

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 American Sod Producers Association, one member from the United States Golf Association (USGA) Green Section, one member from the Turfgrass Breeders Association, an executive director and a national program coordinator. 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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CONTENTS

1994 National Perennial Ryegrass Test - 1995-98 data

LOCATIONS SUBMITTING DATA FOR 1995-98.....1

NATIONAL PERENNIAL RYEGRASS TEST, 1994 - Entries and Sponsors.....2

Table A - 1995-98 Locations, Site Descriptions and Management Practices
in the 1994 National Perennial Ryegrass Test.....3

Table B - Locations and Data Collected in 1995-98.....4

Table 1 - Mean Turfgrass Quality Ratings of Perennial Ryegrass Cultivars
at Thirty Locations in the U.S. and Canada.....8

Table 2 - Mean Turfgrass Quality Ratings of Perennial Ryegrass Cultivars
for Each Month Grown at Thirty Locations in the
U.S. and Canada.....12

Table 3 - Ranking of Mean Turfgrass Quality Ratings of Perennial
Ryegrass Cultivars at Thirty Locations in the
U.S. and Canada.....14

Table 4 - Mean Turfgrass Quality Ratings of Perennial Ryegrass Cultivars
for Each Year Grown in the U.S. and Canada.....18

Table 5 - Ranking of Mean Turfgrass Quality Ratings of Perennial
Ryegrass Cultivars for Each Year Grown in the
U.S. and Canada.....20

Table 6 - Genetic Color Ratings of Perennial Ryegrass Cultivars.....22

Table 7 - Spring Greenup Ratings of Perennial Ryegrass Cultivars.....24

Table 8 - Leaf Texture Ratings of Perennial Ryegrass Cultivars.....26

Table 9 - Wear Tolerance Ratings of Perennial Ryegrass Cultivars.....28

Table 10- Seedling Vigor Ratings of Perennial Ryegrass Cultivars.....29

Table 11- Spring Density Ratings of Perennial Ryegrass Cultivars.....31

Table 12- Summer Density Ratings of Perennial Ryegrass Cultivars.....33

Table 13- Fall Density Ratings of Perennial Ryegrass Cultivars.....35

Table 14- Percent Living Ground Cover (Spring) Ratings of Perennial
Ryegrass Cultivars.....37

Table 15- Percent Living Ground Cover (Summer) Ratings of Perennial
Ryegrass Cultivars.....39

CONTENTS (continued)

Table 16- Percent Living Ground Cover (Fall) Ratings of Perennial Ryegrass Cultivars.....	41
Table 17- Winter Color Ratings of Perennial Ryegrass Cultivars.....	43
Table 18- Percent Winter Kill Ratings of Perennial Ryegrass Cultivars.....	44
Table 19- Winter Kill Ratings of Perennial Ryegrass Cultivars.....	45
Table 20- Drought Tolerance (Wilting) Ratings of Perennial Ryegrass Cultivars.....	46
Table 21- Thatch Measurements of Perennial Ryegrass Cultivars.....	47
Table 22- Pink Snow Mold Ratings of Perennial Ryegrass Cultivars.....	48
Table 23- Leaf Spot Ratings of Perennial Ryegrass Cultivars.....	49
Table 24- Dollar Spot Ratings of Perennial Ryegrass Cultivars.....	50
Table 25- Red Thread Ratings of Perennial Ryegrass Cultivars.....	52
Table 26- Brown Patch Ratings of Perennial Ryegrass Cultivars.....	54
Table 27- Pythium Blight Ratings of Perennial Ryegrass Cultivars.....	56
Table 28- Summer (August) Color Ratings of Perennial Ryegrass Cultivars....	57
Table 29- Fall (November) Color Ratings of Perennial Ryegrass Cultivars....	58
Table 30- Winter Density Ratings of Perennial Ryegrass Cultivars.....	59
Table 31- Density (May) Ratings of Perennial Ryegrass Cultivars in the Low Mown Strips.....	60
Table 32- Percent Crabgrass (July) Ratings of Perennial Ryegrass Cultivars in the Low Mown Strips.....	61
Table 33- Percent Green Cover (August) Ratings of Perennial Ryegrass Cultivars in the Low Mown Strips.....	62
Table 34- Leaf Rust Ratings of Perennial Ryegrass Cultivars.....	63
Table 35- Percent Grey Leaf Spot Ratings of Perennial Ryegrass Cultivars.....	64
Table 36- Percent Patch Disease Ratings of Perennial Ryegrass Cultivars....	65
Table 37- Plant Height Measurements of Perennial Ryegrass Cultivars.....	66
Table 38- Mowing Quality Ratings of Perennial Ryegrass Cultivars.....	67

CONTENTS (continued)

Table 39- Percent Brown Patch/Dollar Spot Ratings of Perennial Ryegrass Cultivars.....	68
Table 40- Percent Brown Patch Ratings of Perennial Ryegrass Cultivars at Fayetteville, AR.....	69
Table 41- Brown Patch Ratings of Perennial Ryegrass Cultivars at Orono, ME.....	70
Table 42- Leaf Spot Ratings of Perennial Ryegrass Cultivars at Orono, ME...	72
Table 43- Leaf Spot Ratings of Perennial Ryegrass Cultivars at Puyallup, WA.....	74
Table 44- Percent Red Thread Ratings of Perennial Ryegrass Cultivars at Lexington, KY.....	76
Table 45- Percent Dollar Spot Ratings of Perennial Ryegrass Cultivars at Lexington, KY.....	77

LOCATIONS SUBMITTING DATA FOR 1995-98

<u>State</u>	<u>Location</u>	<u>Code</u>
Arkansas	Fayetteville (Full sun)	AR1
British Columbia	Vancouver	BC1
District of Columbia	Washington Monument Grounds	DC1
Georgia	Griffin	GA1
Iowa	Ames	IA1
Illinois	Urbana	IL1
Illinois	Carbondale	IL2
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Massachusetts	Amherst	MA1
Maryland	Beltsville (High mowing)	UB1
Maryland	Beltsville (Low mowing)	UB2
Maryland	Silver Spring	MD1
Maine	Orono	ME1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
Missouri	St. Louis	MO3
Nebraska	Lincoln	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
Ohio	Columbus	OH1
Oklahoma	Stillwater	OK1
Pennsylvania	University Park	PA1
Quebec	Quebec	QE1
Rhode Island	Kingston	RI1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Puyallup	WA3
Wisconsin	Madison	WI1

1994 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
1	Elf	Bailey Seed & J. W. Jenks Co.	51	Repell III (LRF-94-C7)	Agribiotech, Inc.
2	Dancer	International Marketing Service	52	Prelude III (LRF-94-B6)	Agribiotech, Inc.
3	BAR Er 5813	Barenbrug Holland	53	Head Start (Pick PR 84-91)	Roberts Seed Co.
4	DSV NA 9401	Deutsche Saatveredelung	54	Blazer III (Pick 928)	Pickseed West, Inc.
5	DSV NA 9402	Deutsche Saatveredelung	55	Assure	LESCO, Inc.
6	Achiever	O. M. Scott & Sons	56	Advantage	LESCO, Inc.
7	APR 066	Advanta Seeds West, Inc.	57	Legacy II (LESCO-TWF)	LESCO, Inc.
8	ASP400 (APR 106)	Advanta Seeds West, Inc.	58	Williamsburg	LESCO, Inc.
9	APR 124	Advanta Seeds West, Inc.	59	Riviera II	Roberts Seed Co.
10	APR 131	Advanta Seeds West, Inc.	60	Premier II (BAR USA 94-II)	Barenbrug USA
11	Precision	Advanta Seeds West, Inc.	61	Protocol (Kooos 93-3)	J. R. Kooos & Sons
12	Calypso II	Roberts Seed Co.	62	Linn	Standard Entry
13	Laredo	Turf Merchants, Inc.	63	Stallion Select	Agribiotech, Inc.
14	Accent	Medalist America	64	Panther (ZPS-PR1)	Zajac Performance Seeds
15	Caddieshack (MED 5071)	Medalist America	65	Figaro	DLF/Trifolium
16	Top Gun (J-1703)	Jacklin Seed	66	DLP 1305	DLF/Trifolium
17	Monterey (J-1706)	Jacklin Seed Co.	67	Nine-O-One	Cascade International Seed Co.
18	Edge	Pickseed West, Inc.	68	SR 4010 (SRX 4010)	Seed Research of OR
19	Cutter	Pickseed West, Inc.	69	SR 4200	Seed Research of OR
20	Express	Pickseed West, Inc.	70	SR 4400 (SRX 4400)	Seed Research of OR
21	Esquire	Willamette Seed Co.	71	Omni	Royal Seeds
22	Vivid	Willamette Seed Co.	72	Night Hawk	Forbes Seed & Grain, Inc.
23	WX3-91	Agribiotech, Inc.	73	Buccaneer II (WVPB 92-4)	TAN-Ag.
24	WX3-93	Agribiotech, Inc.	74	Koos 93-6	J. R. Kooos & Sons
25	Stardance (PST-2FE)	LESCO, Inc.	75	PS-D-9	ProSeeds Marketing
26	Sonata (PST-2R3)	Pennington Seed, Inc.	76	Palmer III (LRF-94-MRH)	Agribiotech, Inc.
27	Chaparral (PST-2DLM)	Pure-Seed Testing, Inc.	77	Sunshine (Pick Lp 102-92)	Pickseed West, Inc.
28	Catalina (PST-GH-94)	Pure-Seed Testing, Inc.	78	CAS-LP23	Cascade International Seed Co.
29	Citation III (PST-2DGR)	Pure-Seed Testing, Inc.	79	Secretariat (RPBD)	Grasslands West
30	Brightstar II (PST-2MB)	Turf Seed, Inc.	80	PST-2CB	Turf-Seed, Inc.
31	Wind Star (PST-28M)	Pennington Seed, Inc.	81	Pennfine	Standard Entry
32	Roadrunner (PST-2ET)	Turf-Seed, Inc.	82	Morning Star	Pennington Seed, Inc.
33	Manhattan 3	Manhattan Rye Growers Assoc.	83	Saturn	Standard Entry
34	Prizm	Zajac Performance Seeds	84	Imagine	Agribiotech, Inc.
35	Navajo	Turf-Seed, Inc.	85	Pegasus	Agribiotech, Inc.
36	Saturn II (ZPS-2ST)	Zajac Perf. Seeds	86	Blackhawk (TMI-EXFLP94)	Turf Merchants, Inc.
37	Omega 3 (ZPS-2DR-94)	Zajac Perf. Seeds	87	Nobility	Ampac Seed Co.
38	Stallion Supreme (PSI-E-1)	Agribiotech, Inc.	88	Divine	Burlingham
39	Spell Bound (WVPB-93-KFK)	Landmark Seed Co.	89	Excel (MB 1-5)	Burlingham
40	WVPB-PR-C-2	Willamette Valley Plt .Breeders	90	Wizard (MB 41)	Burlingham
41	MVF-4-1	Mid-Valley Farms	91	Pennant II (MB 42)	Agribiotech, Inc.
42	Academy (PC-93-1)	Pratum Co-op	92	Majesty (MB 43)	Burlingham
43	Passport (PST-2FF)	Roberts Seed Co.	93	Radiant (MB 44)	Burlingham
44	Quickstart	Turf-Seed, Inc.	94	Ascend (MB 45)	Burlingham
45	MardiGras (ZPS-2NV)	Zajac Performance Seeds	95	Wind Dance (MB 46)	Pennington Seed, Inc.
46	Brightstar	Turf-Seed, Inc.	96	Line Drive (MB 47)	LESCO, Inc.
47	CIS-MBH (ISI-MHB)	Cebeco International Seeds, Inc.			
48	R2 (ISI-R2)	Cebeco International Seeds, Inc.			
49	Top Hat	Cebeco International Seeds, Inc.			
50	LRF-94-C8	Agribiotech, Inc.			

TABLE A.

1995-98 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1994 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
AR1	SILT LOAM AND SILT	6.1-6.5	151-270	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
BC1	SANDY LOAM	6.1-6.5	271-450	241-375	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
DC1	-	-	-	-	-	-	-	-
GA1	SANDY CLAY LOAM	5.6-6.0	61-150	151-240	4.1-5.0	FULL SUN	2.1-2.5	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	2.1-2.5	TO PREVENT STRESS
IL2	SILTY CLAY LOAM	6.1-6.5	271-450	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
IN1	SILT LOAM AND SILT	6.6-7.0	61-150	376-500	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
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	1.1-1.5	ONLY DURING SEVERE STRESS
MA1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MD1	SANDY LOAM	6.1-6.5	151-270	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
ME1	-	-	-	-	-	-	-	-
MI1	SANDY LOAM	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
MO1	SILTY CLAY LOAM	5.6-6.0	61-150	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
MO3	SILTY CLAY LOAM	6.6-7.0	61-150	151-240	4.1-5.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
NE1	SILTY CLAY LOAM	7.1-7.5	0-60	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SANDY LOAM	6.1-6.5	151-270	241-375	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	451+	376-500	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OH1	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
OK1	SILTY CLAY LOAM	6.6-7.0	61-150	501+	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
PA1	SILT LOAM AND SILT	6.6-7.0	61-150	0-150	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
QE1	LOAMY SAND	7.1-7.5	0-60	0-150	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
RI1	SILT LOAM AND SILT	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
UB1	SILT LOAM AND SILT	5.6-6.0	151-270	151-240	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
UB2	SILT LOAM AND SILT	6.1-6.5	151-270	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
VA1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	5.1-6.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
WA1	SILT LOAM AND SILT	6.1-6.5	151-270	501+	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
WA3	SANDY LOAM	5.6-6.0	0-60	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
WI1	SILT LOAM AND SILT	7.1-7.5	451+	501+	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1995-98

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
AR1			X	X	X	X	X	X	X	X	X		X		X
BC1	X	X	X	X	X	X	X		X	X	X		X		
DC1					X			X	X	X		X			
GA1	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	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	X
KS1				X	X	X	X	X	X	X			X	X	X
KY1			X	X	X	X	X	X	X	X			X	X	X
MA1				X	X	X	X	X	X	X			X	X	
MD1				X	X	X	X	X	X	X			X	X	X
ME1					X	X	X	X	X	X	X		X		
MI1				X	X	X	X	X	X	X	X		X	X	X
MO1				X	X	X	X	X	X	X			X	X	X
MO3				X	X	X	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	X
NJ2	X	X	X	X	X	X	X	X	X	X	X	X	X		
OH1					X	X	X	X	X	X	X		X	X	X
OK1				X	X	X	X	X	X	X	X		X	X	X
PA1					X	X	X	X	X	X			X		
QE1				X	X	X	X	X	X	X	X	X	X	X	X
RI1				X	X	X	X	X	X	X	X		X	X	X
UB1				X	X	X	X	X	X	X	X		X	X	X
UB2				X	X	X	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	X
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WI1					X	X	X	X	X	X			X		

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 1995-98

LOCATION	WEAR TOLERANCE	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	THATCH MEASUREMENT	FUSARIUM PATCH	LEAF SPOT	DOLLAR SPOT
AR1		X	X	X	X	X	X	X	X	X					
BC1		X													
DC1															
GA1			X	X	X	X	X	X							
IA1															
IL1		X		X	X										
IL2		X													
IN1		X			X										X
KS1		X									X				
KY1		X						X							
MA1		X													
MD1		X													
ME1						X	X						X	X	
MI1															
MO1				X											
MO3		X	X	X	X	X	X	X							
NE1		X	X	X	X					X					
NJ1	X												X		X
NJ2															
OH1															X
OK1		X	X	X	X	X	X	X	X						X
PA1		X	X	X	X										X
QE1			X	X	X	X	X	X			X	X			
RI1		X													
UB1		X												X	X
UB2		X				X	X	X						X	X
VA1															
WA1		X													
WA3		X	X	X	X	X	X	X	X					X	
WI1															

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 1995-98

LOCATION	RED THREAD	BROWN PATCH	FUSARIUM BLIGHT	PYTHIUM BLIGHT	PERCENT CRABGRASS LOW MOW	P.RYE DENSITY LOW MOW	% P.RYE GREEN COVER LOW MOW	SUMMER COLOR AUGUST	FALL COLOR NOVEMBER	PERCENT RED THREAD	WINTER DENSITY	LEAF RUST	% GREY LEAF SPOT	PERCENT PATCH DISEASE	PLANT HEIGHT	MOWING QUALITY
AR1			X		X	X	X					X				
BC1	X															
DC1																
GA1								X								
IA1																
IL1		X														
IL2				X												
IN1	X	X														
KS1																
KY1										X				X		
MA1																
MD1													X			
ME1		X		X			X									
MI1																
MO1		X														
MO3																
NE1		X														
NJ1	X	X														
NJ2																
OH1																
OK1		X							X							
PA1	X															
QE1																
RI1	X															
UB1	X															
UB2																
VA1	X	X														
WA1																
WA3											X				X	
WI1																X

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 1995-98

LOCATION	PERCENT BROWN PATCH DOLLAR SPOT	BROWN PATCH RATINGS			LEAF SPOT RATINGS					PERCENT RED THREAD		PERCENT DOLLAR SPOT RATINGS				
		JULY	AUGUST	SEPTEMBER	JANUARY	FEBRUARY	MARCH	APRIL	JUNE	JULY	NOVEMBER	JUNE 2	JUNE 17	JULY 29	AUGUST 7	AUGUST 21
AR1		X		X												
BC1																
DC1																
GA1																
IA1																
IL1																
IL2																
IN1																
KS1																
KY1	X										X	X	X	X	X	
MA1																
MD1																
ME1		X	X	X				X	X	X						
MI1																
MO1																
MO3																
NE1																
NJ1																
NJ2																
OH1																
OK1																
PA1																
QE1																
RI1																
UB1																
UB2																
VA1																
WA1																
WA3						X	X	X	X							
WI1																

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
 1995-98 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	AR1	BC1	DC1	GA1	IA1	IL1	IL2	IN1	KS1	KY1	MA1	MD1	ME1	MI1	MO1	MO3
* PALMER III (LRF-94-MPRH)	5.7	5.4	5.0	4.2	6.4	6.3	6.2	6.5	6.4	7.6	6.1	5.9	8.0	6.1	5.4	7.1
* BRIGHTSTAR II (PST-2M3)	6.3	4.6	4.8	4.2	5.4	5.3	5.2	6.8	6.8	8.2	6.0	6.4	7.0	5.8	5.8	7.2
* SECRETARIAT (RPBD)	6.1	5.1	5.3	4.4	6.7	5.8	6.3	6.4	6.3	7.6	6.5	6.0	7.3	5.8	5.6	6.5
* CALYPSO II	5.7	5.7	5.2	4.1	6.1	5.7	6.4	6.7	6.4	7.4	5.8	6.3	7.3	5.7	5.4	7.0
* PREMIER II (BAR USA 94-II)	6.2	5.7	4.7	4.1	6.7	5.3	5.4	6.7	6.4	8.0	6.0	6.0	7.4	5.5	5.6	6.8
* PENNANT II (MB 42)	7.1	4.3	5.3	4.2	6.5	5.6	6.8	6.4	6.2	8.2	5.1	5.8	7.1	5.8	5.6	6.8
* MONTEREY (J-1706)	4.9	5.3	5.4	4.1	6.7	5.8	5.9	6.9	6.2	7.6	5.8	6.0	7.1	5.9	5.7	6.7
RADIANT (MB 44)	7.3	4.9	5.0	4.1	6.1	5.6	5.4	6.2	6.4	8.1	5.9	5.9	6.9	5.5	5.9	6.6
* LINE DRIVE (MB 47)	5.3	5.5	5.0	4.3	6.6	5.9	5.7	6.4	6.2	7.9	6.0	5.9	7.0	5.3	5.6	7.1
* ACCENT	6.4	6.0	6.0	3.9	6.5	5.9	5.5	6.7	6.1	7.2	5.5	6.2	7.1	5.6	5.8	6.5
* PANTHER (ZPS-PR1)	5.0	5.5	5.3	4.0	6.3	6.1	5.0	6.6	6.4	7.8	5.6	5.7	7.3	6.0	5.6	6.8
* CATALINA (PST-GH-94)	6.3	5.0	5.1	4.1	6.3	5.6	6.0	6.5	6.2	7.6	6.3	6.1	7.2	5.4	5.7	6.6
LRF-94-C8	6.4	4.5	5.0	3.9	5.7	5.2	6.0	6.7	6.6	8.2	6.0	5.4	8.1	5.8	5.4	7.5
* SONATA (PST-2R3)	5.6	5.8	5.5	4.1	6.5	6.2	6.3	6.5	5.7	7.4	5.3	5.9	6.9	6.2	6.1	6.9
ASCEND (MB 45)	5.7	4.8	5.0	4.1	6.3	5.5	6.0	6.4	6.0	8.0	5.7	5.9	7.4	5.5	5.6	7.0
* MAJESTY (MB 43)	6.5	4.6	5.2	4.0	6.2	6.0	5.9	6.2	6.0	7.9	5.9	6.0	7.2	5.9	5.8	6.7
* TOP HAT	5.9	5.4	5.2	4.1	5.9	5.8	5.5	6.7	6.2	7.8	5.9	6.2	7.6	5.8	5.9	6.2
* PRELUDE III (LRF-94-B6)	6.3	4.6	4.9	4.2	5.4	5.0	5.9	6.5	6.8	8.3	6.0	5.8	8.1	5.5	5.7	7.2
* PRIZM	5.4	5.1	5.0	4.1	6.1	5.2	5.8	6.4	6.4	7.6	6.0	6.2	6.5	5.7	6.0	6.9
* CIS-MBH (ISI-MHB)	5.0	6.0	5.1	4.2	6.3	5.4	5.0	6.7	6.2	7.5	5.5	5.8	7.3	5.9	5.6	6.5
* CADDIESHACK (MED 5071)	6.2	4.6	4.9	4.0	6.5	5.1	5.7	6.6	6.2	7.6	5.5	5.9	6.9	5.9	5.6	6.8
* LAREDO	4.4	5.3	4.8	3.9	6.1	5.3	5.5	6.5	6.2	7.4	5.7	6.2	7.4	5.8	5.6	6.5
* REPELL III (LRF-94-C7)	5.6	4.8	4.9	3.8	5.4	5.3	6.4	6.6	6.7	8.4	5.5	5.7	8.3	5.3	6.4	6.8
* MANHATTAN 3	4.9	5.4	4.8	4.1	6.5	5.6	5.7	6.4	6.3	7.8	5.5	5.8	6.9	5.6	5.8	6.5
* SR 4200	5.5	5.5	5.6	4.0	6.3	6.1	5.5	6.5	5.9	7.5	5.9	5.9	6.8	5.8	5.4	6.2
* PASSPORT (PST-2FF)	5.8	5.9	5.4	3.9	6.1	5.8	4.8	6.4	6.0	7.6	5.3	6.0	6.2	6.1	5.4	6.6
* ESQUIRE	5.7	5.1	5.4	4.0	6.2	5.5	5.3	6.4	6.2	7.6	5.8	6.2	7.2	6.0	5.6	6.6
* SUNSHINE (PICK LP 102-92)	5.7	5.0	4.6	3.9	6.1	5.4	5.4	6.3	6.2	7.8	6.3	5.5	7.1	5.9	5.6	6.5
* BRIGHTSTAR	5.5	4.9	5.5	3.9	6.0	5.4	4.5	6.6	6.2	7.4	6.0	6.2	6.8	5.2	6.2	6.5
* DIVINE	4.6	4.8	4.8	3.9	6.6	5.1	6.1	6.3	6.2	7.8	5.8	6.2	7.4	5.8	5.5	5.7
* BLACKHAWK (TMI-EXFLP94)	5.5	5.9	5.0	4.3	6.6	5.8	5.9	6.4	6.0	7.3	6.0	5.9	6.2	6.1	5.4	6.6
* MARDIGRAS (ZPS-2NV)	5.2	5.4	4.4	4.0	6.5	5.5	5.2	6.2	6.2	7.7	6.0	5.9	7.4	5.7	5.4	6.7
* WIND DANCE (MB 46)	6.3	4.9	4.8	4.2	5.3	5.3	5.4	6.5	6.5	8.0	5.6	5.9	7.2	5.7	5.6	6.4
* IMAGINE	5.1	4.7	4.8	4.0	5.7	5.7	6.0	6.5	6.4	7.8	5.1	6.0	7.6	5.5	5.3	7.1
* SR 4400 (SRX 4400)	5.8	5.1	5.3	4.2	6.6	6.3	5.7	6.8	6.1	7.3	5.9	5.9	6.8	5.6	5.7	6.1
* BLAZER III (PICK 928)	5.0	5.3	5.1	4.0	6.3	5.9	5.7	6.3	6.2	7.3	6.0	5.8	7.2	5.8	5.5	6.3
* ACHIEVER	5.4	5.3	5.3	4.0	6.3	6.1	5.5	5.8	6.4	7.1	5.7	5.7	7.2	6.1	5.8	6.3
* CHAPARRAL (PST-2DLM)	6.1	5.0	5.0	4.2	6.1	4.7	5.5	6.6	6.1	7.8	5.2	5.8	7.8	5.7	5.2	6.4
WX3-93	5.1	5.2	5.0	3.9	6.2	5.6	4.7	6.5	6.2	7.4	6.3	6.2	6.2	5.9	6.0	6.9
* HEAD START (PICK PR 84-91)	4.9	4.8	5.3	3.8	5.8	5.2	5.6	6.4	6.2	7.5	5.9	6.0	7.2	5.7	5.9	6.4
* ASSURE	5.9	5.2	5.4	4.0	6.4	5.7	5.5	6.0	5.9	7.3	5.9	5.7	6.9	6.0	5.7	6.0
* OMEGA3 (ZPS-2DR-94)	4.7	5.4	5.2	4.1	6.6	4.7	5.0	6.4	6.0	7.3	6.0	6.0	6.9	6.0	5.4	6.3
* WIND STAR (PST-28M)	5.0	5.5	5.2	3.8	6.6	6.0	5.8	6.3	6.4	7.4	6.1	5.6	6.5	5.9	5.8	6.3
* TOP GUN (J-1703)	6.0	5.1	5.0	3.7	5.7	5.4	5.5	6.4	6.2	7.6	5.5	5.8	7.1	5.6	5.9	6.3
* RIVIERA II	6.0	5.7	4.5	4.1	6.2	5.8	4.9	6.1	6.2	7.4	5.3	6.1	7.0	5.9	5.5	6.2
* WIZARD (MB 41)	5.9	4.9	4.6	4.0	6.4	5.3	5.8	6.0	5.8	7.6	5.5	5.8	6.8	5.7	5.5	6.5
* EDGE	5.6	5.6	5.6	4.1	6.3	5.7	6.2	6.1	6.0	7.2	5.2	6.2	6.8	5.5	5.8	6.3
* OMNI	5.4	5.2	5.3	4.1	6.1	5.4	4.2	6.7	6.2	7.2	5.9	5.7	7.3	5.8	5.4	6.4
* SATURN II (ZPS-2ST)	5.7	5.4	5.1	3.8	6.3	5.3	5.4	6.2	6.0	7.5	5.8	6.1	6.3	5.9	5.4	6.1
* R2 (ISI-R2)	5.1	5.6	5.8	4.2	6.5	5.9	5.0	6.5	6.2	7.3	5.9	5.8	6.7	5.9	6.0	6.0
* CUTTER	5.2	5.2	5.0	4.0	6.3	5.6	5.5	6.2	6.2	7.5	5.2	6.0	6.6	5.5	5.6	6.3
* STALLION SUPREME (PSI-E-1)	6.0	6.1	4.8	4.0	6.1	5.4	5.3	6.2	6.1	7.3	5.8	6.0	6.8	6.2	5.1	6.3

TABLE 1. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
1995-98 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	AR1	BC1	DC1	GA1	IA1	IL1	IL2	IN1	KS1	KY1	MA1	MD1	ME1	MI1	MO1	MO3
* CITATION III (PST-2DGR)	5.3	5.0	5.4	3.8	5.8	4.9	5.2	6.1	6.2	7.6	6.0	5.6	7.0	5.2	5.3	6.9
* ROADRUNNER (PST-2ET)	5.3	4.8	4.6	4.0	5.8	5.6	5.1	5.8	6.3	7.7	5.8	5.6	7.0	6.0	5.4	7.2
* VIVID	5.7	5.5	4.8	4.2	6.5	5.5	5.5	6.2	6.0	7.3	5.1	6.0	6.5	6.0	5.6	6.3
* ELF	4.5	5.5	5.8	3.8	6.3	5.6	4.4	5.7	5.9	7.1	5.2	5.7	7.0	5.6	5.8	6.2
PS-D-9	5.2	5.8	4.9	4.1	6.3	5.9	5.8	6.3	5.8	7.1	5.7	5.9	6.3	5.5	5.7	6.1
* MORNING STAR	5.8	5.5	5.8	4.0	6.0	5.7	5.1	5.7	5.7	7.5	5.6	6.0	6.3	5.6	5.6	6.1
* ADVANTAGE	4.9	5.5	5.1	3.9	6.2	5.2	5.6	6.0	6.0	7.6	5.8	5.7	7.1	5.6	5.2	6.1
* ACADEMY (PC-93-1)	5.4	5.6	5.1	4.2	6.3	5.7	4.9	6.0	5.9	7.2	5.5	5.9	6.6	6.0	5.2	6.1
* EXCEL (MB 1-5)	5.6	5.1	4.4	3.7	6.5	4.8	4.5	6.0	6.2	7.5	5.8	5.7	7.6	5.5	5.4	6.0
* SPELL BOUND (WVPB-93-KFK)	5.5	5.1	5.5	4.1	6.5	5.6	5.1	6.1	5.8	7.1	5.3	5.9	6.7	5.5	5.8	6.1
KOOS 93-6	4.9	4.7	5.5	4.0	6.4	5.9	5.2	5.9	5.9	7.0	5.6	5.9	6.6	6.1	5.3	5.9
MVF-4-1	5.4	5.3	4.7	4.2	6.3	6.0	4.9	6.4	5.9	7.2	5.8	5.8	6.6	5.9	5.8	6.1
* PRECISION	4.0	6.0	5.7	4.2	6.3	5.7	4.8	6.1	5.8	7.1	5.2	5.8	6.1	6.3	5.0	6.5
* SR 4010 (SRX 4010)	5.3	5.8	5.8	4.1	6.5	5.5	5.0	6.2	5.8	7.1	5.4	5.9	6.1	5.8	5.6	6.1
* ASP400 (APR 106)	4.3	5.2	5.8	4.1	6.3	5.3	4.4	6.0	5.9	6.9	5.3	6.2	6.4	5.8	5.7	6.3
* PROTOCOL (KOOS 93-3)	5.8	5.9	5.2	3.9	6.1	5.3	5.0	5.8	5.7	7.2	5.5	5.8	7.0	5.9	5.5	6.0
* BUCCANEER II (WVPB 92-4)	5.4	5.8	5.5	3.9	6.4	6.0	5.1	5.7	5.8	6.7	5.7	5.6	6.9	5.9	5.8	5.9
* QUICKSTART	5.2	5.2	5.4	4.0	6.1	5.7	5.5	6.1	5.9	7.2	5.5	5.9	6.3	5.8	5.0	5.9
* NOBILITY	5.4	5.7	5.4	4.0	6.4	5.3	5.6	6.0	6.1	7.0	5.3	5.9	5.9	5.8	5.4	5.8
APR 124	4.5	5.8	5.3	4.1	6.1	4.7	4.9	6.2	6.1	7.0	5.0	6.1	6.5	6.2	5.5	6.4
* LEGACY II (LESCO-TWF)	4.5	5.1	4.7	3.7	6.1	4.9	5.9	5.9	5.9	7.8	5.0	5.5	6.6	5.4	5.2	6.6
* STALLION SELECT	5.3	5.6	5.5	3.9	6.4	5.1	4.6	5.7	6.0	7.1	5.5	5.5	6.4	5.9	5.7	6.0
* NIGHT HAWK	5.6	5.5	5.6	3.8	6.1	5.2	3.8	5.9	5.9	6.9	5.4	5.6	6.6	6.1	5.4	6.2
CAS-LP23	5.8	5.1	4.5	4.0	6.3	5.2	5.0	5.6	5.9	7.1	5.8	5.4	7.1	5.6	5.3	6.3
PST-2CB	5.1	5.6	5.7	4.1	6.2	5.8	4.3	5.6	5.7	7.2	5.5	5.6	6.2	5.8	5.5	6.2
WX3-91	4.6	4.9	4.8	4.0	5.4	5.5	5.1	5.9	6.0	7.3	5.2	6.0	6.4	5.8	5.3	6.5
* EXPRESS	4.7	5.5	5.2	3.9	6.5	5.3	5.7	6.0	5.8	7.1	5.2	6.1	6.0	6.0	5.3	6.0
BAR ER 5813	5.7	5.4	5.0	3.8	6.3	5.1	4.5	6.0	5.7	6.6	6.3	5.7	6.8	5.2	5.3	5.3
* WILLIAMSBURG	5.2	5.5	5.1	3.9	6.1	5.6	4.7	5.9	5.8	7.0	5.4	5.7	6.1	5.9	5.3	5.8
* SATURN	5.4	6.1	6.0	3.7	5.9	5.7	3.8	6.0	5.9	6.6	5.7	5.6	6.5	6.1	5.5	5.7
* NAVAJO	4.6	5.4	5.2	3.8	5.8	5.7	4.8	6.1	5.7	6.8	5.3	5.5	6.2	6.1	5.3	6.1
APR 131	3.9	5.7	5.2	4.1	5.7	5.2	4.7	6.0	5.8	6.9	5.0	6.1	5.9	5.6	5.2	5.9
* STARDANCE (PST-2FE)	5.0	4.7	4.5	3.7	6.0	4.8	3.8	6.3	6.1	7.2	5.0	5.8	6.7	5.9	5.1	6.0
* DANCER	5.0	5.1	5.3	3.9	6.3	5.7	4.4	6.0	5.7	6.1	5.5	5.9	6.5	6.0	5.4	5.9
WVPB-PR-C-2	5.0	5.1	5.3	4.1	6.2	5.5	4.0	5.7	5.8	6.8	5.0	5.8	6.1	6.2	5.3	6.1
APR 066	4.1	5.8	5.2	4.0	5.9	5.8	4.8	6.0	5.5	6.6	4.8	6.0	5.7	5.8	5.3	6.0
* PEGASUS	5.2	5.9	5.2	4.0	5.8	4.8	4.3	5.9	5.3	6.6	5.1	5.4	6.2	5.9	5.2	5.7
* NINE-O-ONE	5.4	4.7	4.6	4.0	5.5	4.6	3.8	5.9	6.2	7.0	4.2	5.3	6.4	5.5	4.8	6.4
DLP 1305	4.0	5.0	4.4	3.6	6.3	4.3	3.2	5.9	5.8	5.9	5.3	5.4	5.9	5.8	5.4	4.8
DSV NA 9402	4.4	5.7	5.4	3.8	5.8	4.8	3.0	5.4	5.2	5.6	4.6	5.7	5.2	6.1	5.2	5.2
* FIGARO	4.5	5.2	5.5	4.0	5.7	4.3	2.5	5.1	5.3	5.5	4.6	5.0	5.4	6.2	5.1	5.5
DSV NA 9401	4.0	5.5	5.1	3.8	5.7	4.8	3.0	4.8	5.3	5.5	4.9	5.7	4.9	6.2	5.3	5.2
* PENNFINE	4.3	5.5	5.1	3.3	5.3	5.5	2.4	4.9	5.3	5.4	5.2	4.9	5.3	5.5	5.5	5.1
* LINN	2.4	3.7	4.7	3.4	4.0	3.7	1.3	2.4	3.6	2.9	3.3	4.1	4.5	5.4	4.4	3.5
LSD VALUE	1.2	0.9	1.0	0.7	0.4	0.7	0.8	0.7	0.6	0.3	1.0	0.6	0.9	0.8	1.0	0.5
C.V. (%)	28.7	10.2	17.9	18.5	8.7	17.4	20.6	13.0	10.6	5.6	10.9	10.3	13.7	16.1	19.9	8.9

* COMMERCIALY AVAILABLE IN THE USA IN 1999.

