4.0	5.3	4.0	3.7	8.0	6.3	7.2	6.3	6.3	5.9	6.4	7.9	7.4	7.3	6.9	6.4
ABT-99-4.464	5.0	6.2	4.7	5.7	4.3	4.2	7.3	6.3	7.0	6.0	5.8	6.2	6.5	7.8	7.8	7.0	6.8	6.4
AFFIRMED	4.4	6.4	3.7	5.7	4.7	4.5	7.7	5.8	7.1	7.0	5.8	5.9	6.7	8.2	7.4	7.0	6.6	6.4
PREMIER II	5.0	5.8	5.0	6.0	6.7	6.3	7.0	6.0	6.8	6.0	6.0	5.8	6.6	7.9	7.3	7.0	6.5	6.4
EXTREME (JR-317)	4.6	6.4	4.0	7.3	4.7	4.5	8.0	6.2	7.2	5.7	6.3	5.9	6.5	7.4	7.9	7.3	6.9	6.4
PST-2JH	4.7	6.0	4.3	6.3	6.7	6.0	7.3	5.3	6.8	6.0	6.2	5.9	6.5	7.6	7.5	7.3	6.7	6.4
RACER II (PICK RC2)	4.2	4.9	3.7	6.0	6.7	6.0	7.0	6.0	7.0	6.3	5.8	5.8	6.3	8.0	7.6	7.7	6.9	6.4
CATALINA	4.6	5.8	4.0	6.3	4.0	4.0	7.7	5.8	7.0	6.0	5.8	5.7	7.0	7.9	7.2	7.3	6.5	6.4
ABT-99-4.339	4.0	6.1	3.0	5.7	6.0	5.3	7.0	5.7	7.0	5.7	5.6	5.7	6.7	7.6	7.8	6.3	6.7	6.4
PARADIGM (APR 1236)	4.9	5.8	4.7	6.0	5.3	5.0	7.0	5.8	7.1	6.0	5.5	5.5	6.3	7.9	8.2	7.3	6.4	6.3
LINE DRIVE	4.5	6.1	4.3	7.0	5.3	5.0	7.3	6.0	7.0	5.0	5.8	5.4	6.3	7.3	7.2	7.3	6.8	6.3
MONTEREY II (JR-187)	4.3	5.5	3.7	5.7	5.7	5.3	7.7	6.1	7.0	6.0	5.6	5.5	6.6	7.3	7.3	6.7	6.6	6.3

TABLE 5. (CONT'D)

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	NJ1	NJ2	NJ3	NS1	NY1	NY2	OH1	PA1	QE1	RI1	SD1	UT1	VA1	WA1	WA3	WA4	WI1	MEAN
PICK PRNGS	4.3	4.9	3.0	5.7	4.7	4.5	8.0	5.7	6.7	6.0	5.8	5.8	6.3	7.8	7.6	7.7	6.7	6.3
JR-128	4.8	5.2	4.7	6.3	6.0	5.8	7.7	5.4	7.0	5.3	5.8	5.7	6.6	7.8	7.4	7.0	6.5	6.2
DIVINE	4.2	4.3	3.7	6.7	6.7	6.3	7.3	5.6	6.7	5.3	5.4	6.0	6.0	7.2	7.9	7.3	6.5	6.2
RACER	3.7	5.0	2.0	6.0	6.7	6.2	7.3	5.8	6.9	5.0	5.9	5.5	5.9	7.8	7.2	7.0	6.7	6.2
CALYPSO II	4.4	5.3	4.7	5.7	6.3	5.7	7.3	5.6	6.8	7.0	5.5	5.7	5.8	7.4	6.9	6.3	6.2	6.2
MANHATTAN 3	4.3	4.3	3.7	6.0	5.3	4.8	7.3	5.3	6.8	5.3	5.6	4.9	6.5	7.3	7.2	7.0	6.8	6.1
ABT-99-4.600	4.1	5.6	3.3	6.7	5.0	4.8	7.0	4.9	6.8	5.7	5.6	5.2	6.4	7.4	7.6	7.3	6.4	6.1
PST-2RT	4.3	4.3	3.7	6.0	5.3	5.0	7.3	5.3	6.9	6.7	5.5	5.1	6.2	7.8	7.5	8.0	6.6	6.1
ADMIRE (JR-151)	4.0	6.3	3.0	5.7	5.0	4.8	7.3	5.4	6.6	6.3	5.3	5.1	5.7	7.6	7.3	7.0	6.7	6.1
CHARGER II	3.8	4.6	3.3	7.0	6.0	5.7	7.0	5.1	7.0	6.0	5.6	5.3	6.5	7.6	7.3	6.7	6.7	6.1
LPR 98-143	3.7	5.9	2.7	6.7	5.3	5.0	7.0	5.6	6.9	6.0	5.7	5.4	6.1	7.7	7.7	7.0	6.3	6.1
CATHEDRAL II	3.6	5.0	3.0	5.3	5.0	4.5	7.3	5.8	6.9	5.0	5.8	5.3	6.0	7.4	7.3	7.7	6.6	6.1
APR 1235	4.3	4.6	5.0	5.7	4.0	3.8	7.0	5.2	7.0	6.0	5.7	5.3	5.9	7.8	7.3	7.7	6.3	6.1
PANTHER	3.6	5.0	2.0	6.0	6.3	6.3	7.3	5.5	6.6	5.3	5.8	5.3	6.1	7.6	7.0	7.0	6.4	6.0
SR 4350 (APR 1237)	3.7	5.0	2.3	6.0	5.3	5.2	7.7	5.9	7.0	5.7	5.8	4.9	6.0	7.1	7.3	7.0	6.4	6.0
APR 776	4.3	5.6	4.0	6.0	5.7	5.2	7.3	5.7	6.9	6.0	5.5	5.2	6.3	7.1	7.3	6.0	6.0	6.0
RENAISSANCE (APR 1233)	4.3	5.0	4.7	5.3	7.0	6.5	7.0	4.8	6.8	7.0	5.8	5.1	5.8	7.2	7.1	7.0	6.0	6.0
PASSPORT	4.3	4.8	3.7	6.3	5.0	4.5	7.3	5.3	6.8	6.3	5.0	5.0	6.2	7.6	6.6	6.7	6.5	6.0
LPR 98-144	3.4	5.6	2.0	7.7	4.3	4.2	7.0	5.7	6.8	6.0	5.0	5.2	6.3	7.6	6.8	7.3	6.4	5.9
HEADSTART	3.6	4.8	2.7	6.3	4.7	4.7	7.3	5.2	7.0	6.0	5.3	4.8	6.2	7.1	7.4	7.0	6.3	5.9
PROWLER (APR 777)	3.8	4.3	3.7	5.7	5.3	5.0	7.0	4.5	6.8	5.7	5.5	5.1	6.3	7.1	7.3	7.0	6.2	5.9
APR 1232	3.6	4.3	4.0	5.7	6.3	5.7	7.3	4.8	6.8	6.0	5.4	5.4	6.1	7.2	6.9	6.7	6.4	5.9
APR 1231	3.8	3.6	3.0	6.0	5.7	5.7	8.0	4.8	6.8	5.7	5.4	5.3	5.4	7.3	7.1	7.0	6.3	5.8
SECRETARIAT	4.0	4.7	3.7	5.7	6.0	5.7	7.0	4.5	6.3	6.0	5.3	5.2	6.2	7.2	6.8	7.0	6.3	5.8
PREMIER	3.0	5.5	2.7	6.0	6.7	6.2	7.0	4.7	6.5	5.3	5.3	5.0	6.0	6.8	6.3	7.3	6.4	5.8
SRX 4120	3.2	4.3	2.3	6.0	5.7	5.3	6.0	4.3	6.9	5.0	5.0	5.7	5.8	7.1	6.9	6.7	6.2	5.7
PICK EX2	2.8	3.4	2.3	6.0	6.3	5.7	6.3	4.4	6.8	6.0	4.9	5.6	5.4	6.9	6.7	7.0	6.0	5.6
KOOS R-71	2.9	4.1	2.3	6.7	4.3	4.3	6.0	4.3	6.7	5.0	5.1	5.1	6.0	6.7	6.5	7.0	6.0	5.5
WVPB-R-84	2.9	3.8	2.3	5.0	4.7	4.5	6.7	4.4	6.7	5.7	4.9	4.7	5.6	7.1	6.3	6.7	6.2	5.5
APR 1234	2.3	2.5	1.7	5.7	5.7	5.2	6.0	3.8	6.8	5.0	4.8	4.8	6.2	6.8	7.4	7.7	6.3	5.4
AFFINITY	3.2	3.3	2.3	5.3	5.0	4.7	6.0	4.2	6.5	6.0	4.8	5.2	5.2	6.4	6.4	7.0	6.0	5.4
WVPB-R-82	2.3	3.5	1.3	6.3	6.3	5.7	6.7	4.2	6.5	5.7	4.3	5.0	5.2	6.8	6.4	6.7	6.1	5.4
BY-100	2.6	3.4	2.0	5.3	4.3	4.0	6.7	4.3	6.6	5.0	5.0	5.0	5.3	6.1	6.1	6.7	6.3	5.3
EDGE	2.3	2.9	1.7	6.3	5.0	4.7	6.3	4.1	6.6	4.7	4.8	4.7	5.3	6.7	6.2	7.0	6.2	5.2
BUCCANEER	2.7	3.7	2.3	5.3	3.7	3.7	6.0	3.9	6.6	4.7	4.6	5.1	5.7	6.4	6.0	6.3	6.0	5.1
DP LP-1	2.5	2.7	1.7	6.0	5.3	4.8	6.7	3.9	6.4	5.3	4.5	4.8	5.3	5.8	5.8	5.3	6.1	5.1
DP 17-9069	2.5	2.5	2.0	5.3	3.7	3.7	6.3	3.6	6.4	5.3	4.5	4.6	4.8	5.3	6.2	5.7	6.0	4.9
DP 17-9391	2.1	1.7	1.3	5.3	6.3	5.7	6.3	3.2	6.5	5.7	4.7	4.4	5.0	5.8	5.2	5.3	5.8	4.8
YATSUGREEN	2.1	2.1	1.3	5.0	3.3	3.2	6.3	2.9	6.2	5.7	4.4	4.2	5.1	5.5	5.5	5.3	5.8	4.6
DP 17-9496	1.3	1.2	1.0	4.3	5.0	4.8	5.0	3.0	6.3	4.0	3.8	3.4	4.6	4.3	5.0	5.7	5.7	4.3
LINN	1.3	1.2	1.0	4.3	5.7	5.2	4.0	2.9	6.3	3.0	3.5	3.5	4.4	4.0	5.3	5.0	4.8	3.9
LSD VALUE	1.2	1.6	1.6	1.2	2.8	2.3	0.9	1.1	0.5	0.8	1.0	1.3	1.1	1.1	0.9	1.0	0.9	0.2
C.V. (%)	15.6	16.3	21.8	11.6	30.8	28.0	7.0	11.5	4.9	8.2	10.4	13.9	10.5	8.4	7.7	8.5	8.0	11.6

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 6.

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 2000-03 DATA

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

NAME	IA1	IL1	IL2	IN1	KY1	MD1	MI1	MN1	MO1	NE1	NJ1	NJ2	NJ3	NS1	NY1	NY2	PA1	QE1	RI1	SD1	VA1	WA1	WI1	MEAN
STELLAR (CIS-PR-72)	6.3	6.8	5.8	4.9	9.0	6.8	6.6	6.3	7.3	6.6	6.0	7.3	4.7	6.3	6.7	6.8	6.7	2.8	2.3	6.7	6.8	7.0	5.3	6.0
HAWKEYE (SRX 4RHT)	6.5	7.0	5.7	5.2	8.7	6.8	6.8	6.7	7.0	7.3	4.5	7.7	3.3	4.3	7.0	6.8	6.3	3.1	2.7	6.3	7.1	6.3	5.3	5.9
PIZZAZZ	6.7	6.2	5.3	5.3	8.0	6.8	6.9	6.7	7.3	7.3	5.3	7.3	3.7	3.7	6.3	6.5	6.3	2.7	4.7	7.0	7.1	6.0	5.0	5.9
SUNKISSED (ABT-99-4.834)	6.4	7.5	5.7	5.3	9.0	6.6	6.7	6.3	6.3	6.8	4.9	7.3	3.0	4.7	7.0	7.0	6.0	3.0	4.3	7.2	6.5	6.0	5.4	5.9
AMAZING (B1)	6.7	6.7	5.1	4.9	9.0	7.1	7.0	6.7	7.0	6.6	4.8	6.7	2.7	5.0	7.5	7.0	6.3	3.1	4.0	6.2	6.8	7.0	5.2	5.9
DAZZLE (ABT-99-4.724)	6.3	6.0	5.3	5.1	9.0	6.3	6.8	5.3	7.0	6.9	4.5	6.3	3.0	5.7	7.8	7.2	6.0	3.1	3.3	7.5	7.0	6.0	5.2	5.8
SEVILLE II	6.2	6.8	5.8	4.9	8.7	6.7	6.8	5.0	7.0	7.2	5.0	6.7	4.7	5.3	6.7	6.8	6.3	2.8	4.7	6.0	6.6	5.7	5.0	5.8
INSPIRE (R8000)	6.6	6.2	5.0	5.2	8.7	6.8	6.7	6.3	6.7	7.3	4.7	6.7	3.3	4.0	7.0	7.3	6.3	3.1	3.3	6.3	6.8	6.0	4.9	5.8
ALL STAR2 (CIS-PR-78)	6.7	7.0	4.6	5.0	8.7	6.8	6.4	6.7	7.0	6.2	4.6	6.3	4.0	6.0	6.8	6.3	6.7	2.8	4.3	7.5	7.3	6.7	4.8	5.8
PALMER III	6.3	6.5	5.8	5.0	8.7	6.5	6.6	6.0	6.7	6.4	5.7	7.0	3.7	4.3	5.8	7.2	6.0	2.8	4.0	6.5	6.5	6.3	5.3	5.8
SRX 4120	6.3	7.5	4.4	5.2	6.7	6.3	6.6	6.0	6.7	6.3	6.8	7.3	6.7	3.3	6.7	6.7	6.3	2.8	3.7	6.5	5.3	7.0	5.3	5.8
PROMISE	6.5	6.5	4.6	5.3	8.3	6.8	6.5	6.3	6.3	7.1	5.1	7.3	3.0	5.3	6.3	6.5	6.0	2.8	5.0	6.0	6.4	6.3	5.3	5.8
CHARISMATIC (LTP 98-501)	6.8	6.5	4.7	5.0	8.3	6.5	7.2	6.0	6.3	6.8	4.5	7.0	3.7	5.3	6.0	6.8	6.3	2.9	4.3	6.0	6.9	6.3	5.2	5.7
MACH 1 (ROBERTS-627)	6.8	6.5	6.3	5.1	9.0	7.3	7.1	5.7	6.7	5.6	3.8	6.7	2.3	4.0	5.3	7.5	6.0	2.8	4.0	6.0	7.3	6.0	5.2	5.7
GATOR 3 (CIS-PR-85)	6.8	6.2	4.6	4.8	8.0	7.2	6.8	6.0	7.0	6.6	4.1	6.0	3.0	5.3	6.7	7.5	6.0	2.9	4.3	6.3	6.9	6.0	5.0	5.7
YATSUGREEN	5.4	8.0	5.7	5.5	6.0	6.6	6.0	6.7	5.7	6.2	8.4	6.3	8.0	4.3	5.7	6.8	7.0	3.1	2.7	6.3	4.3	6.7	4.8	5.7
QUEST II (ABT-99-4.721)	6.0	6.5	6.0	4.5	8.7	7.1	6.8	5.7	6.7	6.7	4.3	6.0	3.0	3.3	7.0	6.8	6.3	2.7	4.3	6.3	6.9	6.3	5.2	5.7
APPLAUD (PENNINGTON-11301)	6.3	6.0	5.4	4.8	8.0	6.7	6.7	6.0	7.3	6.9	4.1	8.0	3.0	4.7	6.5	7.0	6.0	3.1	4.0	6.2	6.8	6.0	5.2	5.7
CITATION FORE (PST-2BR)	6.4	6.5	4.4	4.9	8.3	6.4	6.8	6.0	6.7	6.1	5.2	7.0	5.0	4.0	7.2	6.8	5.7	3.0	3.0	6.0	7.0	7.0	4.6	5.7
JET	6.3	6.0	5.0	5.2	8.0	6.3	6.7	6.3	6.0	6.7	5.1	6.7	3.7	4.0	7.2	6.7	6.3	2.9	4.0	6.5	6.6	6.0	5.3	5.7
BY-100	5.9	6.3	5.3	5.3	7.0	6.1	6.3	6.3	5.3	6.8	6.7	6.0	5.7	4.3	6.8	7.3	6.7	3.0	3.3	6.0	5.0	7.0	5.0	5.7
BLAZER IV (PICK MDR)	7.0	6.3	4.6	4.9	9.0	6.6	7.0	6.0	6.7	6.7	4.5	6.0	2.7	4.3	7.0	7.2	6.0	3.0	2.7	6.2	6.6	6.3	4.9	5.7
KOKOMO (CIS-PR-69)	6.4	6.2	5.0	5.1	8.3	6.8	6.3	6.0	6.7	6.8	4.3	8.0	2.7	5.0	6.8	7.0	6.7	2.8	3.7	6.0	6.7	6.3	5.0	5.7
ARRIVAL (CIS-PR-84)	6.3	6.0	4.7	5.0	8.3	6.8	6.8	6.0	6.7	6.8	4.3	6.7	3.0	4.3	6.7	7.3	6.3	3.2	3.3	6.0	7.0	5.7	5.0	5.7
TERRADYNE (A5C)	6.1	6.2	5.2	4.8	9.0	6.3	6.5	6.0	7.0	6.6	4.3	4.7	3.7	5.3	6.3	6.3	6.7	3.1	4.0	6.0	7.4	6.7	5.5	5.7
PINNACLE II (BAR 9 B2)	6.9	7.3	5.2	4.8	8.0	6.5	6.9	5.7	6.3	6.8	4.2	5.7	2.0	4.3	6.2	7.3	6.3	2.8	3.3	6.7	6.7	6.3	5.0	5.7
BUCCANEER	6.0	6.3	5.2	5.0	6.0	6.2	6.2	6.7	5.7	6.8	7.8	6.3	7.7	4.0	4.5	6.5	6.7	3.0	2.7	6.3	4.8	6.7	5.0	5.7
RACER II (PICK RC2)	7.2	6.7	4.9	5.0	8.0	6.5	6.6	5.7	6.3	6.6	4.4	7.0	2.7	4.0	7.3	6.7	5.7	3.0	4.0	6.0	5.9	6.7	5.3	5.7
PANTHER	6.3	6.3	5.3	5.0	7.0	5.8	6.5	6.3	6.0	6.6	5.8	7.0	5.0	3.7	6.7	6.8	6.7	2.9	2.3	6.0	6.3	6.7	5.0	5.7
BARLENNIUM	6.7	7.0	5.6	4.9	7.3	6.3	6.3	6.3	6.3	7.0	4.5	5.0	5.0	5.0	5.7	7.0	5.7	3.1	3.7	6.2	6.2	6.3	4.8	5.7
PARAGON	6.4	6.0	4.4	4.9	8.0	6.8	6.7	6.0	6.3	7.2	4.6	6.7	3.3	5.0	6.8	6.7	5.7	3.0	3.7	6.0	6.7	5.7	5.0	5.6
PREMIER II	6.1	7.0	5.2	4.9	7.3	6.4	6.7	6.7	6.7	6.9	5.4	6.3	3.0	4.7	6.0	7.5	6.7	3.0	3.3	6.0	5.9	6.0	4.8	5.6
SR 4420 (SRX 4820)	6.3	6.2	4.9	4.8	8.3	7.1	6.7	6.3	6.7	6.4	5.1	6.3	3.7	5.0	5.3	6.7	6.0	2.9	3.3	6.0	6.4	6.0	5.3	5.6
DIVINE	6.6	6.0	4.4	4.8	8.3	6.3	6.3	5.3	6.3	7.0	5.4	6.0	6.0	3.7	6.7	6.7	5.7	3.0	4.0	6.0	6.0	5.7	5.2	5.6
ABT-99-4.965	6.5	5.8	5.8	4.8	9.0	6.6	6.7	5.7	6.3	5.8	4.3	4.3	3.3	4.3	7.3	6.8	6.7	2.8	3.0	6.0	7.1	6.0	5.3	5.6
ABT-99-4.115	6.5	6.2	5.2	4.7	7.3	5.9	6.9	6.0	6.7	6.3	5.3	6.7	4.3	4.0	6.8	6.8	6.0	2.9	2.0	6.3	6.2	6.7	5.2	5.6
SR 4220 (SRX 4801)	6.5	5.8	5.1	4.6	9.0	6.5	6.7	5.3	7.0	6.1	4.1	6.3	3.0	5.0	6.0	6.8	7.0	2.9	3.7	7.5	7.1	6.7	4.9	5.6
AFFIRMED	6.3	6.3	5.0	4.8	7.7	6.4	6.5	6.0	7.0	6.3	4.4	5.3	3.7	4.7	7.3	7.0	6.7	3.0	3.7	6.0	6.5	6.3	5.0	5.6
PENIUM (NJ-6401)	6.1	6.5	4.6	4.7	8.7	7.1	6.9	6.3	7.0	6.3	4.9	6.3	4.7	3.7	6.2	7.0	6.0	2.8	2.3	6.0	6.3	6.3	4.8	5.6
EXACTA	6.8	6.2	4.6	4.7	7.7	7.0	6.6	6.0	6.7	6.4	4.2	5.7	3.3	4.3	7.3	7.5	6.3	2.7	3.7	6.0	6.6	6.0	5.1	5.6
ABT-99-4.600	5.5	6.5	4.3	5.0	7.3	6.3	6.3	6.7	7.0	6.4	5.9	6.0	4.3	4.0	7.5	7.3	6.3	2.8	4.3	6.0	5.8	6.3	5.0	5.6
FIESTA 3	5.7	6.8	5.2	4.8	8.0	6.5	6.6	6.0	6.7	7.2	4.6	6.3	3.3	4.7	6.7	6.7	5.7	3.0	4.7	6.3	5.8	6.3	5.1	5.6
DP 17-9391	4.8	6.5	5.9	4.8	6.0	6.0	6.4	6.3	5.3	5.8	7.4	7.7	5.7	4.0	7.0	6.7	6.7	2.9	3.0	6.0	4.7	7.0	5.5	5.6
CHURCHILL	6.3	6.2	4.2	4.9	8.3	6.7	6.6	6.7	7.3	6.6	3.9	6.7	3.0	4.3	7.2	6.7	6.7	3.1	3.3	6.5	6.4	7.0	4.9	5.6
KOOS R-71	5.8	6.2	4.2	4.9	7.0	6.5	6.3	5.3	6.0	6.3	6.4	6.0	6.0	5.0	6.8	6.5	6.3	2.9	4.7	6.0	5.4	6.3	4.9	5.6
SECRETARIAT	5.6	6.5	4.7	5.2	7.0	6.1	6.3	6.7	6.0	7.4	5.5	6.7	4.0	4.3	5.8	7.3	6.7	3.2	3.0	6.5	5.8	6.0	4.8	5.6

TABLE 6. (CONT'D)

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 2000-03 DATA

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

NAME	IA1	IL1	IL2	IN1	KY1	MD1	MI1	MN1	MO1	NE1	NJ1	NJ2	NJ3	NS1	NY1	NY2	PA1	QE1	RI1	SD1	VA1	WA1	WI1	MEAN
PST-2RT	6.3	6.3	3.1	4.7	8.0	6.2	6.6	5.3	6.7	6.9	6.3	5.7	6.3	3.7	7.5	7.2	5.7	2.8	3.0	5.8	5.8	6.3	4.8	5.6
ELFKIN	6.4	6.5	5.1	4.3	8.3	6.4	6.7	5.3	7.0	7.3	4.4	6.3	3.7	4.7	6.3	7.0	5.3	2.8	4.3	6.0	5.9	6.3	5.1	5.6
ADMIRE (JR-151)	6.0	7.5	4.6	4.8	8.3	6.0	6.3	5.7	6.7	6.9	5.2	7.0	5.7	4.7	5.8	6.7	5.7	2.9	4.3	6.0	5.7	5.7	5.0	5.6
CHARGER II	6.0	6.5	4.1	5.3	7.3	6.2	6.4	6.0	6.0	6.1	5.9	7.0	5.3	3.7	6.8	6.7	6.7	3.3	3.0	6.0	5.3	7.3	5.0	5.6
CALYPSO II	6.5	6.3	4.3	5.0	7.0	6.7	6.3	5.7	5.7	6.0	5.7	5.7	3.7	5.7	6.8	7.0	6.3	2.8	3.7	6.0	5.5	6.7	5.2	5.6
AFFINITY	5.4	6.8	4.1	5.0	6.3	6.4	6.1	5.7	6.3	6.7	6.6	7.3	6.0	4.7	6.5	6.7	6.3	3.0	5.7	5.8	4.8	6.3	4.8	5.6
LPR 98-144	5.8	6.3	4.1	4.8	7.7	6.5	6.1	5.3	7.0	7.2	5.9	6.0	6.0	4.0	6.0	6.8	6.3	2.8	1.7	6.0	6.2	7.0	4.8	5.6
PICK EX2	6.2	6.8	3.7	4.9	7.0	6.1	6.0	5.7	6.0	6.8	5.9	6.7	6.0	5.0	7.3	6.8	5.3	2.8	3.7	6.5	5.4	6.0	4.9	5.6
LTP-ME	6.3	6.3	5.0	4.4	7.7	6.4	6.4	5.3	6.7	5.4	3.6	5.3	3.3	5.3	7.5	6.8	6.3	2.8	3.3	7.0	7.3	6.0	5.6	5.6
PICK PRNGS	6.5	6.0	4.0	4.8	8.7	6.4	6.7	5.7	6.7	6.7	4.8	6.0	4.3	3.7	6.2	7.3	5.3	2.8	3.0	6.0	6.5	6.3	5.0	5.6
EDGE	5.5	6.5	4.6	4.8	7.0	6.1	6.2	5.3	6.7	6.4	7.2	7.3	6.0	4.3	6.8	6.7	6.3	3.0	3.3	5.8	4.7	6.3	4.9	5.6
PST-2CRR	6.7	5.7	3.8	4.8	7.7	6.6	6.8	6.3	6.3	6.2	4.3	5.7	4.0	4.0	7.3	7.2	6.3	2.9	4.0	6.0	6.6	5.7	4.8	5.5
PICK PR QH-97	7.0	6.2	5.0	4.5	9.0	6.5	6.7	5.7	6.3	5.9	4.0	4.7	2.7	4.7	6.0	7.0	5.7	2.9	3.7	6.7	6.6	5.3	5.1	5.5
DLF-LDD	6.3	5.8	4.1	4.9	9.0	6.6	6.7	6.0	7.0	5.6	4.3	7.0	3.0	4.7	6.0	7.2	5.7	2.9	4.7	6.2	6.8	5.7	4.8	5.5
ABT-99-4.815	6.4	6.5	4.7	4.6	7.7	6.2	6.6	4.7	7.0	6.1	4.4	7.0	3.7	4.3	7.7	6.7	5.7	2.8	4.3	6.3	6.4	6.0	4.6	5.5
ABT-99-4.464	6.3	6.2	4.7	4.7	8.0	6.1	6.5	5.7	6.7	6.3	4.3	6.0	3.0	5.0	6.8	6.8	6.3	3.2	3.7	6.2	6.3	6.0	4.9	5.5
SR 4500	6.4	5.8	4.7	4.6	7.7	6.5	6.6	6.0	6.7	7.2	4.5	7.3	3.0	4.3	6.0	6.3	6.3	3.1	4.3	6.3	5.8	6.0	4.8	5.5
PENNANT II	6.4	6.2	4.8	4.6	8.3	6.7	6.8	5.3	6.3	6.7	4.3	4.3	3.3	4.3	6.7	6.7	6.0	2.6	4.0	6.0	6.7	5.3	4.8	5.5
WVPB-R-82	5.7	6.2	4.2	4.5	7.3	5.8	6.2	6.0	6.0	6.8	6.2	5.3	7.0	4.3	7.3	6.7	6.0	3.0	4.7	6.5	4.8	5.7	4.8	5.5
BRIGHTSTAR SLT (PST-2A6B)	6.6	6.0	4.0	4.5	9.0	6.4	6.5	6.3	6.7	6.8	3.8	5.0	4.7	3.3	6.3	7.2	5.7	2.9	3.3	6.3	6.8	5.7	4.8	5.5
PROSPORT (AG-P981)	6.4	6.5	4.8	4.3	7.7	6.5	6.2	5.3	6.7	5.9	5.0	4.3	5.0	3.7	7.0	7.0	5.7	2.8	3.7	6.0	6.4	6.3	4.7	5.5
PACESETTER (6011)	6.2	6.3	3.4	4.3	8.0	6.4	6.9	6.0	7.0	6.4	4.6	6.0	3.3	3.7	7.2	7.0	5.7	2.9	3.7	6.0	6.7	6.0	5.0	5.5
JR-128	6.2	6.7	4.7	4.3	8.0	6.4	6.4	5.7	5.7	7.0	4.8	5.7	4.0	4.0	5.0	6.8	5.7	3.0	4.0	6.0	6.1	5.3	5.2	5.5
WILMINGTON	6.5	5.7	3.3	4.8	9.0	7.1	6.6	5.7	7.0	5.8	3.9	2.7	3.7	3.3	7.3	7.0	5.3	3.2	4.0	6.2	7.4	5.7	4.5	5.5
CRUISER (ABT-99-4.709)	6.7	6.0	4.3	5.1	8.0	5.8	6.6	5.7	6.7	6.7	4.3	5.7	3.0	3.3	7.3	7.3	5.3	2.7	3.0	6.0	6.8	5.7	4.7	5.5
MAJESTY	6.1	6.0	3.7	4.8	8.7	6.4	6.5	5.3	7.0	7.2	4.5	4.7	4.7	4.3	6.3	6.7	5.7	2.8	4.0	6.0	6.3	6.0	4.8	5.5
PASSPORT	6.2	5.7	4.7	4.9	6.0	6.3	6.1	5.3	6.7	6.4	5.7	6.0	5.7	3.3	6.7	6.8	5.7	3.0	1.7	5.8	5.8	5.7	4.8	5.5
SUPERSTAR (EP57)	6.4	6.0	3.7	4.8	8.0	6.1	6.4	5.7	6.7	6.2	4.8	4.7	4.7	5.7	6.3	6.7	6.3	2.7	3.0	6.3	6.3	6.0	5.0	5.5
WVPB-R-84	5.3	6.5	3.7	4.7	7.0	6.0	6.4	5.3	6.7	6.1	6.5	4.3	6.3	4.3	7.7	6.5	6.3	2.7	3.7	6.0	5.2	6.0	5.1	5.4
ABT-99-4.560	6.1	6.3	3.7	4.5	7.7	6.5	6.8	5.0	6.7	6.4	4.3	5.0	2.7	4.3	6.5	7.2	6.0	2.8	2.3	6.5	6.7	6.7	5.2	5.4
MANHATTAN 4 (PST-2CRL)	6.3	6.0	3.7	4.3	8.0	6.4	6.5	6.3	6.7	6.0	3.9	6.3	2.7	4.0	8.0	7.2	5.7	2.8	3.0	6.0	6.9	6.3	4.9	5.4
SUMMERSET (MB 413)	6.7	5.8	5.3	4.3	8.7	6.5	6.3	5.7	6.3	6.2	3.9	4.7	3.0	3.7	6.8	6.7	5.3	2.7	3.7	6.0	7.0	6.3	4.6	5.4
LPR 98-143	6.1	6.3	3.6	4.6	8.0	6.5	6.3	5.3	6.3	7.2	5.5	3.7	4.0	2.3	5.8	7.0	6.0	2.7	4.0	6.0	6.0	6.3	4.8	5.4
NEXUS	6.5	6.2	4.1	4.1	9.0	6.9	6.6	5.3	6.3	5.7	4.3	4.3	3.7	3.0	6.2	7.0	4.3	2.8	4.3	6.2	7.3	5.3	4.7	5.4
MANHATTAN 3	5.8	5.8	3.0	4.8	8.0	6.5	6.5	6.0	6.0	6.2	5.0	5.3	4.7	3.7	6.5	6.7	6.0	2.6	4.0	5.8	6.5	5.7	5.2	5.4
PST-2M4	5.8	5.5	3.3	4.3	8.0	6.1	6.4	6.0	7.0	6.7	5.1	6.0	2.7	4.0	7.5	6.8	5.3	2.9	3.3	6.5	6.1	6.0	5.2	5.4
RACER	6.4	6.5	4.1	5.1	8.0	6.1	6.4	4.7	6.3	6.6	4.2	4.0	4.3	4.7	6.3	6.7	5.7	3.0	3.3	6.0	5.8	6.3	4.7	5.4
ALLSPORT	6.3	6.0	3.9	4.8	8.0	5.8	6.6	6.0	6.7	6.0	4.6	4.7	3.7	3.7	7.2	6.8	5.7	2.8	3.0	6.0	6.4	5.3	4.9	5.4
MP88	6.3	5.2	4.1	4.3	8.3	6.4	6.5	5.0	6.7	6.3	3.8	3.7	4.0	6.0	7.8	7.0	5.7	2.6	3.7	6.0	6.6	5.7	4.8	5.4
MONTEREY II (JR-187)	6.6	5.8	3.8	4.7	8.0	6.1	6.4	4.7	7.0	7.4	4.3	5.0	3.0	3.7	5.5	7.0	6.0	3.0	3.3	6.0	6.1	5.3	4.9	5.4
PST-2JH	6.0	6.3	3.6	4.4	7.3	6.6	6.3	5.7	6.0	6.3	4.8	6.7	4.7	3.7	6.5	7.0	6.0	2.9	3.7	6.0	5.9	6.0	4.5	5.4
RADIANT	7.0	5.7	4.6	4.6	8.3	6.3	6.3	5.0	7.0	6.4	3.3	4.7	2.0	4.0	6.5	6.7	5.3	2.8	4.0	6.5	7.3	5.0	4.7	5.4
GRAND SLAM 2L96 (PST-2L96)	6.3	6.0	3.9	4.7	9.0	6.4	6.7	5.7	6.7	6.0	3.7	5.3	3.7	4.3	6.3	6.5	5.7	2.7	3.7	6.0	7.0	5.3	4.7	5.4
ABT-99-4.339	5.7	6.5	3.8	4.8	8.3	6.3	6.3	5.7	6.0	6.3	4.8	6.3	3.7	4.0	5.8	6.5	6.3	2.8	3.7	6.0	6.1	6.7	4.9	5.4
PREMIER	5.4	6.7	3.4	4.8	7.0	6.0	6.3	6.0	7.0	6.7	5.7	5.3	4.7	3.7	6.5	6.5	7.0	2.7	2.7	6.3	5.8	6.0	4.4	5.4
IQ (CIS-PR-75)	6.2	6.2	4.8	4.6	8.7	6.7	6.5	5.3	6.3	5.6	3.0	5.3	2.3	4.3	6.7	6.7	5.3	2.8	4.0	6.8	7.1	5.3	4.7	5.4
DP LP-1	6.3	6.3	4.9	4.8	7.7	5.7	6.3	5.3	5.3	6.1	5.1	4.3	4.7	4.7	7.3	6.8	6.0	2.8	3.7	6.0	4.8	5.7	4.7	5.4

TABLE 6. (CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	IA1	IL1	IL2	IN1	KY1	MD1	MI1	MN1	MO1	NE1	NJ1	NJ2	NJ3	NS1	NY1	NY2	PA1	QE1	RI1	SD1	VA1	WA1	WI1	MEAN
GALLERY (MB 412)	6.6	6.2	3.6	4.3	8.3	6.8	6.2	5.3	7.0	6.3	3.6	4.7	2.3	3.3	5.8	7.0	5.3	3.0	5.3	6.0	7.2	5.7	4.7	5.4
HEADSTART	6.4	5.8	4.8	4.7	7.0	6.8	6.1	5.3	6.3	6.8	4.2	5.3	3.0	3.3	5.8	6.5	6.0	2.7	4.0	6.0	5.8	6.3	4.8	5.3
ASCEND	6.3	6.5	3.2	4.5	8.0	6.8	6.6	5.0	6.7	6.8	4.0	4.3	4.0	4.0	7.0	7.0	6.0	2.5	3.7	6.0	6.0	6.0	4.2	5.3
SPLENDID (MB 411)	6.7	5.7	3.6	4.5	8.3	6.2	6.5	5.0	6.0	7.4	3.5	4.0	3.3	3.0	6.8	7.2	5.7	2.8	3.7	6.0	6.8	5.3	4.6	5.3
APR 776	5.9	5.8	3.7	4.8	8.0	6.0	6.3	5.7	6.7	7.0	4.4	5.7	4.0	4.0	6.2	7.0	6.0	2.8	2.3	5.8	6.0	5.7	5.0	5.3
CATALINA	6.2	5.7	2.8	4.8	7.7	6.3	6.6	5.0	6.3	6.2	5.1	4.3	4.7	4.3	7.2	6.8	5.3	2.8	2.7	6.0	5.8	5.7	4.8	5.3
DP 17-9496	4.1	6.5	3.7	5.0	6.0	5.5	6.3	6.7	5.0	5.0	8.3	7.0	8.0	4.3	6.3	6.2	8.3	3.1	3.0	6.0	3.9	7.0	4.7	5.3
LINE DRIVE	6.2	6.3	2.7	4.8	8.0	6.0	6.2	5.3	6.7	6.1	4.6	5.7	4.7	3.0	7.5	6.8	6.0	2.8	3.0	6.0	6.3	5.7	4.7	5.3
EP53	5.8	6.3	4.1	4.9	8.0	5.7	6.3	5.0	6.3	6.6	4.3	5.0	4.0	4.7	6.8	6.2	6.3	2.7	5.3	6.0	5.9	5.7	4.6	5.3
ICON (MB 414)	7.0	6.2	4.3	4.4	8.0	6.1	6.0	4.7	6.7	6.3	3.9	4.0	2.3	3.0	6.0	7.3	5.0	2.8	3.3	6.0	6.8	5.3	4.6	5.3
COURAGE (MB 410)	6.7	6.5	3.1	4.6	8.0	5.9	6.5	5.3	5.7	6.7	4.6	5.3	3.0	2.7	6.5	7.0	5.0	2.8	3.0	6.0	6.2	5.7	4.6	5.3
MP107	6.6	6.2	4.0	4.6	8.0	6.0	6.3	4.7	6.3	6.2	3.5	3.7	3.3	5.0	6.7	6.8	5.3	2.7	2.3	6.0	6.9	5.7	4.7	5.3
PARADIGM (APR 1236)	6.8	6.2	3.0	4.3	8.3	6.2	6.3	5.0	6.3	5.6	4.3	3.7	4.3	5.0	6.2	6.7	4.7	3.0	2.3	6.0	6.3	5.7	5.1	5.3
DP 17-9069	5.3	6.0	5.2	4.8	7.0	5.9	5.8	5.0	5.7	5.9	5.3	4.3	6.3	3.0	6.8	6.2	6.0	3.0	4.0	6.2	4.8	5.7	5.0	5.3
CABO (CIS-PR-80)	7.0	6.2	3.2	4.6	8.0	6.5	6.4	5.3	7.0	5.7	3.3	5.0	1.3	4.3	5.8	6.7	5.7	2.8	3.7	6.0	7.2	5.0	4.5	5.3
EXTREME (JR-317)	6.2	6.2	3.3	4.9	8.3	6.3	6.4	5.0	6.3	6.7	3.6	4.3	4.0	3.3	6.8	6.5	5.0	2.8	3.3	6.0	6.4	5.0	4.5	5.3
BRIGHTSTAR II	6.4	5.7	2.4	4.3	8.3	6.4	6.5	5.0	6.0	6.4	4.0	4.0	3.7	3.0	7.8	7.0	4.7	3.1	3.7	6.0	6.6	5.3	4.3	5.3
PROTYME (ABT-99-4.625)	6.2	6.3	4.3	4.3	8.0	5.9	6.8	6.0	7.0	5.8	3.3	3.7	2.3	3.3	7.0	6.7	5.7	2.8	1.3	6.0	6.9	6.3	4.8	5.3
MP103	6.7	5.7	5.2	4.5	8.0	6.0	6.3	4.3	6.7	5.9	3.0	3.0	3.0	4.7	6.7	6.3	4.3	2.9	3.3	6.0	6.8	5.7	4.7	5.2
PEARL II (EPD)	6.2	6.0	3.3	4.1	8.0	6.6	6.6	5.0	6.7	6.7	3.3	3.0	3.0	3.7	6.2	6.8	5.0	2.8	4.0	6.0	6.8	5.0	5.0	5.2
APR 1235	5.7	6.0	3.6	4.6	8.0	6.4	6.2	5.0	6.3	6.1	4.5	2.7	4.3	3.7	6.2	7.0	5.7	2.8	4.0	6.0	6.2	5.7	4.5	5.2
PLEASURE XL	5.9	5.8	3.6	4.7	8.0	5.8	6.7	4.7	6.7	6.0	3.8	3.0	3.7	3.7	6.8	7.2	6.0	2.8	4.3	6.0	6.4	4.7	4.5	5.2
APR 1232	6.4	5.7	3.8	4.4	7.3	5.4	6.1	5.0	6.3	6.1	4.0	4.0	3.7	4.3	6.7	6.7	5.7	3.2	4.3	6.2	5.8	6.3	4.7	5.2
PR 1-94 (PICK PR 1-94)	6.3	5.8	3.6	5.1	8.0	6.5	6.4	5.0	6.3	6.3	3.3	3.0	2.3	3.7	5.2	6.8	6.0	2.8	1.7	6.0	6.8	6.3	4.6	5.2
PHANTOM	6.4	6.2	3.0	4.4	8.0	6.3	6.3	4.7	6.0	5.9	4.1	3.7	3.0	2.7	7.2	6.5	5.7	2.8	3.3	6.0	6.7	5.3	4.6	5.2
MEPY	6.5	5.7	3.6	4.5	8.0	6.3	6.4	4.7	7.0	6.1	3.3	3.7	2.3	5.0	6.3	6.5	5.3	2.7	3.7	6.0	6.8	4.7	4.6	5.2
CATHEDRAL II	6.3	5.8	2.4	4.5	7.0	6.0	6.3	5.3	6.7	6.6	3.8	5.0	3.3	3.3	7.0	7.0	6.3	2.7	3.7	6.0	6.0	5.3	4.3	5.2
CATALINA II (PST-CATS)	6.0	6.2	3.3	4.5	7.7	6.5	6.6	5.0	6.7	5.2	3.3	5.0	2.0	4.0	6.3	6.7	5.0	3.2	3.0	6.0	6.4	5.0	4.9	5.2
LS 2100 (PST-2SBE)	6.0	6.2	2.6	4.1	8.0	6.5	6.4	5.3	6.3	6.0	3.9	4.3	2.7	4.0	6.5	6.8	4.7	2.9	4.3	6.0	6.3	5.0	4.7	5.1
PROWLER (APR 777)	5.6	5.8	2.4	4.7	8.0	6.4	5.8	5.7	6.3	6.2	5.1	3.0	5.7	3.3	6.2	6.8	5.7	2.5	3.3	5.8	5.9	5.0	4.4	5.1
CAS-LP84	6.5	5.7	4.4	4.2	7.7	6.3	6.5	4.7	6.3	6.0	2.8	3.7	2.7	3.7	6.2	6.5	5.0	2.7	3.7	6.0	6.6	4.7	4.5	5.1
LINN	4.3	6.3	5.9	5.0	5.0	5.2	5.2	6.7	5.7	3.8	8.0	8.3	7.0	3.3	5.8	5.7	8.0	2.7	2.3	6.2	3.5	5.0	4.3	5.1
APR 1234	5.4	6.0	3.1	4.8	7.3	5.9	5.9	6.0	6.7	5.4	5.3	4.3	3.7	3.3	6.0	6.5	6.0	2.8	3.3	6.0	5.2	5.7	4.8	5.1
SALINAS (PST-2SLX)	6.3	5.8	2.1	4.7	8.0	6.3	6.4	5.0	6.3	5.8	3.1	4.0	2.7	3.7	6.8	7.2	4.7	2.8	3.0	6.0	6.7	4.3	4.8	5.1
PST-2LA	6.2	5.5	2.7	3.7	7.7	6.3	6.5	5.7	6.0	5.9	3.8	4.7	2.7	3.3	6.8	6.8	5.0	2.9	3.0	6.0	6.4	5.3	4.7	5.1
SR 4350 (APR 1237)	5.8	5.3	2.4	4.6	8.0	6.1	6.5	4.7	6.7	6.6	2.5	3.3	2.7	4.7	7.5	7.0	5.0	3.0	2.7	6.0	6.2	4.7	4.9	5.1
PICK PR B-97	6.2	5.8	2.7	4.5	9.0	6.3	6.5	5.0	6.7	5.9	3.0	2.3	2.3	3.7	6.0	6.3	5.7	2.8	2.7	6.0	6.9	5.0	4.6	5.1
RENAISSANCE (APR 1233)	5.8	6.0	2.8	4.3	8.0	6.4	6.1	4.7	7.0	5.7	4.3	3.3	4.0	3.7	6.2	6.5	5.7	2.6	3.7	6.0	5.8	5.7	4.4	5.1
MDP	6.2	5.7	3.4	4.1	8.0	5.8	6.2	4.7	6.3	6.1	2.6	2.3	2.3	4.3	6.5	7.2	5.7	3.0	3.3	6.0	7.0	4.7	4.6	5.0
APR 1231	5.8	5.7	3.0	4.4	7.0	6.2	6.0	5.3	6.0	5.7	3.3	1.7	2.7	4.7	6.8	7.2	5.7	3.0	3.7	5.7	6.0	5.7	4.7	5.0
SKYHAWK	6.0	5.7	2.9	4.4	8.0	6.1	6.3	4.3	6.7	6.1	2.5	1.0	3.3	4.0	6.0	6.8	5.7	2.7	3.7	6.0	6.2	5.0	4.6	4.9
LSD VALUE	1.4	1.2	2.2	1.1	0.6	1.4	0.9	1.2	0.9	1.7	1.7	1.9	2.1	1.6	2.1	0.9	1.1	0.7	1.6	0.8	1.0	1.2	0.9	0.4
C.V. (%)	14.5	12.7	32.8	20.4	4.9	13.5	9.3	13.1	8.8	16.8	23.1	21.9	32.9	23.6	20.0	8.0	11.1	17.3	27.8	10.5	9.8	12.8	12.0	15.6

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 7.

LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	CA6	IA1	IL2	KS1	MD1	MI1	MT1	NE1	NJ1	NJ2	NJ3	NY1	NY2	QE1	MEAN
PIZZAZZ	7.5	8.2	7.3	7.6	6.5	7.6	6.3	8.0	7.0	7.8	7.0	5.3	6.1	7.0	7.1
CITATION FORE (PST-2BR)	7.8	8.2	7.6	7.2	6.4	7.4	6.7	8.0	6.2	8.0	7.3	5.5	5.8	7.0	7.0
PINNACLE II (BAR 9 B2)	7.5	8.4	7.2	7.3	6.8	7.4	6.5	7.7	5.9	7.9	6.0	5.5	5.8	7.0	6.9
MACH 1 (ROBERTS-627)	7.3	8.3	7.3	7.0	6.8	7.3	6.5	7.7	6.2	8.0	6.0	5.3	5.6	7.0	6.9
BLAZER IV (PICK MDR)	7.5	8.2	6.7	7.3	6.7	7.4	6.0	7.3	6.7	7.1	7.0	5.7	5.8	7.0	6.9
PENTIUM (NJ-6401)	7.3	8.3	6.7	7.8	6.2	7.6	6.2	7.0	7.0	7.8	6.0	5.5	5.6	6.7	6.9
AMAZING (B1)	7.5	8.3	6.4	7.1	6.8	7.6	6.8	7.7	6.2	7.6	6.0	5.3	5.7	7.0	6.9
GATOR 3 (CIS-PR-85)	7.5	8.1	6.6	7.3	6.3	7.4	5.8	8.3	6.6	7.8	7.3	4.8	5.8	7.0	6.9
SR 4220 (SRX 4801)	7.3	8.4	7.2	7.6	6.1	7.6	6.0	6.7	6.7	7.2	7.0	4.8	5.8	7.0	6.8
CHARISMATIC (LTP 98-501)	7.7	8.3	7.2	7.6	6.2	7.3	6.2	6.7	6.1	7.1	6.0	5.5	5.8	7.0	6.8
JET	7.5	8.3	6.6	7.3	6.4	7.3	6.3	8.0	5.8	7.4	5.3	5.7	5.7	7.0	6.8
APPLAUD (PENNINGTON-11301)	7.3	8.4	7.0	7.6	6.3	7.4	6.3	8.0	5.9	7.9	4.7	5.2	5.7	7.0	6.8
SALINAS (PST-2SLX)	7.3	8.1	6.8	7.8	6.3	7.4	6.0	6.7	6.0	7.0	7.0	5.3	5.8	7.0	6.8
INSPIRE (R8000)	7.2	8.3	7.1	7.4	6.2	7.3	6.2	8.0	5.9	7.0	6.7	5.2	5.7	7.0	6.8
SR 4420 (SRX 4820)	7.3	8.4	6.8	7.7	6.1	7.3	5.8	7.3	6.2	7.4	6.3	5.2	5.5	7.0	6.7
RACER II (PICK RC2)	7.3	8.3	7.6	7.1	6.3	7.4	6.8	6.7	6.3	6.4	7.0	5.0	5.6	7.0	6.7
SR 4500	7.5	8.3	7.2	6.6	6.5	7.4	6.5	7.0	5.9	7.1	6.3	5.7	5.3	7.0	6.7
PST-2LA	7.3	8.1	7.1	7.2	6.3	7.4	6.3	6.7	5.9	6.8	6.0	5.7	5.8	7.0	6.7
DLF-LDD	7.5	8.0	7.9	7.1	6.2	7.2	6.3	8.0	5.9	7.1	5.0	5.2	5.8	7.0	6.7
SKYHAWK	7.7	8.2	6.4	7.3	6.3	7.6	6.7	8.0	6.2	5.6	6.7	5.5	5.8	7.0	6.7
ALL STAR2 (CIS-PR-78)	7.5	8.3	6.4	7.3	6.3	7.2	5.8	8.0	6.0	7.7	5.3	5.3	5.7	7.0	6.7
COURAGE (MB 410)	7.5	8.3	7.3	7.7	6.0	7.4	5.8	7.3	5.8	6.4	5.7	5.5	5.8	7.0	6.7
ARRIVAL (CIS-PR-84)	7.3	8.3	7.0	7.0	6.3	7.3	5.7	8.0	6.0	7.2	5.3	5.3	5.6	7.0	6.7
GRAND SLAM 2L96 (PST-2L96)	7.2	8.2	7.1	7.7	6.2	7.3	5.8	7.3	5.7	7.1	6.3	5.3	5.6	7.0	6.7
NEXUS	7.7	8.2	6.7	7.1	6.0	7.3	6.0	7.3	6.3	6.3	6.7	5.7	5.9	7.0	6.7
GALLERY (MB 412)	7.3	8.1	7.2	7.4	6.5	7.2	5.8	8.3	5.9	6.2	5.3	5.7	5.7	7.0	6.7
SPLENDID (MB 411)	7.5	8.2	7.0	7.4	6.3	7.4	6.0	7.0	5.8	6.4	6.3	5.3	5.5	7.0	6.7
ABT-99-4.115	7.7	8.1	7.1	7.1	6.1	7.2	6.3	8.3	5.4	7.1	5.0	5.3	5.8	7.0	6.7
KOKOMO (CIS-PR-69)	7.5	8.6	5.9	7.0	6.2	7.3	6.0	7.7	6.0	7.3	6.3	5.2	5.8	7.0	6.7
PACESETTER (6011)	7.8	8.3	6.8	7.2	6.0	7.1	6.3	8.0	6.3	6.8	5.7	5.0	5.5	7.0	6.7
QUEST II (ABT-99-4.721)	7.7	8.3	6.8	7.8	6.0	7.2	6.3	7.0	5.6	6.6	5.3	5.5	5.8	7.0	6.7
PICK PR B-97	7.7	8.2	7.0	7.4	6.1	7.3	6.3	7.7	6.2	6.2	5.3	5.0	5.8	7.0	6.6
CHURCHILL	7.5	8.2	6.2	7.3	6.3	7.6	6.2	8.0	5.7	6.3	6.0	5.2	5.8	7.0	6.6
HAWKEYE (SRX 4RHT)	7.2	8.1	6.4	7.4	6.2	7.4	6.2	7.0	5.8	7.0	6.0	5.2	5.7	7.0	6.6
SUNKISSED (ABT-99-4.834)	7.3	8.2	6.3	6.7	6.2	7.4	5.8	7.3	6.0	7.2	5.7	5.5	5.8	7.0	6.6
PROMISE	7.5	8.2	6.1	7.1	6.3	7.2	6.5	7.3	6.4	6.8	6.7	4.7	5.4	7.0	6.6
RADIANT	7.5	8.2	6.7	7.1	6.3	7.2	5.5	8.0	5.8	6.3	6.7	5.0	5.7	7.0	6.6
ABT-99-4.560	7.2	8.3	6.9	6.3	6.3	7.2	6.0	7.0	6.2	6.6	7.0	5.3	5.8	7.0	6.6
JR-128	7.5	8.3	6.3	7.3	6.1	7.1	6.8	7.3	5.9	6.0	7.0	5.3	5.7	7.0	6.6
DIVINE	7.3	8.3	6.8	6.8	6.1	7.4	6.2	8.3	5.8	6.3	6.3	5.2	5.7	7.0	6.6
SEVILLE II	7.5	8.3	6.7	7.6	6.0	7.4	5.7	6.3	5.9	6.8	6.0	5.2	5.7	7.0	6.6
MANHATTAN 4 (PST-2CRL)	7.5	8.2	6.2	7.0	6.0	7.6	6.0	8.0	5.6	6.8	6.3	5.3	5.7	7.0	6.6
EXTREME (JR-317)	7.5	8.3	7.2	7.4	6.3	7.3	6.2	7.7	5.1	6.1	5.7	5.0	5.8	7.0	6.6
ABT-99-4.965	7.7	8.2	7.1	6.9	6.4	7.3	6.0	8.3	5.6	6.0	5.7	5.2	5.6	7.0	6.6
MP107	7.3	8.2	6.4	7.4	6.2	7.4	6.3	6.7	5.6	6.6	6.3	5.3	5.6	7.0	6.6
ADMIRE (JR-151)	7.2	8.2	6.9	7.8	6.0	7.3	6.5	7.0	5.4	6.4	5.3	5.2	5.8	7.0	6.6



TABLE 7. (CONT'D)

LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	CA6	IA1	IL2	KS1	MD1	MI1	MT1	NE1	NJ1	NJ2	NJ3	NY1	NY2	QE1	MEAN
BARLENNIUM	7.3	8.3	6.0	6.9	6.4	7.2	5.8	6.7	6.2	6.7	6.7	5.2	5.6	7.0	6.6
CALYPSO II	7.7	8.2	6.4	7.3	5.8	7.1	6.0	7.0	6.1	6.7	6.0	5.2	5.6	7.0	6.6
ELFKIN	7.5	8.4	6.0	7.1	6.0	7.4	6.0	6.7	5.9	6.7	6.3	5.3	5.6	7.0	6.6
EP53	7.5	8.2	7.1	6.6	6.3	7.2	6.0	6.7	5.7	6.2	6.0	5.3	5.8	7.0	6.6
APR 1231	7.2	8.2	7.2	7.3	6.3	7.4	6.2	7.7	5.8	6.0	5.7	5.0	5.6	7.0	6.6
TERRADYNE (ASC)	7.0	8.2	6.9	6.9	6.0	7.2	6.2	8.0	5.8	6.6	6.3	5.0	5.5	7.0	6.6
EXACTA	7.7	8.2	7.0	6.9	6.0	7.2	6.3	7.7	5.7	5.9	6.3	5.2	5.7	7.0	6.6
ASCEND	7.5	8.1	6.8	7.2	6.3	7.2	6.3	7.7	5.3	6.4	5.0	5.2	5.8	7.0	6.6
FIESTA 3	7.2	8.1	6.1	7.0	6.0	7.1	6.0	7.3	5.7	7.3	6.0	5.7	5.7	7.0	6.5
AFFIRMED	7.7	8.3	6.7	7.1	6.1	7.2	5.8	7.7	5.6	6.3	5.3	5.5	5.7	7.0	6.5
MP88	7.2	8.3	6.0	7.3	6.2	7.2	6.5	6.7	6.0	6.1	6.3	5.3	5.7	7.0	6.5
SR 4350 (APR 1237)	6.8	8.1	7.1	7.0	6.0	7.4	6.0	7.0	5.3	6.6	5.7	5.7	5.7	7.0	6.5
PST-2M4	7.5	8.2	5.9	7.0	6.2	7.3	5.8	6.3	6.0	6.6	6.7	5.3	5.8	7.0	6.5
PREMIER II	7.3	8.1	7.2	6.4	6.4	7.6	5.8	6.7	5.4	6.6	5.3	5.3	5.7	7.0	6.5
PICK PR QH-97	7.2	8.3	6.3	7.0	6.3	7.3	5.7	7.7	5.7	6.2	6.0	5.0	5.8	7.0	6.5
MAJESTY	7.7	8.1	7.3	7.6	6.4	7.1	6.5	5.7	5.2	6.1	4.7	5.5	5.6	7.0	6.5
ABT-99-4.464	7.5	8.3	6.6	7.1	6.3	7.4	6.3	7.3	5.6	6.4	5.3	5.0	5.4	7.0	6.5
ABT-99-4.339	7.3	8.3	6.4	7.4	6.1	7.0	6.2	7.0	5.4	6.6	5.7	5.2	5.8	7.0	6.5
SUMMERSET (MB 413)	7.5	8.2	5.9	7.2	6.0	7.3	6.2	7.7	5.9	6.4	5.7	5.0	5.6	6.7	6.5
PALMER III	7.5	8.3	5.8	7.6	6.2	7.2	6.0	7.7	5.8	6.2	6.0	5.2	5.4	7.0	6.5
MEPY	7.3	7.9	6.0	6.8	6.4	7.3	6.3	6.3	5.6	6.3	6.7	5.3	5.8	7.0	6.5
BRIGHTSTAR SLT (PST-2A6B)	7.2	8.3	5.7	6.8	6.0	7.1	6.0	6.7	6.2	6.7	7.0	5.2	5.5	7.0	6.5
PROSPORT (AG-P981)	7.3	8.4	5.8	7.1	6.3	7.4	6.2	7.0	5.8	5.8	6.3	5.2	5.6	7.0	6.5
CRUISER (ABT-99-4.709)	7.3	8.3	6.0	7.2	6.0	7.2	6.0	7.7	5.6	6.1	6.3	5.2	5.6	7.0	6.5
SUPERSTAR (EP57)	7.3	7.9	6.2	7.4	6.1	7.3	6.3	6.0	5.9	6.1	6.7	5.2	5.5	7.0	6.5
CABO (CIS-PR-80)	7.3	8.3	6.2	7.0	5.8	7.1	5.7	6.7	5.2	6.9	6.7	5.2	5.7	7.0	6.5
PR 1-94 (PICK PR 1-94)	7.7	8.3	6.4	6.9	5.8	7.3	6.3	8.0	5.7	6.4	5.3	4.8	5.3	7.0	6.5
PENNANT II	7.0	8.3	5.4	7.3	6.3	7.4	5.5	7.7	5.6	6.3	6.0	5.3	5.7	7.0	6.5
WILMINGTON	7.5	8.1	6.2	7.3	6.0	7.3	6.7	7.0	5.4	5.6	6.0	5.2	5.7	7.0	6.5
PICK PRNGS	7.5	8.3	6.3	7.7	6.4	7.3	6.2	6.7	5.3	6.1	4.3	5.2	5.7	7.0	6.5
ABT-99-4.815	7.5	8.2	6.1	7.4	6.2	7.3	6.5	7.7	4.9	6.0	5.3	5.3	5.8	7.0	6.5
ICON (MB 414)	7.0	8.2	6.1	6.8	6.0	7.2	6.0	8.0	5.6	6.6	6.0	5.5	5.6	7.0	6.5
PST-2JH	7.3	8.4	7.0	6.8	6.1	7.4	6.3	7.0	5.1	6.6	4.3	5.2	5.7	7.0	6.5
PARAGON	7.3	8.3	6.3	7.1	6.1	7.3	6.7	7.0	5.3	6.0	6.3	5.2	5.3	7.0	6.5
MONTEREY II (JR-187)	7.7	8.3	6.8	6.9	6.3	7.2	5.8	6.3	5.2	5.9	5.7	5.2	5.9	7.0	6.5
BRIGHTSTAR II	7.2	8.3	6.1	7.3	5.7	7.3	6.2	7.0	5.7	6.1	5.7	5.5	5.7	7.0	6.5
APR 1235	7.8	7.8	6.6	6.9	6.1	7.1	6.2	6.3	5.2	5.9	6.7	5.3	5.8	7.0	6.4
MDP	7.3	8.3	6.4	6.7	6.1	7.3	6.3	7.3	4.8	6.0	5.3	5.3	5.8	7.0	6.4
APR 1232	7.3	8.2	6.6	7.6	6.0	7.4	6.0	6.3	4.7	6.3	5.0	5.3	5.8	7.0	6.4
PST-2RT	7.7	8.3	6.2	6.9	6.1	6.9	6.0	6.3	6.1	6.0	5.7	5.3	5.6	7.0	6.4
CATALINA	7.7	8.3	5.6	7.3	6.1	7.4	6.2	7.3	5.0	6.2	4.7	5.2	5.8	7.0	6.4
DAZZLE (ABT-99-4.724)	7.3	8.1	5.8	7.0	6.2	7.4	6.0	5.7	5.6	6.9	5.3	5.3	5.6	7.0	6.4
MP103	7.7	8.2	6.2	7.3	6.0	7.3	6.2	7.0	5.2	5.8	5.0	5.5	5.6	7.0	6.4
LTP-ME	7.2	8.1	5.8	6.9	6.0	7.3	5.5	6.7	5.6	6.7	6.0	5.3	5.6	7.0	6.4
IQ (CIS-PR-75)	7.5	8.1	5.9	7.1	6.0	7.3	5.8	7.3	5.4	6.3	6.3	4.8	5.5	7.0	6.4
PEARL II (EPD)	7.5	8.2	6.2	6.9	6.1	7.2	6.0	6.3	5.3	5.9	5.7	5.3	5.8	7.0	6.4
APR 776	7.0	8.3	5.3	7.4	6.0	7.2	6.0	6.7	6.0	6.3	6.0	5.2	5.6	6.7	6.4