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 1. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
 1995-98 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NE1	NJ1	NJ2	OH1	OK1	PA1	QE1	RI1	UB1	UB2	VA1	WA1	WA3	WI1	MEAN
PALMER III (IRF-94-MPRH)	6.4	6.4	6.0	8.0	5.6	7.6	6.8	6.5	6.0	6.1	5.6	7.0	6.1	6.3	6.3
BRIGHTSTAR II (PST-2M3)	5.3	6.6	6.7	8.1	5.8	7.5	6.8	5.9	6.1	6.4	5.5	7.4	6.0	6.1	6.2
SECRETARIAT (RPBD)	6.4	6.1	5.8	7.9	5.4	7.6	6.9	6.3	6.2	5.8	5.6	6.7	5.5	5.9	6.2
CALYPSO II	6.4	6.2	5.7	7.8	5.6	7.8	6.5	6.3	6.3	6.3	5.2	6.8	5.9	5.8	6.2
PREMIER II (EAR USA 94-II)	6.7	6.3	6.0	7.7	5.5	7.2	6.9	5.9	6.0	6.2	5.4	6.8	6.0	5.8	6.2
PENNANT II (MB 42)	6.6	6.0	5.9	7.9	5.6	7.5	6.8	5.3	5.6	6.3	5.1	7.0	5.9	5.7	6.1
MONTEREY (J-1706)	6.3	6.0	5.6	7.9	4.9	7.8	6.7	6.1	5.9	6.1	5.6	6.9	5.8	6.0	6.1
RADIANT (MB 44)	6.3	5.5	5.2	7.9	6.0	7.3	6.8	5.5	5.5	6.0	5.4	7.7	5.4	6.1	6.1
LINE DRIVE (MB 47)	6.1	6.1	5.8	8.0	6.0	7.3	6.7	6.0	5.3	5.7	5.3	7.1	5.5	5.9	6.1
ACCENT	6.7	5.5	5.0	7.7	6.4	7.3	6.4	5.7	5.9	6.1	5.3	6.3	5.4	5.8	6.1
PANTHER (ZPS-PR1)	6.4	6.4	5.6	7.9	5.5	7.2	6.7	6.2	5.7	6.0	5.3	6.6	5.8	6.0	6.1
CATALINA (PST-GH-94)	6.1	6.1	5.3	8.0	5.7	7.5	6.6	5.9	5.9	6.3	5.1	6.6	5.2	5.8	6.1
LRF-94-C8	5.8	6.0	5.5	7.9	5.7	7.1	6.8	5.1	5.2	6.1	5.6	7.2	5.3	6.0	6.1
SONATA (PST-2R3)	6.3	5.3	5.5	7.9	5.2	7.7	6.8	5.8	5.9	5.9	5.2	6.5	4.9	5.8	6.0
ASCEND (MB 45)	6.5	5.7	6.0	7.9	5.4	7.1	7.0	5.1	5.4	6.0	5.3	7.2	5.8	5.9	6.0
MAJESTY (MB 43)	6.4	5.7	5.8	7.9	5.4	7.3	6.8	5.1	5.5	6.0	4.9	7.0	5.6	5.4	6.0
TOP HAT	6.3	5.4	5.1	7.9	6.3	7.1	6.3	5.7	5.4	6.0	5.2	6.3	5.5	6.0	6.0
PRELUDE III (LRF-94-B6)	5.4	6.2	5.6	7.6	5.7	6.8	6.7	5.5	5.6	5.8	5.6	6.8	5.1	5.8	6.0
PRIZM	6.4	5.6	5.2	7.9	5.8	7.6	6.7	5.8	5.5	6.2	5.2	6.7	5.7	5.9	6.0
CIS-MBH (ISI-MHB)	6.7	5.4	5.0	8.0	5.9	7.5	6.7	6.1	5.9	5.9	5.2	6.5	5.7	5.8	6.0
CADDIESHACK (MED 5071)	6.6	5.6	5.6	7.9	6.0	7.0	6.4	5.8	6.5	6.3	5.3	6.2	5.0	5.9	6.0
LAREDO	6.6	5.7	5.5	8.1	6.3	7.3	6.7	5.6	5.8	6.2	5.2	6.5	5.9	6.0	6.0
REPELL III (IRF-94-C7)	6.2	6.1	5.4	7.6	5.9	6.6	6.5	5.2	5.1	6.0	5.3	7.2	5.4	5.8	6.0
MANHATTAN 3	6.2	5.9	5.2	8.0	6.0	7.4	6.6	5.5	5.6	6.2	5.5	7.0	5.0	5.9	6.0
SR 4200	6.1	5.2	5.2	7.7	5.9	7.4	6.8	6.1	5.2	5.6	5.2	6.4	5.6	5.8	6.0
PASSPORT (PST-2FF)	6.5	5.1	4.9	8.1	5.5	7.6	6.9	5.8	5.7	5.7	5.6	6.5	5.4	5.9	6.0
ESQUIRE	6.6	5.6	5.0	7.8	6.2	7.1	6.6	5.8	5.7	5.5	5.2	6.2	5.2	5.6	6.0
SUNSHINE (PICK LP 102-92)	6.0	5.7	5.2	7.8	6.0	7.2	6.4	6.0	5.7	6.1	5.3	6.7	5.2	5.8	6.0
BRIGHTSTAR	6.1	5.3	5.8	7.7	5.6	7.8	6.5	6.2	5.1	5.9	5.4	6.8	5.4	5.9	6.0
DIVINE	6.1	5.8	5.5	7.8	5.9	7.5	6.9	5.6	5.5	6.2	5.1	6.8	4.9	6.0	5.9
BLACKHAWK (TMI-EXFLP94)	6.0	5.1	4.8	7.6	6.3	7.5	6.7	5.8	4.9	5.8	5.1	6.1	5.5	5.8	5.9
MARDIGRAS (ZPS-2NV)	6.6	5.3	4.9	7.5	5.1	7.9	6.9	5.6	5.6	5.8	5.3	6.5	5.6	5.7	5.9
WIND DANCE (MB 46)	6.0	5.6	5.9	7.8	5.0	7.3	6.5	5.1	5.1	6.3	5.0	7.2	5.3	6.0	5.9
IMAGINE	6.0	5.4	5.0	7.7	5.6	7.1	6.5	5.1	5.7	5.9	5.2	7.2	5.8	5.8	5.9
SR 4400 (SRX 4400)	6.5	4.5	4.3	7.9	6.4	7.3	6.6	5.6	5.2	5.7	5.4	5.9	5.3	5.9	5.9
BLAZER III (PICK 928)	6.3	5.1	4.8	8.1	5.2	7.6	6.3	5.8	6.0	5.8	5.2	6.5	5.4	5.6	5.9
ACHIEVER	5.9	5.0	4.4	7.8	6.2	7.1	6.6	5.7	5.5	5.9	5.3	6.5	5.3	5.6	5.9
CHAPARRAL (PST-2DLM)	5.8	5.9	5.5	7.8	5.2	6.8	6.5	5.5	5.3	5.9	5.1	7.0	5.4	6.1	5.9
WX3-93	6.2	5.5	5.4	7.7	5.9	7.3	6.7	5.7	5.3	5.5	5.1	6.3	4.9	5.9	5.9
HEAD START (PICK PR 84-91)	6.5	5.2	4.9	7.7	5.9	7.6	6.5	5.9	5.9	5.9	5.1	6.5	5.1	5.4	5.9
ASSURE	6.1	4.9	4.7	7.7	5.9	7.1	6.3	6.0	6.0	5.8	5.3	6.2	5.4	5.7	5.9
OMEGA3 (ZPS-2DR-94)	6.3	5.5	4.5	7.8	5.9	7.0	6.9	6.0	5.5	5.8	5.1	6.5	5.6	5.8	5.9
WIND STAR (PST-28M)	5.5	5.4	4.6	7.5	5.4	7.2	6.8	5.7	5.6	5.9	5.2	6.4	5.4	5.7	5.9
TOP GUN (J-1703)	6.1	5.3	4.7	7.7	5.7	7.5	6.4	5.6	5.6	6.1	5.5	6.4	5.0	5.9	5.9
RIVIERA II	6.2	5.1	4.7	7.7	5.8	7.6	6.7	5.5	5.2	5.8	5.2	6.6	5.3	5.8	5.9
WIZARD (MB 41)	6.4	5.1	5.2	7.8	5.8	7.1	6.9	5.4	5.5	6.0	4.9	6.5	5.3	5.8	5.9
EDGE	5.6	5.2	4.4	7.8	5.8	6.9	6.5	5.9	5.1	5.5	5.3	6.4	5.5	5.8	5.9
OMNI	6.0	5.4	4.9	7.6	5.7	7.8	6.5	5.9	5.6	5.6	4.9	6.4	5.3	5.5	5.9
SATURN II (ZPS-2ST)	6.0	5.0	4.7	7.8	5.8	6.6	6.7	5.9	5.8	6.0	5.3	6.4	5.4	5.7	5.8
R2 (ISI-R2)	5.9	4.8	4.3	7.9	5.3	7.5	6.4	5.7	5.5	5.7	5.0	6.2	4.9	5.7	5.8
CUTTER	6.2	4.9	4.8	7.9	5.8	7.1	6.8	5.7	5.4	5.6	5.3	6.3	5.6	5.8	5.8
STALLION SUPREME (PSI-E-1)	6.0	4.9	4.2	7.7	5.8	7.0	6.7	5.9	5.6	5.6	5.2	6.2	5.2	5.6	5.8

TABLE 1. (CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
1995-98 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	NE1	NJ1	NJ2	OH1	OK1	PA1	QE1	RI1	UB1	UB2	VA1	WA1	WA3	WI1	MEAN
CITATION III (PST-2DGR)	5.4	5.8	5.1	7.7	5.6	7.2	6.6	5.2	5.5	5.7	4.9	7.1	5.6	5.9	5.8
ROADRUNNER (PST-2ET)	5.6	5.2	4.9	7.9	5.7	6.9	6.3	5.3	5.8	6.0	5.0	6.8	5.2	5.7	5.8
VIVID	6.3	4.9	4.6	7.7	6.0	6.9	6.5	5.5	5.0	5.6	5.2	6.3	5.0	5.5	5.8
ELF	6.3	5.3	5.7	7.6	5.3	6.5	6.8	6.0	5.0	5.6	5.3	6.6	5.6	6.0	5.8
PS-D-9	6.0	4.8	3.9	7.8	5.8	7.4	6.5	5.5	5.6	5.8	5.1	6.0	5.2	5.7	5.8
MORNING STAR	5.8	4.8	4.7	7.6	6.1	7.3	6.7	5.6	4.9	5.4	5.3	6.2	5.3	5.7	5.8
ADVANTAGE	5.7	5.2	5.2	7.7	5.2	7.3	6.4	5.8	5.3	5.6	4.9	6.8	5.2	5.6	5.8
ACADEMY (PC-93-1)	6.2	4.7	4.1	7.7	6.1	7.4	6.7	5.9	4.9	5.6	5.3	6.1	5.2	5.7	5.8
EXCEL (MB 1-5)	6.2	5.1	5.5	7.7	5.4	7.1	6.8	5.2	5.3	5.5	4.7	7.0	5.5	5.7	5.8
SPELL BOUND (WVPB-93-KFK)	6.2	4.9	4.4	7.7	5.9	7.0	6.7	5.7	4.8	5.5	5.3	6.2	5.1	5.8	5.8
KOOS 93-6	6.3	5.1	4.7	7.7	5.5	7.2	6.6	5.7	5.4	5.8	5.3	6.1	5.2	5.5	5.8
MVF-4-1	6.1	5.0	4.2	7.8	5.5	6.8	6.4	5.8	5.1	5.8	5.3	5.9	5.3	5.6	5.8
PRECISION	6.3	5.1	4.8	7.7	5.0	7.2	6.4	5.9	5.3	5.6	5.1	6.4	5.5	5.7	5.7
SR 4010 (SRX 4010)	6.0	4.7	4.2	7.9	5.8	6.9	6.2	5.8	4.9	5.7	5.0	6.1	5.2	5.6	5.7
ASP400 (APR 106)	6.4	4.5	4.7	7.9	5.7	6.3	6.8	5.8	5.7	5.8	5.0	6.1	5.4	6.0	5.7
PROTOCOL (KOOS 93-3)	5.7	4.8	4.5	7.6	5.4	7.2	6.5	5.4	5.5	5.3	5.1	6.1	5.1	5.7	5.7
BUCCANEER II (WVPB 92-4)	6.0	4.4	3.7	7.9	5.9	6.9	6.9	5.7	5.0	5.4	5.2	5.7	5.2	5.6	5.7
QUICKSTART	5.5	4.8	4.4	7.9	5.7	7.3	6.7	5.3	5.3	5.8	5.2	6.3	4.8	5.6	5.7
NOBILITY	5.9	4.5	4.3	8.0	5.8	7.2	6.7	5.1	5.0	5.6	5.1	6.1	5.3	5.6	5.7
APR 124	5.9	5.4	4.2	7.5	5.4	6.9	6.3	5.4	4.9	5.6	4.9	6.6	5.4	6.0	5.7
LEGACY II (LESCO-TWF)	5.5	5.2	5.6	7.7	5.3	7.4	6.5	5.4	5.5	5.6	5.1	6.5	4.8	5.6	5.7
STALLION SELECT	5.6	4.9	5.2	7.6	5.9	6.5	6.6	5.5	4.6	5.2	5.3	6.1	5.1	5.6	5.7
NIGHT HAWK	5.6	5.2	4.9	7.8	5.8	7.0	6.6	5.4	4.5	4.8	5.2	6.2	5.3	5.6	5.7
CAS-LP23	5.7	4.9	4.1	7.5	5.5	7.0	6.6	5.5	4.8	5.3	5.0	6.7	4.9	5.9	5.6
PST-2CB	5.3	5.0	4.3	7.8	5.0	6.7	6.7	5.1	5.2	5.3	5.2	6.3	5.0	5.7	5.6
WX3-91	5.6	4.9	4.5	8.0	5.6	7.0	6.6	5.6	4.9	5.5	5.1	6.0	5.2	5.6	5.6
EXPRESS	5.6	4.4	3.8	7.7	5.5	7.1	6.7	5.6	4.9	5.0	5.0	6.2	5.3	5.4	5.6
BAR ER 5813	6.2	4.5	4.2	7.5	6.3	6.6	6.5	5.4	4.4	5.5	5.2	6.0	5.0	6.1	5.6
WILLIAMSBURG	5.7	4.0	4.0	7.9	6.0	6.8	6.8	5.0	5.4	5.4	5.3	5.9	5.1	5.8	5.6
SATURN	6.1	4.2	4.1	7.7	5.5	7.3	6.4	4.9	4.8	4.9	5.0	6.0	5.4	5.7	5.6
NAVAJO	6.0	4.7	4.4	8.0	4.9	7.4	6.7	5.4	5.1	5.0	5.2	6.1	5.1	5.6	5.6
APR 131	5.5	4.4	4.1	7.8	5.9	7.2	6.6	5.7	5.5	5.6	4.8	6.2	4.9	5.8	5.6
STARDANCE (PST-2FE)	5.7	5.1	4.7	7.8	4.8	6.5	6.6	4.7	5.6	5.6	4.9	6.7	4.7	5.8	5.5
DANCER	5.9	4.3	4.1	7.6	5.0	7.0	6.4	5.3	4.4	5.1	5.0	6.1	5.0	6.0	5.5
WVPB-PR-C-2	5.9	4.4	3.8	7.5	5.2	7.1	6.6	5.4	4.4	5.1	5.1	5.9	5.2	5.5	5.5
APR 066	5.4	3.8	3.6	7.4	5.9	7.1	6.7	5.4	5.4	5.2	4.9	5.9	4.6	5.5	5.5
PEGASUS	5.5	4.4	4.5	7.6	5.6	6.8	6.7	5.5	4.0	4.6	4.9	6.2	5.2	5.5	5.4
NINE-O-ONE	5.0	4.9	4.4	7.7	5.2	7.2	6.4	4.0	5.0	4.9	4.4	6.3	5.5	5.5	5.4
DLP 1305	6.1	3.8	3.4	7.6	5.1	6.7	6.5	4.3	4.3	3.1	4.6	5.6	4.9	6.0	5.1
DSV NA 9402	5.0	3.0	3.2	7.3	4.8	6.4	6.4	4.7	3.8	4.1	4.4	5.3	5.1	5.9	5.0
FIGARO	5.0	3.0	3.1	7.3	4.4	6.4	6.5	4.5	4.3	3.5	4.2	5.3	5.0	5.2	4.9
DSV NA 9401	4.9	2.9	2.9	7.3	4.5	6.1	6.3	4.5	3.5	4.0	4.3	5.3	4.8	5.8	4.9
PENNFINE	5.1	3.0	2.6	7.6	5.1	5.9	6.3	3.6	4.1	3.6	4.5	5.6	4.6	5.2	4.8
LINN	2.5	1.5	1.1	6.1	4.0	4.8	5.6	2.4	2.9	2.2	3.2	3.9	3.3	4.2	3.5
LSD VALUE	0.8	0.4	0.6	0.4	0.7	0.6	0.4	0.6	0.9	0.6	0.4	0.4	0.3	0.5	0.1
C.V. (%)	15.9	10.9	13.5	5.2	15.7	9.2	7.8	13.6	20.9	15.6	9.7	8.0	9.0	6.9	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 2.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH 1/
MONTH GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA

1995-98 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PALMER III (LRF-94-MPRH)	5.3	5.0	6.0	6.4	6.5	6.4	6.1	6.0	6.3	6.5	6.4	5.6	6.3
BRIGHTSTAR II (PST-2M3)	5.0	4.6	6.0	6.5	6.6	6.4	5.9	5.8	6.2	6.5	6.5	5.6	6.2
CALYPSO II	5.0	4.7	5.7	6.2	6.3	6.4	6.0	6.0	6.2	6.4	6.3	5.2	6.2
PENNANT II (MB 42)	4.9	4.3	6.0	6.5	6.5	6.4	5.9	5.9	6.2	6.3	6.1	5.1	6.2
SECRETARIAT (RPBD)	4.8	4.4	5.9	6.3	6.3	6.5	6.2	5.9	6.2	6.3	6.0	5.2	6.2
PREMIER II (BAR USA 94-II)	5.3	4.6	5.9	6.2	6.3	6.3	6.1	5.9	6.2	6.3	6.3	5.4	6.2
MONTEREY (J-1706)	4.9	4.6	5.5	6.1	6.2	6.3	6.1	5.9	6.1	6.3	6.0	5.2	6.1
RADIANT (MB 44)	4.5	4.2	5.9	6.5	6.6	6.4	5.8	5.7	6.0	6.2	5.9	5.1	6.1
PANTHER (ZPS-PR1)	4.7	4.3	5.5	6.0	6.2	6.2	6.0	5.9	6.1	6.2	6.1	5.3	6.1
LINE DRIVE (MB 47)	5.0	4.6	5.7	6.2	6.2	6.2	5.8	5.8	6.1	6.3	6.2	5.4	6.1
CATALINA (PST-GH-94)	4.4	4.1	5.5	6.2	6.3	6.3	5.9	5.7	6.1	6.2	6.2	5.0	6.1
ACCENT	4.6	4.2	5.7	6.0	6.2	6.2	6.1	5.9	6.0	6.1	5.9	5.0	6.1
MAJESTY (MB 43)	4.7	4.4	5.8	6.4	6.3	6.2	5.7	5.7	6.0	6.2	5.9	4.9	6.1
IRF-94-C8	4.6	4.2	5.9	6.4	6.3	6.1	5.7	5.7	6.0	6.2	6.1	5.3	6.1
ASCEND (MB 45)	4.8	4.4	5.7	6.3	6.4	6.2	5.7	5.7	6.0	6.2	5.9	5.3	6.1
SONATA (PST-2R3)	4.2	4.1	5.4	6.0	6.2	6.2	5.9	5.8	6.1	6.2	6.0	4.7	6.1
CADDIESHACK (MED 5071)	4.1	3.9	5.6	6.1	6.2	6.2	6.0	5.8	6.0	6.1	6.0	4.9	6.0
TOP HAT	4.7	4.4	5.7	6.0	6.0	6.2	6.0	5.8	6.0	6.1	5.8	5.2	6.0
PRIZM	4.7	4.4	5.7	6.2	6.1	6.2	5.9	5.9	6.0	6.1	5.9	5.1	6.0
PRELUDE III (LRF-94-B6)	4.5	4.3	5.8	6.3	6.2	6.0	5.8	5.7	5.9	6.2	6.1	5.1	6.0
REPELL III (LRF-94-C7)	4.5	4.3	5.8	6.3	6.3	6.1	5.8	5.7	6.0	6.2	6.0	5.1	6.0
LAREDO	5.0	4.6	5.7	6.0	6.0	6.2	5.9	5.8	6.1	6.2	6.1	5.0	6.0
CIS-MBH (ISI-MHB)	4.7	4.4	5.7	6.0	6.1	6.2	6.0	5.9	5.9	6.1	5.8	5.1	6.0
MANHATTAN 3	4.3	4.1	5.6	6.1	6.0	6.1	5.9	5.8	6.0	6.2	5.8	5.2	6.0
SUNSHINE (PICK LP 102-92)	4.5	4.0	5.7	6.1	6.1	6.2	5.8	5.7	6.0	6.0	5.8	4.9	6.0
IMAGINE	4.4	4.1	5.5	6.1	6.4	6.2	5.7	5.5	5.7	6.1	5.8	5.1	6.0
PASSPORT (PST-2FF)	4.4	4.0	5.5	6.0	6.1	6.1	5.7	5.7	6.0	6.1	5.8	5.1	6.0
ESQUIRE	4.0	4.0	5.4	6.2	6.1	6.2	5.9	5.7	5.8	6.0	5.8	5.0	6.0
SR 4200	4.6	4.6	5.7	6.0	6.0	6.1	5.9	5.7	5.9	6.0	5.6	5.0	6.0
DIVINE	4.0	3.9	5.5	6.1	6.2	6.2	5.7	5.7	5.9	6.0	5.7	4.9	5.9
MARDIGRAS (ZPS-2NV)	4.6	4.3	5.5	6.1	6.1	6.1	5.8	5.7	5.9	6.0	5.8	5.1	5.9
BRIGHTSTAR	4.4	4.1	5.5	6.0	6.3	6.2	5.8	5.6	5.8	6.0	5.7	5.2	5.9
WIND DANCE (MB 46)	4.4	4.1	5.7	6.2	6.2	6.0	5.7	5.5	5.8	6.1	5.9	4.8	5.9
SR 4400 (SRX 4400)	4.5	4.4	5.4	5.8	6.0	6.2	5.9	5.8	5.9	6.0	5.4	4.8	5.9
BLACKHAWK (TMI-EXFLP94)	4.8	4.4	5.6	5.9	5.9	6.1	5.8	5.8	5.9	6.0	5.8	5.2	5.9
ACHIEVER	4.4	4.3	5.5	5.8	5.6	5.9	6.0	5.9	6.1	6.0	5.7	4.8	5.9
CHAPARRAL (PST-2DLM)	4.3	4.0	5.7	6.1	6.3	6.1	5.6	5.5	5.8	6.0	5.8	4.9	5.9
WIZARD (MB 41)	4.5	4.1	5.8	6.1	6.0	6.0	5.7	5.6	5.8	6.0	5.8	5.1	5.9
BLAZER III (PICK 928)	4.2	4.0	5.7	6.0	6.1	6.1	5.7	5.6	5.8	5.9	5.8	4.9	5.9
ASSURE	4.4	4.2	5.5	5.9	5.9	6.0	5.8	5.8	5.9	5.9	5.7	5.0	5.9
HEAD START (PICK PR 84-91)	4.0	3.9	5.2	6.0	6.1	6.1	5.8	5.7	5.9	5.9	5.7	4.7	5.9
RIVIERA II	4.5	4.3	5.6	6.0	6.0	6.0	5.7	5.7	5.9	6.0	5.7	5.0	5.9
TOP GUN (J-1703)	4.2	4.0	5.4	6.0	6.0	6.0	5.8	5.7	5.9	5.9	5.6	4.6	5.9
WIND STAR (PST-28M)	4.3	4.3	5.5	5.8	6.0	6.1	5.8	5.7	5.8	5.9	5.7	5.0	5.9
OMEGA3 (ZPS-2DR-94)	4.6	4.3	5.6	6.0	6.0	6.1	5.7	5.6	5.8	5.9	5.7	5.2	5.9
EDGE	4.5	4.3	5.7	5.9	5.8	5.9	5.8	5.8	5.9	6.0	5.7	5.2	5.9
WX3-93	4.2	4.0	5.4	6.0	6.1	6.1	5.7	5.5	5.8	5.9	5.7	4.7	5.9
SATURN II (ZPS-2ST)	4.5	4.4	5.7	6.0	5.8	6.0	5.7	5.7	5.8	6.0	5.8	5.0	5.9
CUTTER	4.6	4.6	5.4	6.1	5.9	5.9	5.7	5.7	5.9	5.9	5.7	4.8	5.9
OMNI	4.3	4.1	5.3	5.8	6.1	6.1	5.7	5.6	5.8	5.9	5.6	4.7	5.8
STALLION SUPREME (PSI-E-1)	4.6	4.4	5.7	5.9	5.8	5.9	5.7	5.7	5.9	5.9	5.7	4.9	5.8
ROADRUNNER (PST-2ET)	4.5	3.9	5.6	5.9	5.7	5.8	5.6	5.6	5.8	6.0	5.9	5.1	5.8

TABLE 2. (CONT'D) MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
1995-98 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF; MONTHS

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
VIVID	4.2	4.1	5.5	5.9	5.9	6.0	5.7	5.5	5.9	5.8	5.6	4.9	5.8
R2 (ISI-R2)	4.2	3.9	5.3	5.6	5.8	6.1	5.8	5.7	5.8	5.8	5.4	4.9	5.8
CITATION III (PST-2DGR)	4.2	4.0	5.6	5.9	5.9	5.9	5.6	5.5	5.8	6.0	5.9	5.0	5.8
PS-D-9	4.3	4.3	5.4	5.7	5.7	5.9	5.7	5.6	5.8	5.9	5.6	5.0	5.8
ELF	4.8	4.5	5.8	6.0	5.9	5.9	5.6	5.4	5.7	5.8	5.7	5.1	5.8
KOOS 93-6	4.4	4.3	5.3	5.7	5.8	5.9	5.7	5.6	5.8	5.9	5.6	5.1	5.8
MORNING STAR	4.5	4.2	5.6	5.7	5.7	5.9	5.7	5.6	5.8	5.9	5.5	5.2	5.8
MVF-4-1	4.5	4.4	5.7	5.8	5.7	5.9	5.6	5.6	5.8	5.9	5.6	4.9	5.8
SEELL BOUND (WVPB-93-KEK)	4.7	4.3	5.5	5.9	5.8	5.9	5.5	5.5	5.8	5.9	5.6	5.3	5.8
ADVANTAGE	4.5	4.1	5.4	5.9	6.0	5.9	5.5	5.4	5.7	5.9	5.7	4.9	5.8
ACADEMY (PC-93-1)	4.5	4.3	5.6	5.8	5.7	6.0	5.7	5.6	5.8	5.8	5.5	5.0	5.8
EXCEL (MB 1-5)	4.5	4.3	5.8	6.2	6.1	5.9	5.5	5.2	5.5	5.9	5.6	4.9	5.8
PRECISION	4.9	4.6	5.5	5.7	5.7	5.9	5.6	5.5	5.8	5.9	5.8	5.0	5.7
ASP400 (APR 106)	4.5	4.3	5.3	5.7	5.7	5.9	5.7	5.6	5.7	5.8	5.6	4.9	5.7
SR 4010 (SRX 4010)	4.4	4.1	5.4	5.8	5.7	5.8	5.6	5.6	5.8	5.8	5.4	5.0	5.7
QUICKSTART	4.3	4.2	5.6	5.7	5.6	5.9	5.7	5.5	5.7	5.8	5.5	4.9	5.7
BUCCANEER II (WVPB 92-4)	4.5	4.4	5.5	5.5	5.6	5.8	5.7	5.6	5.8	5.8	5.4	4.8	5.7
PROTOCOL (KOOS 93-3)	4.6	4.4	5.6	5.7	5.7	5.8	5.6	5.5	5.7	5.8	5.6	4.9	5.7
NOBILITY	4.4	4.3	5.3	5.6	5.6	5.8	5.7	5.5	5.7	5.8	5.4	5.0	5.7
LEGACY II (LESCO-TWF)	4.5	3.9	5.5	6.0	5.9	5.8	5.5	5.3	5.6	5.8	5.7	4.7	5.7
AER 124	4.5	4.1	5.5	5.6	5.8	5.9	5.4	5.3	5.6	5.7	5.7	5.1	5.7
CAS-LP23	4.4	4.1	5.5	5.8	5.9	5.8	5.4	5.2	5.5	5.7	5.5	4.9	5.6
STALLION SELECT	4.5	4.3	5.5	5.8	5.6	5.7	5.5	5.4	5.6	5.7	5.5	5.2	5.6
WX3-91	4.2	4.1	5.6	5.8	5.6	5.8	5.5	5.4	5.6	5.7	5.6	4.8	5.6
NIGHT HAWK	4.4	4.3	5.8	5.8	5.8	5.8	5.4	5.2	5.5	5.7	5.4	5.0	5.6
EXPRESS	4.5	4.4	5.4	5.7	5.6	5.8	5.5	5.5	5.7	5.6	5.4	5.0	5.6
PST-2CB	4.7	4.3	5.7	5.7	5.4	5.6	5.4	5.3	5.7	5.8	5.4	4.9	5.6
WILLIAMSBURG	4.4	4.3	5.4	5.6	5.6	5.8	5.5	5.4	5.5	5.7	5.4	5.0	5.6
NAVAJO	4.1	3.9	5.3	5.9	5.7	5.7	5.4	5.2	5.4	5.6	5.3	4.9	5.6
BAR ER 5813	4.0	3.8	5.5	5.9	5.8	5.7	5.5	5.2	5.4	5.6	5.3	4.4	5.6
SATURN	4.8	4.7	5.7	5.6	5.5	5.6	5.4	5.3	5.5	5.5	5.3	5.0	5.5
AER 131	4.3	3.9	5.2	5.5	5.5	5.7	5.4	5.4	5.6	5.6	5.5	4.7	5.5
STARDANCE (PST-2FE)	3.8	3.6	5.4	5.8	5.6	5.6	5.4	5.2	5.4	5.7	5.4	4.3	5.5
WVPB-PR-C-2	4.3	4.2	5.5	5.6	5.6	5.6	5.3	5.2	5.4	5.5	5.4	5.0	5.5
DANCER	4.3	3.9	5.2	5.5	5.7	5.7	5.3	5.1	5.4	5.5	5.2	4.7	5.5
AER 066	3.8	3.7	5.0	5.4	5.4	5.6	5.3	5.2	5.4	5.6	5.2	4.5	5.4
PEGASUS	4.7	4.2	5.5	5.5	5.5	5.6	5.2	5.0	5.2	5.4	5.4	5.1	5.4
NINE-O-ONE	4.6	4.2	5.4	5.4	5.2	5.4	5.3	5.2	5.3	5.5	5.3	4.9	5.4
DLP 1305	3.5	3.5	4.7	5.1	5.5	5.5	4.8	4.6	4.6	4.9	4.6	4.4	5.0
DSV NA 9402	4.2	4.3	5.0	4.8	5.1	5.2	4.7	4.5	4.8	5.0	4.6	4.7	4.9
FIGARO	4.3	4.1	5.0	4.7	5.0	5.0	4.7	4.4	4.6	4.8	4.6	4.9	4.8
DSV NA 9401	4.5	4.2	4.9	4.7	5.0	5.0	4.6	4.4	4.7	4.8	4.4	4.4	4.8
PENNFINE	3.9	3.7	4.9	4.6	4.6	5.0	4.7	4.5	4.7	4.7	4.3	4.0	4.8
LINN	3.4	3.2	3.6	3.1	3.1	3.3	3.1	3.1	3.4	3.5	3.3	3.5	3.4
LSD VALUE	0.5	0.5	0.6	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6	0.2
C.V. (%)	21.1	22.0	29.0	22.1	23.4	23.4	26.0	29.0	28.4	26.4	25.8	26.7	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.

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
1995-98 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING 2/

NAME	AR1	BC1	DC1	GA1	IA1	IL1	IL2	IN1	KS1	KY1	MA1	MD1	ME1	MI1	MO1	MO3
PALMER III (LRF-94-MPRH)	29.0	46.5	63.0	4.0	23.0	1.0	6.0	24.0	12.0	27.5	6.0	50.0	4.0	10	64.0	7.0
BRIGHTSTAR II (PST-2M3)	7.0	90.5	77.5	13.0	90.5	61.0	52.0	2.0	2.0	3.0	14.5	1.0	35.0	48	11.5	3.0
SECRETARIAT (RPBD)	13.0	61.0	29.0	1.0	1.0	22.0	5.0	26.0	16.0	30.5	1.0	23.0	18.0	54	34.0	37.0
CALYPSO II	30.0	18.5	45.5	38.0	66.0	31.0	2.0	4.0	10.0	41.5	36.5	2.0	14.0	65	56.0	8.0
PREMIER II (BAR USA 94-II)	11.0	20.5	83.5	31.0	3.0	64.0	46.0	5.0	13.0	7.0	9.0	19.5	13.0	79	38.5	16.5
PENNANT II (MB 42)	2.0	95.0	36.0	5.0	19.5	41.0	1.0	33.0	37.0	5.0	83.5	63.5	27.0	57	41.0	16.5
MONTEREY (J-1706)	76.0	48.5	22.5	20.0	2.0	20.0	17.0	1.0	24.0	30.5	29.5	26.0	26.0	32	22.0	21.0
RADIANT (MB 44)	1.0	79.5	59.5	24.0	70.0	44.0	42.0	51.0	9.0	6.0	22.0	36.0	40.0	88	8.0	23.5
LINE DRIVE (MB 47)	53.0	37.0	63.0	3.0	4.0	15.0	23.0	32.0	30.5	11.0	18.5	43.5	39.0	93	35.5	6.0
ACCENT	5.0	4.5	1.5	66.0	12.0	14.0	40.5	6.5	44.0	59.5	60.5	9.5	29.0	71	16.0	32.0
PANTHER (ZPS-PR1)	71.0	37.0	32.5	44.0	37.5	4.0	58.0	11.0	6.0	16.5	46.0	66.5	17.0	25	38.5	15.0
CATALINA (PST-GH-94)	6.0	74.5	52.0	26.0	33.5	37.0	10.0	25.0	39.0	24.0	4.0	16.5	19.0	89	29.0	23.5
LRF-94-C8	4.0	94.0	67.0	73.0	87.0	76.0	12.0	8.0	4.0	4.0	9.0	89.0	2.0	50	64.0	1.0
SONATA (PST-2R3)	36.0	15.0	13.5	28.0	19.5	3.0	4.0	20.0	86.0	46.0	67.0	45.0	45.0	5	3.0	11.5
ASCEND (MB 45)	31.0	82.0	63.0	35.0	40.0	53.0	11.0	29.0	58.0	9.0	41.5	51.0	9.0	77	35.5	9.0
MAJESTY (MB 43)	3.0	90.5	45.5	60.0	49.5	7.0	14.0	47.0	59.0	10.0	22.0	23.0	23.0	33	14.0	19.0
TOP HAT	18.0	42.5	40.0	37.0	75.0	18.0	38.0	9.0	22.0	13.0	22.0	4.0	6.0	47	10.0	56.5
PRELUDE III (LRF-94-B6)	9.0	92.5	71.0	14.0	92.0	82.0	13.0	22.5	1.0	2.0	18.5	60.5	3.0	82	26.0	2.0
PRIZM	45.0	69.0	67.0	30.0	66.0	77.0	18.0	27.0	7.0	24.0	14.5	8.0	65.5	62	5.5	11.5
CIS-MBH (ISI-MHB)	70.0	3.0	56.5	6.0	29.5	56.0	59.0	10.0	41.0	35.0	54.5	60.5	16.0	35	38.5	32.0
CADDIESHACK (MED 5071)	10.0	92.5	71.0	52.0	18.0	79.0	22.0	13.0	25.0	27.5	60.5	34.0	41.0	41	32.5	18.0
LAREDO	87.0	51.5	81.0	72.0	60.5	68.0	32.0	19.0	23.0	41.5	44.0	11.5	10.0	58	38.5	32.0
REPELL III (LRF-94-C7)	33.0	82.0	73.0	79.0	93.0	69.0	3.0	15.0	3.0	1.0	54.5	75.0	1.0	92	1.0	14.0
MANHATTAN 3	77.0	40.5	77.5	27.0	21.0	39.0	26.0	34.0	17.0	14.5	54.5	56.5	44.0	76	13.0	29.5
SR 4200	38.0	32.5	10.5	54.0	35.5	6.0	33.0	21.0	67.0	39.0	22.0	39.0	52.0	49	68.5	55.0
PASSPORT (PST-2FF)	23.0	8.5	26.5	68.0	56.0	17.0	69.0	36.0	51.0	24.0	71.0	31.5	79.0	15	64.0	25.0
ESQUIRE	32.0	66.5	22.5	43.0	54.0	51.0	48.0	35.0	28.0	24.0	32.0	6.0	24.0	21	30.5	26.5
SUNSHINE (PICK LP 102-92)	27.0	73.0	88.0	70.0	60.5	55.0	45.0	40.0	27.0	16.5	4.0	85.0	28.0	28	32.5	29.5
BRIGHTSTAR	40.0	79.5	13.5	77.0	71.0	59.0	78.0	13.0	18.0	43.0	14.5	3.0	48.0	95	2.0	28.0
DIVINE	80.0	84.5	81.0	74.0	9.0	81.0	8.0	41.5	34.0	14.5	29.5	11.5	11.0	59	46.0	87.0
BLACKHAWK (TMI-EXFLP94)	41.0	6.0	59.5	2.0	7.0	19.0	15.0	37.0	56.0	49.5	14.5	41.0	78.0	14	60.0	26.5
MARDIGRAS (ZPS-2NV)	60.0	42.5	95.5	48.0	17.0	46.0	51.0	45.0	38.0	21.0	9.0	33.0	12.0	66	59.0	20.0
WIND DANCE (MB 46)	8.0	76.5	81.0	10.0	94.5	66.0	43.0	18.0	5.0	8.0	48.5	47.5	22.0	67	44.5	40.5
IMAGINE	64.0	88.5	74.5	55.0	85.0	26.5	9.0	16.0	8.0	12.0	82.0	21.0	7.0	87	81.0	5.0
SR 4400 (SRX 4400)	21.0	63.5	29.0	11.0	8.0	2.0	24.0	3.0	48.0	48.0	22.0	36.0	50.0	75	27.5	65.0
BLAZER III (PICK 928)	66.0	48.5	52.0	57.0	46.0	16.0	25.0	39.0	21.0	55.0	14.5	58.5	25.0	52	50.0	53.5
ACHIEVER	46.0	51.5	36.0	49.5	40.0	5.0	31.0	84.0	11.0	70.0	44.0	68.0	21.0	9	11.5	53.5
CHAPARRAL (PST-2DLM)	12.0	74.5	59.5	16.0	68.5	90.0	40.5	13.0	46.0	18.5	80.5	53.0	5.0	64	86.0	42.0
WX3-93	62.0	59.0	67.0	69.0	54.0	42.0	73.0	22.5	32.0	47.0	4.0	9.5	82.0	39	5.5	10.0
HEAD START (PICK PR 84-91)	75.0	84.5	32.5	87.0	77.5	72.5	28.0	28.0	35.0	34.0	26.0	31.5	20.0	61	8.0	39.0
ASSURE	17.0	56.5	22.5	45.0	28.0	32.0	36.0	71.5	71.0	49.5	28.0	66.5	42.0	20	23.0	76.0
OMEGA3 (ZPS-2DR-94)	78.0	40.5	40.0	18.0	5.0	92.0	63.0	38.0	52.0	52.0	14.5	29.0	43.0	19	58.0	44.0
WIND STAR (PST-28M)	68.0	28.5	45.5	81.0	6.0	10.0	20.0	44.0	14.0	45.0	7.0	84.0	64.0	37	21.0	51.0
TOP GUN (J-1703)	15.0	66.5	59.5	91.0	84.0	58.0	35.0	31.0	29.0	30.5	50.5	65.0	31.0	69	8.0	52.0
RIVIERA II	14.0	18.5	92.0	36.0	51.0	21.0	65.0	54.0	20.0	44.0	67.0	14.5	37.0	40	50.0	58.5
WIZARD (MB 41)	19.0	78.0	88.0	53.0	26.0	65.0	21.0	61.0	72.0	24.0	54.5	54.5	47.0	63	47.5	36.0
EDGE	35.0	22.5	10.5	32.0	40.0	34.0	7.0	55.0	54.0	62.5	76.0	6.0	49.0	81	19.5	45.5
OMNI	49.0	53.5	36.0	29.0	58.0	57.0	85.0	6.5	26.0	59.5	26.0	74.0	15.0	55	68.5	38.0
SATURN II (ZPS-2ST)	25.0	44.5	52.0	82.0	48.0	62.0	44.0	46.0	55.0	40.0	32.0	18.0	75.0	31	64.0	69.0
R2 (ISI-R2)	65.0	22.5	6.5	15.0	15.0	13.0	61.0	17.0	33.0	52.0	26.0	62.0	54.0	30	4.0	73.0
CUTTER	56.0	53.5	67.0	51.0	31.0	43.0	34.0	53.0	30.5	38.0	79.0	28.0	57.0	85	42.5	48.5
STALLION SUPREME (PSI-E-1)	16.0	2.0	77.5	40.0	60.5	54.0	47.0	49.0	43.0	55.0	36.5	26.0	51.0	6	91.0	48.5

TABLE 3. (CONT'D)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA

1995-98 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	AR1	BC1	DC1	GA1	IA1	IL1	IL2	IN1	KS1	KY1	MA1	MD1	ME1	MI1	MO1	MO3
CITATION III (PST-2DGR)	51.0	71.5	22.5	88.0	81.0	84.0	49.0	57.0	36.0	30.5	11.0	82.0	34.0	96	82.0	13.0
ROADRUNNER (PST-2ET)	52.0	82.0	90.0	62.0	79.0	45.0	57.0	82.0	15.0	20.0	36.5	81.0	33.0	24	61.0	4.0
VIVID	26.0	28.5	74.5	7.0	10.5	50.0	37.0	48.0	57.0	52.0	83.5	19.5	67.0	22	44.5	48.5
ELF	84.0	32.5	4.0	78.0	29.5	36.0	82.0	89.0	69.0	73.0	76.0	76.0	36.0	73	18.0	56.5
PS-D-9	58.0	11.0	71.0	21.0	35.5	11.0	19.0	41.5	74.0	67.0	41.5	46.0	74.0	80	27.5	69.0
MORNING STAR	20.0	28.5	4.0	46.0	72.0	25.0	53.0	85.0	89.0	36.5	47.0	30.0	76.0	68	42.5	62.5
ADVANTAGE	74.0	32.5	52.0	76.0	49.5	71.0	29.0	66.5	50.0	33.0	36.5	70.5	32.0	72	83.0	65.0
ACADEMY (PC-93-1)	44.0	24.5	52.0	8.0	37.5	28.0	67.0	70.0	61.0	62.5	60.5	41.0	59.0	18	84.0	69.0
EXCEL (MB 1-5)	37.0	61.0	94.0	93.0	15.0	89.0	79.0	64.0	19.0	36.5	36.5	69.0	8.0	86	56.0	73.0
SPELL BOUND (WVPB-93-KFK)	39.0	70.0	17.0	34.0	15.0	40.0	55.0	60.0	75.0	67.0	67.0	36.0	56.0	83	19.5	62.5
KOOS 93-6	73.0	87.0	17.0	39.0	24.0	12.0	50.0	78.0	70.0	77.5	48.5	49.0	61.0	13	74.0	84.0
MVF-4-1	47.0	50.0	85.5	9.0	46.0	8.0	66.0	30.0	63.0	64.5	36.5	54.5	62.0	36	16.0	71.0
PRECISION	93.0	4.5	9.0	12.0	43.0	26.5	70.0	58.0	73.0	71.0	76.0	52.0	84.0	1	93.0	34.0
SR 4010 (SRX 4010)	54.0	11.0	4.0	23.0	13.0	52.0	60.0	50.0	78.0	67.0	64.5	43.5	86.0	45	30.5	65.0
ASP400 (APR 106)	90.0	56.5	6.5	33.0	32.0	63.0	80.0	69.0	61.0	82.0	71.0	6.0	70.0	44	25.0	45.5
PROTOCOL (KOOS 93-3)	24.0	8.5	45.5	65.0	66.0	60.0	64.0	83.0	84.0	57.5	50.5	56.5	38.0	27	53.5	79.0
BUCCANEER II (WVPB 92-4)	43.0	11.0	17.0	63.0	25.0	9.0	56.0	88.0	79.0	85.0	44.0	78.5	46.0	26	16.0	81.0
QUICKSTART	59.0	56.5	22.5	41.0	63.0	29.0	39.0	56.0	64.0	64.5	54.5	41.0	73.0	51	94.0	81.0
NOBILITY	42.0	20.5	26.5	59.0	22.0	67.0	30.0	66.5	45.0	76.0	71.0	47.5	90.0	43	68.5	86.0
APR 124	85.0	13.0	32.5	17.0	60.5	91.0	68.0	52.0	47.0	77.5	86.0	16.5	68.0	7	50.0	43.0
LEGACY II (LESCO-TWF)	83.0	66.5	85.5	92.0	68.5	83.0	16.0	74.0	65.0	18.5	89.5	88.0	60.0	91	87.0	22.0
STALLION SELECT	55.0	24.5	17.0	64.0	27.0	80.0	76.0	86.0	53.0	69.0	58.0	87.0	69.0	29	24.0	73.0
NIGHT HAWK	34.0	37.0	12.0	85.0	57.0	72.5	89.0	76.5	66.0	81.0	63.0	80.0	58.0	12	56.0	58.5
CAS-LP23	22.0	63.5	91.0	49.5	43.0	75.0	62.0	90.0	61.0	73.0	32.0	92.0	30.0	74	74.0	48.5
PST-2CB	63.0	26.0	8.0	22.0	52.0	24.0	83.0	91.0	83.0	57.5	60.5	78.5	81.0	60	53.5	60.0
WX3-91	81.5	76.5	77.5	58.0	90.5	48.0	54.0	81.0	49.0	55.0	80.5	26.0	72.0	53	78.5	35.0
EXPRESS	79.0	32.5	40.0	75.0	10.5	70.0	27.0	68.0	77.0	73.0	76.0	13.0	87.0	17	71.0	76.0
BAR ER 5813	28.0	44.5	67.0	80.0	46.0	78.0	77.0	62.0	87.0	89.0	2.0	72.5	53.0	94	78.5	91.0
WILLIAMSBURG	57.0	28.5	52.0	67.0	64.0	38.0	74.0	80.0	80.0	75.0	64.5	72.5	83.0	34	72.0	85.0
SATURN	50.0	1.0	1.5	89.0	76.0	30.0	87.0	63.0	68.0	87.0	40.0	83.0	63.0	16	52.0	88.5
NAVAJO	81.5	46.5	40.0	83.0	80.0	35.0	72.0	59.0	85.0	83.0	71.0	86.0	80.0	8	76.0	61.0
APR 131	95.0	16.5	40.0	25.0	83.0	74.0	75.0	73.0	81.0	80.0	89.5	14.5	88.0	70	88.0	81.0
STARDANCE (PST-2FE)	67.0	88.5	93.0	90.0	73.0	88.0	88.0	43.0	42.0	61.0	87.5	63.5	55.0	42	90.0	76.0
DANCER	69.0	61.0	29.0	71.0	43.0	33.0	81.0	65.0	88.0	90.0	54.5	38.0	65.5	23	64.0	83.0
WVPB-PR-C-2	72.0	66.5	32.5	19.0	54.0	47.0	86.0	87.0	82.0	84.0	87.5	58.5	85.0	2	80.0	67.0
APR 066	91.0	14.0	45.5	42.0	74.0	23.0	71.0	71.5	90.0	88.0	92.0	23.0	91.0	56	74.0	78.0
PEGASUS	61.0	7.0	45.5	56.0	77.5	87.0	84.0	79.0	91.0	86.0	85.0	90.0	77.0	38	89.0	88.5
NINE-O-ONE	48.0	86.0	88.0	61.0	89.0	93.0	90.0	76.5	40.0	79.0	95.0	93.0	71.0	84	95.0	40.5
DLP 1305	94.0	71.5	95.5	94.0	33.5	94.0	91.0	75.0	76.0	91.0	71.0	91.0	89.0	46	68.5	95.0
DSV NA 9402	88.0	16.5	22.5	84.0	82.0	85.0	92.0	92.0	95.0	92.0	94.0	70.5	94.0	11	85.0	93.0
FIGARO	86.0	56.5	17.0	47.0	86.0	95.0	94.0	93.0	94.0	93.0	93.0	94.0	92.0	4	92.0	90.0
DSV NA 9401	92.0	37.0	56.5	86.0	88.0	86.0	93.0	95.0	92.0	94.0	91.0	77.0	95.0	3	77.0	92.0
PENNFINE	89.0	37.0	52.0	96.0	94.5	49.0	95.0	94.0	93.0	95.0	76.0	95.0	93.0	78	47.5	94.0
LINN	96.0	96.0	83.5	95.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	90	96.0	96.0

1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 1.

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 3. (CONT'D)

 RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
 1995-98 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING 2/

NAME	NE1	NJ1	NJ2	OH1	OK1	PA1	QE1	RI1	UB1	UB2	VA1	WA1	WA3	WI1	MEAN
PALMER III (LRF-94-MPRH)	14.0	2	3.0	7.0	57.5	12.5	16.0	1.0	5.0	14.0	2	14.0	1.0	1.0	1
BRIGHTSTAR II (EST-2M3)	89.5	1	1.0	2.0	37.0	20.0	20.0	15.0	4.0	1.0	7	2.0	2.5	4.5	2
SECRETARIAT (RPED)	13.0	9	8.0	13.5	69.0	12.5	6.0	3.0	3.0	42.5	6	26.5	20.0	20.0	3
CALYPSO II	15.5	5	11.0	39.0	56.0	5.0	72.0	2.0	2.0	3.0	50	19.0	4.0	52.0	4
PREMIER II (BAR USA 94-II)	3.0	4	2.0	54.0	66.0	42.5	4.0	18.5	7.5	8.0	10	21.0	2.5	37.0	5
PENNANT II (MB 42)	6.0	13	6.0	24.0	57.5	19.0	18.0	73.0	25.0	5.0	59	11.0	6.0	59.0	6
MONTEREY (J-1706)	22.0	11	15.0	25.0	90.0	4.0	26.5	6.0	10.0	15.5	4	16.0	10.0	7.5	7
RADIANT (MB 44)	25.0	28	34.0	20.0	13.0	31.0	21.0	57.0	38.5	19.0	11	1.0	28.0	2.0	8
LINE DRIVE (MB 47)	40.5	10	9.0	6.0	11.0	32.5	29.0	13.0	57.0	50.0	16	9.0	23.0	24.5	9
ACCENT	1.0	29	40.0	51.0	1.0	34.0	83.5	42.0	9.0	13.0	24	57.0	37.5	37.0	10
PANTHER (ZPS-PR1)	18.5	3	13.0	29.0	62.0	44.0	32.0	4.0	22.0	26.0	25	33.0	8.0	10.5	11
CATALINA (PST-GH-94)	44.0	7	26.0	10.0	50.0	14.0	50.0	21.0	14.0	4.0	62	29.0	62.0	37.0	12
LRF-94-C8	69.0	12	22.0	32.0	48.5	62.0	14.0	83.0	59.5	12.0	3	3.0	44.0	7.5	13
SONATA (PST-2R3)	21.0	38	19.0	22.0	81.0	6.0	10.0	33.0	11.0	32.0	41	43.0	87.0	47.5	14
ASCEND (MB 45)	9.0	19	4.0	30.5	71.0	63.0	1.0	80.0	46.0	24.5	18	6.0	9.0	24.5	15
MAJESTY (MB 43)	17.0	21	10.0	21.0	67.0	28.0	19.0	81.0	43.5	23.0	82	10.0	18.0	91.0	16
TOP HAT	26.0	34	35.0	13.5	6.0	53.0	88.0	35.5	49.5	22.0	36	59.0	24.0	10.5	17
PRELUDE III (LRF-94-B6)	87.0	6	16.0	85.0	45.0	82.0	30.0	61.5	25.0	35.5	5	17.0	69.0	37.0	18
PRIZM	15.5	25	30.0	26.0	33.0	11.0	36.0	28.0	43.5	9.0	39	28.0	11.0	29.0	19
CIS-MBH (ISI-MHB)	2.0	35	37.0	11.0	27.0	18.0	38.0	8.0	12.5	33.5	38	40.0	12.0	37.0	20
CADDIESHACK (MED 5071)	4.0	23	17.0	27.0	17.0	70.0	83.5	27.0	1.0	2.0	21	66.0	79.0	24.5	21
LAREDO	5.0	18	20.0	3.0	3.0	35.0	42.5	46.0	15.0	7.0	48	36.0	5.0	12.0	22
REPELL III (LRF-94-C7)	39.0	8	25.0	77.0	29.0	85.0	75.0	79.0	66.0	24.5	14	7.0	31.0	52.0	23
MANHATTAN 3	34.0	14	29.0	5.0	15.0	27.0	48.0	56.0	31.5	10.5	8	15.0	77.0	18.5	24
SR 4200	40.5	47	33.0	52.0	24.0	24.0	13.0	7.0	62.0	60.5	40	47.0	15.0	47.5	25
PASSPORT (PST-2FF)	11.0	49	42.5	1.0	63.0	8.0	9.0	24.0	22.0	48.5	1	41.0	30.0	21.5	26
ESQUIRE	7.0	22	39.0	48.0	8.0	55.5	57.0	34.0	20.0	70.0	42	67.0	65.0	78.0	27
SUNSHINE (PICK LP 102-92)	55.0	20	32.0	49.5	16.0	50.0	77.0	12.0	19.0	17.0	23	24.0	53.5	37.0	28
BRIGHTSTAR	42.0	39	7.0	70.0	53.0	2.0	60.0	5.0	66.0	30.0	12	18.0	33.0	29.0	29
DIVINE	47.0	16	21.0	40.0	18.0	16.0	7.0	49.0	36.0	10.5	68	23.0	84.5	15.0	30
BLACKHAWK (TMI-EXFLP94)	56.0	53	48.0	82.0	4.0	21.0	32.0	30.0	78.0	44.5	56	72.0	25.5	37.0	31
MARDIGRAS (ZPS-2NV)	8.0	40	42.5	89.0	83.0	1.0	5.0	48.0	25.0	42.5	28	35.0	13.0	66.0	32
WIND DANCE (MB 46)	59.0	24	5.0	34.0	87.0	30.0	65.0	86.0	64.0	6.0	77	4.0	51.5	7.5	33
IMAGINE	52.0	32	38.0	62.0	51.0	61.0	67.5	84.0	18.0	33.5	43	5.0	7.0	37.0	34
SR 4400 (SRX 4400)	10.0	79	72.0	17.0	2.0	37.0	55.0	50.0	63.0	51.0	13	88.0	43.0	29.0	35
BLAZER III (PICK 928)	29.5	52	50.0	4.0	78.0	9.0	94.0	29.0	7.5	38.0	46	37.0	35.0	81.0	36
ACHIEVER	62.0	57	70.0	44.0	7.0	60.0	46.5	43.0	34.5	27.5	19	42.0	51.5	71.0	37
CHAPARRAL (PST-2DLM)	67.0	15	23.0	47.0	80.0	79.0	74.0	55.0	58.0	27.5	55	13.0	29.0	4.5	38
WX3-93	35.0	26	24.0	61.0	21.0	32.5	34.0	37.0	53.0	72.5	66	54.0	83.0	21.5	39
HEAD START (PICK PR 84-91)	12.0	43	44.0	67.0	26.0	10.0	70.0	23.0	12.5	31.0	57	39.0	74.0	92.0	40
ASSURE	46.0	68	53.0	56.0	23.0	55.5	92.0	10.0	6.0	46.5	33	68.0	34.0	54.0	41
OMEGA3 (ZPS-2DR-94)	24.0	27	62.0	46.0	25.0	65.0	8.0	9.0	34.5	46.5	67	34.0	16.0	47.5	42
WIND STAR (PST-28M)	82.0	33	60.0	87.0	72.0	45.0	15.0	39.0	30.0	29.0	47	45.0	32.0	56.0	43
TOP GUN (J-1703)	45.0	37	54.0	63.0	44.0	17.0	79.0	52.0	31.5	15.5	9	51.0	75.0	29.0	44
RIVIERA II	32.0	54	57.0	55.0	38.0	7.0	45.0	61.5	61.0	44.5	37	30.0	48.0	37.0	45
WIZARD (MB 41)	18.5	48	27.0	37.0	42.0	59.0	3.0	70.0	38.5	20.0	80	38.0	45.0	37.0	46
EDGE	77.0	46	68.0	41.0	41.0	75.0	66.0	16.0	66.0	72.5	32	47.0	27.0	47.5	47
OMNI	51.0	30	41.0	76.0	46.0	3.0	62.0	18.5	28.0	55.5	83	47.0	41.0	88.0	48
SATURN II (ZPS-2ST)	57.0	58	51.0	49.5	35.5	87.0	28.0	14.0	16.5	21.0	15	50.0	40.0	56.0	49
R2 (ISI-R2)	63.0	72	74.0	19.0	76.0	15.0	80.0	38.0	38.5	48.5	71	61.0	89.0	66.0	50
CUTTER	33.0	65	47.0	30.5	31.0	58.0	17.0	35.5	49.5	57.0	30	58.0	19.0	43.5	51
STALLION SUPREME (PSI-E-1)	58.0	63	79.0	68.5	32.0	67.0	39.5	22.0	29.0	59.0	44	65.0	59.5	75.0	52

TABLE 3. (CONT'D)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
GROWN AT THIRTY LOCATIONS IN THE U.S. AND CANADA
1995-98 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NE1	NJ1	NJ2	OH1	OK1	PA1	QE1	RI1	UB1	UB2	VA1	WA1	WA3	WI1	MEAN
CITATION III (PST-2DGR)	86.0	17	36.0	72.0	55.0	47.0	49.0	77.0	45.0	52.5	84	8.0	17.0	24.5	53
ROADRUNNER (PST-2ET)	80.0	42	45.0	15.0	47.0	76.0	91.0	74.0	16.5	18.0	75	22.0	63.5	59.0	54
VIVID	27.0	66	59.0	64.0	12.0	72.0	64.0	58.5	70.0	58.0	35	53.0	76.0	85.5	55
ELF	23.0	36	12.0	79.0	75.0	88.0	11.0	11.0	73.0	64.0	31	31.0	14.0	7.5	56
PS-D-9	50.0	71	86.0	36.0	39.0	25.0	63.0	54.0	33.0	35.5	65	81.0	59.5	66.0	57
MORNING STAR	68.0	70	56.0	75.0	10.0	29.0	25.0	53.0	79.5	75.0	17	69.0	47.0	62.0	58
ADVANTAGE	70.0	45	31.0	66.0	79.0	38.0	76.0	32.0	52.0	63.0	79	20.0	57.0	75.0	59
ACADEMY (PC-93-1)	36.0	77	84.0	73.0	9.0	26.0	26.5	20.0	81.0	65.5	22	79.5	63.5	66.0	60
EXCEL (MB 1-5)	37.0	56	18.0	60.0	68.0	51.0	22.0	78.0	56.0	69.0	89	12.0	21.0	59.0	61
SPELL BOUND (WVFB-93-KFK)	31.0	69	66.0	65.0	29.0	71.0	35.0	41.0	82.5	71.0	29	62.0	67.5	52.0	62
KOOS 93-6	28.0	55	52.0	68.5	64.0	40.0	52.0	44.0	47.5	40.0	20	71.0	66.0	88.0	63
MVF-4-1	43.0	59	77.0	43.0	60.0	81.0	81.0	26.0	68.0	40.0	27	87.0	42.0	75.0	64
PRECISION	29.5	50	49.0	59.0	88.0	46.0	85.0	17.0	55.0	67.0	58	49.0	25.5	66.0	65
SR 4010 (SRX 4010)	53.0	76	75.0	18.0	40.0	74.0	95.0	25.0	77.0	52.5	76	78.0	56.0	71.0	66
ASP400 (APR 106)	20.0	80	58.0	16.0	48.5	93.0	12.0	31.0	22.0	40.0	72	76.0	37.5	15.0	67
PROTOCOL (KOOS 93-3)	72.0	74	61.0	80.0	70.0	41.0	67.5	65.0	41.0	79.0	64	75.0	67.5	56.0	68
BUCCANEER II (WVFB 92-4)	54.0	83	89.0	28.0	20.0	73.0	2.0	45.0	71.5	76.0	51	90.0	53.5	69.0	69
QUICKSTART	84.0	73	65.0	23.0	43.0	36.0	42.5	75.0	54.0	37.0	54	52.0	92.0	81.0	70
NOBILITY	64.0	81	73.0	8.0	35.5	48.0	39.5	82.0	71.5	65.5	69	77.0	50.0	75.0	71
APR 124	65.5	31	76.0	88.0	73.0	77.0	89.0	66.0	75.5	62.0	87	32.0	36.0	15.0	72
LEGACY II (LESCO-TWF)	83.0	41	14.0	57.0	74.0	23.0	61.0	69.0	42.0	54.0	61	44.0	91.0	75.0	73
STALLION SELECT	79.0	61	28.0	84.0	19.0	89.0	51.0	60.0	85.0	81.0	34	73.0	72.0	81.0	74
NIGHT HAWK	78.0	44	46.0	38.0	34.0	66.0	53.0	71.0	86.0	89.0	53	60.0	46.0	81.0	75
CAS-LP23	71.0	67	80.0	91.0	65.0	69.0	46.5	58.5	82.5	80.0	78	26.5	84.5	29.0	76
PST-2CB	89.5	60	71.0	42.0	86.0	83.0	44.0	85.0	59.5	78.0	52	55.0	80.0	62.0	77
WX3-91	76.0	64	63.0	9.0	52.0	68.0	59.0	51.0	75.5	74.0	63	82.0	61.0	81.0	78
EXPRESS	75.0	84	88.0	71.0	61.0	54.0	32.0	47.0	79.5	85.0	74	70.0	49.0	93.0	79
BAR ER 5813	38.0	78	78.0	86.0	5.0	86.0	71.0	72.0	87.0	68.0	45	83.0	78.0	3.0	80
WILLIAMSBURG	73.0	89	85.0	33.0	14.0	78.0	23.0	87.0	47.5	77.0	26	89.0	72.0	47.5	81
SATURN	49.0	88	81.0	53.0	59.0	39.0	82.0	88.0	84.0	87.0	73	84.0	39.0	62.0	82
NAVAJO	60.0	75	69.0	12.0	91.0	22.0	37.0	64.0	69.0	86.0	49	74.0	72.0	71.0	83
APR 131	81.0	86	82.0	45.0	22.0	49.0	56.0	40.0	38.5	60.5	88	64.0	86.0	47.5	84
STARDANCE (PST-2FE)	74.0	51	55.0	35.0	92.0	90.0	58.0	89.0	27.0	55.5	85	25.0	93.0	43.5	85
DANCER	65.5	87	83.0	81.0	89.0	64.0	86.0	76.0	89.0	83.5	70	79.5	82.0	15.0	86
WVFB-PR-C-2	61.0	82	87.0	90.0	77.0	57.0	54.0	67.0	88.0	83.5	60	86.0	55.0	84.0	87
APR 066	88.0	90	90.0	92.0	29.0	52.0	24.0	68.0	51.0	82.0	81	85.0	94.0	88.0	88
PEGASUS	85.0	85	64.0	78.0	54.0	80.0	41.0	63.0	93.0	90.0	86	63.0	58.0	85.5	89
NINE-O-ONE	94.0	62	67.0	58.0	82.0	42.5	78.0	94.0	74.0	88.0	93	56.0	22.0	90.0	90
DLP 1305	48.0	91	91.0	74.0	85.0	84.0	73.0	93.0	90.5	95.0	90	92.0	88.0	15.0	91
DSV NA 9402	93.0	93	92.0	94.0	93.0	91.0	87.0	90.0	94.0	91.0	92	95.0	70.0	18.5	92
FIGARO	92.0	94	93.0	95.0	95.0	92.0	69.0	92.0	90.5	94.0	95	94.0	81.0	94.5	93
DSV NA 9401	95.0	95	94.0	93.0	94.0	94.0	90.0	91.0	95.0	92.0	94	93.0	90.0	37.0	94
PENNFINE	91.0	92	95.0	83.0	84.0	95.0	93.0	95.0	92.0	93.0	91	91.0	95.0	94.5	95
LINN	96.0	96	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96	96.0	96.0	96.0	96

1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 1.