TABLE 7. (CONT'D)

LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	CA6	IA1	IL2	KS1	MD1	MI1	MT1	NE1	NJ1	NJ2	NJ3	NY1	NY2	QE1	MEAN
STELLAR (CIS-PR-72)	7.2	8.1	4.9	7.3	5.9	7.3	5.7	7.7	5.9	6.4	6.7	5.2	5.5	6.7	6.4
PARADIGM (APR 1236)	7.2	8.0	6.6	6.7	5.9	7.2	6.3	7.0	5.7	5.9	6.3	5.0	5.5	7.0	6.4
PROTYME (ABT-99-4.625)	7.2	8.1	5.6	6.7	6.0	7.4	5.3	7.7	5.7	5.8	7.5	5.3	5.8	6.7	6.4
LPR 98-144	7.0	8.2	6.3	7.8	6.1	7.6	6.2	7.3	5.1	5.4	5.3	5.3	5.2	7.0	6.4
PANTHER	8.0	8.3	5.0	7.1	6.1	7.2	5.7	8.0	4.9	6.2	5.0	5.3	5.8	7.0	6.4
ABT-99-4.600	7.2	8.2	6.1	7.0	6.0	7.1	6.5	7.0	5.2	5.3	5.7	5.5	5.7	7.0	6.4
MANHATTAN 3	7.3	8.3	5.1	8.0	6.1	7.2	5.7	6.7	5.3	5.6	6.0	5.3	5.6	7.0	6.3
RENAISSANCE (APR 1233)	7.7	8.2	5.6	7.1	5.8	7.3	5.8	6.3	5.7	5.9	5.7	5.2	5.8	7.0	6.3
ALLSPORT	7.2	8.3	5.3	7.1	6.2	7.2	6.0	6.3	5.2	5.7	5.3	5.3	5.7	7.0	6.3
PST-2CRR	7.5	8.3	5.3	7.4	5.9	7.4	6.2	6.7	4.8	6.0	4.3	5.7	5.5	7.0	6.3
LS 2100 (PST-2SBE)	7.0	8.3	6.9	7.2	5.8	7.4	5.8	7.3	5.2	5.1	5.0	5.3	5.4	7.0	6.3
LINE DRIVE	6.8	8.2	6.6	7.3	6.1	7.1	6.2	7.3	4.6	6.0	4.0	5.0	5.6	7.0	6.3
PLEASURE XL	7.0	8.3	6.6	6.8	6.3	7.1	6.3	6.0	5.2	5.2	4.7	5.2	5.6	7.0	6.3
CATHEDRAL II	7.5	8.4	6.0	7.1	6.2	7.3	5.7	7.3	4.6	6.0	3.3	5.5	5.6	7.0	6.3
SRX 4120	8.0	8.1	6.2	7.3	5.9	7.1	6.0	6.7	4.6	5.7	4.3	5.0	5.6	7.0	6.3
CHARGER II	7.5	8.3	5.8	7.2	5.8	7.2	5.7	6.3	4.7	5.9	4.0	5.3	5.7	7.0	6.3
CATALINA II (PST-CATS)	7.2	8.2	5.6	7.1	6.0	7.2	6.0	6.3	4.7	6.3	4.7	5.5	5.5	7.0	6.3
SECRETARIAT	7.7	8.2	6.0	6.7	6.0	7.3	5.3	5.7	5.0	6.4	5.0	5.2	5.5	7.0	6.3
CAS-LP84	7.3	8.1	5.3	7.1	6.3	7.1	6.0	7.0	4.7	5.8	4.7	5.3	5.5	7.0	6.2
RACER	7.2	8.0	5.7	7.3	6.0	7.1	5.5	7.3	5.3	5.2	5.3	5.2	5.5	7.0	6.2
HEADSTART	7.0	8.3	5.0	7.6	6.3	7.6	5.8	7.3	4.4	5.7	4.0	5.3	5.6	7.0	6.2
PREMIER	7.5	8.2	5.9	6.6	5.8	7.0	5.8	6.7	4.3	5.7	5.3	5.7	5.9	7.0	6.2
PROWLER (APR 777)	7.5	7.9	7.2	6.7	6.3	7.1	6.2	5.7	5.0	5.2	5.3	4.8	5.1	7.0	6.2
LPR 98-143	7.8	7.6	5.0	7.1	6.2	7.2	6.0	7.0	4.8	5.4	5.3	5.3	5.4	7.0	6.2
AFFINITY	7.2	8.0	5.0	7.0	5.8	7.4	5.8	7.7	4.9	5.2	5.0	5.7	5.7	7.0	6.1
BY-100	7.7	8.3	5.2	6.9	5.8	7.1	5.7	7.0	4.2	5.4	3.7	5.5	5.8	7.0	6.1
PICK EX2	7.7	8.2	5.8	6.4	6.1	7.2	5.8	6.7	4.3	5.3	4.0	5.3	5.7	7.0	6.1
PHANTOM	7.7	8.2	4.9	7.0	6.0	6.9	5.8	6.7	4.7	5.4	4.3	5.0	5.6	7.0	6.1
PASSPORT	7.0	8.3	5.1	6.4	5.9	7.3	5.8	6.3	4.9	5.1	4.7	5.7	5.4	7.0	6.1
DP LP-1	7.7	8.0	4.8	6.4	5.8	7.1	6.0	6.3	5.2	5.2	5.3	5.2	5.6	7.0	6.1
WVPB-R-84	7.2	8.2	5.1	6.8	6.1	7.3	5.7	7.3	4.4	5.2	4.0	5.3	5.4	6.7	6.1
DP 17-9069	7.3	8.2	4.7	6.8	6.1	7.2	.	6.3	4.9	4.8	4.7	5.2	5.8	7.0	6.0
DP 17-9391	7.5	7.6	4.7	7.3	6.2	7.0	5.5	6.3	4.1	5.1	4.0	5.0	5.9	7.0	6.0
KOOS R-71	8.0	8.1	4.9	6.4	5.9	7.1	5.3	6.7	4.3	4.8	3.7	5.7	5.6	7.0	5.9
WVPB-R-82	7.5	8.4	4.9	6.9	6.0	7.2	5.2	6.3	3.8	4.6	3.0	5.3	5.7	7.0	5.9
EDGE	6.7	8.1	4.8	6.8	6.0	6.9	5.2	6.3	4.2	5.1	3.7	5.0	5.8	7.0	5.9
APR 1234	7.0	8.2	4.9	6.4	5.7	6.9	5.8	6.3	3.7	4.3	4.0	5.2	5.4	7.0	5.7
BUCCANEER	7.3	8.1	4.8	6.2	5.5	7.1	5.0	6.3	3.9	4.9	3.3	5.3	5.4	6.7	5.7
YATSUGREEN	7.2	7.9	4.1	6.6	5.8	7.0	5.2	6.0	3.3	5.0	2.0	5.0	5.3	7.0	5.6
DP 17-9496	6.2	7.1	2.1	5.4	4.8	6.9	4.0	6.0	2.0	3.1	1.7	5.0	5.6	7.0	4.8
LINN	6.2	6.9	1.1	4.0	3.8	6.8	3.8	5.3	1.0	1.0	1.0	5.0	5.4	7.0	4.0
LSD VALUE	0.9	0.6	2.0	1.1	0.6	0.7	1.1	1.8	1.5	1.7	1.9	1.0	0.8	0.2	0.4
C.V. (%)	7.3	4.1	19.9	9.8	6.2	6.2	11.9	15.9	16.7	17.3	21.8	11.7	9.2	1.9	11.8

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 8.

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	CA6	IA1	IL2	IN1	MI1	MN1	MT1	NE1	NJ1	NJ2	NS1	NY1	NY2	OH1	RI1	SD1	UT1	WA1	WA3	WA4	MEAN
YATSUGREEN	7.7	8.7	8.7	8.0	6.3	7.7	5.0	8.3	6.3	6.7	8.7	3.0	3.0	8.0	7.7	9.0	5.7	7.3	6.3	7.7	7.0
SECRETARIAT	7.3	8.0	9.0	7.7	5.3	7.3	4.0	8.0	7.0	6.3	8.3	3.0	3.0	7.0	8.3	9.0	7.7	7.3	6.0	6.3	6.8
KOOS R-71	7.0	8.0	9.0	8.0	5.3	7.7	5.0	8.0	7.0	5.0	8.3	3.7	3.7	7.3	8.0	8.0	7.0	7.3	5.3	6.7	6.8
PALMER III	7.3	8.0	8.7	7.7	5.0	7.0	4.7	8.3	7.0	4.7	8.3	4.3	4.3	7.3	8.7	8.0	6.7	6.7	5.3	6.7	6.7
AFFINITY	7.7	8.3	8.7	7.0	6.0	7.0	5.0	7.3	6.3	5.3	8.3	3.3	3.3	7.0	8.7	8.7	7.3	7.3	5.7	6.0	6.7
BY-100	7.7	8.3	9.0	7.3	5.3	7.7	3.3	9.0	6.0	6.0	9.0	2.3	2.3	6.7	7.3	8.7	7.0	8.0	6.3	6.7	6.7
PARAGON	6.3	8.0	9.0	8.0	5.3	7.3	5.7	7.7	7.0	4.3	8.3	3.3	3.3	7.3	8.7	8.7	6.3	6.7	5.3	7.0	6.7
LINN	7.0	9.0	8.7	8.0	7.0	7.7	4.3	8.7	4.7	5.7	8.0	3.0	3.0	7.3	8.0	8.3	4.3	8.0	5.0	7.7	6.7
JET	7.7	8.0	8.7	7.7	5.3	7.3	3.3	7.7	7.7	4.7	8.7	3.3	3.3	7.7	8.0	8.0	6.0	6.7	5.3	7.0	6.6
WVPB-R-82	6.7	8.3	9.0	8.0	5.0	7.3	4.7	8.3	5.7	4.7	8.7	3.3	3.3	7.3	8.3	8.7	5.3	7.3	5.7	6.3	6.6
EXACTA	7.0	8.0	9.0	7.7	5.3	7.0	4.3	7.3	7.7	4.3	8.3	3.3	3.3	7.7	8.3	7.7	6.3	7.3	5.3	6.3	6.6
BUCCANEER	7.0	8.7	9.0	8.3	6.0	7.3	4.3	7.0	6.0	5.3	8.0	2.7	2.7	6.3	7.3	9.0	6.0	7.7	5.7	7.0	6.6
CHARGER II	7.3	8.0	9.0	7.3	5.7	7.0	4.0	7.7	6.0	4.7	8.7	3.7	3.7	7.7	8.7	8.0	5.0	7.0	6.0	6.0	6.6
PREMIER	6.7	8.7	9.0	7.0	5.0	7.3	3.7	7.7	7.0	5.0	7.5	3.7	3.7	7.3	7.3	8.3	7.0	7.0	5.3	6.7	6.5
SR 4420 (SRX 4820)	7.3	8.0	8.7	7.7	5.0	7.0	5.0	7.0	7.3	5.7	7.7	3.7	3.7	6.0	8.3	8.0	5.0	7.0	5.7	7.0	6.5
PENTIUM (NJ-6401)	7.7	8.0	8.7	8.0	5.0	7.0	4.0	7.7	7.3	4.7	8.0	3.0	3.0	6.7	8.3	7.3	6.7	7.3	4.7	7.7	6.5
SUMMERSET (MB 413)	6.0	8.0	8.3	7.7	5.0	7.0	4.7	8.0	7.3	5.3	8.0	3.0	3.0	8.0	8.3	6.7	7.0	7.0	5.3	7.0	6.5
ADMIRE (JR-151)	6.3	8.3	8.7	7.0	5.0	7.7	5.3	6.0	7.0	4.7	8.3	3.7	3.7	7.3	8.7	8.0	6.3	6.7	4.7	6.7	6.5
SPLENDID (MB 411)	7.3	8.0	8.7	7.7	5.0	7.3	3.7	8.7	7.0	5.3	8.3	3.0	3.0	6.7	8.0	7.0	5.3	7.0	6.3	6.7	6.5
MAJESTY	7.0	8.3	9.0	7.3	5.3	7.3	4.3	7.3	7.3	4.7	8.0	3.0	3.0	6.7	8.7	8.3	5.7	6.7	5.3	6.3	6.5
LINE DRIVE	6.3	8.7	9.0	7.7	5.0	7.3	3.7	8.0	6.3	5.7	8.3	3.3	3.3	7.0	6.0	8.7	6.0	6.7	6.3	6.3	6.5
COURAGE (MB 410)	7.3	8.0	8.7	7.0	5.0	7.3	4.3	8.0	6.7	5.7	8.0	3.3	3.3	6.7	7.3	8.7	5.0	6.7	6.0	6.3	6.5
FIESTA 3	6.3	8.0	9.0	7.3	4.7	6.3	4.7	8.0	7.0	5.7	7.7	3.0	3.0	7.7	8.7	8.0	5.0	7.0	5.0	7.0	6.5
PST-2JH	7.7	7.7	9.0	6.3	4.3	6.7	4.3	5.7	6.3	4.7	8.3	4.3	4.3	7.3	8.3	8.0	6.0	7.7	5.7	6.3	6.5
CALYPSO II	6.7	8.3	9.0	7.7	6.3	7.3	3.7	6.7	6.7	5.7	7.7	3.7	3.7	7.3	7.7	7.7	4.7	7.0	5.3	6.0	6.4
APPLAUD (PENNINGTON-11301)	7.3	7.7	8.7	7.3	5.0	7.3	5.0	8.0	7.7	4.3	7.3	3.0	3.0	7.0	8.7	7.3	5.3	6.7	5.7	6.3	6.4
DP 17-9391	7.7	8.7	9.0	7.0	5.0	7.0	3.7	7.0	6.0	4.3	8.7	3.3	3.3	6.7	7.7	9.0	5.3	7.0	5.7	6.7	6.4
PANTHER	6.3	7.7	9.0	8.0	4.7	6.7	3.7	8.3	6.7	6.0	8.0	3.0	3.0	7.3	7.3	8.3	6.7	7.0	5.0	6.0	6.4
WVPB-R-84	6.0	8.0	9.0	7.7	5.3	7.0	5.0	7.3	6.0	4.7	7.7	4.0	4.0	7.3	8.3	8.3	5.3	7.7	4.3	5.7	6.4
PICK EX2	6.7	8.0	9.0	7.3	4.7	6.7	4.7	7.0	6.7	5.0	8.7	3.0	3.0	6.7	8.7	8.7	6.0	7.0	4.7	6.3	6.4
AFFIRMED	6.7	8.3	8.7	7.7	5.3	6.7	4.3	8.3	7.3	5.7	8.7	3.3	3.3	7.3	7.7	8.0	4.7	7.0	3.3	6.0	6.4
PREMIER II	7.7	8.0	9.0	7.7	5.3	6.7	4.7	7.0	7.3	5.0	8.0	2.3	2.3	7.0	7.7	8.3	5.0	7.3	5.3	6.7	6.4
LPR 98-144	6.7	7.7	9.0	8.0	4.3	7.0	4.0	7.0	7.3	5.7	8.0	3.0	3.0	7.3	8.0	7.7	5.7	7.0	4.7	7.0	6.4
SEVILLE II	7.0	8.0	8.7	7.3	5.0	6.7	3.7	7.0	7.7	5.3	8.0	3.0	3.0	7.3	8.3	8.3	5.7	7.0	5.3	5.7	6.4
RACER II (PICK RC2)	6.7	8.0	9.0	7.7	4.3	7.3	4.7	5.7	7.0	4.7	8.0	3.7	3.7	7.3	8.0	8.3	5.7	6.7	4.7	6.7	6.4
DIVINE	7.7	7.7	8.7	7.3	4.7	7.3	4.0	7.0	7.3	4.7	8.7	3.3	3.3	6.7	7.3	7.3	7.0	7.0	4.7	6.0	6.4
PHANTOM	6.0	7.7	9.0	7.0	5.0	6.3	4.3	8.0	7.0	5.3	8.7	3.3	3.3	7.3	6.7	6.7	6.0	7.0	6.7	6.3	6.4
NEXUS	7.0	8.3	9.0	7.0	5.0	6.3	4.7	7.0	7.0	4.0	7.7	3.7	3.7	7.3	8.3	7.0	6.0	6.0	5.7	6.7	6.4
DLF-LDD	6.3	7.7	9.0	7.7	5.0	6.7	4.3	7.3	7.3	5.3	8.0	3.3	3.3	7.3	7.3	6.3	5.7	7.0	4.7	7.7	6.4
HEADSTART	6.3	8.0	8.7	8.0	5.3	6.7	4.7	8.3	7.0	5.0	8.3	3.0	3.0	7.3	9.0	8.0	3.7	6.3	5.0	5.7	6.4
EDGE	7.0	8.0	9.0	7.3	5.3	8.0	4.7	6.7	6.0	5.3	7.7	3.3	3.3	7.3	7.3	8.3	4.3	7.0	5.0	6.3	6.4
PASSPORT	7.0	8.0	9.0	7.3	5.0	7.3	3.3	6.7	6.7	5.3	7.7	3.0	3.0	7.0	7.3	8.7	6.3	6.3	5.0	6.7	6.3
ABT-99-4.600	7.7	7.7	8.3	7.0	4.7	6.7	4.7	6.3	6.7	4.0	8.0	3.3	3.3	7.3	8.0	8.0	7.3	7.0	4.7	6.0	6.3
MACH 1 (ROBERTS-627)	7.3	8.0	9.0	8.0	4.3	6.7	4.3	7.3	6.7	4.3	8.0	3.7	3.7	7.7	7.3	7.0	6.3	6.3	3.7	6.7	6.3
SRX 4120	7.3	8.0	9.0	6.0	5.3	6.3	4.7	6.7	6.3	4.3	8.3	3.7	3.7	7.0	7.3	9.0	5.7	6.3	5.7	5.7	6.3
ICON (MB 414)	6.0	7.7	9.0	7.7	4.3	6.7	4.3	7.3	7.0	4.7	7.7	3.0	3.0	7.3	8.3	7.3	7.0	6.3	6.0	5.7	6.3

TABLE 8. (CONT'D)

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	CA6	IA1	IL2	IN1	MI1	MN1	MT1	NE1	NJ1	NJ2	NS1	NY1	NY2	OH1	RI1	SD1	UT1	WA1	WA3	WA4	MEAN
MANHATTAN 3	7.7	7.8	8.7	7.0	5.0	7.0	4.3	6.3	7.0	4.7	7.7	2.3	2.3	7.7	7.3	8.7	5.7	7.0	6.0	6.0	6.3
DP LP-1	7.0	7.7	9.0	8.0	4.0	7.3	3.3	6.3	5.7	6.3	7.7	2.7	2.7	7.3	7.7	8.7	5.7	7.0	5.7	6.3	6.3
ELFKIN	7.3	7.3	8.3	7.0	5.3	6.7	3.3	7.3	7.0	5.3	8.3	3.0	3.0	7.7	7.3	7.7	6.0	6.7	5.7	5.7	6.3
MONTEREY II (JR-187)	7.0	8.0	9.0	7.0	4.3	7.3	5.0	7.7	7.0	5.3	7.7	3.3	3.3	7.0	7.0	8.3	5.0	6.7	4.3	5.7	6.3
PLEASURE XL	6.7	8.3	9.0	6.7	4.0	6.3	4.0	7.0	7.0	4.7	7.7	3.3	3.3	7.7	8.0	7.3	6.0	7.0	5.7	6.3	6.3
SR 4500	7.0	7.3	9.0	7.3	5.0	6.3	4.3	7.0	7.0	4.0	7.7	3.3	3.3	7.3	8.3	8.0	5.3	6.7	5.3	6.3	6.3
DP 17-9069	7.0	7.7	9.0	7.3	5.3	7.0	.	5.7	5.7	5.0	8.0	3.3	3.3	6.7	8.3	7.0	4.3	7.0	5.3	6.7	6.3
CHARISMATIC (LTP 98-501)	6.3	8.0	9.0	7.7	4.7	7.0	4.3	7.7	6.7	4.3	7.0	2.7	2.7	8.0	9.0	7.7	4.3	6.7	4.7	7.3	6.3
CHURCHILL	7.0	7.7	8.7	7.3	4.7	7.0	4.0	7.0	7.0	5.3	8.0	3.3	3.3	7.0	8.0	8.0	5.3	6.7	4.7	5.7	6.3
BARLENNIUM	6.7	8.0	9.0	7.3	5.0	7.0	5.0	7.0	7.0	5.0	8.3	3.0	3.0	7.7	6.7	8.0	4.7	6.7	4.7	5.7	6.3
ABT-99-4.464	7.3	7.3	9.0	7.3	5.0	6.7	5.0	6.3	7.3	4.7	7.7	3.0	3.0	7.3	8.3	7.0	5.3	6.7	5.3	5.7	6.3
ALLSPORT	7.0	8.0	9.0	8.0	5.0	6.7	3.7	7.3	6.7	4.7	7.7	3.0	3.0	7.3	7.3	8.0	4.0	7.0	5.7	6.3	6.3
PST-2RT	7.3	7.7	8.3	7.3	5.0	7.0	4.3	7.3	6.0	4.3	8.3	2.3	2.3	7.0	7.7	8.0	7.3	7.3	4.0	6.3	6.3
WILMINGTON	7.0	7.7	9.0	7.7	4.7	6.3	3.3	5.7	7.3	5.3	8.3	3.3	3.3	7.0	8.3	7.3	5.3	6.3	6.0	6.0	6.3
DP 17-9496	8.0	8.3	8.3	7.3	6.0	6.3	4.0	6.7	4.7	4.7	8.0	3.0	3.0	6.3	6.7	8.7	5.3	6.7	5.7	7.3	6.3
HAWKEYE (SRX 4RHT)	7.7	7.3	7.7	6.7	5.0	7.7	5.0	7.3	6.3	4.3	7.7	3.3	3.3	6.7	7.7	7.7	5.3	7.0	5.3	6.0	6.3
JR-128	7.3	8.0	8.3	7.3	4.7	7.3	5.3	7.7	6.7	5.3	8.3	3.0	3.0	7.0	5.7	7.7	4.7	7.0	4.0	6.3	6.2
KOKOMO (CIS-PR-69)	7.7	7.7	9.0	7.3	5.3	7.0	3.7	6.3	7.0	5.0	7.7	3.3	3.3	6.0	7.3	7.7	6.0	6.7	4.0	6.7	6.2
LPR 98-143	7.3	8.0	8.7	7.7	4.3	7.3	4.7	8.0	7.0	5.0	8.0	3.3	3.3	6.7	8.7	7.3	2.3	6.0	4.7	6.0	6.2
RACER	7.0	8.3	9.0	8.0	5.0	6.7	3.0	7.3	5.7	4.7	8.7	3.7	3.7	7.3	6.3	7.3	5.0	6.7	5.0	5.7	6.2
PENNANT II	6.3	7.7	9.0	8.0	4.3	7.0	3.3	6.3	7.0	4.3	8.0	3.0	3.0	7.0	8.3	7.7	5.3	7.0	5.3	6.0	6.2
SR 4350 (APR 1237)	7.0	7.7	9.0	7.0	4.3	7.3	4.3	7.0	6.7	4.3	7.7	3.3	3.3	7.7	7.0	7.7	6.3	6.7	4.3	5.3	6.2
STELLAR (CIS-PR-72)	7.0	7.7	9.0	7.0	5.0	6.3	4.7	5.7	6.3	4.7	7.7	3.0	3.0	6.7	7.3	8.0	6.3	7.0	5.7	6.0	6.2
CATHEDRAL II	7.7	7.7	8.3	7.0	4.7	7.0	4.3	8.3	6.0	5.0	8.7	2.7	2.7	7.7	6.7	7.3	4.7	5.7	5.7	6.0	6.2
CITATION FORE (PST-2BR)	7.3	8.0	8.7	6.7	5.3	6.0	4.0	5.3	7.0	4.7	8.7	3.3	3.3	6.7	7.7	7.3	5.7	7.0	5.3	5.7	6.2
PICK PRNGS	7.0	8.0	8.7	7.7	4.3	7.3	3.7	6.3	6.7	4.7	8.0	2.7	2.7	7.0	7.7	7.3	6.3	6.3	5.3	6.0	6.2
RENAISSANCE (APR 1233)	6.7	8.0	9.0	7.0	4.7	6.7	5.0	6.7	7.3	4.0	7.3	3.3	3.3	7.0	9.0	7.0	5.3	6.7	4.0	5.7	6.2
GALLERY (MB 412)	6.7	7.3	8.7	7.3	4.7	6.7	4.3	7.0	7.3	4.3	7.7	3.0	3.0	7.3	8.0	7.3	5.3	6.3	5.0	6.3	6.2
ASCEND	7.3	7.7	9.0	6.7	5.0	7.3	3.3	7.0	7.0	4.7	7.7	2.7	2.7	7.3	7.0	8.3	4.3	7.0	5.0	6.3	6.2
APR 1231	7.0	8.0	9.0	7.3	4.7	6.7	3.3	6.3	7.0	5.0	8.0	3.0	3.0	6.7	8.3	6.7	4.3	6.7	5.7	6.3	6.2
APR 1234	7.0	7.7	9.0	6.7	5.0	6.3	4.7	6.3	6.0	4.3	7.7	3.3	3.3	7.3	8.7	7.3	6.0	6.3	4.3	5.7	6.2
BRIGHTSTAR II	7.3	7.3	9.0	7.3	4.7	7.0	3.0	7.3	7.3	4.7	7.7	3.7	3.7	7.3	6.0	7.0	5.0	6.7	5.0	5.7	6.1
PINNACLE II (BAR 9 B2)	7.3	7.7	9.0	6.7	5.0	6.3	4.3	6.7	7.3	4.7	8.0	3.0	3.0	6.7	7.7	8.0	4.3	7.0	4.0	6.0	6.1
QUEST II (ABT-99-4.721)	5.7	6.7	9.0	7.3	4.3	6.7	4.7	6.7	7.0	4.3	8.0	3.3	3.3	6.7	6.3	7.7	6.0	7.0	5.7	6.3	6.1
ABT-99-4.115	6.3	7.7	9.0	7.0	5.3	7.7	3.3	6.0	6.7	4.3	7.7	3.3	3.3	7.0	6.3	8.3	5.3	7.0	4.7	6.3	6.1
RADIANT	6.7	7.3	9.0	7.0	4.3	7.0	4.3	8.0	7.0	5.0	8.3	3.3	3.3	7.3	7.3	6.3	4.0	6.3	5.0	5.7	6.1
SR 4220 (SRX 4801)	6.3	8.0	9.0	6.7	4.7	6.3	5.0	6.7	7.3	3.3	7.7	3.0	3.0	7.0	7.3	7.3	6.3	6.3	5.3	6.0	6.1
PACESETTER (6011)	7.0	7.7	9.0	7.0	4.3	6.3	4.3	7.0	6.3	4.0	7.7	3.0	3.0	7.3	7.3	7.0	6.3	7.0	5.0	5.7	6.1
CRUISER (ABT-99-4.709)	7.0	7.3	9.0	6.7	4.3	6.3	4.0	6.7	5.7	4.3	7.7	3.7	3.7	6.3	8.0	7.7	6.3	6.3	5.3	5.7	6.1
EXTREME (JR-317)	5.7	8.0	9.0	7.0	4.7	7.0	4.0	6.3	7.0	5.0	7.7	3.0	3.0	7.3	7.3	8.0	5.3	6.7	4.0	6.0	6.1
INSPIRE (R8000)	6.7	7.7	8.7	6.7	5.0	6.7	4.3	7.0	6.3	4.0	8.0	3.0	3.0	7.3	7.7	7.3	5.0	6.7	5.0	6.0	6.1
PR 1-94 (PICK PR 1-94)	7.3	7.7	9.0	7.3	4.0	6.0	4.0	7.7	7.0	4.7	7.7	2.7	2.7	7.0	7.3	7.7	5.7	6.3	4.3	6.0	6.1
PROMISE	7.0	7.0	8.7	6.3	5.0	6.7	4.3	6.3	6.7	4.0	7.7	3.3	3.3	6.7	9.0	7.3	5.3	6.7	4.3	6.3	6.1
ARRIVAL (CIS-PR-84)	7.3	7.7	9.0	7.7	5.0	6.7	3.3	6.0	6.7	4.3	7.0	3.3	3.3	7.0	8.7	7.3	6.0	6.3	3.7	5.3	6.1
CATALINA	6.3	7.3	9.0	7.0	5.0	6.3	4.0	7.0	6.0	3.3	7.7	3.3	3.3	7.0	7.7	8.0	6.0	6.3	5.0	6.0	6.1
PROSPORT (AG-P981)	6.0	7.3	8.7	7.0	5.0	6.7	4.3	7.0	6.3	3.7	7.7	3.7	3.7	7.7	6.7	6.7	5.3	6.7	5.3	6.0	6.1
AMAZING (B1)	6.7	7.7	9.0	7.0	5.3	6.3	4.0	6.3	7.3	4.3	7.3	3.3	3.3	7.0	7.0	8.0	5.0	7.0	4.0	5.3	6.1

TABLE 8. (CONT'D)

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	CA6	IA1	IL2	IN1	MI1	MN1	MT1	NE1	NJ1	NJ2	NS1	NY1	NY2	OH1	RI1	SD1	UT1	WA1	WA3	WA4	MEAN
MANHATTAN 4 (PST-2CRL)	7.7	7.3	8.7	7.3	5.0	6.7	4.0	6.0	6.3	4.0	8.0	3.3	3.3	7.3	6.0	8.0	5.0	6.0	5.3	5.7	6.1
APR 776	7.3	7.3	9.0	7.0	4.3	6.0	4.7	7.7	6.3	3.7	7.3	4.0	4.0	7.0	6.7	7.0	5.0	6.3	4.7	5.3	6.0
ABT-99-4.815	6.3	7.7	9.0	6.7	4.7	6.7	4.0	5.3	6.0	4.0	7.3	3.0	3.0	7.0	8.0	7.7	6.7	6.7	4.7	6.0	6.0
PICK PR QH-97	7.0	7.3	8.3	6.7	5.0	6.7	4.3	5.3	6.7	3.7	7.3	3.7	3.7	7.7	7.3	7.7	4.7	6.7	5.0	5.7	6.0
PST-2M4	7.3	7.7	9.0	6.3	5.0	6.7	3.7	6.3	6.0	4.0	8.0	3.3	3.3	7.7	7.0	6.7	6.0	6.7	4.0	5.7	6.0
ALL STAR2 (CIS-PR-78)	7.0	7.7	8.3	7.3	5.3	6.0	3.3	5.3	6.7	4.3	7.0	3.0	3.0	7.0	8.7	7.0	6.3	6.7	3.7	6.3	6.0
APR 1235	6.7	8.0	9.0	7.0	5.3	6.7	3.0	6.3	6.3	3.7	7.3	3.0	3.0	7.3	7.0	8.7	4.7	6.7	3.7	6.7	6.0
BLAZER IV (PICK MDR)	7.0	7.7	8.7	7.0	4.7	6.7	3.7	7.3	8.0	4.0	7.7	2.7	2.7	6.7	5.7	7.7	4.7	7.0	4.3	6.3	6.0
PROWLER (APR 777)	6.3	7.0	9.0	7.3	5.0	7.3	4.0	6.7	6.3	3.7	8.3	2.3	2.3	7.7	7.0	7.7	4.7	6.7	4.7	6.0	6.0
SUNKISSED (ABT-99-4.834)	6.3	7.3	8.7	6.7	4.7	6.7	3.7	6.0	7.3	4.3	7.3	2.7	2.7	7.0	8.7	8.0	4.7	7.0	4.7	5.7	6.0
CATALINA II (PST-CATS)	7.3	8.0	9.0	7.0	4.7	6.7	3.7	5.0	5.7	4.7	7.7	3.7	3.7	6.7	7.3	6.3	5.0	6.7	4.3	6.7	6.0
ABT-99-4.339	7.0	7.0	8.0	6.3	4.7	6.3	4.0	6.0	6.7	4.0	7.3	3.0	3.0	7.0	8.3	7.0	6.0	7.0	5.3	5.7	6.0
PIZZAZZ	7.0	7.7	9.0	7.0	5.0	7.3	4.7	6.3	7.0	4.3	7.7	3.0	3.0	6.3	7.3	7.3	3.3	6.3	4.0	5.7	6.0
GRAND SLAM 2L96 (PST-2L96)	7.3	7.0	9.0	7.0	4.3	6.7	4.7	6.0	6.3	4.3	8.0	3.5	3.5	6.7	6.3	6.3	5.3	7.3	4.0	5.7	6.0
BRIGHTSTAR SLT (PST-2A6B)	7.0	7.3	8.7	7.3	5.0	7.0	3.7	6.3	6.0	4.3	8.0	3.0	3.0	7.0	6.3	7.3	5.0	7.3	3.3	6.3	6.0
APR 1232	7.0	7.3	9.0	7.0	4.3	6.0	4.3	6.3	6.7	3.7	7.3	3.3	3.3	6.7	8.0	7.0	5.7	6.0	4.7	5.0	5.9
GATOR 3 (CIS-PR-85)	7.3	8.0	8.3	7.3	4.3	6.3	4.3	6.0	7.3	4.3	7.3	3.3	3.3	6.3	7.0	6.3	5.3	6.0	4.0	5.7	5.9
PST-2LA	6.7	7.7	8.7	6.7	5.0	5.7	3.7	5.7	7.0	4.7	7.7	3.0	3.0	7.3	6.7	7.3	5.3	6.7	3.7	6.0	5.9
SALINAS (PST-2SLX)	7.3	7.3	8.7	6.0	4.0	7.0	3.7	6.0	6.7	5.0	7.3	3.3	3.3	7.0	7.3	6.7	5.0	6.3	4.3	5.7	5.9
EP53	6.7	7.0	9.0	7.3	4.0	5.3	4.0	7.0	6.3	4.3	7.3	2.3	2.3	6.3	8.0	7.3	6.3	5.7	5.7	5.3	5.9
PARADIGM (APR 1236)	7.7	7.7	8.3	6.7	4.3	6.0	4.0	5.7	6.0	3.3	7.0	3.7	3.7	7.7	7.3	7.3	4.7	6.7	4.0	5.7	5.9
CABO (CIS-PR-80)	7.7	8.0	8.0	6.3	4.7	5.7	4.0	6.0	6.7	3.7	7.0	3.7	3.7	7.0	7.3	6.3	5.7	5.7	4.7	5.3	5.9
ABT-99-4.560	6.7	7.7	9.0	6.7	4.7	6.0	4.0	5.7	5.7	4.3	7.7	3.0	3.0	7.7	5.3	7.7	5.7	7.0	4.0	5.3	5.8
PST-2CRR	6.3	8.0	8.7	6.7	4.7	6.7	3.7	5.7	5.7	4.0	8.0	3.0	3.0	7.0	6.3	6.0	6.0	6.3	4.7	6.3	5.8
IQ (CIS-PR-75)	7.0	7.3	9.0	7.0	4.7	6.7	3.7	5.7	7.0	3.7	7.3	3.0	3.0	7.7	6.3	6.0	5.3	7.0	4.0	5.3	5.8
PICK PR B-97	6.0	7.3	8.3	6.3	4.3	6.3	4.3	6.0	6.7	4.3	8.0	3.0	3.0	7.7	7.3	7.3	4.3	6.3	4.0	5.3	5.8
CAS-LP84	6.3	7.3	9.0	6.3	4.7	6.0	3.0	6.0	6.0	3.3	8.0	2.7	2.7	7.0	7.7	7.0	6.0	6.7	4.3	6.0	5.8
SUPERSTAR (EP57)	6.3	7.3	9.0	6.0	3.7	5.7	3.0	5.7	6.0	3.7	7.3	3.0	3.0	6.7	8.7	7.3	5.0	6.7	5.0	6.0	5.8
MP103	7.3	7.3	9.0	7.0	4.0	5.7	3.0	5.7	6.7	3.7	6.0	3.3	3.3	7.0	7.3	6.7	5.0	5.7	4.0	5.7	5.7
MP107	6.0	7.0	8.3	7.0	5.0	5.7	3.3	5.0	5.7	3.3	7.3	3.3	3.3	6.7	7.0	7.0	5.7	6.0	4.3	5.3	5.6
MP88	6.0	7.7	9.0	7.0	3.7	5.7	3.0	5.7	6.0	3.3	7.0	3.0	3.0	6.7	7.0	6.7	6.7	5.0	4.0	6.0	5.6
MDP	7.0	6.7	9.0	5.3	4.3	6.3	3.3	7.0	5.0	2.7	7.0	3.7	3.7	6.3	7.3	6.3	6.0	5.7	4.0	5.3	5.6
PEARL II (EPD)	5.7	6.7	8.0	5.3	4.3	5.3	3.3	6.3	6.3	3.7	7.3	3.3	3.3	7.3	7.0	7.0	5.0	6.3	4.7	5.0	5.6
SKYHAWK	7.0	7.3	9.0	7.0	4.0	5.3	2.7	5.3	6.0	3.3	7.0	3.0	3.0	5.7	7.3	6.3	6.0	6.3	3.7	5.7	5.6
LS 2100 (PST-2SBE)	6.0	7.7	8.7	6.7	4.7	5.3	2.7	5.0	5.7	2.7	8.0	3.3	3.3	6.3	7.7	6.7	5.0	6.3	4.0	5.3	5.6
TERRADYNE (A5C)	7.0	7.0	8.0	7.0	4.7	5.3	2.7	6.0	6.0	3.3	7.0	3.3	3.3	6.7	6.7	6.3	5.0	6.0	4.3	5.0	5.5
MEPY	7.0	7.0	8.7	6.3	4.0	5.7	2.0	4.7	6.0	3.3	7.3	3.7	3.7	7.0	6.0	7.3	5.3	6.0	3.3	5.7	5.5
PROTYME (ABT-99-4.625)	6.7	7.0	8.3	6.0	4.0	5.0	2.3	5.0	5.3	2.3	7.0	3.7	3.7	6.0	6.7	7.0	4.7	6.0	3.3	5.7	5.3
ABT-99-4.965	7.0	7.3	8.0	5.3	4.3	5.0	3.3	5.0	5.0	2.3	6.7	3.7	3.7	6.3	3.3	7.3	5.7	7.0	3.7	4.7	5.2
DAZZLE (ABT-99-4.724)	6.3	6.7	8.0	6.0	4.7	4.7	2.7	5.7	5.0	2.0	6.7	2.7	2.7	6.7	7.0	6.3	4.3	5.7	4.0	5.0	5.1
LTP-ME	4.0	1.0	3.0	1.0	3.7	2.0	1.0	3.7	4.0	1.0	6.7	3.0	3.0	4.7	6.0	4.7	4.0	3.0	3.0	4.7	3.4
LSD VALUE	1.6	0.8	0.6	1.2	1.0	1.2	1.6	1.7	1.1	1.3	1.1	1.3	1.3	1.4	1.6	1.5	2.3	1.0	1.6	1.3	0.3
C.V. (%)	14.8	6.2	4.3	10.4	12.4	10.9	24.2	15.7	10.6	17.6	9.1	25.0	25.0	12.0	13.2	12.4	26.2	9.1	20.2	13.4	13.8

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 9. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	KY1	MI1	MT1	NE1	QE1	SD1	WA4	WI1	MEAN
HAWKEYE (SRX 4RHT)	8.7	6.9	5.3	8.7	5.7	6.3	6.7	5.3	6.8
ABT-99-4.115	8.7	6.8	5.3	8.8	5.4	6.8	6.7	5.0	6.8
LPR 98-144	8.7	6.9	5.3	9.0	5.3	6.7	6.3	5.2	6.8
BLAZER IV (PICK MDR)	8.7	6.8	4.7	8.9	5.4	6.8	7.0	5.3	6.8
APPLAUD (PENNINGTON-11301)	8.3	6.8	5.3	8.8	5.4	7.2	6.7	5.2	6.8
PINNACLE II (BAR 9 B2)	8.3	6.9	5.7	8.6	5.4	6.8	6.3	5.3	6.8
PICK PRNGS	9.0	6.8	6.0	8.8	5.0	6.8	7.0	5.3	6.8
PARAGON	8.7	6.8	5.7	8.7	5.3	6.5	7.0	5.0	6.7
CHARISMATIC (LTP 98-501)	8.7	7.0	5.0	8.8	5.3	6.8	7.0	5.0	6.7
ABT-99-4.464	8.3	6.8	5.3	8.8	5.3	6.5	6.7	5.0	6.7
PASSPORT	7.7	6.8	5.7	8.9	5.5	6.3	6.7	5.5	6.7
SALINAS (PST-2SLX)	8.7	6.7	5.7	8.7	5.3	6.8	7.0	5.7	6.7
PST-2LA	8.3	6.9	5.7	8.3	5.5	6.8	7.0	5.3	6.7
SR 4420 (SRX 4820)	8.3	6.8	5.0	8.9	5.3	6.5	7.3	5.0	6.7
PICK EX2	8.0	6.7	6.7	9.0	5.3	6.3	6.7	5.5	6.7
MONTEREY II (JR-187)	8.7	6.8	5.0	8.9	5.3	6.7	7.0	5.3	6.7
PANTHER	8.3	6.7	4.7	9.0	5.4	6.5	7.0	5.5	6.7
ASCEND	9.0	6.7	6.3	8.8	5.3	6.5	6.7	5.0	6.7
JR-128	8.3	6.5	5.7	8.8	5.5	6.5	7.0	5.5	6.7
CITATION FORE (PST-2BR)	8.3	6.8	4.7	8.7	5.4	6.8	6.7	5.0	6.7
DIVINE	8.3	6.8	5.7	8.9	5.4	6.3	6.3	5.2	6.7
BARLENNIUM	9.0	6.6	5.3	8.8	5.3	6.7	6.3	5.5	6.7
SR 4350 (APR 1237)	8.3	6.8	5.3	8.8	5.2	7.0	6.7	5.2	6.7
SR 4500	9.0	6.9	4.7	8.7	5.3	6.5	6.7	5.0	6.7
ADMIRE (JR-151)	8.0	6.7	6.0	8.8	5.3	6.5	7.3	5.5	6.7
SUNKISSED (ABT-99-4.834)	9.0	6.6	4.3	8.7	5.7	6.8	6.3	5.2	6.7
GATOR 3 (CIS-PR-85)	8.0	6.8	5.7	8.7	5.3	6.7	7.3	5.0	6.7
APR 776	9.0	6.8	5.0	8.9	5.2	6.5	6.3	5.0	6.7
PST-2JH	8.0	6.8	4.7	8.7	5.4	6.2	7.0	5.5	6.7
ABT-99-4.560	8.7	6.9	5.0	8.5	5.3	6.5	6.7	5.2	6.7
TERRADYNE (A5C)	8.7	6.5	5.0	8.6	5.7	6.5	7.3	4.8	6.7
PREMIER II	9.0	6.8	5.3	8.7	5.5	6.5	6.3	4.8	6.7
AMAZING (B1)	8.3	6.8	5.3	8.6	5.4	6.5	6.0	4.8	6.7
RACER II (PICK RC2)	8.3	6.8	5.7	8.6	5.3	6.5	7.3	5.3	6.7
COURAGE (MB 410)	8.3	6.8	4.7	8.8	5.4	6.7	6.3	4.8	6.6
PENTIUM (NJ-6401)	8.3	6.9	5.0	8.6	4.8	6.7	7.0	5.5	6.6
SEVILLE II	8.3	6.8	5.3	8.8	5.3	6.7	7.0	5.0	6.6
STELLAR (CIS-PR-72)	8.0	6.6	6.0	8.7	5.3	6.7	6.7	5.0	6.6
CHARGER II	9.0	6.7	5.3	8.8	5.4	6.2	6.7	4.7	6.6
MP88	8.7	6.7	5.3	8.6	5.2	7.2	6.3	5.3	6.6
LS 2100 (PST-2SBE)	8.0	6.5	4.3	8.4	5.7	6.5	7.0	5.5	6.6
JET	8.3	6.4	5.0	8.5	5.4	6.2	7.7	5.3	6.6
KOKOMO (CIS-PR-69)	8.7	6.8	5.0	8.8	5.2	6.5	6.7	5.2	6.6
GALLERY (MB 412)	8.7	6.5	5.0	8.8	5.4	6.8	6.7	4.8	6.6
SPLENDID (MB 411)	8.7	6.5	5.0	8.8	5.3	6.7	7.0	5.3	6.6
MAJESTY	9.0	6.4	5.7	8.9	5.2	6.5	7.0	5.2	6.6

TABLE 9. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
	KY1	MI1	MT1	NE1	QE1	SD1	WA4	WI1	MEAN
ABT-99-4.600	8.3	6.7	5.0	8.8	5.3	6.5	6.7	5.5	6.6
PICK PR QH-97	9.0	6.8	5.3	8.3	5.3	6.7	6.7	5.5	6.6
MACH 1 (ROBERTS-627)	8.7	6.8	5.3	8.3	5.3	7.3	7.3	5.5	6.6
BRIGHTSTAR II	8.7	6.7	5.3	8.4	5.3	7.0	6.7	5.2	6.6
EXTREME (JR-317)	8.3	6.5	6.0	8.7	5.3	6.7	6.7	5.0	6.6
SECRETARIAT	8.0	6.5	5.7	8.9	5.2	6.3	7.3	5.0	6.6
DAZZLE (ABT-99-4.724)	9.0	6.7	4.7	8.8	5.3	6.7	6.0	5.2	6.6
GRAND SLAM 2L96 (PST-2L96)	8.0	6.8	5.0	8.5	5.3	6.8	6.7	5.0	6.6
BRIGHTSTAR SLT (PST-2A6B)	8.7	6.8	5.0	8.7	5.2	6.5	7.0	5.5	6.6
HEADSTART	8.3	6.7	5.3	8.8	5.3	6.3	6.0	5.2	6.6
PICK PR B-97	8.3	6.5	5.3	8.4	5.5	7.0	6.0	4.8	6.6
APR 1231	8.7	6.5	5.0	8.9	5.3	6.5	7.0	5.2	6.6
PST-2CRR	8.0	6.8	5.0	8.6	5.2	6.5	6.7	4.8	6.6
FIESTA 3	8.7	6.5	6.3	8.7	5.2	6.5	7.0	5.3	6.6
WVPB-R-82	8.7	6.8	5.7	8.6	5.4	6.0	6.7	5.0	6.6
SRX 4120	8.7	6.3	5.7	8.6	5.3	6.2	6.7	6.0	6.6
MP103	8.3	6.5	5.0	8.7	5.2	6.8	6.3	5.3	6.6
EXACTA	8.7	6.6	5.0	8.4	5.4	6.5	6.7	5.3	6.6
ICON (MB 414)	8.7	6.7	5.3	8.5	5.3	6.7	7.0	5.3	6.6
PENNANT II	8.3	6.7	5.3	8.6	5.2	6.3	7.0	5.5	6.6
PACESETTER (6011)	8.3	6.8	5.0	8.3	5.3	6.5	7.3	5.5	6.6
APR 1232	8.7	6.6	5.0	8.8	5.4	6.2	6.3	5.0	6.6
IQ (CIS-PR-75)	8.7	6.3	5.3	8.3	5.5	6.8	7.0	5.3	6.6
CRUISER (ABT-99-4.709)	8.3	6.3	5.3	8.8	5.3	6.5	6.3	5.0	6.6
PST-2RT	8.0	6.5	5.0	8.6	5.4	6.5	6.3	5.3	6.6
ARRIVAL (CIS-PR-84)	9.0	6.4	5.7	8.3	5.3	6.3	6.3	5.7	6.6
INSPIRE (R8000)	8.7	6.6	5.3	8.8	5.2	6.8	6.3	5.0	6.6
ELFKIN	8.3	6.8	5.3	8.3	5.3	6.7	7.0	5.2	6.6
PR 1-94 (PICK PR 1-94)	8.7	6.4	6.0	8.6	5.3	6.5	6.0	4.8	6.6
ABT-99-4.339	8.0	6.5	6.3	8.9	5.2	6.7	5.7	5.2	6.6
ABT-99-4.965	8.3	6.6	5.3	8.4	5.3	6.7	6.3	5.2	6.6
PEARL II (EPD)	8.3	6.4	5.0	8.5	5.6	6.8	6.0	5.2	6.6
MEPY	8.7	6.6	5.0	8.5	5.3	6.5	6.3	5.2	6.6
SR 4220 (SRX 4801)	9.0	6.6	4.3	8.5	5.3	6.3	6.7	5.3	6.6
NEXUS	8.0	6.5	5.0	8.3	5.4	7.2	6.7	5.2	6.6
PIZZAZZ	8.3	6.6	5.3	8.8	5.0	6.7	6.7	5.3	6.6
ABT-99-4.815	8.3	6.7	5.0	8.8	5.2	6.7	5.7	5.0	6.6
PLEASURE XL	8.7	6.6	5.3	8.6	5.3	6.7	6.3	5.0	6.6
RENAISSANCE (APR 1233)	8.3	6.6	5.7	8.8	5.3	6.2	6.0	5.2	6.6
QUEST II (ABT-99-4.721)	8.7	6.7	4.3	8.5	5.3	6.8	6.0	5.2	6.6
MP107	8.7	6.8	5.7	8.5	5.0	6.8	6.7	5.2	6.5
AFFIRMED	9.0	6.6	4.3	8.7	5.3	6.2	6.3	5.0	6.5
MANHATTAN 4 (PST-2CRL)	8.7	6.8	5.3	8.2	5.4	6.5	6.7	5.3	6.5
CABO (CIS-PR-80)	8.0	6.4	5.7	8.6	5.3	6.3	6.7	5.2	6.5
DP LP-1	8.0	6.8	6.0	8.4	5.3	6.0	6.7	5.2	6.5
APR 1235	8.3	6.3	5.0	8.7	5.4	6.0	7.3	5.2	6.5
PHANTOM	8.7	6.4	6.0	8.4	5.3	6.5	6.7	5.2	6.5

TABLE 9. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
	KY1	MI1	MT1	NE1	QE1	SD1	WA4	WI1	MEAN
CATALINA II (PST-CATS)	8.0	6.6	5.3	8.3	5.5	6.5	6.3	4.8	6.5
DLF-LDD	8.7	6.8	5.0	8.2	5.3	6.7	6.0	5.5	6.5
SKYHAWK	9.0	6.5	5.3	8.3	5.1	6.7	6.7	5.5	6.5
PALMER III	8.7	6.3	4.7	8.7	5.2	6.5	7.3	5.0	6.5
PROMISE	8.3	6.3	4.7	8.7	5.3	6.5	6.3	4.8	6.5
LINE DRIVE	8.7	6.6	6.3	8.2	5.1	6.2	6.7	5.2	6.5
LPR 98-143	8.7	6.3	5.7	8.8	5.2	6.0	6.3	5.0	6.5
ALLSPORT	8.7	6.5	5.0	8.3	5.3	6.3	6.7	5.2	6.5
CHURCHILL	9.0	6.4	5.0	8.4	5.3	6.7	6.7	4.7	6.5
SUMMERSET (MB 413)	8.7	6.3	4.3	8.6	5.3	6.7	6.3	5.0	6.5
PARADIGM (APR 1236)	8.3	6.3	5.3	8.7	5.3	6.5	5.7	5.2	6.5
BY-100	8.3	6.5	5.3	8.5	5.3	6.0	6.7	5.0	6.5
ALL STAR2 (CIS-PR-78)	8.7	6.4	5.0	8.4	5.3	6.5	6.3	4.7	6.5
KOOS R-71	8.7	6.7	6.0	8.6	4.9	6.2	6.7	5.2	6.5
RADIANT	8.7	6.4	4.7	8.5	5.2	7.0	6.3	5.0	6.5
PST-2M4	8.0	6.5	5.0	8.6	5.3	6.2	6.0	5.2	6.5
CATALINA	8.0	6.8	4.7	8.4	5.1	6.7	6.7	5.3	6.5
MANHATTAN 3	7.7	6.9	5.0	8.4	5.2	5.7	6.3	4.8	6.5
DP 17-9391	8.3	6.5	5.3	8.4	5.2	6.3	6.7	5.2	6.4
EDGE	8.0	6.7	6.0	8.1	5.4	5.7	6.7	5.3	6.4
MDP	8.7	6.3	5.3	8.4	4.9	7.0	6.3	5.3	6.4
WILMINGTON	8.7	6.4	5.0	8.1	5.3	6.5	6.7	4.8	6.4
CALYPSO II	8.3	6.4	6.0	8.2	5.3	6.2	7.3	5.2	6.4
CATHEDRAL II	8.0	6.5	4.7	8.1	5.4	6.7	7.0	5.2	6.4
RACER	8.0	6.2	5.0	8.4	5.3	6.3	7.3	5.2	6.4
DP 17-9069	8.3	6.7	.	8.2	5.1	6.3	6.7	5.2	6.4
CAS-LP84	8.3	6.5	4.3	8.3	5.2	6.8	6.7	5.2	6.4
EP53	8.7	5.8	5.0	8.7	5.3	6.5	6.0	5.3	6.4
PROWLER (APR 777)	8.0	6.3	5.0	8.6	5.3	6.0	7.0	4.8	6.4
WVPB-R-84	8.0	6.6	5.0	8.7	4.8	5.7	6.7	4.8	6.4
YATSUGREEN	8.3	6.5	5.7	8.3	5.2	5.5	7.7	4.7	6.4
AFFINITY	8.0	6.2	5.3	8.7	5.3	6.0	6.3	4.7	6.4
PROSPORT (AG-P981)	8.3	6.5	4.7	8.3	5.3	6.2	7.0	4.7	6.4
LTP-ME	7.7	6.4	5.0	8.0	5.5	6.3	5.7	4.8	6.4
SUPERSTAR (EP57)	8.3	6.6	5.0	8.0	5.3	6.5	6.3	4.8	6.4
PROTYME (ABT-99-4.625)	8.0	6.6	5.0	8.3	4.9	6.0	6.0	4.8	6.4
PREMIER	7.7	6.2	5.0	8.5	5.1	6.3	7.3	5.0	6.4
APR 1234	8.7	6.3	5.3	7.8	5.1	5.5	7.0	4.8	6.2
BUCCANEER	7.3	6.4	4.7	8.1	4.8	5.2	7.7	4.7	6.2
DP 17-9496	7.3	6.5	4.3	7.4	5.2	4.2	7.0	4.0	6.0
LINN	6.0	5.5	4.7	5.5	5.0	4.0	6.7	3.5	5.1
LSD VALUE	0.9	0.9	1.3	0.9	0.9	0.7	1.1	1.0	0.4
C.V. (%)	6.7	8.7	14.9	6.6	10.7	6.9	10.2	12.3	8.7

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 10.

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	KY1	MI1	MT1	NE1	NJ1	NY1	PA1	QE1	SD1	UT1	WA3	WA4	WI1	MEAN
PENTIUM (NJ-6401)	8.3	7.4	7.5	8.9	7.7	4.3	7.4	5.7	7.3	6.0	8.7	7.7	5.7	7.2
SR 4500	9.0	7.0	7.5	9.0	7.0	4.3	8.1	5.8	6.7	5.7	8.7	8.0	5.7	7.1
CHARISMATIC (LTP 98-501)	9.0	7.2	6.7	9.0	6.3	4.7	7.7	5.8	6.8	5.3	8.7	7.7	5.7	7.0
QUEST II (ABT-99-4.721)	9.0	7.2	6.7	9.0	6.0	5.0	8.0	5.8	6.3	5.7	8.7	8.0	5.3	7.0
PINNACLE II (BAR 9 B2)	8.7	7.1	7.2	8.7	6.3	4.3	7.8	5.7	7.0	5.0	8.0	7.3	5.3	7.0
DLF-LDD	9.0	6.9	6.8	8.8	7.3	4.3	7.8	5.9	6.7	5.7	7.7	7.7	5.3	7.0
BLAZER IV (PICK MDR)	8.7	7.0	6.3	8.9	7.0	5.0	7.7	5.7	6.8	5.0	8.7	7.7	5.7	6.9
INSPIRE (R8000)	8.7	7.1	7.3	8.8	5.7	4.7	7.6	5.7	6.8	5.7	8.7	7.7	5.7	6.9
ABT-99-4.115	9.0	6.8	6.7	8.7	7.0	4.7	7.9	5.7	6.2	5.7	8.0	7.7	5.3	6.9
CITATION FORE (PST-2BR)	9.0	7.3	6.3	8.8	6.7	4.7	7.4	5.7	6.8	5.0	8.7	8.0	5.3	6.9
APPLAUD (PENNINGTON-11301)	8.7	6.7	7.2	9.0	7.7	4.3	7.4	5.8	7.0	5.0	8.3	7.7	6.3	6.9
SR 4220 (SRX 4801)	9.0	7.0	6.7	8.7	7.0	4.3	7.9	5.7	6.5	5.0	8.3	7.7	5.7	6.9
JET	9.0	6.8	6.2	8.4	7.3	4.7	7.3	5.8	7.0	5.7	8.7	8.0	5.7	6.9
HAWKEYE (SRX 4RHT)	8.0	6.8	7.2	8.7	6.0	4.7	7.7	5.8	7.0	5.3	8.7	7.7	5.3	6.9
MACH 1 (ROBERTS-627)	9.0	7.3	6.3	8.4	7.3	4.3	7.7	5.7	7.0	5.7	8.7	7.7	6.0	6.9
GATOR 3 (CIS-PR-85)	8.7	7.0	6.7	8.7	7.3	4.3	7.2	5.8	6.3	5.3	8.7	7.0	5.0	6.9
PST-2LA	8.7	6.8	7.3	8.7	7.3	4.3	7.8	5.7	6.7	5.0	8.0	8.0	5.3	6.9
PACESETTER (6011)	8.7	6.7	6.8	8.7	6.7	5.0	7.4	5.8	6.8	6.0	8.3	7.3	5.7	6.9
PREMIER II	8.3	6.9	6.3	8.7	6.0	4.3	7.6	5.7	7.5	5.7	8.3	7.3	5.3	6.8
SPLENDID (MB 411)	9.0	6.8	7.2	8.9	5.7	4.3	7.6	5.5	6.7	5.3	8.7	8.0	5.7	6.8
PICK PRNGS	8.3	6.8	6.7	8.9	6.3	4.0	7.7	5.7	6.5	5.3	8.7	7.7	5.7	6.8
SEVILLE II	8.3	6.9	6.7	8.9	6.0	4.3	7.4	5.7	6.5	6.0	8.7	7.7	5.7	6.8
GRAND SLAM 2L96 (PST-2L96)	8.3	6.8	7.3	8.9	6.7	5.0	7.3	5.6	7.0	5.0	8.0	7.7	5.7	6.8
SR 4420 (SRX 4820)	8.3	6.8	7.3	8.8	7.0	4.7	7.2	5.8	6.2	5.3	8.3	8.0	6.0	6.8
DAZZLE (ABT-99-4.724)	8.7	6.8	5.8	8.8	6.0	5.0	7.7	5.5	6.8	5.3	8.7	8.0	5.7	6.8
ABT-99-4.560	8.7	7.0	6.7	8.7	6.0	5.0	7.4	5.5	6.5	5.7	8.3	7.7	5.7	6.8
KOKOMO (CIS-PR-69)	8.7	6.8	6.0	8.9	5.7	4.7	7.7	5.8	6.3	5.3	8.3	7.7	6.3	6.8
ABT-99-4.464	8.0	6.8	6.7	9.0	6.7	5.7	7.6	5.7	6.2	5.7	8.0	7.0	5.7	6.8
BRIGHTSTAR II	8.3	6.7	6.8	8.6	6.7	5.0	6.9	5.6	6.5	5.7	9.0	7.3	5.3	6.8
SR 4350 (APR 1237)	8.7	6.9	6.5	8.8	5.3	4.3	7.6	5.7	6.7	5.0	7.7	7.7	5.7	6.8
MAJESTY	9.0	6.6	6.8	8.9	5.3	4.0	7.6	5.7	6.2	6.0	8.7	7.7	5.7	6.8
DIVINE	8.3	6.8	6.8	8.8	5.0	4.0	7.6	5.7	6.3	7.0	8.7	7.3	5.3	6.8
SALINAS (PST-2SLX)	8.7	6.7	7.0	8.8	5.7	4.7	7.4	5.7	6.8	5.0	9.0	7.3	5.0	6.8
SUNKISSED (ABT-99-4.834)	9.0	6.6	6.2	8.8	8.0	4.7	7.3	5.8	6.8	5.0	8.7	7.7	5.0	6.8
PST-2RT	8.7	6.8	6.7	8.8	7.3	4.7	7.2	5.8	6.2	5.7	8.3	7.3	5.3	6.8
APR 1231	8.3	6.7	6.2	8.7	6.3	5.0	7.9	5.6	6.2	4.7	8.3	7.7	5.0	6.8
PST-2JH	8.0	6.8	7.0	8.4	6.3	5.3	7.3	5.8	6.3	5.7	7.7	7.7	5.3	6.8
LS 2100 (PST-2SBE)	8.0	6.8	6.3	8.6	6.0	5.3	7.7	5.7	6.3	5.0	8.3	7.7	5.3	6.8
AFFIRMED	8.3	6.8	6.3	8.9	5.3	5.0	7.6	5.8	6.5	5.7	8.3	7.7	5.0	6.8
MONTEREY II (JR-187)	8.0	6.8	6.3	8.7	5.3	5.7	7.8	5.6	6.2	6.3	8.0	7.7	5.3	6.8
PIZZAZZ	9.0	6.5	6.5	8.8	8.0	4.3	7.6	5.6	6.7	5.3	8.7	7.7	5.3	6.8
PICK PR B-97	8.7	6.9	6.3	8.6	5.3	4.7	7.2	5.6	7.0	5.3	8.3	8.0	5.3	6.8
RACER II (PICK RC2)	8.3	6.8	6.7	8.4	6.0	4.7	6.9	5.7	7.0	6.0	8.7	8.0	6.0	6.8
CATHEDRAL II	8.3	6.6	6.3	8.9	5.3	5.0	7.7	5.8	7.0	5.0	8.0	7.7	6.0	6.8
PICK PR QH-97	9.0	6.8	6.5	8.6	5.7	5.0	7.3	5.6	6.8	5.3	8.3	7.7	5.3	6.8
SECRETARIAT	8.3	6.9	6.2	8.7	6.0	4.7	7.6	5.5	5.8	5.7	8.3	7.7	5.0	6.7

TABLE 10. (CONT'D)

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	KY1	MI1	MT1	NE1	NJ1	NY1	PA1	QE1	SD1	UT1	WA3	WA4	WI1	MEAN
COURAGE (MB 410)	8.0	6.7	6.8	8.9	5.3	4.7	7.1	5.8	6.5	5.7	8.7	8.0	5.0	6.7
ARRIVAL (CIS-PR-84)	8.0	6.6	6.3	8.4	6.7	5.0	7.4	5.8	6.3	5.7	8.3	7.0	5.7	6.7
PARAGON	8.3	6.9	5.8	8.8	6.7	4.0	7.1	5.8	6.7	5.0	8.0	8.0	5.3	6.7
PLEASURE XL	8.7	6.6	6.5	8.7	6.0	4.7	7.6	5.7	6.3	5.3	8.3	7.7	5.0	6.7
AMAZING (B1)	8.3	6.9	6.5	8.7	6.0	3.7	7.0	5.7	6.8	6.0	8.0	7.7	5.3	6.7
IQ (CIS-PR-75)	8.0	6.6	6.7	8.4	4.3	4.7	7.6	5.7	6.8	5.7	8.3	7.7	5.3	6.7
BRIGHTSTAR SLT (PST-2A6B)	8.0	6.8	7.0	8.6	6.0	5.0	7.6	5.7	6.3	4.7	8.0	6.7	5.3	6.7
LPR 98-144	8.3	6.8	6.2	8.9	5.3	5.0	7.4	5.6	6.2	5.3	8.7	7.3	5.3	6.7
NEXUS	8.0	6.8	6.7	8.6	6.7	4.3	6.9	5.8	7.0	5.0	8.7	7.7	5.3	6.7
PR 1-94 (PICK PR 1-94)	8.7	6.6	6.7	9.0	5.3	5.0	7.1	5.7	6.8	5.3	7.7	7.7	5.3	6.7
PROMISE	8.7	6.4	6.0	8.9	6.7	3.7	7.3	5.8	6.7	5.3	8.7	7.3	5.0	6.7
ABT-99-4.815	9.0	6.4	6.8	8.8	5.7	4.7	7.1	5.7	6.5	5.7	9.0	7.3	5.3	6.7
MANHATTAN 4 (PST-2CRL)	8.7	6.3	7.2	8.8	5.0	5.0	7.7	5.7	6.7	5.3	8.7	8.0	5.0	6.7
ICON (MB 414)	8.7	6.7	6.8	8.9	4.7	4.7	7.1	5.4	6.5	5.3	8.7	8.0	5.3	6.7
PROWLER (APR 777)	7.3	6.5	7.5	8.8	4.7	5.0	7.2	5.7	5.8	5.3	8.7	7.7	5.3	6.7
ADMIRE (JR-151)	7.7	6.7	7.2	8.7	4.3	5.0	7.7	5.8	6.2	5.0	8.0	7.7	5.7	6.7
CALYPSO II	8.3	6.7	6.0	8.3	6.0	4.3	7.4	5.8	6.3	5.3	8.3	8.0	5.7	6.7
PANTHER	8.7	6.5	6.7	8.9	5.0	4.3	7.6	5.6	6.3	6.0	8.3	8.0	5.7	6.7
ELFKIN	8.0	6.8	6.3	8.6	5.3	4.7	7.4	5.8	6.5	5.3	8.0	8.0	5.7	6.7
STELLAR (CIS-PR-72)	8.0	6.7	7.3	8.3	5.3	4.3	7.6	5.1	6.7	5.7	8.0	7.7	5.7	6.7
PENNANT II	8.0	6.4	7.2	8.8	5.7	4.0	7.3	5.8	6.2	5.0	8.7	7.7	6.0	6.7
CHURCHILL	8.7	6.5	7.2	8.6	4.7	4.0	7.3	5.7	6.8	5.3	8.3	7.7	5.3	6.7
EXACTA	8.0	6.6	6.7	8.6	5.3	5.0	7.6	5.6	6.5	5.7	7.7	7.3	6.0	6.7
MP88	9.0	6.3	6.7	8.6	5.0	5.0	7.3	5.8	6.5	6.0	8.0	8.0	5.7	6.7
DP 17-9069	8.3	7.1	.	8.1	5.0	5.7	7.2	5.6	5.7	5.0	7.7	7.3	5.7	6.6
DP 17-9391	7.7	6.8	6.3	8.7	6.0	5.7	7.6	5.4	6.7	4.7	8.0	7.0	5.0	6.6
LTP-ME	7.7	6.8	6.8	8.2	5.3	4.3	7.3	5.7	6.3	5.0	7.7	7.3	4.7	6.6
BARLENNIUM	8.3	6.4	6.0	8.6	5.3	4.0	7.3	5.8	6.7	5.7	9.0	7.7	5.7	6.6
EXTREME (JR-317)	8.0	6.6	6.8	8.4	4.3	5.0	7.3	5.7	6.5	5.7	8.3	7.7	5.3	6.6
LINE DRIVE	8.3	6.5	7.3	8.9	4.7	5.3	7.3	5.6	5.8	5.3	8.7	7.0	5.3	6.6
PEARL II (EPD)	8.0	6.7	6.3	8.8	3.7	4.7	7.2	5.8	6.3	5.7	8.0	7.3	5.3	6.6
CHARGER II	7.3	6.8	6.7	8.8	5.7	4.7	7.3	5.8	6.0	5.3	8.3	7.3	5.3	6.6
RADIANT	8.3	6.3	6.5	8.9	5.7	4.3	7.2	5.7	6.7	4.3	9.0	8.0	5.3	6.6
APR 1232	8.7	6.3	7.0	8.8	5.3	4.3	7.6	5.3	6.0	5.3	8.7	7.7	5.3	6.6
FIESTA 3	8.7	6.7	6.8	8.6	6.0	4.3	6.8	5.4	6.5	5.3	8.3	8.0	5.7	6.6
GALLERY (MB 412)	8.0	6.4	7.0	8.7	5.7	5.0	6.9	5.6	6.7	5.3	8.7	8.0	5.7	6.6
RENAISSANCE (APR 1233)	7.3	6.6	6.7	8.4	5.7	5.0	7.2	5.6	6.2	5.0	8.7	7.3	5.7	6.6
JR-128	8.7	6.3	7.2	8.7	6.0	4.3	7.1	5.8	6.3	5.0	8.0	7.0	5.3	6.6
BY-100	8.3	6.7	6.2	8.8	3.7	4.0	7.3	5.8	6.3	5.0	7.7	7.3	5.3	6.6
ABT-99-4.965	7.3	6.7	7.5	8.7	5.0	4.3	7.0	5.6	6.3	5.0	8.3	7.7	5.0	6.6
MEPY	7.7	6.7	6.2	8.6	4.0	5.0	7.0	5.6	6.2	5.0	8.0	7.3	5.3	6.6
SUMMERSSET (MB 413)	8.3	6.3	6.2	9.0	6.0	5.3	7.4	5.3	6.7	4.7	9.0	7.3	5.3	6.6
PST-2M4	8.3	6.7	6.3	8.6	5.7	4.7	7.0	5.6	6.2	5.0	8.3	7.3	5.3	6.6
APR 776	9.0	6.6	6.8	8.8	5.7	5.3	7.4	5.0	6.3	5.3	8.7	7.7	5.3	6.6
ABT-99-4.600	8.7	6.7	6.5	8.8	5.3	5.3	6.8	5.7	6.0	5.3	8.0	7.3	5.7	6.6
ALL STAR2 (CIS-PR-78)	8.7	6.5	6.3	8.4	5.7	5.0	7.2	5.8	6.8	5.7	8.3	7.3	5.0	6.6
SRX 4120	7.0	6.4	6.8	8.4	4.7	5.0	7.1	5.8	5.7	5.7	8.7	7.3	5.7	6.6

TABLE 10. (CONT'D)

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	KY1	MI1	MT1	NE1	NJ1	NY1	PA1	QE1	SD1	UT1	WA3	WA4	WI1	MEAN
AFFINITY	8.0	6.5	6.5	8.7	5.7	4.3	7.4	5.7	5.7	6.0	8.0	7.3	5.0	6.6
ALLSPORT	8.0	6.4	6.3	8.7	4.7	4.7	7.3	5.7	6.2	5.0	8.3	7.7	5.3	6.6
CRUISER (ABT-99-4.709)	7.3	6.4	6.5	8.8	5.7	5.3	6.6	5.7	6.3	5.3	8.3	7.7	5.0	6.6
PST-2CRR	8.3	6.8	5.8	8.6	5.3	4.3	7.1	5.3	6.3	5.7	8.3	7.7	5.7	6.6
CATALINA	7.7	6.4	7.3	8.5	4.7	5.0	7.3	5.6	6.2	6.0	8.3	7.7	5.0	6.6
PARADIGM (APR 1236)	7.7	6.6	6.8	8.8	6.0	4.7	6.4	5.5	6.5	4.3	8.3	7.7	5.0	6.6
PALMER III	7.7	6.3	7.0	8.9	5.3	5.0	6.8	5.7	6.0	5.7	8.3	7.3	5.7	6.6
ABT-99-4.339	8.3	6.3	6.8	8.7	5.3	4.7	7.3	5.8	6.0	5.0	8.0	6.7	5.3	6.5
CABO (CIS-PR-80)	7.3	6.3	7.2	8.6	4.3	4.0	7.3	5.7	6.0	5.0	8.3	7.3	5.0	6.5
MP107	8.0	6.5	6.7	8.6	4.7	5.3	6.9	5.4	6.5	6.7	8.0	7.7	5.7	6.5
PASSPORT	7.0	6.5	6.7	8.9	5.0	4.7	6.7	5.6	6.5	5.3	8.3	7.7	5.7	6.5
APR 1235	7.0	6.6	6.5	8.4	5.7	4.0	6.9	5.8	5.8	5.3	9.0	7.3	5.3	6.5
WILMINGTON	8.7	6.4	7.0	8.4	5.0	4.7	7.0	5.5	6.8	5.0	8.7	7.0	5.0	6.5
MDP	7.7	6.5	6.5	8.3	4.3	4.3	7.3	5.5	5.7	5.7	8.3	7.7	5.3	6.5
TERRADYNE (A5C)	8.3	6.3	6.2	8.7	4.7	4.0	7.1	5.6	6.2	5.3	8.3	8.0	5.0	6.5
PROSPORT (AG-P981)	8.7	6.7	6.8	8.4	4.0	4.7	7.1	5.4	6.0	5.0	8.0	7.3	5.0	6.5
DP LP-1	6.3	6.4	7.5	8.3	5.0	5.0	7.2	5.6	5.0	6.0	7.7	7.7	5.7	6.5
EDGE	7.7	6.4	6.8	8.0	4.0	4.3	7.6	5.8	6.3	5.3	7.7	7.3	5.3	6.5
SKYHAWK	7.3	6.4	6.5	8.7	4.7	5.0	7.0	5.6	6.2	5.7	7.7	7.7	5.3	6.5
CATALINA II (PST-CATS)	7.7	6.3	6.8	8.3	5.0	5.0	7.1	5.5	6.3	5.0	8.7	7.3	5.0	6.5
MANHATTAN 3	7.7	6.8	7.5	8.2	5.3	4.7	6.9	5.3	6.5	5.3	8.3	6.7	5.7	6.5
PICK EX2	7.0	6.4	6.7	8.8	4.3	4.7	6.9	5.6	6.0	5.7	8.7	7.7	5.3	6.5
HEADSTART	7.7	6.5	6.5	8.6	3.3	4.7	6.9	5.8	5.8	4.7	8.7	7.3	5.3	6.5
PHANTOM	7.3	6.3	7.0	8.6	4.0	5.7	7.0	5.8	5.8	5.7	8.7	6.7	5.3	6.5
ASCEND	8.3	6.4	6.5	8.6	5.3	5.0	6.7	5.7	6.5	5.0	8.3	7.3	4.7	6.5
CAS-LP84	7.3	6.3	6.7	8.6	3.7	4.7	7.3	5.5	6.2	6.0	7.3	6.7	5.7	6.5
KOOS R-71	7.0	6.6	6.5	8.7	4.3	5.3	6.8	5.5	5.5	6.0	8.3	6.3	5.3	6.4
MP103	8.3	6.6	6.5	8.6	3.7	4.0	6.6	5.6	5.7	5.7	8.0	7.7	5.7	6.4
RACER	7.0	6.5	6.2	8.4	4.7	5.0	6.8	5.8	6.2	5.0	8.7	6.7	5.0	6.4
EP53	8.0	6.0	6.0	8.7	4.3	5.0	7.2	5.7	5.8	5.7	8.3	7.3	5.7	6.4
SUPERSTAR (EP57)	8.7	6.3	6.7	8.3	4.0	4.0	7.2	5.5	5.8	5.0	8.3	7.7	5.0	6.4
LPR 98-143	7.7	6.5	7.0	8.4	4.3	4.0	6.4	5.6	6.5	5.3	8.3	6.7	5.7	6.4
WVPB-R-82	6.0	6.4	7.0	8.1	3.3	4.7	6.9	5.7	5.3	5.7	8.3	7.0	5.7	6.3
WVPB-R-84	6.3	6.5	7.0	8.6	5.0	4.7	6.8	5.2	5.5	5.0	8.7	6.7	5.0	6.3
YATSUGREEN	7.0	6.5	6.7	8.2	5.3	4.7	6.6	5.4	5.5	4.7	8.3	7.3	5.7	6.3
APR 1234	7.0	6.3	6.0	7.8	5.7	4.7	7.1	5.6	4.7	5.0	8.0	6.7	5.3	6.3
PREMIER	7.0	6.4	6.8	8.1	2.7	4.7	7.0	5.4	5.3	5.7	8.3	7.0	5.7	6.2
PROTYME (ABT-99-4.625)	7.3	6.4	6.7	8.2	4.7	3.3	6.4	5.0	5.7	4.7	7.7	7.0	5.0	6.2
BUCCANEER	6.0	6.3	7.3	7.9	4.0	5.0	6.3	5.2	5.2	5.3	7.7	6.7	4.3	6.1
DP 17-9496	5.7	6.6	6.8	7.4	2.0	4.3	6.6	5.3	4.2	3.7	7.3	7.0	3.7	6.0
LINN	4.0	5.4	6.7	5.6	1.0	4.3	5.3	5.2	3.3	3.0	7.0	6.0	3.0	4.9
LSD VALUE	1.0	1.0	2.0	0.8	1.7	1.3	1.2	0.8	0.9	1.3	0.9	1.1	0.9	0.5
C.V. (%)	7.6	9.8	18.0	5.5	19.2	17.0	10.2	8.7	9.2	15.3	6.7	8.9	10.5	10.1

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 11.

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	CA6	KY1	MI1	MT1	NE1	NJ1	NJ2	QE1	WA3	WA4	WI1	MEAN
MACH 1 (ROBERTS-627)	8.3	9.0	7.1	7.3	8.8	5.5	8.0	5.9	7.0	8.3	7.3	7.4
CITATION FORE (PST-2BR)	8.0	9.0	6.9	7.3	8.8	6.0	7.4	6.0	7.0	8.3	6.7	7.3
GATOR 3 (CIS-PR-85)	8.7	8.7	6.8	6.7	8.9	6.3	7.1	6.0	6.7	8.3	6.8	7.3
PENTIUM (NJ-6401)	8.0	9.0	6.8	8.7	8.7	6.7	7.1	5.8	7.0	8.2	6.3	7.3
APPLAUD (PENNINGTON-11301)	8.3	9.0	7.0	8.3	8.8	5.7	7.3	5.9	6.0	8.2	7.0	7.3
SR 4420 (SRX 4820)	8.0	9.0	6.8	8.0	8.9	6.0	6.8	6.0	6.0	8.3	6.7	7.2
SR 4220 (SRX 4801)	8.3	9.0	6.8	8.3	8.8	6.0	6.7	5.9	6.0	8.2	7.0	7.2
PIZZAZZ	6.3	9.0	6.4	7.3	8.8	6.7	7.1	6.0	6.7	8.3	6.7	7.2
PINNACLE II (BAR 9 B2)	8.0	8.3	6.7	8.0	8.6	5.8	7.0	6.0	6.7	8.3	6.8	7.2
CHARISMATIC (LTP 98-501)	8.3	9.0	6.8	7.3	8.8	5.7	7.1	6.0	6.3	8.2	6.7	7.2
MANHATTAN 4 (PST-2CRL)	8.7	9.0	6.8	8.7	8.8	6.0	6.0	5.9	7.0	8.5	6.7	7.2
RACER II (PICK RC2)	7.3	8.7	6.7	7.3	8.7	6.7	6.8	6.0	6.7	8.3	6.5	7.2
KOKOMO (CIS-PR-69)	8.3	9.0	6.7	7.0	8.8	5.8	7.0	6.0	6.3	8.2	6.5	7.2
SEVILLE II	8.3	9.0	6.8	8.0	8.9	6.2	6.0	6.1	6.7	8.0	6.7	7.1
QUEST II (ABT-99-4.721)	8.7	9.0	6.8	7.3	8.9	5.2	6.6	6.0	6.7	8.2	7.0	7.1
PST-2LA	8.7	8.0	6.7	8.3	8.8	6.5	5.8	6.0	7.0	8.3	6.8	7.1
SUNKISSED (ABT-99-4.834)	8.3	9.0	6.7	7.0	8.8	5.8	6.6	6.0	6.7	8.2	6.8	7.1
AMAZING (B1)	8.0	9.0	6.8	7.3	8.8	5.7	6.9	5.9	6.3	7.8	6.8	7.1
SR 4500	9.0	9.0	6.6	8.7	8.2	6.3	6.6	5.9	6.7	8.0	6.8	7.1
PACESETTER (6011)	8.0	9.0	6.6	7.3	8.8	6.8	5.8	6.0	5.7	8.3	6.8	7.1
ALL STAR2 (CIS-PR-78)	7.7	9.0	6.5	7.0	8.8	6.0	7.0	5.9	5.7	7.8	6.8	7.1
DLF-LDD	8.0	9.0	6.8	7.7	9.0	4.8	6.4	5.9	6.3	8.3	6.8	7.0
STELLAR (CIS-PR-72)	8.0	9.0	6.8	7.7	8.4	6.2	6.3	5.9	5.7	8.0	6.7	7.0
DAZZLE (ABT-99-4.724)	8.3	9.0	6.5	6.7	8.9	5.2	6.4	6.0	6.0	8.3	6.8	7.0
INSPIRE (R8000)	8.3	8.7	6.4	8.7	8.9	5.2	6.1	6.0	6.7	8.3	6.7	7.0
JET	8.3	9.0	6.3	6.7	8.8	5.5	6.7	6.0	6.3	8.3	6.8	7.0
ABT-99-4.560	8.3	8.7	6.7	7.3	8.6	6.0	6.1	6.0	6.3	8.3	6.3	7.0
CALYPSO II	8.0	8.7	6.7	7.0	8.6	6.2	6.2	6.0	6.3	8.0	6.5	7.0
GALLERY (MB 412)	7.3	8.7	6.9	8.0	8.9	5.2	6.1	5.9	6.0	8.0	6.8	7.0
GRAND SLAM 2L96 (PST-2L96)	8.0	8.7	6.7	7.7	8.7	5.3	6.4	5.9	7.0	8.2	6.5	7.0
PREMIER II	8.0	9.0	6.8	7.3	8.8	5.3	6.0	5.8	6.7	8.0	6.8	7.0
ELFKIN	7.7	8.0	6.8	7.0	8.4	6.7	5.8	6.0	6.3	8.0	6.8	7.0
COURAGE (MB 410)	7.0	9.0	6.5	8.0	9.0	6.0	5.9	5.9	6.0	8.2	6.7	7.0
HAWKEYE (SRX 4RHT)	7.7	9.0	6.8	8.0	8.6	4.5	6.3	6.1	6.3	8.2	7.2	7.0
MAJESTY	7.7	9.0	6.5	7.7	8.9	5.3	6.0	5.9	6.7	8.0	6.8	7.0
FIESTA 3	8.3	8.3	6.8	6.7	8.5	5.3	6.4	6.0	6.3	8.2	6.7	7.0
BLAZER IV (PICK MDR)	8.0	8.3	6.8	7.0	8.8	5.2	6.4	5.9	6.3	8.0	6.7	7.0
IQ (CIS-PR-75)	8.3	7.7	6.4	7.3	8.8	5.8	6.1	6.0	6.7	8.0	6.8	7.0
ABT-99-4.115	8.0	8.3	6.5	7.7	8.8	5.2	6.6	5.9	6.3	8.0	6.8	7.0
APR 1232	8.0	8.0	6.6	8.0	8.8	6.2	5.6	5.9	6.7	7.8	6.7	6.9
PROMISE	8.0	8.7	6.3	7.3	8.7	5.8	6.2	5.9	6.0	8.3	6.5	6.9
BRIGHTSTAR II	8.0	8.3	6.6	7.7	8.7	5.7	5.6	5.9	7.0	8.3	6.5	6.9
EXACTA	8.0	8.7	6.3	7.0	8.5	6.2	5.9	6.0	6.7	8.0	6.5	6.9
RENAISSANCE (APR 1233)	8.0	7.3	6.5	7.3	8.7	6.3	5.7	6.0	6.7	8.0	6.5	6.9
PST-2JH	7.3	9.0	6.7	7.7	8.8	5.7	5.9	6.0	6.3	7.7	6.3	6.9
BRIGHTSTAR SLT (PST-2A6B)	8.3	8.7	6.5	7.7	8.6	5.7	6.0	5.9	6.3	8.0	6.5	6.9

TABLE 11. (CONT'D)

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	CA6	KY1	MI1	MT1	NE1	NJ1	NJ2	QE1	WA3	WA4	WI1	MEAN
BARLENNIUM	8.0	8.3	6.7	7.3	8.8	5.8	5.2	6.0	7.0	8.2	6.5	6.9
RADIANT	8.0	8.3	6.6	7.3	8.9	5.3	5.3	6.0	6.7	8.3	6.7	6.9
SALINAS (PST-2SLX)	8.3	8.7	6.5	7.3	8.8	5.7	5.3	6.0	6.7	8.2	6.8	6.9
ASCEND	7.7	8.7	6.8	7.3	8.9	5.5	5.3	6.0	6.3	7.8	6.7	6.9
APR 776	7.7	8.7	6.5	8.0	9.0	6.3	4.9	5.8	7.0	8.2	6.2	6.9
SPLENDID (MB 411)	7.0	8.3	6.7	8.3	8.6	5.2	5.7	5.9	7.0	8.2	6.7	6.9
MANHATTAN 3	8.3	8.7	6.8	8.0	8.6	5.3	5.3	6.0	7.0	8.2	6.0	6.9
PST-2M4	8.3	8.7	6.8	7.0	8.8	4.7	5.7	6.0	6.7	8.0	6.8	6.9
SUMMERSET (MB 413)	8.7	8.7	6.6	7.7	8.8	5.3	4.8	6.0	6.7	8.2	7.0	6.9
PICK PR B-97	8.0	8.7	6.5	6.7	9.0	4.8	5.7	6.0	6.7	8.0	6.8	6.9
NEXUS	7.3	8.7	6.3	6.3	8.4	6.2	5.8	6.0	6.3	8.0	6.7	6.9
PR 1-94 (PICK PR 1-94)	8.0	8.3	6.6	7.0	8.8	5.2	5.7	6.0	6.3	8.0	6.5	6.9
CABO (CIS-PR-80)	7.0	8.3	6.8	7.7	8.8	4.8	5.7	5.9	6.7	8.2	6.3	6.9
PICK PR QH-97	7.7	8.0	6.6	7.3	8.8	5.0	5.4	6.0	6.3	8.3	6.8	6.9
SRX 4120	8.3	8.0	6.8	7.0	8.5	5.7	5.4	5.9	6.7	8.0	6.3	6.9
PICK EX2	8.3	7.0	6.6	7.0	8.7	5.3	6.1	6.0	6.3	8.0	6.3	6.8
CHURCHILL	7.3	9.0	6.6	7.3	8.8	5.3	5.3	6.0	6.7	8.2	6.3	6.8
SR 4350 (APR 1237)	7.7	9.0	6.5	7.7	8.6	5.7	5.2	6.1	6.7	7.7	6.8	6.8
PST-2RT	7.7	9.0	6.4	7.3	8.8	5.5	5.4	6.0	6.3	8.2	6.5	6.8
PARAGON	8.3	7.7	6.6	6.7	8.6	5.5	5.7	6.0	6.3	8.0	6.7	6.8
ABT-99-4.464	8.3	8.7	6.2	7.0	8.8	4.7	6.2	6.0	6.3	8.2	6.7	6.8
LINE DRIVE	7.7	8.3	6.7	7.7	8.4	6.0	5.3	5.9	6.0	7.8	6.7	6.8
PLEASURE XL	8.7	8.7	6.8	7.0	8.9	4.7	5.2	5.9	6.3	8.0	6.7	6.8
AFFIRMED	8.0	8.0	6.7	6.7	8.8	4.8	5.8	5.9	6.3	8.2	6.7	6.8
ARRIVAL (CIS-PR-84)	7.7	8.7	6.5	7.7	8.8	4.0	6.2	6.0	6.3	8.3	6.2	6.8
MONTEREY II (JR-187)	8.0	8.0	6.7	7.3	8.8	4.7	5.7	6.0	5.7	8.0	6.7	6.8
DIVINE	8.3	8.0	6.6	7.7	8.8	5.5	5.1	5.9	6.7	7.7	6.7	6.8
ABT-99-4.339	8.3	8.7	6.5	7.3	8.7	5.0	5.6	6.0	6.7	7.7	6.7	6.8
PALMER III	8.0	5.7	6.6	8.0	8.7	5.2	5.7	6.0	6.3	8.2	6.7	6.8
APR 1235	8.3	8.0	6.4	7.3	8.9	5.8	4.9	6.0	6.3	7.8	6.2	6.8
LS 2100 (PST-2SBE)	7.7	9.0	6.4	6.7	8.6	5.5	5.1	6.0	7.0	8.3	6.5	6.8
APR 1231	8.3	8.3	6.4	7.0	8.9	5.3	5.4	5.8	6.3	7.7	6.7	6.8
CHARGER II	8.7	8.0	6.6	7.7	8.8	4.5	5.4	6.0	6.3	8.2	6.3	6.8
CRUISER (ABT-99-4.709)	7.3	8.0	6.4	7.3	8.9	5.5	5.4	5.8	6.3	7.8	6.5	6.8
ADMIRE (JR-151)	8.0	8.0	6.6	7.7	8.8	4.8	5.7	5.8	6.3	7.8	6.3	6.8
PROWLER (APR 777)	8.0	8.3	6.3	8.7	8.9	6.5	4.2	5.8	7.3	8.0	6.0	6.8
ICON (MB 414)	8.0	8.3	6.5	7.7	8.6	4.7	5.3	5.9	6.7	8.2	6.7	6.8
TERRADYNE (A5C)	8.0	8.0	6.6	6.7	8.8	5.2	5.0	6.1	6.3	8.3	6.3	6.8
PICK PRNGS	8.3	8.0	6.5	7.3	8.8	4.7	5.6	5.8	7.0	8.0	7.0	6.8
ABT-99-4.965	8.0	8.0	6.7	8.3	8.8	5.3	4.7	6.0	6.0	7.8	6.5	6.8
CATALINA II (PST-CATS)	8.3	7.7	6.6	7.7	8.7	4.3	5.4	6.0	7.0	8.2	6.7	6.8
CATHEDRAL II	8.7	8.0	6.8	7.7	8.9	4.8	5.1	6.0	5.3	8.2	6.2	6.8
PARADIGM (APR 1236)	8.0	8.7	6.2	7.7	8.8	5.5	4.9	6.1	6.7	8.0	6.0	6.8
WILMINGTON	8.3	8.7	6.5	8.0	8.6	5.8	4.1	5.8	6.3	8.3	6.7	6.8
MP107	7.3	8.0	6.5	7.0	8.7	6.2	4.9	5.9	6.0	8.0	6.5	6.7
MP88	7.7	8.0	6.9	7.3	8.5	5.5	4.8	6.0	6.3	7.7	6.7	6.7
SECRETARIAT	8.3	7.3	6.4	6.3	8.8	5.3	5.8	5.9	5.7	7.7	6.5	6.7

TABLE 11. (CONT'D)

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/											
	CA6	KY1	MI1	MT1	NE1	NJ1	NJ2	QE1	WA3	WA4	WI1	MEAN
PENNANT II	8.0	7.7	6.5	8.0	8.7	5.3	4.6	6.0	7.0	8.3	6.5	6.7
ABT-99-4.815	7.7	8.7	6.3	7.0	8.9	4.8	5.3	5.9	6.3	8.2	6.5	6.7
EXTREME (JR-317)	8.3	7.7	6.7	8.3	8.8	4.3	4.8	6.0	6.3	7.8	6.7	6.7
JR-128	8.0	7.7	6.3	7.7	8.9	5.2	4.8	6.0	6.3	8.3	6.3	6.7
PANTHER	8.7	6.3	6.8	6.7	8.8	4.5	5.2	6.0	5.7	8.2	6.5	6.7
PEARL II (EPD)	8.3	7.0	6.5	7.3	8.3	5.8	4.3	6.1	6.7	7.8	6.8	6.7
ABT-99-4.600	7.7	8.0	6.6	7.0	8.8	5.2	4.7	5.9	6.3	7.8	6.5	6.7
PASSPORT	8.0	6.7	6.5	7.7	8.8	5.5	4.2	5.8	7.0	8.0	6.8	6.7
MDP	8.0	7.0	6.5	7.3	8.8	4.3	5.0	5.9	6.7	8.2	6.7	6.6
CATALINA	8.0	6.3	6.5	8.7	8.5	4.5	5.0	5.9	7.0	8.0	6.5	6.6
AFFINITY	8.7	7.3	6.1	7.3	8.7	5.0	5.6	5.8	6.3	7.7	6.2	6.6
LTP-ME	7.3	6.3	6.6	7.3	8.5	5.2	5.1	6.0	5.7	8.2	6.3	6.6
PST-2CRR	8.0	6.7	6.6	6.7	8.9	4.5	5.1	5.8	6.7	8.0	6.3	6.6
DP LP-1	8.3	8.3	6.5	7.7	8.3	4.8	5.2	5.8	5.3	8.0	6.5	6.6
RACER	7.7	7.7	6.7	7.3	8.1	5.0	4.9	6.0	6.7	8.0	6.3	6.6
BY-100	8.0	7.7	6.5	7.3	8.8	4.8	5.4	5.6	5.7	8.0	6.0	6.6
YATSUGREEN	8.7	6.7	6.5	7.7	8.8	4.3	5.1	5.9	5.7	8.0	6.5	6.6
PHANTOM	8.7	7.0	6.8	7.3	8.8	4.5	4.3	6.0	6.7	8.0	6.2	6.6
WVPB-R-84	8.7	6.7	6.6	7.7	8.7	4.8	4.4	5.8	6.3	8.0	6.3	6.6
KOOS R-71	8.7	6.0	6.7	7.7	8.8	4.2	5.0	5.8	7.0	7.8	6.2	6.6
PROSPORT (AG-P981)	8.0	7.3	6.4	8.0	8.7	4.8	4.4	5.9	5.7	8.0	6.8	6.6
DP 17-9391	8.3	7.3	6.6	6.7	8.8	4.7	4.6	6.0	6.3	7.8	6.5	6.6
PROTYME (ABT-99-4.625)	7.3	7.3	6.6	7.7	8.7	5.3	4.7	5.8	5.7	7.8	6.0	6.6
CAS-LP84	8.0	7.3	6.6	7.0	8.7	4.3	4.7	6.0	5.7	8.0	6.7	6.6
MEPY	7.3	6.3	6.6	6.7	8.6	5.2	4.8	5.9	6.0	8.2	6.5	6.6
SKYHAWK	7.7	7.7	6.7	7.3	8.5	5.3	4.3	5.8	6.0	8.2	6.3	6.6
LPR 98-144	8.0	6.7	6.7	6.3	8.8	3.7	5.0	6.0	6.7	8.2	6.5	6.6
MP103	7.7	8.3	6.7	7.3	8.6	4.5	4.4	5.9	6.0	8.0	6.5	6.6
LPR 98-143	8.0	7.7	6.5	7.7	8.8	3.8	4.7	6.0	6.3	8.0	6.3	6.6
EP53	7.3	7.3	6.4	7.0	7.9	5.7	4.8	6.0	5.7	8.2	6.8	6.5
HEADSTART	8.3	6.3	6.5	7.7	8.4	4.2	4.6	5.9	7.3	8.2	6.7	6.5
SUPERSTAR (EP57)	8.3	7.7	6.4	7.7	8.4	5.2	4.1	6.0	6.0	8.2	6.0	6.5
DP 17-9069	8.7	7.3	6.4	.	8.3	4.2	5.1	6.0	5.7	7.8	6.5	6.5
BUCCANEER	8.0	6.7	6.4	7.3	8.4	5.3	4.6	5.8	5.3	7.8	6.0	6.5
PREMIER	8.3	6.7	6.1	6.7	8.7	5.2	4.6	5.8	5.7	7.7	6.2	6.5
ALLSPORT	7.7	6.3	6.5	6.7	8.8	4.2	4.1	6.0	6.7	8.0	6.5	6.4
EDGE	8.3	6.3	6.3	8.0	8.8	4.0	4.8	5.8	5.7	7.8	6.0	6.4
WVPB-R-82	7.7	5.3	6.3	7.0	8.8	4.2	4.2	6.0	6.0	7.7	6.5	6.4
APR 1234	7.0	6.3	6.2	6.7	8.7	5.2	4.0	5.9	5.3	7.3	5.8	6.3
DP 17-9496	8.7	5.0	6.3	8.0	8.1	3.5	3.2	5.6	5.0	7.0	5.2	5.8
LINN	7.7	4.0	5.6	6.3	6.5	1.7	1.0	5.2	5.0	7.0	3.8	4.7
LSD VALUE	1.1	1.3	0.8	1.8	0.9	1.7	1.9	0.4	0.9	0.6	1.0	0.5
C.V. (%)	8.7	10.0	7.9	14.9	6.3	20.4	21.4	4.6	8.8	4.9	9.1	10.9

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 12. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	IL2	KY1	MI1	MO1	NY2	QE1	SD1	WI1	MEAN
STELLAR (CIS-PR-72)	92.0	93.3	85.0	97.0	60.0	85.0	76.1	94.2	85.0
KOKOMO (CIS-PR-69)	95.3	95.7	84.2	96.0	68.3	93.3	71.1	92.3	83.3
COURAGE (MB 410)	93.3	96.3	85.8	98.0	65.0	86.7	68.9	93.3	83.0
ABT-99-4.115	97.0	92.7	84.2	97.0	68.3	85.0	75.6	92.8	82.9
SRX 4120	94.7	89.7	84.2	98.0	70.0	85.0	70.6	93.5	82.4
EXACTA	96.7	95.7	85.8	97.3	65.0	88.3	68.3	93.2	82.4
PST-2RT	97.3	98.7	83.3	98.3	66.7	85.0	66.7	95.5	82.3
SR 4500	96.3	97.7	84.2	98.0	68.3	90.0	66.1	93.3	82.2
PREMIER	98.0	85.0	80.0	97.0	65.0	88.3	71.1	95.0	82.2
YATSUGREEN	97.3	88.3	87.5	92.7	65.0	88.3	61.7	94.2	82.2
PST-2CRR	98.7	86.7	81.7	96.0	66.7	86.7	71.1	95.5	81.9
DP 17-9069	90.0	93.0	82.5	97.0	70.0	83.3	68.9	93.7	81.6
BY-100	94.0	99.0	83.3	98.0	66.7	88.3	62.2	94.3	81.5
KOOS R-71	94.7	86.3	86.7	93.7	71.7	80.0	63.1	94.3	81.4
PICK EX2	91.7	95.3	81.7	96.0	66.7	91.7	72.2	92.5	81.4
PARAGON	93.0	98.3	83.3	95.3	68.3	88.3	67.2	94.2	81.4
WVPB-R-84	99.0	88.3	79.2	97.0	70.0	88.3	72.8	94.5	81.2
ADMIRE (JR-151)	96.7	94.0	81.7	97.0	66.7	90.0	68.3	95.8	81.0
JET	90.7	95.0	81.7	97.0	68.3	85.0	66.7	93.3	80.9
SR 4420 (SRX 4820)	93.7	97.7	81.7	97.0	58.3	86.7	71.1	95.0	80.8
PST-2M4	94.7	96.0	80.8	97.0	71.7	81.7	68.3	93.7	80.8
PST-2JH	96.0	95.3	84.2	97.0	66.7	91.7	65.0	94.0	80.8
PENTIUM (NJ-6401)	94.3	97.7	86.7	97.0	66.7	90.0	64.4	91.2	80.8
PHANTOM	89.0	83.3	84.2	96.0	70.0	86.7	58.3	94.8	80.8
NEXUS	90.7	94.3	83.3	96.0	66.7	80.0	66.7	91.5	80.8
MANHATTAN 3	96.0	88.3	83.3	97.0	63.3	91.7	68.9	92.5	80.7
BUCCANEER	97.0	91.7	82.5	92.7	65.0	85.0	66.7	93.2	80.7
DAZZLE (ABT-99-4.724)	95.7	97.7	82.5	98.0	70.0	81.7	69.4	92.7	80.6
SPLENDID (MB 411)	89.3	95.7	84.2	97.0	63.3	83.3	65.6	92.7	80.6
EDGE	95.7	88.3	84.2	98.0	70.0	88.3	64.4	94.7	80.6
AFFINITY	95.7	97.3	81.7	97.0	65.0	90.0	62.8	92.7	80.5
MAJESTY	91.0	99.0	81.7	96.0	66.7	88.3	65.6	93.5	80.5
ALL STAR2 (CIS-PR-78)	90.7	95.3	84.2	96.0	63.3	85.0	67.8	89.5	80.5
CHARGER II	95.0	88.3	83.3	98.0	65.0	85.0	62.8	93.3	80.4
WVPB-R-82	96.3	82.3	83.3	92.0	63.3	86.7	70.4	94.5	80.4
PACESETTER (6011)	93.0	97.7	81.7	98.0	70.0	90.0	66.7	94.2	80.4
IQ (CIS-PR-75)	84.3	91.7	83.3	96.0	65.0	80.0	67.8	95.0	80.4
ABT-99-4.560	93.7	94.0	84.2	98.0	71.7	85.0	65.0	93.3	80.4
APR 776	96.3	97.7	80.0	98.0	61.7	85.0	71.1	92.7	80.2
MANHATTAN 4 (PST-2CRL)	94.0	98.3	83.3	97.0	68.3	80.0	66.1	93.3	80.2
PROWLER (APR 777)	97.3	92.3	80.8	98.0	66.7	86.7	65.0	93.3	80.2
CRUISER (ABT-99-4.709)	98.3	96.3	78.3	97.0	68.3	83.3	65.0	93.5	80.1
QUEST II (ABT-99-4.721)	92.0	98.7	82.5	98.0	66.7	85.0	68.2	91.8	80.1
SECRETARIAT	96.3	95.3	83.3	92.0	63.3	88.3	63.9	94.8	80.1
ABT-99-4.965	87.3	87.3	78.3	96.0	63.3	78.3	77.2	93.8	80.0
HAWKEYE (SRX 4RHT)	91.3	95.0	84.2	96.0	60.0	81.7	65.6	93.2	79.9
DLF-LDD	96.0	98.7	84.2	97.0	61.7	86.7	63.9	93.2	79.9

TABLE 12. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	IL2	KY1	MI1	MO1	NY2	QE1	SD1	WI1	MEAN
PIZZAZZ	97.0	98.3	84.2	92.0	63.3	90.0	62.8	91.8	79.8
AFFIRMED	96.0	96.3	85.0	98.3	68.3	90.0	55.6	95.3	79.8
LPR 98-144	87.3	84.7	81.7	89.3	70.0	83.3	71.1	94.5	79.8
ABT-99-4.815	82.7	93.0	80.8	97.0	68.3	90.0	67.8	94.3	79.8
ELFKIN	83.7	96.0	81.7	98.0	66.7	86.7	66.1	94.3	79.7
SR 4350 (APR 1237)	91.7	98.7	78.3	98.0	68.3	85.0	70.6	94.0	79.7
ABT-99-4.600	91.0	88.0	79.2	97.0	65.0	88.3	67.8	93.3	79.7
DIVINE	89.3	99.0	80.8	96.0	66.7	90.0	65.0	93.8	79.6
LPR 98-143	92.7	94.7	81.7	92.0	70.0	88.3	63.3	94.2	79.6
CATALINA	90.3	80.7	84.2	96.0	68.3	86.7	64.4	93.7	79.6
SUNKISSED (ABT-99-4.834)	89.7	98.3	80.8	96.0	68.3	86.7	69.4	92.2	79.5
PICK PR QH-97	92.0	92.0	80.0	98.0	65.0	86.7	64.4	94.3	79.5
APPLAUD (PENNINGTON-11301)	97.0	97.7	82.5	97.0	63.3	88.3	62.9	93.7	79.5
MONTEREY II (JR-187)	98.0	94.7	83.3	96.0	66.7	86.7	62.2	94.3	79.5
PALMER III	89.7	86.0	79.2	97.0	63.3	86.7	70.6	94.0	79.5
DP 17-9496	93.7	76.7	83.3	97.0	68.3	90.0	60.6	91.2	79.5
GRAND SLAM 2L96 (PST-2L96)	91.3	96.3	79.2	96.0	67.5	86.7	69.4	92.5	79.4
PARADIGM (APR 1236)	98.3	96.7	75.8	96.0	66.7	81.7	71.1	93.8	79.4
SEVILLE II	93.7	91.7	84.2	96.0	66.7	90.0	62.2	93.2	79.4
JR-128	94.7	96.7	80.0	98.0	68.3	83.3	62.8	95.3	79.4
BLAZER IV (PICK MDR)	80.7	93.7	80.8	97.0	68.3	90.0	67.8	92.7	79.3
EXTREME (JR-317)	88.0	93.3	79.2	96.0	70.0	80.0	70.0	94.2	79.3
BARLENNIUM	90.7	91.3	81.7	95.0	66.7	85.0	64.4	93.8	79.2
PASSPORT	93.3	75.7	83.3	92.0	68.3	85.0	65.0	95.7	79.2
DP 17-9391	95.0	86.7	80.8	97.0	71.7	83.3	66.7	94.3	79.1
SUPERSTAR (EP57)	91.3	91.3	79.2	97.0	66.7	81.7	69.4	94.7	79.1
ALLSPORT	96.7	91.3	81.7	97.0	70.0	80.0	58.3	91.5	79.0
AMAZING (B1)	90.3	96.7	85.0	96.0	65.0	81.7	60.6	92.7	78.8
SUMMERSET (MB 413)	80.7	96.7	78.3	96.0	61.7	88.3	66.1	90.7	78.8
APR 1235	98.3	95.3	80.0	98.0	68.3	86.7	62.2	91.7	78.7
EP53	93.0	92.3	80.0	97.0	68.3	86.7	61.1	94.5	78.7
ABT-99-4.464	91.0	95.7	79.2	98.0	70.0	83.3	63.9	93.3	78.7
ASCEND	90.0	91.3	79.2	95.0	71.7	85.0	63.3	93.7	78.7
CAS-LP84	87.0	96.3	79.2	97.0	65.0	85.0	63.9	93.5	78.7
INSPIRE (R8000)	89.7	98.0	80.0	97.0	70.0	85.0	66.1	93.0	78.7
BRIGHTSTAR SLT (PST-2A6B)	84.3	94.3	81.7	96.0	65.0	85.0	68.3	92.7	78.7
RACER II (PICK RC2)	96.7	94.0	80.0	96.0	66.7	75.0	64.4	94.7	78.6
CITATION FORE (PST-2BR)	91.3	99.0	82.5	97.0	70.0	90.0	60.0	93.8	78.4
FIESTA 3	92.0	95.0	80.0	98.0	68.3	90.0	62.2	94.2	78.4
PANTHER	81.7	87.3	79.2	96.0	66.7	86.7	67.8	95.5	78.1
PENNANT II	81.7	91.3	81.7	95.0	68.3	91.7	63.3	92.8	78.0
MACH 1 (ROBERTS-627)	96.0	98.7	78.3	96.0	68.3	86.7	66.1	93.3	78.0
CHURCHILL	96.7	96.3	78.3	98.0	66.7	86.7	65.4	92.5	78.0
BRIGHTSTAR II	89.7	97.3	81.7	98.0	66.7	83.3	60.6	94.2	78.0
TERRADYNE (A5C)	93.7	87.0	75.8	97.0	65.0	80.0	70.6	92.3	77.9
SR 4220 (SRX 4801)	93.3	96.0	81.7	98.0	63.3	86.7	63.9	91.3	77.9
DP LP-1	93.7	90.7	80.0	96.0	66.7	88.3	61.7	96.0	77.8



TABLE 12. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	IL2	KY1	MI1	MO1	NY2	QE1	SD1	WI1	MEAN
PREMIER II	95.0	93.7	82.5	97.0	66.7	88.3	55.0	92.8	77.7
LINE DRIVE	91.0	96.0	78.3	98.0	66.7	86.7	61.1	93.7	77.7
PROMISE	89.0	93.7	78.3	92.7	61.7	86.7	65.6	92.7	77.6
RADIANT	85.3	96.3	75.8	96.0	65.0	81.7	72.8	90.2	77.6
APR 1231	95.7	92.0	80.0	97.0	66.7	85.0	63.3	92.0	77.6
MP107	82.3	94.0	77.5	95.0	68.3	78.3	72.2	92.7	77.6
MP103	82.3	93.3	73.3	95.0	66.7	88.3	73.3	93.2	77.5
ABT-99-4.339	88.7	93.0	77.5	97.0	65.0	85.0	65.6	94.5	77.4
CALYPSO II	99.0	92.7	80.8	98.0	65.0	85.0	55.6	95.0	77.3
CATALINA II (PST-CATS)	90.3	92.0	79.2	97.0	73.3	78.3	62.8	94.2	77.2
ICON (MB 414)	91.3	92.3	81.7	97.0	63.3	78.3	57.2	91.7	77.1
PICK PR B-97	82.3	95.3	77.5	97.0	66.7	83.3	60.6	94.0	77.1
PEARL II (EPD)	80.0	94.0	77.5	96.0	65.0	86.7	66.6	94.5	77.1
CATHEDRAL II	93.7	93.7	79.2	98.0	68.3	90.0	58.9	92.3	77.0
PINNACLE II (BAR 9 B2)	94.3	92.0	78.3	98.0	66.7	85.0	61.1	91.0	76.8
PLEASURE XL	93.3	96.7	76.7	97.0	68.3	83.3	58.3	92.5	76.6
PROTYME (ABT-99-4.625)	93.3	93.7	75.0	96.0	66.7	80.0	62.2	93.8	76.2
PST-2LA	94.0	95.3	82.5	98.0	68.3	83.3	56.7	91.5	76.1
GATOR 3 (CIS-PR-85)	97.3	97.0	77.5	97.0	65.0	80.0	63.8	92.3	76.1
LS 2100 (PST-2SBE)	94.0	94.7	77.5	97.0	70.0	88.3	55.6	93.2	76.0
RENAISSANCE (APR 1233)	93.3	93.0	76.7	94.3	63.3	83.3	63.8	92.7	76.0
LTP-ME	88.0	86.7	73.3	98.0	68.3	80.0	73.3	92.8	76.0
GALLERY (MB 412)	82.3	95.3	79.2	96.0	65.0	80.0	61.1	91.2	75.8
SKYHAWK	86.7	94.3	79.2	91.7	60.0	81.7	65.6	91.7	75.8
MEPY	86.0	92.7	76.7	96.0	65.0	81.7	63.3	93.5	75.7
APR 1234	98.0	89.7	75.0	95.0	63.3	80.0	57.2	91.0	75.2
PR 1-94 (PICK PR 1-94)	91.7	95.0	74.2	92.0	56.7	85.0	60.6	94.3	74.9
WILMINGTON	91.3	94.3	77.5	98.0	65.0	85.0	51.1	92.8	74.9
CHARISMATIC (LTP 98-501)	90.7	96.3	78.3	94.3	61.7	85.0	54.4	93.7	74.8
APR 1232	95.3	95.7	76.7	98.0	68.3	83.3	52.2	91.8	74.3
HEADSTART	90.0	87.3	78.3	89.3	65.0	85.0	52.8	93.7	74.0
RACER	98.0	97.3	74.2	98.0	66.7	86.7	47.8	93.2	73.8
SALINAS (PST-2SLX)	85.7	96.3	77.5	96.0	65.0	88.3	51.1	94.5	73.6
CABO (CIS-PR-80)	87.7	90.7	77.5	96.0	68.3	86.7	49.4	93.2	73.5
PROSPORT (AG-P981)	90.0	84.0	76.7	96.0	68.3	83.3	50.6	92.0	73.4
PICK PRNGS	85.0	96.7	70.8	97.0	66.7	76.7	58.9	94.8	73.3
MDP	85.7	95.0	71.7	95.0	66.7	68.3	62.2	93.2	73.1
MP88	83.7	97.3	76.7	94.3	65.0	80.0	56.1	93.5	73.1
ARRIVAL (CIS-PR-84)	94.7	95.3	80.0	97.0	68.3	83.3	39.4	90.0	72.0
LINN	76.7	14.3	77.5	90.0	63.3	90.0	56.1	88.7	70.7
LSD VALUE	10.1	8.3	9.3	5.5	8.7	8.8	23.2	4.5	9.1
C.V. (%)	6.8	5.6	7.3	3.5	8.2	6.4	24.3	3.0	11.0

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 13. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IL2	KY1	MI1	NY2	WA4	WI1	MEAN
FIESTA 3	91.0	75.0	87.6	56.7	86.7	96.3	86.7
PICK EX2	84.7	76.7	88.3	58.3	90.0	95.7	86.5
GRAND SLAM 2L96 (PST-2L96)	85.7	93.0	86.1	60.0	81.7	94.8	86.3
CITATION FORE (PST-2BR)	77.3	88.0	89.4	60.0	86.7	94.2	86.3
SRX 4120	90.3	85.7	86.7	58.3	83.3	94.2	86.3
SECRETARIAT	87.3	85.7	88.7	56.7	81.7	94.2	86.2
RACER II (PICK RC2)	80.0	82.3	86.1	63.3	91.7	94.3	86.1
SR 4500	90.0	83.3	87.2	58.3	78.3	94.3	85.8
SR 4420 (SRX 4820)	84.7	76.7	88.1	58.3	86.7	93.8	85.7
PST-2LA	83.7	66.7	88.9	53.3	91.7	96.2	85.7
APR 1231	89.0	68.3	86.1	65.0	85.0	95.8	85.6
COURAGE (MB 410)	89.7	70.0	87.0	61.7	90.0	91.7	85.5
PACESETTER (6011)	78.7	75.0	88.0	55.0	90.0	95.8	85.3
PREMIER II	87.0	76.3	86.7	55.0	85.0	94.8	85.3
JR-128	78.7	82.3	85.6	63.3	85.0	95.5	85.3
PST-2RT	87.7	77.3	86.1	60.0	81.7	94.3	85.2
CHARISMATIC (LTP 98-501)	85.7	76.7	87.8	58.3	80.0	94.0	84.9
ADMIRE (JR-151)	73.3	90.7	87.0	58.3	83.3	94.5	84.8
LPR 98-144	86.7	68.3	87.1	55.0	88.3	93.2	84.8
QUEST II (ABT-99-4.721)	81.7	75.7	87.2	60.0	85.0	93.7	84.7
ABT-99-4.339	70.3	84.0	87.8	60.0	83.3	95.5	84.6
CALYPSO II	76.3	75.0	88.1	55.0	86.7	94.8	84.6
PENTIUM (NJ-6401)	74.3	75.7	87.2	58.3	88.3	95.2	84.5
DIVINE	75.0	85.7	87.2	55.0	81.7	94.7	84.3
ABT-99-4.115	75.3	77.3	87.2	58.3	83.3	95.5	84.3
DLF-LDD	76.3	76.7	89.4	50.0	81.7	96.0	84.3
PST-2JH	81.7	78.3	87.8	58.3	80.0	93.3	84.3
SR 4350 (APR 1237)	82.0	82.3	85.0	51.7	86.7	93.7	84.3
PIZZAZZ	83.3	82.3	85.6	51.7	88.3	92.2	84.3
APR 1232	84.0	78.3	85.6	61.7	81.7	92.5	84.3
ABT-99-4.464	78.7	80.7	85.6	61.7	83.3	92.8	84.1
INSPIRE (R8000)	75.0	79.0	87.2	55.0	86.7	93.8	84.1
BLAZER IV (PICK MDR)	77.3	80.0	86.7	55.0	83.3	94.7	84.1
DP 17-9391	77.7	77.3	85.0	65.0	80.0	95.8	84.1
AFFINITY	83.3	78.3	84.4	60.0	80.0	94.7	83.9
MACH 1 (ROBERTS-627)	81.3	66.7	88.9	51.7	86.7	92.7	83.9
YATSUGREEN	78.3	66.7	87.1	60.0	83.3	95.2	83.9
MANHATTAN 4 (PST-2CRL)	67.0	80.0	88.9	58.3	86.7	93.8	83.8
PLEASURE XL	80.0	77.3	86.3	55.0	85.0	92.3	83.8
EXACTA	66.0	81.7	85.6	55.0	90.0	96.2	83.6
SPLendid (MB 411)	80.7	76.7	86.1	60.0	78.3	93.5	83.5
ASCEND	76.7	84.3	85.6	56.7	81.7	93.2	83.5
PARAGON	72.0	80.0	87.2	51.7	85.0	94.7	83.5
CATALINA II (PST-CATS)	69.3	80.0	86.1	61.7	86.7	93.0	83.4
APR 1234	86.7	74.3	83.9	60.0	81.7	91.7	83.4
SEVILLE II	67.0	68.3	88.9	61.7	85.0	95.2	83.4
ALL STAR2 (CIS-PR-78)	83.3	66.7	86.7	58.3	78.3	94.2	83.3