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 FOR EACH YEAR GROWN IN THE U.S. AND CANADA
 1995-98 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	1995	1996	1997	1998	1995-98
PALMER III (LRF-94-MPRH)	6.5	6.4	6.2	6.0	6.3
BRIGHTSTAR II (PST-2M3)	6.4	6.3	6.2	6.0	6.2
SECRETARIAT (RPED)	6.3	6.2	6.2	6.0	6.2
CALYPSO II	6.3	6.3	6.2	5.9	6.2
PREMIER II (BAR USA 94-II)	6.4	6.3	6.0	5.8	6.2
PENNANT II (MB 42)	6.4	6.4	6.0	5.9	6.1
MONTEREY (J-1706)	6.3	6.2	6.1	5.9	6.1
RADIANT (MB 44)	6.2	6.3	6.0	5.9	6.1
LINE DRIVE (MB 47)	6.3	6.2	6.0	5.8	6.1
ACCENT	6.2	6.1	6.1	5.9	6.1
PANTHER (ZPS-PR1)	6.3	6.1	6.1	5.8	6.1
CATALINA (PST-GH-94)	6.3	6.2	6.0	5.9	6.1
LRF-94-C8	6.3	6.1	6.0	5.7	6.1
SONATA (PST-2R3)	6.3	6.1	5.9	5.8	6.0
ASCEND (MB 45)	6.3	6.3	5.8	5.6	6.0
MAJESTY (MB 43)	6.3	6.2	5.9	5.7	6.0
TOP HAT	6.2	6.1	6.0	5.7	6.0
PRELUDE III (LRF-94-B6)	6.1	6.1	6.0	5.8	6.0
PRIZM	6.2	6.0	6.0	5.8	6.0
CIS-MBH (ISI-MHB)	6.1	6.0	6.0	5.7	6.0
CADDIESHACK (MED 5071)	6.1	6.1	6.1	5.8	6.0
LAREDO	6.2	6.1	5.9	5.9	6.0
REPELL III (LRF-94-C7)	6.2	6.2	5.9	5.7	6.0
MANHATTAN 3	6.1	6.1	6.0	5.7	6.0
SR 4200	6.1	6.0	5.9	5.8	6.0
PASSPORT (PST-2FF)	6.1	6.0	6.0	5.7	6.0
ESQUIRE	6.0	6.0	6.0	5.7	6.0
SUNSHINE (PICK LP 102-92)	6.1	6.1	5.9	5.7	6.0
BRIGHTSTAR	6.1	6.0	5.9	5.6	6.0
DIVINE	6.1	6.1	5.8	5.6	5.9
BLACKHAWK (TMI-EXFLP94)	6.0	6.0	5.9	5.8	5.9
MARDIGRAS (ZPS-2NV)	6.1	6.0	5.9	5.7	5.9
WIND DANCE (MB 46)	6.2	6.1	5.8	5.5	5.9
IMAGINE	6.3	6.1	5.8	5.5	5.9
SR 4400 (SRX 4400)	5.9	6.0	5.9	5.8	5.9
BLAZER III (PICK 928)	6.0	6.0	5.8	5.6	5.9
ACHIEVER	5.9	6.0	5.9	5.8	5.9
CHAPARRAL (PST-2DLM)	6.2	6.0	5.8	5.5	5.9
WX3-93	6.0	5.9	5.8	5.6	5.9
HEAD START (PICK PR 84-91)	6.1	6.0	5.9	5.5	5.9
ASSURE	5.9	6.0	5.9	5.7	5.9
OMEGA3 (ZPS-2DR-94)	6.0	5.9	5.8	5.6	5.9
WIND STAR (PST-28M)	5.9	6.0	5.8	5.7	5.9
TOP GUN (J-1703)	5.9	6.0	5.9	5.7	5.9
RIVIERA II	6.0	6.0	5.9	5.6	5.9
WIZARD (MB 41)	6.0	6.0	5.8	5.5	5.9
EDGE	5.9	5.9	5.9	5.8	5.9
OMNI	6.0	5.9	5.8	5.6	5.9
SATURN II (ZPS-2ST)	6.0	5.9	5.8	5.6	5.8
R2 (ISI-R2)	5.9	5.8	5.9	5.5	5.8
CUTTER	6.0	5.9	5.9	5.6	5.8
STALLION SUPREME (PSI-E-1)	5.9	5.9	5.9	5.7	5.8

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH YEAR GROWN IN THE U.S. AND CANADA 1995-98 DATA TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	1995	1996	1997	1998	1995-98
CITATION III (PST-2DGR)	6.0	5.9	5.7	5.5	5.8
ROADRUNNER (PST-2ET)	5.9	5.9	5.8	5.5	5.8
VIVID	5.9	5.8	5.9	5.6	5.8
ELF	6.1	5.9	5.7	5.2	5.8
PS-D-9	5.8	5.9	5.8	5.6	5.8
MORNING STAR	5.8	5.9	5.7	5.6	5.8
ADVANTAGE	5.9	5.9	5.7	5.5	5.8
ACADEMY (PC-93-1)	5.9	5.8	5.8	5.6	5.8
EXCEL (MB 1-5)	6.1	6.0	5.6	5.1	5.8
SPELL BOUND (WVPB-93-KFK)	5.9	5.8	5.7	5.5	5.8
KOOS 93-6	5.9	5.9	5.7	5.6	5.8
MVF-4-1	5.9	5.8	5.8	5.6	5.8
PRECISION	5.9	5.7	5.7	5.5	5.7
SR 4010 (SRX 4010)	5.9	5.8	5.6	5.6	5.7
ASP400 (APR 106)	5.7	5.8	5.8	5.6	5.7
PROTOCOL (KOOS 93-3)	5.8	5.8	5.7	5.4	5.7
BUCCANEER II (WVPB 92-4)	5.7	5.7	5.7	5.6	5.7
QUICKSTART	5.8	5.8	5.7	5.4	5.7
NOBILITY	5.7	5.7	5.7	5.5	5.7
APR 124	5.8	5.7	5.7	5.4	5.7
LEGACY II (LESCO-TWF)	5.9	5.8	5.6	5.4	5.7
STALLION SELECT	5.7	5.7	5.7	5.4	5.7
NIGHT HAWK	5.9	5.8	5.6	5.0	5.7
CAS-LP23	5.7	5.7	5.6	5.4	5.6
PST-2CB	5.8	5.6	5.5	5.3	5.6
WX3-91	5.7	5.7	5.6	5.4	5.6
EXPRESS	5.7	5.7	5.6	5.4	5.6
BAR ER 5813	5.8	5.7	5.4	5.1	5.6
WILLIAMSBURG	5.7	5.7	5.6	5.4	5.6
SATURN	5.7	5.6	5.5	5.0	5.6
NAVAJO	5.8	5.6	5.6	5.2	5.6
APR 131	5.6	5.5	5.5	5.5	5.6
STARDANCE (PST-2FE)	5.9	5.6	5.4	5.2	5.5
DANCER	5.7	5.6	5.5	5.0	5.5
WVPB-PR-C-2	5.6	5.5	5.5	5.1	5.5
APR 066	5.6	5.5	5.3	5.3	5.5
PEGASUS	5.6	5.5	5.3	5.0	5.4
NINE-O-ONE	5.5	5.5	5.4	4.9	5.4
DLP 1305	5.2	5.2	5.0	4.4	5.1
DSV NA 9402	5.0	5.1	4.9	4.6	5.0
FIGARO	4.9	4.9	4.9	4.3	4.9
DSV NA 9401	4.8	4.9	4.9	4.5	4.9
PENNFINE	5.0	4.9	4.6	4.3	4.8
LINN	3.6	3.4	3.3	2.9	3.5
LSD VALUE	0.2	0.2	0.2	0.2	0.1
C.V. (%)	8.7	10.3	11.2	11.0	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 5. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
FOR EACH YEAR GROWN IN THE U.S. AND CANADA

1995-98 DATA
QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING 2/

NAME	1995	1996	1997	1998	1995-98
PALMER III (LRF-94-MPRH)	1	1	1	1	1
BRIGHTSTAR II (PST-2M3)	4	5	3	3	2
SECRETARIAT (R8BD)	7	8	2	2	3
CALYPSO II	5	6	4	4	4
PENNANT II (MB 42)	2	2	13	5	6
PREMIER II (BAR USA 94-II)	3	3	11	11	5
MONTEREY (J-1706)	11	11	5	6	7
RADIANT (MB 44)	19	4	19	8	8
CATALINA (PST-GH-94)	15	10	17	9	12
PANTHER (ZPS-PRI)	9	18	7	20	11
ACCENT	23	19	8	7	10
LINE DRIVE (MB 47)	12	9	20	22	9
SONATA (PST-2R3)	10	16	29	13	14
CADDIESHACK (MED 5071)	30	15	6	12	21
LRF-94-C8	13	14	16	29	13
MAJESTY (MB 43)	8	13	25	34	16
ASCEND (MB 45)	6	7	42	38	15
PRIZM	17	28	12	17	19
PRELUDE III (LRF-94-B6)	27	22	9	21	18
TOP HAT	20	17	15	32	17
LAREDO	21	26	27	10	22
CIS-MBH (ISI-MHB)	24	29	10	25	20
REPELL III (LRF-94-C7)	22	12	22	36	23
MANHATTAN 3	25	23	14	27	24
SUNSHINE (PICK LP 102-92)	29	21	35	26	28
SR 4200	34	31	33	18	25
ESQUIRE	37	33	21	23	27
PASSPORT (PST-2FF)	36	32	18	31	26
BLACKHAWK (TMI-EXFLP94)	41	38	37	16	31
MARDIGRAS (ZPS-2NV)	26	41	39	30	32
DIVINE	28	24	48	39	30
SR 4400 (SRX 4400)	55	35	26	15	35
IMAGINE	14	25	55	61	34
BRIGHTSTAR	33	27	34	50	29
ACHIEVER	54	36	31	19	37
WIND DANCE (MB 46)	18	20	56	67	33
ASSURE	61	34	28	24	41
TOP GUN (J-1703)	51	44	24	28	44
CHAPARRAL (PST-2DLM)	16	40	51	66	38
RIVIERA II	43	43	23	42	45
EDGE	60	49	36	14	47
HEAD START (PICK PR 84-91)	32	45	30	58	40
WIZARD (MB 41)	39	30	44	56	46
BLAZER III (PICK 928)	40	39	50	48	36
WIND STAR (PST-28M)	48	37	52	33	43
WX3-93	38	47	49	54	39
OMEGA3 (ZPS-2DR-94)	42	48	43	47	42
SATURN II (ZPS-2ST)	46	51	47	37	49
STALLION SUPREME (PSI-E-1)	56	56	38	35	52
CUTTER	45	57	32	55	51
OMNI	44	46	53	43	48
VIVID	50	60	40	44	55

TABLE 5. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) FOR EACH YEAR GROWN IN THE U.S. AND CANADA

1995-98 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	1995	1996	1997	1998	1995-98
R2 (ISI-R2)	52	62	41	62	50
ROADRUNNER (PST-2ET)	57	55	45	59	54
CITATION III (PST-2DGR)	47	52	65	64	53
PS-D-9	74	53	54	40	57
ACADEMY (PC-93-1)	53	65	58	46	60
KOOS 93-6	64	59	59	49	63
MVF-4-1	66	68	46	53	64
MORNING STAR	72	54	62	52	58
SPELL BOUND (WVPB-93-KFK)	65	61	60	57	62
ADVANTAGE	49	58	71	68	59
ASP400 (APR 106)	76	64	57	41	67
ELF	35	50	68	81	56
PRECISION	62	73	63	60	65
SR 4010 (SRX 4010)	63	67	75	51	66
BUCCANEER II (WVPB 92-4)	77	71	64	45	69
EXCEL (MB 1-5)	31	42	80	83	61
PROTOCOL (KOOS 93-3)	70	63	66	74	68
QUICKSTART	68	69	70	69	70
NOBILITY	80	72	61	63	71
LEGACY II (LESCO-TWF)	59	66	78	76	73
APR 124	71	77	67	73	72
STALLION SELECT	79	78	69	75	74
CAS-LP23	78	75	72	71	76
WX3-91	85	76	77	70	78
EXPRESS	82	79	74	72	79
WILLIAMSBURG	84	80	76	77	81
NIGHT HAWK	67	70	73	87	75
PST-2CB	73	83	83	79	77
NAVAJO	75	82	79	80	83
APR 131	87	86	84	65	84
BAR ER 5813	69	74	86	84	80
STARDANCE (PST-2FE)	58	84	87	82	85
SATURN	81	81	82	89	82
WVPB-PR-C-2	86	87	81	85	87
DANCER	83	85	85	86	86
APR 066	88	89	90	78	88
PEGASUS	89	88	89	88	89
NINE-O-ONE	90	90	88	90	90
DLP 1305	91	91	91	93	91
DSV NA 9402	93	92	92	91	92
DSV NA 9401	95	94	94	92	94
FIGARO	94	93	93	95	93
PENNFINE	92	95	95	94	95
LINN	96	96	96	96	96

- 1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 4.
- 2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TATBLE 9. WEAR TOLERANCE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/ 3/

NAME	NJ1	NAME	NJ1
BLACKHAWK (TMI-EXFLP94)	5.3	SATURN II (ZPS-2ST)	3.7
SUNSHINE (PICK LP 102-92)	5.3	SPELL BOUND (WVPB-93-KFK)	3.7
MANHATTAN 3	5.0	SR 4400 (SRX 4400)	3.7
MONTEREY (J-1706)	5.0	STALLION SELECT	3.7
PALMER III (LRF-94-MPRH)	5.0	WVPB-PR-C-2	3.7
WIND STAR (PST-28M)	5.0	ACCENT	3.3
CATALINA (PST-GH-94)	4.7	APR 131	3.3
EDGE	4.7	CHAPARRAL (PST-2DIM)	3.3
LRF-94-C8	4.7	CUTTER	3.3
PANTHER (ZPS-PR1)	4.7	EXPRESS	3.3
SR 4200	4.7	MAJESTY (MB 43)	3.3
ACADEMY (PC-93-1)	4.3	PS-D-9	3.3
ACHIEVER	4.3	REPELL III (LRF-94-C7)	3.3
BRIGHTSTAR II (PST-2M3)	4.3	WX3-93	3.3
CALYPSO II	4.3	APR 066	3.0
CIS-MBH (ISI-MHB)	4.3	BAR ER 5813	3.0
ESQUIRE	4.3	BLAZER III (PICK 928)	3.0
PENNANT II (MB 42)	4.3	ELF	3.0
PRIZM	4.3	LEGACY II (LESCO-TWF)	3.0
R2 (ISI-R2)	4.3	PASSPORT (PST-2FF)	3.0
RIVIERA II	4.3	PEGASUS	3.0
SR 4010 (SRX 4010)	4.3	PREMIER II (BAR USA 94-II)	3.0
STALLION SUPREME (PSI-E-1)	4.3	PST-2CB	3.0
VIVID	4.3	QUICKSTART	3.0
WX3-91	4.3	RADIANT (MB 44)	3.0
ASSURE	4.0	SATURN	3.0
MARDIGRAS (ZPS-2NV)	4.0	SONATA (PST-2R3)	3.0
MVF-4-1	4.0	TOP HAT	3.0
NIGHT HAWK	4.0	WIND DANCE (MB 46)	3.0
NOBILITY	4.0	ADVANTAGE	2.7
OMEGA3 (ZPS-2DR-94)	4.0	ASCEND (MB 45)	2.7
OMNI	4.0	BRIGHTSTAR	2.7
PRELUDE III (LRF-94-B6)	4.0	DSV NA 9402	2.7
ROADRUNNER (PST-2ET)	4.0	LINE DRIVE (MB 47)	2.7
SECRETARIAT (RPBD)	4.0	PENNFINE	2.7
TOP GUN (J-1703)	4.0	STARDANCE (PST-2FE)	2.7
WILLIAMSBURG	4.0	WIZARD (MB 41)	2.7
AER 124	3.7	DANCER	2.3
ASP400 (APR 106)	3.7	DLP 1305	2.3
BUCCANEER II (WVPB 92-4)	3.7	DSV NA 9401	2.3
CADDIESHACK (MED 5071)	3.7	EXCEL (MB 1-5)	2.3
CAS-LP23	3.7	HEAD START (PICK ER 84-91)	2.3
CITATION III (PST-2DGR)	3.7	LAREDO	2.3
DIVINE	3.7	FIGARO	2.0
IMAGINE	3.7	NINE-O-ONE	2.0
KOOS 93-6	3.7	LINN	1.7
MORNING STAR	3.7		
NAVAJO	3.7	LSO VALUE	1.8
PRECISION	3.7	C.V. (%)	30.4
PROTOCOL (KOOS 93-3)	3.7		

- 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/ WEAR TOLERANCE RATED IN 1998 ONLY.

TABLE 10.

 SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	AR1	BC1	IL1	IL2	IN1	KS1	KY1	MA1	MD1	MO3	NE1	OK1	PA1	RI1	UB1	UB2	WA1	WA3	MEAN
DSV NA 9402	6.7	3.7	7.0	6.0	6.7	8.3	8.7	4.3	7.0	8.0	7.7	7.0	8.0	6.0	8.7	6.0	7.0	8.3	6.9
SATURN	6.3	4.3	6.7	4.0	7.0	7.3	8.0	5.3	6.7	7.0	8.7	7.3	7.0	6.7	8.7	6.7	7.0	7.3	6.8
FIGARO	6.3	4.0	7.0	4.3	6.3	8.0	8.0	5.0	6.3	6.3	7.7	7.7	8.0	7.7	7.7	6.3	6.7	8.0	6.7
QUICKSTART	6.3	2.7	7.0	5.3	6.7	7.3	7.7	5.7	7.3	6.3	8.3	6.7	8.0	6.0	8.3	6.7	7.0	7.3	6.7
DSV NA 9401	7.0	3.7	5.7	6.0	6.0	8.7	8.7	4.3	6.7	7.0	7.7	6.7	8.0	5.3	8.3	6.0	7.3	7.7	6.7
PRECISION	6.3	3.3	6.0	5.0	6.3	7.0	8.0	5.0	6.7	7.0	8.7	7.0	6.7	7.0	8.3	6.7	7.0	8.3	6.7
ASSURE	6.3	3.3	7.0	4.7	6.3	7.7	8.3	5.3	6.3	6.7	8.3	7.0	8.0	7.0	7.3	6.7	6.7	7.0	6.7
SR 4200	6.7	2.3	7.0	5.0	6.0	6.7	8.0	6.0	6.7	7.0	8.0	6.7	7.7	6.3	8.7	7.0	7.0	6.7	6.6
ACCENT	5.7	3.0	7.3	3.7	7.0	7.0	7.7	5.7	7.3	7.3	9.0	6.7	7.7	7.0	7.7	6.3	7.0	6.0	6.6
BUCCANEER II (WVPB 92-4)	6.7	3.0	6.7	4.7	6.3	7.7	8.0	5.7	6.7	6.0	9.0	6.7	6.7	7.7	8.0	7.3	6.7	5.3	6.6
PEGASUS	6.7	3.0	6.7	5.0	6.3	8.0	7.3	4.7	6.0	7.0	8.3	6.3	7.7	6.7	8.0	7.0	7.3	6.7	6.6
EDGE	6.0	2.7	6.7	5.7	7.0	7.3	8.3	5.3	7.0	6.7	8.0	7.0	7.3	6.3	8.3	5.7	7.0	6.3	6.6
TOP HAT	5.7	3.0	7.3	4.7	5.7	7.3	8.3	6.7	7.0	5.3	9.0	6.3	6.3	7.0	7.7	7.0	6.7	7.0	6.6
CALYPSO II	6.3	3.0	6.0	4.3	7.0	7.3	7.3	6.3	6.3	6.3	8.7	6.7	6.0	7.3	8.0	6.7	7.3	6.7	6.5
NOBILITY	6.3	3.0	6.3	5.3	6.0	7.3	7.7	5.3	6.3	7.0	8.3	6.7	7.0	6.0	7.7	7.7	6.7	6.7	6.5
DANCER	5.7	3.0	6.7	4.7	6.0	7.7	8.3	5.0	6.0	7.3	7.7	6.7	7.3	6.0	8.3	7.3	6.7	7.0	6.5
CUTTER	5.7	3.3	6.0	5.0	7.0	6.7	8.3	5.7	6.3	7.7	9.0	6.7	6.7	6.0	8.0	6.3	7.0	6.0	6.5
MORNING STAR	6.7	2.7	6.7	3.7	6.3	7.7	8.0	5.7	6.7	7.3	8.3	6.7	7.0	7.3	7.3	6.0	6.7	6.7	6.5
EXPRESS	6.3	2.7	7.0	4.3	6.3	7.3	8.3	5.3	6.3	6.0	8.3	6.7	8.0	6.0	8.0	6.3	7.3	6.3	6.5
SR 4400 (SRX 4400)	6.0	2.7	6.0	5.7	7.3	7.0	7.0	6.0	6.7	6.0	8.0	6.3	6.7	7.0	8.7	6.7	7.3	6.0	6.5
CIS-MBH (ISI-MHB)	6.0	3.3	6.7	3.7	7.0	6.7	7.7	6.0	6.3	5.7	9.0	6.7	7.3	7.7	7.0	6.3	7.0	6.7	6.5
R2 (ISI-R2)	5.7	3.0	7.3	4.3	6.7	6.3	7.3	6.0	6.3	7.0	9.0	6.0	7.0	7.3	7.7	6.3	7.0	6.3	6.5
SECRETARIAT (RPBD)	5.7	3.0	6.0	4.7	5.7	6.7	8.3	6.3	6.7	5.7	8.0	7.0	7.3	7.0	8.3	6.7	6.7	6.7	6.5
BLAZER III (PICK 928)	5.7	2.3	6.7	5.0	7.0	7.3	7.3	5.7	6.7	6.3	8.7	6.7	7.3	6.0	7.7	6.7	6.7	6.0	6.4
PS-D-9	6.7	2.7	6.7	4.0	6.3	7.0	7.3	5.0	6.3	6.7	9.0	6.7	7.0	7.3	7.7	6.7	6.7	6.0	6.4
WIND STAR (PST-28M)	5.7	3.3	5.7	4.3	6.7	6.7	7.0	5.7	6.3	7.7	8.7	6.7	7.0	6.3	7.3	6.7	7.3	6.3	6.4
APR 131	6.3	3.0	6.3	5.3	6.7	6.7	7.3	5.0	6.3	7.0	9.0	6.7	6.3	7.7	7.3	6.0	6.7	5.0	6.4
NIGHT HAWK	6.0	2.7	5.3	5.0	6.3	7.3	7.7	6.7	6.7	5.3	8.7	6.3	7.7	6.7	8.0	6.3	6.7	5.3	6.4
STALLION SUPREME (PSI-E-1)	6.0	3.0	6.7	3.7	6.0	7.3	7.3	5.3	6.7	6.3	8.3	6.7	7.0	7.0	7.7	5.7	7.0	6.7	6.4
ELF	5.7	3.0	6.0	3.7	6.7	6.7	8.0	5.3	6.7	6.0	8.0	7.0	7.0	7.0	7.7	6.7	7.0	6.3	6.4
LINN	7.3	3.3	6.3	6.0	5.0	9.0	9.0	4.0	5.0	7.7	7.0	6.7	6.3	3.3	8.7	5.3	8.0	6.3	6.4
WILLIAMSBURG	6.3	3.0	6.3	4.3	6.7	7.0	7.3	4.7	6.7	6.3	8.7	6.3	7.0	6.7	8.0	6.7	7.0	5.3	6.4
PASSPORT (PST-2FF)	5.7	3.7	6.3	4.3	6.3	6.7	7.7	6.3	6.3	6.3	9.0	6.0	6.3	7.0	7.7	5.0	7.0	6.3	6.3
MARDIGRAS (ZPS-2NV)	6.3	3.0	6.0	4.7	6.0	6.3	7.3	6.3	6.3	6.0	8.3	6.3	7.0	7.0	7.3	5.7	6.7	7.0	6.3
SATURN II (ZPS-2ST)	6.3	3.3	5.0	3.7	6.7	7.0	7.3	6.0	7.0	6.0	9.0	6.3	7.0	6.7	7.0	5.7	7.0	6.3	6.3
APR 066	6.3	3.0	6.7	5.7	5.7	6.3	6.7	5.0	7.0	6.3	8.3	7.0	7.3	7.0	7.0	5.7	7.0	5.3	6.3
RIVIERA II	5.7	3.0	6.3	4.7	6.7	7.0	7.7	5.7	6.3	5.7	8.7	6.3	7.0	6.0	7.3	6.3	7.0	6.0	6.3
SPELL BOUND (WVPB-93-KFK)	6.0	2.7	6.0	4.3	6.7	7.7	7.7	5.3	6.3	5.7	8.7	7.0	7.0	5.7	7.3	5.7	6.7	6.7	6.3
OMEGA3 (ZPS-2DR-94)	6.0	3.3	5.0	3.7	6.3	7.3	7.3	5.7	6.7	6.0	8.7	5.7	6.0	7.3	8.0	6.0	7.0	7.0	6.3
PENNFINE	6.7	3.0	6.7	4.3	7.0	7.0	8.0	5.0	5.3	7.3	8.3	6.0	6.3	5.0	8.0	6.3	7.0	5.7	6.3
LAREDO	6.0	2.7	5.0	5.0	6.7	6.3	7.0	6.3	6.3	6.0	9.0	6.0	6.7	6.7	7.7	5.0	6.3	7.7	6.2
VIVID	5.7	3.0	5.7	4.7	6.3	7.0	7.0	5.7	7.0	6.7	9.0	6.7	6.3	5.7	7.3	6.0	7.0	5.7	6.2
BRIGHTSTAR	6.0	2.0	6.3	3.7	7.0	7.0	7.0	7.0	7.0	5.3	8.3	6.7	6.7	3.7	8.3	6.3	6.7	7.0	6.2
NAVAJO	6.3	2.3	5.7	3.7	6.7	6.7	7.7	5.7	6.7	4.7	8.7	6.7	7.0	7.3	7.7	5.3	7.0	6.3	6.2
OMNI	6.0	3.0	5.7	3.7	7.0	5.7	7.3	6.7	6.3	6.3	8.3	6.3	6.3	7.0	7.7	6.7	7.0	4.7	6.2
PST-2CB	5.3	3.7	6.0	4.0	6.3	6.7	7.3	5.3	6.3	6.7	8.3	7.0	7.3	6.0	7.7	5.7	7.0	5.0	6.2
ADVANTAGE	6.7	3.0	7.0	4.3	4.7	6.7	8.0	6.7	6.0	6.0	8.3	5.7	6.0	5.3	7.0	6.3	6.7	7.3	6.2
STALLION SELECT	7.0	3.0	5.3	4.0	6.3	8.0	7.3	5.0	6.7	5.7	7.3	6.0	7.0	6.7	7.0	6.7	7.3	4.7	6.2
MVF-4-1	5.7	3.0	6.0	3.3	6.7	6.3	6.7	5.7	6.7	6.7	9.0	6.3	5.7	6.7	7.7	6.3	7.3	5.3	6.2
WIZARD (MB 41)	5.3	2.7	6.0	4.7	6.0	5.7	6.7	7.7	6.0	6.3	8.0	6.3	6.7	6.3	7.7	6.0	7.0	5.7	6.1
WX3-91	6.0	2.0	5.3	4.7	6.3	6.3	7.3	5.3	7.0	7.0	8.7	6.7	6.0	6.7	6.7	5.3	7.0	6.0	6.1
ACADEMY (PC-93-1)	6.3	2.0	6.0	4.7	6.0	6.7	6.7	5.7	6.7	5.7	9.0	6.0	6.3	7.0	7.0	6.3	7.0	5.3	6.1

TABLE 10. (CONT'D)

 SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 1995-98 DATA
 SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR

NAME	AR1	BC1	IL1	IL2	IN1	KS1	KY1	MA1	MD1	MO3	NE1	OK1	PA1	RI1	UB1	UB2	WA1	WA3	MEAN
ASP400 (APR 106)	5.7	2.7	6.3	3.7	7.0	6.7	7.0	5.3	6.7	5.3	9.0	6.3	7.0	7.0	7.0	6.7	6.7	4.0	6.1
BLACKHAWK (TMI-EXELP94)	5.7	3.3	6.0	3.0	6.0	7.0	7.0	5.3	6.0	5.7	7.7	6.3	6.7	7.3	7.7	6.7	7.0	5.7	6.1
SR 4010 (SRX 4010)	6.0	2.7	5.7	3.3	6.3	6.3	7.0	5.0	6.0	6.0	7.7	6.7	7.7	7.0	6.7	6.7	6.7	6.7	6.1
WVPB-PR-C-2	6.7	2.3	5.7	4.7	6.0	7.7	8.3	4.7	6.3	4.3	8.3	6.0	6.7	6.0	7.3	6.0	6.7	6.3	6.1
MAJESTY (MB 43)	5.3	2.0	6.0	3.7	5.7	6.3	6.7	6.3	6.3	5.7	8.7	6.3	6.7	7.3	7.7	6.7	7.0	5.0	6.1
PREMIER II (BAR USA 94-II)	5.3	3.3	5.3	3.7	6.7	6.3	7.3	6.7	6.0	6.7	8.7	6.0	5.7	6.3	7.0	6.0	7.0	5.3	6.1
PROTOCOL (KOOS 93-3)	6.3	3.0	5.3	4.7	6.0	7.3	6.3	5.3	6.0	6.3	8.7	5.7	6.0	8.0	7.7	5.7	6.7	4.0	6.1
ESQUIRE	5.3	3.0	5.7	3.7	6.7	6.3	6.7	6.7	7.3	5.0	9.0	6.3	6.3	5.7	7.0	5.7	6.7	6.0	6.1
MANHATTAN 3	6.0	2.7	5.0	4.7	6.0	6.7	7.3	5.7	6.3	6.0	9.0	6.3	7.0	5.7	7.3	5.3	7.0	5.0	6.1
STARDANCE (PST-2FE)	5.7	2.0	5.3	4.7	6.3	6.7	6.7	6.3	6.7	6.3	8.3	6.0	7.0	5.3	7.7	6.0	6.7	5.3	6.1
APR 124	6.0	2.7	5.0	4.0	6.7	6.7	6.3	5.3	7.0	6.0	8.3	6.7	6.7	6.3	7.0	6.0	7.0	5.0	6.0
EXCEL (MB 1-5)	5.0	2.0	5.3	3.7	7.3	5.7	6.7	7.3	6.0	6.0	8.3	6.3	5.7	7.0	7.7	6.3	7.0	5.3	6.0
KOOS 93-6	6.0	3.0	6.3	4.3	6.0	7.0	6.7	5.3	6.7	5.0	8.7	6.3	6.0	6.7	7.7	5.7	7.0	4.3	6.0
PRIZM	6.0	2.7	5.7	4.0	7.0	6.0	7.0	5.7	6.7	6.0	8.7	6.7	5.7	5.7	7.0	6.0	6.7	5.3	6.0
DLP 1305	6.0	2.7	6.7	3.3	6.0	6.3	6.7	4.7	6.0	5.0	8.7	5.7	6.3	6.7	7.0	6.7	7.0	7.0	6.0
PALMER III (LRF-94-MPRH)	5.3	3.3	5.3	3.7	5.7	6.7	7.0	7.3	6.3	6.3	8.7	6.0	6.7	5.7	6.0	5.7	7.0	5.3	6.0
ASCEND (MB 45)	5.3	2.3	5.7	3.0	6.0	6.7	6.7	6.7	6.7	7.7	9.0	6.0	5.3	6.0	6.3	6.7	6.0	5.7	6.0
DIVINE	5.0	2.3	5.3	3.3	7.3	5.7	6.7	6.3	6.3	6.3	8.3	6.3	6.3	6.7	6.7	6.3	6.7	5.3	6.0
MONTEREY (J-1706)	6.3	2.3	6.0	3.7	6.7	6.7	6.7	5.3	6.7	6.0	8.3	6.0	6.3	6.3	7.7	5.7	7.0	3.7	6.0
PENNANT II (MB 42)	5.7	2.7	5.0	4.3	6.3	6.0	6.3	7.0	5.7	5.7	8.7	6.3	6.0	7.0	6.7	5.7	6.7	5.3	5.9
LINE DRIVE (MB 47)	6.0	3.0	6.0	3.3	5.7	6.7	6.3	6.3	6.0	5.3	8.0	6.0	6.0	6.7	6.3	6.0	7.3	5.7	5.9
BAR ER 5813	5.3	3.0	5.7	4.3	5.7	6.3	7.0	6.0	7.0	6.0	8.0	5.7	6.0	6.0	7.3	5.0	6.3	6.0	5.9
ROADRUNNER (PST-2ET)	6.0	2.0	5.7	4.0	5.7	6.7	8.0	6.0	6.0	5.7	8.3	6.3	5.7	5.7	6.7	5.3	6.7	5.7	5.9
CITATION III (PST-2DGR)	5.7	3.3	5.0	4.0	7.0	5.7	6.3	6.0	5.7	5.3	9.0	6.3	6.0	5.0	7.0	6.0	7.3	5.0	5.9
BRIGHTSTAR II (PST-2M3)	5.0	3.0	5.0	3.3	6.0	6.0	6.3	7.0	7.0	6.0	8.7	6.0	6.0	6.7	7.3	5.3	6.3	4.3	5.9
CATALINA (PST-GH-94)	5.3	2.0	5.3	4.3	7.0	6.0	7.0	6.7	6.3	6.0	7.7	6.0	6.0	6.0	7.3	5.0	6.7	4.7	5.9
LRF-94-C8	5.0	2.3	4.3	3.7	7.0	6.0	6.7	7.0	6.0	6.0	8.7	6.3	7.0	5.3	6.3	5.3	7.0	5.3	5.9
WX3-93	5.3	3.0	4.7	3.7	6.7	6.3	6.7	6.0	7.0	5.7	9.0	6.0	6.3	6.7	6.3	5.3	6.3	4.3	5.9
CHAPARRAL (PST-2DIM)	5.0	2.7	6.0	4.0	7.0	5.7	7.3	6.3	6.0	5.7	9.0	6.0	6.0	5.7	6.7	4.3	6.7	4.7	5.8
ACHIEVER	5.7	2.3	5.3	4.3	5.7	6.0	6.7	5.7	6.7	4.7	8.3	6.0	5.7	6.0	7.0	5.7	7.0	5.7	5.8
SONATA (PST-2R3)	5.7	2.7	5.7	4.3	6.7	6.3	6.7	5.7	6.3	4.0	9.0	6.7	5.7	5.0	7.0	5.3	6.7	5.0	5.8
CAS-LP23	6.0	3.0	5.3	4.3	6.0	6.7	6.7	5.3	6.0	6.0	8.0	5.7	5.3	6.3	6.7	5.0	6.7	5.3	5.8
SUNSHINE (PICK LP 102-92)	5.3	2.7	5.0	3.3	6.3	6.0	6.7	6.3	5.7	5.3	8.7	6.0	5.7	6.3	7.3	5.0	6.7	5.7	5.8
REPELL III (LRF-94-C7)	5.0	2.7	4.7	4.3	6.3	5.3	7.0	6.7	6.3	6.0	8.7	6.3	5.7	6.0	6.7	5.0	6.3	4.0	5.7
WIND DANCE (MB 46)	5.0	3.0	5.0	3.0	6.3	6.3	6.0	7.3	6.3	5.0	8.3	6.3	6.0	5.3	6.3	6.0	6.3	5.0	5.7
TOP GUN (J-1703)	5.7	2.3	5.3	3.3	6.3	6.3	6.7	5.3	6.0	4.7	8.0	6.0	5.3	6.0	6.7	5.3	7.0	5.3	5.6
LEGACY II (LESCO-TWF)	6.0	2.0	4.7	4.3	4.3	6.0	7.0	6.0	6.3	6.3	9.0	5.3	5.0	6.0	7.0	4.7	6.7	4.7	5.6
PANTHER (ZPS-PR1)	5.7	2.0	5.0	3.0	7.0	6.3	5.7	6.3	6.0	5.7	8.3	6.0	5.0	6.3	7.3	4.7	6.3	4.7	5.6
RADIANT (MB 44)	4.7	2.3	4.7	3.0	5.3	6.3	6.0	7.0	5.7	4.3	9.0	5.7	6.0	6.0	7.3	5.3	6.7	5.3	5.6
HEAD START (PICK ER 84-91)	5.3	2.3	4.7	3.7	6.3	5.7	5.7	5.3	6.7	6.7	9.0	5.3	5.3	6.0	7.0	4.7	6.7	3.7	5.6
IMAGINE	5.0	2.7	5.7	3.7	6.7	5.7	6.0	6.7	6.0	5.0	8.7	5.7	5.7	6.0	6.3	4.7	6.7	3.3	5.6
PRELUDE III (LRF-94-B6)	5.0	2.0	5.0	3.3	7.3	5.3	7.3	6.3	6.7	5.7	9.0	6.0	5.3	5.0	6.0	4.3	6.0	4.0	5.5
CADDIESHACK (MED 5071)	5.3	2.7	4.7	3.0	6.0	7.0	5.7	6.0	6.7	5.7	8.3	6.0	5.7	5.0	6.3	4.7	6.0	4.7	5.5
NINE-O-ONE	6.0	2.3	5.3	3.3	6.0	5.3	7.3	6.0	5.0	5.0	9.0	5.7	5.0	4.0	6.3	4.7	6.7	6.0	5.5
LSD VALUE	1.0	1.1	1.2	2.4	1.3	1.0	1.1	1.1	1.2	2.4	1.3	1.0	1.4	1.5	1.2	1.4	0.8	2.0	0.3
C.V. (%)	10.3	24.6	12.9	35.8	13.0	9.6	9.2	12.3	12.0	24.0	9.2	9.4	13.1	14.6	10.4	14.8	7.3	21.3	14.4

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.