TABLE 13. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IL2	KY1	MI1	NY2	WA4	WI1	MEAN
ABT-99-4.600	68.0	80.0	86.1	55.0	88.3	94.5	83.3
GATOR 3 (CIS-PR-85)	75.7	78.0	85.0	51.7	88.3	93.0	83.2
CHURCHILL	81.0	75.0	84.4	56.7	86.7	91.8	83.2
SR 4220 (SRX 4801)	76.0	68.3	86.7	58.3	81.7	95.7	83.2
PICK PR QH-97	80.0	68.3	86.1	58.3	83.3	93.3	83.2
AFFIRMED	71.3	73.3	88.3	56.7	83.3	93.0	83.1
PR 1-94 (PICK PR 1-94)	83.0	75.0	86.2	56.7	81.7	90.3	83.1
AMAZING (B1)	67.0	75.0	87.6	51.7	90.0	94.3	83.1
RENAISSANCE (APR 1233)	59.7	84.7	87.2	58.3	85.0	94.7	83.0
APPLAUD (PENNINGTON-11301)	69.7	75.0	86.7	51.7	85.0	95.5	82.9
LINE DRIVE	83.0	61.7	85.0	63.3	78.3	94.7	82.9
RACER	71.3	80.0	85.3	53.3	90.0	91.3	82.8
ABT-99-4.560	71.7	63.3	87.8	55.0	86.7	94.8	82.8
BY-100	68.7	78.3	87.8	61.7	78.3	93.0	82.8
MONTEREY II (JR-187)	73.3	65.0	87.8	56.7	85.0	93.7	82.8
HAWKEYE (SRX 4RHT)	78.7	68.3	86.7	51.7	85.0	92.8	82.8
CHARGER II	62.3	85.0	86.1	56.7	88.3	92.5	82.7
BRIGHTSTAR II	65.7	77.3	88.3	56.7	85.0	92.5	82.7
BRIGHTSTAR SLT (PST-2A6B)	63.3	85.0	87.2	58.3	80.0	94.7	82.7
BARLENNIUM	80.0	66.7	86.3	48.3	88.3	91.8	82.5
CATHEDRAL II	61.0	71.7	86.1	60.0	90.0	95.0	82.5
APR 776	74.7	68.0	86.7	55.0	85.0	92.3	82.5
WVPB-R-84	68.7	68.3	87.2	61.7	78.3	95.3	82.4
JET	83.3	76.7	83.3	48.3	80.0	93.5	82.3
MAJESTY	69.3	76.7	86.7	55.0	81.7	93.3	82.3
DAZZLE (ABT-99-4.724)	68.3	76.7	86.7	58.3	80.0	93.5	82.2
PST-2M4	68.0	76.7	87.2	55.0	81.7	93.0	82.2
SALINAS (PST-2SLX)	66.3	75.7	86.1	63.3	78.3	94.3	82.1
KOOS R-71	68.7	76.7	87.0	60.0	76.7	93.7	82.1
PICK PRNGS	70.7	84.0	83.3	55.0	80.0	94.5	82.1
APR 1235	70.0	78.3	84.4	58.3	88.3	89.0	81.9
IQ (CIS-PR-75)	67.3	76.7	85.6	53.3	81.7	94.8	81.8
CATALINA	58.7	68.3	87.8	53.3	90.0	94.8	81.8
PICK PR B-97	79.0	70.7	86.1	51.7	78.3	91.2	81.7
GALLERY (MB 412)	70.0	81.7	86.4	56.7	78.3	90.7	81.7
EDGE	68.7	65.0	85.6	58.3	83.3	94.8	81.6
SUNKISSED (ABT-99-4.834)	67.3	73.3	85.6	53.3	83.3	93.7	81.5
RADIANT	64.3	75.0	83.7	58.3	86.7	92.8	81.4
ELFKIN	51.7	79.0	86.1	56.7	88.3	94.7	81.4
EXTREME (JR-317)	62.7	73.3	86.1	56.7	83.3	93.5	81.3
BUCCANEER	68.3	66.7	85.9	60.0	80.0	92.8	81.3
KOKOMO (CIS-PR-69)	65.0	66.7	86.1	61.7	81.7	93.3	81.3
CRUISER (ABT-99-4.709)	70.7	80.0	84.4	63.3	81.7	87.3	81.2
DP LP-1	66.0	55.0	86.7	56.7	85.0	95.5	81.2
PROWLER (APR 777)	56.0	82.3	84.4	60.0	85.0	93.0	81.1
STELLAR (CIS-PR-72)	59.7	81.7	85.6	51.7	83.3	93.0	81.1
PROTYME (ABT-99-4.625)	69.7	76.7	86.1	55.0	76.7	91.2	81.1

TABLE 13. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IL2	KY1	MI1	NY2	WA4	WI1	MEAN
LTP-ME	70.3	65.0	85.0	63.3	80.0	92.2	81.1
ALLSPORT	76.3	68.3	83.9	56.7	73.3	94.5	81.0
HEADSTART	57.0	66.7	86.0	56.7	88.3	93.8	80.9
PALMER III	51.7	68.3	86.1	60.0	86.7	95.3	80.8
SUPERSTAR (EP57)	68.3	73.3	84.4	56.7	80.0	92.7	80.8
MANHATTAN 3	66.3	61.7	87.8	55.0	81.7	92.2	80.8
PEARL II (EPD)	58.7	65.0	87.2	55.0	81.7	96.2	80.8
PARADIGM (APR 1236)	63.3	85.7	83.9	60.0	75.0	92.3	80.7
LS 2100 (PST-2SBE)	64.3	80.0	83.3	53.3	81.7	93.2	80.7
ICON (MB 414)	70.3	68.3	85.6	53.3	80.0	91.7	80.6
ABT-99-4.815	61.0	58.3	87.2	60.0	83.3	94.0	80.6
DP 17-9496	73.7	55.0	83.9	58.3	80.0	93.8	80.4
PASSPORT	44.7	75.0	88.2	58.3	81.7	95.8	80.4
MP107	57.3	60.0	87.0	60.0	85.0	93.8	80.4
DP 17-9069	63.3	55.0	85.6	65.0	78.3	95.5	80.3
PINNACLE II (BAR 9 B2)	66.7	68.3	84.4	43.3	85.0	94.0	80.2
CABO (CIS-PR-80)	62.3	66.7	85.0	56.7	80.0	94.2	80.2
NEXUS	64.7	71.7	86.7	51.7	78.3	91.3	80.1
ARRIVAL (CIS-PR-84)	69.0	61.7	83.3	48.3	85.0	93.0	79.7
PROMISE	61.3	71.7	83.3	50.0	86.7	92.0	79.6
MEPY	50.0	63.3	86.1	66.7	81.7	93.5	79.6
WVPB-R-82	52.7	55.0	88.3	61.7	78.3	95.5	79.4
MP88	57.0	58.3	86.7	60.0	80.0	93.7	79.4
PREMIER	62.7	60.0	85.0	56.7	78.3	93.3	79.4
ABT-99-4.965	62.3	75.0	85.6	48.3	80.0	90.0	79.3
MP103	50.7	60.0	86.1	58.3	85.0	93.0	79.2
MDP	61.7	63.3	83.7	53.3	80.7	93.7	79.0
PENNANT II	33.0	77.3	87.8	55.0	90.0	92.7	79.0
PHANTOM	47.0	65.0	85.0	56.7	86.7	93.7	78.9
WILMINGTON	55.3	68.3	82.8	58.3	85.0	90.8	78.6
PROSPORT (AG-P981)	54.3	68.3	85.8	60.0	76.7	90.8	78.5
LPR 98-143	52.7	71.7	84.9	51.7	78.3	92.7	78.5
PANTHER	35.3	53.3	87.8	61.7	88.3	95.8	78.4
TERRADYNE (A5C)	63.0	76.7	85.0	46.7	76.7	88.7	78.4
PST-2CRR	52.0	65.0	86.7	58.3	76.7	91.7	78.3
EP53	56.7	58.3	82.6	58.3	80.0	90.8	77.2
CAS-LP84	50.3	51.7	85.3	53.3	80.0	93.3	77.0
SKYHAWK	29.0	66.7	86.7	56.7	86.7	92.0	76.6
SUMMERSET (MB 413)	50.0	63.3	83.3	53.3	75.0	91.7	76.5
LINN	35.7	10.3	77.6	50.0	73.3	89.5	67.5
LSD VALUE	21.5	20.9	7.3	14.4	10.9	4.4	7.6
C.V. (%)	19.3	17.9	5.3	15.7	8.1	2.9	9.0

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 14. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA6	KY1	MI1	MO1	NS1	NY2	SD1	WI1	MEAN
ABT-99-4.115	98.3	89.7	85.0	96.0	86.7	58.3	96.7	96.8	91.4
PST-2RT	98.3	89.3	85.8	95.0	89.7	61.7	95.1	95.8	91.3
PICK EX2	97.7	89.7	88.3	95.0	91.3	53.3	95.6	95.7	91.3
CHARGER II	97.7	94.3	86.7	96.0	80.0	70.0	94.0	92.2	91.0
ADMIRE (JR-151)	99.0	94.5	88.3	91.7	84.7	48.3	96.3	95.2	91.0
STELLAR (CIS-PR-72)	97.7	89.7	85.8	95.0	91.7	56.7	96.1	94.0	91.0
PARAGON	99.0	86.5	88.3	91.7	86.7	63.3	95.1	96.5	91.0
ABT-99-4.339	98.3	93.2	85.8	96.0	83.3	58.3	93.4	95.2	90.7
SR 4350 (APR 1237)	99.0	91.7	85.0	95.0	86.7	56.7	94.0	94.8	90.5
ELFKIN	97.7	87.2	85.8	95.0	86.7	60.0	95.1	94.8	90.4
MANHATTAN 4 (PST-2CRL)	97.7	93.3	90.0	95.0	75.0	61.7	90.6	96.3	90.3
APPLAUD (PENNINGTON-11301)	99.0	89.5	85.0	93.3	88.3	55.0	94.4	95.3	90.2
PROWLER (APR 777)	99.0	91.5	85.0	93.3	83.3	55.0	96.2	93.3	90.2
SR 4500	99.0	93.8	86.7	96.0	86.7	53.3	91.4	94.3	90.2
PACESETTER (6011)	97.0	91.5	88.3	95.0	76.7	58.3	92.4	96.5	90.2
RACER II (PICK RC2)	98.3	93.2	86.7	95.0	75.0	58.3	96.0	92.3	90.2
PST-2JH	98.3	88.3	86.7	96.0	80.0	55.0	94.1	95.7	90.1
ABT-99-4.560	97.7	89.3	87.5	93.3	81.7	60.0	93.1	95.7	90.1
BLAZER IV (PICK MDR)	97.0	85.8	86.7	95.3	83.3	55.0	95.0	95.8	90.0
WVPB-R-84	96.3	82.5	85.0	95.0	89.7	55.0	97.2	94.8	90.0
QUEST II (ABT-99-4.721)	98.3	90.0	87.5	95.0	70.0	63.3	94.4	94.7	90.0
DP 17-9391	99.0	86.0	86.7	94.3	81.7	70.0	91.7	95.7	90.0
SR 4420 (SRX 4820)	99.0	89.5	90.0	91.7	71.7	60.0	93.9	95.5	90.0
MANHATTAN 3	99.0	83.5	85.8	93.3	85.0	63.3	95.6	93.3	89.9
ABT-99-4.464	98.3	90.7	84.2	95.0	83.3	60.0	92.8	94.2	89.8
PREMIER	98.3	83.3	82.5	95.3	93.0	53.3	95.0	95.5	89.8
AMAZING (B1)	98.3	95.0	90.0	92.7	71.7	51.7	92.3	95.8	89.7
SRX 4120	99.0	95.5	85.0	97.0	71.7	50.0	94.0	94.5	89.7
ABT-99-4.815	97.7	86.5	89.2	91.7	73.3	58.3	95.0	95.3	89.6
JET	97.7	91.0	84.2	91.7	85.0	53.3	93.8	95.2	89.6
DIVINE	98.3	90.0	88.3	91.7	76.7	55.0	92.9	95.5	89.5
BRIGHTSTAR SLT (PST-2A6B)	98.3	95.0	89.2	90.0	78.3	51.7	91.8	94.7	89.5
ALL STAR2 (CIS-PR-78)	96.7	83.8	86.7	95.0	83.3	58.3	93.9	95.5	89.5
DAZZLE (ABT-99-4.724)	98.3	85.8	88.3	95.0	73.3	61.7	92.8	95.5	89.5
PST-2M4	97.7	86.2	86.7	95.0	83.0	61.7	91.9	94.2	89.5
KOKOMO (CIS-PR-69)	98.3	82.2	87.5	95.0	76.7	60.0	95.6	94.3	89.5
PHANTOM	98.3	84.8	84.2	91.7	88.3	58.3	94.6	94.2	89.5
EXACTA	99.0	90.7	86.7	93.3	68.0	56.7	94.1	96.0	89.5
GRAND SLAM 2L96 (PST-2L96)	98.3	92.3	85.0	95.0	80.0	52.5	92.6	94.7	89.4
CHURCHILL	98.3	90.7	86.7	96.0	86.7	58.3	89.6	94.0	89.4
INSPIRE (R8000)	98.3	85.7	86.7	95.0	85.0	58.3	91.8	95.3	89.4
SECRETARIAT	99.0	88.8	87.5	88.3	91.3	55.0	91.3	95.3	89.4
JR-128	97.7	89.3	86.7	96.0	80.0	48.3	93.0	95.5	89.3
SR 4220 (SRX 4801)	98.3	88.8	90.0	97.0	88.0	55.0	87.7	95.2	89.3
DLF-LDD	98.3	86.2	90.8	91.7	78.3	48.3	93.4	95.5	89.2
RADIANT	98.3	86.0	85.0	93.3	88.3	58.3	93.4	92.5	89.2
APR 1231	99.0	81.3	89.2	93.3	81.7	65.0	89.7	96.0	89.2

TABLE 14. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA6	KY1	MI1	MO1	NS1	NY2	SD1	WI1	MEAN
FIESTA 3	99.0	89.8	86.7	96.0	80.0	58.3	88.6	96.5	89.2
LINE DRIVE	96.3	89.5	84.2	96.0	86.7	58.3	89.7	94.8	89.1
BARLENNIUM	99.0	84.3	85.8	91.7	86.7	55.0	93.6	94.3	89.1
PEARL II (EPD)	99.0	88.7	86.7	96.0	68.3	53.3	94.0	95.0	89.1
GATOR 3 (CIS-PR-85)	99.0	91.2	85.0	93.3	90.0	60.0	87.4	94.5	89.1
SPLENDID (MB 411)	98.3	88.8	85.8	95.0	73.3	53.3	92.4	95.7	89.1
MAJESTY	98.3	88.5	85.0	95.0	88.3	50.0	90.7	95.3	89.0
EXTREME (JR-317)	98.3	84.3	89.2	94.3	71.7	58.3	95.0	93.0	89.0
ASCEND	98.3	91.2	85.8	93.3	83.3	61.7	88.0	94.5	89.0
RENAISSANCE (APR 1233)	98.7	89.3	85.8	88.3	80.0	58.3	92.3	94.5	89.0
CATALINA II (PST-CATS)	97.7	93.3	85.8	92.7	85.0	63.3	86.3	94.2	88.9
EP53	99.0	82.7	84.2	96.0	93.3	61.7	92.4	89.8	88.9
AFFINITY	99.0	91.8	83.3	94.3	84.7	53.3	89.1	95.8	88.9
ABT-99-4.600	97.7	86.7	87.5	93.3	68.3	53.3	95.2	94.7	88.8
PENNANT II	96.3	83.8	87.5	93.3	84.7	58.3	91.9	93.8	88.7
PICK PR B-97	99.0	88.5	85.0	93.3	90.0	58.3	91.8	90.8	88.7
PLEASURE XL	97.7	90.2	85.0	95.0	86.7	58.3	89.2	93.8	88.7
IQ (CIS-PR-75)	99.0	80.7	87.5	95.0	73.3	65.0	91.9	95.0	88.6
PICK PRNGS	99.0	91.0	84.2	94.3	81.7	50.0	91.9	93.0	88.6
TERRADYNE (A5C)	97.7	87.7	88.3	95.0	71.7	50.0	95.1	90.2	88.6
MP107	98.3	78.0	85.8	93.3	78.3	66.7	94.0	93.0	88.5
APR 776	98.3	84.5	85.0	93.3	76.7	51.7	94.3	94.3	88.5
SUNKISSED (ABT-99-4.834)	97.7	81.5	85.8	93.3	75.0	61.7	93.0	94.2	88.4
PROMISE	98.3	90.0	85.0	91.7	81.7	43.3	93.1	93.5	88.4
YATSUGREEN	99.0	84.2	86.7	91.7	81.7	53.3	92.3	95.8	88.4
COURAGE (MB 410)	99.0	85.3	86.7	95.0	65.0	61.7	92.9	93.0	88.3
MP103	98.3	77.5	85.0	93.3	80.0	56.7	95.1	94.3	88.3
PIZZAZZ	98.3	87.7	89.2	91.0	68.3	53.3	92.3	93.8	88.3
CITATION FORE (PST-2BR)	97.7	93.8	89.2	92.7	81.7	65.0	82.4	95.8	88.2
PARADIGM (APR 1236)	97.0	94.3	84.2	91.7	80.0	55.0	93.3	87.8	88.2
DP LP-1	99.0	78.2	86.7	93.3	86.7	60.0	90.6	95.0	88.2
MACH 1 (ROBERTS-627)	98.3	86.2	88.3	95.0	71.7	56.7	91.1	93.0	88.1
PICK PR QH-97	97.7	85.0	85.0	95.0	80.0	50.0	92.1	94.0	88.1
DP 17-9069	99.0	81.8	85.0	95.0	69.7	51.7	93.4	95.8	88.0
SUPERSTAR (EP57)	97.7	89.3	85.0	96.0	68.3	55.0	91.6	92.7	87.9
MONTEREY II (JR-187)	97.7	82.2	86.7	93.3	95.0	56.7	86.2	94.7	87.9
HAWKEYE (SRX 4RHT)	97.7	84.8	86.7	93.3	76.7	50.0	92.8	92.3	87.8
CRUISER (ABT-99-4.709)	98.3	91.0	85.0	95.0	76.7	66.7	90.8	83.2	87.8
BY-100	97.7	84.2	85.8	95.0	81.3	61.7	89.2	93.3	87.7
CATALINA	99.0	75.0	86.7	95.0	76.7	60.0	91.2	95.3	87.6
MDP	97.0	86.5	86.7	95.0	71.7	53.3	89.0	94.8	87.5
BUCCANEER	99.0	84.0	83.3	93.3	86.7	41.7	91.7	93.5	87.5
ABT-99-4.965	97.7	82.0	85.8	93.3	68.3	48.3	95.7	92.3	87.4
SKYHAWK	96.3	84.2	87.5	90.0	71.7	56.7	91.8	93.0	87.4
SUMMERSET (MB 413)	97.7	82.7	82.5	93.3	81.7	58.3	90.9	92.0	87.4
CAS-LP84	97.7	77.2	87.5	95.0	81.7	50.0	90.8	94.3	87.3
PENTIUM (NJ-6401)	99.0	85.0	85.8	95.0	66.7	53.3	90.0	95.0	87.3

TABLE 14. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA6	KY1	MI1	MO1	NS1	NY2	SD1	WI1	MEAN
BRIGHTSTAR II	99.0	81.5	86.7	93.3	75.0	58.3	88.4	94.3	87.3
DP 17-9496	99.0	84.0	81.7	93.3	84.7	56.7	90.2	92.7	87.3
APR 1235	97.7	91.2	85.8	95.0	78.3	61.7	88.6	85.5	87.2
PST-2CRR	97.7	78.3	87.5	91.7	83.3	56.7	93.0	89.2	87.2
GALLERY (MB 412)	97.0	89.0	86.7	91.7	65.0	58.3	89.7	91.3	87.2
KOOS R-71	99.0	70.2	87.5	92.7	86.3	61.7	90.4	93.7	87.2
PALMER III	98.3	62.2	84.2	95.0	83.3	60.0	95.1	95.2	87.0
PST-2LA	97.0	87.7	86.2	95.0	60.0	61.7	86.3	95.8	86.9
PINNACLE II (BAR 9 B2)	98.3	87.0	84.2	93.3	66.7	46.7	91.2	93.8	86.9
ICON (MB 414)	98.3	90.7	84.2	93.3	78.0	51.7	84.7	94.3	86.9
LTP-ME	98.3	75.3	85.0	96.0	63.3	55.0	93.0	94.5	86.6
PROTYME (ABT-99-4.625)	97.0	86.3	84.2	90.0	68.3	55.0	91.4	90.8	86.5
LPR 98-144	98.3	83.0	87.5	88.3	86.7	40.0	88.3	93.7	86.3
ALLSPORT	97.7	69.8	84.2	94.3	88.3	60.0	88.1	94.5	86.2
MEPY	97.7	74.2	85.8	95.0	83.3	58.3	86.2	93.2	85.7
PANTHER	99.0	55.8	87.5	93.3	81.7	58.3	91.9	95.8	85.6
SEVILLE II	98.3	86.5	87.5	95.0	85.0	51.7	79.7	94.7	85.6
PASSPORT	98.3	72.8	89.2	93.3	55.0	53.3	90.0	96.2	85.5
NEXUS	97.7	84.7	87.5	91.7	63.3	51.7	92.3	84.7	85.4
LPR 98-143	97.7	88.0	83.3	93.3	66.7	45.0	85.7	94.5	85.4
WVPB-R-82	97.7	58.7	88.3	90.0	78.3	53.3	91.7	96.0	85.2
MP88	99.0	85.2	87.5	95.0	86.7	58.3	77.4	92.8	85.0
APR 1234	97.7	87.7	80.8	92.7	85.0	48.3	82.1	91.7	84.8
PR 1-94 (PICK PR 1-94)	98.3	72.3	83.3	93.3	73.3	51.7	89.6	91.0	84.7
RACER	97.7	90.5	85.0	96.0	81.7	51.7	74.9	94.3	84.0
CALYPSO II	99.0	92.8	87.5	94.7	81.7	55.0	73.0	94.2	83.7
CATHEDRAL II	97.7	85.2	87.5	94.3	90.0	53.3	74.4	95.0	83.6
PREMIER II	99.0	89.7	85.8	94.3	81.7	53.3	74.4	95.5	83.6
SALINAS (PST-2SLX)	98.3	89.3	85.8	94.3	78.3	60.0	73.0	94.8	83.3
CHARISMATIC (LTP 98-501)	99.0	87.7	85.8	93.3	73.3	53.3	75.8	94.2	83.3
AFFIRMED	98.3	90.0	85.0	96.3	78.7	50.0	73.6	95.5	83.1
APR 1232	98.3	88.8	85.8	96.0	80.0	51.7	72.4	94.0	82.7
WILMINGTON	97.7	90.2	83.3	95.0	83.3	60.0	71.3	91.7	82.5
EDGE	97.7	83.5	86.7	95.0	71.7	50.0	76.0	94.8	82.3
PROSPORT (AG-P981)	97.0	74.5	85.8	91.7	65.0	58.3	76.0	93.7	81.7
LS 2100 (PST-2SBE)	97.7	76.8	85.0	93.3	78.3	65.0	71.4	95.0	81.6
CABO (CIS-PR-80)	98.3	86.3	85.0	91.7	76.7	58.3	67.6	94.3	81.1
ARRIVAL (CIS-PR-84)	99.0	82.3	86.7	91.7	91.7	58.3	53.1	93.5	76.7
HEADSTART	95.7	70.0	85.0	91.7	75.0	46.7	62.6	95.3	76.6
LINN	99.0	24.3	73.3	93.3	65.0	46.7	85.7	86.0	74.8
LSD VALUE	1.9	17.9	6.7	4.9	22.2	20.1	24.2	5.4	10.4
C.V. (%)	1.2	13.6	4.9	3.3	17.4	22.2	17.3	3.6	12.7

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 15.

WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

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

NAME	VA1	WA4	MEAN	NAME	VA1	WA4	MEAN
KOKOMO (CIS-PR-69)	6.8	8.0	6.8	ELFKIN	5.8	7.3	6.0
PIZZAZZ	6.8	8.0	6.8	LINE DRIVE	5.8	7.3	6.0
MACH 1 (ROBERTS-627)	6.8	8.0	6.8	MP107	5.8	7.7	6.0
STELLAR (CIS-PR-72)	6.8	7.7	6.8	PROSPORT (AG-P981)	5.8	7.3	6.0
ALL STAR2 (CIS-PR-78)	6.7	8.0	6.8	BRIGHTSTAR II	5.8	8.0	5.9
CABO (CIS-PR-80)	6.7	8.0	6.8	PST-2LA	5.8	7.7	5.9
HAWKEYE (SRX 4RHT)	6.6	8.0	6.7	ICON (MB 414)	5.8	7.7	5.9
SR 4220 (SRX 4801)	6.6	7.7	6.7	PENNANT II	5.8	7.3	5.9
SUNKISSED (ABT-99-4.834)	6.6	8.0	6.7	RACER II (PICK RC2)	5.8	6.7	5.8
AMAZING (B1)	6.6	8.0	6.6	ABT-99-4.464	5.8	7.0	5.8
GALLERY (MB 412)	6.6	8.0	6.6	SR 4350 (APR 1237)	5.8	7.3	5.8
PARAGON	6.5	7.7	6.6	ASCEND	5.7	7.3	5.8
ARRIVAL (CIS-PR-84)	6.6	7.7	6.6	LPR 98-143	5.8	7.0	5.8
DAZZLE (ABT-99-4.724)	6.6	8.0	6.6	PICK PR B-97	5.7	8.0	5.8
TERRADYNE (A5C)	6.6	8.0	6.6	CAS-LP84	5.7	7.0	5.8
BLAZER IV (PICK MDR)	6.5	7.7	6.5	MP103	5.5	8.0	5.8
CHARISMATIC (LTP 98-501)	6.4	8.0	6.5	PROMISE	5.6	7.7	5.8
JET	6.4	7.7	6.5	SALINAS (PST-2SLX)	5.6	8.0	5.8
IQ (CIS-PR-75)	6.3	8.0	6.4	MEPY	5.7	7.3	5.7
PROTYME (ABT-99-4.625)	6.3	8.0	6.4	MANHATTAN 3	5.6	7.3	5.7
BRIGHTSTAR SLT (PST-2A6B)	6.2	8.0	6.3	ABT-99-4.560	5.6	7.7	5.7
INSPIRE (R8000)	6.3	7.7	6.3	PR 1-94 (PICK PR 1-94)	5.5	8.0	5.7
ABT-99-4.965	6.3	8.0	6.3	SPLENDID (MB 411)	5.5	8.0	5.7
APPLAUD (PENNINGTON-11301)	6.3	8.0	6.3	PALMER III	5.6	7.0	5.7
NEXUS	6.3	8.0	6.3	APR 1234	5.4	7.3	5.6
PINNACLE II (BAR 9 B2)	6.3	8.0	6.3	COURAGE (MB 410)	5.6	7.3	5.6
SUMMERSET (MB 413)	6.3	8.0	6.3	KOOS R-71	5.5	6.7	5.6
GATOR 3 (CIS-PR-85)	6.2	8.0	6.3	FIESTA 3	5.4	7.7	5.6
CITATION FORE (PST-2BR)	6.2	8.0	6.3	LS 2100 (PST-2SBE)	5.5	7.0	5.6
SR 4420 (SRX 4820)	6.1	7.7	6.3	MP88	5.4	7.7	5.6
MDP	6.1	8.0	6.2	SR 4500	5.4	7.0	5.6
PENTIUM (NJ-6401)	6.1	7.3	6.2	PHANTOM	5.4	7.0	5.5
QUEST II (ABT-99-4.721)	6.2	7.7	6.2	MAJESTY	5.4	7.0	5.5
MANHATTAN 4 (PST-2CRL)	6.0	7.7	6.2	PST-2M4	5.4	7.3	5.5
SEVILLE II	6.0	8.0	6.2	SECRETARIAT	5.3	7.3	5.5
WILMINGTON	6.1	8.0	6.2	BARLENNIUM	5.4	6.7	5.5
GRAND SLAM 2L96 (PST-2L96)	6.0	7.7	6.1	DIVINE	5.4	7.0	5.5
DLF-LDD	6.0	7.7	6.1	AFFIRMED	5.4	6.3	5.5
LTP-ME	6.3	7.0	6.1	ALLSPORT	5.3	7.0	5.5
PST-2CRR	6.0	7.0	6.1	PICK EX2	5.4	6.3	5.5
RADIANT	6.0	8.0	6.0	PREMIER II	5.3	6.7	5.5
PICK PR QH-97	6.0	7.7	6.0	PST-2JH	5.4	7.0	5.5
CRUISER (ABT-99-4.709)	5.9	7.3	6.0	ABT-99-4.115	5.3	7.3	5.5
EXACTA	5.8	7.7	6.0	CATALINA II (PST-CATS)	5.3	7.0	5.5
PACESETTER (6011)	5.8	7.7	6.0	MONTEREY II (JR-187)	5.3	6.7	5.5
CHURCHILL	5.8	7.7	6.0	CATALINA	5.3	7.0	5.4
				CHARGER II	5.1	6.7	5.4



TABLE 15. WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	VA1	WA4	MEAN
EXTREME (JR-317)	5.3	7.0	5.4
PLEASURE XL	5.3	7.3	5.4
SKYHAWK	5.1	8.0	5.3
ABT-99-4.339	5.3	6.7	5.3
JR-128	5.2	6.7	5.3
PICK PRNGS	5.2	7.3	5.3
BUCCANEER	5.1	5.7	5.3
APR 1232	5.1	7.0	5.3
APR 1235	5.1	7.3	5.3
CALYPSO II	5.2	6.3	5.3
SUPERSTAR (EP57)	5.1	7.3	5.3
SRX 4120	5.3	6.3	5.3
EP53	5.0	7.3	5.2
PANTHER	5.0	6.7	5.2
PREMIER	5.2	6.3	5.2
PEARL II (EPD)	4.9	7.7	5.2
ABT-99-4.815	5.0	7.0	5.1
CATHEDRAL II	5.0	7.0	5.1
PST-2RT	4.9	7.0	5.1
RENAISSANCE (APR 1233)	5.0	6.7	5.1
APR 776	5.1	6.0	5.1
ABT-99-4.600	4.9	6.3	5.1
ADMIRE (JR-151)	4.8	7.3	5.1
PARADIGM (APR 1236)	4.9	7.3	5.1
PASSPORT	4.9	6.7	5.1
APR 1231	4.8	6.7	5.0
LPR 98-144	4.8	6.0	5.0
EDGE	4.8	5.7	5.0
RACER	4.8	7.7	5.0
WVPB-R-84	4.6	7.0	4.9
PROWLER (APR 777)	4.7	7.0	4.8
AFFINITY	4.8	5.3	4.8
DP LP-1	4.6	6.0	4.7
HEADSTART	4.7	5.7	4.7
WVPB-R-82	4.4	6.3	4.6
BY-100	4.5	5.3	4.5
YATSUGREEN	4.4	5.3	4.5
DP 17-9496	4.3	5.3	4.5
DP 17-9391	4.3	5.3	4.3
DP 17-9069	4.0	6.7	4.3
LINN	4.0	5.0	4.2
LSD VALUE	1.2	0.8	1.1
C.V. (%)	14.2	6.9	13.7

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.

3/ WINTER COLOR RATED AT "VA1" IN 2000-01 & 2003, AND AT "WA4" IN 2000.

TABLE 16. PERCENT WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA 2/

PERCENT WINTER KILL RATINGS: LOCATIONS 3/

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-2SBE)	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 16. PERCENT WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA 2/

PERCENT WINTER KILL RATINGS: LOCATIONS 3/

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.

3/ PERCENT WINTER KILL RATED IN 2003 ONLY.

TABLE 17. DROUGHT TOLERANCE (WILTING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/ 3/			
NAME	VA1	NAME	VA1
PASSPORT	4.7	STELLAR (CIS-PR-72)	3.0
ABT-99-4.115	4.3	SUNKISSED (ABT-99-4.834)	3.0
AFFINITY	4.3	YATSUGREEN	3.0
ABT-99-4.965	4.0	ABT-99-4.560	2.7
CALYPSO II	4.0	ABT-99-4.600	2.7
EDGE	4.0	APR 1234	2.7
SR 4420 (SRX 4820)	4.0	APR 776	2.7
WILMINGTON	4.0	ASCEND	2.7
ALLSPORT	3.7	BLAZER IV (PICK MDR)	2.7
APPLAUD (PENNINGTON-11301)	3.7	CHARGER II	2.7
PANTHER	3.7	COURAGE (MB 410)	2.7
PARADIGM (APR 1236)	3.7	CRUISER (ABT-99-4.709)	2.7
BRIGHTSTAR II	3.3	DAZZLE (ABT-99-4.724)	2.7
BRIGHTSTAR SLT (PST-2A6B)	3.3	DIVINE	2.7
BUCCANEER	3.3	EP53	2.7
CATALINA II (PST-CATS)	3.3	LINE DRIVE	2.7
ELFKIN	3.3	LS 2100 (PST-2SBE)	2.7
MDP	3.3	LTP-ME	2.7
PALMER III	3.3	MACH 1 (ROBERTS-627)	2.7
PIZZAZZ	3.3	MAJESTY	2.7
RACER	3.3	PICK EX2	2.7
SPLENDID (MB 411)	3.3	PICK PR B-97	2.7
SR 4350 (APR 1237)	3.3	PICK PRNGS	2.7
WVPB-R-84	3.3	PINNACLE II (BAR 9 B2)	2.7
ABT-99-4.464	3.0	PREMIER II	2.7
ADMIRE (JR-151)	3.0	PST-2JH	2.7
ALL STAR2 (CIS-PR-78)	3.0	QUEST II (ABT-99-4.721)	2.7
APR 1231	3.0	SALINAS (PST-2SLX)	2.7
APR 1232	3.0	SR 4220 (SRX 4801)	2.7
ARRIVAL (CIS-PR-84)	3.0	SUPERSTAR (EP57)	2.7
BARLENNIUM	3.0	TERRADYNE (A5C)	2.7
CAS-LP84	3.0	WVPB-R-82	2.7
CATHEDRAL II	3.0	ABT-99-4.815	2.3
CHURCHILL	3.0	AFFIRMED	2.3
EXACTA	3.0	APR 1235	2.3
FIESTA 3	3.0	BY-100	2.3
GRAND SLAM 2L96 (PST-2L96)	3.0	CATALINA	2.3
HAWKEYE (SRX 4RHT)	3.0	CHARISMATIC (LTP 98-501)	2.3
IQ (CIS-PR-75)	3.0	CITATION FORE (PST-2BR)	2.3
KOKOMO (CIS-PR-69)	3.0	DLF-LDD	2.3
LPR 98-144	3.0	DP 17-9391	2.3
PR 1-94 (PICK PR 1-94)	3.0	EXTREME (JR-317)	2.3
PREMIER	3.0	GALLERY (MB 412)	2.3
PROMISE	3.0	ICON (MB 414)	2.3
SR 4500	3.0	INSPIRE (R8000)	2.3
SRX 4120	3.0	JET	2.3
		JR-128	2.3

TABLE 17. DROUGHT TOLERANCE (WILTING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/ 3/

NAME	VA1
LPR 98-143	2.3
MANHATTAN 4 (PST-2CRL)	2.3
MEPY	2.3
MP103	2.3
NEXUS	2.3
PACESETTER (6011)	2.3
PARAGON	2.3
PEARL II (EPD)	2.3
PENNANT II	2.3
PENTIUM (NJ-6401)	2.3
PHANTOM	2.3
PICK PR QH-97	2.3
PLEASURE XL	2.3
PROTYME (ABT-99-4.625)	2.3
PROWLER (APR 777)	2.3
PST-2CRR	2.3
PST-2LA	2.3
PST-2M4	2.3
PST-2RT	2.3
RACER II (PICK RC2)	2.3
RADIANT	2.3
RENAISSANCE (APR 1233)	2.3
SUMMERSET (MB 413)	2.3
ABT-99-4.339	2.0
AMAZING (B1)	2.0
CABO (CIS-PR-80)	2.0
DP 17-9069	2.0
DP 17-9496	2.0
DP LP-1	2.0
GATOR 3 (CIS-PR-85)	2.0
HEADSTART	2.0
KOOS R-71	2.0
LINN	2.0
MANHATTAN 3	2.0
MONTEREY II (JR-187)	2.0
MP107	2.0
MP88	2.0
PROSPORT (AG-P981)	2.0
SECRETARIAT	2.0
SEVILLE II	2.0
SKYHAWK	2.0
LSD VALUE	1.5
C.V. (%)	33.2

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.

3/ DROUGHT TOLERANCE (WILTING) RATED IN 2002 ONLY.

TABLE 18. TYPHULA BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

TYPHULA BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	SD1	NAME	SD1
LTP-ME	7.5	SUNKISSED (ABT-99-4.834)	4.8
APPLAUD (PENNINGTON-11301)	5.7	AFFINITY	4.7
EDGE	5.6	BLAZER IV (PICK MDR)	4.7
LPR 98-144	5.5	CATALINA II (PST-CATS)	4.7
PALMER III	5.5	DIVINE	4.7
HEADSTART	5.4	GATOR 3 (CIS-PR-85)	4.7
ABT-99-4.115	5.3	JET	4.7
IQ (CIS-PR-75)	5.3	MONTEREY II (JR-187)	4.7
DAZZLE (ABT-99-4.724)	5.3	MP107	4.7
STELLAR (CIS-PR-72)	5.3	NEXUS	4.7
ALL STAR2 (CIS-PR-78)	5.2	PASSPORT	4.7
GRAND SLAM 2L96 (PST-2L96)	5.2	PENTIUM (NJ-6401)	4.7
PARADIGM (APR 1236)	5.2	PREMIER II	4.7
PICK EX2	5.2	SPLENDID (MB 411)	4.7
PROSPORT (AG-P981)	5.2	YATSUGREEN	4.7
SR 4420 (SRX 4820)	5.2	APR 776	4.7
WVPB-R-84	5.2	DLF-LDD	4.7
BRIGHTSTAR SLT (PST-2A6B)	5.2	SR 4350 (APR 1237)	4.7
RADIANT	5.2	SRX 4120	4.7
CATHEDRAL II	5.1	SUPERSTAR (EP57)	4.7
ABT-99-4.339	5.0	CABO (CIS-PR-80)	4.6
ABT-99-4.600	5.0	APR 1235	4.5
ABT-99-4.965	5.0	BARLENNIUM	4.5
ARRIVAL (CIS-PR-84)	5.0	CHURCHILL	4.5
DP 17-9391	5.0	DP 17-9496	4.5
LS 2100 (PST-2SBE)	5.0	EXACTA	4.5
MANHATTAN 3	5.0	EXTREME (JR-317)	4.5
PST-2CRR	5.0	FIESTA 3	4.5
PST-2M4	5.0	INSPIRE (R8000)	4.5
QUEST II (ABT-99-4.721)	5.0	KOOS R-71	4.5
WVPB-R-82	5.0	MANHATTAN 4 (PST-2CRL)	4.5
CHARISMATIC (LTP 98-501)	4.9	PACESETTER (6011)	4.5
ABT-99-4.560	4.8	PANTHER	4.5
ELFKIN	4.8	PARAGON	4.5
LPR 98-143	4.8	PHANTOM	4.5
SR 4220 (SRX 4801)	4.8	PINNACLE II (BAR 9 B2)	4.5
ABT-99-4.464	4.8	PST-2RT	4.5
ABT-99-4.815	4.8	RENAISSANCE (APR 1233)	4.5
BUCCANEER	4.8	TERRADYNE (A5C)	4.5
CALYPSO II	4.8	APR 1232	4.4
COURAGE (MB 410)	4.8	CATALINA	4.3
DP 17-9069	4.8	EP53	4.3
HAWKEYE (SRX 4RHT)	4.8	MP103	4.3
KOKOMO (CIS-PR-69)	4.8	PEARL II (EPD)	4.3
MACH 1 (ROBERTS-627)	4.8	SEVILLE II	4.3
PREMIER	4.8	SR 4500	4.3
		ASCEND	4.3

TABLE 18. TYPHULA BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

TYPHULA BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	SD1
BY-100	4.3
CAS-LP84	4.3
CRUISER (ABT-99-4.709)	4.3
DP LP-1	4.3
SKYHAWK	4.3
WILMINGTON	4.3
ADMIRE (JR-151)	4.2
AFFIRMED	4.2
APR 1231	4.2
APR 1234	4.2
CITATION FORE (PST-2BR)	4.2
LINE DRIVE	4.2
MDP	4.2
PENNANT II	4.2
PICK PR QH-97	4.2
PICK PRNGS	4.2
PIZZAZZ	4.2
PROMISE	4.2
RACER II (PICK RC2)	4.2
SUMMERSET (MB 413)	4.2
PROWLER (APR 777)	4.2
SALINAS (PST-2SLX)	4.1
ALLSPORT	4.0
BRIGHTSTAR II	4.0
JR-128	4.0
LINN	4.0
MAJESTY	4.0
MEPY	4.0
PR 1-94 (PICK PR 1-94)	4.0
PST-2LA	4.0
SECRETARIAT	4.0
MP88	3.9
PST-2JH	3.8
AMAZING (B1)	3.8
CHARGER II	3.8
GALLERY (MB 412)	3.8
PICK PR B-97	3.8
RACER	3.8
ICON (MB 414)	3.7
PROTYME (ABT-99-4.625)	3.7
PLEASURE XL	3.5
LSD VALUE	1.7
C.V. (%)	23.4

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.

3/ TYPHULA BLIGHT RATED IN 2001-02.

TABLE 19. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	WA3	NAME	WA3
CITATION FORE (PST-2BR)	7.0	CRUISER (ABT-99-4.709)	5.3
MACH 1 (ROBERTS-627)	7.0	DAZZLE (ABT-99-4.724)	5.3
GATOR 3 (CIS-PR-85)	6.7	EXACTA	5.3
BLAZER IV (PICK MDR)	6.3	HEADSTART	5.3
KOKOMO (CIS-PR-69)	6.3	JR-128	5.3
PENTIUM (NJ-6401)	6.3	LS 2100 (PST-2SBE)	5.3
PIZZAZZ	6.3	PARAGON	5.3
SR 4220 (SRX 4801)	6.3	PREMIER II	5.3
AMAZING (B1)	6.0	PST-2LA	5.3
APPLAUD (PENNINGTON-11301)	6.0	RADIANT	5.3
ARRIVAL (CIS-PR-84)	6.0	SPLENDID (MB 411)	5.3
BRIGHTSTAR II	6.0	SR 4420 (SRX 4820)	5.3
CABO (CIS-PR-80)	6.0	SUMMERSET (MB 413)	5.3
HAWKEYE (SRX 4RHT)	6.0	WILMINGTON	5.3
INSPIRE (R8000)	6.0	ABT-99-4.600	5.0
IQ (CIS-PR-75)	6.0	AFFIRMED	5.0
PICK PR QH-97	6.0	APR 1231	5.0
PINNACLE II (BAR 9 B2)	6.0	APR 1232	5.0
PROMISE	6.0	APR 1235	5.0
QUEST II (ABT-99-4.721)	6.0	CALYPSO II	5.0
SEVILLE II	6.0	CATALINA II (PST-CATS)	5.0
SUNKISSED (ABT-99-4.834)	6.0	CHURCHILL	5.0
TERRADYNE (A5C)	6.0	COURAGE (MB 410)	5.0
ABT-99-4.115	5.7	DIVINE	5.0
ABT-99-4.965	5.7	ELFKIN	5.0
ALL STAR2 (CIS-PR-78)	5.7	ICON (MB 414)	5.0
ASCEND	5.7	KOOS R-71	5.0
BARLENNIUM	5.7	LINE DRIVE	5.0
CHARISMATIC (LTP 98-501)	5.7	LPR 98-143	5.0
DLF-LDD	5.7	MANHATTAN 3	5.0
FIESTA 3	5.7	MEPY	5.0
GALLERY (MB 412)	5.7	MP103	5.0
GRAND SLAM 2L96 (PST-2L96)	5.7	MP107	5.0
JET	5.7	PENNANT II	5.0
MAJESTY	5.7	PICK PR B-97	5.0
MANHATTAN 4 (PST-2CRL)	5.7	PICK PRNGS	5.0
NEXUS	5.7	PLEASURE XL	5.0
PACESETTER (6011)	5.7	PROWLER (APR 777)	5.0
RENAISSANCE (APR 1233)	5.7	RACER	5.0
SALINAS (PST-2SLX)	5.7	SECRETARIAT	5.0
STELLAR (CIS-PR-72)	5.7	SKYHAWK	5.0
WVPB-R-84	5.7	SR 4500	5.0
ABT-99-4.464	5.3	SRX 4120	5.0
ABT-99-4.560	5.3	SUPERSTAR (EP57)	5.0
APR 776	5.3	ABT-99-4.339	4.7
CATALINA	5.3	ABT-99-4.815	4.7
		AFFINITY	4.7



TABLE 19. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	WA3
ALLSPORT	4.7
BRIGHTSTAR SLT (PST-2A6B)	4.7
CAS-LP84	4.7
EP53	4.7
LPR 98-144	4.7
LTP-ME	4.7
MDP	4.7
MONTEREY II (JR-187)	4.7
PALMER III	4.7
PASSPORT	4.7
PHANTOM	4.7
PICK EX2	4.7
PR 1-94 (PICK PR 1-94)	4.7
PST-2CRR	4.7
PST-2JH	4.7
PST-2M4	4.7
RACER II (PICK RC2)	4.7
SR 4350 (APR 1237)	4.7
ADMIRE (JR-151)	4.3
APR 1234	4.3
BUCCANEER	4.3
BY-100	4.3
CHARGER II	4.3
DP 17-9069	4.3
EDGE	4.3
EXTREME (JR-317)	4.3
PANTHER	4.3
PARADIGM (APR 1236)	4.3
PEARL II (EPD)	4.3
PREMIER	4.3
PROSPORT (AG-P981)	4.3
PROTYME (ABT-99-4.625)	4.3
PST-2RT	4.3
CATHEDRAL II	4.0
DP 17-9391	4.0
DP LP-1	4.0
MP88	4.0
WVPB-R-82	4.0
YATSUGREEN	4.0
DP 17-9496	3.3
LINN	3.0
LSD VALUE	1.0
C.V. (%)	12.2

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.

3/ LEAF SPOT RATED IN 2000 ONLY.

TABLE 20.

STEM RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

STEM RUST RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MI1	NY2	MEAN	NAME	MI1	NY2	MEAN
MACH 1 (ROBERTS-627)	5.7	7.0	7.1	SKYHAWK	3.0	6.3	5.8
CITATION FORE (PST-2BR)	4.7	7.2	6.9	SPLendid (MB 411)	3.7	5.8	5.8
DAZZLE (ABT-99-4.724)	4.3	7.2	6.8	ABT-99-4.115	3.7	6.2	5.8
AMAZING (B1)	5.0	6.7	6.7	ABT-99-4.464	3.3	6.2	5.8
PIZZAZZ	5.3	6.7	6.7	BARLENNIUM	3.7	5.8	5.8
BLAZER IV (PICK MDR)	4.3	6.8	6.6	BRIGHTSTAR SLT (PST-2A6B)	4.0	5.7	5.8
BRIGHTSTAR II	4.0	7.0	6.6	CATALINA	4.0	5.7	5.8
MANHATTAN 4 (PST-2CRL)	4.3	6.7	6.5	GRAND SLAM 2L96 (PST-2L96)	4.0	6.0	5.8
PINNACLE II (BAR 9 B2)	4.0	6.8	6.5	IQ (CIS-PR-75)	4.0	5.8	5.8
ALL STAR2 (CIS-PR-78)	4.0	6.7	6.4	PICK PR QH-97	3.7	5.8	5.8
LS 2100 (PST-2SBE)	4.0	6.7	6.4	PROWLER (APR 777)	3.0	6.0	5.8
APPLAUD (PENNINGTON-11301)	4.7	6.5	6.3	QUEST II (ABT-99-4.721)	3.7	5.8	5.8
ARRIVAL (CIS-PR-84)	4.0	6.7	6.3	RACER	3.0	6.2	5.8
STELLAR (CIS-PR-72)	4.3	6.5	6.3	ABT-99-4.965	3.3	5.8	5.7
PST-2LA	5.0	6.2	6.3	CHARGER II	3.7	6.0	5.7
SR 4420 (SRX 4820)	4.0	6.5	6.3	COURAGE (MB 410)	3.7	5.8	5.7
GATOR 3 (CIS-PR-85)	4.7	6.2	6.2	CRUISER (ABT-99-4.709)	3.3	6.2	5.7
KOKOMO (CIS-PR-69)	3.7	6.7	6.2	CABO (CIS-PR-80)	3.3	5.7	5.6
PST-2M4	4.0	6.3	6.2	MDP	3.3	6.0	5.6
PROSPORT (AG-P981)	3.3	6.7	6.2	PARADIGM (APR 1236)	3.3	6.0	5.6
SUMMERSET (MB 413)	5.3	6.0	6.2	PHANTOM	3.3	6.0	5.6
INSPIRE (R8000)	3.3	6.5	6.1	PST-2CRR	3.7	5.8	5.6
NEXUS	3.7	6.3	6.1	SUPERSTAR (EP57)	3.3	5.7	5.6
TERRADYNE (A5C)	3.3	6.3	6.1	ASCEND	3.3	5.8	5.6
WILMINGTON	3.3	6.7	6.1	CHURCHILL	3.3	5.8	5.6
SUNKISSED (ABT-99-4.834)	4.0	6.2	6.1	EXACTA	3.7	5.7	5.6
ABT-99-4.560	3.3	6.5	6.0	FIESTA 3	3.3	5.8	5.6
PALMER III	4.0	6.2	6.0	JET	3.7	5.7	5.6
PROMISE	4.0	6.0	6.0	MP88	3.3	5.8	5.6
SEVILLE II	3.7	6.2	6.0	PENTIUM (NJ-6401)	3.7	5.7	5.6
ALLSPORT	3.3	6.3	5.9	RADIANT	3.7	5.7	5.6
SALINAS (PST-2SLX)	3.7	6.2	5.9	ABT-99-4.600	3.0	5.8	5.5
CHARISMATIC (LTP 98-501)	4.3	6.0	5.9	APR 776	3.3	5.5	5.5
MANHATTAN 3	3.7	6.0	5.9	EP53	3.0	6.0	5.5
PENNANT II	4.0	6.2	5.9	PANTHER	3.0	6.0	5.5
SR 4220 (SRX 4801)	4.3	5.8	5.9	PREMIER II	3.0	5.7	5.5
DLF-LDD	3.7	6.0	5.8	MP103	3.0	5.8	5.4
HAWKEYE (SRX 4RHT)	4.7	5.7	5.8	ABT-99-4.339	3.0	5.7	5.4
LINE DRIVE	3.3	6.2	5.8	APR 1235	3.3	5.5	5.4
LTP-ME	3.7	6.3	5.8	CALYPSO II	3.0	5.7	5.4
MP107	3.0	6.3	5.8	ELFKIN	4.3	5.3	5.4
PACESETTER (6011)	4.0	6.0	5.8	GALLERY (MB 412)	3.7	5.5	5.4
PARAGON	4.0	5.8	5.8	ICON (MB 414)	3.7	5.3	5.4
PICK PR B-97	4.0	6.0	5.8	MEPY	3.3	5.5	5.4
PROTYME (ABT-99-4.625)	3.0	6.3	5.8	PST-2JH	3.3	5.5	5.4
PST-2RT	3.7	6.0	5.8	SR 4500	3.7	5.5	5.4
				WVPB-R-84	2.7	5.8	5.3

TABLE 20. STEM RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

STEM RUST RATINGS 1-9; 9=NO DISEASE 2/ 3/			
NAME	MI1	NY2	MEAN
KOOS R-71	3.0	5.7	5.3
PLEASURE XL	3.0	5.5	5.3
RACER II (PICK RC2)	3.0	5.7	5.3
APR 1231	3.0	5.5	5.3
CATALINA II (PST-CATS)	3.0	5.5	5.3
MAJESTY	3.0	5.5	5.3
MONTEREY II (JR-187)	3.0	5.5	5.3
PR 1-94 (PICK PR 1-94)	3.7	5.2	5.3
RENAISSANCE (APR 1233)	3.0	5.7	5.3
SRX 4120	3.3	5.5	5.3
AFFIRMED	3.0	5.5	5.2
CAS-LP84	3.3	5.3	5.2
LPR 98-144	3.3	5.2	5.2
PREMIER	3.0	5.5	5.2
ABT-99-4.815	3.0	5.3	5.2
CATHEDRAL II	3.0	5.3	5.1
DIVINE	3.3	5.2	5.1
EXTREME (JR-317)	3.7	5.0	5.1
PEARL II (EPD)	3.3	5.2	5.1
YATSUGREEN	3.0	5.3	5.1
BY-100	3.0	5.0	5.0
DP 17-9391	3.0	5.3	5.0
LPR 98-143	3.7	5.0	5.0
APR 1234	2.3	5.3	4.9
DP 17-9496	2.3	5.3	4.9
JR-128	3.0	5.0	4.9
SECRETARIAT	3.3	5.0	4.9
SR 4350 (APR 1237)	3.0	5.2	4.9
ADMIRE (JR-151)	3.0	5.0	4.8
DP LP-1	2.7	5.2	4.8
PICK PRNGS	3.7	4.7	4.8
AFFINITY	3.0	4.8	4.8
APR 1232	3.0	4.8	4.8
DP 17-9069	3.0	4.8	4.7
PASSPORT	3.0	4.7	4.7
PICK EX2	3.0	4.7	4.7
WVPB-R-82	3.0	4.8	4.7
LINN	2.3	5.0	4.6
EDGE	2.7	4.7	4.5
HEADSTART	3.0	4.5	4.5
BUCCANEER	2.7	4.5	4.4
LSD VALUE	1.0	1.5	1.1
C.V. (%)	17.6	18.5	17.0

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.

3/ STEM RUST RATED AT "MI1" IN 2000, AND AT "NY2" IN 2000-01.

TABLE 21. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	KS1	MI1	NJ1	NJ2	RI1	MEAN
PENTIUM (NJ-6401)	8.3	6.7	7.7	9.0	6.7	7.7
PST-2M4	8.0	5.7	7.1	8.7	5.7	7.2
AMAZING (B1)	7.0	5.7	7.1	7.7	5.7	7.1
SALINAS (PST-2SLX)	6.7	5.7	7.6	7.0	6.7	7.1
APPLAUD (PENNINGTON-11301)	5.7	6.7	6.8	6.7	6.7	7.0
LS 2100 (PST-2SBE)	8.3	5.7	7.6	6.7	6.0	7.0
DLF-LDD	8.7	5.3	6.7	7.7	6.0	7.0
PST-2JH	7.0	4.3	7.1	8.3	7.0	6.9
MACH 1 (ROBERTS-627)	9.0	6.3	6.4	7.3	6.7	6.9
STELLAR (CIS-PR-72)	6.7	5.7	7.4	6.0	7.7	6.9
PIZZAZZ	7.7	5.0	6.8	8.3	5.3	6.9
QUEST II (ABT-99-4.721)	6.7	5.0	7.1	7.0	5.7	6.8
BLAZER IV (PICK MDR)	7.3	5.0	7.3	6.0	4.3	6.8
ABT-99-4.115	6.7	6.3	5.9	8.3	5.7	6.8
ARRIVAL (CIS-PR-84)	4.7	5.0	6.7	7.7	6.7	6.8
ABT-99-4.965	5.7	4.3	6.8	7.3	7.7	6.7
ALL STAR2 (CIS-PR-78)	7.0	6.0	6.3	6.7	7.0	6.7
MANHATTAN 3	7.7	5.0	6.6	8.3	6.7	6.7
CHARISMATIC (LTP 98-501)	5.0	6.7	7.0	6.0	5.3	6.6
NEXUS	6.7	5.0	6.9	6.7	5.7	6.6
PACESETTER (6011)	7.0	5.7	6.6	7.0	5.7	6.6
PARADIGM (APR 1236)	6.3	3.7	7.1	7.7	6.7	6.6
RENAISSANCE (APR 1233)	7.7	5.7	6.9	8.0	5.3	6.6
JET	6.0	5.7	6.6	6.7	6.0	6.6
KOKOMO (CIS-PR-69)	8.3	4.3	6.7	5.7	6.7	6.6
SR 4220 (SRX 4801)	8.0	6.0	6.0	6.3	6.0	6.5
ABT-99-4.560	8.0	5.0	5.9	8.3	6.0	6.4
INSPIRE (R8000)	6.0	5.7	6.1	7.7	5.0	6.4
PROWLER (APR 777)	8.0	6.3	6.8	7.0	5.7	6.4
GRAND SLAM 2L96 (PST-2L96)	8.0	4.3	6.3	6.7	6.0	6.4
PST-2RT	8.3	5.7	6.1	7.3	4.0	6.4
APR 1231	8.3	5.0	6.6	6.0	4.7	6.3
SUNKISSED (ABT-99-4.834)	5.0	3.0	6.6	6.7	6.7	6.3
BRIGHTSTAR II	7.3	3.0	6.6	6.7	6.7	6.3
GALLERY (MB 412)	6.3	2.3	7.0	6.0	6.0	6.3
SEVILLE II	7.3	5.0	6.3	8.0	5.7	6.3
SR 4420 (SRX 4820)	6.7	3.7	6.0	7.7	6.0	6.3
MANHATTAN 4 (PST-2CRL)	5.3	4.3	6.3	6.7	7.3	6.3
SR 4500	7.3	4.3	6.2	6.3	6.7	6.3
PINNACLE II (BAR 9 B2)	6.0	7.7	5.7	6.0	4.7	6.3
PROMISE	7.7	4.3	6.9	6.3	4.7	6.3
APR 1235	6.3	4.3	6.9	7.7	5.3	6.2
PST-2LA	7.7	5.0	6.2	5.3	6.3	6.2
DIVINE	7.0	5.0	6.0	7.3	5.7	6.2
GATOR 3 (CIS-PR-85)	6.7	3.7	6.3	7.0	5.3	6.2
SUMMERSET (MB 413)	7.7	3.0	6.7	6.3	6.3	6.2

TABLE 21. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	KS1	MI1	NJ1	NJ2	RI1	MEAN
PICK PRNGS	7.7	6.0	6.0	6.0	5.3	6.1
YATSUGREEN	5.7	6.3	6.1	7.3	5.0	6.1
CHARGER II	8.3	4.3	6.0	7.3	6.0	6.1
DAZZLE (ABT-99-4.724)	8.3	5.0	6.0	5.7	5.7	6.1
MAJESTY	7.0	5.7	5.8	7.0	4.7	6.1
PICK PR B-97	6.7	5.7	6.3	5.7	5.7	6.1
CATALINA II (PST-CATS)	8.0	3.7	6.3	6.0	7.0	6.1
PROTYME (ABT-99-4.625)	8.3	3.7	6.1	8.0	6.3	6.1
ABT-99-4.464	4.7	5.7	5.9	6.3	6.3	6.1
SPLENDID (MB 411)	6.7	3.7	5.9	6.7	6.3	6.1
CITATION FORE (PST-2BR)	7.3	3.7	6.0	6.0	6.7	6.0
PREMIER II	6.7	7.0	6.1	6.7	4.3	6.0
RACER II (PICK RC2)	6.7	4.3	5.9	7.7	3.7	6.0
SECRETARIAT	5.7	4.3	5.7	7.7	5.3	6.0
PLEASURE XL	6.7	4.3	6.1	6.3	6.0	6.0
EXACTA	7.0	5.0	5.8	6.0	6.3	6.0
ADMIRE (JR-151)	6.3	3.7	5.9	6.0	6.7	5.9
PST-2CRR	7.0	5.7	6.1	6.3	5.3	5.9
APR 776	6.7	4.3	6.4	5.3	6.0	5.9
COURAGE (MB 410)	8.7	3.7	6.0	6.3	4.7	5.9
CRUISER (ABT-99-4.709)	8.0	3.0	5.8	6.7	6.0	5.9
HAWKEYE (SRX 4RHT)	8.3	3.0	5.7	6.7	6.3	5.9
LTP-ME	6.0	5.7	5.3	6.7	5.0	5.9
BARLENNIUM	6.3	4.3	5.8	5.7	5.7	5.9
CALYPSO II	5.3	3.7	6.2	6.0	5.3	5.9
IQ (CIS-PR-75)	8.3	5.0	5.7	5.3	5.7	5.8
WVPB-R-84	7.0	3.0	5.4	7.7	5.3	5.8
LPR 98-144	8.0	2.3	5.9	7.3	4.7	5.8
BRIGHTSTAR SLT (PST-2A6B)	5.3	4.3	5.7	5.3	6.0	5.8
FIESTA 3	7.3	5.0	5.1	7.0	5.0	5.8
PR 1-94 (PICK PR 1-94)	6.0	3.7	5.8	6.3	5.0	5.8
DP 17-9391	6.7	6.0	5.4	5.7	4.3	5.7
PICK PR QH-97	8.3	4.3	5.6	4.7	4.7	5.7
SR 4350 (APR 1237)	5.3	3.7	5.6	7.0	6.0	5.7
DP LP-1	6.0	3.0	6.2	6.0	5.7	5.7
LINN	8.0	6.0	5.4	7.7	6.3	5.7
PANTHER	4.7	4.3	5.8	5.3	5.7	5.7
CATALINA	7.0	3.7	5.7	6.0	5.3	5.6
ABT-99-4.600	7.7	4.3	5.1	5.3	5.0	5.6
WILMINGTON	6.7	2.3	6.4	4.3	5.7	5.6
APR 1232	6.7	3.0	5.6	6.7	5.7	5.6
PICK EX2	7.7	5.7	5.3	7.0	5.0	5.6
MP88	8.3	2.3	5.7	4.7	6.0	5.6
ELFKIN	7.3	5.0	6.1	4.7	5.3	5.6
CABO (CIS-PR-80)	6.3	4.0	5.7	6.0	6.0	5.5
RACER	6.3	3.7	5.6	6.7	5.0	5.5
CHURCHILL	6.3	4.3	5.2	5.0	6.0	5.4
DP 17-9496	6.0	6.3	5.7	7.0	5.0	5.4
PASSPORT	8.3	3.7	5.2	5.3	6.3	5.4
KOOS R-71	6.3	3.0	5.2	6.7	5.0	5.4

TABLE 21. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/						
NAME	KS1	MI1	NJ1	NJ2	RI1	MEAN
MONTEREY II (JR-187)	7.3	5.0	5.1	5.7	4.7	5.4
ABT-99-4.339	6.3	4.3	5.2	5.7	4.7	5.4
PALMER III	6.3	3.7	5.2	5.7	6.0	5.4
CATHEDRAL II	6.7	3.0	4.9	7.0	5.7	5.3
PARAGON	6.3	6.7	5.3	5.7	5.0	5.3
PHANTOM	8.3	3.0	5.0	5.0	5.3	5.3
ASCEND	6.3	3.7	5.4	5.7	5.7	5.3
BY-100	5.7	5.7	4.8	6.0	6.3	5.3
JR-128	5.0	4.3	5.2	4.7	4.3	5.3
APR 1234	6.3	4.3	5.3	6.3	5.0	5.3
LPR 98-143	5.0	4.3	5.3	6.3	4.7	5.3
SKYHAWK	5.3	3.0	5.1	5.7	6.0	5.3
MP107	5.3	1.7	5.1	6.7	5.3	5.2
ABT-99-4.815	4.7	3.7	5.8	3.7	5.7	5.2
AFFINITY	5.7	4.3	5.0	4.7	5.7	5.1
DP 17-9069	5.7	7.0	4.9	5.7	4.3	5.1
ICON (MB 414)	5.0	2.3	5.0	5.7	6.3	5.1
TERRADYNE (A5C)	6.7	4.3	5.0	6.7	5.3	5.1
ALLSPORT	7.3	3.7	5.1	4.3	5.3	5.0
BUCCANEER	6.7	4.3	4.8	6.0	4.3	5.0
RADIANT	5.7	2.3	5.1	5.3	6.3	5.0
PENNANT II	7.3	2.3	4.9	5.7	5.0	5.0
PROSPORT (AG-P981)	6.3	3.0	5.2	4.0	6.3	5.0
EDGE	6.0	3.0	5.1	5.0	5.0	4.9
MEPY	7.3	2.3	4.3	6.0	4.7	4.8
SUPERSTAR (EP57)	4.7	3.0	4.7	5.0	5.7	4.8
AFFIRMED	6.7	5.0	4.2	5.0	5.7	4.8
SRX 4120	7.0	4.3	4.1	6.0	5.7	4.8
LINE DRIVE	5.0	4.3	4.7	5.7	5.7	4.7
PEARL II (EPD)	6.7	3.7	4.7	4.0	5.0	4.6
WVPB-R-82	7.0	4.3	4.2	6.3	3.7	4.6
EP53	8.0	2.3	4.3	5.0	5.0	4.5
HEADSTART	7.0	3.0	4.0	6.0	4.7	4.5
MDP	7.0	3.0	4.3	5.3	5.7	4.5
CAS-LP84	5.0	5.0	3.8	5.7	5.0	4.2
PREMIER	4.0	3.0	4.0	5.3	6.0	4.2
EXTREME (JR-317)	5.7	3.7	4.0	4.7	3.7	4.1
MP103	7.3	1.7	3.6	4.3	4.3	3.9
LSD VALUE	3.2	2.9	2.1	2.3	2.0	1.6
C.V. (%)	29.5	40.6	22.2	22.7	21.7	23.9

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.

3/ DOLLAR SPOT RATED AT "KS1", "MI1" & "RI1" IN 2002, AT "NJ1" IN 2000-02, AND AT "NJ2" IN 2001.

4/ DOLLAR SPOT CAUSED BY SCLEROTINIA HOMEOCARPA AT "NJ1" AND "NJ2".

TABLE 22.

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ1	VA1	WA4	MEAN	NAME	NJ1	VA1	WA4	MEAN
BUCCANEER	9.0	9.0	5.0	7.7	PICK PR QH-97	8.3	6.3	4.7	6.4
IQ (CIS-PR-75)	8.7	8.0	5.7	7.4	RACER	8.3	5.7	5.3	6.4
EDGE	9.0	8.3	4.7	7.3	RENAISSANCE (APR 1233)	8.3	7.0	4.0	6.4
APR 1231	9.0	7.3	5.3	7.2	SUMMERSET (MB 413)	9.0	5.7	4.7	6.4
ADMIRE (JR-151)	8.7	8.0	4.7	7.1	YATSUGREEN	8.3	6.0	5.0	6.4
ALL STAR2 (CIS-PR-78)	8.3	7.0	6.0	7.1	ARRIVAL (CIS-PR-84)	8.0	5.3	6.0	6.4
EXACTA	8.3	8.0	5.0	7.1	ELFKIN	9.0	6.0	4.3	6.4
AFFINITY	9.0	8.0	4.3	7.1	MANHATTAN 4 (PST-2CRL)	8.7	5.3	5.3	6.4
APR 776	9.0	7.7	4.3	7.0	PENNANT II	8.0	6.0	5.3	6.4
GRAND SLAM 2L96 (PST-2L96)	9.0	7.0	5.0	7.0	PROSPORT (AG-P981)	9.0	5.3	5.0	6.4
HAWKEYE (SRX 4RHT)	9.0	6.3	5.7	7.0	ALLSPORT	8.7	5.3	5.0	6.3
SR 4220 (SRX 4801)	9.0	6.7	5.3	7.0	BRIGHTSTAR SLT (PST-2A6B)	9.0	4.7	5.3	6.3
SR 4350 (APR 1237)	9.0	7.7	4.3	7.0	CATALINA	8.3	6.0	4.7	6.3
APR 1234	7.3	7.7	5.7	6.9	DAZZLE (ABT-99-4.724)	9.0	5.7	4.3	6.3
PALMER III	8.7	7.0	5.0	6.9	EXTREME (JR-317)	8.7	6.0	4.3	6.3
SR 4420 (SRX 4820)	8.3	6.3	6.0	6.9	FIESTA 3	8.0	5.7	5.3	6.3
BLAZER IV (PICK MDR)	8.7	6.7	5.0	6.8	STELLAR (CIS-PR-72)	9.0	4.7	5.3	6.3
DP 17-9496	8.3	7.3	4.7	6.8	ABT-99-4.115	7.7	6.7	4.3	6.2
GATOR 3 (CIS-PR-85)	8.3	5.7	6.3	6.8	CATHEDRAL II	8.0	6.0	4.7	6.2
PARAGON	8.3	7.3	4.7	6.8	CHARGER II	9.0	5.0	4.7	6.2
APPLAUD (PENNINGTON-11301)	8.7	5.3	6.3	6.8	CHURCHILL	7.3	6.7	4.7	6.2
KOOS R-71	9.0	7.0	4.3	6.8	PR 1-94 (PICK PR 1-94)	7.3	6.7	4.7	6.2
AFFIRMED	8.3	7.3	4.3	6.7	PROWLER (APR 777)	9.0	4.7	5.0	6.2
KOKOMO (CIS-PR-69)	8.3	6.0	5.7	6.7	SEVILLE II	7.7	5.7	5.3	6.2
LINN	7.7	7.7	4.7	6.7	SPLENDID (MB 411)	8.0	5.7	5.0	6.2
PASSPORT	8.3	7.3	4.3	6.7	APR 1232	8.7	5.3	4.7	6.2
PICK PRNGS	8.3	7.0	4.7	6.7	CABO (CIS-PR-80)	8.7	4.7	5.3	6.2
PST-2LA	8.7	6.7	4.7	6.7	COURAGE (MB 410)	7.3	7.0	4.3	6.2
SALINAS (PST-2SLX)	8.7	5.7	5.7	6.7	GALLERY (MB 412)	8.7	5.0	5.0	6.2
SECRETARIAT	8.7	6.0	5.3	6.7	INSPIRE (R8000)	8.3	5.3	5.0	6.2
WVPB-R-82	8.7	6.3	5.0	6.7	MEPY	8.7	6.0	4.0	6.2
WVPB-R-84	8.7	7.3	4.0	6.7	PIZZAZZ	8.7	4.7	5.3	6.2
BRIGHTSTAR II	7.3	7.7	4.7	6.6	PLEASURE XL	8.3	6.0	4.3	6.2
CHARISMATIC (LTP 98-501)	8.3	6.7	4.7	6.6	TERRADYNE (A5C)	8.0	5.3	5.3	6.2
DP LP-1	9.0	6.0	4.7	6.6	ABT-99-4.560	9.0	4.7	4.7	6.1
RACER II (PICK RC2)	7.7	7.7	4.3	6.6	HEADSTART	8.3	6.0	4.0	6.1
CALYPSO II	7.3	6.3	6.0	6.6	LINE DRIVE	8.7	5.0	4.7	6.1
CITATION FORE (PST-2BR)	8.7	5.3	5.7	6.6	PACESETTER (6011)	8.7	4.7	5.0	6.1
JR-128	8.3	7.0	4.3	6.6	BARLENNIUM	8.0	6.3	4.0	6.1
LPR 98-144	8.7	6.0	5.0	6.6	DP 17-9391	9.0	5.0	4.3	6.1
PICK EX2	8.7	6.0	5.0	6.6	MP107	9.0	5.3	4.0	6.1
SRX 4120	8.3	7.0	4.3	6.6	SR 4500	8.0	6.3	4.0	6.1
LTP-ME	8.3	6.7	4.3	6.4	ABT-99-4.339	8.3	6.0	3.7	6.0
MACH 1 (ROBERTS-627)	8.3	4.0	7.0	6.4	APR 1235	8.3	5.7	4.0	6.0
MP103	8.7	6.0	4.7	6.4	DP 17-9069	8.7	5.3	4.0	6.0
PANTHER	7.7	7.0	4.7	6.4	MP88	8.3	5.3	4.3	6.0
					PINNACLE II (BAR 9 B2)	7.3	5.3	5.3	6.0

TABLE 22. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ1	VA1	WA4	MEAN
PST-2CRR	7.7	5.0	5.0	5.9
QUEST II (ABT-99-4.721)	9.0	4.7	4.0	5.9
RADIANT	9.0	3.0	5.7	5.9
ABT-99-4.464	8.7	4.3	4.7	5.9
DLF-LDD	8.7	5.0	4.0	5.9
EP53	8.3	5.3	4.0	5.9
ICON (MB 414)	8.0	4.3	5.3	5.9
LPR 98-143	9.0	3.7	5.0	5.9
MANHATTAN 3	8.7	4.3	4.7	5.9
MDP	8.3	5.3	4.0	5.9
MONTEREY II (JR-187)	8.7	3.7	5.3	5.9
PHANTOM	8.7	4.3	4.7	5.9
ASCEND	7.7	5.7	4.0	5.8
PENTIUM (NJ-6401)	8.7	4.0	4.7	5.8
ABT-99-4.965	8.7	4.3	4.3	5.8
PST-2RT	7.3	5.7	4.3	5.8
SUNKISSED (ABT-99-4.834)	8.0	5.0	4.3	5.8
CATALINA II (PST-CATS)	7.3	5.3	4.3	5.7
PEARL II (EPD)	8.7	4.0	4.3	5.7
PREMIER	7.7	4.3	5.0	5.7
PREMIER II	7.7	5.3	4.0	5.7
WILMINGTON	8.7	3.3	5.0	5.7
PICK PR B-97	7.7	4.3	4.7	5.6
PROMISE	7.3	4.7	4.7	5.6
PST-2JH	7.7	4.3	4.7	5.6
BY-100	7.3	5.3	4.0	5.6
JET	8.3	3.0	5.3	5.6
SKYHAWK	8.3	4.3	4.0	5.6
AMAZING (B1)	7.7	4.7	4.0	5.4
PARADIGM (APR 1236)	7.0	5.7	3.7	5.4
DIVINE	7.7	4.3	4.3	5.4
PROTYME (ABT-99-4.625)	8.7	3.7	4.0	5.4
MAJESTY	6.0	5.7	4.3	5.3
NEXUS	8.0	3.3	4.7	5.3
SUPERSTAR (EP57)	8.3	3.7	4.0	5.3
ABT-99-4.600	8.0	3.3	4.3	5.2
CRUISER (ABT-99-4.709)	7.0	5.0	3.7	5.2
CAS-LP84	7.3	4.3	4.0	5.2
ABT-99-4.815	7.3	4.3	3.7	5.1
PST-2M4	8.0	3.0	4.3	5.1
LS 2100 (PST-2SBE)	6.7	3.3	4.3	4.8
LSD VALUE	1.7	2.5	1.2	1.8
C.V. (%)	12.8	27.3	15.9	18.7

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.

3/ RED THREAD RATED AT "NJ1" IN 2003, AT "VA1" IN 2002, AND AT "WA4" IN 2000.

4/ RED THREAD CAUSED BY LAETISARIA FUCIFORMIS AT "NJ1".



TABLE 23.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	IL2	ME1	PA1	MEAN	NAME	IL2	ME1	PA1	MEAN
PIZZAZZ	8.3	8.3	7.3	8.1	PREMIER	6.3	8.3	7.0	7.0
GATOR 3 (CIS-PR-85)	8.0	8.3	7.7	8.0	PST-2CRR	6.0	8.3	7.3	6.9
MACH 1 (ROBERTS-627)	7.7	9.0	7.7	8.0	TERRADYNE (A5C)	6.0	7.3	8.3	6.9
SEVILLE II	7.0	9.0	7.7	7.7	ABT-99-4.115	5.7	9.0	7.3	6.9
DAZZLE (ABT-99-4.724)	7.3	8.3	7.3	7.6	EXACTA	5.7	8.7	7.7	6.9
DLF-LDD	7.0	9.0	7.3	7.6	NEXUS	6.3	7.7	7.3	6.9
ALLSPORT	7.0	8.7	7.3	7.5	PICK PR B-97	5.7	8.7	7.7	6.9
AMAZING (B1)	6.3	9.0	8.3	7.5	APPLAUD (PENNINGTON-11301)	5.7	8.7	7.3	6.8
APR 1231	7.3	8.7	6.7	7.5	FIESTA 3	5.7	7.7	8.3	6.8
COURAGE (MB 410)	7.0	9.0	7.0	7.5	JET	5.7	8.3	7.7	6.8
PACESETTER (6011)	6.7	9.0	7.7	7.5	KOKOMO (CIS-PR-69)	5.7	8.3	7.7	6.8
SR 4420 (SRX 4820)	7.0	9.0	7.0	7.5	WVPB-R-84	5.7	7.7	8.3	6.8
SECRETARIAT	6.7	8.3	8.0	7.4	PARAGON	6.0	7.3	8.0	6.8
SR 4500	7.0	8.0	7.7	7.4	APR 1235	5.7	8.7	7.0	6.8
ALL STAR2 (CIS-PR-78)	6.3	9.0	8.0	7.4	ELFKIN	5.3	9.0	7.3	6.8
RACER II (PICK RC2)	6.3	8.7	8.3	7.4	EXTREME (JR-317)	5.7	8.3	7.3	6.8
ARRIVAL (CIS-PR-84)	6.0	9.0	8.3	7.3	ICON (MB 414)	5.3	8.7	7.7	6.8
HAWKEYE (SRX 4RHT)	6.7	8.3	7.7	7.3	LINE DRIVE	5.7	8.3	7.3	6.8
MONTEREY II (JR-187)	6.7	8.7	7.3	7.3	PST-2M4	6.0	7.3	7.7	6.8
PST-2JH	6.7	8.0	8.0	7.3	QUEST II (ABT-99-4.721)	5.7	9.0	6.7	6.8
RACER	6.3	8.7	8.0	7.3	RADIANT	6.0	8.7	6.3	6.8
AFFIRMED	6.7	8.3	7.3	7.3	SALINAS (PST-2SLX)	5.3	8.7	7.7	6.8
CALYPSO II	6.7	8.7	7.0	7.3	PR 1-94 (PICK PR 1-94)	6.0	7.7	7.0	6.7
CRUISER (ABT-99-4.709)	6.7	7.7	8.0	7.3	ABT-99-4.965	6.0	7.3	7.3	6.7
GRAND SLAM 2L96 (PST-2L96)	6.3	9.0	7.3	7.3	APR 1234	6.7	6.0	7.3	6.7
LS 2100 (PST-2SBE)	7.0	8.0	7.0	7.3	BARLENNIUM	5.3	9.0	7.0	6.7
PREMIER II	6.3	9.0	7.3	7.3	CHARGER II	5.7	8.0	7.3	6.7
PROTYME (ABT-99-4.625)	6.3	8.3	8.0	7.3	CITATION FORE (PST-2BR)	5.0	8.7	8.0	6.7
SR 4220 (SRX 4801)	6.3	8.7	7.7	7.3	LTP-ME	5.3	8.7	7.3	6.7
SR 4350 (APR 1237)	6.7	9.0	6.7	7.3	PENTIUM (NJ-6401)	5.0	8.7	8.0	6.7
PICK PR QH-97	6.0	9.0	7.7	7.2	SPLENDID (MB 411)	5.3	8.7	7.3	6.7
CHURCHILL	6.3	8.7	7.3	7.2	BRIGHTSTAR II	5.7	8.3	6.7	6.6
PST-2RT	6.3	8.3	7.7	7.2	BUCCANEER	5.7	7.3	7.7	6.6
APR 776	6.3	8.0	7.7	7.1	BY-100	5.7	8.0	7.0	6.6
PINNACLE II (BAR 9 B2)	5.7	9.0	8.0	7.1	JR-128	6.3	7.7	6.0	6.6
SRX 4120	6.3	7.7	8.0	7.1	MAJESTY	5.3	8.0	7.7	6.6
STELLAR (CIS-PR-72)	6.7	7.3	7.7	7.1	PICK PRNGS	5.3	8.3	7.3	6.6
ABT-99-4.339	6.0	8.7	7.7	7.1	PROWLER (APR 777)	6.3	7.7	6.0	6.6
ABT-99-4.464	6.0	8.7	7.7	7.1	PROSPORT (AG-P981)	6.0	7.0	7.3	6.6
APR 1232	6.3	8.7	7.0	7.1	AFFINITY	5.7	6.7	8.0	6.5
EDGE	6.0	9.0	7.3	7.1	CATALINA II (PST-CATS)	5.3	7.7	7.7	6.5
YATSUGREEN	6.0	7.7	8.7	7.1	INSPIRE (R8000)	5.0	8.3	7.7	6.5
ABT-99-4.560	6.7	7.3	7.3	7.0	IQ (CIS-PR-75)	5.0	9.0	7.0	6.5
ADMIRE (JR-151)	6.3	7.7	7.7	7.0	MANHATTAN 3	5.0	8.0	8.0	6.5
PARADIGM (APR 1236)	5.7	8.3	8.3	7.0	PEARL II (EPD)	5.7	8.3	6.3	6.5
PICK EX2	6.0	8.0	8.0	7.0	PLEASURE XL	6.0	7.7	6.3	6.5
					RENAISSANCE (APR 1233)	5.7	8.3	6.3	6.5

TABLE 23. BROWN PATCH (WARM TEMPERATURE) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	IL2	ME1	PA1	MEAN
SUMMERSET (MB 413)	5.3	8.7	6.7	6.5
SUNKISSED (ABT-99-4.834)	5.0	9.0	7.0	6.5
ABT-99-4.600	5.0	8.0	7.7	6.4
CATHEDRAL II	5.0	9.0	6.7	6.4
CHARISMATIC (LTP 98-501)	5.0	8.0	7.7	6.4
PST-2LA	5.0	8.3	7.3	6.4
ASCEND	5.0	8.7	7.0	6.4
MDP	5.3	8.7	6.3	6.4
MEPY	6.3	7.0	5.7	6.3
DIVINE	5.3	8.7	6.0	6.3
LPR 98-144	6.0	6.0	7.3	6.3
BLAZER IV (PICK MDR)	4.3	9.0	7.3	6.3
CABO (CIS-PR-80)	5.0	8.0	7.0	6.3
CAS-LP84	5.7	7.0	6.7	6.3
DP 17-9496	6.0	5.3	7.7	6.3
EP53	5.7	7.7	6.0	6.3
HEADSTART	4.7	8.3	7.3	6.3
KOOS R-71	5.7	6.3	7.3	6.3
BRIGHTSTAR SLT (PST-2A6B)	4.7	7.7	7.7	6.2
GALLERY (MB 412)	5.0	8.3	6.3	6.2
DP 17-9391	6.0	6.7	5.7	6.1
PANTHER	3.7	9.0	7.7	6.0
PROMISE	4.3	9.0	6.3	6.0
PALMER III	3.3	8.7	8.3	5.9
SUPERSTAR (EP57)	5.0	7.3	6.3	5.9
WVPB-R-82	5.0	6.3	7.3	5.9
MANHATTAN 4 (PST-2CRL)	4.3	8.0	6.7	5.8
MP107	5.3	7.0	5.7	5.8
PHANTOM	4.3	8.3	6.3	5.8
LPR 98-143	5.0	7.3	6.0	5.8
ABT-99-4.815	3.3	9.0	7.3	5.8
CATALINA	4.0	7.7	7.3	5.8
PASSPORT	4.0	8.7	6.3	5.8
SKYHAWK	4.0	8.0	7.0	5.8
WILMINGTON	4.3	7.3	6.7	5.7
DP 17-9069	5.0	5.7	6.0	5.4
MP88	4.3	8.0	5.0	5.4
DP LP-1	4.3	5.7	6.7	5.3
PENNANT II	2.3	9.0	7.0	5.2
MP103	3.0	6.7	6.0	4.7
LINN	3.3	4.3	4.7	3.9
LSD VALUE	2.2	1.8	1.6	1.7
C.V. (%)	23.7	13.4	13.8	18.7

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.

3/ BROWN PATCH RATED AT "IL2" IN 2001, AND AT "ME1" & "PA1" IN 2003.

TABLE 24. CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ1	NAME	NJ1
APPLAUD (PENNINGTON-11301)	8.0	PICK PR QH-97	4.7
STELLAR (CIS-PR-72)	8.0	PST-2M4	4.7
ALL STAR2 (CIS-PR-78)	7.7	SKYHAWK	4.7
ARRIVAL (CIS-PR-84)	7.7	ABT-99-4.464	4.3
KOKOMO (CIS-PR-69)	7.7	KOOS R-71	4.3
AMAZING (B1)	7.3	MONTEREY II (JR-187)	4.3
MACH 1 (ROBERTS-627)	7.3	PACESETTER (6011)	4.3
PINNACLE II (BAR 9 B2)	7.3	PALMER III	4.3
PIZZAZZ	7.3	PREMIER II	4.3
JET	7.0	SR 4500	4.3
LTP-ME	7.0	WVPB-R-82	4.3
SR 4220 (SRX 4801)	7.0	AFFIRMED	4.0
SUNKISSED (ABT-99-4.834)	7.0	ALLSPORT	4.0
BLAZER IV (PICK MDR)	6.7	CALYPSO II	4.0
CHARISMATIC (LTP 98-501)	6.7	LS 2100 (PST-2SBE)	4.0
PENTIUM (NJ-6401)	6.7	PANTHER	4.0
SEVILLE II	6.7	PHANTOM	4.0
GATOR 3 (CIS-PR-85)	6.3	PLEASURE XL	4.0
SR 4420 (SRX 4820)	6.3	PROMISE	4.0
ABT-99-4.115	6.0	PROSPORT (AG-P981)	4.0
CITATION FORE (PST-2BR)	6.0	RACER II (PICK RC2)	4.0
QUEST II (ABT-99-4.721)	6.0	SECRETARIAT	4.0
YATSUGREEN	6.0	WVPB-R-84	4.0
ABT-99-4.560	5.7	ABT-99-4.815	3.7
DLF-LDD	5.7	CATALINA	3.7
PST-2CRR	5.7	DP LP-1	3.7
BRIGHTSTAR II	5.3	ELFKIN	3.7
DP 17-9391	5.3	LPR 98-144	3.7
GRAND SLAM 2L96 (PST-2L96)	5.3	MEPY	3.7
HAWKEYE (SRX 4RHT)	5.3	MP103	3.7
LINN	5.3	PARADIGM (APR 1236)	3.7
ABT-99-4.965	5.0	PICK PRNGS	3.7
BRIGHTSTAR SLT (PST-2A6B)	5.0	PST-2RT	3.7
DAZZLE (ABT-99-4.724)	5.0	RENAISSANCE (APR 1233)	3.7
DP 17-9496	5.0	SUMMERSET (MB 413)	3.7
EXACTA	5.0	ABT-99-4.339	3.3
FIESTA 3	5.0	AFFINITY	3.3
INSPIRE (R8000)	5.0	APR 776	3.3
MANHATTAN 4 (PST-2CRL)	5.0	BARLENNIUM	3.3
PARAGON	5.0	CHARGER II	3.3
PST-2LA	5.0	DP 17-9069	3.3
SALINAS (PST-2SLX)	5.0	EXTREME (JR-317)	3.3
TERRADYNE (A5C)	5.0	GALLERY (MB 412)	3.3
CABO (CIS-PR-80)	4.7	JR-128	3.3
CHURCHILL	4.7	MP107	3.3
IQ (CIS-PR-75)	4.7	NEXUS	3.3
		PASSPORT	3.3

TABLE 24. CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NJ1
PREMIER	3.3
PROTYME (ABT-99-4.625)	3.3
SRX 4120	3.3
SUPERSTAR (EP57)	3.3
ABT-99-4.600	3.0
ADMIRE (JR-151)	3.0
ASCEND	3.0
BUCCANEER	3.0
BY-100	3.0
CAS-LP84	3.0
CRUISER (ABT-99-4.709)	3.0
DIVINE	3.0
EP53	3.0
LPR 98-143	3.0
MANHATTAN 3	3.0
MDP	3.0
PEARL II (EPD)	3.0
PENNANT II	3.0
PICK EX2	3.0
PR 1-94 (PICK PR 1-94)	3.0
PST-2JH	3.0
CATHEDRAL II	2.7
COURAGE (MB 410)	2.7
MP88	2.7
PICK PR B-97	2.7
PROWLER (APR 777)	2.7
SPLENDID (MB 411)	2.7
WILMINGTON	2.7
APR 1231	2.3
APR 1235	2.3
CATALINA II (PST-CATS)	2.3
EDGE	2.3
ICON (MB 414)	2.3
RACER	2.3
RADIANT	2.3
SR 4350 (APR 1237)	2.3
APR 1232	2.0
APR 1234	2.0
HEADSTART	2.0
LINE DRIVE	2.0
MAJESTY	2.0
LSD VALUE	1.2
C.V. (%)	18.2

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.

3/ CROWN RUST RATED IN 2000 ONLY.

4/ CROWN RUST CAUSED BY PUCCINIA CORONATA.

TABLE 25.

GRAY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	IL2	MD2	NJ1	MEAN	NAME	IL2	MD2	NJ1	MEAN
PST-2RT	6.7	8.0	5.7	7.1	LPR 98-143	4.3	6.5	6.7	6.0
SR 4500	6.0	6.7	8.3	6.9	MANHATTAN 4 (PST-2CRL)	5.0	6.5	6.0	6.0
APR 1234	5.7	7.3	7.0	6.8	PINNACLE II (BAR 9 B2)	4.3	6.5	6.7	6.0
CITATION FORE (PST-2BR)	6.3	6.5	8.0	6.8	PLEASURE XL	5.3	7.0	4.7	6.0
SR 4220 (SRX 4801)	6.0	6.7	8.0	6.8	RENAISSANCE (APR 1233)	5.7	6.5	5.3	6.0
STELLAR (CIS-PR-72)	5.3	7.3	7.3	6.8	BRIGHTSTAR SLT (PST-2A6B)	5.7	6.3	5.3	5.9
LS 2100 (PST-2SBE)	6.0	6.8	7.3	6.8	PEARL II (EPD)	4.3	6.7	6.0	5.9
ABT-99-4.560	6.0	6.3	8.0	6.7	PENTIUM (NJ-6401)	5.0	6.5	5.7	5.9
APR 1235	5.0	6.7	8.0	6.6	WILMINGTON	4.3	6.2	7.0	5.9
RACER II (PICK RC2)	5.7	6.8	7.0	6.6	YATSUGREEN	5.7	6.0	6.0	5.9
COURAGE (MB 410)	6.3	7.0	6.0	6.6	SALINAS (PST-2SLX)	4.3	6.5	6.3	5.9
PST-2JH	5.3	7.7	5.7	6.6	AFFIRMED	5.7	6.3	5.0	5.8
ASCEND	5.7	6.5	7.3	6.5	MP88	4.0	6.3	6.7	5.8
DIVINE	5.7	6.7	7.0	6.5	SRX 4120	5.0	6.2	6.0	5.8
KOKOMO (CIS-PR-69)	6.0	6.7	6.7	6.5	BLAZER IV (PICK MDR)	5.7	6.2	5.3	5.8
PST-2LA	5.0	7.0	7.0	6.5	BRIGHTSTAR II	4.3	6.7	5.7	5.8
CABO (CIS-PR-80)	4.7	7.2	6.7	6.4	ICON (MB 414)	4.0	7.0	5.3	5.8
INSPIRE (R8000)	6.7	6.7	5.7	6.4	MP107	4.0	6.3	6.7	5.8
AMAZING (B1)	6.0	6.2	7.0	6.3	PICK PR QH-97	5.0	6.0	6.3	5.8
CALYPSO II	5.7	6.8	6.0	6.3	PREMIER II	5.0	6.5	5.3	5.8
IQ (CIS-PR-75)	5.0	6.2	8.0	6.3	PROWLER (APR 777)	4.7	6.3	6.0	5.8
MAJESTY	5.3	7.2	5.7	6.3	APPLAUD (PENNINGTON-11301)	5.3	6.3	5.0	5.8
SEVILLE II	6.3	5.8	7.3	6.3	JR-128	5.3	5.8	6.0	5.8
PACESETTER (6011)	6.0	6.2	6.7	6.3	PROTYME (ABT-99-4.625)	5.0	5.7	6.7	5.8
PICK EX2	6.0	6.2	6.7	6.3	QUEST II (ABT-99-4.721)	5.3	6.3	5.0	5.8
BARLENNIUM	5.0	6.7	6.7	6.3	RACER	5.0	6.5	5.0	5.8
CRUISER (ABT-99-4.709)	5.0	7.5	5.0	6.3	ABT-99-4.464	4.7	6.7	4.7	5.7
GRAND SLAM 2L96 (PST-2L96)	5.7	6.7	6.0	6.3	APR 776	5.0	6.2	5.3	5.7
PREMIER	5.0	6.3	7.3	6.3	DAZZLE (ABT-99-4.724)	5.0	6.5	4.7	5.7
ALL STAR2 (CIS-PR-78)	5.7	6.7	5.7	6.2	DLF-LDD	5.7	6.7	3.7	5.7
CHARISMATIC (LTP 98-501)	5.7	6.2	6.7	6.2	MANHATTAN 3	4.0	6.2	6.3	5.7
ELFKIN	5.3	6.3	6.7	6.2	FIESTA 3	5.0	6.2	5.3	5.7
PARADIGM (APR 1236)	4.7	7.0	6.0	6.2	CATALINA II (PST-CATS)	4.3	6.3	5.3	5.6
PARAGON	6.3	5.3	7.7	6.2	WVPB-R-84	4.3	6.3	5.3	5.6
PIZZAZZ	5.7	6.7	5.7	6.2	JET	4.7	5.8	5.7	5.5
SECRETARIAT	6.0	6.0	6.7	6.2	ABT-99-4.600	5.0	6.5	4.0	5.5
SR 4350 (APR 1237)	6.0	6.5	5.7	6.2	DP 17-9496	4.7	6.2	5.0	5.5
APR 1232	5.3	6.7	6.0	6.2	EP53	4.3	5.2	7.3	5.5
GATOR 3 (CIS-PR-85)	6.0	6.2	6.3	6.2	NEXUS	4.7	6.0	5.3	5.5
CHARGER II	5.0	7.2	5.0	6.1	SUMMERSET (MB 413)	4.3	5.8	6.0	5.5
LINE DRIVE	5.7	6.8	5.0	6.1	SUNKISSED (ABT-99-4.834)	4.7	5.7	6.0	5.5
PICK PR B-97	5.0	7.0	5.3	6.1	TERRADYNE (A5C)	4.0	6.0	6.0	5.5
PST-2M4	4.3	7.0	6.0	6.1	GALLERY (MB 412)	4.7	5.8	5.3	5.4
RADIANT	4.3	6.3	7.3	6.1	MDP	4.7	5.8	5.3	5.4
ABT-99-4.965	4.7	6.8	5.7	6.0	PICK PRNGS	5.3	5.8	4.7	5.4
EXACTA	5.7	6.0	6.3	6.0	SKYHAWK	4.0	6.2	5.3	5.4
					ABT-99-4.815	4.3	6.2	4.7	5.3

TABLE 25. GRAY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	IL2	MD2	NJ1	MEAN
ARRIVAL (CIS-PR-84)	5.7	6.5	2.7	5.3
EDGE	5.0	6.3	3.7	5.3
SUPERSTAR (EP57)	4.7	5.3	6.0	5.3
APR 1231	5.3	5.7	4.7	5.3
CATHEDRAL II	4.7	5.8	5.0	5.3
CHURCHILL	4.7	5.3	6.0	5.3
DP 17-9391	3.7	6.3	5.0	5.3
MONTEREY II (JR-187)	5.0	5.7	5.0	5.3
PR 1-94 (PICK PR 1-94)	5.3	5.7	4.7	5.3
SR 4420 (SRX 4820)	4.3	5.5	6.0	5.3
ABT-99-4.115	5.0	6.2	3.7	5.3
MACH 1 (ROBERTS-627)	5.7	5.5	4.3	5.3
MEPY	4.0	5.7	5.7	5.3
PHANTOM	4.3	5.8	5.0	5.3
PROMISE	5.0	5.5	5.0	5.3
PROSPORT (AG-P981)	3.7	5.8	5.7	5.3
PST-2CRR	4.3	5.8	5.0	5.3
ADMIRE (JR-151)	5.0	6.3	3.0	5.2
AFFINITY	5.7	5.3	4.3	5.2
ABT-99-4.339	5.3	5.7	4.0	5.2
CAS-LP84	3.0	6.2	5.3	5.2
KOOS R-71	4.7	5.8	4.0	5.1
PENNANT II	4.0	5.7	5.0	5.1
BUCCANEER	4.0	5.2	5.7	5.0
DP LP-1	4.0	5.2	5.7	5.0
SPLENDID (MB 411)	4.3	5.5	4.7	5.0
EXTREME (JR-317)	4.7	5.2	4.7	4.9
MP103	3.3	5.0	6.3	4.9
LPR 98-144	5.3	5.3	3.3	4.8
HAWKEYE (SRX 4RHT)	4.7	5.0	4.3	4.8
HEADSTART	5.0	4.8	4.3	4.8
BY-100	4.7	5.0	4.0	4.7
DP 17-9069	3.3	5.0	5.0	4.6
PALMER III	3.7	5.2	4.3	4.6
CATALINA	4.3	5.0	3.3	4.4
LTP-ME	4.0	4.3	4.7	4.3
WVPB-R-82	4.0	4.8	3.3	4.3
ALLSPORT	4.0	4.8	3.0	4.2
PASSPORT	3.7	3.5	5.0	3.9
LINN	2.3	3.3	4.7	3.4
PANTHER	3.3	3.7	2.0	3.2
LSD VALUE	1.5	1.5	2.5	1.8
C.V. (%)	19.1	15.7	28.0	19.6

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.

3/ GRAY LEAF SPOT RATED AT "IL2" IN 2000, AT "MD2" IN 2001, AND AT "NJ1" IN 2003.

4/ GRAY LEAF SPOT CAUSED BY PYRICULARIA GRISEA AT "IL2" AND "NJ1".

TABLE 26. SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	WI1	NAME	WI1
ABT-99-4.560	6.5	RENAISSANCE (APR 1233)	6.2
DLF-LDD	6.5	ABT-99-4.600	6.0
DP 17-9069	6.5	AFFINITY	6.0
HAWKEYE (SRX 4RHT)	6.5	APR 1231	6.0
JET	6.5	APR 1234	6.0
MP88	6.5	ARRIVAL (CIS-PR-84)	6.0
PACESETTER (6011)	6.5	BRIGHTSTAR II	6.0
PARAGON	6.5	BRIGHTSTAR SLT (PST-2A6B)	6.0
PICK EX2	6.5	BY-100	6.0
PINNACLE II (BAR 9 B2)	6.5	CALYPSO II	6.0
PIZZAZZ	6.5	CATALINA	6.0
ADMIRE (JR-151)	6.3	CATALINA II (PST-CATS)	6.0
ALLSPORT	6.3	CATHEDRAL II	6.0
APPLAUD (PENNINGTON-11301)	6.3	CHARGER II	6.0
DP 17-9391	6.3	CHURCHILL	6.0
FIESTA 3	6.3	DIVINE	6.0
QUEST II (ABT-99-4.721)	6.3	DP LP-1	6.0
SR 4350 (APR 1237)	6.3	EDGE	6.0
SR 4420 (SRX 4820)	6.3	EP53	6.0
SRX 4120	6.3	HEADSTART	6.0
WVPB-R-82	6.3	INSPIRE (R8000)	6.0
ABT-99-4.115	6.2	IQ (CIS-PR-75)	6.0
ABT-99-4.464	6.2	KOKOMO (CIS-PR-69)	6.0
ABT-99-4.965	6.2	MANHATTAN 3	6.0
AMAZING (B1)	6.2	MDP	6.0
APR 1232	6.2	MEPY	6.0
BARLENNIUM	6.2	MP107	6.0
BLAZER IV (PICK MDR)	6.2	NEXUS	6.0
CHARISMATIC (LTP 98-501)	6.2	PASSPORT	6.0
ELFKIN	6.2	PENNANT II	6.0
JR-128	6.2	PICK PR B-97	6.0
KOOS R-71	6.2	PICK PRNGS	6.0
LINE DRIVE	6.2	PST-2JH	6.0
MACH 1 (ROBERTS-627)	6.2	PST-2M4	6.0
MONTEREY II (JR-187)	6.2	RACER II (PICK RC2)	6.0
PALMER III	6.2	SEVILLE II	6.0
PANTHER	6.2	SR 4220 (SRX 4801)	6.0
PEARL II (EPD)	6.2	SR 4500	6.0
PENTIUM (NJ-6401)	6.2	SUPERSTAR (EP57)	6.0
PICK PR QH-97	6.2	WILMINGTON	6.0
PROMISE	6.2	YATSUGREEN	6.0
PST-2LA	6.2	MANHATTAN 4 (PST-2CRL)	5.8
PST-2RT	6.2	ABT-99-4.815	5.8
SALINAS (PST-2SLX)	6.2	AFFIRMED	5.8
SECRETARIAT	6.2	APR 776	5.8
GATOR 3 (CIS-PR-85)	6.2	CABO (CIS-PR-80)	5.8
		CAS-LP84	5.8

TABLE 26. SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	WI1
COURAGE (MB 410)	5.8
DAZZLE (ABT-99-4.724)	5.8
EXACTA	5.8
EXTREME (JR-317)	5.8
GALLERY (MB 412)	5.8
GRAND SLAM 2L96 (PST-2L96)	5.8
LTP-ME	5.8
MAJESTY	5.8
MP103	5.8
PR 1-94 (PICK PR 1-94)	5.8
PREMIER	5.8
PROTYME (ABT-99-4.625)	5.8
STELLAR (CIS-PR-72)	5.8
SUNKISSED (ABT-99-4.834)	5.8
TERRADYNE (A5C)	5.8
CITATION FORE (PST-2BR)	5.7
DP 17-9496	5.7
LS 2100 (PST-2SBE)	5.7
PARADIGM (APR 1236)	5.7
PHANTOM	5.7
PLEASURE XL	5.7
PROWLER (APR 777)	5.7
SKYHAWK	5.7
SPLENDID (MB 411)	5.7
ABT-99-4.339	5.7
LPR 98-143	5.7
PREMIER II	5.7
RACER	5.7
RADIANT	5.7
SUMMERSET (MB 413)	5.7
ALL STAR2 (CIS-PR-78)	5.5
APR 1235	5.5
ICON (MB 414)	5.5
PROSPORT (AG-P981)	5.5
PST-2CRR	5.5
WVPB-R-84	5.5
BUCCANEER	5.3
CRUISER (ABT-99-4.709)	5.3
LPR 98-144	5.3
ASCEND	5.2
LINN	5.0
LSD VALUE	0.8
C.V. (%)	13.5

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.

3/ SNOW MOLD RATED IN 2000-01.



TABLE 27. PINK PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

PINK PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NY1	NAME	NY1
CHARGER II	8.0	ICON (MB 414)	7.3
LPR 98-144	8.0	KOKOMO (CIS-PR-69)	7.3
MANHATTAN 3	8.0	MAJESTY	7.3
PROWLER (APR 777)	8.0	MANHATTAN 4 (PST-2CRL)	7.3
PST-2JH	8.0	MONTEREY II (JR-187)	7.3
SALINAS (PST-2SLX)	8.0	PARADIGM (APR 1236)	7.3
SUMMERSET (MB 413)	8.0	PENTIUM (NJ-6401)	7.3
APR 1232	7.7	PST-2CRR	7.3
APR 776	7.7	PST-2M4	7.3
CALYPSO II	7.7	QUEST II (ABT-99-4.721)	7.3
COURAGE (MB 410)	7.7	RACER	7.3
DLF-LDD	7.7	SR 4350 (APR 1237)	7.3
EXACTA	7.7	STELLAR (CIS-PR-72)	7.3
EXTREME (JR-317)	7.7	YATSUGREEN	7.3
MACH 1 (ROBERTS-627)	7.7	ABT-99-4.339	7.0
PACESETTER (6011)	7.7	ABT-99-4.464	7.0
PASSPORT	7.7	ABT-99-4.815	7.0
PICK EX2	7.7	ABT-99-4.965	7.0
PINNACLE II (BAR 9 B2)	7.7	ADMIRE (JR-151)	7.0
PROTYME (ABT-99-4.625)	7.7	ALL STAR2 (CIS-PR-78)	7.0
PST-2LA	7.7	APPLAUD (PENNINGTON-11301)	7.0
PST-2RT	7.7	BARLENNIUM	7.0
RACER II (PICK RC2)	7.7	BRIGHTSTAR SLT (PST-2A6B)	7.0
RADIANT	7.7	CATALINA II (PST-CATS)	7.0
RENAISSANCE (APR 1233)	7.7	CHARISMATIC (LTP 98-501)	7.0
SPLENDID (MB 411)	7.7	CHURCHILL	7.0
SR 4220 (SRX 4801)	7.7	DIVINE	7.0
SR 4420 (SRX 4820)	7.7	DP 17-9496	7.0
SR 4500	7.7	FIESTA 3	7.0
SUNKISSED (ABT-99-4.834)	7.7	HEADSTART	7.0
WVPB-R-84	7.7	LINE DRIVE	7.0
ABT-99-4.560	7.3	LPR 98-143	7.0
ABT-99-4.600	7.3	MDP	7.0
AFFIRMED	7.3	NEXUS	7.0
AMAZING (B1)	7.3	PANTHER	7.0
APR 1231	7.3	PARAGON	7.0
APR 1234	7.3	PICK PR B-97	7.0
APR 1235	7.3	PICK PR QH-97	7.0
BLAZER IV (PICK MDR)	7.3	PREMIER	7.0
CATALINA	7.3	PREMIER II	7.0
CITATION FORE (PST-2BR)	7.3	TERRADYNE (ASC)	7.0
CRUISER (ABT-99-4.709)	7.3	WILMINGTON	7.0
DP 17-9069	7.3	ABT-99-4.115	6.7
ELFKIN	7.3	AFFINITY	6.7
GALLERY (MB 412)	7.3	ALLSPORT	6.7
GATOR 3 (CIS-PR-85)	7.3	ARRIVAL (CIS-PR-84)	6.7
		ASCEND	6.7

TABLE 27. PINK PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

PINK PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	NY1
BRIGHTSTAR II	6.7
BUCCANEER	6.7
CABO (CIS-PR-80)	6.7
DP 17-9391	6.7
HAWKEYE (SRX 4RHT)	6.7
IQ (CIS-PR-75)	6.7
JET	6.7
JR-128	6.7
LS 2100 (PST-2SBE)	6.7
LTP-ME	6.7
MP88	6.7
PALMER III	6.7
PEARL II (EPD)	6.7
PHANTOM	6.7
PICK PRNGS	6.7
PIZZAZZ	6.7
PROMISE	6.7
SECRETARIAT	6.7
SKYHAWK	6.7
GRAND SLAM 2L96 (PST-2L96)	6.5
CAS-LP84	6.3
CATHEDRAL II	6.3
DAZZLE (ABT-99-4.724)	6.3
DP LP-1	6.3
EDGE	6.3
EP53	6.3
INSPIRE (R8000)	6.3
KOOS R-71	6.3
LINN	6.3
MP103	6.3
PENNANT II	6.3
PR 1-94 (PICK PR 1-94)	6.3
PROSPORT (AG-P981)	6.3
SEVILLE II	6.3
SRX 4120	6.3
SUPERSTAR (EP57)	6.3
BY-100	6.0
MEPY	6.0
MP107	6.0
PLEASURE XL	6.0
WVPB-R-82	6.0
LSD VALUE	1.4
C.V. (%)	12.0

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.

3/ PINK PATCH RATED IN 2001 ONLY.

TABLE 28. FALL COLOR (SEPTEMBER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WI1	NAME	WI1
SUNKISSED (ABT-99-4.834)	7.7	BRIGHTSTAR SLT (PST-2A6B)	6.7
ARRIVAL (CIS-PR-84)	7.5	CAS-LP84	6.7
MACH 1 (ROBERTS-627)	7.5	CRUISER (ABT-99-4.709)	6.7
TERRADYNE (A5C)	7.5	EXACTA	6.7
AMAZING (B1)	7.3	FIESTA 3	6.7
GATOR 3 (CIS-PR-85)	7.3	ICON (MB 414)	6.7
PINNACLE II (BAR 9 B2)	7.3	LTP-ME	6.7
PIZZAZZ	7.3	PALMER III	6.7
ALL STAR2 (CIS-PR-78)	7.2	PARADIGM (APR 1236)	6.7
BLAZER IV (PICK MDR)	7.2	PENNANT II	6.7
DLF-LDD	7.2	PICK PR B-97	6.7
INSPIRE (R8000)	7.2	PICK PR QH-97	6.7
KOKOMO (CIS-PR-69)	7.2	PST-2M4	6.7
SPLENDID (MB 411)	7.2	QUEST II (ABT-99-4.721)	6.7
SR 4220 (SRX 4801)	7.2	SALINAS (PST-2SLX)	6.7
STELLAR (CIS-PR-72)	7.2	SEVILLE II	6.7
ABT-99-4.965	7.0	SUMMERSET (MB 413)	6.7
BRIGHTSTAR II	7.0	ABT-99-4.339	6.5
CABO (CIS-PR-80)	7.0	ABT-99-4.464	6.5
CHARISMATIC (LTP 98-501)	7.0	ABT-99-4.600	6.5
CITATION FORE (PST-2BR)	7.0	ABT-99-4.815	6.5
DAZZLE (ABT-99-4.724)	7.0	ADMIRE (JR-151)	6.5
HAWKEYE (SRX 4RHT)	7.0	CALYPSO II	6.5
IQ (CIS-PR-75)	7.0	CATALINA II (PST-CATS)	6.5
JET	7.0	COURAGE (MB 410)	6.5
PARAGON	7.0	ELFKIN	6.5
RADIANT	7.0	MEPY	6.5
APPLAUD (PENNINGTON-11301)	6.8	MP103	6.5
BARLENNIUM	6.8	PEARL II (EPD)	6.5
CHURCHILL	6.8	PR 1-94 (PICK PR 1-94)	6.5
GALLERY (MB 412)	6.8	PROMISE	6.5
GRAND SLAM 2L96 (PST-2L96)	6.8	PROSPORT (AG-P981)	6.5
MANHATTAN 4 (PST-2CRL)	6.8	PST-2RT	6.5
MDP	6.8	SKYHAWK	6.5
MP88	6.8	SR 4500	6.5
NEXUS	6.8	SUPERSTAR (EP57)	6.5
PENTIUM (NJ-6401)	6.8	AFFIRMED	6.3
PHANTOM	6.8	ALLSPORT	6.3
PREMIER II	6.8	CHARGER II	6.3
PROTYME (ABT-99-4.625)	6.8	LINE DRIVE	6.3
PST-2CRR	6.8	LPR 98-144	6.3
SR 4420 (SRX 4820)	6.8	LS 2100 (PST-2SBE)	6.3
WILMINGTON	6.8	MAJESTY	6.3
PACESETTER (6011)	6.7	MANHATTAN 3	6.3
ABT-99-4.115	6.7	MP107	6.3
ABT-99-4.560	6.7	PANTHER	6.3
ASCEND	6.7		

TABLE 28. FALL COLOR (SEPTEMBER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	WI1
PASSPORT	6.3
PLEASURE XL	6.3
PST-2JH	6.3
PST-2LA	6.3
CATHEDRAL II	6.2
EP53	6.2
EXTREME (JR-317)	6.2
APR 1235	6.2
MONTEREY II (JR-187)	6.2
RACER II (PICK RC2)	6.2
APR 776	6.0
CATALINA	6.0
DIVINE	6.0
JR-128	6.0
LPR 98-143	6.0
PICK PRNGS	6.0
RACER	6.0
SECRETARIAT	6.0
HEADSTART	5.8
SR 4350 (APR 1237)	5.8
SRX 4120	5.8
APR 1231	5.7
APR 1232	5.7
BY-100	5.7
EDGE	5.7
KOOS R-71	5.7
PICK EX2	5.7
PREMIER	5.7
WVPB-R-84	5.7
AFFINITY	5.5
BUCCANEER	5.5
DP LP-1	5.5
PROWLER (APR 777)	5.5
WVPB-R-82	5.5
YATSUGREEN	5.5
RENAISSANCE (APR 1233)	5.3
APR 1234	5.2
DP 17-9069	5.0
DP 17-9496	5.0
DP 17-9391	4.8
LINN	4.0
LSD VALUE	0.7
C.V. (%)	6.4

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.

3/ FALL COLOR (SEPTEMBER) RATED IN 2002-03.

TABLE 29. POA ANNUA RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	WI1	NAME	WI1
ABT-99-4.560	9.0	CAS-LP84	8.7
ABT-99-4.600	9.0	CATALINA	8.7
ALL STAR2 (CIS-PR-78)	9.0	CHARGER II	8.7
ALLSPORT	9.0	CHARISMATIC (LTP 98-501)	8.7
APR 1231	9.0	CHURCHILL	8.7
APR 776	9.0	DIVINE	8.7
BY-100	9.0	DLF-LDD	8.7
CABO (CIS-PR-80)	9.0	DP 17-9496	8.7
CRUISER (ABT-99-4.709)	9.0	EDGE	8.7
DAZZLE (ABT-99-4.724)	9.0	ELFKIN	8.7
DP 17-9069	9.0	EP53	8.7
DP 17-9391	9.0	HAWKEYE (SRX 4RHT)	8.7
DP LP-1	9.0	INSPIRE (R8000)	8.7
EXACTA	9.0	IQ (CIS-PR-75)	8.7
FIESTA 3	9.0	JR-128	8.7
GATOR 3 (CIS-PR-85)	9.0	LPR 98-143	8.7
JET	9.0	LPR 98-144	8.7
KOOS R-71	9.0	LTP-ME	8.7
LINN	9.0	MDP	8.7
MAJESTY	9.0	MONTEREY II (JR-187)	8.7
PALMER III	9.0	MP103	8.7
PARADIGM (APR 1236)	9.0	PACESETTER (6011)	8.7
PASSPORT	9.0	PANTHER	8.7
PHANTOM	9.0	PARAGON	8.7
PICK EX2	9.0	PEARL II (EPD)	8.7
PREMIER II	9.0	PENTIUM (NJ-6401)	8.7
PST-2LA	9.0	PICK PRNGS	8.7
RACER II (PICK RC2)	9.0	PREMIER	8.7
RENAISSANCE (APR 1233)	9.0	PROMISE	8.7
SALINAS (PST-2SLX)	9.0	PROSPORT (AG-P981)	8.7
SR 4350 (APR 1237)	9.0	PROTYME (ABT-99-4.625)	8.7
SR 4500	9.0	PROWLER (APR 777)	8.7
SRX 4120	9.0	PST-2CRR	8.7
SUPERSTAR (EP57)	9.0	PST-2JH	8.7
ABT-99-4.115	8.7	PST-2M4	8.7
ABT-99-4.339	8.7	PST-2RT	8.7
ABT-99-4.815	8.7	QUEST II (ABT-99-4.721)	8.7
AFFINITY	8.7	RACER	8.7
AFFIRMED	8.7	SECRETARIAT	8.7
AMAZING (B1)	8.7	SEVILLE II	8.7
APR 1234	8.7	SUNKISSED (ABT-99-4.834)	8.7
APR 1235	8.7	TERRADYNE (A5C)	8.7
ARRIVAL (CIS-PR-84)	8.7	WVPB-R-82	8.7
ASCEND	8.7	WVPB-R-84	8.7
BLAZER IV (PICK MDR)	8.7	YATSUGREEN	8.7
BRIGHTSTAR II	8.7	ABT-99-4.464	8.3
CALYPSO II	8.7	ABT-99-4.965	8.3

TABLE 29. POA ANNUA RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	WI1
ADMIRE (JR-151)	8.3
APPLAUD (PENNINGTON-11301)	8.3
APR 1232	8.3
BARLENNIUM	8.3
BRIGHTSTAR SLT (PST-2A6B)	8.3
BUCCANEER	8.3
CATALINA II (PST-CATS)	8.3
CATHEDRAL II	8.3
CITATION FORE (PST-2BR)	8.3
COURAGE (MB 410)	8.3
EXTREME (JR-317)	8.3
GALLERY (MB 412)	8.3
HEADSTART	8.3
KOKOMO (CIS-PR-69)	8.3
LINE DRIVE	8.3
LS 2100 (PST-2SBE)	8.3
MACH 1 (ROBERTS-627)	8.3
MANHATTAN 4 (PST-2CRL)	8.3
MP107	8.3
MP88	8.3
PICK PR QH-97	8.3
PIZZAZZ	8.3
PR 1-94 (PICK PR 1-94)	8.3
SPLENDID (MB 411)	8.3
SR 4220 (SRX 4801)	8.3
STELLAR (CIS-PR-72)	8.3
SUMMERSET (MB 413)	8.3
WILMINGTON	8.3
GRAND SLAM 2L96 (PST-2L96)	8.0
MANHATTAN 3	8.0
PENNANT II	8.0
PICK PR B-97	8.0
PINNACLE II (BAR 9 B2)	8.0
RADIANT	8.0
SKYHAWK	8.0
SR 4420 (SRX 4820)	8.0
ICON (MB 414)	7.7
MEPY	7.7
NEXUS	7.7
PLEASURE XL	7.7
LSD VALUE	0.9
C.V. (%)	6.2

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.

3/ POA ANNUA RATED IN 2002 ONLY.

TABLE 30. CRABGRASS RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/ 3/

NAME	NY1	NAME	NY1
DIVINE	7.8	PEARL II (EPD)	7.0
MAJESTY	7.8	PHANTOM	7.0
ABT-99-4.464	7.7	PICK PR QH-97	7.0
ABT-99-4.600	7.7	PICK PRNGS	7.0
AMAZING (B1)	7.7	PROMISE	7.0
DP 17-9496	7.7	ALL STAR2 (CIS-PR-78)	6.8
INSPIRE (R8000)	7.7	BY-100	6.8
MANHATTAN 4 (PST-2CRL)	7.7	CABO (CIS-PR-80)	6.8
MEPY	7.7	CATHEDRAL II	6.8
PROWLER (APR 777)	7.7	PENNANT II	6.8
PST-2CRR	7.7	PLEASURE XL	6.8
SALINAS (PST-2SLX)	7.7	ABT-99-4.965	6.7
SR 4350 (APR 1237)	7.7	ADMIRE (JR-151)	6.7
PIZZAZZ	7.5	APR 1231	6.7
RACER II (PICK RC2)	7.5	APR 1234	6.7
SEVILLE II	7.5	BRIGHTSTAR II	6.7
LPR 98-144	7.3	CATALINA	6.7
ABT-99-4.339	7.3	CHURCHILL	6.7
ALLSPORT	7.3	CITATION FORE (PST-2BR)	6.7
BRIGHTSTAR SLT (PST-2A6B)	7.3	GALLERY (MB 412)	6.7
CATALINA II (PST-CATS)	7.3	MDP	6.7
KOOS R-71	7.3	MP107	6.7
LS 2100 (PST-2SBE)	7.3	NEXUS	6.7
PANTHER	7.3	PST-2RT	6.7
PARAGON	7.3	QUEST II (ABT-99-4.721)	6.7
PENTIUM (NJ-6401)	7.3	SPLENDID (MB 411)	6.7
PICK PR B-97	7.3	HEADSTART	6.5
SKYHAWK	7.3	MACH 1 (ROBERTS-627)	6.5
SUPERSTAR (EP57)	7.3	PICK EX2	6.5
WVPB-R-84	7.3	APR 776	6.3
YATSUGREEN	7.3	BARLENNIUM	6.3
ASCEND	7.2	BLAZER IV (PICK MDR)	6.3
ABT-99-4.560	7.2	EDGE	6.3
AFFINITY	7.2	ICON (MB 414)	6.3
LPR 98-143	7.2	IQ (CIS-PR-75)	6.3
APR 1235	7.0	JR-128	6.3
ARRIVAL (CIS-PR-84)	7.0	LINE DRIVE	6.3
CAS-LP84	7.0	PASSPORT	6.3
EP53	7.0	PINNACLE II (BAR 9 B2)	6.3
EXACTA	7.0	SECRETARIAT	6.3
EXTREME (JR-317)	7.0	SRX 4120	6.3
FIESTA 3	7.0	APPLAUD (PENNINGTON-11301)	6.2
GATOR 3 (CIS-PR-85)	7.0	CALYPSO II	6.2
MANHATTAN 3	7.0	DLF-LDD	6.2
PALMER III	7.0	MP88	6.2
PARADIGM (APR 1236)	7.0	ABT-99-4.115	6.0
		ABT-99-4.815	6.0

TABLE 30. CRABGRASS RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

CRABGRASS RATINGS 1-9; 9=NONE 2/ 3/

NAME	NY1
CHARGER II	6.0
DP 17-9069	6.0
DP 17-9391	6.0
KOKOMO (CIS-PR-69)	6.0
MONTEREY II (JR-187)	6.0
MP103	6.0
PREMIER II	6.0
PROTYME (ABT-99-4.625)	6.0
STELLAR (CIS-PR-72)	6.0
SUNKISSED (ABT-99-4.834)	6.0
WVPB-R-82	6.0
PACESETTER (6011)	5.8
RADIANT	5.8
BUCCANEER	5.7
DAZZLE (ABT-99-4.724)	5.7
ELFKIN	5.7
HAWKEYE (SRX 4RHT)	5.7
PR 1-94 (PICK PR 1-94)	5.7
PST-2LA	5.7
RENAISSANCE (APR 1233)	5.7
SR 4420 (SRX 4820)	5.7
SUMMERSET (MB 413)	5.7
CRUISER (ABT-99-4.709)	5.5
PROSPORT (AG-P981)	5.5
PST-2JH	5.5
WILMINGTON	5.5
PREMIER	5.3
LTP-ME	5.3
RACER	5.3
SR 4220 (SRX 4801)	5.3
SR 4500	5.3
APR 1232	5.2
CHARISMATIC (LTP 98-501)	5.2
JET	5.2
PST-2M4	5.2
TERRADYNE (A5C)	5.2
AFFIRMED	5.0
COURAGE (MB 410)	5.0
DP LP-1	4.5
GRAND SLAM 2L96 (PST-2L96)	4.5
LINN	3.7
LSD VALUE	2.8
C.V. (%)	26.2

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.