TABLE 11. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	GA1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
CALYPSO II	8.3	4.8	8.0	8.5	8.2	7.8	5.8	6.3	7.2
CIS-MBH (ISI-MHB)	8.3	4.8	7.0	9.0	8.0	8.0	6.4	5.7	7.1
MONTEREY (J-1706)	8.0	4.8	7.7	8.8	8.1	7.2	6.3	6.2	7.1
LINE DRIVE (MB 47)	8.3	4.6	8.1	8.7	7.8	7.3	6.1	5.8	7.1
PALMER III (LRF-94-MPRH)	7.3	4.6	7.9	8.8	8.0	7.3	6.4	6.1	7.1
RADIANT (MB 44)	9.0	4.3	7.0	8.5	7.8	7.8	6.1	5.9	7.1
ASCEND (MB 45)	8.0	4.6	7.8	8.3	7.8	7.3	6.7	6.0	7.1
PENNANT II (MB 42)	8.0	4.6	7.4	8.7	7.8	7.2	6.3	6.3	7.0
PANTHER (ZPS-PR1)	7.7	4.7	7.7	8.8	7.8	7.1	6.5	6.1	7.0
SECRETARIAT (RPBD)	8.0	5.0	7.3	8.8	7.4	7.8	6.5	5.4	7.0
IMAGINE	8.7	4.6	7.0	8.2	8.2	7.3	5.7	6.5	7.0
MARDIGRAS (ZPS-2NV)	7.7	4.3	7.2	8.3	7.7	8.0	6.7	6.1	7.0
OMNI	7.0	4.9	7.8	8.7	7.9	8.2	5.8	5.6	7.0
OMEGA3 (ZPS-2DR-94)	8.3	4.4	7.3	8.5	8.0	7.0	6.5	5.7	7.0
PRIZM	7.3	4.7	7.6	8.5	7.9	7.4	6.6	5.8	7.0
PREMIER II (BAR USA 94-II)	8.7	4.4	6.8	8.7	7.6	7.7	6.0	5.9	7.0
SUNSHINE (PICK LP 102-92)	8.7	4.1	7.3	8.8	7.8	7.1	6.0	5.8	7.0
ACCENT	7.7	4.3	7.6	9.0	8.1	7.7	5.7	5.7	7.0
BRIGHTSTAR	7.7	4.2	7.7	8.5	8.0	8.0	5.9	5.6	6.9
BRIGHTSTAR II (PST-2M3)	8.7	4.6	7.6	7.7	7.8	7.4	5.7	6.2	6.9
WX3-93	8.0	4.3	7.7	8.5	8.1	7.4	6.2	5.3	6.9
LAREDO	7.7	4.3	7.2	8.7	8.0	7.3	6.3	5.9	6.9
SONATA (PST-2R3)	7.3	4.3	7.7	9.0	7.9	7.3	6.7	5.2	6.9
CADDIESHACK (MED 5071)	8.7	4.3	7.6	8.8	7.8	7.0	5.3	5.8	6.9
ESQUIRE	8.0	4.4	7.2	9.0	8.1	7.1	6.0	5.5	6.9
HEAD START (PICK PR 84-91)	8.3	4.3	7.2	8.7	7.8	7.6	5.7	5.6	6.9
PASSPORT (EST-2FF)	7.7	4.4	7.2	8.5	7.8	7.3	6.7	5.6	6.9
WIND DANCE (MB 46)	8.7	4.1	6.8	8.3	7.7	7.7	6.1	5.8	6.9
ELF	8.0	4.4	7.2	8.3	7.9	6.7	6.8	5.7	6.9
MAJESTY (MB 43)	8.0	4.6	6.8	8.3	7.8	7.2	6.5	5.8	6.9
RIVIERA II	8.3	4.4	7.3	8.5	7.6	7.1	6.3	5.5	6.9
SATURN II (ZPS-2ST)	7.7	4.3	7.3	8.3	7.8	7.2	6.6	5.8	6.9
EXCEL (MB 1-5)	8.0	4.0	6.2	8.5	8.0	7.9	6.8	5.6	6.9
PRELUDE III (LRF-94-B6)	8.0	4.4	8.0	8.3	7.8	6.9	6.5	5.0	6.9
ASP400 (AER 106)	7.3	5.0	7.0	8.7	7.6	7.1	6.4	5.8	6.9
LRF-94-C8	7.3	4.1	7.7	8.3	7.8	7.6	6.5	5.6	6.9
CATALINA (EST-GH-94)	7.3	4.4	7.4	8.5	7.9	7.2	6.0	5.8	6.8
WIZARD (MB 41)	7.3	4.8	7.0	8.8	7.7	7.3	6.2	5.4	6.8
DIVINE	8.0	4.4	6.0	8.5	8.2	7.6	6.4	5.3	6.8
SR 4200	7.7	4.6	6.6	8.2	8.2	7.3	6.0	5.8	6.8
SR 4400 (SRX 4400)	6.7	4.7	6.6	9.0	8.1	7.0	6.6	5.7	6.8
TOP HAT	7.3	4.6	6.8	8.5	8.2	7.1	5.7	6.0	6.8
STALLION SUPREME (PSI-E-1)	7.3	4.3	6.9	8.8	7.8	7.1	6.3	5.4	6.8
ACADEMY (PC-93-1)	7.3	5.0	6.9	8.2	7.7	7.1	6.3	5.6	6.8
BLAZER III (PICK 928)	8.0	4.7	6.9	8.3	7.8	7.7	4.9	5.8	6.7
APR 124	8.0	4.9	7.3	8.5	7.8	6.4	5.4	5.6	6.7
BAR ER 5813	7.3	4.3	6.7	8.5	8.6	6.9	6.2	5.4	6.7
CITATION III (PST-2DGR)	7.7	4.2	7.6	8.0	8.1	6.8	6.1	5.4	6.7
CUTTER	7.7	4.3	7.4	8.2	7.8	6.4	6.3	5.7	6.7
BLACKHAWK (TMI-EXFLP94)	6.7	5.0	7.1	8.5	8.1	6.7	6.1	5.6	6.7
PS-D-9	7.0	4.8	7.4	8.5	7.2	7.2	5.9	5.6	6.7
CHAPARRAL (PST-2DLM)	9.0	4.4	6.6	7.8	7.7	7.3	5.6	5.2	6.7

TABLE 11. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) 1995-98 DATA
 DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	GA1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
TOP GUN (J-1703)	7.7	4.2	7.7	8.5	7.6	6.8	5.8	5.3	6.7
REPELL III (LRF-94-C7)	7.7	4.3	7.1	8.7	7.7	6.4	5.7	5.8	6.7
LEGACY II (LESCO-TWF)	7.7	4.4	7.8	7.8	7.3	7.6	6.1	4.8	6.7
MANHATTAN 3	8.0	4.1	7.0	8.7	7.8	6.8	5.9	5.1	6.7
ADVANTAGE	8.3	4.1	7.0	8.3	7.4	7.3	5.6	5.2	6.7
BUCCANEER II (WVPB 92-4)	7.0	4.4	6.7	8.5	7.8	6.7	6.6	5.7	6.7
CAS-LP23	8.3	4.3	6.9	8.2	7.3	7.1	6.0	5.2	6.7
APR 131	7.0	4.8	7.2	8.2	7.8	6.9	6.2	5.3	6.7
DANCER	7.7	4.7	7.1	8.3	7.6	6.8	5.7	5.4	6.7
NAVAJO	7.0	4.2	6.8	8.7	7.3	7.3	6.2	5.7	6.6
PEGASUS	7.3	4.8	6.8	8.3	7.6	6.7	6.0	5.6	6.6
PRECISION	6.7	4.8	7.6	8.3	7.7	6.8	5.6	5.7	6.6
KOOS 93-6	6.7	4.7	6.8	8.8	7.3	7.2	5.8	5.5	6.6
SPELL BOUND (WVPB-93-KFK)	6.3	4.7	6.6	8.5	7.8	6.6	6.4	5.9	6.6
MORNING STAR	6.7	4.6	6.9	8.3	7.6	6.8	6.3	5.6	6.6
VIVID	6.0	4.7	7.3	8.2	8.0	7.1	5.9	5.4	6.6
WVPB-PR-C-2	6.3	4.8	6.7	8.7	7.2	6.9	6.4	5.7	6.6
NIGHT HAWK	7.7	4.3	6.2	8.2	7.4	7.1	6.0	5.7	6.6
APR 066	6.0	4.9	7.0	8.3	8.1	7.1	6.7	4.4	6.6
DLP 1305	7.0	3.8	6.1	8.8	7.8	7.4	5.9	5.6	6.6
WX3-91	6.7	4.6	7.2	8.5	7.9	6.4	5.9	5.2	6.5
R2 (ISI-R2)	7.0	4.9	7.0	8.2	7.6	6.9	5.8	5.1	6.5
ACHIEVER	6.3	4.7	7.6	8.3	7.4	6.3	6.1	5.5	6.5
SR 4010 (SRX 4010)	7.0	4.3	6.9	8.3	8.2	6.7	5.4	5.4	6.5
MVF-4-1	6.7	4.7	6.8	8.5	7.4	6.6	5.9	5.6	6.5
WIND STAR (PST-28M)	7.7	4.3	6.3	7.7	7.3	7.2	6.0	5.4	6.5
WILLIAMSBURG	6.3	4.8	7.2	8.5	7.3	6.3	6.3	5.2	6.5
EXPRESS	6.3	4.6	7.1	8.3	7.1	6.6	6.2	5.6	6.5
ASSURE	6.3	4.6	6.7	8.7	7.7	6.7	5.7	5.5	6.5
EDGE	6.0	4.4	7.1	8.3	7.5	6.3	6.1	5.8	6.5
STALLION SELECT	6.3	4.4	6.3	8.3	7.5	6.8	6.3	5.5	6.4
SATURN	6.3	4.6	6.7	8.3	7.2	6.6	5.8	6.0	6.4
NOBILITY	5.7	4.8	7.0	8.7	7.3	6.7	6.1	5.2	6.4
PROTOCOL (KOOS 93-3)	6.3	4.8	6.7	8.2	7.3	6.8	5.8	5.6	6.4
PST-2CB	7.3	4.6	6.2	8.5	7.4	6.4	5.9	4.9	6.4
QUICKSTART	6.7	4.7	6.6	8.0	7.4	6.7	6.3	4.7	6.4
ROADRUNNER (PST-2ET)	7.0	4.4	7.7	8.2	7.3	6.1	5.3	4.8	6.4
FIGARO	7.3	4.8	6.0	8.0	6.8	6.9	5.6	5.4	6.3
DSV NA 9402	5.7	5.2	6.2	8.3	7.2	7.1	5.4	5.5	6.3
NINE-O-ONE	6.0	4.2	7.2	7.8	6.8	6.4	6.2	5.9	6.3
STARDANCE (PST-2FE)	6.7	4.3	6.3	8.0	8.0	6.3	5.8	4.7	6.3
DSV NA 9401	5.7	4.6	5.8	8.2	7.5	6.4	6.2	5.3	6.2
PENNFINE	6.0	4.4	6.3	8.0	6.6	5.9	6.4	4.8	6.1
LINN	3.3	4.4	4.1	5.8	5.1	4.3	4.8	3.8	4.5
LSD VALUE	1.5	1.1	1.0	0.8	0.6	0.8	1.3	0.8	0.4
C.V. (%)	12.4	26.2	14.7	8.0	10.4	12.3	26.2	18.8	16.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

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

TABLE 12.

 SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	GA1	IL1	MO1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
PALMER III (LRF-94-MPRH)	6.2	3.8	6.7	5.7	6.4	8.2	6.7	7.7	8.2	7.9	6.7
CIS-MBH (ISI-MHB)	6.9	3.8	6.0	6.7	5.9	8.2	7.3	6.7	7.9	7.7	6.7
PRIZM	6.4	3.2	6.0	6.7	5.8	8.3	7.3	7.7	7.8	7.5	6.7
RIVIERA II	6.8	3.7	6.0	6.7	5.4	8.2	6.7	8.3	7.7	7.3	6.7
TOP HAT	6.7	3.7	6.0	7.3	5.6	8.3	7.6	6.7	7.3	7.6	6.7
SR 4400 (SRX 4400)	6.9	4.0	6.0	5.7	5.3	8.5	7.8	7.0	8.0	7.3	6.7
ASCEND (MB 45)	6.8	3.8	6.0	6.3	6.1	7.8	6.7	7.7	7.9	7.4	6.7
SR 4200	6.4	3.8	6.0	6.3	5.1	7.8	7.6	7.7	8.0	7.6	6.6
LINE DRIVE (MB 47)	7.4	3.8	5.3	6.0	6.6	7.8	7.3	7.7	7.2	7.1	6.6
REPELL III (LRF-94-C7)	6.7	4.0	5.7	7.0	5.6	8.3	6.8	7.7	7.3	7.3	6.6
BLACKHAWK (TMI-EXFLP94)	6.8	4.0	5.7	6.3	5.4	7.8	7.8	7.7	7.4	7.2	6.6
CUTTER	6.0	4.0	6.0	7.0	5.6	8.3	6.7	7.3	7.6	7.5	6.6
PENNANT II (MB 42)	6.6	3.8	5.7	6.7	6.0	8.0	6.3	7.7	7.8	7.5	6.6
SECRETARIAT (RPBD)	6.8	4.2	6.3	6.0	5.4	8.5	6.5	7.0	7.9	7.3	6.6
ACCENT	6.7	3.8	6.3	6.7	5.2	8.3	7.8	7.0	7.0	7.0	6.6
MORNING STAR	6.1	4.2	5.7	7.0	5.1	7.5	7.3	8.0	7.7	7.2	6.6
WX3-93	6.2	3.8	6.0	6.7	5.8	8.2	7.3	7.0	7.8	7.0	6.6
BRIGHTSTAR	6.8	3.8	6.0	6.0	6.4	7.5	7.3	6.7	7.7	7.4	6.6
ACADEMY (PC-93-1)	6.2	4.0	6.0	6.0	5.3	7.8	7.8	7.3	7.9	7.1	6.6
SATURN II (ZPS-2ST)	7.1	3.7	6.0	6.0	5.8	8.3	7.3	6.7	7.6	7.1	6.6
WIZARD (MB 41)	7.3	4.2	5.0	6.3	5.4	8.0	6.8	7.3	7.9	7.2	6.6
PASSPORT (PST-2FF)	6.4	4.0	6.7	5.3	5.8	8.0	6.6	7.3	7.9	7.4	6.5
HEAD START (PICK PR 84-91)	6.8	4.0	5.3	7.0	5.3	8.0	7.0	7.3	7.3	7.3	6.5
PREMIER II (BAR USA 94-II)	6.9	3.7	5.7	6.3	5.6	8.5	6.5	7.0	7.6	7.8	6.5
CALYPSO II	6.7	3.8	6.3	6.0	6.0	7.8	6.7	7.0	7.3	7.7	6.5
NOBILITY	6.8	3.7	5.7	6.3	5.3	8.0	7.1	7.3	7.8	7.2	6.5
BLAZER III (PICK 928)	7.3	3.8	6.7	6.3	5.0	7.8	6.5	7.7	6.8	7.3	6.5
SONATA (PST-2R3)	7.1	3.7	6.0	5.7	6.0	8.5	6.7	7.0	7.8	6.8	6.5
MARDIGRAS (ZPS-2NV)	6.2	4.0	5.3	6.3	5.8	7.8	6.5	7.3	8.3	7.5	6.5
VIVID	6.1	4.0	5.3	6.0	6.0	7.3	7.5	7.7	7.8	7.3	6.5
MONTEREY (J-1706)	6.2	3.8	6.0	6.0	6.3	8.2	6.4	7.0	7.6	7.5	6.5
MANHATTAN 3	6.6	3.8	5.0	6.3	5.6	8.3	7.4	7.3	7.6	6.9	6.5
SUNSHINE (PICK LP 102-92)	6.4	4.2	6.0	6.7	5.7	8.0	6.9	6.7	7.3	7.1	6.5
PANTHER (ZPS-PR1)	6.6	3.8	4.7	6.0	6.0	8.3	6.8	7.3	7.8	7.5	6.5
BUCCANEER II (WVPB 92-4)	6.2	3.8	5.0	6.3	5.7	7.5	7.2	8.0	8.1	7.0	6.5
LRF-94-C8	6.8	3.8	4.7	6.7	6.1	7.8	6.7	7.3	7.8	7.1	6.5
PS-D-9	6.7	3.8	5.3	6.0	5.9	8.0	6.8	7.7	7.4	7.0	6.5
CADDIESHACK (MED 5071)	6.7	4.0	5.7	6.3	5.8	8.2	7.3	6.3	7.3	7.1	6.5
LAREDO	5.3	3.7	5.3	6.3	5.8	8.2	7.5	7.3	7.8	7.4	6.5
BRIGHTSTAR II (PST-2M3)	6.3	3.3	6.0	6.0	5.9	7.8	7.0	7.3	7.2	7.6	6.4
SPELL BOUND (WVPB-93-KFK)	6.0	3.7	5.3	6.3	5.2	8.3	7.3	7.7	7.9	6.7	6.4
SATURN	5.7	4.4	5.7	7.0	4.8	8.0	6.9	7.7	7.2	7.2	6.4
BAR ER 5813	6.3	3.5	5.3	6.0	4.7	8.2	7.9	8.0	7.4	7.1	6.4
QUICKSTART	6.3	3.8	5.3	6.3	5.0	8.2	7.2	8.0	7.7	6.5	6.4
IMAGINE	6.1	4.0	6.0	5.3	5.7	8.3	7.2	7.0	6.9	7.8	6.4
CATALINA (PST-GH-94)	6.6	3.0	6.0	6.0	5.4	8.2	7.0	7.7	7.3	7.2	6.4
OMNI	6.3	3.8	6.0	5.3	6.0	7.2	7.3	7.7	7.2	7.4	6.4
WIND STAR (PST-28M)	6.4	3.7	6.0	6.3	4.8	7.2	6.9	7.3	8.1	7.4	6.4
ASSURE	6.3	4.0	5.7	5.7	5.0	8.2	7.5	7.3	7.2	7.3	6.4
MVF-4-1	6.1	3.8	5.3	6.3	5.4	7.8	6.7	7.7	7.5	7.3	6.4
RADIANT (MB 44)	7.4	3.5	5.3	6.3	5.4	8.2	7.2	5.7	7.6	7.3	6.4
TOP GUN (J-1703)	6.6	3.5	5.3	6.7	5.9	7.5	7.3	7.3	7.1	6.7	6.4

TABLE 12. (CONT'D)

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS

1995-98 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	GA1	IL1	MO1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
ACHIEVER	5.8	4.0	5.3	6.3	5.9	7.8	7.2	7.0	7.3	7.3	6.4
EDGE	6.4	4.0	6.0	6.3	5.7	7.3	6.5	7.0	7.4	7.1	6.4
MAJESTY (MB 43)	6.8	3.7	5.3	5.7	5.4	7.7	6.4	7.3	7.8	7.6	6.4
ELF	5.3	3.7	5.7	6.0	5.2	8.3	6.7	7.3	8.0	7.5	6.4
PRELUDE III (LRF-94-B6)	6.7	3.5	5.3	5.7	6.4	7.7	7.0	7.0	7.5	6.9	6.4
STALLION SUPREME (ESI-E-1)	6.1	3.8	5.3	5.7	5.2	7.7	7.5	7.7	7.8	6.8	6.4
ASP400 (APR 106)	5.7	4.0	5.3	5.7	5.6	8.2	7.0	7.0	7.8	7.4	6.4
OMEGA3 (ZPS-2DR-94)	5.9	3.5	4.3	6.0	5.9	8.2	7.2	7.3	7.8	7.5	6.4
KOOS 93-6	5.8	4.0	5.0	6.0	5.7	8.2	6.8	7.7	7.4	7.0	6.3
R2 (ISI-R2)	6.1	3.8	5.3	7.0	5.7	7.7	6.8	6.3	7.3	7.3	6.3
DIVINE	5.6	3.7	5.0	6.3	4.7	7.8	7.4	8.0	7.7	7.1	6.3
PRECISION	5.1	3.8	6.0	5.7	6.3	8.0	6.2	7.3	7.4	7.3	6.3
WX3-91	6.3	4.0	5.0	6.0	5.7	7.3	6.9	7.3	7.3	7.2	6.3
ESQUIRE	5.6	4.2	5.3	6.0	5.2	7.8	7.1	7.3	7.3	7.2	6.3
APR 066	5.4	4.2	5.7	5.7	5.6	7.3	7.3	7.3	7.8	6.8	6.3
SR 4010 (SRX 4010)	6.4	3.3	5.3	6.3	5.6	8.0	7.2	6.7	7.2	7.0	6.3
WILLIAMSBURG	5.7	3.8	5.7	6.0	5.4	8.0	7.3	6.3	7.8	6.8	6.3
CITATION III (PST-2DGR)	6.3	3.3	5.7	5.0	5.8	8.0	7.0	7.0	7.3	7.3	6.3
NAVAJO	5.9	3.7	6.3	5.7	5.1	7.5	6.5	7.3	7.8	6.9	6.3
STALLION SELECT	6.0	3.8	5.0	6.3	4.6	7.8	6.9	7.3	7.8	6.9	6.3
EXPRESS	5.9	3.8	5.0	6.7	5.4	7.2	6.5	7.3	7.8	6.9	6.3
APR 124	5.3	3.8	6.0	6.3	5.7	7.3	6.3	7.3	6.9	7.3	6.2
ROADRUNNER (PST-2ET)	6.2	3.5	5.3	5.3	6.1	7.3	7.2	7.3	6.9	7.2	6.2
CAS-LP23	5.6	3.8	5.3	5.7	5.6	7.7	6.7	8.0	7.3	6.8	6.2
WIND DANCE (MB 46)	6.9	3.8	6.0	5.3	4.8	7.8	6.3	7.0	7.2	7.2	6.2
CHAPARRAL (PST-2DLM)	6.3	3.3	5.3	5.3	4.8	8.0	6.8	7.7	7.3	7.3	6.2
NIGHT HAWK	5.9	3.7	5.3	5.7	4.8	7.7	6.9	7.7	7.5	7.1	6.2
PROTOCOL (KOOS 93-3)	6.0	3.8	5.0	6.7	5.3	7.3	6.1	7.3	7.6	7.0	6.2
ADVANTAGE	6.2	3.7	5.3	5.3	5.7	7.8	6.7	7.0	7.2	7.2	6.2
EXCEL (MB 1-5)	5.3	4.0	5.3	6.0	4.1	7.8	7.2	7.0	7.7	7.6	6.2
LEGACY II (LESCO-TWF)	6.4	3.7	5.0	5.7	5.6	7.2	6.8	7.0	7.6	7.1	6.2
DANCER	5.7	3.8	6.3	5.7	5.7	6.3	6.3	7.7	7.4	7.1	6.2
APR 131	5.0	3.8	5.3	5.7	5.3	7.5	7.3	7.0	7.5	7.0	6.2
PEGASUS	5.4	4.2	4.7	6.0	4.9	7.5	6.9	7.7	7.6	6.7	6.2
PENNFINE	5.1	3.8	5.3	7.3	4.6	7.0	6.8	7.7	7.5	6.4	6.2
WVPB-PR-C-2	5.9	3.7	5.7	5.7	5.0	7.7	6.6	6.3	7.8	7.1	6.1
NINE-O-ONE	5.9	3.7	4.3	5.7	5.2	7.3	6.8	8.0	7.3	7.3	6.1
STARDANCE (PST-2FE)	6.4	3.7	5.7	4.7	4.6	8.0	6.8	7.7	7.1	6.7	6.1
PST-2CB	5.6	3.8	5.0	6.7	4.9	7.0	6.1	7.3	7.4	6.8	6.1
DLP 1305	5.8	3.7	5.3	6.0	4.2	7.3	7.2	6.7	7.5	6.7	6.0
DSV NA 9402	4.7	3.5	4.7	5.7	4.9	6.3	6.4	7.7	7.7	6.6	5.8
FIGARO	4.6	4.2	5.0	5.7	4.6	6.0	6.6	7.3	7.4	6.3	5.8
DSV NA 9401	4.2	3.5	4.3	6.3	4.7	6.0	6.1	6.7	7.5	6.5	5.6
LINN	3.1	3.7	3.0	5.7	3.2	2.7	5.3	7.0	6.8	5.3	4.6
LSD VALUE	1.3	1.1	1.0	1.4	1.1	0.9	1.3	1.3	0.7	0.6	0.4
C.V. (%)	23.2	24.7	11.2	13.8	22.1	10.4	22.6	10.8	12.4	9.8	17.5

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 13.

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	GA1	IL1	IN1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
BRIGHTSTAR	7.0	2.8	6.7	7.3	8.8	8.7	8.0	8.7	7.1	6.4	7.1
CALYPSO II	7.8	3.3	6.7	6.7	8.3	8.8	7.3	8.3	6.6	6.9	7.1
PALMER III (LRF-94-MPRH)	7.0	3.2	6.5	6.0	9.0	8.7	7.1	9.0	7.0	7.1	7.1
PANTHER (ZPS-PR1)	7.5	3.0	6.7	6.7	8.7	8.8	7.1	8.0	7.1	7.0	7.1
PRIZM	6.7	3.5	6.3	6.7	8.3	8.8	7.7	8.7	7.0	6.7	7.0
BLACKHAWK (TMI-EXFLP94)	7.0	3.2	6.8	7.0	8.3	8.5	8.0	7.7	7.1	6.6	7.0
SONATA (PST-2R3)	8.3	3.5	6.7	6.0	8.4	8.7	7.0	8.3	7.1	5.9	7.0
SR 4400 (SRX 4400)	6.7	3.3	7.0	7.3	7.8	8.8	7.9	7.7	7.2	6.2	7.0
BRIGHTSTAR II (PST-2M3)	7.5	3.0	6.3	6.3	8.4	8.2	7.8	8.3	6.8	7.1	7.0
CIS-MBH (ISI-MHB)	6.8	3.5	6.5	6.3	7.9	8.8	7.8	8.3	6.8	7.0	7.0
OMEGA3 (ZPS-2DR-94)	7.3	3.2	6.3	6.7	8.1	8.8	7.5	7.7	7.2	6.8	7.0
LINE DRIVE (MB 47)	7.2	3.3	6.3	6.0	9.0	8.8	7.7	8.0	6.7	6.4	6.9
TOP HAT	7.3	3.3	7.0	6.7	7.6	8.5	8.3	8.0	6.3	6.3	6.9
MONTEREY (J-1706)	7.2	3.0	6.5	7.0	8.6	8.5	6.7	8.7	6.8	6.4	6.9
MARDIGRAS (ZPS-2NV)	7.0	3.2	6.0	6.3	8.1	8.7	7.2	8.7	7.3	6.7	6.9
CATALINA (PST-GH-94)	7.7	3.2	6.2	6.7	7.8	8.7	7.1	8.7	6.8	6.3	6.9
PREMIER II (BAR USA 94-II)	7.7	3.0	6.2	6.3	8.1	8.7	7.0	8.0	7.1	6.8	6.9
SUNSHINE (PICK LP 102-92)	7.7	3.0	6.5	6.0	8.4	8.7	7.3	8.0	6.8	6.4	6.9
PENNANT II (MB 42)	6.8	3.5	6.5	6.3	8.1	9.0	7.0	7.3	7.2	6.9	6.9
SR 4200	6.8	3.2	6.7	6.3	7.6	8.7	7.5	8.0	7.1	6.8	6.9
OMNI	6.5	3.5	6.5	6.7	8.3	8.8	7.3	7.7	6.7	6.6	6.9
IMAGINE	7.7	3.0	6.8	6.7	7.9	8.5	7.5	7.3	6.3	6.9	6.9
RIVIERA II	7.5	3.3	6.0	6.7	7.7	8.7	7.4	8.0	6.8	6.4	6.8
PRELUDE III (LRF-94-B6)	7.8	2.8	6.5	7.3	8.4	8.3	7.3	7.3	6.7	5.8	6.8
SATURN II (ZPS-2ST)	7.7	3.0	6.5	7.0	7.9	8.3	7.5	7.3	6.8	6.3	6.8
ASCEND (MB 45)	6.5	3.2	6.7	6.3	8.3	8.7	6.9	7.3	7.6	6.7	6.8
MAJESTY (MB 43)	6.8	3.0	6.7	6.0	7.8	9.0	7.1	8.0	7.1	6.6	6.8
SECRETARIAT (RPBD)	6.8	3.3	6.7	6.0	8.1	8.5	7.1	8.0	6.8	6.7	6.8
ACADEMY (PC-93-1)	7.2	3.2	6.7	6.0	7.9	8.5	7.8	7.7	6.9	6.2	6.8
LRF-94-C8	7.3	2.7	6.5	6.7	8.8	8.2	7.3	7.3	7.1	6.1	6.8
CUTTER	7.2	3.2	6.2	6.7	8.0	8.8	6.9	7.7	6.9	6.4	6.8
TOP GUN (J-1703)	7.0	2.8	6.0	7.0	8.2	8.5	7.5	8.7	6.5	5.7	6.8
WIZARD (MB 41)	7.2	3.0	6.3	6.0	7.3	8.8	7.3	8.0	7.2	6.8	6.8
CADDIESHACK (MED 5071)	7.0	3.0	6.2	6.3	8.4	8.3	7.6	8.0	6.8	6.1	6.8
WX3-93	7.0	3.2	6.3	6.3	8.2	8.2	7.6	7.7	7.1	6.0	6.8
BUCCANEER II (WVPB 92-4)	6.7	3.3	6.3	6.7	7.9	8.3	7.2	7.7	7.1	6.4	6.8
PS-D-9	6.8	3.3	6.5	7.0	8.1	8.7	7.0	7.0	6.8	6.3	6.8
ACCENT	7.2	3.0	6.3	7.0	7.3	8.7	7.8	7.3	6.3	6.5	6.7
HEAD START (PICK ER 84-91)	6.8	3.2	6.3	6.0	7.9	8.8	7.4	8.0	6.6	6.2	6.7
LAREDO	6.8	3.0	6.3	6.0	8.2	8.2	7.9	7.0	6.8	7.0	6.7
REPELL III (LRF-94-C7)	7.2	2.8	6.3	6.7	8.1	8.7	7.5	7.0	6.7	6.3	6.7
RADIANT (MB 44)	6.8	3.0	6.3	6.0	7.7	8.7	7.3	8.3	6.8	6.3	6.7
DIVINE	6.8	3.2	6.0	7.3	6.6	8.7	7.5	8.0	7.1	5.9	6.7
WIND STAR (PST-28M)	7.0	3.2	6.2	6.3	7.0	8.5	7.1	8.0	7.3	6.5	6.7
NOBILITY	6.8	3.7	6.2	6.3	7.4	8.2	7.3	7.3	7.0	6.8	6.7
MANHATTAN 3	7.3	3.2	6.0	6.0	7.7	8.5	7.8	7.7	6.9	5.9	6.7
MVF-4-1	6.5	3.2	6.7	6.7	7.8	8.8	7.3	7.3	6.4	6.3	6.7
PASSPORT (PST-2FF)	6.3	2.8	6.5	6.3	8.8	8.8	6.8	7.0	7.3	6.3	6.7
CITATION III (PST-2DGR)	7.0	2.8	5.8	6.3	8.0	8.5	7.3	7.7	6.6	6.5	6.7
SR 4010 (SRX 4010)	6.5	3.7	6.6	6.7	7.7	8.7	7.2	7.0	6.5	6.1	6.7
WIND DANCE (MB 46)	7.3	3.0	6.7	6.0	6.6	8.8	6.8	8.3	6.7	6.3	6.6
CHAPARRAL (PST-2DIM)	7.3	3.2	6.3	6.3	7.2	8.2	7.3	7.7	6.7	6.1	6.6

TABLE 13.
(CONT'D)

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1995-98 DATA
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	GA1	IL1	IN1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
SPELL BOUND (WVPB-93-KFK)	7.0	3.2	6.2	6.7	7.7	8.3	7.3	7.0	6.9	6.0	6.6
STALLION SUPREME (PSI-E-1)	7.2	3.0	6.0	6.3	7.4	8.7	7.8	7.0	7.0	5.9	6.6
EDGE	6.5	3.0	6.3	7.0	7.9	8.7	6.8	7.0	6.7	6.3	6.6
PRECISION	6.0	3.2	6.0	6.3	8.0	8.7	6.7	7.7	7.0	6.5	6.6
ACHIEVER	6.0	3.3	6.2	6.0	8.1	8.7	7.3	7.3	6.8	6.2	6.6
BLAZER III (PICK 928)	6.8	3.3	6.5	6.3	7.3	8.5	6.9	7.7	6.3	6.3	6.6
NAVAJO	6.8	2.8	6.0	6.7	7.1	8.5	6.8	8.0	6.8	6.1	6.6
KOOS 93-6	6.8	3.2	6.5	6.3	7.2	8.3	7.3	7.3	6.4	6.3	6.6
ESQUIRE	6.5	3.0	6.5	6.0	7.6	8.3	7.5	7.3	6.8	6.1	6.6
BAR ER 5813	7.7	3.0	6.2	6.0	6.4	8.3	7.6	7.7	6.8	6.1	6.6
VIVID	6.5	3.0	6.0	6.3	7.6	8.5	7.8	7.0	7.0	6.0	6.6
ASP400 (APR 106)	5.7	3.2	6.2	7.0	7.9	8.7	7.0	6.3	7.2	6.5	6.6
ELF	7.2	2.7	6.3	6.3	6.9	8.5	6.9	7.3	7.1	6.3	6.5
ASSURE	5.8	3.0	6.3	6.0	7.6	8.5	7.7	7.7	6.3	6.7	6.5
ADVANTAGE	7.0	2.8	6.3	5.3	8.1	8.5	7.1	7.7	6.5	6.1	6.5
MORNING STAR	5.8	3.2	6.0	6.3	7.6	8.3	7.4	7.7	6.8	6.3	6.5
EXCEL (MB 1-5)	6.0	2.5	6.2	6.7	5.8	9.0	7.4	8.0	7.3	6.6	6.5
STALLION SELECT	6.3	3.0	6.2	6.3	7.3	8.3	7.3	7.3	7.0	6.2	6.5
WVPB-PR-C-2	7.2	2.8	6.2	6.3	7.2	8.7	7.1	6.7	6.9	6.2	6.5
PEGASUS	6.0	2.8	6.5	6.7	6.7	8.0	7.4	7.7	7.1	6.1	6.5
NIGHT HAWK	6.2	2.8	6.2	6.7	7.2	8.2	7.3	7.3	6.7	6.3	6.5
APR 131	5.0	3.0	6.0	7.0	7.9	8.2	7.5	7.7	6.9	5.7	6.5
CAS-LP23	6.3	3.0	6.0	5.7	7.7	8.3	7.3	7.7	7.0	5.9	6.5
WILLIAMSBURG	5.8	3.0	6.0	6.3	7.7	8.3	7.5	7.3	6.8	5.9	6.5
R2 (ISI-R2)	5.5	3.0	6.5	6.3	7.7	8.3	7.0	8.0	6.7	5.7	6.5
SATURN	5.5	2.5	6.2	7.0	6.8	8.8	7.3	7.7	6.3	6.3	6.4
EXPRESS	6.2	2.7	5.8	6.3	7.9	8.2	6.4	7.7	7.2	6.1	6.4
NINE-O-ONE	6.3	3.0	6.0	5.7	7.4	7.8	7.2	7.3	6.6	6.9	6.4
LEGACY II (LESCO-TWF)	6.5	2.5	6.5	5.0	8.1	8.3	7.0	7.7	6.8	5.8	6.4
WX3-91	6.5	2.7	6.0	6.0	7.8	7.8	7.0	7.3	6.6	6.5	6.4
ROADRUNNER (PST-2ET)	6.3	2.8	6.2	5.7	8.2	8.3	7.6	7.3	5.9	5.6	6.4
PROTOCOL (KOOS 93-3)	6.5	2.8	6.3	6.0	7.2	7.8	6.8	7.7	6.8	6.1	6.4
APR 066	6.2	3.0	6.2	6.3	7.4	8.0	7.1	7.0	7.3	5.4	6.4
PST-2CB	6.2	3.2	5.7	6.3	7.3	8.5	6.5	7.7	6.7	5.8	6.4
STARDANCE (PST-2FE)	7.3	2.8	6.0	6.3	6.7	8.5	6.7	7.3	6.6	5.4	6.4
DANCER	6.3	2.8	6.2	6.3	7.1	7.8	6.5	7.7	6.6	5.9	6.3
QUICKSTART	6.0	2.5	6.7	6.3	6.7	8.5	7.2	7.3	6.6	5.5	6.3
APR 124	5.8	2.8	5.3	6.7	7.7	8.2	7.0	7.0	6.3	6.1	6.3
DLP 1305	5.7	2.5	4.5	6.3	6.8	8.5	7.1	7.3	6.7	5.7	6.1
DSV NA 9402	5.0	2.3	5.0	6.7	7.2	7.0	6.4	7.7	6.3	5.9	5.9
FIGARO	5.5	2.7	5.2	6.7	6.6	6.8	6.4	6.7	6.8	6.1	5.9
DSV NA 9401	4.5	2.3	5.0	6.3	6.2	7.0	6.0	7.0	6.8	5.9	5.7
PENNFINE	4.2	1.8	5.2	6.3	6.3	7.2	6.5	6.3	6.6	5.5	5.6
LINN	2.8	1.8	3.2	5.3	4.0	4.3	5.5	6.3	5.8	4.1	4.3
LSD VALUE	1.4	1.2	0.8	1.1	1.0	0.6	0.9	1.2	0.8	0.8	0.3
C.V. (%)	18.7	35.7	11.0	11.2	14.4	6.5	15.2	9.7	15.4	16.9	15.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