3/ CRABGRASS RATED IN 2002-03 ONLY.



TABLE 31.

WINTER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

NAME	WA3	WA4	MEAN	NAME	WA3	WA4	MEAN
SEVILLE II	7.0	8.0	7.5	SPLendid (MB 411)	7.0	6.7	6.8
ADMIRE (JR-151)	6.7	8.0	7.3	YATSUGREEN	5.7	8.0	6.8
BARLENNIUM	7.0	7.7	7.3	ABT-99-4.115	6.3	7.3	6.8
BLAZER IV (PICK MDR)	7.0	7.7	7.3	ABT-99-4.464	6.3	7.3	6.8
HAWKEYE (SRX 4RHT)	6.7	8.0	7.3	APR 1232	6.3	7.3	6.8
JET	6.7	8.0	7.3	CATALINA	6.3	7.3	6.8
PACESETTER (6011)	7.0	7.7	7.3	CATHEDRAL II	6.3	7.3	6.8
PENTIUM (NJ-6401)	7.0	7.7	7.3	CHARISMATIC (LTP 98-501)	6.3	7.3	6.8
PREMIER	7.0	7.7	7.3	COURAGE (MB 410)	6.3	7.3	6.8
EXACTA	7.3	7.3	7.3	DLF-LDD	6.3	7.3	6.8
PENNANT II	7.3	7.3	7.3	EDGE	6.3	7.3	6.8
SR 4500	7.3	7.3	7.3	EXTREME (JR-317)	6.3	7.3	6.8
SRX 4120	7.3	7.3	7.3	IQ (CIS-PR-75)	6.3	7.3	6.8
CITATION FORE (PST-2BR)	6.7	7.7	7.2	LINE DRIVE	6.3	7.3	6.8
ICON (MB 414)	6.7	7.7	7.2	PALMER III	6.3	7.3	6.8
PANTHER	6.7	7.7	7.2	PICK EX2	6.3	7.3	6.8
PARAGON	6.7	7.7	7.2	PIZZAZZ	6.3	7.3	6.8
SR 4420 (SRX 4820)	6.7	7.7	7.2	QUEST II (ABT-99-4.721)	6.3	7.3	6.8
APPLAUD (PENNINGTON-11301)	7.0	7.3	7.2	KOKOMO (CIS-PR-69)	5.7	7.7	6.7
APR 1231	7.0	7.3	7.2	ABT-99-4.600	6.3	7.0	6.7
ELFKIN	7.3	7.0	7.2	ALLSPORT	6.3	7.0	6.7
NEXUS	7.0	7.3	7.2	BY-100	6.3	7.0	6.7
PASSPORT	7.0	7.3	7.2	CALYPSO II	6.0	7.3	6.7
PHANTOM	7.0	7.3	7.2	DIVINE	6.3	7.0	6.7
PREMIER II	7.0	7.3	7.2	DP 17-9069	6.0	7.3	6.7
SR 4220 (SRX 4801)	7.3	7.0	7.2	DP LP-1	6.0	7.3	6.7
AFFIRMED	6.7	7.3	7.0	JR-128	6.0	7.3	6.7
BRIGHTSTAR II	6.7	7.3	7.0	KOOS R-71	6.3	7.0	6.7
CABO (CIS-PR-80)	7.0	7.0	7.0	MANHATTAN 4 (PST-2CRL)	6.0	7.3	6.7
CHARGER II	6.7	7.3	7.0	PROMISE	6.3	7.0	6.7
FIESTA 3	7.0	7.0	7.0	PROWLER (APR 777)	6.0	7.3	6.7
MAJESTY	6.3	7.7	7.0	RADIANT	6.0	7.3	6.7
PICK PRNGS	6.7	7.3	7.0	RENAISSANCE (APR 1233)	6.0	7.3	6.7
PINNACLE II (BAR 9 B2)	6.3	7.7	7.0	SR 4350 (APR 1237)	6.0	7.3	6.7
PLEASURE XL	6.7	7.3	7.0	TERRADYNE (A5C)	6.3	7.0	6.7
SECRETARIAT	6.3	7.7	7.0	WILMINGTON	6.0	7.3	6.7
STELLAR (CIS-PR-72)	7.3	6.7	7.0	ABT-99-4.815	6.3	6.7	6.5
SUNKISSED (ABT-99-4.834)	6.3	7.7	7.0	AMAZING (B1)	6.0	7.0	6.5
WVPB-R-82	6.7	7.3	7.0	CHURCHILL	6.0	7.0	6.5
ABT-99-4.339	6.7	7.0	6.8	DP 17-9496	5.3	7.7	6.5
AFFINITY	6.7	7.0	6.8	GALLERY (MB 412)	5.3	7.7	6.5
APR 1234	6.0	7.7	6.8	GATOR 3 (CIS-PR-85)	6.0	7.0	6.5
MANHATTAN 3	6.7	7.0	6.8	HEADSTART	6.0	7.0	6.5
PST-2JH	6.0	7.7	6.8	INSPIRE (R8000)	6.0	7.0	6.5
RACER	6.0	7.7	6.8	MACH 1 (ROBERTS-627)	5.0	8.0	6.5
RACER II (PICK RC2)	6.0	7.7	6.8	MONTEREY II (JR-187)	5.3	7.7	6.5
				PROSPORT (AG-P981)	5.7	7.3	6.5

TABLE 31. WINTER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/		
	WA3	WA4	MEAN
SUPERSTAR (EP57)	5.7	7.3	6.5
WVPB-R-84	6.0	7.0	6.5
ABT-99-4.560	5.7	7.0	6.3
BUCCANEER	5.7	7.0	6.3
CATALINA II (PST-CATS)	5.7	7.0	6.3
DP 17-9391	5.7	7.0	6.3
LPR 98-144	5.7	7.0	6.3
MP107	5.7	7.0	6.3
PEARL II (EPD)	6.0	6.7	6.3
PST-2CRR	6.0	6.7	6.3
SALINAS (PST-2SLX)	5.7	7.0	6.3
SUMMERSET (MB 413)	5.7	7.0	6.3
PST-2M4	5.3	7.3	6.3
ALL STAR2 (CIS-PR-78)	5.7	6.7	6.2
ASCEND	5.7	6.7	6.2
EP53	5.7	6.7	6.2
LS 2100 (PST-2SBE)	5.7	6.7	6.2
PICK PR QH-97	5.7	6.7	6.2
PR 1-94 (PICK PR 1-94)	5.7	6.7	6.2
APR 1235	5.0	7.3	6.2
ARRIVAL (CIS-PR-84)	5.0	7.3	6.2
BRIGHTSTAR SLT (PST-2A6B)	5.0	7.3	6.2
CRUISER (ABT-99-4.709)	6.0	6.3	6.2
DAZZLE (ABT-99-4.724)	6.0	6.3	6.2
GRAND SLAM 2L96 (PST-2L96)	5.3	7.0	6.2
LPR 98-143	5.3	7.0	6.2
PST-2LA	5.0	7.3	6.2
APR 776	5.3	6.7	6.0
MP103	5.0	7.0	6.0
MP88	5.0	7.0	6.0
PARADIGM (APR 1236)	5.3	6.7	6.0
PICK PR B-97	5.0	7.0	6.0
PROTYME (ABT-99-4.625)	5.0	7.0	6.0
PST-2RT	5.3	6.7	6.0
CAS-LP84	4.7	7.0	5.8
SKYHAWK	5.0	6.7	5.8
LINN	5.3	6.3	5.8
MDP	5.3	6.3	5.8
ABT-99-4.965	4.3	7.0	5.7
MEPY	4.3	7.0	5.7
LTP-ME	4.3	6.0	5.2
LSD VALUE	1.5	1.0	0.9
C.V. (%)	15.4	8.6	12.0

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.

3/ WINTER DENSITY RATED IN 2000 ONLY.

TABLE 32. RUST DISEASE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA

RUST DISEASE RATINGS 1-9; 9=NONE 2/ 3/

NAME	WI1	NAME	WI1
PST-2CRR	6.3	ABT-99-4.560	5.0
STELLAR (CIS-PR-72)	6.3	AFFIRMED	5.0
ALL STAR2 (CIS-PR-78)	6.0	APR 776	5.0
APR 1235	6.0	BARLENNIUM	5.0
ARRIVAL (CIS-PR-84)	6.0	BRIGHTSTAR II	5.0
BLAZER IV (PICK MDR)	6.0	BRIGHTSTAR SLT (PST-2A6B)	5.0
KOKOMO (CIS-PR-69)	6.0	CATALINA	5.0
LINN	6.0	CHARGER II	5.0
MACH 1 (ROBERTS-627)	6.0	CHARISMATIC (LTP 98-501)	5.0
PIZZAZZ	6.0	CHURCHILL	5.0
SR 4220 (SRX 4801)	6.0	CITATION FORE (PST-2BR)	5.0
YATSUGREEN	6.0	COURAGE (MB 410)	5.0
APPLAUD (PENNINGTON-11301)	5.7	CRUISER (ABT-99-4.709)	5.0
DP 17-9496	5.7	DP 17-9391	5.0
GATOR 3 (CIS-PR-85)	5.7	DP LP-1	5.0
PINNACLE II (BAR 9 B2)	5.7	ELFKIN	5.0
PST-2LA	5.7	EXACTA	5.0
QUEST II (ABT-99-4.721)	5.7	HAWKEYE (SRX 4RHT)	5.0
SR 4420 (SRX 4820)	5.7	HEADSTART	5.0
ABT-99-4.965	5.3	JR-128	5.0
AMAZING (B1)	5.3	LINE DRIVE	5.0
CABO (CIS-PR-80)	5.3	LTP-ME	5.0
CALYPSO II	5.3	MAJESTY	5.0
DAZZLE (ABT-99-4.724)	5.3	MANHATTAN 3	5.0
DLF-LDD	5.3	MANHATTAN 4 (PST-2CRL)	5.0
DP 17-9069	5.3	MP107	5.0
EP53	5.3	NEXUS	5.0
FIESTA 3	5.3	PANTHER	5.0
GRAND SLAM 2L96 (PST-2L96)	5.3	PEARL II (EPD)	5.0
INSPIRE (R8000)	5.3	PENTIUM (NJ-6401)	5.0
JET	5.3	PLEASURE XL	5.0
MDP	5.3	PREMIER	5.0
MP103	5.3	PREMIER II	5.0
MP88	5.3	PROSPORT (AG-P981)	5.0
PALMER III	5.3	PROTYME (ABT-99-4.625)	5.0
PHANTOM	5.3	PROWLER (APR 777)	5.0
PST-2JH	5.3	PST-2RT	5.0
PST-2M4	5.3	RADIANT	5.0
RENAISSANCE (APR 1233)	5.3	SKYHAWK	5.0
SALINAS (PST-2SLX)	5.3	SUMMERSET (MB 413)	5.0
SEVILLE II	5.3	SUNKISSED (ABT-99-4.834)	5.0
SPLENDID (MB 411)	5.3	SUPERSTAR (EP57)	5.0
SR 4500	5.3	WVPB-R-82	5.0
TERRADYNE (A5C)	5.3	ABT-99-4.115	4.7
ABT-99-4.339	5.0	ABT-99-4.815	4.7
ABT-99-4.464	5.0	AFFINITY	4.7
		ALLSPORT	4.7

TABLE 32. RUST DISEASE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA

RUST DISEASE RATINGS 1-9; 9=NONE 2/ 3/

NAME	WI1
ASCEND	4.7
BUCCANEER	4.7
CAS-LP84	4.7
CATALINA II (PST-CATS)	4.7
CATHEDRAL II	4.7
DIVINE	4.7
GALLERY (MB 412)	4.7
IQ (CIS-PR-75)	4.7
KOOS R-71	4.7
LPR 98-143	4.7
LPR 98-144	4.7
LS 2100 (PST-2SBE)	4.7
MEPY	4.7
PARADIGM (APR 1236)	4.7
PARAGON	4.7
PASSPORT	4.7
PENNANT II	4.7
PICK PR B-97	4.7
PICK PR QH-97	4.7
PICK PRNGS	4.7
RACER II (PICK RC2)	4.7
SR 4350 (APR 1237)	4.7
ABT-99-4.600	4.3
ADMIRE (JR-151)	4.3
BY-100	4.3
MONTEREY II (JR-187)	4.3
PACESETTER (6011)	4.3
PROMISE	4.3
SECRETARIAT	4.3
WILMINGTON	4.3
APR 1231	4.0
APR 1234	4.0
EDGE	4.0
EXTREME (JR-317)	4.0
ICON (MB 414)	4.0
PICK EX2	4.0
PR 1-94 (PICK PR 1-94)	4.0
RACER	4.0
WVPB-R-84	4.0
APR 1232	3.7
SRX 4120	3.7
LSD VALUE	0.8
C.V. (%)	10.0

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.

3/ RUST DISEASE RATED IN 2000 ONLY.

TABLE 33. MELTING-OUT (JULY) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA 2/ 3/

MELTING-OUT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MO1	NAME	MO1
QUEST II (ABT-99-4.721)	6.3	PARAGON	5.0
EXACTA	6.0	PICK PRNGS	5.0
FIESTA 3	6.0	PINNACLE II (BAR 9 B2)	5.0
INSPIRE (R8000)	6.0	PIZZAZZ	5.0
MANHATTAN 4 (PST-2CRL)	6.0	SR 4220 (SRX 4801)	5.0
RACER II (PICK RC2)	6.0	SUNKISSED (ABT-99-4.834)	5.0
SECRETARIAT	6.0	ABT-99-4.115	4.7
ABT-99-4.339	5.7	ABT-99-4.464	4.7
AFFIRMED	5.7	ADMIRE (JR-151)	4.7
APR 1231	5.7	ALL STAR2 (CIS-PR-78)	4.7
APR 1232	5.7	AMAZING (B1)	4.7
CITATION FORE (PST-2BR)	5.7	APPLAUD (PENNINGTON-11301)	4.7
EDGE	5.7	ARRIVAL (CIS-PR-84)	4.7
GATOR 3 (CIS-PR-85)	5.7	CATALINA II (PST-CATS)	4.7
IQ (CIS-PR-75)	5.7	COURAGE (MB 410)	4.7
PACESETTER (6011)	5.7	HAWKEYE (SRX 4RHT)	4.7
YATSUGREEN	5.7	JET	4.7
APR 776	5.3	LINE DRIVE	4.7
BRIGHTSTAR II	5.3	MONTEREY II (JR-187)	4.7
CATHEDRAL II	5.3	PEARL II (EPD)	4.7
DAZZLE (ABT-99-4.724)	5.3	PICK EX2	4.7
EP53	5.3	PR 1-94 (PICK PR 1-94)	4.7
MANHATTAN 3	5.3	PST-2CRR	4.7
MP88	5.3	PST-2LA	4.7
PALMER III	5.3	SR 4350 (APR 1237)	4.7
PENTIUM (NJ-6401)	5.3	SR 4420 (SRX 4820)	4.7
PICK PR B-97	5.3	AFFINITY	4.3
PLEASURE XL	5.3	BARLENNIUM	4.3
PREMIER	5.3	BLAZER IV (PICK MDR)	4.3
PST-2M4	5.3	BY-100	4.3
SEVILLE II	5.3	CATALINA	4.3
ABT-99-4.815	5.0	CHARGER II	4.3
ASCEND	5.0	DLF-LDD	4.3
BRIGHTSTAR SLT (PST-2A6B)	5.0	DP 17-9391	4.3
CALYPSO II	5.0	KOOS R-71	4.3
CHARISMATIC (LTP 98-501)	5.0	LTP-ME	4.3
CHURCHILL	5.0	MAJESTY	4.3
DIVINE	5.0	MEPY	4.3
DP 17-9069	5.0	PANTHER	4.3
ELFKIN	5.0	PST-2JH	4.3
EXTREME (JR-317)	5.0	PST-2RT	4.3
KOKOMO (CIS-PR-69)	5.0	SALINAS (PST-2SLX)	4.3
LS 2100 (PST-2SBE)	5.0	SKYHAWK	4.3
MACH 1 (ROBERTS-627)	5.0	STELLAR (CIS-PR-72)	4.3
MP103	5.0	SUMMERSET (MB 413)	4.3
MP107	5.0	SUPERSTAR (EP57)	4.3
		TERRADYNE (A5C)	4.3

TABLE 33. MELTING-OUT (JULY) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA 2/ 3/

MELTING-OUT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	M01
ABT-99-4.560	4.0
ABT-99-4.600	4.0
APR 1234	4.0
CRUISER (ABT-99-4.709)	4.0
GALLERY (MB 412)	4.0
GRAND SLAM 2L96 (PST-2L96)	4.0
HEADSTART	4.0
JR-128	4.0
LPR 98-143	4.0
NEXUS	4.0
PREMIER II	4.0
PROMISE	4.0
PROWLER (APR 777)	4.0
RACER	4.0
RADIANT	4.0
SR 4500	4.0
SRX 4120	4.0
WILMINGTON	4.0
APR 1235	3.7
BUCCANEER	3.7
CABO (CIS-PR-80)	3.7
CAS-LP84	3.7
DP 17-9496	3.7
ICON (MB 414)	3.7
LPR 98-144	3.7
MDP	3.7
PARADIGM (APR 1236)	3.7
PHANTOM	3.7
PROSPORT (AG-P981)	3.7
PROTYME (ABT-99-4.625)	3.7
RENAISSANCE (APR 1233)	3.7
SPLENDID (MB 411)	3.7
WVPB-R-84	3.7
ALLSPORT	3.3
WVPB-R-82	3.3
PASSPORT	3.0
PENNANT II	3.0
PICK PR QH-97	3.0
ABT-99-4.965	2.7
DP LP-1	2.7
LINN	2.0
LSD VALUE	1.9
C.V. (%)	26.2

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.

3/ MELTING-OUT (JULY) RATED IN 2000 ONLY.

4/ MELTING-OUT CAUSED BY DRECHSLERR SP.

TABLE 34.

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 AT BLACKSBURG, VA 1/  
 2000-30 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	JUNE	JULY	MEAN	NAME	JUNE	JULY	MEAN
CALYPSO II	7.7	6.7	7.2	PENTIUM (NJ-6401)	6.7	4.3	5.5
CHURCHILL	8.3	5.7	7.0	RACER II (PICK RC2)	6.7	4.3	5.5
CHARISMATIC (LTP 98-501)	8.0	5.7	6.8	ABT-99-4.600	6.3	4.3	5.3
PICK EX2	8.3	5.3	6.8	LPR 98-144	6.3	4.3	5.3
DLF-LDD	8.3	5.0	6.7	PR 1-94 (PICK PR 1-94)	6.3	4.3	5.3
BY-100	7.3	5.7	6.5	APR 1231	6.0	4.3	5.2
EDGE	7.7	5.3	6.5	BRIGHTSTAR SLT (PST-2A6B)	6.7	3.7	5.2
ABT-99-4.464	7.7	5.0	6.3	DAZZLE (ABT-99-4.724)	6.7	3.7	5.2
ABT-99-4.815	7.3	5.3	6.3	JET	6.7	3.7	5.2
CITATION FORE (PST-2BR)	7.7	5.0	6.3	LINE DRIVE	6.7	3.7	5.2
EXACTA	7.7	5.0	6.3	PST-2JH	6.7	3.7	5.2
SR 4220 (SRX 4801)	7.7	5.0	6.3	SR 4500	6.0	4.3	5.2
CATHEDRAL II	7.3	5.0	6.2	SUMMERSET (MB 413)	6.3	4.0	5.2
CRUISER (ABT-99-4.709)	7.3	5.0	6.2	WVPB-R-84	6.3	4.0	5.2
GRAND SLAM 2L96 (PST-2L96)	7.0	5.3	6.2	APR 776	6.3	3.7	5.0
PICK PR QH-97	7.3	5.0	6.2	MANHATTAN 4 (PST-2CRL)	6.3	3.7	5.0
STELLAR (CIS-PR-72)	8.0	4.3	6.2	PROWLER (APR 777)	6.0	4.0	5.0
ADMIRE (JR-151)	6.7	5.3	6.0	PST-2RT	6.3	3.7	5.0
BARLENNIUM	7.3	4.7	6.0	QUEST II (ABT-99-4.721)	6.3	3.7	5.0
BUCCANEER	7.0	5.0	6.0	YATSUGREEN	5.7	4.3	5.0
ELFKIN	7.0	5.0	6.0	ABT-99-4.115	5.3	4.3	4.8
EXTREME (JR-317)	6.7	5.3	6.0	ABT-99-4.560	5.7	4.0	4.8
MONTEREY II (JR-187)	7.0	5.0	6.0	BLAZER IV (PICK MDR)	5.3	4.3	4.8
PIZZAZZ	7.0	5.0	6.0	EP53	5.3	4.3	4.8
SECRETARIAT	7.3	4.7	6.0	ICON (MB 414)	5.7	4.0	4.8
ABT-99-4.339	6.7	5.0	5.8	JR-128	6.0	3.7	4.8
ABT-99-4.965	7.3	4.3	5.8	LINN	7.0	2.7	4.8
AMAZING (B1)	7.3	4.3	5.8	LTP-ME	5.7	4.0	4.8
COURAGE (MB 410)	7.3	4.3	5.8	MDP	6.0	3.7	4.8
FIESTA 3	7.0	4.7	5.8	PACESETTER (6011)	6.3	3.3	4.8
KOKOMO (CIS-PR-69)	6.7	5.0	5.8	SR 4350 (APR 1237)	5.3	4.3	4.8
PICK PRNGS	6.7	5.0	5.8	SUPERSTAR (EP57)	6.0	3.7	4.8
PREMIER II	6.7	5.0	5.8	TERRADYNE (A5C)	6.3	3.3	4.8
SR 4420 (SRX 4820)	6.7	5.0	5.8	ALLSPORT	5.7	3.7	4.7
SUNKISSED (ABT-99-4.834)	7.3	4.3	5.8	APR 1232	5.3	4.0	4.7
AFFINITY	7.0	4.3	5.7	ASCEND	5.7	3.7	4.7
APPLAUD (PENNINGTON-11301)	7.3	4.0	5.7	CATALINA	5.3	4.0	4.7
HAWKEYE (SRX 4RHT)	6.7	4.7	5.7	CATALINA II (PST-CATS)	5.3	4.0	4.7
INSPIRE (R8000)	7.3	4.0	5.7	DP 17-9069	5.3	4.0	4.7
PLEASURE XL	7.3	4.0	5.7	DP 17-9496	5.3	4.0	4.7
SRX 4120	7.0	4.3	5.7	MACH 1 (ROBERTS-627)	5.7	3.7	4.7
AFFIRMED	6.7	4.3	5.5	MEPY	5.7	3.7	4.7
ALL STAR2 (CIS-PR-78)	6.3	4.7	5.5	PALMER III	5.7	3.7	4.7
IQ (CIS-PR-75)	6.3	4.7	5.5	PROMISE	5.7	3.7	4.7
KOOS R-71	6.3	4.7	5.5	PROSPORT (AG-P981)	5.7	3.7	4.7
PANTHER	6.3	4.7	5.5	WILMINGTON	6.0	3.3	4.7

TABLE 34. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) AT BLACKSBURG, VA 1/  
 2000-30 DATA

NAME	RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/		
	JUNE	JULY	MEAN
WVPB-R-82	5.7	3.7	4.7
APR 1234	5.3	3.7	4.5
APR 1235	5.7	3.3	4.5
GATOR 3 (CIS-PR-85)	5.3	3.7	4.5
MP103	5.3	3.7	4.5
PASSPORT	5.3	3.7	4.5
PROTYME (ABT-99-4.625)	5.7	3.3	4.5
RADIANT	5.7	3.3	4.5
PHANTOM	5.3	3.3	4.3
PST-2CRR	5.7	3.0	4.3
PST-2LA	4.7	4.0	4.3
RACER	5.7	3.0	4.3
BRIGHTSTAR II	5.0	3.3	4.2
CAS-LP84	5.0	3.3	4.2
DP 17-9391	4.7	3.7	4.2
MP88	5.0	3.3	4.2
PARAGON	5.3	3.0	4.2
PICK PR B-97	5.3	3.0	4.2
PREMIER	4.7	3.7	4.2
RENAISSANCE (APR 1233)	5.0	3.3	4.2
SKYHAWK	5.0	3.3	4.2
DP LP-1	5.0	3.0	4.0
GALLERY (MB 412)	4.7	3.3	4.0
PARADIGM (APR 1236)	4.7	3.3	4.0
PINNACLE II (BAR 9 B2)	4.7	3.3	4.0
SEVILLE II	4.7	3.3	4.0
SPLENDID (MB 411)	4.7	3.3	4.0
DIVINE	4.7	3.0	3.8
MAJESTY	4.3	3.3	3.8
NEXUS	4.7	3.0	3.8
PEARL II (EPD)	5.0	2.7	3.8
SALINAS (PST-2SLX)	4.7	3.0	3.8
HEADSTART	4.3	3.0	3.7
PENNANT II	4.7	2.7	3.7
PST-2M4	4.7	2.7	3.7
LPR 98-143	4.7	2.3	3.5
ARRIVAL (CIS-PR-84)	3.7	3.0	3.3
CABO (CIS-PR-80)	4.0	2.7	3.3
LS 2100 (PST-2SBE)	4.3	2.3	3.3
MANHATTAN 3	3.7	3.0	3.3
CHARGER II	3.7	2.7	3.2
MP107	4.0	2.3	3.2
LSD VALUE	4.1	2.9	3.1
C.V. (%)	25.8	28.8	25.0

- 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.  
 3/ RED THREAD RATED IN 2001 ONLY.



TABLE 35. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
2000-03 DATA 2/

NAME	IA1	IL1	ME1	M03	NS1	UT1	WA4	MEAN
PARAGON	63.3	91.7	95.0	41.7	90.0	50.0	76.7	72.6
ADMIRE (JR-151)	73.3	86.7	81.7	35.0	91.7	50.0	73.3	70.2
PASSPORT	70.0	88.3	80.0	38.3	85.0	60.0	70.0	70.2
JET	60.0	91.7	78.3	40.0	93.3	46.7	80.0	70.0
YATSUGREEN	66.7	85.0	75.0	46.7	96.3	40.0	80.0	70.0
BY-100	63.3	91.7	76.7	41.7	94.7	50.0	70.0	69.7
FIESTA 3	63.3	86.7	93.3	41.7	88.3	36.7	76.7	69.5
SECRETARIAT	56.7	95.0	85.0	38.3	91.7	53.3	66.7	69.5
DIVINE	60.0	88.3	76.7	43.3	91.7	53.3	66.7	68.6
KOOS R-71	60.0	91.7	75.0	36.7	91.7	46.7	75.0	68.1
AFFINITY	66.7	90.0	71.7	38.3	93.3	53.3	63.3	68.1
SUMMERSET (MB 413)	60.0	93.3	81.7	33.3	90.0	46.7	70.0	67.9
PHANTOM	66.7	93.3	68.3	33.3	93.3	50.0	70.0	67.9
EXACTA	70.0	91.7	78.3	35.0	93.0	43.3	61.7	67.6
MAJESTY	73.3	86.7	76.7	35.0	86.7	40.0	73.3	67.4
AFFIRMED	73.3	91.7	83.3	35.0	93.0	30.0	63.3	67.1
DP 17-9391	73.3	83.3	75.0	38.3	91.7	36.7	70.0	66.9
LPR 98-144	53.3	86.7	91.7	36.7	86.7	36.7	76.7	66.9
RACER II (PICK RC2)	60.0	91.7	81.7	36.7	88.3	40.0	68.3	66.7
SR 4420 (SRX 4820)	60.0	80.0	93.3	36.7	85.0	40.0	70.0	66.4
BUCCANEER	66.7	83.3	78.3	40.0	90.0	43.3	61.7	66.2
PICK EX2	53.3	91.7	71.7	36.7	90.0	50.0	70.0	66.2
COURAGE (MB 410)	63.3	95.0	75.0	35.0	90.0	36.7	66.7	66.0
PICK PRNGS	66.7	88.3	81.7	28.3	90.0	43.3	63.3	66.0
RENAISSANCE (APR 1233)	70.0	95.0	80.0	35.0	86.7	36.7	56.7	65.7
LINE DRIVE	70.0	93.3	53.3	35.0	95.0	43.3	70.0	65.7
LINN	66.7	81.7	70.0	46.7	90.0	30.0	73.3	65.5
EDGE	56.7	88.3	88.3	38.3	85.0	30.0	70.0	65.2
CATHEDRAL II	60.0	73.3	86.7	33.3	93.0	36.7	73.3	65.2
ASCEND	63.3	90.0	78.3	41.7	91.7	26.7	63.3	65.0
PENTIUM (NJ-6401)	56.7	85.0	58.3	38.3	88.3	50.0	78.3	65.0
DP 17-9496	50.0	90.0	78.3	35.0	94.7	43.3	63.3	65.0
PR 1-94 (PICK PR 1-94)	53.3	88.3	85.0	33.3	86.7	46.7	60.0	64.8
CALYPSO II	63.3	83.3	71.7	36.7	91.7	40.0	66.7	64.8
PALMER III	66.7	93.3	50.0	38.3	88.0	46.7	70.0	64.7
JR-128	66.7	86.7	73.3	31.7	86.7	36.7	70.0	64.5
NEXUS	63.3	81.7	66.7	35.0	83.3	50.0	71.7	64.5
SR 4220 (SRX 4801)	66.7	85.0	80.0	35.0	85.0	43.3	56.7	64.5
MANHATTAN 3	60.0	88.3	80.0	30.0	90.0	43.3	60.0	64.5
ALL STAR2 (CIS-PR-78)	56.7	85.0	80.0	30.0	81.7	50.0	66.7	64.3
BLAZER IV (PICK MDR)	50.0	88.3	78.3	28.3	88.3	46.7	70.0	64.3
ELFKIN	60.0	78.3	70.0	40.0	88.3	46.7	66.7	64.3
MACH 1 (ROBERTS-627)	66.7	80.0	68.3	35.0	86.7	46.7	66.7	64.3
MONTEREY II (JR-187)	70.0	88.3	71.7	35.0	88.3	36.7	60.0	64.3
WVPB-R-84	63.3	90.0	66.7	36.7	90.0	43.3	60.0	64.3
STELLAR (CIS-PR-72)	53.3	83.3	75.0	28.3	93.3	53.3	63.3	64.3
ICON (MB 414)	60.0	91.7	61.7	33.3	90.0	50.0	61.7	64.0
APR 1231	63.3	91.7	71.7	40.0	86.7	30.0	63.3	63.8
CHURCHILL	56.7	90.0	70.0	38.3	91.7	36.7	63.3	63.8

TABLE 35. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA 2/

NAME	IA1	IL1	ME1	M03	NS1	UT1	WA4	MEAN
SR 4500	46.7	93.3	76.7	40.0	93.3	36.7	60.0	63.8
CHARISMATIC (LTP 98-501)	63.3	80.0	81.7	35.0	83.3	33.3	70.0	63.8
RACER	63.3	83.3	70.0	36.7	93.3	36.7	63.3	63.8
PANTHER	56.7	86.7	63.3	30.0	91.7	50.0	66.7	63.6
PROMISE	56.7	88.3	76.7	33.3	86.7	36.7	66.7	63.6
ABT-99-4.600	53.3	90.0	61.7	30.0	90.0	53.3	66.7	63.6
EXTREME (JR-317)	56.7	75.0	90.0	28.3	86.7	43.3	65.0	63.6
PREMIER	60.0	86.7	61.7	30.0	92.5	43.3	70.0	63.5
ABT-99-4.560	56.7	91.7	75.0	36.7	90.0	36.7	56.7	63.3
DP LP-1	56.7	91.7	65.0	35.0	88.3	40.0	66.7	63.3
SPLENDID (MB 411)	60.0	85.0	58.3	38.3	91.7	40.0	70.0	63.3
BARLENNIUM	66.7	85.0	68.3	35.0	91.7	33.3	63.3	63.3
GALLERY (MB 412)	56.7	93.3	60.0	43.3	86.7	40.0	63.3	63.3
DLF-LDD	56.7	80.0	61.7	38.3	86.3	40.0	80.0	63.3
PROWLER (APR 777)	46.7	90.0	80.0	33.3	95.0	33.3	63.3	63.1
ABT-99-4.115	56.7	88.3	63.3	35.0	94.7	46.7	56.7	63.0
PROSPORT (AG-P981)	53.3	90.0	76.7	33.3	83.3	40.0	63.3	62.9
QUEST II (ABT-99-4.721)	50.0	80.0	80.0	36.7	86.7	43.3	63.3	62.9
ALLSPORT	60.0	86.7	65.0	41.7	90.0	26.7	68.3	62.6
PREMIER II	63.3	91.7	55.0	33.3	90.0	40.0	65.0	62.6
SR 4350 (APR 1237)	56.7	83.3	85.0	30.0	86.7	36.7	60.0	62.6
KOKOMO (CIS-PR-69)	56.7	88.3	70.0	33.3	86.7	40.0	63.3	62.6
PST-2M4	50.0	83.3	75.0	31.7	91.7	43.3	63.3	62.6
PST-2RT	60.0	85.0	53.3	35.0	91.3	53.3	60.0	62.6
ABT-99-4.815	53.3	81.7	78.3	36.7	83.3	46.7	56.7	62.4
PLEASURE XL	53.3	83.3	58.3	35.0	90.0	50.0	66.7	62.4
CATALINA	50.0	85.0	80.0	31.7	83.3	43.3	63.3	62.4
PICK PR B-97	56.7	86.7	75.0	28.3	93.3	36.7	56.7	61.9
WVPB-R-82	60.0	90.0	55.0	31.7	93.0	40.0	63.3	61.9
APR 1235	63.3	85.0	61.7	33.8	85.0	33.3	70.0	61.7
MANHATTAN 4 (PST-2CRL)	53.3	85.0	83.3	31.7	85.0	36.7	56.7	61.7
GATOR 3 (CIS-PR-85)	63.3	81.7	80.0	25.0	81.7	36.7	63.3	61.7
LPR 98-143	56.7	88.3	73.3	33.3	88.3	30.0	61.7	61.7
CITATION FORE (PST-2BR)	66.7	80.0	45.0	33.3	93.0	46.7	66.7	61.6
APR 1234	56.7	81.7	68.3	38.3	88.3	36.7	60.0	61.4
HEADSTART	63.3	88.3	51.7	36.7	88.3	33.3	68.3	61.4
ARRIVAL (CIS-PR-84)	53.3	76.7	81.7	36.7	83.3	40.0	56.7	61.2
GRAND SLAM 2L96 (PST-2L96)	50.0	93.3	73.3	33.3	91.7	30.0	56.7	61.2
CHARGER II	53.3	93.3	48.3	43.3	94.7	33.3	61.7	61.1
APPLAUD (PENNINGTON-11301)	53.3	78.3	61.7	35.0	91.3	40.0	66.7	60.9
APR 776	53.3	86.7	78.3	33.3	88.3	26.7	56.7	60.5
PST-2CRR	50.0	81.7	73.3	26.7	91.7	40.0	60.0	60.5
PST-2JH	60.0	81.7	53.3	36.7	85.0	43.3	63.3	60.5
CABO (CIS-PR-80)	56.7	88.3	65.0	26.7	88.3	40.0	56.7	60.2
DP 17-9069	53.3	83.3	63.3	35.0	86.7	26.7	73.3	60.2
PST-2LA	53.3	86.7	71.7	28.3	85.0	40.0	56.7	60.2
PACESETTER (6011)	60.0	66.7	76.7	21.7	89.7	43.3	63.3	60.2
APR 1232	60.0	80.0	85.0	23.3	85.0	33.3	53.3	60.0
CRUISER (ABT-99-4.709)	53.3	83.3	51.7	36.7	91.7	46.7	56.7	60.0

TABLE 35. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) 2000-03 DATA 2/

NAME	IA1	IL1	ME1	M03	NS1	UT1	WA4	MEAN
EP53	43.3	76.7	86.7	30.0	93.3	40.0	50.0	60.0
MEPY	46.7	80.0	76.7	33.3	88.3	40.0	55.0	60.0
ABT-99-4.464	56.7	80.0	60.0	31.7	85.0	43.3	63.3	60.0
HAWKEYE (SRX 4RHT)	53.3	86.7	68.3	28.3	90.0	30.0	63.3	60.0
ABT-99-4.339	56.7	93.3	56.7	33.3	91.7	26.7	60.0	59.8
AMAZING (B1)	50.0	90.0	76.7	31.7	78.3	36.7	53.3	59.5
INSPIRE (R8000)	60.0	76.7	58.3	35.0	90.0	40.0	56.7	59.5
SKYHAWK	46.7	76.7	73.3	31.7	85.0	40.0	63.3	59.5
WILMINGTON	56.7	76.7	58.3	35.0	90.0	36.7	63.3	59.5
CATALINA II (PST-CATS)	60.0	73.3	56.7	28.3	86.7	40.0	70.0	59.3
PICK PR QH-97	50.0	76.7	70.0	26.7	86.7	36.7	66.7	59.0
SUNKISSED (ABT-99-4.834)	40.0	75.0	90.0	18.3	88.3	36.7	65.0	59.0
BRIGHTSTAR SLT (PST-2A6B)	46.7	90.0	61.7	30.0	91.7	30.0	63.3	59.0
SALINAS (PST-2SLX)	53.3	68.3	66.7	30.0	91.7	40.0	60.0	58.6
MDP	43.3	83.3	70.0	36.7	83.3	40.0	53.3	58.6
BRIGHTSTAR II	50.0	81.7	58.3	31.7	86.7	33.3	66.7	58.3
CAS-LP84	53.3	90.0	46.7	33.3	85.0	36.7	63.3	58.3
RADIANT	50.0	86.7	50.0	33.3	91.7	30.0	66.7	58.3
PIZZAZZ	53.3	85.0	56.7	41.7	81.7	26.7	63.3	58.3
SUPERSTAR (EP57)	53.3	76.7	56.7	26.7	88.3	40.0	66.7	58.3
PEARL II (EPD)	43.3	70.0	88.3	28.3	86.7	33.3	56.7	58.1
IQ (CIS-PR-75)	53.3	68.3	66.7	33.3	81.7	43.3	60.0	58.1
PINNACLE II (BAR 9 B2)	56.7	81.7	51.7	31.7	88.8	33.3	61.7	57.9
MP107	36.7	80.0	75.0	27.5	85.0	43.3	56.7	57.7
MP88	50.0	76.7	60.0	31.7	85.0	40.0	60.0	57.6
PENNANT II	60.0	83.3	43.3	33.3	91.3	30.0	60.0	57.3
SEVILLE II	53.3	81.7	48.3	31.7	90.0	36.7	56.7	56.9
MP103	50.0	86.7	50.0	31.7	88.3	30.0	60.0	56.7
SRX 4120	56.7	83.3	35.0	36.7	90.0	40.0	53.3	56.4
LS 2100 (PST-2SBE)	46.7	71.7	58.3	28.3	86.7	36.7	53.3	54.5
ABT-99-4.965	37.5	76.7	75.0	24.3	83.3	36.7	46.7	54.3
PARADIGM (APR 1236)	56.7	83.3	40.0	28.3	80.0	36.7	53.3	54.0
TERRADYNE (A5C)	43.3	76.7	60.0	31.7	80.0	30.0	56.7	54.0
PROTYME (ABT-99-4.625)	40.0	60.0	63.3	30.0	81.7	30.0	60.0	52.1
DAZZLE (ABT-99-4.724)	33.3	73.3	20.0	23.3	81.7	30.0	46.7	44.0
LTP-ME	10.0	66.7	13.3	4.3	71.7	16.7	46.7	32.8
LSD VALUE	16.3	17.3	34.1	11.0	9.0	18.6	13.3	7.1
C.V. (%)	17.9	12.8	30.7	20.3	6.3	29.1	13.0	18.7

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 36.

PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT COLUMBIA, MO (M01)  
 1999-2003 DATA 2/

NAME	FALL 99	SPR. 00	MEAN	NAME	FALL 99	SPR. 00	MEAN
LINN	56.7	90.0	73.3	PHANTOM	46.7	73.3	60.0
WVPB-R-84	53.3	91.7	72.5	PICK PRNGS	43.3	76.7	60.0
RENAISSANCE (APR 1233)	56.7	86.7	71.7	QUEST II (ABT-99-4.721)	46.7	73.3	60.0
YATSUGREEN	60.0	81.7	70.8	SRX 4120	43.3	76.7	60.0
DLF-LDD	56.7	83.3	70.0	ABT-99-4.560	36.7	81.7	59.2
FIESTA 3	53.3	86.7	70.0	APR 1231	40.0	78.3	59.2
KOOS R-71	53.3	86.7	70.0	CABO (CIS-PR-80)	40.0	78.3	59.2
PENTIUM (NJ-6401)	53.3	85.0	69.2	PIZZAZZ	43.3	75.0	59.2
SECRETARIAT	56.7	80.0	68.3	BLAZER IV (PICK MDR)	46.7	70.0	58.3
ASCEND	56.7	78.3	67.5	CHARISMATIC (LTP 98-501)	40.0	76.7	58.3
PANTHER	53.3	81.7	67.5	DP 17-9391	40.0	76.7	58.3
SEVILLE II	53.3	81.7	67.5	MACH 1 (ROBERTS-627)	40.0	76.7	58.3
BUCCANEER	50.0	83.3	66.7	PST-2M4	33.3	83.3	58.3
INSPIRE (R8000)	50.0	83.3	66.7	DP 17-9069	36.7	78.3	57.5
PREMIER	46.7	86.7	66.7	GALLERY (MB 412)	40.0	75.0	57.5
AMAZING (B1)	46.7	83.3	65.0	GATOR 3 (CIS-PR-85)	40.0	75.0	57.5
DP 17-9496	43.3	86.7	65.0	LINE DRIVE	43.3	71.7	57.5
WVPB-R-82	50.0	80.0	65.0	PST-2RT	40.0	75.0	57.5
ADMIRE (JR-151)	43.3	85.0	64.2	ABT-99-4.115	36.7	76.7	56.7
AFFINITY	53.3	75.0	64.2	APR 1234	40.0	73.3	56.7
APPLAUD (PENNINGTON-11301)	46.7	81.7	64.2	JET	36.7	76.7	56.7
JR-128	50.0	78.3	64.2	PICK PR QH-97	40.0	73.3	56.7
MONTEREY II (JR-187)	46.7	81.7	64.2	PROMISE	43.3	70.0	56.7
PASSPORT	43.3	85.0	64.2	PROSPORT (AG-P981)	36.7	76.7	56.7
CHARGER II	46.7	80.0	63.3	RACER II (PICK RC2)	36.7	76.7	56.7
EDGE	43.3	83.3	63.3	SR 4220 (SRX 4801)	36.7	76.7	56.7
MANHATTAN 3	46.7	80.0	63.3	SR 4350 (APR 1237)	40.0	73.3	56.7
PREMIER II	43.3	83.3	63.3	SR 4420 (SRX 4820)	40.0	73.3	56.7
APR 1235	46.7	78.3	62.5	ALL STAR2 (CIS-PR-78)	36.7	75.0	55.8
BY-100	43.3	81.7	62.5	BARLENNIUM	36.7	75.0	55.8
HEADSTART	43.3	81.7	62.5	BRIGHTSTAR II	40.0	71.7	55.8
MAJESTY	43.3	81.7	62.5	CATALINA	40.0	71.7	55.8
AFFIRMED	46.7	76.7	61.7	EXACTA	43.3	68.3	55.8
DIVINE	46.7	76.7	61.7	PARAGON	43.3	68.3	55.8
MANHATTAN 4 (PST-2CRL)	40.0	83.3	61.7	PICK PR B-97	40.0	71.7	55.8
ABT-99-4.464	46.7	75.0	60.8	PROWLER (APR 777)	33.3	78.3	55.8
ABT-99-4.600	43.3	78.3	60.8	PST-2CRR	36.7	75.0	55.8
BRIGHTSTAR SLT (PST-2A6B)	40.0	81.7	60.8	ARRIVAL (CIS-PR-84)	33.3	76.7	55.0
CALYPSO II	46.7	75.0	60.8	CAS-LP84	36.7	73.3	55.0
ELFKIN	40.0	81.7	60.8	COURAGE (MB 410)	43.3	66.7	55.0
ICON (MB 414)	40.0	81.7	60.8	DP LP-1	36.7	73.3	55.0
LPR 98-143	43.3	78.3	60.8	GRAND SLAM 2L96 (PST-2L96)	36.7	73.3	55.0
LPR 98-144	43.3	78.3	60.8	KOKOMO (CIS-PR-69)	40.0	70.0	55.0
PR 1-94 (PICK PR 1-94)	46.7	75.0	60.8	PACESETTER (6011)	33.3	76.7	55.0
SR 4500	43.3	78.3	60.8	PALMER III	36.7	73.3	55.0
CATHEDRAL II	43.3	76.7	60.0	RADIANT	33.3	76.7	55.0
EXTREME (JR-317)	43.3	76.7	60.0	SPLENDID (MB 411)	40.0	70.0	55.0

TABLE 36. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 (CONT'D) AT COLUMBIA, MO (M01)  
 1999-2003 DATA 2/ 3/

NAME	FALL 99	SPR. 00	MEAN
ALLSPORT	33.3	75.0	54.2
CHURCHILL	40.0	68.3	54.2
HAWKEYE (SRX 4RHT)	30.0	78.3	54.2
NEXUS	40.0	68.3	54.2
PENNANT II	33.3	75.0	54.2
STELLAR (CIS-PR-72)	40.0	68.3	54.2
PICK EX2	33.3	73.3	53.3
PINNACLE II (BAR 9 B2)	33.3	73.3	53.3
PST-2JH	33.3	73.3	53.3
PST-2LA	36.7	70.0	53.3
RACER	36.7	70.0	53.3
ABT-99-4.815	33.3	71.7	52.5
APR 776	33.3	71.7	52.5
CATALINA II (PST-CATS)	33.3	71.7	52.5
CRUISER (ABT-99-4.709)	33.3	71.7	52.5
PEARL II (EPD)	33.3	71.7	52.5
PLEASURE XL	36.7	68.3	52.5
ABT-99-4.339	36.7	66.7	51.7
LS 2100 (PST-2SBE)	33.3	70.0	51.7
MP88	33.3	70.0	51.7
PARADIGM (APR 1236)	33.3	70.0	51.7
SALINAS (PST-2SLX)	36.7	66.7	51.7
CITATION FORE (PST-2BR)	33.3	68.3	50.8
TERRADYNE (A5C)	26.7	75.0	50.8
SUMMERSET (MB 413)	33.3	66.7	50.0
WILMINGTON	30.0	68.3	49.2
ABT-99-4.965	30.0	66.7	48.3
APR 1232	30.0	66.7	48.3
SUNKISSED (ABT-99-4.834)	33.3	63.3	48.3
DAZZLE (ABT-99-4.724)	20.0	75.0	47.5
EP53	26.7	68.3	47.5
SUPERSTAR (EP57)	26.7	68.3	47.5
MDP	30.0	63.3	46.7
MP107	26.7	66.7	46.7
MEPY	23.3	66.7	45.0
MP103	23.3	66.7	45.0
PROTYME (ABT-99-4.625)	23.3	66.7	45.0
IQ (CIS-PR-75)	26.7	60.0	43.3
SKYHAWK	26.7	60.0	43.3
LTP-ME	10.0	58.3	34.2
LSD VALUE	15.5	23.8	13.8
C.V. (%)	21.8	12.1	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 37. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT QUEBEC, QE (CANADA) 2/  
 2000-03 DATA

NAME	MAY	JUNE	JULY	AUGUST	MEAN
ADMIRE (JR-151)	56.7	73.3	73.3	76.7	70.0
AFFINITY	60.0	73.3	70.0	76.7	70.0
WVPB-R-84	53.3	73.3	70.0	76.7	68.3
CATHEDRAL II	56.7	70.0	66.7	73.3	66.7
MANHATTAN 3	53.3	70.0	70.0	73.3	66.7
SECRETARIAT	60.0	70.0	63.3	73.3	66.7
DIVINE	53.3	66.7	70.0	73.3	65.8
LINN	46.7	73.3	70.0	73.3	65.8
PANTHER	56.7	70.0	63.3	70.0	65.0
WVPB-R-82	50.0	70.0	66.7	73.3	65.0
ABT-99-4.815	53.3	70.0	60.0	73.3	64.2
LPR 98-143	53.3	70.0	63.3	70.0	64.2
MAJESTY	53.3	70.0	63.3	70.0	64.2
PENNANT II	50.0	70.0	63.3	73.3	64.2
APPLAUD (PENNINGTON-11301)	46.7	70.0	63.3	73.3	63.3
APR 1235	46.7	66.7	63.3	76.7	63.3
DP 17-9496	46.7	63.3	66.7	76.7	63.3
PENTIUM (NJ-6401)	50.0	66.7	66.7	70.0	63.3
PREMIER	43.3	70.0	66.7	73.3	63.3
WILMINGTON	50.0	66.7	63.3	73.3	63.3
BUCCANEER	46.7	70.0	63.3	70.0	62.5
BY-100	50.0	70.0	60.0	70.0	62.5
DLF-LDD	46.7	70.0	60.0	73.3	62.5
EDGE	40.0	70.0	63.3	76.7	62.5
EP53	46.7	70.0	60.0	73.3	62.5
JR-128	46.7	66.7	63.3	73.3	62.5
LINE DRIVE	50.0	66.7	63.3	70.0	62.5
PALMER III	50.0	66.7	63.3	70.0	62.5
PASSPORT	50.0	66.7	63.3	70.0	62.5
PHANTOM	50.0	66.7	60.0	73.3	62.5
PST-2JH	53.3	63.3	63.3	70.0	62.5
SEVILLE II	50.0	66.7	60.0	73.3	62.5
YATSUGREEN	50.0	66.7	56.7	76.7	62.5
ELFKIN	50.0	66.7	56.7	73.3	61.7
EXACTA	46.7	66.7	63.3	70.0	61.7
MONTEREY II (JR-187)	50.0	66.7	63.3	66.7	61.7
PACESETTER (6011)	43.3	66.7	63.3	73.3	61.7
PICK EX2	53.3	63.3	56.7	73.3	61.7
PREMIER II	46.7	66.7	63.3	70.0	61.7
RACER	43.3	66.7	63.3	73.3	61.7
AFFIRMED	40.0	66.7	63.3	73.3	60.8
BRIGHTSTAR SLT (PST-2A6B)	46.7	63.3	66.7	66.7	60.8
CALYPSO II	46.7	63.3	60.0	73.3	60.8
CHARISMATIC (LTP 98-501)	50.0	66.7	60.0	66.7	60.8
CITATION FORE (PST-2BR)	46.7	63.3	60.0	73.3	60.8
COURAGE (MB 410)	43.3	66.7	60.0	73.3	60.8
DP 17-9069	43.3	66.7	60.0	73.3	60.8

TABLE 37. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 (CONT'D) AT QUEBEC, QE (CANADA) 2/  
 2000-03 DATA

NAME	MAY	JUNE	JULY	AUGUST	MEAN
DP LP-1	43.3	63.3	63.3	73.3	60.8
FIESTA 3	46.7	66.7	63.3	66.7	60.8
KOKOMO (CIS-PR-69)	40.0	66.7	63.3	73.3	60.8
LPR 98-144	43.3	63.3	63.3	73.3	60.8
MACH 1 (ROBERTS-627)	43.3	66.7	60.0	73.3	60.8
PIZZAZZ	43.3	70.0	60.0	70.0	60.8
SR 4500	46.7	63.3	60.0	73.3	60.8
ABT-99-4.339	36.7	66.7	63.3	73.3	60.0
ALL STAR2 (CIS-PR-78)	46.7	63.3	60.0	70.0	60.0
BLAZER IV (PICK MDR)	46.7	63.3	56.7	73.3	60.0
HAWKEYE (SRX 4RHT)	46.7	63.3	60.0	70.0	60.0
HEADSTART	43.3	66.7	56.7	73.3	60.0
INSPIRE (R8000)	46.7	63.3	60.0	70.0	60.0
PARAGON	46.7	63.3	60.0	70.0	60.0
PST-2RT	46.7	63.3	60.0	70.0	60.0
SALINAS (PST-2SLX)	46.7	63.3	60.0	70.0	60.0
SR 4420 (SRX 4820)	43.3	66.7	60.0	70.0	60.0
SRX 4120	46.7	63.3	60.0	70.0	60.0
STELLAR (CIS-PR-72)	43.3	66.7	60.0	70.0	60.0
SUMMERSET (MB 413)	46.7	63.3	60.0	70.0	60.0
ABT-99-4.560	46.7	63.3	56.7	70.0	59.2
ABT-99-4.600	50.0	63.3	53.3	70.0	59.2
APR 776	43.3	66.7	60.0	66.7	59.2
CHARGER II	43.3	66.7	56.7	70.0	59.2
PINNACLE II (BAR 9 B2)	43.3	63.3	60.0	70.0	59.2
PR 1-94 (PICK PR 1-94)	46.7	63.3	56.7	70.0	59.2
PROMISE	43.3	63.3	56.7	73.3	59.2
SUNKISSED (ABT-99-4.834)	46.7	63.3	56.7	70.0	59.2
ABT-99-4.115	46.7	63.3	56.7	66.7	58.3
ABT-99-4.464	40.0	66.7	60.0	66.7	58.3
APR 1231	43.3	63.3	56.7	70.0	58.3
PICK PR B-97	46.7	60.0	56.7	70.0	58.3
PICK PR QH-97	46.7	63.3	56.7	66.7	58.3
SR 4220 (SRX 4801)	40.0	60.0	60.0	73.3	58.3
APR 1232	46.7	60.0	56.7	66.7	57.5
ARRIVAL (CIS-PR-84)	36.7	63.3	60.0	70.0	57.5
CHURCHILL	43.3	56.7	60.0	70.0	57.5
LS 2100 (PST-2SBE)	46.7	60.0	53.3	70.0	57.5
MP103	43.3	60.0	56.7	70.0	57.5
SPLENDID (MB 411)	46.7	60.0	56.7	66.7	57.5
SR 4350 (APR 1237)	43.3	60.0	56.7	70.0	57.5
JET	43.3	60.0	53.3	70.0	56.7
MP88	46.7	56.7	53.3	70.0	56.7
PROSPORT (AG-P981)	40.0	63.3	56.7	66.7	56.7
PST-2M4	43.3	63.3	53.3	66.7	56.7
QUEST II (ABT-99-4.721)	40.0	60.0	56.7	70.0	56.7
RACER II (PICK RC2)	36.7	63.3	60.0	66.7	56.7

TABLE 37. PERCENT ESTABLISHMENT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
(CONT'D) AT QUEBEC, QE (CANADA) 2/  
2000-03 DATA

NAME	MAY	JUNE	JULY	AUGUST	MEAN
BARLENNIUM	36.7	63.3	53.3	70.0	55.8
CAS-LP84	40.0	60.0	56.7	66.7	55.8
GRAND SLAM 2L96 (PST-2L96)	40.0	60.0	56.7	66.7	55.8
KOOS R-71	40.0	63.3	53.3	66.7	55.8
MEPY	36.7	60.0	60.0	66.7	55.8
PLEASURE XL	36.7	63.3	56.7	66.7	55.8
PROWLER (APR 777)	36.7	60.0	56.7	70.0	55.8
RADIANT	36.7	63.3	56.7	66.7	55.8
RENAISSANCE (APR 1233)	40.0	60.0	53.3	70.0	55.8
ALLSPORT	40.0	60.0	53.3	66.7	55.0
ASCEND	46.7	60.0	50.0	63.3	55.0
CATALINA	36.7	56.7	56.7	70.0	55.0
GALLERY (MB 412)	40.0	63.3	53.3	63.3	55.0
GATOR 3 (CIS-PR-85)	40.0	56.7	56.7	66.7	55.0
MANHATTAN 4 (PST-2CRL)	40.0	60.0	53.3	66.7	55.0
PEARL II (EPD)	36.7	56.7	60.0	66.7	55.0
PST-2CRR	40.0	60.0	53.3	66.7	55.0
SUPERSTAR (EP57)	36.7	60.0	56.7	66.7	55.0
DP 17-9391	40.0	60.0	53.3	63.3	54.2
BRIGHTSTAR II	33.3	56.7	56.7	66.7	53.3
CABO (CIS-PR-80)	36.7	56.7	56.7	63.3	53.3
MP107	40.0	60.0	53.3	60.0	53.3
PICK PRNGS	36.7	60.0	53.3	63.3	53.3
PST-2LA	36.7	56.7	53.3	66.7	53.3
CRUISER (ABT-99-4.709)	36.7	53.3	53.3	66.7	52.5
DAZZLE (ABT-99-4.724)	40.0	56.7	50.0	63.3	52.5
NEXUS	40.0	56.7	50.0	63.3	52.5
AMAZING (B1)	30.0	56.7	53.3	66.7	51.7
APR 1234	33.3	56.7	50.0	66.7	51.7
ICON (MB 414)	33.3	56.7	53.3	63.3	51.7
IQ (CIS-PR-75)	33.3	60.0	50.0	63.3	51.7
PARADIGM (APR 1236)	33.3	56.7	50.0	66.7	51.7
SKYHAWK	30.0	56.7	53.3	66.7	51.7
TERRADYNE (A5C)	33.3	56.7	50.0	66.7	51.7
CATALINA II (PST-CATS)	36.7	50.0	50.0	66.7	50.8
EXTREME (JR-317)	40.0	46.7	50.0	66.7	50.8
PROTYME (ABT-99-4.625)	30.0	56.7	50.0	66.7	50.8
ABT-99-4.965	26.7	56.7	53.3	63.3	50.0
LTP-ME	30.0	53.3	53.3	63.3	50.0
MDP	16.7	36.7	40.0	50.0	35.8
LSD VALUE	20.4	15.2	19.4	22.5	14.1
C.V. (%)	20.8	11.1	12.8	9.0	10.7

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 38.

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
 2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 26)				TRAFFIC IN FALL (OCTOBER 4)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC (APR.10)	AFTER TRAFFIC (MAY 26)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC (SEP.13)	AFTER TRAFFIC (OCT.4)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
PICK EX2	98.3	91.7	95.0	95.0	94.7	88.3	98.0	98.0	95.2
CITATION FORE (PST-2BR)	98.0	90.0	94.3	94.3	94.7	88.3	99.0	99.0	94.8
CATHEDRAL II	96.7	88.3	95.3	95.3	96.3	90.0	96.3	96.3	94.4
CATALINA II (PST-CATS)	98.0	86.7	91.0	91.0	94.7	91.0	98.7	98.7	94.1
SR 4350 (APR 1237)	96.7	85.0	93.7	93.7	94.0	88.3	97.7	97.7	93.6
APR 1235	97.0	83.3	90.0	90.0	97.7	93.3	97.7	97.7	93.4
DIVINE	98.3	88.3	95.0	95.0	95.0	83.3	97.0	97.0	93.4
PENTIUM (NJ-6401)	97.7	90.0	94.3	94.3	97.7	81.7	97.3	97.3	93.4
RACER II (PICK RC2)	98.3	85.0	93.3	93.3	96.3	86.7	97.3	97.3	93.3
PST-2M4	95.0	85.0	91.7	91.7	97.7	88.3	98.7	98.7	93.1
AFFIRMED	97.7	90.0	96.0	96.0	89.7	78.3	94.7	94.7	92.7
CHURCHILL	99.0	88.3	93.7	93.7	94.7	80.0	97.3	97.3	92.7
PENNANT II	97.0	86.7	96.0	96.0	97.0	82.7	94.3	94.3	92.7
CHARGER II	97.3	81.7	93.7	93.7	97.7	85.7	98.3	98.3	92.6
PROWLER (APR 777)	97.3	85.0	91.7	91.7	97.7	86.7	96.3	96.3	92.6
SEVILLE II	96.7	80.0	90.0	90.0	94.7	91.7	97.3	97.3	92.6
MAJESTY	97.0	81.7	91.7	91.7	96.0	86.7	98.3	98.3	92.4
PLEASURE XL	98.0	85.0	91.7	91.7	97.7	83.3	96.3	96.3	92.2
ABT-99-4.815	94.0	83.3	91.7	91.7	94.7	86.7	96.0	96.0	92.1
EXACTA	98.3	85.0	91.7	91.7	93.3	83.3	95.0	95.0	91.9
QUEST II (ABT-99-4.721)	95.0	81.7	91.7	91.7	98.3	88.3	95.3	95.3	91.9
GRAND SLAM 2L96 (PST-2L96)	97.0	81.7	92.7	92.7	96.7	81.7	97.3	97.3	91.5
HEADSTART	98.3	90.0	95.3	95.3	89.7	73.3	93.3	93.3	91.5
MANHATTAN 4 (PST-2CRL)	96.3	78.3	88.3	88.3	97.7	91.7	97.3	97.3	91.5
ADMIRE (JR-151)	97.3	85.0	92.0	92.0	93.7	81.7	94.3	94.3	91.3
APR 1231	97.0	86.7	93.7	93.7	93.0	76.7	94.3	94.3	91.3
ASCEND	98.0	91.7	96.0	96.0	95.7	75.0	91.0	91.0	91.3
SALINAS (PST-2SLX)	96.0	76.7	88.7	88.7	96.3	90.0	97.3	97.3	91.3
LPR 98-143	98.0	83.3	91.7	91.7	94.7	80.0	95.7	95.7	91.2
ABT-99-4.560	97.3	88.3	93.3	93.3	86.7	75.0	93.3	93.3	91.0
APR 1232	96.7	78.3	90.0	90.0	88.3	86.0	97.3	97.3	90.8
EXTREME (JR-317)	95.7	85.0	91.0	91.0	96.0	83.3	91.3	91.3	90.8
PREMIER II	96.7	80.0	89.0	89.0	94.3	81.7	97.0	97.0	90.8
SR 4500	98.3	88.3	93.7	93.7	92.3	73.3	92.7	92.7	90.8
LINE DRIVE	97.3	80.0	91.7	91.7	94.7	80.0	95.7	95.7	90.5
BRIGHTSTAR SLT (PST-2A6B)	96.0	76.7	86.7	86.7	93.3	88.3	98.0	98.0	90.3
COURAGE (MB 410)	97.3	81.7	90.0	90.0	96.0	78.3	96.0	96.0	90.3
MP88	95.7	78.3	92.7	92.7	97.3	78.3	98.3	98.3	90.3
BARLENNIUM	95.7	80.0	88.3	88.3	93.3	78.3	97.3	97.3	90.1
KOOS R-71	98.0	85.0	93.3	93.3	86.7	73.3	92.3	92.3	90.1
PINNACLE II (BAR 9 B2)	95.0	75.0	87.3	87.3	95.0	85.0	97.7	97.7	90.1
SECRETARIAT	97.0	81.7	90.0	90.0	91.7	81.7	91.7	91.7	90.1
PST-2RT	96.7	85.0	91.7	91.7	94.3	71.7	96.0	96.0	89.9
PARADIGM (APR 1236)	94.3	80.0	88.3	88.3	92.3	78.3	96.0	96.0	89.8
PST-2LA	97.0	80.0	88.7	88.7	91.3	83.3	91.7	91.7	89.8
ABT-99-4.115	97.3	80.0	88.3	88.3	92.7	80.0	96.0	96.0	89.7
PARAGON	98.0	81.7	89.7	89.7	95.0	75.0	96.0	96.0	89.7

TABLE 38.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 26)				TRAFFIC IN FALL (OCTOBER 4)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC (APR.10)	AFTER TRAFFIC (MAY 26)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC (SEP.13)	AFTER TRAFFIC (OCT.4)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
AFFINITY	98.3	86.7	93.3	93.3	94.7	66.7	95.0	95.0	89.6
MANHATTAN 3	97.0	75.0	89.3	89.3	91.7	81.7	96.3	96.3	89.6
INSPIRE (R8000)	96.7	76.7	90.0	90.0	94.7	76.7	97.3	97.3	89.4
JR-128	95.7	78.3	88.3	88.3	93.0	83.3	92.7	92.7	89.4
SKYHAWK	97.7	81.7	91.7	91.7	93.3	71.7	96.0	96.0	89.4
LS 2100 (PST-2SBE)	93.7	75.0	86.7	86.7	93.3	86.7	97.0	97.0	89.3
SPLENDID (MB 411)	97.3	85.0	91.7	91.7	90.0	73.3	93.0	93.0	89.3
ALL STAR2 (CIS-PR-78)	96.0	81.7	90.0	90.0	95.0	70.0	96.3	96.3	89.2
APR 776	94.7	80.0	91.7	91.7	95.0	76.7	93.3	93.3	88.9
KOKOMO (CIS-PR-69)	96.7	81.7	90.0	90.0	93.3	75.0	91.7	91.7	88.9
IQ (CIS-PR-75)	96.3	80.0	90.0	90.0	93.3	76.7	92.7	92.7	88.8
NEXUS	96.0	81.7	90.0	90.0	81.7	71.7	93.3	93.3	88.8
ABT-99-4.965	96.3	86.7	90.0	90.0	89.7	69.3	91.0	91.0	88.7
PROSPORT (AG-P981)	97.3	85.0	93.3	93.3	81.7	68.3	90.0	90.0	88.4
PST-2CRR	93.3	70.0	83.3	83.3	93.0	86.7	97.3	97.3	88.4
CATALINA	97.0	80.0	90.0	90.0	90.0	73.3	91.7	91.7	88.3
BY-100	98.0	86.7	94.3	94.3	91.3	66.7	88.3	88.3	88.2
PROMISE	95.3	73.3	85.3	85.3	91.7	81.7	94.7	94.7	88.1
PREMIER	95.0	76.7	85.7	85.7	93.3	75.0	94.7	94.7	88.0
PST-2JH	98.0	80.0	91.0	91.0	94.7	68.3	93.3	93.3	88.0
WVPB-R-84	97.7	80.0	89.3	89.3	88.3	71.7	91.0	91.0	87.9
FIESTA 3	97.3	85.0	92.0	92.0	93.3	70.0	83.3	83.3	87.8
PASSPORT	96.3	81.7	89.3	89.3	94.7	65.0	94.7	94.7	87.8
APR 1234	97.7	80.0	90.0	90.0	90.0	66.7	95.0	95.0	87.7
MP107	95.0	71.7	84.3	84.3	95.0	81.7	97.3	97.3	87.7
PR 1-94 (PICK PR 1-94)	96.3	75.0	89.3	89.3	95.0	75.0	91.0	91.0	87.7
RENAISSANCE (APR 1233)	98.0	81.7	90.0	90.0	90.0	68.3	91.7	91.7	87.7
ICON (MB 414)	95.7	83.3	91.7	91.7	88.3	63.3	91.7	91.7	87.6
RADIANT	95.7	80.0	92.0	92.0	92.7	71.7	88.7	88.7	87.6
ABT-99-4.600	96.0	76.7	88.3	88.3	94.3	71.7	93.0	93.0	87.2
ARRIVAL (CIS-PR-84)	97.0	85.0	93.3	93.3	91.3	60.0	90.0	90.0	87.1
DP 17-9391	97.3	86.7	91.7	91.7	90.0	65.0	87.7	87.7	87.1
MEPY	95.7	76.7	86.7	86.7	93.3	73.3	91.3	91.3	87.0
SUNKISSED (ABT-99-4.834)	92.7	61.7	83.3	83.3	93.3	86.7	96.3	96.3	86.7
ABT-99-4.339	96.0	78.3	87.7	87.7	90.0	68.3	89.3	89.3	86.4
AMAZING (B1)	96.7	75.0	86.7	86.7	95.7	70.0	91.0	91.0	86.4
GALLERY (MB 412)	95.3	81.7	91.7	91.7	89.0	65.0	89.3	89.3	86.4
GATOR 3 (CIS-PR-85)	92.3	65.0	81.7	81.7	94.7	84.3	96.3	96.3	86.3
PICK PRNGS	94.3	73.3	84.0	84.0	94.7	78.3	93.0	93.0	86.3
CHARISMATIC (LTP 98-501)	97.3	78.3	86.7	86.7	93.0	73.3	85.0	85.0	86.1
PHANTOM	93.3	73.3	85.0	85.0	91.7	71.7	92.7	92.7	86.1
LPR 98-144	96.7	78.3	90.7	90.7	90.0	68.3	86.3	86.3	86.0
APPLAUD (PENNINGTON-11301)	95.3	76.7	86.0	86.0	96.0	71.7	89.3	89.3	85.9
PALMER III	96.7	83.3	91.7	91.7	86.3	63.3	85.0	85.0	85.9
ALLSPORT	97.7	80.0	90.0	90.0	91.7	61.7	89.3	89.3	85.8
SUMMERSET (MB 413)	94.3	75.0	83.3	83.3	89.0	76.7	92.7	92.7	85.8
CRUISER (ABT-99-4.709)	95.7	78.3	88.3	88.3	90.0	63.3	93.3	93.3	85.7

TABLE 38.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 26)				TRAFFIC IN FALL (OCTOBER 4)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC (APR.10)	AFTER TRAFFIC (MAY 26)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC (SEP.13)	AFTER TRAFFIC (OCT.4)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
PICK PR B-97	93.3	71.7	83.3	83.3	93.3	78.3	91.7	91.7	85.3
PIZZAZZ	97.0	68.3	86.7	86.7	94.7	70.0	92.7	92.7	85.3
DLF-LDD	96.3	76.7	86.7	86.7	96.3	68.3	86.3	86.3	85.2
PACESETTER (6011)	94.7	71.7	86.7	86.7	87.7	70.0	92.0	92.0	85.2
ABT-99-4.464	94.0	73.3	85.0	85.0	91.7	73.3	90.0	90.0	85.1
BRIGHTSTAR II	95.0	61.7	80.0	80.0	93.3	85.0	93.3	93.3	85.1
BLAZER IV (PICK MDR)	95.0	66.7	85.0	85.0	92.3	71.7	93.0	93.0	84.8
CABO (CIS-PR-80)	93.0	68.3	83.3	83.3	93.3	71.7	94.3	94.3	84.7
MDP	93.7	73.3	88.3	88.3	91.7	65.0	90.0	90.0	84.6
MONTEREY II (JR-187)	95.3	78.3	86.7	86.7	90.0	58.3	90.0	90.0	84.5
RACER	95.3	78.3	88.3	88.3	90.0	65.0	83.0	83.0	84.3
STELLAR (CIS-PR-72)	96.7	75.0	86.7	86.7	91.7	66.7	86.7	86.7	84.3
PROTYME (ABT-99-4.625)	93.3	70.0	85.0	85.0	88.3	73.3	89.3	89.3	84.0
CAS-LP84	93.3	73.3	88.3	88.3	88.3	65.0	88.3	88.3	83.9
TERRADYNE (A5C)	92.7	68.3	85.0	85.0	89.7	70.0	89.3	89.3	83.8
SUPERSTAR (EP57)	94.3	70.0	85.7	85.7	91.0	70.0	88.3	88.3	83.6
SRX 4120	98.0	83.3	90.0	90.0	83.3	61.7	78.3	78.3	83.4
DP 17-9069	98.0	86.7	93.3	93.3	83.3	45.0	84.3	84.3	83.2
JET	97.3	78.3	91.7	91.7	88.3	50.0	81.7	81.7	82.8
SR 4220 (SRX 4801)	96.0	63.3	83.3	83.3	93.0	73.3	85.0	85.0	82.4
PICK PR QH-97	93.3	75.0	88.3	88.3	86.7	58.3	81.7	81.7	82.3
DP LP-1	97.3	88.3	94.3	94.3	83.3	43.3	76.7	76.7	82.2
WVPB-R-82	95.7	80.0	89.3	89.3	86.0	45.0	85.0	85.0	82.2
DAZZLE (ABT-99-4.724)	94.0	66.7	83.3	83.3	91.7	63.3	88.3	88.3	82.1
SR 4420 (SRX 4820)	95.7	70.0	83.3	83.3	90.7	66.7	86.7	86.7	82.1
ELFKIN	96.7	76.7	86.7	86.7	86.7	58.3	81.0	81.0	81.9
MP103	95.7	71.7	81.7	81.7	90.0	61.7	85.0	85.0	81.6
EDGE	96.3	78.3	86.7	86.7	90.0	50.0	81.7	81.7	81.5
MACH 1 (ROBERTS-627)	93.3	61.7	78.3	78.3	85.0	75.0	86.0	86.0	81.3
EP53	94.3	73.3	83.3	83.3	85.0	63.3	81.7	81.7	81.2
WILMINGTON	96.3	73.3	88.3	88.3	86.7	50.0	78.3	78.3	80.1
DP 17-9496	97.7	78.3	88.3	88.3	86.7	43.3	80.0	80.0	79.5
HAWKEYE (SRX 4RHT)	95.0	66.7	83.3	83.3	88.3	60.0	81.7	81.7	79.4
PEARL II (EPD)	92.0	65.0	84.0	84.0	86.7	61.7	81.0	81.0	79.4
BUCCANEER	98.0	78.3	88.3	88.3	94.7	46.7	71.7	71.7	79.2
YATSUGREEN	98.3	78.3	85.0	85.0	89.0	35.0	71.7	71.7	76.8
PANTHER	96.0	78.3	88.3	88.3	83.3	35.0	65.0	65.0	75.1
LTP-ME	88.3	51.7	71.7	71.7	86.7	56.7	85.0	85.0	73.5
CALYPSO II	95.0	63.3	85.0	85.0	89.7	48.3	61.7	61.7	71.8
LINN	97.7	75.0	85.0	85.0	33.3	10.0	13.3	13.3	48.9
LSD VALUE	4.2	41.8	21.0	21.0	13.2	26.8	13.5	13.5	8.3
C.V. (%)	2.2	14.6	7.0	7.0	7.7	20.1	9.1	9.1	5.7

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.

3/ PERCENT LIVING GROUND COVER RATED IN 2000.

TABLE 39.

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
 2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 14)				TRAFFIC IN FALL (OCTOBER 31)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC (APR.6)	AFTER TRAFFIC (MAY 14)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC (SEP.15)	AFTER TRAFFIC (OCT.31)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
GRAND SLAM 2L96 (PST-2L96)	99.0	93.3	98.3	98.3	99.0	91.7	98.7	98.7	96.6
PENTIUM (NJ-6401)	99.0	95.0	98.7	98.7	98.3	90.0	96.0	96.0	96.1
PICK EX2	99.0	88.3	98.0	98.0	98.7	93.3	98.3	98.3	95.8
RACER II (PICK RC2)	99.0	91.7	98.3	98.3	97.3	91.0	97.3	97.3	95.7
EXACTA	98.3	90.0	97.3	97.3	98.0	91.7	97.3	97.3	95.5
PINNACLE II (BAR 9 B2)	99.0	93.3	98.7	98.7	95.7	86.7	97.0	97.0	95.4
SR 4350 (APR 1237)	99.0	90.0	98.7	98.7	94.3	91.7	95.7	95.7	95.4
GATOR 3 (CIS-PR-85)	98.3	93.3	98.3	98.3	93.0	88.3	95.7	95.7	95.2
BRIGHTSTAR SLT (PST-2A6B)	99.0	93.3	98.0	98.0	97.0	86.7	96.0	96.0	94.9
CATALINA II (PST-CATS)	99.0	93.3	98.0	98.0	97.0	85.0	97.0	97.0	94.8
PREMIER II	99.0	90.0	97.3	97.3	93.0	88.3	97.0	97.0	94.8
PLEASURE XL	99.0	88.3	98.0	98.0	97.3	88.3	97.0	97.0	94.7
PR 1-94 (PICK PR 1-94)	98.7	85.0	98.0	98.0	96.3	91.7	97.3	97.3	94.7
BARLENNIUM	99.0	91.7	98.7	98.7	97.0	85.0	96.0	96.0	94.6
CHURCHILL	98.7	86.7	98.3	98.3	97.0	88.3	97.3	97.3	94.6
SR 4500	98.7	88.3	98.0	98.0	92.7	88.3	97.0	97.0	94.6
AMAZING (B1)	98.7	90.0	96.3	96.3	98.3	88.3	97.0	97.0	94.4
PARAGON	98.7	85.0	96.3	96.3	97.0	91.7	97.3	97.3	94.4
PARADIGM (APR 1236)	99.0	91.7	98.3	98.3	95.0	81.7	97.0	97.0	94.3
AFFIRMED	98.3	88.3	96.3	96.3	95.7	86.7	97.3	97.3	94.2
BLAZER IV (PICK MDR)	98.0	83.3	96.3	96.3	95.0	91.7	97.3	97.3	93.9
PIZZAZZ	98.3	88.3	96.3	96.3	93.3	86.7	96.0	96.0	93.8
PST-2RT	99.0	85.0	97.0	97.0	96.3	88.3	97.3	97.3	93.8
PST-2M4	98.7	90.0	98.7	98.7	97.7	83.3	95.0	95.0	93.6
CITATION FORE (PST-2BR)	99.0	90.0	98.3	98.3	98.3	83.3	94.3	94.3	93.4
INSPIRE (R8000)	98.3	86.7	93.3	93.3	96.0	90.0	97.3	97.3	93.4
AFFINITY	99.0	88.3	95.3	95.3	92.3	83.3	97.0	97.0	93.3
APR 1235	99.0	85.0	97.0	97.0	96.0	88.3	95.7	95.7	93.2
LPR 98-144	98.3	83.3	94.7	94.7	96.3	90.0	97.3	97.3	93.2
MANHATTAN 4 (PST-2CRL)	98.7	90.0	98.3	98.3	97.3	81.7	94.3	94.3	93.2
NEXUS	99.0	91.7	97.3	97.3	90.7	80.0	95.3	95.3	93.2
SPLendid (MB 411)	97.3	85.0	97.0	97.0	94.7	88.3	95.7	95.7	93.2
LS 2100 (PST-2SBE)	98.3	86.7	97.0	97.0	97.3	85.0	94.3	94.3	93.1
PHANTOM	99.0	86.7	95.0	95.0	91.7	88.3	95.0	95.0	93.1
ALL STAR2 (CIS-PR-78)	99.0	85.0	96.0	96.0	90.0	86.7	96.3	96.3	93.0
ABT-99-4.115	99.0	88.3	98.0	98.0	92.7	81.7	95.0	95.0	92.9
ADMIRE (JR-151)	99.0	91.7	97.0	97.0	92.0	80.0	93.3	93.3	92.8
APR 1232	99.0	83.3	96.0	96.0	96.3	86.7	96.0	96.0	92.8
SALINAS (PST-2SLX)	98.7	86.7	96.3	96.3	97.3	81.7	97.0	97.0	92.8
ABT-99-4.815	98.3	88.3	95.3	95.3	94.3	83.3	94.3	94.3	92.7
PICK PRNGS	98.7	88.3	96.0	96.0	97.7	83.3	95.0	95.0	92.7
ABT-99-4.965	98.3	86.7	97.0	97.0	96.0	83.3	94.3	94.3	92.6
CATHEDRAL II	98.7	85.0	97.0	97.0	96.3	81.7	97.0	97.0	92.6
COURAGE (MB 410)	98.7	91.7	97.0	97.0	98.3	80.0	92.7	92.7	92.6
MAJESTY	99.0	86.7	94.7	94.7	94.7	83.3	96.7	96.7	92.6
WVPB-R-84	99.0	86.7	94.3	94.3	96.3	85.0	96.0	96.0	92.6
ABT-99-4.600	97.3	86.7	95.3	95.3	98.3	86.7	94.7	94.7	92.5
APR 776	98.7	86.7	96.0	96.0	97.0	81.7	94.3	94.3	92.4

TABLE 39.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 14)				TRAFFIC IN FALL (OCTOBER 31)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC (APR.6)	AFTER TRAFFIC (MAY 14)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC (SEP.15)	AFTER TRAFFIC (OCT.31)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
SECRETARIAT	99.0	85.0	94.3	94.3	99.0	86.7	95.0	95.0	92.4
PASSPORT	98.0	81.7	97.0	97.0	95.7	86.7	94.0	94.0	92.2
PICK PR B-97	97.3	83.3	94.3	94.3	93.3	85.0	96.0	96.0	92.2
PST-2JH	98.7	86.7	95.3	95.3	97.7	85.0	93.0	93.0	92.2
QUEST II (ABT-99-4.721)	98.3	86.7	95.7	95.7	98.0	81.7	94.3	94.3	92.2
JR-128	98.3	88.3	95.3	95.3	96.0	81.7	93.3	93.3	92.1
RACER	99.0	88.3	91.0	91.0	96.3	86.7	96.0	96.0	92.1
EXTREME (JR-317)	98.3	83.3	94.3	94.3	93.3	83.3	96.0	96.0	92.0
CABO (CIS-PR-80)	97.7	85.0	94.3	94.3	93.3	85.0	94.7	94.7	91.9
MANHATTAN 3	98.7	86.7	97.0	97.0	93.3	80.0	93.3	93.3	91.9
TERRADYNE (ASC)	98.0	80.0	94.3	94.3	95.3	88.3	95.0	95.0	91.9
CHARISMATIC (LTP 98-501)	97.7	85.0	94.0	94.0	94.3	81.7	96.0	96.0	91.7
FIESTA 3	97.7	80.0	93.0	93.0	97.3	88.3	95.3	95.3	91.7
KOOS R-71	98.7	86.7	96.3	96.3	95.3	81.7	92.0	92.0	91.7
DIVINE	99.0	81.7	93.3	93.3	96.0	85.0	95.7	95.7	91.6
LTP-ME	97.3	80.0	91.7	91.7	94.7	86.7	97.0	97.0	91.6
PREMIER	98.7	86.7	97.0	97.0	91.0	78.3	93.3	93.3	91.6
CATALINA	98.7	85.0	96.0	96.0	94.3	80.0	94.3	94.3	91.5
ABT-99-4.560	98.3	85.0	97.0	97.0	95.7	78.3	93.3	93.3	91.4
CRUISER (ABT-99-4.709)	97.7	85.0	97.0	97.0	92.3	80.0	93.3	93.3	91.4
LINE DRIVE	98.3	83.3	97.0	97.0	93.3	80.0	93.3	93.3	91.3
IQ (CIS-PR-75)	97.3	81.7	93.3	93.3	94.0	85.0	94.3	94.3	91.2
LPR 98-143	98.0	78.3	94.3	94.3	91.0	83.3	96.0	96.0	91.1
SEVILLE II	99.0	83.3	96.0	96.0	96.0	83.3	91.7	91.7	91.1
MONTEREY II (JR-187)	98.0	81.7	97.0	97.0	93.3	81.7	93.3	93.3	91.0
MDP	97.7	83.3	94.3	94.3	92.7	81.7	93.3	93.3	90.9
PROSPORT (AG-P981)	98.0	83.3	97.0	97.0	90.0	81.7	91.7	91.7	90.9
ABT-99-4.339	99.0	85.0	96.0	96.0	93.0	76.7	93.3	93.3	90.7
PROTYME (ABT-99-4.625)	95.3	81.7	94.7	94.7	96.0	81.7	93.3	93.3	90.7
PST-2LA	99.0	80.0	94.7	94.7	94.3	81.7	93.3	93.3	90.4
DAZZLE (ABT-99-4.724)	98.0	83.3	96.3	96.3	92.3	80.0	90.0	90.0	90.3
HEADSTART	99.0	86.7	97.0	97.0	92.3	76.7	90.0	90.0	90.2
SUMMERSET (MB 413)	97.7	81.7	93.3	93.3	96.0	81.7	93.0	93.0	90.2
APPLAUD (PENNINGTON-11301)	97.0	75.0	90.0	90.0	96.3	86.7	96.3	96.3	90.1
RADIANT	98.3	81.7	96.3	96.3	91.7	80.0	90.7	90.7	90.0
SKYHAWK	99.0	85.0	97.0	97.0	91.3	76.7	90.0	90.0	90.0
MP107	98.7	83.3	97.0	97.0	93.0	76.7	91.7	91.7	89.9
STELLAR (CIS-PR-72)	97.0	81.7	94.3	94.3	94.3	78.3	92.7	92.7	89.9
ABT-99-4.464	97.7	85.0	94.3	94.3	97.3	80.0	90.0	90.0	89.8
BY-100	98.0	81.7	95.0	95.0	91.0	76.7	92.7	92.7	89.8
EDGE	97.7	81.7	94.3	94.3	88.3	78.3	92.7	92.7	89.7
CHARGER II	99.0	80.0	93.3	93.3	94.7	78.3	92.7	92.7	89.5
GALLERY (MB 412)	94.3	80.0	94.3	94.3	95.0	81.7	91.7	91.7	89.5
SR 4420 (SRX 4820)	95.0	81.7	94.3	94.3	97.3	78.3	91.7	91.7	89.4
WVPB-R-82	98.7	86.7	96.0	96.0	88.3	75.0	88.3	88.3	89.4
KOKOMO (CIS-PR-69)	98.7	81.7	94.3	94.3	94.0	78.3	91.7	91.7	89.3
PICK PR QH-97	97.0	76.7	93.3	93.3	89.7	81.7	93.3	93.3	89.3
JET	98.7	80.0	94.3	94.3	91.0	80.0	90.0	90.0	89.2

TABLE 39.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 14)				TRAFFIC IN FALL (OCTOBER 31)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC (APR.6)	AFTER TRAFFIC (MAY 14)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC (SEP.15)	AFTER TRAFFIC (OCT.31)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
PENNANT II	98.0	80.0	93.3	93.3	91.0	81.7	91.0	91.0	89.2
APR 1231	98.7	83.3	95.3	95.3	95.0	75.0	90.0	90.0	89.1
BRIGHTSTAR II	98.3	83.3	94.3	94.3	97.0	71.7	92.7	92.7	89.1
PST-2CRR	97.7	85.0	96.0	96.0	83.3	71.7	90.0	90.0	89.1
ELFKIN	97.7	83.3	92.7	92.7	88.3	78.3	90.0	90.0	89.0
ASCEND	98.0	83.3	92.7	92.7	90.0	81.7	88.7	88.7	88.8
PACESETTER (6011)	98.3	78.3	96.0	96.0	92.7	78.3	90.0	90.0	88.7
WILMINGTON	97.0	76.7	94.3	94.3	89.3	80.0	91.3	91.3	88.6
SR 4220 (SRX 4801)	98.0	81.7	93.7	93.7	94.7	76.7	91.0	91.0	88.5
MEPY	97.7	85.0	97.0	97.0	89.3	73.3	86.7	86.7	88.4
PALMER III	96.7	81.7	94.7	94.7	85.0	75.0	91.0	91.0	88.4
SUPERSTAR (EP57)	98.0	83.3	95.0	95.0	90.0	73.3	90.0	90.0	88.4
ARRIVAL (CIS-PR-84)	97.0	83.3	94.3	94.3	91.0	76.7	88.7	88.7	88.2
ALLSPORT	97.7	83.3	93.3	93.3	91.0	75.0	88.3	88.3	88.1
ICON (MB 414)	98.7	86.7	95.7	95.7	89.7	75.0	85.7	85.7	88.0
APR 1234	99.0	76.7	93.3	93.3	94.7	76.7	91.0	91.0	87.8
SUNKISSED (ABT-99-4.834)	98.0	81.7	91.7	91.7	93.3	76.7	90.0	90.0	87.8
MACH 1 (ROBERTS-627)	97.0	80.0	88.0	88.0	97.0	78.3	91.0	91.0	87.6
MP88	98.7	88.3	96.3	96.3	90.0	68.3	85.0	85.0	87.5
PROWLER (APR 777)	98.7	85.0	97.0	97.0	95.3	70.0	85.0	85.0	87.5
DLF-LDD	98.0	85.0	94.3	94.3	96.0	75.0	84.7	84.7	87.4
PEARL II (EPD)	95.7	75.0	89.3	89.3	93.3	78.3	94.3	94.3	87.3
DP 17-9391	96.7	81.7	93.3	93.3	90.7	71.7	86.7	86.7	87.0
BUCCANEER	98.3	73.3	93.3	93.3	86.7	75.0	90.0	90.0	86.8
SRX 4120	95.7	70.0	89.3	89.3	94.7	81.7	90.0	90.0	86.1
PANTHER	97.7	76.7	90.0	90.0	88.3	76.7	86.7	86.7	85.7
MP103	96.7	75.0	92.7	92.7	90.7	73.3	85.0	85.0	85.6
RENAISSANCE (APR 1233)	98.7	73.3	90.0	90.0	88.3	73.3	91.0	91.0	85.6
HAWKEYE (SRX 4RHT)	93.3	71.7	88.3	88.3	90.0	75.0	91.0	91.0	85.2
DP 17-9069	95.3	71.7	92.7	92.7	89.7	71.7	88.3	88.3	84.9
EP53	97.0	76.7	92.7	92.7	88.3	66.7	86.7	86.7	84.8
PROMISE	97.7	80.0	89.0	89.0	94.3	75.0	84.7	84.7	84.8
CAS-LP84	98.0	86.7	97.0	97.0	79.3	63.3	78.3	78.3	84.6
DP LP-1	95.3	70.0	91.7	91.7	90.0	68.3	88.3	88.3	84.0
YATSUGREEN	97.3	60.0	81.7	81.7	91.0	75.0	93.3	93.3	81.7
DP 17-9496	95.3	63.3	90.0	90.0	93.3	60.0	78.3	78.3	77.6
CALYPSO II	86.0	60.0	73.3	73.3	88.3	75.0	85.0	85.0	77.2
LINN	8.3	1.3	8.3	8.3	0.0	6.7	11.7	11.7	8.6
LSD VALUE	3.2	12.9	7.1	7.1	9.7	17.8	10.5	10.5	7.7
C.V. (%)	2.3	9.6	5.0	5.0	6.7	12.1	7.1	7.1	5.6

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.

3/ PERCENT LIVING GROUND COVER RATED 2001.

TABLE 40.

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
 2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 28)				TRAFFIC IN FALL (OCTOBER 23)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC	AFTER TRAFFIC (MAY 28)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC	AFTER TRAFFIC (OCT.23)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
PENTIUM (NJ-6401)	98.0	94.7	97.3	97.3	98.7	73.3	86.7	86.7	91.1
CITATION FORE (PST-2BR)	98.0	95.0	97.7	97.7	97.3	71.7	81.7	81.7	90.2
PST-2M4	98.3	94.3	95.7	95.7	98.3	71.7	85.0	85.0	90.2
RACER II (PICK RC2)	98.3	95.0	96.3	96.3	98.0	70.0	85.0	85.0	90.2
AMAZING (B1)	98.7	90.0	94.7	94.7	98.0	73.3	85.0	85.0	89.4
PLEASURE XL	98.3	96.3	96.7	96.7	97.7	73.3	76.7	76.7	89.4
BLAZER IV (PICK MDR)	98.7	96.3	96.7	96.7	96.3	66.7	80.0	80.0	89.2
GRAND SLAM 2L96 (PST-2L96)	98.7	96.0	96.0	96.0	99.0	65.0	83.3	83.3	89.2
CHURCHILL	98.7	96.3	98.0	98.0	98.0	65.0	80.0	80.0	88.9
ABT-99-4.115	98.3	94.7	97.0	97.0	97.0	65.0	81.7	81.7	88.8
AFFIRMED	98.7	93.0	96.3	96.3	98.3	68.3	83.3	83.3	88.8
APPLAUD (PENNINGTON-11301)	98.7	96.3	98.0	98.0	98.0	65.0	78.3	78.3	88.8
DIVINE	98.7	94.7	95.7	95.7	98.3	66.7	80.0	80.0	88.6
CHARISMATIC (LTP 98-501)	97.7	92.7	96.0	96.0	94.7	66.7	81.7	81.7	88.4
CATALINA II (PST-CATS)	98.7	96.3	96.3	96.3	98.0	68.3	75.0	75.0	88.1
EXACTA	99.0	96.3	97.0	97.0	97.3	65.0	78.3	78.3	87.9
APR 1232	99.0	96.3	98.0	98.0	98.3	63.3	78.3	78.3	87.8
LPR 98-143	97.0	88.3	92.3	92.3	92.7	76.7	78.3	78.3	87.8
COURAGE (MB 410)	98.3	95.0	96.3	96.3	97.3	61.7	78.3	78.3	87.6
PR 1-94 (PICK PR 1-94)	98.7	93.3	95.7	95.7	95.0	68.3	78.3	78.3	87.6
ABT-99-4.560	97.3	94.7	97.0	97.0	96.7	65.0	73.3	73.3	87.3
GATOR 3 (CIS-PR-85)	97.3	93.0	97.0	97.0	96.7	68.3	75.0	75.0	87.1
MACH 1 (ROBERTS-627)	96.0	89.7	93.0	93.0	96.7	71.7	78.3	78.3	87.1
SR 4350 (APR 1237)	99.0	96.3	97.3	97.3	97.3	68.3	71.7	71.7	87.1
AFFINITY	98.7	93.3	97.0	97.0	95.7	63.3	76.7	76.7	87.0
BARLENNIUM	98.3	91.7	93.3	93.3	98.0	66.7	78.3	78.3	87.0
PARADIGM (APR 1236)	97.7	93.3	94.3	94.3	95.7	63.3	78.3	78.3	87.0
SEVILLE II	98.3	96.3	96.0	96.0	97.3	63.3	75.0	75.0	87.0
KOKOMO (CIS-PR-69)	98.3	94.7	94.7	94.7	95.7	65.0	76.7	76.7	86.9
SR 4500	98.7	95.0	97.3	97.3	98.3	60.0	76.7	76.7	86.9
MONTEREY II (JR-187)	97.3	94.7	96.3	96.3	98.3	63.3	75.0	75.0	86.8
PINNACLE II (BAR 9 B2)	97.7	90.0	94.0	94.0	97.0	68.3	76.7	76.7	86.8
PST-2JH	98.3	93.3	95.0	95.0	97.0	61.7	78.3	78.3	86.8
CATHEDRAL II	99.0	96.0	97.3	97.3	98.0	56.7	76.7	76.7	86.7
SPLendid (MB 411)	98.7	95.0	97.0	97.0	95.7	66.7	68.3	68.3	86.7
SUPERSTAR (EP57)	95.3	94.7	96.3	96.3	97.0	60.0	76.7	76.7	86.7
APR 1235	98.7	90.0	96.3	96.3	97.3	70.0	75.0	75.0	86.6
NEXUS	97.3	93.3	95.0	95.0	94.7	66.7	78.3	78.3	86.6
PICK PR B-97	98.3	96.3	96.3	96.3	96.3	61.7	75.0	75.0	86.6
SR 4220 (SRX 4801)	98.3	93.0	95.3	95.3	98.3	63.3	78.3	78.3	86.6
BRIGHTSTAR SLT (PST-2A6B)	98.7	91.3	94.7	94.7	97.3	60.0	78.3	78.3	86.2
PICK PR QH-97	98.7	93.3	95.0	95.0	96.3	61.7	75.0	75.0	86.2
ALL STAR2 (CIS-PR-78)	98.0	97.3	97.0	97.0	97.7	60.0	75.0	75.0	86.1
LS 2100 (PST-2SBE)	99.0	93.3	95.7	95.7	97.7	58.3	76.7	76.7	86.1
LTP-ME	98.7	93.0	96.3	96.3	96.3	61.7	73.3	73.3	86.1
SUMMERSET (MB 413)	98.3	93.0	97.0	97.0	97.3	58.3	75.0	75.0	86.1
ABT-99-4.965	98.3	93.3	94.3	94.3	96.3	65.0	71.7	71.7	85.9
ADMIRE (JR-151)	98.7	91.7	95.7	95.7	98.7	61.7	75.0	75.0	85.9

TABLE 40.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 28)				TRAFFIC IN FALL (OCTOBER 23)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC	AFTER TRAFFIC (MAY 28)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC	AFTER TRAFFIC (OCT.23)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
MANHATTAN 4 (PST-2CRL)	98.0	88.3	92.3	92.3	98.7	66.7	78.3	78.3	85.8
MP88	94.3	91.7	94.0	94.0	97.0	61.7	76.7	76.7	85.8
PARAGON	97.3	93.0	95.0	95.0	97.0	61.7	75.0	75.0	85.7
SALINAS (PST-2SLX)	98.7	95.0	95.7	95.7	98.0	56.7	75.0	75.0	85.7
SRX 4120	97.0	91.7	96.0	96.0	97.3	60.0	75.0	75.0	85.7
ABT-99-4.600	98.3	93.3	94.0	94.0	97.7	60.0	75.0	75.0	85.6
PICK PRNGS	98.7	90.0	94.0	94.0	98.0	63.3	75.0	75.0	85.6
PST-2RT	98.3	91.3	94.7	94.7	97.7	61.7	73.3	73.3	85.4
ICON (MB 414)	98.3	86.7	93.0	93.0	96.7	63.3	76.7	76.7	85.3
MEPY	97.3	93.3	93.3	93.3	94.7	58.3	73.3	73.3	85.2
PREMIER II	97.7	93.0	94.7	94.7	97.3	58.3	73.3	73.3	85.2
MANHATTAN 3	98.7	95.0	95.7	95.7	97.3	60.0	73.3	73.3	85.1
RADIANT	97.3	94.7	94.7	94.7	97.0	60.0	71.7	71.7	85.1
ABT-99-4.339	99.0	94.3	95.7	95.7	98.3	56.7	70.0	70.0	84.9
DLF-LDD	98.3	83.3	90.0	90.0	96.7	66.7	80.0	80.0	84.9
MAJESTY	98.7	93.3	95.0	95.0	98.7	60.0	71.7	71.7	84.9
PROWLER (APR 777)	98.3	95.0	97.0	97.0	98.0	56.7	73.3	73.3	84.9
TERRADYNE (A5C)	98.0	93.0	97.3	97.3	96.3	55.0	73.3	73.3	84.9
ARRIVAL (CIS-PR-84)	96.0	88.3	90.7	90.7	96.3	66.7	76.7	76.7	84.8
PACESETTER (6011)	97.3	94.7	96.7	96.7	97.7	53.3	76.7	76.7	84.8
PROTYME (ABT-99-4.625)	98.3	91.7	96.3	96.3	96.3	56.7	75.0	75.0	84.8
EXTREME (JR-317)	98.3	90.0	94.3	94.3	97.7	60.0	75.0	75.0	84.7
PEARL II (EPD)	98.3	90.0	93.3	93.3	96.3	58.3	76.7	76.7	84.7
ABT-99-4.815	98.3	96.3	97.0	97.0	98.0	55.0	71.7	71.7	84.6
EDGE	98.7	93.3	96.7	96.7	96.3	56.7	71.7	71.7	84.6
SUNKISSED (ABT-99-4.834)	96.3	93.3	94.0	94.0	97.7	58.3	71.7	71.7	84.6
INSPIRE (R8000)	97.3	94.7	96.3	96.3	97.0	61.7	70.0	70.0	84.4
MP107	97.0	96.3	96.7	96.7	94.7	50.0	71.7	71.7	84.4
ABT-99-4.464	98.3	91.7	95.7	95.7	98.0	53.3	73.3	73.3	84.3
JR-128	97.7	90.0	94.7	94.7	98.3	56.7	75.0	75.0	84.3
PST-2CRR	98.7	91.7	95.7	95.7	94.7	60.0	70.0	70.0	84.2
SECRETARIAT	98.7	88.3	90.0	90.0	98.3	66.7	71.7	71.7	84.2
PREMIER	97.3	93.3	95.0	95.0	97.3	55.0	71.7	71.7	84.1
QUEST II (ABT-99-4.721)	98.3	93.3	94.3	94.3	97.7	58.3	75.0	75.0	84.1
STELLAR (CIS-PR-72)	97.0	90.0	94.3	94.3	96.0	58.3	73.3	73.3	84.0
ASCEND	98.3	89.7	94.7	94.7	94.3	60.0	68.3	68.3	83.9
WVPB-R-82	94.7	91.3	92.7	92.7	95.7	60.0	71.7	71.7	83.9
IQ (CIS-PR-75)	98.0	94.7	97.3	97.3	97.3	53.3	70.0	70.0	83.8
MDP	98.3	91.7	94.7	94.7	95.7	56.7	66.7	66.7	83.7
PENNANT II	97.3	90.0	95.0	95.0	97.7	53.3	73.3	73.3	83.6
APR 776	98.3	96.3	98.3	98.3	97.7	51.7	68.3	68.3	83.4
GALLERY (MB 412)	98.0	84.7	89.7	89.7	97.0	60.0	73.3	73.3	83.4
PIZZAZZ	98.3	91.3	94.3	94.3	95.7	60.0	68.3	68.3	83.4
SKYHAWK	95.3	93.0	94.7	94.7	96.7	50.0	71.7	71.7	83.4
APR 1231	97.0	86.3	92.0	92.0	97.3	60.0	73.3	73.3	83.3
SR 4420 (SRX 4820)	98.3	88.0	93.0	93.0	98.0	60.0	73.3	73.3	83.3
DAZZLE (ABT-99-4.724)	97.7	94.7	95.3	95.3	97.0	51.7	71.7	71.7	83.2
DP LP-1	96.0	95.0	95.7	95.7	96.7	53.3	66.7	66.7	83.2



TABLE 40.  
(CONT'D)

PERCENT LIVING GROUND COVER RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
AT COLUMBIA (TRAFFIC STUDY), MO 2/ 3/  
2000-03 DATA

NAME	TRAFFIC IN SPRING (MAY 28)				TRAFFIC IN FALL (OCTOBER 23)				MEAN (AFTER TRAFFIC)
	BEFORE TRAFFIC	AFTER TRAFFIC (MAY 28)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	BEFORE TRAFFIC	AFTER TRAFFIC (OCT.23)	2 WEEKS AFTER TRAFFIC	4 WEEKS AFTER TRAFFIC	
HAWKEYE (SRX 4RHT)	96.3	93.3	95.0	95.0	96.7	50.0	71.7	71.7	83.2
KOOS R-71	95.7	90.0	94.3	94.3	96.3	58.3	70.0	70.0	83.2
PST-2LA	98.3	90.0	93.3	93.3	96.3	55.0	71.7	71.7	83.0
CHARGER II	97.3	91.7	93.3	93.3	96.0	53.3	71.7	71.7	82.9
RACER	97.7	85.0	90.0	90.0	97.0	61.7	73.3	73.3	82.8
JET	98.3	93.0	92.7	92.7	92.7	55.0	70.0	70.0	82.6
PANTHER	97.0	88.3	91.7	91.7	96.7	56.7	70.0	70.0	82.6
RENAISSANCE (APR 1233)	97.0	86.7	91.0	91.0	91.3	56.7	71.7	71.7	82.6
PICK EX2	98.7	86.7	92.0	92.0	98.7	51.7	73.3	73.3	82.3
APR 1234	98.3	93.3	94.0	94.0	98.0	51.7	68.3	68.3	82.2
ELFKIN	98.3	91.7	94.0	94.0	94.3	55.0	68.3	68.3	82.1
HEADSTART	97.7	85.0	90.0	90.0	97.0	61.7	68.3	68.3	82.1
PALMER II	97.3	90.0	91.7	91.7	95.0	50.0	75.0	75.0	82.1
CRUISER (ABT-99-4.709)	98.3	93.0	94.3	94.3	95.7	53.3	65.0	65.0	82.0
LINE DRIVE	98.3	93.3	94.7	94.7	97.0	53.3	65.0	65.0	81.9
PHANTOM	98.7	88.3	94.0	94.0	97.0	56.7	68.3	68.3	81.9
PROSPORT (AG-P981)	98.3	96.3	97.3	97.3	95.0	46.7	70.0	70.0	81.8
MP103	94.7	91.7	93.3	93.3	92.3	50.0	65.0	65.0	81.7
DP 17-9069	97.0	96.3	97.0	97.0	97.0	48.3	63.3	63.3	81.6
LPR 98-144	98.7	73.3	88.3	88.3	95.3	61.7	76.7	76.7	81.6
BRIGHTSTAR II	98.3	91.7	94.7	94.7	97.3	50.0	65.0	65.0	81.4
PASSPORT	97.3	80.0	90.7	90.7	96.3	56.7	71.7	71.7	81.4
YATSUGREEN	98.3	85.0	92.3	92.3	94.3	58.3	70.0	70.0	81.1
ALLSPORT	98.0	90.0	94.0	94.0	95.0	46.7	68.3	68.3	80.8
EP53	94.3	88.3	91.7	91.7	94.7	46.7	70.0	70.0	80.7
WVPB-R-84	97.3	83.3	90.0	90.0	97.7	53.3	71.7	71.7	80.7
BY-100	98.0	89.7	91.3	91.3	96.3	48.3	66.7	66.7	80.6
CATALINA	97.0	93.3	93.3	93.3	96.7	48.3	66.7	66.7	80.6
FIESTA 3	98.7	80.0	89.0	89.0	97.3	56.7	75.0	75.0	80.5
WILMINGTON	98.3	88.3	94.0	94.0	97.3	50.0	68.3	68.3	80.5
CABO (CIS-PR-80)	97.7	81.7	90.7	90.7	95.0	56.7	70.0	70.0	80.4
DP 17-9391	97.3	81.7	89.0	89.0	97.7	53.3	70.0	70.0	80.3
BUCCANEER	97.0	90.0	92.3	92.3	91.0	48.3	65.0	65.0	79.7
DP 17-9496	96.3	88.3	91.7	91.7	94.7	48.3	61.7	61.7	78.9
PROMISE	91.0	73.3	81.7	81.7	96.7	58.3	71.7	71.7	77.7
CAS-LP84	95.7	84.7	87.7	87.7	93.3	48.3	61.7	61.7	76.3
CALYPSO II	96.0	76.7	85.0	85.0	92.0	50.0	63.3	63.3	75.2
LINN	5.0	11.7	8.3	8.3	8.3	6.7	8.3	8.3	9.2
LSD VALUE	2.8	12.5	7.3	7.3	3.9	21.7	17.6	17.6	7.9
C.V. (%)	2.0	8.2	5.2	5.2	2.8	17.3	12.2	12.2	6.1

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.

3/ PERCENT LIVING GROUND COVER RATED IN 2002.

TABLE 41.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
AT PUYALLUP (SPORTS WEAR STUDY), WA 1/  
2000-03 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	AFTER TRAFFIC IN MAY			AFTER TRAFFIC IN JULY			AFTER TRAFFIC IN SEPTEMBER			AFTER TRAFFIC IN NOVEMBER	
	QUALITY 6 WEEKS	QUALITY 8 WEEKS	% COVER 8 WEEKS	QUALITY 2 WEEKS	QUALITY 6 WEEKS	DENSITY 6 WEEKS	QUALITY 2 WEEKS	DENSITY 2 WEEKS	DENSITY 8 WEEKS	DENSITY 2 WEEKS	DENSITY 4 WEEKS
ARRIVAL (CIS-PR-84)	4.7	4.0	53.3	6.0	5.0	8.7	4.7	6.7	5.3	6.0	6.3
GATOR 3 (CIS-PR-85)	5.0	5.0	58.3	7.3	6.3	9.0	5.0	7.0	4.7	5.7	6.3
SUNKISSED (ABT-99-4.834)	4.3	4.0	56.7	5.0	5.0	8.0	4.7	6.7	5.3	5.3	6.3
PASSPORT	4.0	4.0	46.7	5.7	5.7	8.7	5.0	6.7	4.7	4.3	6.0
PR 1-94 (PICK PR 1-94)	4.3	4.0	50.0	5.3	4.3	8.0	5.0	6.7	5.3	5.0	6.0
PST-2JH	4.7	4.3	56.7	5.7	5.0	8.3	4.3	6.7	5.0	5.0	6.0
SR 4420 (SRX 4820)	4.7	3.7	48.3	5.3	6.0	9.0	5.0	7.0	5.3	5.0	6.0
ABT-99-4.560	4.3	4.3	60.0	6.0	5.0	8.3	4.3	6.3	4.7	5.3	5.7
BRIGHTSTAR II	4.3	4.7	60.0	7.0	5.7	9.0	5.3	7.0	5.3	5.7	5.7
INSPIRE (R8000)	4.3	4.3	46.7	5.7	5.3	9.0	5.0	7.0	4.7	5.7	5.7
JET	5.3	3.7	46.7	7.0	6.0	8.7	4.7	6.7	4.7	5.0	5.7
LPR 98-144	5.0	4.3	53.3	6.7	5.3	8.0	4.7	6.3	4.3	4.7	5.7
PARAGON	4.0	4.0	50.0	7.3	5.0	8.3	4.7	6.3	5.0	5.3	5.7
PENNANT II	5.0	4.3	58.3	6.7	5.7	9.0	4.7	6.7	5.0	5.0	5.7
PICK PRNGS	4.3	3.7	46.7	6.3	5.0	8.3	4.3	5.7	4.7	5.0	5.7
RADIANT	4.7	4.0	51.7	6.3	5.7	8.7	5.0	6.7	5.0	5.0	5.7
SUMMERSET (MB 413)	4.7	4.3	56.7	6.7	5.3	8.7	4.0	6.3	5.0	5.3	5.7
SUPERSTAR (EP57)	4.3	4.0	46.7	5.3	5.7	8.7	4.7	6.7	4.7	4.7	5.7
ABT-99-4.339	3.7	3.7	48.3	5.7	5.0	8.7	4.3	6.3	4.7	4.7	5.3
ABT-99-4.464	4.3	4.3	50.0	5.3	5.0	8.3	4.3	6.3	4.3	5.0	5.3
ABT-99-4.815	4.3	4.0	50.0	6.0	4.7	8.0	4.3	6.3	4.0	5.0	5.3
ABT-99-4.965	4.0	4.0	53.3	5.7	4.7	7.7	4.0	6.3	4.3	5.0	5.3
ADMIRE (JR-151)	4.3	4.0	46.7	6.0	5.0	8.7	4.7	6.7	5.0	5.0	5.3
ALL STAR2 (CIS-PR-78)	4.7	4.7	48.3	6.3	4.3	8.0	4.3	6.0	5.3	5.0	5.3
AMAZING (B1)	5.3	4.7	58.3	5.7	5.3	8.0	4.7	6.3	5.3	5.7	5.3
APPLAUD (PENNINGTON-11301)	5.0	4.7	50.0	5.7	4.7	7.3	4.7	6.7	4.7	4.7	5.3
CALYPSO II	4.3	4.0	56.7	6.0	5.0	8.7	4.7	6.7	4.3	5.0	5.3
CATHEDRAL II	4.3	4.0	48.3	6.0	5.7	8.7	4.7	6.7	5.0	5.3	5.3
CITATION FORE (PST-2BR)	4.3	3.7	46.7	5.3	5.7	8.3	4.3	5.7	5.0	4.7	5.3
DAZZLE (ABT-99-4.724)	3.3	4.3	53.3	6.3	6.0	8.3	4.3	6.3	5.0	5.3	5.3
DLF-LDD	4.7	4.7	55.0	7.0	6.0	8.7	5.3	7.0	5.0	5.0	5.3
EDGE	4.0	3.3	43.3	6.3	5.3	8.7	4.3	6.3	4.7	4.7	5.3
GRAND SLAM 2L96 (PST-2L96)	4.7	4.0	60.0	6.3	5.7	8.7	4.0	6.0	4.7	5.0	5.3
HAWKEYE (SRX 4RHT)	4.7	4.3	56.7	6.3	6.0	9.0	4.7	6.7	6.0	6.0	5.3
ICON (MB 414)	4.0	4.0	50.0	6.3	6.3	9.0	4.0	6.0	4.3	5.0	5.3
IQ (CIS-PR-75)	4.7	4.3	53.3	6.0	4.7	7.7	4.3	5.7	4.3	4.7	5.3
KOKOMO (CIS-PR-69)	4.3	4.7	50.0	5.7	4.7	8.0	4.3	6.3	4.7	5.3	5.3
LINE DRIVE	4.0	4.0	43.3	5.3	5.3	9.0	4.3	6.3	5.3	4.7	5.3
MANHATTAN 3	4.0	3.7	48.3	6.0	4.7	8.3	4.7	6.7	4.0	4.7	5.3
PACESETTER (6011)	4.7	4.0	55.0	6.7	6.0	9.0	5.0	7.0	4.0	5.0	5.3
PANTHER	4.3	4.0	46.7	6.0	4.7	8.3	5.0	6.7	5.0	5.0	5.3
PENTIUM (NJ-6401)	4.3	4.3	46.7	5.7	4.3	8.0	4.7	6.0	4.7	4.7	5.3
PINNACLE II (BAR 9 B2)	4.7	4.0	50.0	5.7	6.0	8.7	4.7	6.7	5.7	5.3	5.3
PIZZAZZ	4.3	4.0	50.0	6.7	5.3	8.0	5.0	6.3	4.3	5.0	5.3
PLEASURE XL	4.0	4.0	53.3	5.7	5.0	8.7	5.0	6.7	4.3	4.7	5.3
PROMISE	4.0	4.3	51.7	6.0	5.0	7.3	5.0	6.7	4.7	4.7	5.3
PST-2M4	4.3	4.0	50.0	5.7	4.7	8.3	4.0	5.7	3.7	4.0	5.3
SALINAS (PST-2SLX)	4.3	3.7	46.7	6.3	5.0	8.0	4.3	6.0	4.7	4.7	5.3

TABLE 41. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
AT PUYALLUP (SPORTS WEAR STUDY), WA 1/  
2000-03 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	AFTER TRAFFIC IN MAY			AFTER TRAFFIC IN JULY			AFTER TRAFFIC IN SEPTEMBER			AFTER TRAFFIC IN NOVEMBER	
	QUALITY 6 WEEKS	QUALITY 8 WEEKS	% COVER 8 WEEKS	QUALITY 2 WEEKS	QUALITY 6 WEEKS	DENSITY 6 WEEKS	QUALITY 2 WEEKS	DENSITY 2 WEEKS	DENSITY 8 WEEKS	DENSITY 2 WEEKS	DENSITY 4 WEEKS
SECRETARIAT	4.3	4.3	56.7	6.0	5.7	7.7	4.7	6.3	4.7	4.3	5.3
SPLENDID (MB 411)	4.3	4.0	51.7	6.0	5.7	9.0	4.3	6.3	4.7	4.7	5.3
TERRADYNE (A5C)	5.0	3.7	50.0	6.0	6.0	8.7	4.7	6.7	5.0	5.3	5.3
WVPB-R-82	4.0	4.3	46.7	5.3	5.0	8.0	4.3	6.3	4.3	3.7	5.3
AFFINITY	4.3	4.0	50.0	6.3	5.3	8.0	4.3	6.0	4.3	5.0	5.0
APR 776	4.0	4.0	50.0	5.7	5.0	8.3	4.3	6.0	4.3	4.7	5.0
BARLENNIUM	4.7	4.0	53.3	5.7	5.3	8.3	4.3	6.3	4.3	5.0	5.0
BRIGHTSTAR SLT (PST-2A6B)	4.3	4.3	56.7	7.0	5.7	9.0	4.3	6.3	5.3	4.7	5.0
BUCCANEER	3.7	3.7	50.0	5.0	4.3	7.7	4.3	6.3	4.0	4.0	5.0
CATALINA II (PST-CATS)	4.7	4.0	58.3	6.3	5.3	8.3	4.7	6.7	5.3	5.7	5.0
CHARGER II	4.3	4.0	50.0	6.0	5.7	9.0	4.7	6.7	4.7	4.7	5.0
CHARISMATIC (LTP 98-501)	5.0	4.0	48.3	5.7	5.3	8.0	4.7	6.7	4.7	5.0	5.0
COURAGE (MB 410)	5.0	4.0	56.7	6.0	5.0	9.0	4.7	6.7	4.7	4.0	5.0
DIVINE	4.0	3.7	50.0	5.0	5.0	8.3	4.3	6.0	4.0	4.3	5.0
DP 17-9391	4.0	3.0	40.0	5.3	5.0	8.7	3.7	5.7	3.3	4.0	5.0
DP LP-1	4.7	3.7	53.3	6.3	5.3	9.0	4.3	6.3	5.0	4.0	5.0
ELFKIN	4.7	3.7	46.7	5.7	5.3	8.7	4.0	6.0	5.0	4.7	5.0
EP53	4.7	4.0	50.0	5.7	5.0	8.3	4.0	6.0	4.7	4.7	5.0
FIESTA 3	5.0	4.3	50.0	6.3	5.7	8.7	4.7	6.7	5.3	4.3	5.0
HEADSTART	4.3	4.0	50.0	6.0	5.0	8.3	4.3	6.3	4.3	4.3	5.0
LS 2100 (PST-2SBE)	4.7	4.0	53.3	6.3	5.0	8.7	5.0	6.7	4.3	4.0	5.0
MACH 1 (ROBERTS-627)	4.3	4.3	50.0	5.7	5.0	7.3	5.0	6.7	5.3	5.7	5.0
MONTEREY II (JR-187)	4.7	4.3	56.7	6.0	5.0	8.0	4.3	6.3	5.3	5.0	5.0
MP88	4.0	4.0	50.0	5.7	4.7	8.3	4.3	5.7	4.3	4.7	5.0
PALMER III	4.3	3.7	56.7	6.3	5.3	8.3	4.3	6.0	4.3	4.7	5.0
PARADIGM (APR 1236)	3.3	4.0	43.3	6.0	4.7	8.0	4.0	6.0	4.0	5.0	5.0
PHANTOM	4.0	4.0	51.7	5.3	4.7	8.7	4.3	6.3	4.7	4.3	5.0
PICK PR B-97	4.0	3.0	46.7	6.0	5.3	8.3	4.0	6.0	4.7	5.3	5.0
PICK PR QH-97	3.3	3.7	50.0	6.0	5.7	8.7	4.3	6.3	5.0	5.0	5.0
PREMIER II	4.3	4.3	56.7	6.0	5.7	8.3	5.0	7.0	4.0	5.0	5.0
PROSPORT (AG-P981)	4.0	4.0	51.7	6.7	5.0	8.7	4.7	6.3	4.7	4.7	5.0
PROTYME (ABT-99-4.625)	3.7	3.3	46.7	5.3	4.3	7.3	4.3	6.0	4.0	4.7	5.0
PROWLER (APR 777)	4.0	3.7	50.0	5.7	5.0	8.3	4.0	6.0	4.0	4.3	5.0
PST-2CRR	3.3	3.7	45.0	5.7	4.7	8.3	4.3	6.3	4.0	4.3	5.0
PST-2LA	4.7	4.3	60.0	6.7	5.3	8.7	4.7	6.3	4.7	5.3	5.0
QUEST II (ABT-99-4.721)	4.0	4.0	53.3	5.7	5.3	8.3	4.7	6.3	4.7	5.0	5.0
SR 4220 (SRX 4801)	4.0	3.7	46.7	5.7	5.0	8.3	5.0	6.7	5.3	5.3	5.0
ABT-99-4.115	5.0	4.0	50.0	6.7	5.3	9.0	4.3	6.3	4.7	5.3	4.7
ABT-99-4.600	4.3	3.7	50.0	5.3	5.0	8.0	4.7	6.3	4.3	4.3	4.7
AFFIRMED	4.3	4.0	50.0	5.7	5.0	8.3	5.0	7.0	4.3	5.0	4.7
ALLSPORT	3.7	3.3	48.3	5.3	5.0	8.0	4.3	6.3	5.0	5.3	4.7
APR 1231	4.3	4.0	53.3	5.7	5.3	8.0	4.0	6.0	4.7	4.3	4.7
BLAZER IV (PICK MDR)	4.0	3.7	46.7	6.0	5.0	8.3	4.0	6.0	5.7	5.7	4.7
BY-100	4.0	3.7	46.7	6.3	5.7	9.0	4.0	6.0	4.3	5.0	4.7
CABO (CIS-PR-80)	4.3	4.0	50.0	5.3	5.7	8.3	4.7	6.7	5.0	5.3	4.7
CATALINA	4.0	4.3	50.0	6.0	5.0	8.0	4.3	6.0	4.3	4.7	4.7
CHURCHILL	4.7	4.3	50.0	6.0	5.3	8.7	5.0	6.7	5.0	5.3	4.7
DP 17-9069	4.3	4.0	55.0	6.3	5.3	8.7	3.7	5.7	4.3	4.0	4.7

TABLE 41. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
AT PUYALLUP (SPORTS WEAR STUDY), WA 1/  
2000-03 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	AFTER TRAFFIC IN MAY			AFTER TRAFFIC IN JULY			AFTER TRAFFIC IN SEPTEMBER			AFTER TRAFFIC IN NOVEMBER	
	QUALITY 6 WEEKS	QUALITY 8 WEEKS	% COVER 8 WEEKS	QUALITY 2 WEEKS	QUALITY 6 WEEKS	DENSITY 6 WEEKS	QUALITY 2 WEEKS	DENSITY 2 WEEKS	DENSITY 8 WEEKS	DENSITY 2 WEEKS	DENSITY 4 WEEKS
EXACTA	4.7	4.3	56.7	5.7	5.7	8.3	4.7	6.3	4.7	5.3	4.7
EXTREME (JR-317)	4.7	4.0	50.0	6.3	5.0	8.3	4.3	6.0	4.7	5.3	4.7
GALLERY (MB 412)	4.0	4.0	46.7	6.0	5.0	8.0	4.0	5.7	4.7	4.7	4.7
JR-128	4.3	4.0	46.7	5.3	5.0	7.3	5.0	6.7	5.7	5.0	4.7
MAJESTY	4.3	3.7	50.0	5.3	5.0	7.7	4.3	6.3	4.3	5.7	4.7
MANHATTAN 4 (PST-2CRL)	4.3	4.3	56.7	6.3	6.0	9.0	5.0	6.7	5.0	5.3	4.7
MDP	4.0	4.0	50.0	6.0	5.0	8.7	4.0	6.0	4.0	5.0	4.7
NEXUS	3.3	4.0	45.0	6.0	5.3	8.7	4.3	6.0	5.0	4.7	4.7
PEARL II (EPD)	4.0	4.0	51.7	5.3	5.0	8.3	4.3	6.0	4.3	4.7	4.7
PICK EX2	4.0	4.0	48.3	6.0	5.3	8.0	4.7	6.3	4.0	4.3	4.7
PST-2RT	4.3	4.0	53.3	6.0	4.7	8.0	4.3	6.3	4.0	4.7	4.7
RACER II (PICK RC2)	4.3	4.0	45.0	5.7	5.0	8.3	5.0	6.7	4.3	5.3	4.7
SEVILLE II	4.3	4.0	50.0	5.3	5.0	8.0	5.0	7.0	5.0	5.3	4.7
SR 4500	4.0	4.0	50.0	5.3	5.3	8.7	4.0	6.0	5.0	4.7	4.7
SRX 4120	4.0	4.0	46.7	5.0	4.7	8.7	4.0	5.7	4.0	4.3	4.7
STELLAR (CIS-PR-72)	4.7	4.0	53.3	5.3	4.7	8.3	4.7	6.7	4.7	4.7	4.7
WILMINGTON	4.3	4.3	56.7	6.0	5.7	8.0	4.3	6.3	5.0	5.0	4.7
APR 1234	4.0	4.3	43.3	5.0	4.7	7.3	4.0	6.0	4.0	4.3	4.3
CAS-LP84	4.3	4.0	53.3	5.7	5.0	8.3	4.0	6.0	4.3	4.7	4.3
CRUISER (ABT-99-4.709)	3.7	3.7	43.3	5.0	4.7	8.0	4.0	5.7	4.3	5.0	4.3
KOOS R-71	4.0	4.0	40.0	5.3	5.0	8.7	4.0	5.7	4.0	4.3	4.3
LPR 98-143	4.0	3.7	50.0	6.0	4.7	7.7	4.7	6.3	4.3	4.3	4.3
LTP-ME	4.0	4.0	46.7	5.0	4.7	7.7	5.0	6.7	5.0	5.3	4.3
MP103	4.0	4.0	50.0	6.0	5.3	8.7	4.0	6.0	5.0	5.0	4.3
PREMIER	3.7	3.3	43.3	5.0	5.0	8.0	4.0	6.0	4.0	4.7	4.3
RACER	4.7	4.3	56.7	5.7	5.3	8.7	4.3	6.0	5.0	4.3	4.3
RENAISSANCE (APR 1233)	4.7	4.0	50.0	6.0	4.7	8.3	4.3	6.0	3.7	4.3	4.3
SKYHAWK	4.3	3.7	51.7	5.3	5.0	8.3	4.0	6.0	4.3	4.7	4.3
YATSUGREEN	4.0	3.0	43.3	5.0	4.7	7.7	4.3	5.7	3.3	4.0	4.3
APR 1235	4.3	3.7	43.3	5.0	4.3	8.0	4.3	6.0	4.3	4.7	4.0
ASCEND	3.7	3.7	46.7	5.3	4.3	7.7	4.3	6.0	4.7	5.0	4.0
DP 17-9496	3.7	2.7	40.0	5.0	4.0	8.0	4.3	5.3	3.3	4.0	4.0
MEPY	4.3	3.7	48.3	5.0	5.3	8.0	4.3	6.0	4.7	5.0	4.0
MP107	3.7	3.7	50.0	5.3	5.3	8.0	4.0	6.0	4.3	5.0	4.0
SR 4350 (APR 1237)	4.3	4.0	50.0	5.3	4.7	8.3	4.3	6.3	3.7	4.3	4.0
WVPB-R-84	3.5	4.0	50.0	6.0	5.0	8.0	4.0	6.0	3.7	4.3	4.0
APR 1232	4.3	3.3	40.0	5.7	4.7	7.3	3.7	5.7	4.0	4.0	3.7
LINN	3.0	2.0	36.7	3.7	3.3	6.3	3.0	4.7	3.0	3.0	3.3
LSD VALUE	1.3	1.1	23.7	3.0	1.6	2.4	1.4	1.4	1.2	1.2	2.2
C.V. (%)	13.1	13.0	14.3	15.0	13.1	8.9	12.4	8.8	13.5	12.1	15.8

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.