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

TABLE 14. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AR1	GA1	ME1	MO3	OK1	QE1	UB2	WA3	MEAN
ASSURE	68.3	72.8	83.3	99.0	98.3	26.7	98.3	48.3	74.4
SPELL BOUND (WVPB-93-KFK)	73.3	77.2	76.7	99.0	98.5	16.7	96.3	50.0	73.5
SR 4400 (SRX 4400)	68.3	75.6	75.0	99.0	98.3	23.3	95.7	50.8	73.3
SATURN	78.3	74.4	78.3	89.9	97.8	16.7	88.3	57.5	72.7
STALLION SUPREME (PSI-E-1)	73.3	75.0	70.0	99.0	98.0	13.3	97.3	45.0	71.4
ACHIEVER	70.0	74.4	75.0	92.0	97.8	13.3	96.7	50.0	71.2
NOBILITY	61.7	74.4	70.0	99.0	98.5	15.0	97.0	51.7	70.9
WILLIAMSBURG	53.3	75.0	76.7	99.0	98.8	16.7	96.7	50.0	70.8
ACCENT	65.0	70.6	68.3	99.0	98.4	20.0	98.0	46.7	70.7
SECRETARIAT (RPBD)	53.3	77.8	73.3	99.0	97.3	20.0	96.7	47.5	70.6
MAJESTY (MB 43)	60.0	71.1	66.7	99.0	97.8	23.3	98.7	48.3	70.6
BUCCANEER II (WVPB 92-4)	45.0	75.6	78.3	99.0	98.6	20.0	95.3	51.7	70.4
RADIANT (MB 44)	86.7	72.8	58.3	95.8	98.4	10.0	97.7	43.3	70.4
MORNING STAR	58.3	73.9	71.7	99.0	98.3	16.7	96.7	48.3	70.4
PALMER III (LRF-94-MPRH)	46.7	76.7	85.0	99.0	97.8	10.0	98.0	49.2	70.3
CAS-LP23	78.3	73.3	78.3	91.6	98.1	13.3	90.0	38.3	70.2
SR 4010 (SRX 4010)	48.3	79.4	68.3	97.0	98.6	16.7	98.7	51.7	69.8
RIVIERA II	56.7	76.1	75.0	99.0	97.9	10.0	96.7	46.7	69.8
OMNI	53.3	75.6	75.0	99.0	97.8	16.7	95.7	45.0	69.7
SR 4200	41.7	76.1	78.3	99.0	98.3	16.7	93.3	54.2	69.7
CATALINA (EST-GH-94)	63.3	74.4	73.3	95.9	97.4	13.3	97.3	41.7	69.6
TOP HAT	48.3	77.2	73.3	98.6	98.5	13.3	96.7	48.3	69.3
EXPRESS	38.3	73.9	76.7	99.0	97.9	23.3	91.0	51.7	69.0
TOP GUN (J-1703)	53.3	70.0	80.0	99.0	97.3	20.0	95.7	35.8	68.9
LRF-94-C8	61.7	70.6	75.0	98.6	97.7	10.0	96.0	40.8	68.8
PASSPORT (EST-2FF)	48.3	75.0	68.3	99.0	97.6	23.3	97.0	41.7	68.8
SUNSHINE (PICK LP 102-92)	56.7	69.4	65.0	99.0	98.3	16.7	98.3	46.7	68.8
STALLION SELECT	48.3	73.3	76.7	99.0	98.8	10.0	91.7	50.0	68.5
CADDIESHACK (MED 5071)	53.3	71.1	70.0	98.6	98.0	16.7	98.3	41.7	68.5
CUTTER	43.3	75.6	68.3	98.1	97.8	16.7	92.7	53.3	68.2
PROTOCOL (KOOS 93-3)	50.0	74.4	71.7	98.0	97.6	16.7	92.3	45.0	68.2
PANTHER (ZPS-PR1)	36.7	74.4	78.3	99.0	98.1	13.3	94.3	50.0	68.0
PENNANT II (MB 42)	63.3	73.3	58.3	95.9	97.4	8.3	99.0	48.3	68.0
QUICKSTART	50.0	76.1	61.7	93.9	96.3	20.0	98.3	46.7	67.9
MVF-4-1	46.7	78.9	70.0	98.1	97.8	8.3	96.3	46.7	67.9
ESQUIRE	51.7	72.2	76.7	99.0	98.3	13.3	90.0	41.7	67.9
PS-D-9	30.0	75.6	63.3	99.0	98.6	26.7	98.3	50.8	67.8
PREMIER II (BAR USA 94-II)	38.3	74.4	65.0	99.0	97.8	23.3	97.7	46.7	67.8
ACADEMY (PC-93-1)	36.7	80.0	70.0	96.1	98.3	13.3	97.3	50.0	67.7
CALYPSO II	41.7	71.7	63.3	99.0	98.4	16.7	97.3	53.3	67.7
WVPB-PR-C-2	38.3	77.8	76.7	99.0	97.9	13.3	88.3	50.0	67.7
NINE-O-ONE	56.7	68.3	53.3	98.6	97.6	13.3	93.3	58.3	67.4
MONTEREY (J-1706)	36.7	74.4	70.0	98.6	94.0	16.7	95.7	53.3	67.4
BRIGHTSTAR	40.0	71.1	70.0	97.0	98.1	23.3	96.7	41.7	67.2
EDGE	36.7	74.4	61.7	99.0	97.9	20.0	93.3	53.3	67.0
ASP400 (AER 106)	36.7	78.3	63.3	97.7	96.5	20.0	96.3	46.7	66.9
CIS-MBH (ISI-MHB)	25.0	72.2	76.7	99.0	98.3	20.0	95.0	48.3	66.8
PEGASUS	50.0	76.7	68.3	85.2	98.4	16.7	86.7	51.7	66.7
NIGHT HAWK	50.0	74.4	68.3	94.9	98.0	16.7	88.3	41.7	66.5
BLACKHAWK (TMI-EXFLP94)	36.7	79.4	50.0	99.0	98.8	15.0	96.3	56.7	66.5
WIZARD (MB 41)	36.7	75.0	68.3	95.4	97.6	16.7	98.3	43.3	66.4
LINE DRIVE (MB 47)	38.3	75.0	58.3	99.0	97.5	16.7	97.3	48.3	66.3

TABLE 14. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D)

1995-98 DATA
PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS

NAME	AR1	GA1	ME1	MO3	OK1	QE1	UB2	WA3	MEAN
PRELUDE III (LRF-94-B6)	43.3	70.0	75.0	98.6	97.6	8.3	97.0	39.2	66.1
VIVID	46.7	77.8	60.0	99.0	97.3	16.7	91.3	40.0	66.1
WIND STAR (PST-28M)	33.3	75.6	73.3	99.0	97.3	10.0	95.0	45.0	66.1
R2 (ISI-R2)	33.3	75.0	75.0	95.9	97.3	13.3	95.7	41.7	65.9
BRIGHTSTAR II (PST-2M3)	41.7	75.6	60.0	99.0	97.4	10.0	97.7	45.8	65.9
DSV NA 9402	41.7	78.3	60.0	93.2	91.7	20.0	86.7	55.0	65.8
PRIZM	38.3	77.8	56.7	99.0	96.8	13.3	99.0	45.0	65.7
PST-2CB	33.3	75.0	70.0	92.9	95.6	13.3	96.3	48.3	65.6
MARDIGRAS (ZPS-2NV)	26.7	72.2	80.0	92.6	96.8	13.3	92.3	50.0	65.5
REPELL III (LRF-94-C7)	26.7	73.9	76.7	99.0	98.1	8.3	97.0	43.3	65.4
DANCER	35.0	72.8	78.3	96.6	95.6	11.7	88.3	44.2	65.3
BAR ER 5813	53.3	75.0	78.3	71.4	98.6	13.3	94.0	38.3	65.3
SONATA (PST-2R3)	26.7	75.6	75.0	99.0	94.8	10.0	95.0	43.3	64.9
KOOS 93-6	21.7	76.1	66.7	92.0	97.9	20.0	97.0	46.7	64.8
CHAPARRAL (PST-2DLM)	38.3	75.0	73.3	91.4	96.8	13.3	92.7	36.7	64.7
ASCEND (MB 45)	28.3	70.6	68.3	93.8	97.7	13.3	97.7	46.7	64.5
IMAGINE	21.7	73.3	70.0	94.7	98.0	11.7	93.3	53.3	64.5
OMEGA3 (ZPS-2DR-94)	21.7	75.0	66.7	96.4	98.0	13.3	95.7	48.3	64.4
WX3-91	26.7	76.1	63.3	99.0	97.4	20.0	86.7	45.8	64.4
CITATION III (PST-2DGR)	23.3	72.8	66.7	98.1	97.3	13.3	97.0	45.0	64.2
LAREDO	8.7	71.7	71.7	98.6	98.4	20.0	96.3	47.5	64.1
HEAD START (PICK PR 84-91)	21.7	70.0	71.7	98.0	97.7	13.3	97.0	43.3	64.1
ELF	30.0	73.3	68.3	94.6	95.6	16.7	88.3	43.3	63.8
APR 124	26.7	76.7	58.3	92.2	97.3	16.7	96.7	45.0	63.7
APR 066	23.7	77.8	61.7	98.0	97.0	20.0	92.3	36.7	63.4
PRECISION	15.0	76.7	53.3	98.6	97.7	16.7	96.7	51.7	63.3
SATURN II (ZPS-2ST)	31.7	71.1	56.7	88.1	97.4	16.7	98.7	45.8	63.3
DSV NA 9401	36.7	76.7	60.0	89.3	91.1	13.3	86.7	51.7	63.2
BLAZER III (PICK 928)	20.0	72.2	68.3	98.0	98.1	16.7	92.7	38.3	63.0
APR 131	20.0	76.1	50.0	99.0	98.4	16.7	98.3	45.0	62.9
DIVINE	18.3	72.8	66.7	84.3	98.3	16.7	98.7	40.8	62.1
ROADRUNNER (PST-2ET)	31.7	76.7	50.0	99.0	97.7	8.3	98.0	35.0	62.0
WX3-93	30.0	71.1	60.0	99.0	96.8	13.3	88.3	37.5	62.0
LEGACY II (LESCO-TWF)	25.0	71.1	60.0	95.9	97.4	10.0	94.0	40.8	61.8
EXCEL (MB 1-5)	33.3	70.6	65.0	79.8	96.8	10.0	93.3	45.0	61.7
FIGARO	33.3	75.6	76.7	93.2	91.6	23.3	46.7	53.3	61.7
ADVANTAGE	20.0	69.4	58.3	98.0	97.2	16.7	93.3	39.2	61.5
PENNFINE	56.7	71.1	71.7	79.0	97.5	16.7	53.3	43.3	61.2
NAVAJO	20.0	71.1	56.7	93.1	95.0	13.3	88.3	46.7	60.5
MANHATTAN 3	11.7	77.2	45.0	92.2	98.0	20.0	98.0	41.7	60.5
WIND DANCE (MB 46)	40.0	73.3	45.0	76.3	95.6	15.0	98.0	40.0	60.4
STARDANCE (PST-2FE)	20.0	67.2	60.0	81.1	92.8	13.3	96.0	34.2	58.1
DLP 1305	21.7	68.9	65.0	60.8	96.7	20.0	41.7	40.0	51.8
LINN	3.7	75.0	25.0	53.2	89.8	16.7	35.0	38.3	42.1
LSD VALUE	38.3	10.1	24.4	9.4	3.9	9.5	7.7	8.5	4.0
C.V. (%)	58.0	14.6	22.4	10.7	5.0	37.3	5.1	16.3	15.1

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 15. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	GA1	ME1	MO3	OK1	QE1	UB2	WA3	MEAN
BUCCANEER II (WVPB 92-4)	58.3	65.0	85.0	94.1	92.3	88.3	78.3	76.7	79.8
PALMER III (LRF-94-MPRH)	53.3	70.0	58.3	96.2	88.1	97.7	90.0	83.3	79.6
WIZARD (MB 41)	68.3	63.3	51.7	94.9	88.6	75.0	96.3	76.7	76.9
ASSURE	53.3	63.3	63.3	92.2	93.0	76.7	93.0	78.3	76.7
KOOS 93-6	56.7	70.0	58.3	89.1	89.6	83.3	84.3	75.0	75.8
STALLION SUPREME (PSI-E-1)	46.7	61.7	43.3	96.8	90.8	97.7	90.7	78.3	75.7
R2 (ISI-R2)	63.3	60.0	60.0	88.3	86.8	80.0	89.0	78.3	75.7
PENNANT II (MB 42)	78.3	55.0	30.0	91.2	79.8	90.0	96.3	80.8	75.2
CHAPARRAL (PST-2DLM)	43.3	65.0	55.0	88.0	76.9	96.0	92.0	80.8	74.6
ASCEND (MB 45)	55.0	60.0	41.7	90.1	79.3	96.3	92.3	81.7	74.5
CATALINA (PST-GH-94)	48.3	63.3	43.3	95.6	86.1	81.7	96.0	80.8	74.4
RIVIERA II	56.7	66.7	36.7	93.6	92.0	85.0	87.3	76.7	74.3
ESQUIRE	56.7	60.0	41.7	94.1	92.0	81.7	90.0	78.3	74.3
ACADEMY (PC-93-1)	41.7	56.7	58.3	89.1	92.2	91.7	85.7	78.3	74.2
TOP HAT	40.0	60.0	61.7	93.6	89.1	76.7	90.7	81.7	74.2
NOBILITY	55.0	65.0	30.0	96.6	93.0	83.3	90.0	79.2	74.0
HEAD START (PICK PR 84-91)	43.3	50.0	68.3	93.0	84.6	83.3	92.3	76.7	73.9
WILLIAMSBURG	58.7	63.3	43.3	97.2	96.1	86.7	73.3	72.5	73.9
ACHIEVER	50.0	63.3	36.7	92.1	94.1	76.7	96.3	80.8	73.8
BRIGHTSTAR II (PST-2M3)	40.0	66.7	51.7	95.2	81.9	80.0	94.7	79.2	73.7
MAJESTY (MB 43)	71.7	53.3	25.0	93.0	84.3	85.0	94.0	80.8	73.4
SR 4200	46.7	61.7	36.7	95.8	92.8	88.3	86.7	76.7	73.1
PROTOCOL (KOOS 93-3)	45.0	70.0	65.0	88.0	85.6	83.3	68.3	76.7	72.7
LRF-94-C8	45.0	43.3	56.7	95.8	85.7	88.3	89.0	77.5	72.7
REPELL III (LRF-94-C7)	31.7	53.3	70.0	93.6	86.1	78.3	90.7	77.5	72.6
MARDIGRAS (ZPS-2NV)	45.0	56.7	50.0	89.3	83.8	91.7	80.7	83.3	72.6
APR 066	35.0	63.3	45.0	94.1	90.0	91.7	83.3	77.5	72.5
SECRETARIAT (RPBD)	40.0	60.0	53.3	90.8	85.9	78.3	90.7	80.8	72.5
OMEGA3 (ZPS-2DR-94)	23.3	66.7	33.3	88.7	90.2	99.0	96.3	81.7	72.4
PRIZM	41.7	70.0	26.7	95.1	85.8	83.3	97.0	79.2	72.3
APR 131	37.0	70.0	15.0	93.9	91.7	96.3	96.0	78.3	72.3
CAS-LP23	48.3	60.0	70.0	88.7	87.8	80.0	70.0	72.5	72.2
PST-2CB	78.3	66.7	25.0	83.2	80.7	80.0	84.0	77.5	71.9
PRELUDE III (LRF-94-B6)	26.7	43.3	76.7	92.3	88.2	76.7	96.7	74.2	71.8
PS-D-9	45.0	66.7	28.3	97.1	92.1	80.0	89.3	75.8	71.8
PRECISION	38.3	60.0	36.7	90.8	82.8	93.3	94.0	78.3	71.8
VIVID	43.3	63.3	46.7	96.7	88.4	90.0	66.7	76.7	71.5
SR 4400 (SRX 4400)	41.7	70.0	33.3	95.1	93.6	83.3	75.7	78.3	71.4
DIVINE	38.3	66.7	45.0	78.6	90.9	81.7	92.3	77.5	71.4
MVF-4-1	58.3	61.7	25.0	93.6	90.3	81.7	84.3	75.8	71.3
OMNI	55.0	48.3	51.7	93.4	83.8	80.0	80.0	78.3	71.3
WIND STAR (PST-28M)	41.7	56.7	35.0	91.4	83.3	91.7	89.0	80.8	71.2
SUNSHINE (PICK LP 102-92)	31.7	56.7	36.7	95.4	89.6	83.3	97.0	77.5	71.0
STALLION SELECT	36.7	53.3	38.3	94.9	91.8	91.7	85.0	75.8	70.9
PANTHER (ZPS-PR1)	30.0	50.0	46.7	96.7	89.8	83.3	89.3	80.0	70.7
SPELL BOUND (WVPB-93-KFK)	45.0	70.0	23.3	93.6	94.3	81.7	83.3	74.2	70.7
APR 124	35.0	68.3	26.7	87.4	85.8	83.3	96.7	80.8	70.5
PREMIER II (BAR USA 94-II)	38.3	56.7	35.0	92.8	87.4	78.3	93.3	81.7	70.4
LAREDO	38.3	60.0	40.0	86.8	88.7	83.3	86.7	79.2	70.4
BLACKHAWK (TMI-EXFLP94)	58.3	60.0	6.7	96.7	96.0	86.7	80.7	77.5	70.3
ACCENT	50.0	53.3	30.0	92.2	92.7	80.0	90.0	74.2	70.3
MORNING STAR	36.7	56.7	38.3	95.6	93.1	83.3	80.0	78.3	70.2

TABLE 15. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT' D)

1995-98 DATA
PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	AR1	GA1	ME1	MO3	OK1	QE1	UB2	WA3	MEAN
RADIANT (MB 44)	53.3	56.7	18.3	89.0	88.3	80.0	94.7	81.7	70.2
TOP GUN (J-1703)	41.7	56.7	38.3	99.0	88.6	83.3	80.0	73.3	70.1
NINE-O-ONE	55.0	63.3	28.3	87.4	86.3	71.7	91.7	76.7	70.1
ROADRUNNER (PST-2ET)	45.0	53.3	23.3	94.0	88.6	81.7	95.3	78.3	69.9
CADDIESHACK (MED 5071)	45.0	56.7	23.3	93.6	89.8	81.7	96.0	73.3	69.9
MANHATTAN 3	26.7	63.3	28.3	86.4	86.8	96.3	95.3	75.0	69.8
IMAGINE	38.3	53.3	50.0	90.7	85.0	73.3	83.7	82.5	69.6
BRIGHTSTAR	18.3	63.3	35.0	95.7	84.1	86.7	92.7	80.8	69.6
CIS-MBH (ISI-MHB)	36.7	56.7	41.7	95.7	87.9	78.3	77.7	80.8	69.4
EDGE	33.3	60.0	35.0	98.6	89.0	81.7	76.7	77.5	69.0
ADVANTAGE	26.7	56.7	58.3	92.4	82.9	76.7	79.0	78.3	68.9
SR 4010 (SFX 4010)	50.0	56.7	11.7	89.7	91.3	81.7	93.7	75.8	68.8
SONATA (PST-2R3)	21.7	70.0	43.3	93.4	72.3	86.7	85.0	77.5	68.7
CUTTER	33.3	53.3	31.7	90.8	89.7	81.7	89.3	80.0	68.7
ELF	33.3	60.0	40.0	87.4	77.9	91.7	75.0	80.8	68.3
EXPRESS	36.7	60.0	28.3	93.4	90.8	80.0	80.0	76.7	68.2
CITATION III (PST-2DGR)	30.0	46.7	33.3	92.3	86.4	81.7	95.3	80.0	68.2
LINE DRIVE (MB 47)	36.7	71.7	3.3	96.1	87.5	80.0	93.3	75.8	68.1
CALYPSO II	30.0	56.7	18.3	95.4	86.5	83.3	93.0	80.8	68.0
BLAZER III (PICK 928)	38.3	53.3	43.3	90.3	77.8	83.3	77.3	79.2	67.9
PASSPORT (EST-2FF)	45.0	53.3	6.7	95.2	82.0	83.3	96.7	80.0	67.8
ASP400 (APR 106)	25.0	66.7	20.0	95.0	87.6	83.3	82.3	77.5	67.2
SATURN	43.3	50.0	53.3	84.1	89.8	81.7	53.3	78.3	66.7
WVPB-PR-C-2	31.7	63.3	23.3	96.8	90.5	91.7	58.3	75.8	66.4
QUICKSTART	31.7	63.3	1.7	92.6	85.6	83.3	93.3	79.2	66.3
SATURN II (ZPS-2ST)	28.3	56.7	13.3	86.9	86.6	85.0	95.0	78.3	66.3
EXCEL (MB 1-5)	73.3	50.0	20.0	63.3	77.8	81.7	78.3	82.5	65.9
STARDANCE (PST-2FE)	40.0	60.0	41.7	63.8	69.8	78.3	97.0	75.0	65.7
LEGACY II (LESCO-TWF)	21.7	50.0	31.7	84.7	85.0	83.3	88.3	78.3	65.4
NIGHT HAWK	30.0	60.0	39.0	83.8	87.5	81.7	63.3	75.8	65.1
MONTEREY (J-1706)	35.0	56.7	10.0	94.4	81.6	76.7	85.0	81.7	65.1
DANCER	50.0	50.0	20.0	90.9	80.8	97.7	51.7	78.3	64.9
PEGASUS	50.0	56.7	23.3	77.7	88.3	96.3	47.7	75.8	64.5
NAVAJO	26.7	56.7	33.3	92.8	79.9	80.0	68.3	77.5	64.4
WX3-93	26.7	53.3	18.3	93.4	87.8	81.7	68.3	75.8	63.2
BAR ER 5813	20.0	66.7	33.3	56.0	87.6	78.3	84.7	76.7	62.9
FIGARO	41.7	63.3	63.3	87.4	73.0	91.7	8.7	72.5	62.7
WX3-91	20.0	50.0	38.3	90.8	89.0	76.7	60.0	76.7	62.7
WIND DANCE (MB 46)	40.0	56.7	10.0	59.9	80.0	71.7	92.3	76.7	60.9
DSV NA 9402	36.7	60.0	18.3	87.9	66.7	96.3	36.7	73.3	59.5
DSV NA 9401	46.7	51.7	12.3	82.8	70.2	83.3	46.7	75.0	58.6
PENNFINE	55.0	56.7	28.3	64.3	90.7	83.3	2.3	75.0	57.0
DLP 1305	25.0	56.7	36.7	43.1	80.7	80.0	2.3	74.2	49.8
LINN	13.3	50.0	36.7	43.2	73.0	80.0	8.3	68.3	46.6
LSD VALUE	40.9	16.4	47.6	11.9	12.3	4.2	26.9	12.0	6.7
C.V. (%)	60.5	17.2	80.0	14.4	17.8	3.1	20.6	13.5	22.4

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.

TABLE 16. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AR1	GA1	KY1	MO3	OK1	QE1	UB2	WA3	MEAN
NOBILITY	86.7	51.7	84.0	97.6	95.3	90.0	96.7	85.0	85.9
MORNING STAR	85.0	52.5	89.7	96.6	95.3	89.7	95.3	81.7	85.7
PENNANT II (MB 42)	88.3	49.2	89.0	92.3	91.2	88.0	98.7	86.4	85.4
WIZARD (MB 41)	84.0	48.3	91.7	91.0	93.4	94.3	97.7	81.1	85.2
SR 4400 (SRX 4400)	93.2	49.2	76.7	96.0	96.1	97.7	92.3	80.0	85.1
MAJESTY (MB 43)	91.5	45.8	82.0	98.0	90.7	90.0	98.7	83.9	85.1
EDGE	78.3	52.5	93.7	99.0	91.8	86.3	94.7	81.4	84.7
BUCCANEER II (WVPB 92-4)	74.8	50.0	85.0	97.1	96.4	97.7	93.7	82.8	84.7
PS-D-9	80.0	45.8	85.7	99.0	94.6	89.7	98.0	84.4	84.6
PRELUDE III (LRF-94-B6)	86.5	47.5	85.7	96.6	91.4	92.7	97.7	73.3	83.9
SPELL BOUND (WVPB-93-KFK)	91.7	47.5	75.7	99.0	91.6	93.0	92.3	80.0	83.8
CUTTER	75.0	51.7	87.3	98.1	94.4	89.7	94.0	79.4	83.7
ACHIEVER	74.2	53.3	81.7	93.2	96.1	91.0	96.7	82.2	83.5
PREMIER II (BAR USA 94-II)	85.0	50.0	75.7	94.0	92.8	91.7	97.0	82.2	83.5
STALLION SUPREME (PSI-E-1)	93.0	48.3	75.7	98.0	94.4	83.0	95.7	78.9	83.4
PASSPORT (EST-2FF)	78.3	44.2	84.7	97.7	89.8	93.0	97.0	80.0	83.1
BLACKHAWK (TMI-EXFLP94)	72.5	46.7	86.3	98.0	96.1	88.3	91.7	84.4	83.0
SR 4010 (SRX 4010)	73.2	54.2	91.7	94.4	95.3	79.7	97.3	77.8	82.9
RIVIERA II	77.5	56.7	79.0	95.0	90.9	85.0	97.0	81.1	82.8
ACADEMY (PC-93-1)	86.7	47.5	72.3	93.9	94.5	91.3	96.7	77.8	82.6
LRF-94-C8	84.0	45.8	77.3	99.0	91.8	86.7	97.3	77.2	82.4
STALLION SELECT	83.3	46.7	81.7	98.1	96.3	88.0	89.0	76.1	82.4
ASSURE	92.3	51.7	78.3	91.3	95.4	79.7	97.0	73.3	82.4
SONATA (PST-2R3)	84.2	55.0	70.0	98.1	85.9	96.3	94.0	75.6	82.4
RADIANT (MB 44)	92.3	46.7	75.7	86.0	91.5	86.3	98.3	82.0	82.4
TOP HAT	85.7	52.5	72.3	92.9	91.9	87.7	95.0	80.6	82.3
ACCENT	85.0	47.5	73.3	97.6	94.3	81.7	97.3	81.7	82.3
CIS-MBH (ISI-MHB)	70.8	53.3	74.0	99.0	91.2	92.7	93.0	83.9	82.2
LINE DRIVE (MB 47)	73.3	50.8	85.0	98.1	93.1	75.0	98.0	79.4	81.6
PRIZM	64.2	55.8	73.3	96.4	91.3	91.7	98.7	81.1	81.6
SECRETARIAT (RPBD)	90.7	50.8	66.7	96.1	92.2	83.0	93.3	79.4	81.5
MARDIGRAS (ZPS-2NV)	65.0	53.3	77.3	90.4	91.5	97.7	91.7	84.8	81.5
SATURN II (ZPS-2ST)	81.7	49.2	71.7	83.9	92.8	93.3	97.7	81.1	81.4
EXPRESS	65.0	49.2	87.0	99.0	92.3	93.0	88.3	77.2	81.4
PROTOCOL (KOOS 93-3)	89.2	47.5	70.7	90.8	92.5	89.7	91.0	79.4	81.3
ASCEND (MB 45)	73.3	45.0	80.7	87.8	84.7	96.0	98.0	83.9	81.2
BRIGHTSTAR II (PST-2M3)	83.3	49.2	61.7	99.0	86.7	85.0	98.7	85.6	81.1
SR 4200	73.3	50.8	67.3	98.0	91.2	90.0	92.3	85.6	81.1
R2 (ISI-R2)	82.5	49.2	79.3	96.0	86.2	85.0	91.7	77.8	81.0
VIVID	81.7	53.3	66.7	98.6	91.8	86.3	90.7	76.7	80.7
QUICKSTART	82.3	46.7	69.0	85.2	91.9	94.7	97.0	78.9	80.7
REPELL III (LRF-94-C7)	75.0	45.8	81.7	96.6	91.6	83.3	94.7	77.0	80.7
CADDIESHACK (MED 5071)	73.3	48.3	75.7	98.1	90.8	81.3	98.3	78.9	80.6
TOP GUN (J-1703)	80.8	48.3	72.0	99.0	87.8	84.7	94.3	77.2	80.5
CALYPSO II	78.3	46.7	68.3	99.0	89.8	78.3	97.0	86.1	80.4
PALMER III (LRF-94-MPRH)	65.0	49.2	60.0	99.0	93.1	93.0	96.0	87.0	80.3
KOOS 93-6	73.3	49.2	82.3	83.2	92.7	81.7	97.0	81.4	80.1
CAS-LP23	90.0	50.0	72.3	84.0	93.7	86.7	88.3	74.4	79.9
SUNSHINE (PICK LP 102-92)	65.0	50.0	74.0	94.3	93.4	84.3	97.7	80.0	79.8
MVF-4-1	86.7	53.3	51.7	95.0	91.8	86.3	92.3	78.9	79.5
OMNI	65.0	52.5	71.7	97.6	91.9	86.3	95.7	73.3	79.2
WILLIAMSBURG	65.8	43.3	70.7	98.6	94.4	89.7	92.0	79.4	79.2

TABLE 16. PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D)

1995-98 DATA
PERCENT LIVING GROUND COVER IN FALL: LOCATIONS

NAME	AR1	GA1	KY1	MO3	OK1	QE1	UB2	WA3	MEAN
ESQUIRE	74.2	51.7	74.7	96.7	93.4	85.0	89.0	67.8	79.0
CATALINA (PST-GH-94)	88.2	52.5	58.3	84.4	92.0	83.3	97.7	75.6	79.0
WIND STAR (PST-28M)	74.2	46.7	59.7	98.1	88.2	93.0	92.7	78.9	78.9
PANTHER (ZES-PR1)	60.8	48.3	59.0	99.0	92.0	91.0	95.0	84.4	78.7
PST-2CB	74.2	50.0	75.7	81.0	90.3	86.3	94.3	77.2	78.6
MANHATTAN 3	59.2	52.5	81.7	76.4	91.6	91.0	97.7	76.1	78.3
ROADRUNNER (PST-2ET)	83.3	45.8	58.0	98.6	91.7	76.3	98.0	73.9	78.2
APR 131	39.5	48.3	93.7	95.9	92.6	89.7	97.0	68.9	78.2
HEAD START (PICK PR 84-91)	63.3	51.7	71.7	90.9	90.9	81.7	97.0	77.2	78.0
BRIGHTSTAR	78.2	48.3	44.0	93.6	92.3	90.0	97.7	79.4	77.9
MONTEREY (J-1706)	40.8	51.7	82.7	97.6	82.3	91.0	93.0	82.2	77.7
PRECISION	36.8	46.7	91.0	97.0	89.5	88.0	97.7	73.3	77.5
OMEGA3 (ZPS-2DR-94)	46.7	51.7	60.0	94.6	92.8	91.0	95.7	81.7	76.7
ASP400 (AER 106)	35.8	50.0	71.7	98.6	86.9	91.3	95.7	82.6	76.6
LAREDO	32.5	49.2	73.0	98.6	89.6	88.0	95.7	85.6	76.5
DIVINE	48.3	51.7	76.7	70.8	94.9	89.7	98.7	78.4	76.1
IMAGINE	54.2	44.2	81.7	86.9	84.6	78.3	91.3	86.4	75.9
CITATION III (PST-2DGR)	62.5	43.3	52.3	96.0	89.8	84.7	97.7	81.1	75.9
WVPB-PR-C-2	80.8	45.0	40.7	99.0	89.4	84.7	80.0	81.1	75.1
ADVANTAGE	55.8	49.2	66.7	87.9	90.5	83.3	90.7	76.1	75.0
BLAZER III (PICK 928)	71.7	50.0	65.0	85.2	85.3	70.0	92.7	78.9	74.8
CHAPARRAL (PST-2DLM)	65.0	51.7	61.7	74.1	89.0	83.0	94.0	78.3	74.6
APR 124	55.2	43.3	69.0	81.6	90.4	75.0	95.3	81.7	73.9
WX3-93	52.5	47.5	49.0	98.6	88.5	93.0	85.7	76.7	73.9
SATURN	90.0	38.3	40.0	83.4	93.6	80.0	83.3	81.1	73.7
NINE-O-ONE	80.0	44.2	15.3	97.1	90.3	84.7	92.3	81.7	73.2
WIND DANCE (MB 46)	74.2	46.7	61.7	53.8	88.3	83.3	98.3	78.3	73.1
WX3-91	42.5	49.2	51.7	96.1	95.1	83.3	85.0	81.1	73.0
LEGACY II (LESCO-TWF)	47.2	42.5	64.0	83.7	91.3	89.7	93.0	71.1	72.8
APR 066	34.2	49.2	48.3	99.0	92.5	89.7	88.3	75.0	72.0
NIGHT HAWK	85.8	40.0	20.7	84.3	91.8	81.3	83.3	81.7	71.1
EXCEL (MB 1-5)	74.2	41.7	48.3	53.9	84.6	93.3	90.0	79.4	70.7
PEGASUS	84.2	44.2	31.0	68.9	91.7	86.3	76.7	78.9	70.2
BAR ER 5813	82.5	40.8	41.7	53.9	84.7	86.0	91.3	80.6	70.2
NAVAJO	42.5	46.7	50.0	86.6	85.8	88.3	83.3	76.7	70.0
DANCER	71.7	40.8	39.3	90.8	75.9	80.0	73.3	77.8	68.7
ELF	40.0	40.0	32.7	94.6	83.6	90.0	85.0	81.1	68.4
STARDANCE (PST-2FE)	65.8	38.3	28.3	68.2	81.4	86.7	98.0	76.7	67.9
DSV NA 9402	81.7	35.8	21.3	81.1	83.2	79.7	73.3	73.3	66.2
DSV NA 9401	65.0	38.3	19.0	79.4	77.6	89.7	78.3	79.4	65.9
FIGARO	72.5	42.5	13.3	80.6	77.0	81.7	16.7	72.2	57.1
PENNFINE	62.5	26.7	13.7	57.2	82.5	87.7	31.7	75.0	54.6
DLP 1305	22.5	35.0	5.3	29.4	83.0	93.0	21.7	83.9	46.7
LINN	15.2	30.8	7.0	30.4	76.8	79.7	11.7	62.8	39.3
LSD VALUE	24.6	27.7	30.2	12.9	9.9	21.0	10.1	13.4	6.3
C.V. (%)	30.4	51.3	28.7	15.5	13.7	14.9	6.9	18.2	20.9

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 17.

WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	AR1	OK1	WA3	MEAN	NAME	AR1	OK1	WA3	MEAN
PREMIER II (BAR USA 94-II)	7.0	5.5	7.6	6.7	SUNSHINE (PICK LP 102-92)	6.0	5.3	6.3	5.9
REPELL III (LRF-94-C7)	7.3	5.3	7.2	6.6	MARDIGRAS (ZPS-2NV)	5.7	5.5	6.4	5.9
WIND DANCE (MB 46)	6.7	5.5	7.3	6.5	QUICKSTART	5.7	5.5	6.4	5.9
PRELUDE III (LRF-94-B6)	6.7	5.7	7.1	6.5	BAR ER 5813	6.0	5.7	5.8	5.8
EXCEL (MB 1-5)	6.3	5.5	7.4	6.4	DANCER	6.0	5.8	5.7	5.8
PALMER III (LRF-94-MPRH)	6.7	5.5	7.1	6.4	RIVIERA II	6.0	5.3	6.2	5.8
BRIGHTSTAR II (PST-2M3)	6.0	5.5	7.7	6.4	STARDANCE (PST-2FE)	6.0	5.5	6.0	5.8
CALYPSO II	6.7	5.7	6.8	6.4	LAREDO	5.0	5.5	6.9	5.8
LEGACY II (LESCO-TWF)	7.0	5.5	6.5	6.3	MORNING STAR	5.7	5.5	6.3	5.8
ASCEND (MB 45)	6.0	5.5	7.4	6.3	NOBILITY	6.0	5.3	6.1	5.8
LRF-94-C8	6.3	5.3	7.2	6.3	SPELL BOUND (WVPB-93-KFK)	5.7	5.5	6.2	5.8
DIVINE	6.7	5.3	6.8	6.3	CADDIESHACK (MED 5071)	5.3	5.5	6.4	5.8
ELF	6.7	5.5	6.6	6.3	CAS-LP23	5.7	5.5	6.1	5.8
PANTHER (ZPS-PR1)	6.7	5.5	6.5	6.2	OMNI	5.7	5.5	6.1	5.8
IMAGINE	6.3	5.2	6.9	6.1	PROTOCOL (KOOS 93-3)	5.3	5.5	6.4	5.8
LINE DRIVE (MB 47)	6.0	5.5	6.9	6.1	ACHIEVER	5.0	5.5	6.7	5.7
EXPRESS	6.0	5.5	6.8	6.1	CATALINA (PST-GH-94)	5.3	5.5	6.3	5.7
APR 124	6.7	5.3	6.3	6.1	ACCENT	5.3	5.5	6.3	5.7
PENNANT II (MB 42)	5.7	5.5	7.1	6.1	BUCCANEER II (WVPB 92-4)	5.3	5.5	6.3	5.7
MVF-4-1	6.3	5.5	6.3	6.1	CHAPARRAL (PST-2DLM)	5.3	5.5	6.3	5.7
ESQUIRE	6.3	5.5	6.3	6.0	BRIGHTSTAR	5.3	5.3	6.3	5.7
HEAD START (PICK PR 84-91)	6.0	5.5	6.6	6.0	PEGASUS	5.3	5.5	6.2	5.7
OMEGA3 (ZPS-2DR-94)	6.3	5.5	6.3	6.0	TOP GUN (J-1703)	5.3	5.5	6.2	5.7
PRECISION	6.0	5.5	6.6	6.0	TOP HAT	5.3	5.3	6.3	5.7
ROADRUNNER (PST-2ET)	6.3	5.5	6.3	6.0	APR 131	5.7	5.3	5.9	5.6
SONATA (PST-2R3)	6.3	5.5	6.3	6.0	VIVID	5.0	5.5	6.4	5.6
ACADEMY (PC-93-1)	6.0	5.5	6.5	6.0	WILLIAMSBURG	5.0	5.5	6.4	5.6
PRIZM	6.0	5.5	6.5	6.0	WX3-93	5.3	5.5	6.1	5.6
WVPB-PR-C-2	6.3	5.5	6.2	6.0	ASP400 (APR 106)	5.7	5.2	6.0	5.6
EDGE	5.7	5.5	6.8	6.0	BLAZER III (PICK 928)	5.0	5.3	6.5	5.6
MONTEREY (J-1706)	5.7	5.5	6.7	5.9	PASSPORT (PST-2FF)	5.3	5.5	6.0	5.6
PST-2CB	5.7	5.5	6.7	5.9	SATURN	5.0	5.5	6.3	5.6
WIZARD (MB 41)	5.7	5.5	6.7	5.9	SR 4010 (SRX 4010)	5.3	5.3	6.2	5.6
BLACKHAWK (TMI-EXFLP94)	6.0	5.5	6.3	5.9	STALLION SUPREME (PSI-E-1)	5.0	5.5	6.3	5.6
CITATION III (PST-2DGR)	6.3	5.2	6.3	5.9	ASSURE	5.3	5.3	6.1	5.6
CUTIER	6.0	5.5	6.3	5.9	SR 4400 (SRX 4400)	5.0	5.5	6.3	5.6
MAJESTY (MB 43)	5.3	5.5	7.0	5.9	WX3-91	5.0	5.5	6.2	5.6
NINE-O-ONE	5.3	5.5	7.0	5.9	DLP 1305	7.0	4.5	5.1	5.5
STALLION SELECT	6.3	5.3	6.2	5.9	FIGARO	6.0	5.0	5.6	5.5
MANHATTAN 3	6.0	5.5	6.3	5.9	APR 066	5.7	5.0	5.7	5.4
NIGHT HAWK	6.0	5.5	6.3	5.9	NAVAJO	5.3	5.2	5.8	5.4
PS-D-9	6.0	5.5	6.3	5.9	LINN	5.7	5.3	4.8	5.3
RADIANT (MB 44)	5.3	5.3	7.1	5.9	DSV NA 9401	5.3	5.0	5.4	5.3
SATURN II (ZPS-2ST)	6.0	5.5	6.3	5.9	R2 (ISI-R2)	5.0	5.3	5.4	5.3
SECRETARIAT (RPBD)	5.7	5.5	6.6	5.9	PENNFINE	4.3	5.2	5.4	5.0
SR 4200	6.0	5.5	6.3	5.9	DSV NA 9402	4.7	5.0	5.2	4.9
WIND STAR (PST-28M)	6.0	5.5	6.3	5.9					
ADVANTAGE	5.7	5.5	6.5	5.9	LSV VALUE	1.2	0.6	0.9	0.6
KOOS 93-6	6.0	5.5	6.2	5.9	C.V. (%)	12.7	10.5	17.3	16.1
CIS-MBH (ISI-MHB)	6.0	5.3	6.3	5.9					

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/ WINTER COLOR RATED AT "AR1" IN 1995, AT "CK1" IN 1995 & 1998 AND AT "WA3" IN 1994-96 & 1998.

TABLE 18. PERCENT WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	AR1	NAME	AR1
BLAZER III (PICK 928)	88.3	PEGASUS	60.0
PRECISION	88.3	QUICKSTART	60.0
DIVINE	86.7	SECRETARIAT (REBD)	60.0
IMAGINE	86.7	SR 4200	60.0
KOOS 93-6	86.7	WIZARD (MB 41)	60.0
MANHATTAN 3	86.7	BAR ER 5813	58.3
NAVAJO	86.7	BRIGHTSTAR	58.3
STARDANCE (PST-2FE)	85.0	CALYPSO II	58.3
OMEGA3 (ZPS-2DR-94)	83.3	CHAPARRAL (PST-2DLM)	58.3
ADVANTAGE	80.0	ESQUIRE	58.3
APR 066	80.0	STALLION SELECT	58.3
HEAD START (PICK PR 84-91)	80.0	EDGE	56.7
MARDIGRAS (ZPS-2NV)	80.0	EXPRESS	56.7
SONATA (PST-2R3)	80.0	PASSPORT (PST-2FF)	56.7
WX3-91	78.3	WIND STAR (PST-28M)	56.7
DLP 1305	76.7	NOBILITY	55.0
R2 (ISI-R2)	76.7	TOP HAT	55.0
REPELL III (LRF-94-C7)	76.7	WILLIAMSBURG	55.0
CITATION III (PST-2DGR)	73.3	MVF-4-1	53.3
CIS-MBH (ISI-MHB)	73.3	PALMER III (LRF-94-MPRH)	53.3
DSV NA 9401	73.3	BRIGHTSTAR II (PST-2M3)	50.0
PANTHER (ZPS-PR1)	73.3	CATALINA (PST-GH-94)	50.0
APR 124	71.7	OMNI	50.0
ASCEND (MB 45)	71.7	PROTOCOL (KOOS 93-3)	50.0
PRIZM	71.7	BUCCANEER II (WVPB 92-4)	48.3
APR 131	70.0	EXCEL (MB 1-5)	48.3
DANCER	70.0	PENNFINE	46.7
PRELUDE III (LRF-94-B6)	70.0	SUNSHINE (PICK LP 102-92)	45.0
PREMIER II (BAR USA 94-II)	70.0	TOP GUN (J-1703)	45.0
PS-D-9	70.0	CADDIESHACK (MED 5071)	43.3
VIVID	70.0	LRF-94-C8	43.3
WVPB-PR-C-2	70.0	NIGHT HAWK	43.3
ACADEMY (PC-93-1)	68.3	RIVIERA II	43.3
BLACKHAWK (TMI-EXFLP94)	68.3	NINE-O-ONE	40.0
ROADRUNNER (PST-2ET)	68.3	CAS-LP23	38.3
ASP400 (APR 106)	66.7	PENNANT II (MB 42)	38.3
LINE DRIVE (MB 47)	66.7	SPELL BOUND (WVPB-93-KFK)	38.3
LAREDO	65.0	MAJESTY (MB 43)	36.7
MONTEREY (J-1706)	65.0	ACCENT	35.0
WX3-93	65.0	SR 4400 (SRX 4400)	35.0
LINN	63.3	ASSURE	33.3
PST-2CB	63.3	STALLION SUPREME (PSI-E-1)	31.7
SR 4010 (SRX 4010)	63.3	ACHIEVER	30.0
WIND DANCE (MB 46)	63.3	SATURN	30.0
CUTTER	61.7	MORNING STAR	25.0
DSV NA 9402	61.7	RADIANT (MB 44)	15.0
ELF	61.7		
LEGACY II (LESCO-TWF)	61.7	LSO VALUE	44.0
SATURN II (ZPS-2ST)	61.7	C.V. (%)	45.1
FIGARO	60.0		

- 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/ PERCENT WINTER KILL RATED IN 1996 ONLY.

TABLE 19. WINTER KILL RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
WINTER KILL RATINGS 1-9; 9=NONE 2/ 3/

NAME	NE1	NAME	NE1
NINE-O-ONE	9.0	CATALINA (PST-GH-94)	6.0
APR 131	8.7	LINE DRIVE (MB 47)	6.0
LINN	8.7	MAJESTY (MB 43)	6.0
PST-2CB	8.7	MARDIGRAS (ZPS-2NV)	6.0
CITATION III (PST-2DGR)	8.3	MVF-4-1	6.0
STARDANCE (PST-2FE)	8.3	PALMER III (LRF-94-MPRH)	6.0
ADVANTAGE	8.0	SATURN	6.0
BUCCANEER II (WVPB 92-4)	7.7	SECRETARIAT (RPBD)	6.0
LEGACY II (LESCO-TWF)	7.7	WIND DANCE (MB 46)	6.0
MORNING STAR	7.7	ACADEMY (PC-93-1)	5.7
PRELUDE III (LRF-94-B6)	7.7	APR 124	5.7
REPELL III (LRF-94-C7)	7.7	BLACKHAWK (TMI-EXFLP94)	5.7
CAS-LP23	7.3	CALYPSO II	5.7
EXPRESS	7.3	DIVINE	5.7
PEGASUS	7.3	DSV NA 9402	5.7
PENNFINE	7.3	HEAD START (PICK PR 84-91)	5.7
QUICKSTART	7.3	MONTEREY (J-1706)	5.7
ROADRUNNER (PST-2ET)	7.3	NIGHT HAWK	5.7
WILLIAMSBURG	7.3	PANTHER (ZPS-PR1)	5.7
WIND STAR (PST-28M)	7.3	PRECISION	5.7
CHAPARRAL (PST-2DLM)	7.0	RIVIERA II	5.7
MANHATTAN 3	7.0	WX3-91	5.7
NOBILITY	7.0	ACCENT	5.3
R2 (ISI-R2)	7.0	ASCEND (MB 45)	5.3
RADIANT (MB 44)	7.0	ASP400 (APR 106)	5.3
SUNSHINE (PICK LP 102-92)	7.0	CUTTER	5.3
ACHIEVER	6.7	ELF	5.3
APR 066	6.7	KOOS 93-6	5.3
ASSURE	6.7	STALLION SELECT	5.3
CADDIESHACK (MED 5071)	6.7	WIZARD (MB 41)	5.3
DANCER	6.7	WX3-93	5.3
DSV NA 9401	6.7	BRIGHTSTAR	5.0
EDGE	6.7	LAREDO	5.0
EXCEL (MB 1-5)	6.7	OMNI	5.0
IMAGINE	6.7	PENNANT II (MB 42)	5.0
LRF-94-C8	6.7	PREMIER II (BAR USA 94-II)	5.0
OMEGA3 (ZPS-2DR-94)	6.7	SONATA (PST-2R3)	5.0
PASSPORT (PST-2FF)	6.7	SPELL BOUND (WVFB-93-KFK)	5.0
PRIZM	6.7	BAR ER 5813	4.7
SATURN II (ZPS-2ST)	6.7	SR 4200	4.7
BRIGHTSTAR II (PST-2M3)	6.3	VIVID	4.7
NAVAJO	6.3	ESQUIRE	4.3
PROTOCOL (KOOS 93-3)	6.3	FIGARO	4.0
PS-D-9	6.3	CIS-MBH (ISI-MHB)	3.7
SR 4010 (SRX 4010)	6.3	SR 4400 (SRX 4400)	3.3
STALLION SUPREME (PSI-E-1)	6.3	DLP 1305	3.0
TOP GUN (J-1703)	6.3		
TOP HAT	6.3	LSD VALUE	2.5
WVFB-PR-C-2	6.3	C.V. (%)	24.8
BLAZER III (PICK 928)	6.0		

- 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 KILL RATED IN 1996 ONLY.

TABLE 20. DROUGHT TOLERANCE (WILTING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA

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

NAME	KS1	QE1	MEAN	NAME	KS1	QE1	MEAN
BUCCANEER II (WVPB 92-4)	6.3	7.7	7.0	MAJESTY (MB 43)	5.0	6.7	5.8
APR 066	7.0	6.7	6.8	MVF-4-1	5.7	6.0	5.8
QUICKSTART	7.0	6.7	6.8	PROTOCOL (KOOS 93-3)	5.0	6.7	5.8
MORNING STAR	5.7	7.7	6.7	PS-D-9	5.7	6.0	5.8
HEAD START (PICK PR 84-91)	6.3	7.0	6.7	R2 (ISI-R2)	5.7	6.0	5.8
ACADEMY (PC-93-1)	5.7	7.3	6.5	RIVIERA II	5.0	6.7	5.8
APR 124	5.7	7.3	6.5	VIVID	5.0	6.7	5.8
BRIGHTSTAR II (EST-2M3)	6.3	6.7	6.5	CAS-LP23	5.3	6.3	5.8
NAVAJO	6.0	7.0	6.5	KOOS 93-6	5.3	6.3	5.8
NIGHT HAWK	6.0	7.0	6.5	LINE DRIVE (MB 47)	5.3	6.3	5.8
SATURN	6.3	6.7	6.5	OMEGA3 (ZPS-2DR-94)	5.3	6.3	5.8
SR 4400 (SRX 4400)	6.3	6.7	6.5	RADIANT (MB 44)	5.3	6.3	5.8
STALLION SUPREME (PSI-E-1)	6.3	6.7	6.5	CALYPSO II	4.7	6.7	5.7
STARDANCE (PST-2FE)	6.3	6.7	6.5	CHAPARRAL (PST-2DLM)	4.7	6.7	5.7
WIZARD (MB 41)	5.7	7.3	6.5	DANCER	4.7	6.7	5.7
DSV NA 9402	5.7	7.0	6.3	IMAGINE	5.7	5.7	5.7
ELF	5.7	7.0	6.3	PALMER III (LRF-94-MPRH)	4.7	6.7	5.7
EXPRESS	5.7	7.0	6.3	TOP HAT	4.7	6.7	5.7
PENNANT II (MB 42)	5.7	7.0	6.3	ACCENT	5.0	6.3	5.7
STALLION SELECT	6.0	6.7	6.3	BRIGHTSTAR	5.0	6.3	5.7
WX3-91	5.7	7.0	6.3	CUTTER	4.3	7.0	5.7
PENNFINE	5.3	7.3	6.3	NINE-O-ONE	5.0	6.3	5.7
ASP400 (APR 106)	5.7	6.7	6.2	NOBILITY	5.0	6.3	5.7
CATALINA (PST-GH-94)	5.7	6.7	6.2	OMNI	5.0	6.3	5.7
EDGE	5.7	6.7	6.2	PRIZM	5.0	6.3	5.7
PRECISION	5.7	6.7	6.2	TOP GUN (J-1703)	5.0	6.3	5.7
PST-2CB	5.7	6.7	6.2	WX3-93	5.0	6.3	5.7
SPELL BOUND (WVEB-93-KFK)	5.7	6.7	6.2	DIVINE	5.3	5.7	5.5
APR 131	6.0	6.3	6.2	ESQUIRE	5.0	6.0	5.5
ASSURE	6.0	6.3	6.2	EXCEL (MB 1-5)	4.0	7.0	5.5
BLACKHAWK (TMI-EXFLP94)	5.3	7.0	6.2	PANTHER (ZPS-PR1)	4.7	6.3	5.5
DSV NA 9401	6.0	6.3	6.2	PASSPORT (PST-2FF)	4.7	6.3	5.5
MARDIGRAS (ZPS-2NV)	5.3	7.0	6.2	ROADRUNNER (PST-2ET)	4.3	6.7	5.5
WILLIAMSBURG	6.0	6.3	6.2	SATURN II (ZPS-2ST)	5.0	6.0	5.5
DLP 1305	4.7	7.3	6.0	WIND DANCE (MB 46)	4.7	6.3	5.5
FIGARO	4.7	7.3	6.0	WIND STAR (PST-28M)	4.3	6.7	5.5
LAREDO	5.3	6.7	6.0	ACHIEVER	4.0	6.7	5.3
LEGACY II (LESCO-TWF)	5.0	7.0	6.0	PREMIER II (BAR USA 94-II)	5.0	5.7	5.3
MANHATTAN 3	5.0	7.0	6.0	SUNSHINE (PICK LP 102-92)	5.0	5.7	5.3
PEGASUS	5.3	6.7	6.0	ADVANTAGE	4.3	6.3	5.3
REPELL III (LRF-94-C7)	5.3	6.7	6.0	LRF-94-C8	4.3	6.3	5.3
SECRETARIAT (RPBD)	5.0	7.0	6.0	MONTEREY (J-1706)	4.3	6.3	5.3
SONATA (PST-2R3)	4.7	7.3	6.0	PRELUDE III (LRF-94-B6)	4.3	6.3	5.3
SR 4010 (SRX 4010)	5.7	6.3	6.0	BLAZER III (PICK 928)	4.0	6.3	5.2
SR 4200	5.0	7.0	6.0	BAR ER 5813	3.0	7.0	5.0
WVPB-PR-C-2	5.7	6.3	6.0	LINN	3.0	6.3	4.7
ASCEND (MB 45)	4.7	7.0	5.8				
CADDIESHACK (MED 5071)	5.0	6.7	5.8	LSD VALUE	1.4	1.1	0.9
CITATION III (PST-2DGR)	5.7	6.0	5.8	C.V. (%)	17.2	9.9	13.3
CIS-MBH (ISI-MHB)	5.0	6.7	5.8				

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/ DROUGHT TOLERANCE (WILTING) RATED AT "KS1" IN 1996 AND AT "QE1" IN 1995.

TABLE 21. THATCH MEASUREMENTS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
THATCH MEASUREMENTS IN MILLIMETERS 2/ 3/

NAME	QE1	NAME	QE1
IMAGINE	6.3	EXCEL (MB 1-5)	2.3
CIS-MBH (ISI-MHB)	5.3	NAVAJO	2.3
DANCER	5.0	PEGASUS	2.3
CUTTER	4.7	PRIZM	2.3
MANHATTAN 3	4.7	PST-2CB	2.3
RADIANT (MB 44)	4.7	QUICKSTART	2.3
ROADRUNNER (PST-2ET)	4.7	SR 4200	2.3
ACADEMY (PC-93-1)	4.3	SR 4400 (SRX 4400)	2.3
DLP 1305	4.3	STALLION SELECT	2.3
MONTEREY (J-1706)	4.3	STARDANCE (PST-2FE)	2.3
NINE-O-ONE	4.3	WIND STAR (PST-2SM)	2.3
ELF	4.0	WX3-91	2.3
EXPRESS	4.0	WX3-93	2.3
LINN	4.0	ACHIEVER	2.0
OMNI	4.0	ASP400 (APR 106)	2.0
PENNANT II (MB 42)	4.0	ASSURE	2.0
REPELL III (LRF-94-C7)	4.0	BAR ER 5813	2.0
SPELL BOUND (WVPB-93-KFK)	4.0	BLACKHAWK (TMI-EXFLP94)	2.0
TOP GUN (J-1703)	4.0	CAS-LP23	2.0
ASCEND (MB 45)	3.7	DSV NA 9401	2.0
CALYPSO II	3.7	FIGARO	2.0
HEAD START (PICK PR 84-91)	3.7	MVF-4-1	2.0
LINE DRIVE (MB 47)	3.7	OMEGA3 (ZPS-2DR-94)	2.0
BRIGHTSTAR	3.3	PALMER III (LRF-94-MPRH)	2.0
CHAPARRAL (PST-2DLM)	3.3	PASSPORT (PST-2FF)	2.0
MORNING STAR	3.3	PENNFINE	2.0
PANTHER (ZPS-PR1)	3.3	PS-D-9	2.0
PRELUDE III (LRF-94-B6)	3.3	SATURN	2.0
PREMIER II (BAR USA 94-II)	3.3	WIZARD (MB 41)	2.0
R2 (ISI-R2)	3.3	ACCENT	1.7
SONATA (PST-2R3)	3.3	APR 131	1.7
DIVINE	3.0	BRIGHTSTAR II (PST-2M3)	1.7
EDGE	3.0	BUCCANEER II (WVPB 92-4)	1.7
KOOS 93-6	3.0	CITATION III (PST-2DGR)	1.7
LEGACY II (LESCO-TWF)	3.0	PROTOCOL (KOOS 93-3)	1.7
LRF-94-C8	3.0	SATURN II (ZPS-2ST)	1.7
MAJESTY (MB 43)	3.0	STALLION SUPREME (PSI-E-1)	1.7
NOBILITY	3.0	WIND DANCE (MB 46)	1.7
VIVID	3.0	WVPB-PR-C-2	1.7
ADVANTAGE	2.7	PRECISION	1.3
DSV NA 9402	2.7	BLAZER III (PICK 928)	1.0
LAREDO	2.7	CADDIESHACK (MED 5071)	1.0
MARDIGRAS (ZPS-2NV)	2.7	RIVIERA II	1.0
NIGHT HAWK	2.7	SUNSHINE (PICK LP 102-92)	1.0
SECRETARIAT (RPBD)	2.7	WILLIAMSBURG	1.0
SR 4010 (SRX 4010)	2.7	CATALINA (PST-GH-94)	0.7
TOP HAT	2.7		
APR 066	2.3	LSD VALUE	3.3
APR 124	2.3	C.V. (%)	74.0
ESQUIRE	2.3		

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ THATCH MEASURED IN 1998 ONLY.

TABLE 22.

PINK SNOW MOLD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	ME1	NJ1	MEAN	NAME	ME1	NJ1	MEAN
LINN	8.3	6.7	7.5	PRIZM	6.0	5.0	5.5
NOBILITY	7.7	7.3	7.5	STALLION SELECT	5.3	5.7	5.5
PRECISION	7.7	7.3	7.5	TOP HAT	4.0	7.0	5.5
PST-2CB	7.3	7.0	7.2	VIVID	6.0	5.0	5.5
PEGASUS	7.0	7.0	7.0	ACHIEVER	4.7	6.0	5.3
PENNFINE	6.3	7.7	7.0	CALYPSO II	3.0	7.7	5.3
WX3-91	7.0	6.7	6.8	PALMER III (LRF-94-MPRH)	3.0	7.7	5.3
DSV NA 9401	6.3	7.0	6.7	SATURN	4.7	6.0	5.3
BLACKHAWK (TMI-EXFLP94)	6.3	6.7	6.5	SUNSHINE (PICK LP 102-92)	4.7	6.0	5.3
EXPRESS	6.3	6.7	6.5	WVPB-PR-C-2	4.7	6.0	5.3
STARDANCE (PST-2FE)	7.3	5.7	6.5	EDGE	5.3	5.3	5.3
PROTOCOL (KOOS 93-3)	6.7	6.0	6.3	WIZARD (MB 41)	5.3	5.3	5.3
ELF	5.3	7.3	6.3	ACADEMY (PC-93-1)	4.7	5.7	5.2
ADVANTAGE	6.3	6.0	6.2	APR 131	6.3	4.0	5.2
QUICKSTART	6.0	6.3	6.2	BUCCANEER II (WVPB 92-4)	4.0	6.3	5.2
APR 066	6.7	5.3	6.0	CATALINA (PST-GH-94)	5.0	5.3	5.2
ASP400 (APR 106)	5.0	7.0	6.0	DANCER	4.0	6.3	5.2
NIGHT HAWK	5.3	6.7	6.0	EXCEL (MB 1-5)	5.3	5.0	5.2
PANTHER (ZPS-PR1)	4.7	7.3	6.0	LAREDO	4.3	6.0	5.2
PRELUDE III (LRF-94-B6)	5.0	7.0	6.0	PENNANT II (MB 42)	5.3	5.0	5.2
RADIANT (MB 44)	5.3	6.7	6.0	PREMIER II (BAR USA 94-II)	5.0	5.3	5.2
ROADRUNNER (PST-2ET)	6.0	6.0	6.0	CADDIESHACK (MED 5071)	5.7	4.3	5.0
BRIGHTSTAR II (PST-2M3)	5.0	6.7	5.8	MAJESTY (MB 43)	5.3	4.7	5.0
CITATION III (PST-2DGR)	6.0	5.7	5.8	WIND STAR (PST-28M)	4.0	6.0	5.0
NAVAJO	5.0	6.7	5.8	CAS-LP23	4.0	5.7	4.8
ASCEND (MB 45)	5.3	6.3	5.8	SPELL BOUND (WVPB-93-KFK)	4.0	5.7	4.8
CHAPARRAL (PST-2DIM)	5.3	6.3	5.8	SR 4400 (SRX 4400)	5.7	4.0	4.8
DSV NA 9402	5.3	6.3	5.8	TOP GUN (J-1703)	4.0	5.7	4.8
LEGACY II (LESCO-TWF)	5.3	6.3	5.8	BRIGHTSTAR	3.3	6.3	4.8
NINE-O-ONE	6.3	5.3	5.8	PASSPORT (PST-2FF)	4.3	5.3	4.8
SATURN II (ZPS-2ST)	6.3	5.3	5.8	FIGARO	3.3	6.0	4.7
STALLION SUPREME (PSI-E-1)	5.3	6.3	5.8	MONTEREY (J-1706)	3.7	5.7	4.7
SECRETARIAT (RPBD)	5.7	5.7	5.7	WIND DANCE (MB 46)	5.7	3.7	4.7
SONATA (PST-2R3)	5.7	5.7	5.7	ACCENT	4.3	5.0	4.7
CUTTER	5.3	6.0	5.7	HEAD START (PICK ER 84-91)	5.3	4.0	4.7
DIVINE	5.0	6.3	5.7	LINE DRIVE (MB 47)	4.3	5.0	4.7
MANHATTAN 3	5.0	6.3	5.7	R2 (ISI-R2)	4.0	5.3	4.7
MORNING STAR	6.0	5.3	5.7	BLAZER III (PICK 928)	4.3	4.7	4.5
PS-D-9	5.0	6.3	5.7	CIS-MBH (ISI-MHB)	3.7	5.3	4.5
RIVIERA II	4.3	7.0	5.7	LRF-94-C8	3.3	5.7	4.5
SR 4010 (SRX 4010)	5.3	6.0	5.7	MARDIGRAS (ZPS-2NV)	4.0	5.0	4.5
SR 4200	4.3	7.0	5.7	ESQUIRE	3.3	5.3	4.3
WILLIAMSBURG	4.3	7.0	5.7	OMNI	3.7	5.0	4.3
WX3-93	5.3	6.0	5.7	KOOS 93-6	3.0	5.3	4.2
APR 124	5.7	5.3	5.5	IMAGINE	5.7	2.0	3.8
ASSURE	5.0	6.0	5.5	REPELL III (LRF-94-C7)	2.3	5.3	3.8
BAR ER 5813	6.0	5.0	5.5				
DLP 1305	3.7	7.3	5.5	LSD VALUE	2.8	2.3	1.8
MVF-4-1	5.0	6.0	5.5	C.V. (%)	34.4	23.8	28.9
OMEGA3 (ZPS-2DR-94)	5.3	5.7	5.5				

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/ PINK SNOW MOLD RATED AT "ME1" IN 1996 AND AT "NJ1" IN 1995.

TABLE 23.

 LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	ME1	UB1	UB2	WA3	MEAN	NAME	ME1	UB1	UB2	WA3	MEAN
BRIGHTSTAR II (PST-2M3)	7.3	8.0	7.3	5.8	7.1	PS-D-9	5.0	5.7	6.0	3.8	5.1
ASCEND (MB 45)	8.3	6.0	6.3	4.0	6.2	APR 124	5.3	5.7	5.7	3.7	5.1
EXCEL (MB 1-5)	7.3	7.3	5.3	4.7	6.2	CITATION III (PST-2DGR)	6.3	5.0	5.3	3.7	5.1
WIND DANCE (MB 46)	8.7	5.3	6.0	4.5	6.1	BUCCANEER II (WVPB 92-4)	6.0	4.7	5.3	4.2	5.0
MAJESTY (MB 43)	7.0	6.3	6.3	4.5	6.0	LEGACY II (LESCO-TWF)	5.7	5.3	5.3	3.8	5.0
RADIANT (MB 44)	7.3	5.7	6.7	4.0	5.9	BRIGHTSTAR	5.3	5.3	6.7	2.7	5.0
PREMIER II (BAR USA 94-II)	7.3	5.0	6.0	5.3	5.9	NOBILITY	5.7	4.7	5.7	4.0	5.0
OMEGA3 (ZPS-2DR-94)	7.3	5.7	6.0	4.5	5.9	SR 4010 (SRX 4010)	7.0	3.3	5.3	4.3	5.0
IMAGINE	8.3	5.3	5.7	4.0	5.8	WX3-93	5.7	5.3	6.7	2.3	5.0
LAREDO	7.3	5.0	6.7	4.2	5.8	ASP400 (APR 106)	5.3	5.3	5.7	3.5	5.0
MARDIGRAS (ZPS-2NV)	6.7	5.0	6.7	4.8	5.8	ROADRUNNER (PST-2ET)	6.0	4.7	5.7	3.3	4.9
CALYPSO II	6.3	6.0	6.0	4.7	5.8	SPELL BOUND (WVPB-93-KFK)	5.7	4.7	5.7	3.7	4.9
LRF-94-C8	8.0	5.0	6.0	4.0	5.8	STALLION SUPREME (PSI-E-1)	6.0	4.7	5.7	3.3	4.9
PRELUDE III (LRF-94-B6)	8.3	6.0	5.3	3.3	5.8	DLP 1305	5.7	5.3	6.0	2.5	4.9
ELF	7.7	5.7	5.7	3.8	5.7	RIVIERA II	6.3	4.3	5.7	3.2	4.9
PALMER III (IRF-94-MPRH)	6.7	5.7	5.7	4.8	5.7	DANCER	6.3	4.7	5.7	2.7	4.8
PENNANT II (MB 42)	5.7	5.7	6.3	4.8	5.6	KOOS 93-6	4.3	6.0	5.7	3.3	4.8
BLAZER III (PICK 928)	5.7	7.0	6.0	3.7	5.6	MVF-4-1	5.3	5.0	6.0	3.0	4.8
PROTOCOL (KOGS 93-3)	7.3	5.7	5.7	3.7	5.6	STARDANCE (PST-2FE)	6.0	5.3	5.7	2.3	4.8
SONATA (PST-2R3)	7.3	5.7	6.0	3.3	5.6	WIZARD (MB 41)	5.3	5.3	5.3	3.3	4.8
HEAD START (PICK PR 84-91)	7.7	5.7	5.7	3.2	5.5	NAVAJO	5.0	5.7	5.3	3.2	4.8
PANTHER (ZPS-PR1)	7.7	5.0	5.7	3.8	5.5	PEGASUS	6.7	4.7	4.3	3.5	4.8
SECRETARIAT (RPBD)	6.3	5.7	6.3	3.8	5.5	R2 (ISI-R2)	5.0	4.7	6.0	3.2	4.7
PRIZM	6.0	5.7	6.7	3.7	5.5	ACADEMY (PC-93-1)	5.3	4.3	5.7	3.5	4.7
CIS-MBH (ISI-MHB)	6.0	5.3	7.0	3.7	5.5	ADVANTAGE	4.0	4.7	6.0	4.0	4.7
SUNSHINE (PICK LP 102-92)	6.3	5.0	7.0	3.7	5.5	PASSPORT (PST-2FF)	4.0	5.7	6.0	3.0	4.7
CATALINA (PST-GH-94)	5.7	6.0	7.0	3.2	5.5	WVPB-PR-C-2	5.3	4.7	5.0	3.7	4.7
EDGE	7.3	5.3	5.7	3.5	5.5	CAS-LP23	5.7	4.3	5.3	3.3	4.7
MONTEREY (J-1706)	5.3	6.7	6.0	3.8	5.5	APR 131	6.0	4.3	5.0	3.2	4.6
SR 4400 (SRX 4400)	7.0	5.3	5.7	3.8	5.5	NIGHT HAWK	5.3	5.0	5.0	3.0	4.6
ASSURE	6.7	5.7	6.0	3.3	5.4	EXPRESS	3.7	4.7	5.5	4.3	4.5
CHAPARRAL (PST-2DLM)	8.0	4.7	6.0	3.0	5.4	PST-2CB	5.3	4.3	4.3	4.2	4.5
ACCENT	5.7	5.7	6.7	3.5	5.4	VIVID	4.3	4.3	6.3	3.2	4.5
BLACKHAWK (TMI-EXFLP94)	6.3	4.3	6.3	4.3	5.3	NINE-O-ONE	4.3	3.3	5.7	4.7	4.5
LINE DRIVE (MB 47)	7.0	4.7	5.3	4.3	5.3	WX3-91	5.0	4.0	5.7	3.3	4.5
SR 4200	5.7	5.7	5.7	4.3	5.3	MORNING STAR	4.3	4.0	5.3	3.8	4.4
REPELL III (IRF-94-C7)	6.7	6.0	5.7	2.8	5.3	PRECISION	4.7	3.0	5.0	4.7	4.3
QUICKSTART	6.3	5.3	5.7	3.8	5.3	SATURN	4.0	4.7	4.7	4.0	4.3
CADDIESHACK (MED 5071)	5.3	6.3	6.7	2.7	5.3	STALLION SELECT	4.7	4.0	5.3	3.3	4.3
OMNI	6.3	5.3	6.0	3.3	5.3	BAR ER 5813	6.0	4.3	4.7	2.2	4.3
MANHATTAN 3	6.3	5.3	6.0	3.2	5.2	APR 066	5.0	4.0	5.3	2.3	4.2
TOP HAT	5.7	5.3	6.0	3.8	5.2	PENNFINE	4.7	4.0	5.0	2.5	4.0
ESQUIRE	6.0	5.0	6.0	3.7	5.2	FIGARO	3.3	4.0	5.0	3.3	3.9
SATURN II (ZPS-2ST)	5.7	5.7	5.7	3.7	5.2	DSV NA 9402	3.3	3.3	4.7	2.2	3.4
TOP GUN (J-1703)	6.0	5.7	6.3	2.7	5.2	DSV NA 9401	2.7	2.3	4.7	3.3	3.3
WILLIAMSBURG	5.7	5.7	5.7	3.7	5.2	LINN	1.3	3.0	.	1.7	2.0
ACHIEVER	7.7	4.3	5.3	3.3	5.2						
WIND STAR (PST-28M)	5.3	5.3	6.0	4.0	5.2	LSD VALUE	2.6	1.7	1.0	1.1	0.8
CUTTER	5.7	5.3	5.7	3.8	5.1	C.V. (%)	26.9	20.2	10.6	27.9	21.4
DIVINE	6.0	4.7	6.3	3.5	5.1						

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/ LEAF SPOT RATED AT "ME1" IN 1995, AT "UB1" IN 1996, AT "UB2" IN 1998 AND AT "WA3" IN 1994-95.