3/ MEAN TURFGRASS QUALITY AND OTHER RATED IN 2000.

TABLE 42.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
AT PUYALLUP (TRAFFIC STUDY), WA 1/  
2000-03 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	AFTER TRAFFIC IN JUNE					AFTER TRAFFIC IN SEPTEMBER			AFTER TRAFFIC IN NOVEMBER			DENSITY ON NONTRAFFIC AREAS			
	QUALITY 2 WEEKS	DENSITY 2 WEEKS	QUALITY 4 WEEKS	DENSITY 4 WEEKS	QUALITY 8 WEEKS	QUALITY 6 WEEKS	QUALITY 8 WEEKS	DENSITY 8 WEEKS	QUALITY 2 WEEKS	DENSITY 2 WEEKS	DENSITY 4 WEEKS	SEP.19	NOV.16	DEC.2	DEC.17
ABT-99-4.560	3.7	6.0	4.3	6.3	5.0	3.3	3.3	4.0	3.7	5.0	5.0	6.7	7.0	7.7	9.0
ALL STAR2 (CIS-PR-78)	4.0	5.7	4.0	6.0	5.0	3.7	3.7	5.0	4.0	5.0	6.0	6.3	7.3	7.7	9.0
AMAZING (B1)	4.3	6.0	4.3	6.0	5.0	3.7	3.7	4.3	4.0	5.0	5.3	7.3	7.3	8.0	9.0
APPLAUD (PENNINGTON-11301)	4.7	6.0	4.3	6.7	5.3	4.3	4.0	5.0	4.0	6.3	5.7	6.7	8.0	8.3	9.0
BLAZER IV (PICK MDR)	4.0	5.7	4.0	5.7	5.0	4.0	3.3	4.3	3.7	4.7	5.0	7.7	7.3	8.7	9.0
BRIGHTSTAR II	4.3	6.7	4.7	6.3	4.7	3.7	3.0	4.0	4.0	4.7	5.3	7.3	8.3	9.0	9.0
CAS-LP84	4.7	7.0	4.0	6.0	5.0	3.0	3.0	4.3	4.0	5.3	5.3	6.3	6.7	8.0	9.0
CATALINA II (PST-CATS)	4.3	6.0	4.3	6.7	5.3	4.3	4.0	5.3	4.0	5.3	5.7	7.7	8.0	8.7	9.0
CHARISMATIC (LTP 98-501)	4.0	4.7	4.0	6.0	4.7	3.7	3.7	5.3	3.7	5.0	5.0	7.0	7.7	8.7	9.0
CITATION FORE (PST-2BR)	4.3	5.7	4.7	6.0	5.0	3.7	4.0	5.0	4.0	5.0	5.0	7.7	8.0	8.3	9.0
DAZZLE (ABT-99-4.724)	4.0	6.0	4.3	6.7	5.3	2.7	3.3	4.3	3.7	5.3	5.3	7.0	8.0	8.3	9.0
DLF-LDD	4.0	5.3	4.7	6.3	6.0	3.7	4.3	5.3	4.0	5.3	5.3	8.0	7.7	8.7	9.0
DP 17-9069	4.0	6.0	4.0	6.3	5.0	3.3	3.0	4.0	3.7	4.7	4.7	6.3	6.3	8.3	9.0
ELFKIN	3.7	5.7	4.0	5.7	4.7	3.7	3.3	4.7	3.7	5.7	5.3	7.0	7.7	8.3	9.0
GATOR 3 (CIS-PR-85)	4.3	5.7	4.7	6.7	5.7	3.7	3.7	4.7	4.0	5.3	5.7	7.7	8.3	8.7	9.0
GRAND SLAM 2L96 (PST-2L96)	3.3	5.3	4.3	6.0	5.0	3.0	3.0	5.0	4.0	5.3	5.7	7.3	7.7	8.3	9.0
HAWKEYE (SRX 4RHT)	4.3	5.7	4.3	5.7	5.3	4.0	3.7	5.0	4.0	6.0	6.0	7.3	7.7	8.7	9.0
INSPIRE (R8000)	3.7	5.0	4.7	6.3	5.0	3.3	3.0	4.3	3.7	4.7	5.3	7.7	7.3	8.7	9.0
JET	4.3	5.7	4.7	6.7	5.0	3.0	3.7	4.7	3.3	5.0	4.3	7.3	7.7	8.7	9.0
KOKOMO (CIS-PR-69)	4.7	6.3	4.7	6.3	5.7	4.0	4.3	5.3	4.0	6.0	5.7	7.0	7.7	7.7	9.0
LINE DRIVE	3.7	6.3	4.3	6.0	4.3	3.3	3.3	4.3	4.0	5.0	5.7	7.0	7.7	7.7	9.0
MACH 1 (ROBERTS-627)	4.0	5.3	4.0	5.7	5.3	3.7	3.7	5.0	4.0	5.3	5.7	7.3	8.0	9.0	9.0
MANHATTAN 4 (PST-2CRL)	4.3	5.7	4.3	6.0	5.0	4.0	3.3	5.0	4.0	6.0	6.3	7.0	7.7	8.3	9.0
PARAGON	4.3	5.7	4.0	6.0	5.0	3.0	3.0	4.0	3.7	4.3	4.7	6.7	7.7	7.7	9.0
PENTIUM (NJ-6401)	4.3	6.3	5.0	6.7	5.7	4.3	3.7	5.0	4.0	6.0	5.7	7.0	7.3	8.7	9.0
PINNACLE II (BAR 9 B2)	4.3	6.0	4.3	6.3	5.0	3.3	3.7	4.7	4.0	4.7	5.0	7.0	7.7	8.7	9.0
PIZZAZZ	4.0	5.3	3.7	5.3	4.3	3.7	4.0	5.0	4.0	5.0	5.7	6.7	7.7	8.0	9.0
PR 1-94 (PICK PR 1-94)	4.0	6.0	4.0	6.0	5.0	3.7	3.7	4.7	4.0	4.7	5.0	7.3	7.7	8.0	9.0
PREMIER II	3.7	5.3	4.0	6.0	5.0	3.7	3.7	4.7	4.0	5.3	5.3	6.7	7.3	8.0	9.0
PROMISE	4.0	6.0	4.3	6.0	4.7	3.7	3.3	4.7	4.0	6.0	5.0	6.7	7.0	7.7	9.0
PST-2LA	4.7	6.3	4.7	7.0	5.7	3.7	3.3	4.3	4.0	5.3	5.3	7.0	7.3	8.0	9.0
QUEST II (ABT-99-4.721)	4.0	5.7	4.3	6.0	4.7	4.0	3.7	4.7	4.0	5.0	5.0	7.3	7.3	8.7	9.0
RACER II (PICK RC2)	4.3	5.7	4.7	6.3	4.7	3.7	3.0	4.0	4.0	5.7	5.7	7.0	6.7	7.7	9.0
SEVILLE II	4.0	6.0	5.3	6.7	6.0	4.0	3.7	4.7	4.0	5.3	5.3	7.7	8.3	8.7	9.0
SR 4220 (SRX 4801)	4.0	5.3	4.3	6.3	4.3	3.7	3.7	5.0	4.0	5.3	5.3	6.7	8.0	8.7	9.0
SR 4420 (SRX 4820)	4.7	6.0	4.7	6.0	5.3	3.7	3.7	4.3	4.0	5.3	5.7	8.0	8.0	8.3	9.0
STELLAR (CIS-PR-72)	4.0	5.3	4.0	6.3	5.0	4.3	3.7	4.7	3.7	5.0	5.3	7.3	8.0	8.7	9.0
SUNKISSED (ABT-99-4.834)	4.7	5.3	4.3	6.7	5.0	4.0	4.0	5.7	4.0	6.3	6.3	7.3	7.3	8.0	9.0
TERRADYNE (A5C)	4.7	5.7	5.0	6.3	6.0	3.3	3.3	5.3	3.7	5.0	4.3	7.7	7.7	8.7	9.0
ABT-99-4.115	4.0	5.3	4.3	6.3	4.7	3.3	3.0	4.7	4.0	5.3	5.0	6.7	7.3	8.3	8.7
ABT-99-4.965	3.7	5.0	4.0	6.3	5.3	2.7	3.3	4.0	3.3	5.0	4.3	7.0	7.7	8.3	8.7
ARRIVAL (CIS-PR-84)	3.3	5.3	4.3	6.7	5.7	3.7	3.0	4.3	4.0	5.0	5.0	7.3	8.3	8.7	8.7
CALYPSO II	4.7	5.7	4.7	6.7	5.7	3.3	3.3	4.3	4.0	5.0	5.0	7.7	7.3	7.3	8.7
CATALINA	3.7	5.3	3.7	6.0	4.3	3.3	3.0	4.0	3.7	5.0	5.0	7.0	7.0	8.0	8.7
CATHEDRAL II	4.7	6.3	4.0	6.3	4.7	4.0	4.0	5.0	3.7	5.0	5.0	7.0	7.0	7.3	8.7
CHARGER II	4.3	6.0	5.0	7.0	5.0	4.0	4.0	5.0	4.0	5.3	5.7	6.0	6.7	7.7	8.7
CRUISER (ABT-99-4.709)	4.3	6.3	4.3	6.3	5.0	4.0	3.7	5.0	3.7	5.3	5.3	6.7	7.0	7.7	8.7
DIVINE	3.3	5.3	4.0	5.7	4.3	3.3	3.3	4.0	3.7	5.3	4.3	7.0	7.3	7.7	8.7

TABLE 42. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
AT PUYALLUP (TRAFFIC STUDY), WA 1/  
2000-03 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	AFTER TRAFFIC IN JUNE					AFTER TRAFFIC IN SEPTEMBER			AFTER TRAFFIC IN NOVEMBER			DENSITY ON NONTRAFFIC AREAS			
	QUALITY 2 WEEKS	DENSITY 2 WEEKS	QUALITY 4 WEEKS	DENSITY 4 WEEKS	QUALITY 8 WEEKS	QUALITY 6 WEEKS	QUALITY 8 WEEKS	DENSITY 8 WEEKS	QUALITY 2 WEEKS	DENSITY 2 WEEKS	DENSITY 4 WEEKS	SEP.19	NOV.16	DEC.2	DEC.17
DP LP-1	4.0	5.7	3.3	5.3	4.3	3.3	2.7	3.7	3.3	4.3	4.3	6.0	7.0	7.7	8.7
EXACTA	4.0	5.0	4.0	6.3	5.0	3.3	3.7	4.3	3.7	4.3	5.0	6.7	7.3	8.3	8.7
HEADSTART	4.0	5.0	3.3	5.3	4.3	2.7	3.3	4.3	3.7	4.3	4.7	6.3	6.3	7.7	8.7
ICON (MB 414)	3.7	5.3	4.0	6.0	4.7	3.3	2.7	3.7	3.3	4.3	4.3	7.3	7.7	7.7	8.7
JR-128	4.3	6.0	4.3	6.3	4.7	3.0	3.0	4.0	3.3	4.3	4.7	6.3	7.0	7.3	8.7
MAJESTY	4.0	5.0	4.3	6.0	4.7	3.0	3.0	4.0	3.3	4.3	4.0	7.0	6.7	7.7	8.7
MEPY	4.0	5.7	4.3	6.3	4.7	3.0	3.7	4.3	3.3	5.0	5.0	6.0	6.7	7.3	8.7
MP103	3.7	5.7	4.0	6.3	4.7	3.3	3.3	4.3	3.3	4.3	4.3	7.0	7.3	8.0	8.7
MP107	3.0	4.7	3.7	5.7	4.7	3.0	3.0	4.0	3.3	4.0	4.7	6.3	6.7	7.0	8.7
PACESETTER (6011)	4.7	6.7	4.3	6.0	5.0	3.0	3.3	4.7	3.3	5.0	4.7	7.0	7.7	8.3	8.7
PALMER III	4.3	6.3	4.3	5.7	5.0	3.7	3.7	4.3	3.7	4.7	5.3	6.7	7.0	7.7	8.7
PANTHER	4.7	6.3	5.0	7.0	6.3	3.7	3.3	4.3	3.7	5.0	4.7	7.3	7.0	7.7	8.7
PENNANT II	4.0	6.0	4.3	6.0	5.7	4.0	4.0	4.7	4.0	5.3	5.7	7.3	7.7	8.0	8.7
PICK PR QH-97	4.7	6.3	4.7	7.0	5.0	3.3	3.3	4.0	3.7	5.0	4.7	7.3	7.3	8.0	8.7
SALINAS (PST-2SLX)	4.0	5.3	4.7	6.7	4.7	3.0	3.3	4.7	3.3	4.3	4.3	7.0	7.3	8.3	8.7
SR 4500	4.0	5.3	4.3	6.7	5.3	3.3	3.3	4.3	3.3	4.7	5.0	8.0	7.7	7.7	8.7
WILMINGTON	3.3	6.0	3.7	6.0	4.7	2.7	3.0	4.0	4.0	4.7	4.3	7.3	7.7	8.3	8.7
ABT-99-4.464	4.0	6.0	4.0	5.7	4.7	3.7	3.3	4.0	4.0	5.3	5.0	6.7	6.7	7.7	8.3
ABT-99-4.600	3.7	5.3	3.7	5.7	5.3	3.3	3.0	3.7	3.3	4.0	4.3	6.3	6.7	7.7	8.3
ABT-99-4.815	3.7	5.3	4.3	6.0	5.0	3.7	3.7	4.7	4.0	4.7	4.7	7.3	6.7	7.3	8.3
ADMIRE (JR-151)	4.7	6.3	4.7	6.7	4.7	3.7	4.0	5.0	4.0	5.7	5.7	7.0	7.0	7.7	8.3
AFFIRMED	4.0	5.3	4.0	6.3	4.3	3.0	3.3	4.0	3.7	4.7	5.0	6.7	7.0	7.3	8.3
APR 1231	3.7	5.3	3.7	5.3	4.7	3.3	3.3	4.3	3.7	4.7	4.3	6.7	7.3	7.7	8.3
APR 1232	3.7	5.3	4.0	5.3	4.7	3.3	3.3	4.3	3.7	4.7	4.7	7.0	7.7	8.0	8.3
APR 1234	3.7	5.3	3.7	5.7	4.3	3.7	3.7	4.7	4.0	5.0	5.0	6.3	7.3	7.3	8.3
APR 776	4.0	5.7	3.7	5.7	4.0	2.7	3.0	4.0	3.7	4.7	4.3	6.3	7.0	7.3	8.3
BARLENNIUM	4.0	5.3	4.0	5.7	5.0	3.3	3.7	4.7	3.7	4.7	4.7	6.7	7.3	8.0	8.3
BRIGHTSTAR SLT (PST-2A6B)	4.7	5.7	4.0	6.0	4.7	4.0	3.7	5.0	4.0	5.7	5.3	6.7	7.0	7.3	8.3
CABO (CIS-PR-80)	3.7	5.7	4.0	6.3	4.3	3.3	3.3	4.3	4.0	5.3	5.0	7.3	7.7	8.0	8.3
CHURCHILL	4.0	6.0	4.3	6.0	5.0	3.3	3.3	4.7	3.7	4.3	4.7	6.7	7.0	8.0	8.3
COURAGE (MB 410)	4.3	6.3	4.3	6.3	5.0	3.7	3.3	4.3	3.7	4.7	5.0	7.3	7.3	8.0	8.3
DP 17-9391	3.3	5.7	3.7	6.3	4.7	3.3	3.0	3.7	3.0	4.3	4.3	6.7	6.7	7.3	8.3
DP 17-9496	3.0	4.3	3.0	5.0	4.3	3.0	3.0	4.0	3.3	3.7	4.3	5.7	7.0	7.7	8.3
EP53	4.0	6.0	3.3	6.0	4.3	3.3	3.3	5.0	4.0	5.3	5.7	6.3	6.3	7.3	8.3
EXTREME (JR-317)	4.0	5.7	4.3	6.0	4.7	3.3	3.3	4.3	3.7	5.0	4.3	6.7	7.3	7.7	8.3
FIESTA 3	4.3	6.0	4.0	5.7	4.7	4.0	3.7	4.3	4.0	5.0	4.7	7.7	7.0	7.7	8.3
GALLERY (MB 412)	4.3	6.0	4.3	6.0	5.0	2.7	3.3	4.3	3.7	5.0	3.7	7.0	7.0	8.0	8.3
IQ (CIS-PR-75)	4.0	6.0	4.0	6.0	4.3	3.0	3.0	4.3	3.7	3.7	4.7	7.3	7.7	8.0	8.3
LPR 98-144	4.3	5.7	4.7	6.0	5.0	3.3	3.3	4.0	3.7	4.3	5.0	6.7	6.0	7.0	8.3
LS 2100 (PST-2SBE)	4.3	6.0	4.3	6.3	5.0	3.7	3.3	4.3	3.7	5.3	5.0	6.7	7.0	7.7	8.3
LTP-ME	3.7	5.7	3.7	6.0	4.3	2.7	3.0	4.0	3.7	5.0	4.3	5.7	6.7	7.7	8.3
MANHATTAN 3	4.3	6.3	4.0	6.0	4.3	4.0	3.3	4.3	4.0	5.0	4.7	6.7	7.0	7.3	8.3
MDP	4.0	5.0	4.3	6.0	4.3	3.0	3.0	4.3	3.7	4.3	4.7	6.0	6.7	7.0	8.3
MONTEREY II (JR-187)	4.3	5.7	4.0	6.0	5.0	3.0	3.0	4.0	4.0	4.7	5.0	7.7	7.0	8.0	8.3
MP88	4.0	6.3	4.3	6.3	4.7	3.7	3.7	4.3	4.0	5.7	5.0	6.7	6.7	8.0	8.3
PEARL II (EPD)	3.7	5.7	3.7	6.0	5.3	3.3	3.0	4.0	3.3	4.3	4.7	7.3	7.0	7.3	8.3
PICK EX2	3.7	5.3	4.0	6.0	4.7	3.0	3.7	4.3	3.7	4.7	5.0	7.0	7.0	8.0	8.3
PREMIER	3.3	4.7	3.7	6.0	4.7	3.3	3.3	4.0	4.0	5.0	4.7	6.3	6.3	7.3	8.3

TABLE 42. (CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
AT PUYALLUP (TRAFFIC STUDY), WA 1/  
2000-03 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	AFTER TRAFFIC IN JUNE					AFTER TRAFFIC IN SEPTEMBER			AFTER TRAFFIC IN NOVEMBER			DENSITY ON NONTRAFFIC AREAS			
	QUALITY 2 WEEKS	DENSITY 2 WEEKS	QUALITY 4 WEEKS	DENSITY 4 WEEKS	QUALITY 8 WEEKS	QUALITY 6 WEEKS	QUALITY 8 WEEKS	DENSITY 8 WEEKS	QUALITY 2 WEEKS	DENSITY 2 WEEKS	DENSITY 4 WEEKS	SEP.19	NOV.16	DEC.2	DEC.17
PST-2CRR	3.7	5.0	4.3	5.7	4.7	3.3	3.3	4.0	3.7	4.7	4.3	6.0	7.3	7.3	8.3
PST-2JH	4.0	5.3	4.3	7.0	5.7	3.0	3.0	4.3	4.0	5.0	5.0	6.3	7.0	7.7	8.3
PST-2M4	4.0	5.3	4.0	6.0	5.0	3.3	3.3	4.7	3.7	4.3	4.3	7.0	7.0	8.0	8.3
PST-2RT	4.3	6.0	4.0	6.7	5.0	3.7	3.3	4.3	4.0	5.0	5.0	7.0	7.0	7.7	8.3
RACER	4.3	6.0	4.0	6.0	5.3	3.3	2.7	4.0	3.7	5.0	4.7	7.3	6.7	7.7	8.3
RADIANT	4.3	6.7	4.0	6.3	4.7	3.0	3.3	4.3	3.3	4.3	5.0	7.7	7.3	8.0	8.3
RENAISSANCE (APR 1233)	3.3	5.0	3.7	5.7	5.0	3.3	3.7	5.0	3.0	4.7	4.3	7.3	7.3	7.7	8.3
SECRETARIAT	4.0	6.0	4.0	5.7	4.3	3.7	3.3	4.3	3.3	4.3	4.7	6.7	7.0	8.0	8.3
SKYHAWK	3.7	5.7	4.0	6.0	5.3	3.7	3.3	4.3	4.0	4.7	4.3	7.3	7.3	7.3	8.3
SPLENDID (MB 411)	4.0	6.0	4.3	7.0	5.0	3.3	2.7	3.7	3.3	4.7	4.7	7.7	7.0	8.0	8.3
SRX 4120	4.0	6.0	4.3	6.7	5.0	3.7	3.3	4.0	4.0	5.3	5.0	7.0	6.7	7.7	8.3
SUMMERSET (MB 413)	4.0	6.0	4.3	6.3	5.3	3.0	3.0	4.0	3.7	5.0	4.3	7.7	7.0	7.7	8.3
SUPERSTAR (EP57)	3.7	5.3	3.7	5.0	4.0	3.3	3.0	4.0	4.0	4.7	4.7	6.7	6.3	7.3	8.3
WVPB-R-84	4.3	6.0	3.7	5.0	4.7	3.0	2.7	3.7	3.3	4.3	4.7	7.3	6.3	7.3	8.3
ABT-99-4.339	4.0	6.7	4.3	6.3	5.0	3.3	3.7	4.7	4.0	5.3	4.7	6.7	6.7	7.7	8.0
AFFINIITY	3.3	5.0	3.7	6.0	5.0	3.0	3.3	4.0	3.3	4.3	5.0	6.7	7.3	7.3	8.0
ALLSPORT	3.7	5.3	4.3	5.7	4.7	3.3	3.0	4.0	3.3	4.0	3.7	7.0	7.3	7.3	8.0
APR 1235	4.0	5.7	4.3	5.7	5.7	3.7	3.3	4.0	3.0	4.0	4.0	7.0	7.0	7.3	8.0
ASCEND	4.0	5.3	4.3	6.3	5.3	3.0	3.0	4.0	3.3	4.3	4.0	6.7	7.0	8.0	8.0
BUCCANEER	3.7	4.7	4.0	5.7	5.0	3.0	3.0	4.0	3.3	4.7	4.0	6.0	6.3	7.3	8.0
BY-100	3.3	5.0	4.0	6.0	4.7	3.0	3.0	4.3	3.7	4.7	4.3	7.3	7.0	7.7	8.0
EDGE	4.3	6.0	4.0	6.3	4.3	3.3	3.7	4.7	3.7	5.0	5.3	5.7	6.7	7.7	8.0
KOOS R-71	3.7	5.7	4.0	6.3	5.3	3.0	3.3	4.3	3.3	4.7	4.7	6.7	7.3	7.3	8.0
LPR 98-143	4.0	5.7	4.7	7.0	5.3	2.7	3.3	4.3	3.7	4.3	4.0	6.0	7.0	7.3	8.0
NEXUS	4.0	5.0	4.0	6.0	4.0	3.0	3.0	4.0	3.3	4.3	4.0	6.7	7.7	7.7	8.0
PARADIGM (APR 1236)	4.0	6.0	4.3	6.7	5.0	3.3	3.7	4.3	3.7	4.3	4.3	7.0	6.7	8.0	8.0
PASSPORT	4.7	6.0	4.7	6.7	5.0	3.3	3.0	4.0	3.7	5.3	5.0	6.3	6.7	7.3	8.0
PHANTOM	4.0	6.0	4.3	6.3	4.7	3.0	3.0	4.0	3.7	4.3	4.3	6.3	7.0	7.3	8.0
PICK PR B-97	4.3	6.0	4.3	6.3	5.3	3.3	3.3	4.3	3.7	4.7	4.7	7.0	7.0	8.0	8.0
PICK PRNGS	3.7	5.7	4.3	6.7	5.0	3.3	3.3	4.0	4.0	4.7	4.7	6.7	7.0	7.3	8.0
PLEASURE XL	4.0	5.3	4.0	5.7	4.3	3.3	3.0	4.3	3.7	4.3	4.0	7.0	6.7	7.7	8.0
PROSPORT (AG-P981)	3.7	5.3	4.0	6.3	5.0	2.7	3.0	4.0	3.7	4.3	4.3	6.3	7.3	8.0	8.0
PROTYME (ABT-99-4.625)	3.7	5.0	4.0	5.3	4.0	2.7	3.0	4.0	4.0	4.3	4.3	6.0	6.0	7.0	8.0
PROWLER (APR 777)	3.3	5.3	3.7	5.7	4.3	3.0	3.0	3.7	3.7	4.7	4.0	6.3	6.7	7.7	8.0
SR 4350 (APR 1237)	4.0	6.3	4.0	6.0	5.3	3.7	3.0	4.0	3.7	4.7	4.7	7.0	6.3	8.0	8.0
WVPB-R-82	3.7	5.7	4.3	5.7	5.0	3.7	3.3	4.3	3.7	5.3	4.7	6.3	6.7	7.7	8.0
YATSUGREEN	3.3	4.7	3.3	5.3	4.7	3.3	2.7	3.7	3.7	4.0	4.7	6.0	6.3	7.0	8.0
LINN	3.7	5.0	3.3	5.0	3.3	2.3	2.0	2.3	2.3	3.0	3.0	5.0	6.0	7.0	7.3
LSD VALUE	2.5	4.5	3.4	3.8	2.4	1.4	1.3	1.3	1.3	2.5	1.5	1.6	1.1	1.2	0.8
C.V. (%)	15.9	15.5	16.4	12.9	14.7	16.9	15.4	13.9	12.0	16.9	14.7	10.4	8.1	7.6	4.9

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.

3/ MEAN TURFGRASS QUALITY AND OTHER RATED IN 2001.

TABLE 43. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE  
 AT PUYALLUP (TRAFFIC STUDY), WA 1/  
 2000-03 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MAY	JUNE	JULY	AUGUST	MEAN
MACH 1 (ROBERTS-627)	6.3	7.7	8.0	9.0	7.8
ABT-99-4.560	6.3	6.7	8.0	9.0	7.5
FIESTA 3	5.0	7.7	8.3	9.0	7.5
ABT-99-4.115	6.0	7.0	7.3	9.0	7.3
ABT-99-4.600	5.7	6.7	7.7	9.0	7.3
CABO (CIS-PR-80)	6.0	6.3	7.7	9.0	7.3
COURAGE (MB 410)	5.7	7.0	7.3	9.0	7.3
LTP-ME	5.3	7.0	7.7	9.0	7.3
MANHATTAN 4 (PST-2CRL)	6.0	7.0	8.0	8.3	7.3
PENNANT II	5.3	7.0	8.0	9.0	7.3
CATALINA	5.3	6.7	7.7	9.0	7.2
IQ (CIS-PR-75)	5.7	7.0	7.0	9.0	7.2
MP103	5.3	6.7	7.7	9.0	7.2
PACESETTER (6011)	6.0	6.7	7.7	8.3	7.2
QUEST II (ABT-99-4.721)	5.0	7.0	7.7	9.0	7.2
CITATION FORE (PST-2BR)	5.0	7.7	7.7	8.0	7.1
INSPIRE (R8000)	5.7	6.3	7.3	9.0	7.1
PST-2JH	5.7	6.3	7.3	9.0	7.1
PREMIER II	5.7	7.0	7.3	8.0	7.0
PST-2LA	5.7	5.7	7.7	9.0	7.0
AFFIRMED	5.3	6.7	7.7	8.0	6.9
ALL STAR2 (CIS-PR-78)	6.0	6.0	8.0	7.7	6.9
APR 776	5.0	6.3	7.3	9.0	6.9
ARRIVAL (CIS-PR-84)	5.7	7.3	7.0	7.7	6.9
CATHEDRAL II	5.0	6.3	7.3	9.0	6.9
PASSPORT	5.0	6.0	7.7	9.0	6.9
SKYHAWK	4.7	7.0	7.0	9.0	6.9
SR 4220 (SRX 4801)	6.0	7.0	7.0	7.7	6.9
TERRADYNE (A5C)	5.3	7.0	7.0	8.3	6.9
WILMINGTON	6.3	7.0	7.3	7.0	6.9
ABT-99-4.815	5.0	6.7	7.0	8.3	6.8
AFFINITY	5.7	6.0	6.7	9.0	6.8
BY-100	5.0	6.3	6.7	9.0	6.8
CALYPSO II	5.0	5.3	7.7	9.0	6.8
GATOR 3 (CIS-PR-85)	5.3	6.0	7.7	8.0	6.8
MP88	6.3	6.0	7.0	8.0	6.8
PROMISE	4.7	6.7	7.3	8.3	6.8
PST-2M4	4.7	6.7	6.7	9.0	6.8
RACER	5.7	5.7	7.7	8.0	6.8
RACER II (PICK RC2)	5.3	6.7	7.7	7.7	6.8
RADIANT	6.3	6.7	7.0	7.3	6.8
SR 4350 (APR 1237)	5.7	6.0	7.3	8.0	6.8
SR 4500	5.3	6.7	7.0	8.0	6.8
LINE DRIVE	6.0	6.3	6.3	8.0	6.7
MDP	5.3	5.7	6.7	9.0	6.7
MONTEREY II (JR-187)	5.0	6.3	7.0	8.3	6.7
PHANTOM	6.0	6.3	7.0	7.3	6.7
SUNKISSED (ABT-99-4.834)	4.7	6.7	7.0	8.3	6.7



TABLE 43. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE  
 (CONT'D) AT PUYALLUP (TRAFFIC STUDY), WA 1/  
 2000-03 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MAY	JUNE	JULY	AUGUST	MEAN
CHARGER II	4.7	6.3	7.3	8.0	6.6
EP53	5.0	6.0	6.3	9.0	6.6
EXTREME (JR-317)	5.0	5.7	6.7	9.0	6.6
SEVILLE II	4.7	6.3	7.3	8.0	6.6
APPLAUD (PENNINGTON-11301)	5.3	7.0	6.7	7.0	6.5
BARLENNIUM	5.7	6.0	7.0	7.3	6.5
ELFKIN	4.7	6.3	7.0	8.0	6.5
MAJESTY	4.3	5.7	7.0	9.0	6.5
PICK PRNGS	5.0	6.3	7.0	7.7	6.5
SR 4420 (SRX 4820)	4.3	6.3	6.7	8.7	6.5
SUPERSTAR (EP57)	5.0	6.3	6.3	8.3	6.5
AMAZING (B1)	5.0	7.0	7.7	6.0	6.4
APR 1231	6.3	6.0	6.7	6.7	6.4
APR 1235	4.3	6.3	7.0	8.0	6.4
CHARISMATIC (LTP 98-501)	5.3	5.7	6.3	8.3	6.4
CHURCHILL	4.7	6.3	6.7	8.0	6.4
KOKOMO (CIS-PR-69)	5.0	5.7	7.0	8.0	6.4
LS 2100 (PST-2SBE)	5.0	6.0	6.3	8.3	6.4
NEXUS	6.0	5.3	6.7	7.7	6.4
PANTHER	5.3	5.0	7.0	8.3	6.4
PROWLER (APR 777)	5.0	6.0	6.7	8.0	6.4
BRIGHTSTAR II	5.0	5.7	6.7	8.0	6.3
BUCCANEER	4.3	5.0	7.0	8.7	6.3
CATALINA II (PST-CATS)	5.3	6.0	7.3	6.3	6.3
CRUISER (ABT-99-4.709)	4.3	6.0	7.0	8.0	6.3
DAZZLE (ABT-99-4.724)	4.7	6.3	7.3	7.0	6.3
DLF-LDD	6.3	5.7	6.3	6.7	6.3
DP LP-1	5.0	5.7	6.3	8.0	6.3
EXACTA	5.0	6.0	7.3	6.7	6.3
ICON (MB 414)	4.7	6.3	6.3	8.0	6.3
MANHATTAN 3	4.3	6.0	7.3	7.3	6.3
MEPY	5.3	5.7	7.0	7.3	6.3
MP107	6.0	6.0	6.7	6.3	6.3
PALMER III	5.0	6.0	6.0	8.0	6.3
PICK EX2	5.3	5.7	6.7	7.7	6.3
PICK PR QH-97	5.0	5.3	6.7	8.3	6.3
PLEASURE XL	4.3	5.3	6.7	9.0	6.3
RENAISSANCE (APR 1233)	5.0	6.0	6.3	7.7	6.3
SALINAS (PST-2SLX)	5.0	6.3	6.3	7.7	6.3
SPLENDID (MB 411)	4.7	6.3	6.0	8.3	6.3
STELLAR (CIS-PR-72)	4.7	5.3	7.0	8.0	6.3
ABT-99-4.339	5.0	5.3	6.3	8.0	6.2
ABT-99-4.965	4.7	6.3	6.7	7.0	6.2
APR 1232	5.0	5.3	6.3	8.0	6.2
ASCEND	5.3	6.3	6.7	6.3	6.2
JR-128	4.7	5.3	7.0	7.7	6.2
PROTYME (ABT-99-4.625)	4.7	5.7	7.3	7.0	6.2
SUMMERSET (MB 413)	4.3	5.7	7.0	7.7	6.2

TABLE 43. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE  
 (CONT'D) AT PUYALLUP (TRAFFIC STUDY), WA 1/  
 2000-03 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MAY	JUNE	JULY	AUGUST	MEAN
ADMIRE (JR-151)	5.0	5.0	6.3	8.0	6.1
APR 1234	4.3	5.7	6.7	7.7	6.1
BLAZER IV (PICK MDR)	5.3	5.7	6.0	7.3	6.1
DIVINE	5.0	6.0	6.3	7.0	6.1
DP 17-9496	4.0	5.0	6.3	9.0	6.1
JET	5.7	5.3	5.7	7.7	6.1
PARAGON	4.3	6.0	6.3	7.7	6.1
GRAND SLAM 2L96 (PST-2L96)	5.0	5.7	6.7	6.7	6.0
KOOS R-71	5.0	6.0	5.0	8.0	6.0
LPR 98-144	5.0	5.7	7.0	6.3	6.0
PEARL II (EPD)	4.7	5.0	6.7	7.7	6.0
PINNACLE II (BAR 9 B2)	4.3	6.0	6.7	7.0	6.0
CAS-LP84	5.0	6.0	5.7	7.0	5.9
HAWKEYE (SRX 4RHT)	4.3	5.3	6.0	8.0	5.9
LINN	5.0	4.3	6.7	7.7	5.9
LPR 98-143	4.3	6.7	6.7	6.0	5.9
PARADIGM (APR 1236)	5.3	5.3	5.0	8.0	5.9
PICK PR B-97	4.3	6.0	6.3	7.0	5.9
PROSPORT (AG-P981)	5.0	6.0	5.7	7.0	5.9
PST-2CRR	5.0	5.3	6.7	6.7	5.9
YATSUGREEN	3.7	5.0	6.0	9.0	5.9
ALLSPORT	5.0	5.7	6.0	6.3	5.8
GALLERY (MB 412)	4.3	5.3	6.7	6.7	5.8
HEADSTART	5.0	6.0	5.7	6.7	5.8
PENTIUM (NJ-6401)	4.7	5.7	7.0	6.0	5.8
DP 17-9069	4.3	5.0	6.0	7.3	5.7
ABT-99-4.464	4.7	4.7	6.0	6.7	5.5
BRIGHTSTAR SLT (PST-2A6B)	5.0	4.7	6.3	6.0	5.5
PR 1-94 (PICK PR 1-94)	5.0	5.3	5.3	6.3	5.5
PREMIER	3.3	5.7	6.0	7.0	5.5
PST-2RT	4.7	4.7	6.0	6.7	5.5
WVPB-R-84	4.0	5.0	6.0	7.0	5.5
DP 17-9391	4.0	5.3	5.3	7.0	5.4
SECRETARIAT	3.7	5.0	6.3	6.7	5.4
EDGE	4.0	4.3	5.0	8.0	5.3
PIZZAZZ	4.0	5.0	5.3	6.7	5.3
SRX 4120	4.7	5.3	5.7	5.7	5.3
WVPB-R-82	4.0	5.0	5.3	6.3	5.2
LSD VALUE	4.5	5.3	3.2	8.0	2.7
C.V. (%)	20.8	19.7	15.4	20.4	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.

3/ RED THREAD RATED IN 2000.

TABLE 44.

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE  
AT PUYALLUP (TRAFFIC STUDY), WA 1/  
2000-03 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	APRIL	MAY	MEAN	NAME	APRIL	MAY	MEAN
CITATION FORE (PST-2BR)	6.0	5.7	5.8	GALLERY (MB 412)	5.3	4.0	4.7
MANHATTAN 4 (PST-2CRL)	6.0	5.7	5.8	LPR 98-143	4.7	4.7	4.7
LS 2100 (PST-2SBE)	6.0	5.3	5.7	MP107	5.0	4.3	4.7
BLAZER IV (PICK MDR)	5.3	5.7	5.5	PALMER III	4.3	5.0	4.7
GRAND SLAM 2L96 (PST-2L96)	5.7	5.3	5.5	PENNANT II	5.0	4.3	4.7
SALINAS (PST-2SLX)	5.3	5.3	5.3	PINNACLE II (BAR 9 B2)	4.7	4.7	4.7
SEVILLE II	5.3	5.3	5.3	PST-2M4	4.7	4.7	4.7
SPLENDID (MB 411)	5.7	5.0	5.3	SECRETARIAT	4.3	5.0	4.7
MP103	5.0	5.3	5.2	SUMMERSET (MB 413)	5.0	4.3	4.7
NEXUS	6.0	4.3	5.2	AMAZING (B1)	4.7	4.3	4.5
PST-2LA	6.0	4.3	5.2	BY-100	4.3	4.7	4.5
SR 4420 (SRX 4820)	5.3	5.0	5.2	CATHEDRAL II	4.3	4.7	4.5
ABT-99-4.965	5.0	5.0	5.0	COURAGE (MB 410)	4.3	4.7	4.5
BRIGHTSTAR II	5.3	4.7	5.0	DAZZLE (ABT-99-4.724)	5.0	4.0	4.5
CHARISMATIC (LTP 98-501)	4.7	5.3	5.0	DP 17-9391	4.3	4.7	4.5
GATOR 3 (CIS-PR-85)	5.0	5.0	5.0	EXTREME (JR-317)	4.3	4.7	4.5
INSPIRE (R8000)	5.0	5.0	5.0	HAWKEYE (SRX 4RHT)	4.7	4.3	4.5
IQ (CIS-PR-75)	5.0	5.0	5.0	KOKOMO (CIS-PR-69)	4.3	4.7	4.5
JET	4.7	5.3	5.0	LPR 98-144	4.3	4.7	4.5
PARAGON	5.0	5.0	5.0	MDP	4.3	4.7	4.5
PENTIUM (NJ-6401)	5.0	5.0	5.0	MONTEREY II (JR-187)	4.3	4.7	4.5
PICK PRNGS	5.0	5.0	5.0	MP88	4.7	4.3	4.5
PST-2JH	5.3	4.7	5.0	PARADIGM (APR 1236)	4.3	4.7	4.5
QUEST II (ABT-99-4.721)	5.0	5.0	5.0	PR 1-94 (PICK PR 1-94)	4.3	4.7	4.5
SR 4220 (SRX 4801)	5.0	5.0	5.0	PROMISE	4.3	4.7	4.5
SR 4350 (APR 1237)	5.3	4.7	5.0	PST-2CRR	5.0	4.0	4.5
STELLAR (CIS-PR-72)	5.3	4.7	5.0	RADIANT	4.3	4.7	4.5
ALLSPORT	5.0	4.7	4.8	SR 4500	5.0	4.0	4.5
APPLAUD (PENNINGTON-11301)	5.0	4.7	4.8	WVPB-R-84	4.3	4.7	4.5
CALYPSO II	4.7	5.0	4.8	ABT-99-4.115	4.0	4.7	4.3
CRUISER (ABT-99-4.709)	4.7	5.0	4.8	ABT-99-4.464	4.7	4.0	4.3
DLF-LDD	5.0	4.7	4.8	ABT-99-4.815	4.3	4.3	4.3
ICON (MB 414)	4.7	5.0	4.8	AFFINITY	4.3	4.3	4.3
LTP-ME	5.0	4.7	4.8	AFFIRMED	4.0	4.7	4.3
PACESETTER (6011)	4.7	5.0	4.8	ALL STAR2 (CIS-PR-78)	4.0	4.7	4.3
PASSPORT	5.0	4.7	4.8	APR 1235	4.0	4.7	4.3
PIZZAZZ	4.7	5.0	4.8	CHURCHILL	4.7	4.0	4.3
SUNKISSED (ABT-99-4.834)	4.7	5.0	4.8	FIESTA 3	4.0	4.7	4.3
TERRADYNE (A5C)	5.0	4.7	4.8	KOOS R-71	4.3	4.3	4.3
WILMINGTON	4.7	5.0	4.8	MEPY	4.7	4.0	4.3
APR 1231	5.0	4.3	4.7	PANTHER	4.3	4.3	4.3
ARRIVAL (CIS-PR-84)	4.7	4.7	4.7	PICK PR B-97	4.3	4.3	4.3
BRIGHTSTAR SLT (PST-2A6B)	5.0	4.3	4.7	PICK PR QH-97	4.3	4.3	4.3
CABO (CIS-PR-80)	4.7	4.7	4.7	PREMIER II	4.0	4.7	4.3
CAS-LP84	4.3	5.0	4.7	ABT-99-4.339	4.3	4.0	4.2
ELFKIN	5.0	4.3	4.7	ABT-99-4.560	4.0	4.3	4.2

TABLE 44. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS IN THE  
(CONT'D) AT PUYALLUP (TRAFFIC STUDY), WA 1/  
2000-03 DATA

NAME	RED THREAD RATINGS 1-9; 9=NO DISEASE 2/ 3/		
	APRIL	MAY	MEAN
ADMIRE (JR-151)	4.0	4.3	4.2
ASCEND	4.3	4.0	4.2
BARLENNIUM	4.0	4.3	4.2
CATALINA	4.3	4.0	4.2
CATALINA II (PST-CATS)	4.0	4.3	4.2
CHARGER II	4.0	4.3	4.2
DIVINE	4.0	4.3	4.2
DP 17-9496	4.3	4.0	4.2
EXACTA	4.3	4.0	4.2
JR-128	4.0	4.3	4.2
LINE DRIVE	4.0	4.3	4.2
LINN	4.3	4.0	4.2
MACH 1 (ROBERTS-627)	4.0	4.3	4.2
MAJESTY	4.3	4.0	4.2
MANHATTAN 3	4.7	3.7	4.2
PEARL II (EPD)	4.7	3.7	4.2
PICK EX2	4.3	4.0	4.2
PROSPORT (AG-P981)	4.3	4.0	4.2
RACER	4.3	4.0	4.2
ABT-99-4.600	4.0	4.0	4.0
APR 1232	4.0	4.0	4.0
APR 776	3.7	4.3	4.0
BUCCANEER	3.7	4.3	4.0
PLEASURE XL	4.0	4.0	4.0
PROTYME (ABT-99-4.625)	3.7	4.3	4.0
PROWLER (APR 777)	3.7	4.3	4.0
PST-2RT	4.0	4.0	4.0
RACER II (PICK RC2)	3.7	4.3	4.0
SKYHAWK	4.3	3.7	4.0
SRX 4120	3.7	4.3	4.0
DP LP-1	3.7	4.0	3.8
EP53	3.7	4.0	3.8
HEADSTART	4.0	3.7	3.8
SUPERSTAR (EP57)	4.0	3.7	3.8
WVPB-R-82	4.0	3.7	3.8
DP 17-9069	3.3	4.0	3.7
PHANTOM	3.7	3.7	3.7
PREMIER	3.7	3.7	3.7
RENAISSANCE (APR 1233)	3.7	3.3	3.5
EDGE	3.3	3.3	3.3
YATSUGREEN	3.7	3.0	3.3
APR 1234	3.0	3.3	3.2
LSD VALUE	1.4	1.8	1.2
C.V. (%)	15.7	16.0	13.4

- 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.  
3/ RED THREAD RATED IN 2001.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS  
 IN THE 1999 NATIONAL PERENNIAL RYEGRASS TEST  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	STATISTICS FOR ALL LOCATIONS						
	ALL LOCATIONS		SUM OF	HIGHEST	LOWEST	MAXIMUM	
	MEAN 1/	RANK 2/	RANKS 3/	RANK 4/	RANK 5/	RANK 6/	IN TOP 25% 7/
ABT-99-4.115	6.0	28	1222	24	7	100	42.9
ABT-99-4.339	5.9	52	1740	59	12	119	14.3
ABT-99-4.464	5.9	41	1401	37	3	116	25.0
ABT-99-4.560	6.0	31	1352	31	2	131	39.3
ABT-99-4.600	5.6	105	2455	104	37	121	0.0
ABT-99-4.815	5.7	78	2072	80	13	121	14.3
ABT-99-4.965	5.8	74	2014	74	4	131	14.3
ADMIRE (JR-151)	5.8	62	1722	57	6	109	25.0
AFFINITY	5.5	117	2483	107	7	130	10.7
AFFIRMED	6.0	34	1378	34	1	113	17.9
ALL STAR2 (CIS-PR-78)	6.2	9	864	8	3	96	64.3
ALLSPORT	5.5	113	2501	109	14	129	14.3
AMAZING (B1)	6.1	13	1003	14	5	104	57.1
APPLAUD (PENNINGTON-11301)	6.3	2	542	1	1	86	89.3
APR 1231	5.7	91	2167	86	23	129	10.7
APR 1232	5.7	89	2205	89	4	131	17.9
APR 1234	5.2	129	3268	131	52	132	0.0
APR 1235	5.6	99	2471	106	30	127	7.1
APR 776	5.7	87	2235	92	26	120	14.3
ARRIVAL (CIS-PR-84)	6.1	17	1031	16	5	106	53.6
ASCEND	5.8	70	2030	76	31	116	3.6
BARLENNIUM	5.9	46	1503	44	7	120	28.6
BLAZER IV (PICK MDR)	6.1	18	1094	20	5	127	53.6
BRIGHTSTAR II	5.9	53	1726	58	6	115	21.4
BRIGHTSTAR SLT (PST-2A6B)	6.0	29	1292	29	1	114	42.9
BUCCANEER	5.1	132	3278	132	19	132	3.6
BY-100	5.4	124	2743	119	35	129	0.0
CABO (CIS-PR-80)	6.0	36	1466	43	4	106	35.7
CALYPSO II	5.9	50	1627	49	2	118	21.4
CAS-LP84	5.6	107	2428	102	32	131	7.1
CATALINA	5.7	94	2117	84	13	132	17.9
CATALINA II (PST-CATS)	5.8	73	2016	75	5	125	10.7
CATHEDRAL II	5.7	88	2111	83	4	126	14.3
CHARGER II	5.7	93	2206	90	9	129	10.7
CHARISMATIC (LTP 98-501)	6.2	4	872	9	4	102	67.9
CHURCHILL	6.0	26	1242	26	2	105	42.9
CITATION FORE (PST-2BR)	6.2	10	943	11	1	98	60.7
COURAGE (MB 410)	5.9	42	1536	45	7	129	32.1
CRUISER (ABT-99-4.709)	5.8	72	2035	78	16	132	3.6
DAZZLE (ABT-99-4.724)	6.0	27	1374	33	1	127	35.7
DIVINE	5.8	66	1830	62	1	118	28.6
DLF-LDD	6.1	14	851	6	1	90	67.9
DP 17-9069	5.2	130	3129	130	31	131	3.7
DP 17-9391	5.2	127	2972	126	28	132	3.6
DP 17-9496	4.4	133	3576	133	26	133	3.6
DP LP-1	5.2	128	3086	129	51	132	0.0
EDGE	5.3	125	2887	125	13	130	3.6
ELFKIN	5.9	47	1464	42	8	113	28.6
EP53	5.5	115	2566	111	1	132	7.1

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) IN THE 1999 NATIONAL PERENNIAL RYEGRASS TEST  
 2000-03 DATA  
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	STATISTICS FOR ALL LOCATIONS						
	ALL LOCATIONS		SUM OF	HIGHEST	LOWEST	MAXIMUM	
	MEAN 1/	RANK 2/	RANKS 3/	RANK 4/	RANK 5/	RANK 6/	IN TOP 25% 7/
EXACTA	6.0	24	1240	25	1	126	50.0
EXTREME (JR-317)	5.7	92	2403	101	37	132	0.0
FIESTA 3	6.0	33	1277	27	9	92	35.7
GALLERY (MB 412)	5.9	44	1693	53	6	128	25.0
GATOR 3 (CIS-PR-85)	6.2	5	818	5	3	110	78.6
GRAND SLAM 2L96 (PST-2L96)	6.2	8	954	12	1	106	64.3
HAWKEYE (SRX 4RHT)	6.1	22	1048	19	2	89	53.6
HEADSTART	5.5	114	2625	115	6	132	10.7
ICON (MB 414)	5.8	61	1870	65	9	130	14.3
INSPIRE (R8000)	6.2	7	637	3	2	70	75.0
IQ (CIS-PR-75)	5.9	55	1722	57	10	132	21.4
JET	6.1	20	1045	18	1	126	53.6
JR-128	5.7	81	2148	85	25	122	3.6
KOKOMO (CIS-PR-69)	6.1	16	1105	21	2	116	50.0
KOOS R-71	5.4	122	2793	123	5	126	3.6
LINE DRIVE	5.7	83	2180	87	3	118	7.1
LINN	3.4	134	3654	134	65	134	0.0
LPR 98-143	5.5	119	2782	120	19	132	3.6
LPR 98-144	5.6	96	2319	96	4	131	14.3
LS 2100 (PST-2SBE)	5.9	51	1751	60	7	118	21.4
LTP-ME	5.6	111	2587	112	33	132	3.6
MACH 1 (ROBERTS-627)	6.4	1	594	2	1	95	78.6
MAJESTY	5.9	56	1673	52	2	133	25.0
MANHATTAN 3	5.7	85	2097	81	5	128	17.9
MANHATTAN 4 (PST-2CRL)	6.0	30	1383	35	2	124	46.4
MDP	5.6	102	2494	108	23	133	10.7
MEPY	5.6	108	2627	116	24	133	3.6
MONTEREY II (JR-187)	5.8	75	1937	72	5	132	14.3
MP103	5.6	110	2520	110	9	126	3.6
MP107	5.7	86	2100	82	2	130	14.3
MP88	5.7	82	1917	71	10	134	17.9
NEXUS	5.9	54	1787	61	12	125	32.1
PACESETTER (6011)	5.9	43	1439	40	1	116	28.6
PALMER III	5.8	76	2031	77	21	124	14.3
PANTHER	5.6	104	2312	95	7	132	10.7
PARADIGM (APR 1236)	5.6	95	2443	103	19	125	10.7
PARAGON	6.0	32	1428	38	12	118	39.3
PASSPORT	5.5	116	2600	113	20	132	3.6
PEARL II (EPD)	5.6	98	2360	98	26	124	3.6
PENNANT II	5.8	71	1848	63	1	131	32.1
PENTIUM (NJ-6401)	6.1	11	894	10	8	112	64.3
PHANTOM	5.6	103	2305	94	6	118	7.1
PICK EX2	5.6	112	2390	100	7	130	17.9
PICK PR B-97	5.8	64	1911	70	5	130	25.0
PICK PR QH-97	5.9	48	1571	46	11	119	17.9
PICK PRNGS	5.8	69	1877	66	10	120	7.1
PINNACLE II (BAR 9 B2)	6.1	15	1039	17	1	112	64.3
PIZZAZZ	6.3	3	811	4	1	125	71.4
PLEASURE XL	5.7	80	2182	88	32	126	3.6

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) IN THE 1999 NATIONAL PERENNIAL RYEGRASS TEST  
 2000-03 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/
PR 1-94 (PICK PR 1-94)	5.7	77	2235	92	12	132	10.7
PREMIER	5.4	123	2787	122	13	129	7.1
PREMIER II	6.0	37	1444	41	3	118	35.7
PROMISE	5.8	60	1879	67	13	127	21.4
PROSPORT (AG-P981)	5.4	120	2878	124	33	131	3.6
PROTYME (ABT-99-4.625)	5.6	109	2704	117	16	131	3.6
PROWLER (APR 777)	5.6	100	2357	97	10	130	7.1
PST-2CRR	5.7	79	1939	73	2	117	21.4
PST-2JH	5.9	57	1627	49	8	107	25.0
PST-2LA	5.9	58	1672	51	6	134	25.0
PST-2M4	5.9	59	1579	47	3	127	17.9
PST-2RT	5.8	65	1701	54	7	122	25.0
QUEST II (ABT-99-4.721)	6.1	21	1179	22	1	122	53.6
RACER	5.6	97	2467	105	8	130	14.3
RACER II (PICK RC2)	5.9	40	1437	39	2	120	28.6
RADIANT	5.9	49	1642	50	9	115	32.1
RENAISSANCE (APR 1233)	5.7	90	2260	93	19	119	10.7
SALINAS (PST-2SLX)	5.9	39	1358	32	13	102	35.7
SECRETARIAT	5.7	84	2066	79	2	120	14.3
SEVILLE II	6.1	19	988	13	11	81	57.1
SKYHAWK	5.5	118	2739	118	28	130	3.6
SPLENDID (MB 411)	6.0	38	1398	36	5	102	32.1
SR 4220 (SRX 4801)	6.2	6	860	7	1	112	67.9
SR 4350 (APR 1237)	5.8	68	1849	64	11	114	17.9
SR 4420 (SRX 4820)	6.1	12	1005	15	2	100	53.6
SR 4500	6.0	25	1204	23	3	126	46.4
SRX 4120	5.6	101	2361	99	18	129	7.1
STELLAR (CIS-PR-72)	6.0	35	1348	30	3	122	46.4
SUMMERSET (MB 413)	5.8	63	1898	69	12	128	21.4
SUNKISSED (ABT-99-4.834)	6.0	23	1292	29	2	116	46.4
SUPERSTAR (EP57)	5.6	106	2601	114	42	130	0.0
TERRADYNE (A5C)	5.9	45	1706	55	10	123	25.0
WILMINGTON	5.8	67	1884	68	10	122	14.3
WVPB-R-82	5.2	126	2976	127	29	133	3.6
WVPB-R-84	5.4	121	2784	121	7	131	3.6
YATSUGREEN	5.1	131	3042	128	17	134	3.6

LSD VALUE

0.2

C.V. (%)

9.4

\*/ 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.