TABLE 24. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	IN1	NJ1	OHI	OK1	PA1	UB1	UB2	MEAN
LAREDO	7.7	7.7	7.0	9.0	8.7	6.7	8.0	7.8
MANHATTAN 3	8.3	8.2	5.7	9.0	8.0	8.0	7.3	7.8
ROADRUNNER (PST-2ET)	7.7	7.7	6.0	8.7	8.3	8.3	7.3	7.7
CADDIESHACK (MED 5071)	8.0	8.2	5.7	9.0	8.7	8.0	6.3	7.7
ACCENT	7.7	7.7	6.0	9.0	8.0	7.7	7.7	7.7
PASSPORT (PST-2FF)	7.0	7.2	6.3	8.3	9.0	8.3	7.0	7.6
WIND STAR (PST-28M)	7.3	8.2	5.7	8.3	8.0	7.7	8.0	7.6
R2 (ISI-R2)	6.7	7.8	6.7	8.7	8.7	7.0	7.3	7.5
ACHIEVER	5.7	7.8	6.3	9.0	8.3	8.0	7.7	7.5
CALYPSO II	6.3	7.8	6.7	8.7	8.7	7.7	7.0	7.5
SONATA (PST-2R3)	6.7	8.3	6.3	7.3	8.3	8.0	7.7	7.5
KOOS 93-6	7.7	7.5	5.7	8.3	8.3	8.0	7.0	7.5
MONTEREY (J-1706)	7.3	7.5	7.0	8.0	8.7	7.0	7.0	7.5
QUICKSTART	7.3	6.8	6.7	8.0	8.3	7.3	8.0	7.5
MARDIGRAS (ZPS-2NV)	7.7	6.3	5.3	8.3	9.0	8.0	7.3	7.4
BRIGHTSTAR II (PST-2M3)	8.0	7.2	5.7	8.3	7.7	7.7	7.3	7.4
PANTHER (ZPS-PR1)	7.7	7.7	6.7	7.7	8.0	6.0	8.0	7.4
EDGE	8.0	8.0	5.7	8.3	7.7	6.0	8.0	7.4
TOP GUN (J-1703)	7.0	7.3	7.3	8.3	8.7	6.0	7.0	7.4
APR 066	6.0	8.2	6.7	8.7	8.0	7.0	7.0	7.4
SR 4400 (SRX 4400)	7.7	6.5	6.7	8.7	9.0	6.3	6.7	7.4
PRECISION	6.7	7.3	5.7	8.0	8.0	8.3	7.3	7.3
CHAPARRAL (PST-2DLM)	7.7	7.7	6.0	8.0	7.7	7.3	7.0	7.3
PS-D-9	7.3	7.2	6.7	6.7	8.3	7.7	7.3	7.3
CATALINA (PST-GH-94)	6.7	8.5	6.0	6.3	8.7	7.7	7.0	7.3
SUNSHINE (PICK LP 102-92)	6.7	7.3	6.0	8.0	8.3	7.0	7.0	7.2
CUTTER	7.3	7.7	6.0	8.7	8.7	4.3	7.3	7.1
STALLION SUPREME (PSI-E-1)	7.3	7.2	5.7	8.7	7.7	7.0	6.3	7.1
SATURN II (ZPS-2ST)	6.7	6.3	6.7	8.3	7.3	7.3	7.0	7.1
WIND DANCE (MB 46)	6.7	7.0	7.0	6.7	8.7	7.0	6.7	7.1
BLACKHAWK (TMI-EXFLP94)	7.0	6.8	5.7	8.7	8.7	4.7	8.0	7.1
EXPRESS	7.0	7.5	5.7	8.3	8.7	5.7	6.5	7.0
SR 4200	6.7	7.5	6.3	6.7	8.0	6.7	7.3	7.0
APR 124	6.3	7.8	5.7	8.3	7.7	6.7	6.7	7.0
WIZARD (MB 41)	6.7	7.0	5.7	8.0	8.7	6.0	7.0	7.0
LRF-94-C8	8.0	6.5	5.3	8.7	7.7	6.3	6.3	7.0
APR 131	6.3	5.8	6.0	8.0	8.7	7.3	6.7	7.0
ASP400 (APR 106)	6.0	7.7	6.0	8.3	6.3	7.3	7.0	7.0
PREMIER II (BAR USA 94-II)	6.0	7.3	5.7	8.0	7.7	6.7	7.3	7.0
PROTOCOL (KOOS 93-3)	5.0	7.0	6.0	8.7	8.7	6.0	7.3	7.0
ESQUIRE	6.3	7.7	6.0	8.3	8.3	6.3	5.5	6.9
OMEGA3 (ZPS-2DR-94)	7.3	7.2	6.7	8.0	8.0	6.0	5.3	6.9
RIVIERA II	4.3	6.5	6.7	8.0	8.0	7.3	7.7	6.9
DIVINE	7.0	6.7	6.3	7.3	8.7	6.0	6.3	6.9
LEGACY II (LESCO-TWF)	6.0	8.0	5.7	6.7	8.7	7.3	6.0	6.9
NOBILITY	6.7	6.3	6.0	6.7	8.7	8.0	6.0	6.9
SPELL BOUND (WVPB-93-KFK)	6.3	6.0	6.3	9.0	8.3	6.7	5.7	6.9
VIVID	5.7	7.5	5.3	8.3	8.0	6.3	7.0	6.9
HEAD START (PICK PR 84-91)	7.3	6.5	5.7	8.0	9.0	5.7	6.0	6.9
MVF-4-1	6.3	7.7	5.7	7.7	6.3	6.3	8.0	6.9
ACADEMY (PC-93-1)	5.3	7.0	5.0	9.0	8.7	6.0	7.0	6.9
MORNING STAR	4.7	6.8	6.0	6.7	8.3	8.3	7.0	6.8

TABLE 24. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) 1995-98 DATA
 DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE

NAME	IN1	NJ1	OHI	OK1	PA1	UB1	UB2	MEAN
BLAZER III (PICK 928)	6.7	6.7	6.7	8.3	7.7	6.3	5.3	6.8
NAVAJO	6.7	5.7	5.7	8.3	8.3	6.7	6.3	6.8
OMNI	6.7	7.0	6.0	7.7	8.7	5.7	6.0	6.8
PENNANT II (MB 42)	6.7	6.7	5.7	8.0	7.7	6.3	6.7	6.8
LINE DRIVE (MB 47)	6.3	6.5	7.0	8.3	7.3	7.0	5.0	6.8
PRELUDE III (LRF-94-B6)	9.0	6.5	6.0	7.0	8.3	5.0	5.7	6.8
PENNFINE	7.3	7.0	5.7	5.7	8.0	7.0	.	6.8
SECRETARIAT (RPBD)	5.7	7.0	6.0	8.0	8.0	7.3	5.3	6.8
PRIZM	7.3	7.0	5.7	8.7	8.3	5.3	5.0	6.8
SR 4010 (SRX 4010)	6.7	6.7	6.3	7.0	8.3	6.0	6.3	6.8
ADVANTAGE	6.3	7.0	6.3	6.3	8.7	6.7	6.0	6.8
TOP HAT	7.0	6.7	6.3	8.7	7.7	5.3	5.3	6.7
BUCCANEER II (WVPB 92-4)	5.7	6.8	6.0	8.3	8.0	6.0	6.0	6.7
WILLIAMSBURG	6.0	6.2	6.0	7.3	7.3	7.3	6.7	6.7
CIS-MBH (ISI-MHB)	6.3	7.3	6.7	6.0	7.3	7.7	5.3	6.7
WX3-91	5.3	7.3	5.3	7.3	8.3	6.0	7.0	6.7
SATURN	5.7	5.5	6.3	7.0	9.0	6.7	6.3	6.6
WX3-93	6.0	5.8	6.3	8.3	8.7	5.0	6.3	6.6
BRIGHTSTAR	6.7	6.3	6.0	8.7	9.0	3.7	6.0	6.6
NINE-O-ONE	7.3	6.7	6.0	6.7	9.0	4.0	6.5	6.6
REPELL III (LRF-94-C7)	7.7	7.3	5.3	7.7	7.3	5.3	5.3	6.6
PALMER III (LRF-94-MPRH)	6.0	6.7	6.3	8.3	7.7	6.0	5.0	6.6
PST-2CB	6.0	6.3	7.3	6.0	8.0	6.3	6.0	6.6
STARDANCE (PST-2FE)	6.7	7.2	5.7	7.7	5.3	7.0	6.3	6.5
ASSURE	6.3	5.8	6.0	8.0	7.3	6.7	5.3	6.5
ASCEND (MB 45)	6.3	6.0	6.3	7.3	8.0	6.3	5.0	6.5
STALLION SELECT	6.3	6.3	5.0	7.7	7.0	6.0	6.7	6.4
CITATION III (PST-2DGR)	5.3	7.2	5.7	8.0	7.0	5.7	6.0	6.4
LINN	7.3	6.3	5.0	7.0	8.0	4.7	.	6.4
DLP 1305	5.3	6.7	5.0	8.0	6.7	6.3	.	6.3
WVPB-PR-C-2	5.3	6.0	5.0	7.7	8.3	4.3	7.3	6.3
BAR ER 5813	6.0	5.3	6.0	7.3	7.3	5.7	6.3	6.3
MAJESTY (MB 43)	6.0	6.8	6.0	6.7	8.0	5.3	4.7	6.2
PEGASUS	6.3	5.0	6.7	6.3	7.3	4.7	6.7	6.1
DSV NA 9402	5.3	5.8	5.0	8.0	7.3	5.0	6.0	6.1
CAS-LP23	4.7	5.8	5.3	7.7	8.7	5.0	5.0	6.0
RADIANT (MB 44)	5.0	5.7	6.0	7.0	9.0	5.0	4.3	6.0
FIGARO	4.0	4.0	5.0	8.3	6.0	6.3	8.0	6.0
IMAGINE	5.3	5.7	5.7	5.7	7.7	6.7	4.7	5.9
DANCER	6.0	5.0	5.7	7.3	8.0	2.3	6.0	5.8
EXCEL (MB 1-5)	5.0	4.7	5.0	8.0	8.0	5.0	3.3	5.6
DSV NA 9401	3.7	5.7	4.7	7.3	7.3	3.7	6.7	5.6
NIGHT HAWK	5.0	4.8	5.3	7.0	7.7	5.3	3.7	5.5
ELF	4.7	4.8	6.3	6.3	6.0	4.3	4.0	5.2
LSD VALUE	2.4	1.9	1.8	1.8	1.9	2.7	2.3	0.8
C.V. (%)	23.0	25.1	18.7	14.2	14.7	26.4	21.9	21.4

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.

TABLE 25. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	BC1	IN1	NJ1	PA1	RI1	UB1	VA1	MEAN
TOP GUN (J-1703)	7.3	7.3	6.8	5.7	8.0	7.7	7.0	7.1
SR 4400 (SRX 4400)	8.0	7.3	6.3	6.7	7.0	7.0	7.3	7.1
PENNFINE	9.0	7.0	6.7	7.0	5.7	7.0	7.0	7.0
EXPRESS	9.0	5.3	6.3	6.7	7.7	7.7	6.7	7.0
ACHIEVER	9.0	6.0	6.0	6.3	6.7	7.7	7.3	7.0
HEAD START (PICK PR 84-91)	9.0	7.0	5.3	6.0	7.3	7.7	6.7	7.0
NINE-O-ONE	9.0	6.0	6.5	6.3	7.0	6.7	7.3	7.0
PRELUDE III (LRF-94-B6)	9.0	8.0	4.8	7.0	6.0	7.7	6.3	7.0
PRIZM	9.0	8.0	6.2	6.7	6.7	7.7	4.7	7.0
ACCENT	8.3	7.0	6.7	5.0	7.0	7.7	7.0	7.0
LINN	9.0	8.7	5.3	6.0	6.7	7.0	6.0	7.0
CUTTER	9.0	7.3	5.5	5.0	7.3	8.0	6.3	6.9
MANHATTAN 3	9.0	5.7	5.5	6.7	7.0	7.7	7.0	6.9
APR 124	9.0	5.3	6.7	6.3	7.7	6.7	6.7	6.9
BLACKHAWK (TMI-EXFLP94)	9.0	6.0	5.7	6.3	7.0	7.3	6.7	6.9
BRIGHTSTAR II (PST-2M3)	9.0	6.3	5.0	6.7	6.7	7.0	7.3	6.9
EDGE	9.0	7.0	6.3	5.7	7.0	7.3	5.7	6.9
CHAPARRAL (PST-2DLM)	8.0	7.7	4.2	7.0	8.7	5.3	7.0	6.8
APR 131	9.0	5.3	6.3	7.0	6.7	7.3	6.0	6.8
CADDIESHACK (MED 5071)	9.0	7.0	6.0	5.0	5.7	8.0	7.0	6.8
MVF-4-1	8.3	6.0	6.0	6.3	7.3	7.0	6.7	6.8
PROTOCOL (KOOS 93-3)	9.0	5.0	6.2	7.3	6.3	7.7	6.0	6.8
BLAZER III (PICK 928)	9.0	5.0	4.7	6.7	6.7	7.7	7.3	6.7
MONTEREY (J-1706)	8.0	7.3	5.0	6.7	8.0	6.7	5.3	6.7
ESQUIRE	9.0	5.7	6.2	7.0	6.7	7.7	4.7	6.7
SUNSHINE (PICK LP 102-92)	9.0	5.3	6.2	6.0	6.7	7.0	6.7	6.7
KOOS 93-6	8.0	6.3	6.2	6.7	5.7	7.7	6.0	6.6
SATURN	8.0	6.0	5.8	5.3	7.0	7.0	7.3	6.6
WILLIAMSBURG	9.0	6.0	5.2	6.3	6.3	7.0	6.7	6.6
DSV NA 9401	9.0	6.0	5.0	6.7	7.0	5.7	7.0	6.6
WIND STAR (PST-28M)	9.0	7.0	5.7	4.7	6.7	6.7	6.7	6.6
DSV NA 9402	9.0	6.7	5.5	5.3	6.7	5.7	7.3	6.6
ASSURE	7.3	6.3	5.7	6.0	6.7	8.0	6.0	6.6
DLP 1305	8.0	5.0	6.0	6.0	7.3	7.0	6.7	6.6
FIGARO	9.0	4.3	5.3	6.3	7.7	7.0	6.3	6.6
NOBILITY	8.0	6.0	6.7	5.3	6.0	7.7	6.3	6.6
OMEGA3 (ZPS-2DR-94)	7.0	7.0	5.0	6.7	6.3	8.0	6.0	6.6
REPELL III (LRF-94-C7)	8.0	6.7	5.2	5.3	7.3	6.3	7.0	6.5
PS-D-9	7.3	6.7	6.0	5.7	5.7	7.3	7.0	6.5
PASSPORT (PST-2FF)	9.0	4.0	4.3	7.3	7.0	7.0	7.0	6.5
STALLION SUPREME (PSI-E-1)	8.0	6.3	6.0	6.3	4.0	7.7	7.3	6.5
WX3-93	9.0	5.3	5.0	6.0	7.0	7.3	6.0	6.5
OMNI	8.0	5.7	5.8	6.7	6.0	7.3	6.0	6.5
ASP400 (APR 106)	8.0	5.3	5.2	5.0	7.3	8.3	6.3	6.5
ELF	8.3	5.0	4.8	6.7	7.7	7.3	5.7	6.5
SR 4200	9.0	5.7	6.0	4.3	6.7	6.3	7.3	6.5
PST-2CB	8.0	4.0	5.2	6.3	7.0	7.7	7.0	6.5
APR 066	8.3	5.7	5.0	6.0	7.0	7.0	6.0	6.4
WX3-91	7.0	5.3	6.2	5.7	7.3	7.0	6.3	6.4
CALYPSO II	9.0	4.0	5.8	6.0	6.7	7.7	5.7	6.4
ROADRUNNER (PST-2ET)	9.0	5.0	4.3	5.7	7.7	6.7	6.3	6.4
CITATION III (PST-2DGR)	9.0	3.7	5.0	5.7	7.0	7.7	6.7	6.4

TABLE 25. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) 1995-98 DATA
 RED THREAD RATINGS 1-9; 9=NO DISEASE

NAME	BC1	IN1	NJ1	PA1	RI1	UB1	VA1	MEAN
QUICKSTART	9.0	5.7	5.0	5.0	6.3	7.0	6.7	6.4
NAVAJO	8.0	7.0	5.2	6.0	5.7	6.3	6.3	6.4
BUCCANEER II (WVPB 92-4)	9.0	5.0	5.8	6.0	5.3	7.0	6.3	6.4
WVPB-PR-C-2	9.0	4.3	5.2	5.3	6.7	7.0	7.0	6.4
PANTHER (ZPS-PR1)	9.0	3.3	6.3	5.0	6.7	7.3	6.7	6.3
SONATA (PST-2R3)	9.0	3.7	4.7	6.7	6.7	7.0	6.7	6.3
STARDANCE (PST-2FE)	9.0	6.7	5.7	5.0	5.0	7.7	5.3	6.3
STALLION SELECT	8.0	5.3	7.0	4.0	6.0	6.3	7.7	6.3
DIVINE	8.0	5.0	5.5	4.7	6.7	7.3	7.0	6.3
PEGASUS	7.7	5.0	5.8	5.0	6.7	7.0	7.0	6.3
MORNING STAR	8.0	5.0	6.8	6.3	4.3	6.0	7.7	6.3
CATALINA (PST-GH-94)	8.0	3.7	5.3	6.7	6.3	7.0	7.0	6.3
DANCER	9.0	5.0	5.3	5.3	5.7	7.3	6.3	6.3
VIVID	8.0	3.7	5.7	5.7	7.3	7.3	6.3	6.3
SPELL BOUND (WVPB-93-KFK)	7.3	4.7	6.2	6.0	6.7	7.0	6.0	6.3
SR 4010 (SRX 4010)	9.0	5.0	5.5	5.3	5.7	6.3	7.0	6.3
PRECISION	7.0	4.3	7.2	6.0	6.3	7.0	6.0	6.3
TOP HAT	9.0	4.3	5.5	6.0	5.3	6.7	7.0	6.3
LINE DRIVE (MB 47)	9.0	5.0	5.3	6.3	5.3	7.0	5.7	6.2
LRF-94-C8	8.3	7.3	4.5	4.3	5.3	7.3	6.3	6.2
MARDIGRAS (ZPS-2NV)	9.0	4.7	5.0	6.0	5.3	6.7	6.7	6.2
NIGHT HAWK	9.0	4.7	5.3	5.0	5.3	7.0	7.0	6.2
EXCEL (MB 1-5)	8.0	5.0	4.5	7.0	5.7	7.7	5.3	6.2
BRIGHTSTAR	9.0	5.3	4.7	5.7	4.7	7.3	6.3	6.1
CAS-LP23	9.0	3.3	4.7	5.7	6.7	6.3	7.3	6.1
LAREDO	6.3	4.3	7.0	6.7	6.3	7.0	5.3	6.1
PENNANT II (MB 42)	9.0	3.3	4.7	4.3	7.3	7.3	7.0	6.1
SATURN II (ZPS-2ST)	9.0	5.0	4.8	4.0	6.3	7.7	6.0	6.1
PREMIER II (BAR USA 94-II)	7.3	5.7	5.8	4.7	5.7	6.7	6.7	6.1
MAJESTY (MB 43)	9.0	3.0	5.7	5.0	6.0	7.3	6.0	6.0
RIVIERA II	9.0	4.0	5.5	4.7	5.3	6.7	6.7	6.0
SECRETARIAT (RPBD)	9.0	3.0	5.7	5.7	4.3	8.0	6.0	6.0
R2 (ISI-R2)	8.0	4.7	6.0	5.3	4.3	7.7	5.7	6.0
CIS-MBH (ISI-MHB)	8.0	4.3	5.5	5.0	5.3	7.0	6.3	5.9
ACADEMY (PC-93-1)	9.0	3.7	5.2	5.3	6.0	6.7	5.7	5.9
WIZARD (MB 41)	9.0	5.0	4.8	4.7	5.3	7.0	5.7	5.9
RADIANT (MB 44)	7.3	3.3	4.8	5.3	6.3	7.0	7.0	5.9
ASCEND (MB 45)	9.0	3.0	5.0	6.0	5.7	7.0	5.3	5.9
IMAGINE	9.0	4.3	4.3	5.3	5.7	6.3	6.0	5.9
PALMER III (LRF-94-MPRH)	8.0	3.0	5.7	4.7	5.7	7.0	7.0	5.9
BAR ER 5813	7.3	5.0	4.3	4.7	6.3	6.7	6.3	5.8
LEGACY II (LESCO-TWF)	9.0	2.7	4.3	5.7	5.3	6.3	7.0	5.8
WIND DANCE (MB 46)	8.0	3.3	4.2	5.7	7.0	6.3	5.3	5.7
ADVANTAGE	8.3	3.3	4.8	4.0	6.0	6.7	5.3	5.5
LSD VALUE	2.1	3.7	1.9	2.1	2.4	1.2	1.9	0.9
C.V. (%)	15.0	43.5	29.8	22.4	23.3	10.9	17.9	23.6

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 26. BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	IL1	IN1	ME1	MO1	NE1	NJ1	OK1	VA1	MEAN
ACHIEVER	9.0	7.7	7.0	7.0	6.4	6.3	6.5	6.8	7.1
MANHATTAN 3	9.0	8.3	6.7	5.7	7.7	5.0	7.0	5.5	6.9
LAREDO	7.0	7.0	7.0	5.7	7.4	5.7	7.2	6.0	6.6
ACCENT	6.0	8.0	6.0	5.3	7.2	5.7	7.5	6.8	6.6
SECRETARIAT (RPBD)	6.7	8.0	4.7	4.7	7.3	7.3	7.0	6.8	6.6
PALMER III (LRF-94-MPRH)	7.0	7.3	7.0	3.7	7.0	6.3	7.0	7.0	6.5
PANTHER (ZPS-PR1)	8.0	8.0	7.0	4.0	7.3	5.0	6.8	5.8	6.5
R2 (ISI-R2)	7.3	6.7	5.3	6.7	7.0	5.7	6.8	6.5	6.5
CALYPSO II	6.3	9.0	6.7	4.0	6.6	6.0	7.5	5.5	6.4
CIS-MBH (ISI-MHB)	7.0	7.3	7.0	4.3	7.1	6.0	6.7	6.0	6.4
TOP HAT	6.3	7.7	7.0	4.7	6.8	5.0	7.2	6.7	6.4
TOP GUN (J-1703)	7.7	7.0	5.3	5.7	6.0	6.0	6.8	6.7	6.4
REPELL III (LRF-94-C7)	6.7	7.0	8.0	5.3	7.1	5.0	5.8	5.8	6.3
QUICKSTART	7.0	8.3	4.7	4.3	6.9	6.3	6.3	6.7	6.3
ESQUIRE	6.7	6.7	6.7	5.0	6.9	6.0	6.5	5.8	6.3
SATURN II (ZPS-2ST)	7.0	7.3	6.3	4.3	7.6	5.7	5.8	6.2	6.3
SR 4400 (SRX 4400)	7.3	7.3	5.0	4.3	6.6	5.0	7.2	7.3	6.3
BRIGHTSTAR	6.7	7.3	5.7	5.3	6.2	6.0	6.5	6.2	6.2
SR 4200	7.3	8.3	4.7	3.7	6.9	4.7	7.5	6.7	6.2
PRIZM	6.0	7.0	5.7	5.0	7.0	6.0	6.7	6.2	6.2
MONTEREY (J-1706)	7.3	7.0	4.3	4.3	6.8	6.3	6.8	6.5	6.2
MORNING STAR	7.3	6.3	5.7	5.0	6.2	4.3	6.7	7.7	6.2
EXPRESS	6.3	7.7	5.0	5.0	7.2	5.0	6.3	6.5	6.1
CADDIESHACK (MED 5071)	5.7	6.7	5.3	4.0	7.3	7.0	7.2	5.8	6.1
SONATA (PST-2R3)	6.0	6.7	6.0	5.7	6.8	5.3	6.8	5.7	6.1
WIND STAR (PST-28M)	7.3	6.0	5.0	5.0	7.2	5.7	6.7	5.8	6.1
NOBILITY	6.7	6.3	4.7	5.0	7.3	5.7	6.8	6.0	6.1
ROADRUNNER (PST-2ET)	6.7	6.3	6.3	4.3	7.3	5.3	6.7	5.5	6.1
LRF-94-C8	5.3	7.3	7.7	3.7	7.2	5.3	5.5	6.3	6.0
ASSURE	5.7	6.0	6.3	6.0	6.7	5.0	6.3	6.2	6.0
CATALINA (EST-GH-94)	6.0	7.3	5.7	5.0	7.3	5.3	6.2	5.3	6.0
BUCCANEER II (WVPB 92-4)	7.0	5.0	6.0	6.3	6.6	4.3	6.2	6.7	6.0
MVF-4-1	7.0	6.7	5.3	5.7	6.3	4.7	6.3	5.8	6.0
STALLION SUPREME (PSI-E-1)	8.3	6.0	6.0	4.7	6.0	4.3	6.2	6.3	6.0
SPELL BOUND (WVPB-93-KFK)	7.0	6.3	4.7	6.0	6.8	4.7	6.3	6.0	6.0
VIVID	7.0	6.0	6.0	4.3	6.8	5.0	6.2	6.3	6.0
EDGE	6.3	8.0	5.3	3.3	6.0	5.7	5.8	7.0	5.9
SR 4010 (SRX 4010)	7.0	7.7	4.7	4.7	6.8	4.3	6.5	5.8	5.9
PRELUDE III (LRF-94-B6)	4.3	6.0	7.3	4.0	7.7	5.3	6.2	6.5	5.9
PROTOCOL (KOOS 93-3)	6.7	6.0	6.7	5.0	5.7	5.0	6.2	6.0	5.9
NINE-O-ONE	6.3	6.7	5.3	5.3	7.2	4.7	5.8	5.7	5.9
BRIGHTSTAR II (PST-2M3)	4.7	7.0	7.0	4.3	7.2	6.0	5.8	4.8	5.9
HEAD START (PICK PR 84-91)	5.3	6.7	6.7	4.7	7.3	4.7	5.8	5.7	5.9
BLACKHAWK (TMI-EXFLP94)	7.3	7.3	5.0	3.3	6.3	5.0	6.7	5.8	5.9
MARDIGRAS (ZPS-2NV)	6.3	5.7	6.3	4.0	7.6	5.3	5.7	5.8	5.8
OMNI	6.7	7.7	6.7	5.0	5.7	4.0	6.0	5.0	5.8
PST-2CB	7.0	6.3	5.7	3.3	7.3	4.3	5.8	6.8	5.8
WX3-91	7.3	5.3	6.0	4.7	6.7	5.3	5.3	6.0	5.8
STARDANCE (PST-2FE)	5.0	6.7	6.7	5.3	7.4	4.3	5.5	5.7	5.8
LINE DRIVE (MB 47)	6.0	5.3	6.0	3.7	6.7	6.7	6.2	6.0	5.8
DIVINE	5.7	6.7	6.3	3.0	6.8	5.7	7.0	5.3	5.8
PREMIER II (BAR USA 94-II)	5.3	7.7	5.0	3.7	6.6	6.0	6.3	5.8	5.8

TABLE 26. BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 1995-98 DATA
 BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	IL1	IN1	ME1	MO1	NE1	NJ1	OK1	VA1	MEAN
SUNSHINE (PICK LP 102-92)	4.7	7.0	6.0	4.0	7.2	5.3	6.0	6.2	5.8
ELF	6.7	4.7	5.7	5.0	7.3	5.3	6.2	5.5	5.8
PRECISION	6.0	7.3	6.0	4.3	6.1	5.0	5.5	5.8	5.8
KOOS 93-6	7.0	5.7	4.7	4.3	7.0	5.0	6.0	5.8	5.7
ACADEMY (PC-93-1)	6.7	5.3	5.3	5.0	6.1	5.3	5.7	6.0	5.7
ASCEND (MB 45)	6.0	6.3	6.7	3.0	7.2	5.3	5.7	5.2	5.7
APR 066	7.0	7.3	4.3	3.7	6.3	4.0	6.2	6.5	5.7
SATURN	6.7	6.7	4.7	5.0	6.3	4.0	6.0	6.0	5.7
BAR ER 5813	4.3	6.0	5.7	4.7	6.2	5.0	7.0	6.2	5.6
WIZARD (MB 41)	7.0	6.7	5.7	3.7	6.3	4.7	5.8	5.2	5.6
CUTTER	5.7	6.3	4.0	4.3	7.0	5.0	6.2	6.5	5.6
CITATION III (PST-2DGR)	6.0	5.7	7.7	3.7	7.1	4.3	6.2	4.3	5.6
PENNFINE	6.7	7.0	4.3	5.0	5.9	3.0	6.7	6.3	5.6
OMEGA3 (ZPS-2DR-94)	3.3	6.7	6.0	4.3	7.4	5.3	5.8	5.7	5.6
WX3-93	6.0	6.7	5.3	4.3	6.4	4.7	5.8	5.3	5.6
WVPB-PR-C-2	6.3	5.3	5.0	5.3	6.2	4.7	5.7	6.0	5.6
PASSPORT (EST-2FF)	6.3	7.3	4.0	3.3	7.1	4.3	5.8	6.2	5.6
ASP400 (AER 106)	5.7	5.7	4.7	4.3	6.7	5.3	6.2	5.8	5.5
MAJESTY (MB 43)	6.0	5.7	6.7	4.0	6.4	5.3	5.5	4.5	5.5
WILLIAMSBURG	6.3	5.0	4.3	4.3	7.2	4.0	6.5	6.3	5.5
BLAZER III (PICK 928)	6.3	6.3	5.0	3.3	6.7	4.3	5.5	6.3	5.5
PS-D-9	5.7	5.7	4.3	4.7	6.7	3.3	6.5	6.5	5.4
RIVIERA II	5.0	4.3	5.3	5.0	7.0	4.3	6.0	6.2	5.4
APR 131	5.0	5.7	5.7	3.3	6.4	4.7	6.3	6.0	5.4
PENNANT II (MB 42)	6.0	7.0	4.7	3.0	7.1	4.3	6.0	4.8	5.4
NIGHT HAWK	5.3	5.3	5.7	4.7	5.4	4.0	6.2	6.0	5.3
WIND DANCE (MB 46)	4.3	5.3	6.7	4.3	6.7	4.7	5.7	4.5	5.3
IMAGINE	5.7	6.3	6.7	2.7	6.7	3.3	5.8	4.8	5.3
PEGASUS	4.3	6.7	5.7	3.3	6.0	3.3	6.7	6.0	5.3
RADIANT (MB 44)	4.7	5.3	6.0	3.7	6.8	4.3	5.7	4.8	5.2
LEGACY II (LESCO-TWF)	5.0	4.7	4.7	4.0	7.0	4.0	6.0	5.7	5.1
STALLION SELECT	3.7	4.0	5.0	5.7	5.4	4.3	5.8	6.3	5.0
APR 124	3.0	5.7	4.0	4.3	6.6	5.3	5.8	5.5	5.0
ADVANTAGE	4.7	4.3	5.0	4.0	7.4	4.3	5.2	5.0	5.0
NAVAJO	3.3	5.7	5.0	3.7	5.6	4.0	6.5	6.2	5.0
DANCER	4.3	5.0	5.7	4.3	5.2	4.0	5.3	5.5	4.9
CHAPARRAL (PST-2DLM)	4.3	4.7	7.0	3.0	6.7	3.3	5.8	4.3	4.9
CAS-LP23	3.3	6.0	5.3	3.0	5.7	4.0	5.7	5.3	4.8
EXCEL (MB 1-5)	3.7	6.0	6.7	3.3	5.9	3.3	4.5	4.7	4.8
DLP 1305	2.7	5.3	3.3	2.7	5.2	3.7	6.0	5.8	4.3
FIGARO	2.3	5.0	2.3	3.0	3.9	3.3	6.3	5.5	4.0
DSV NA 9402	2.7	3.3	3.7	6.0	4.8	2.3	4.3	4.5	4.0
DSV NA 9401	3.0	2.3	3.3	5.3	4.6	3.7	4.3	4.0	3.8
LINN	2.3	3.7	2.3	4.3	5.4	1.3	4.0	4.7	3.5
LSD VALUE	2.5	2.5	2.3	2.2	1.2	1.8	1.5	2.4	0.7
C.V. (%)	26.2	24.5	25.9	30.9	20.0	23.0	21.2	35.6	26.5

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 27.

PYTHIUM BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	IL2	ME1	MEAN	NAME	IL2	ME1	MEAN
CHAPARRAL (PST-2DLM)	4.7	7.3	6.0	STALLION SUPREME (PSI-E-1)	3.0	5.0	4.0
LAREDO	5.0	6.3	5.7	WIND DANCE (MB 46)	2.7	5.3	4.0
ACHIEVER	4.7	6.3	5.5	ASCEND (MB 45)	2.0	5.7	3.8
REPELL III (LRF-94-C7)	2.3	8.7	5.5	R2 (ISI-R2)	1.7	6.0	3.8
PALMER III (LRF-94-MPRH)	3.3	7.3	5.3	RIVIERA II	2.0	5.7	3.8
PRELUDE III (LRF-94-B6)	2.0	8.7	5.3	CATALINA (PST-GH-94)	2.7	5.0	3.8
IMAGINE	2.0	8.3	5.2	LINE DRIVE (MB 47)	2.3	5.3	3.8
TRF-94-C8	2.7	7.7	5.2	PRIZM	2.7	5.0	3.8
MONTEREY (J-1706)	3.7	6.7	5.2	OMEGA3 (ZPS-2DR-94)	1.7	5.7	3.7
TOP HAT	2.3	8.0	5.2	ACADEMY (PC-93-1)	3.7	3.7	3.7
DIVINE	3.0	7.3	5.2	CUTTER	2.0	5.3	3.7
SATURN II (ZPS-2ST)	4.0	6.0	5.0	MVF-4-1	2.0	5.3	3.7
ASSURE	2.0	7.7	4.8	PROTOCOL (KOOS 93-3)	2.0	5.3	3.7
MARDIGRAS (ZPS-2NV)	4.0	5.7	4.8	SECRETARIAT (RPBD)	2.0	5.3	3.7
CALYPSO II	3.7	6.0	4.8	EXPRESS	2.3	4.7	3.5
MANHATTAN 3	4.3	5.3	4.8	LEGACY II (LESCO-TWF)	3.3	3.7	3.5
CITATION III (PST-2DGR)	3.3	6.0	4.7	NINE-O-ONE	2.0	5.0	3.5
SUNSHINE (PICK LP 102-92)	2.7	6.7	4.7	PRECISION	3.3	3.7	3.5
TOP GUN (J-1703)	3.3	6.0	4.7	WILLIAMSBURG	2.7	4.3	3.5
SONATA (PST-2R3)	4.3	5.0	4.7	WX3-91	1.7	5.3	3.5
ACCENT	2.3	6.7	4.5	BRIGHTSTAR	2.0	4.7	3.3
APR 066	5.7	3.3	4.5	ELF	1.0	5.7	3.3
BAR ER 5813	3.7	5.3	4.5	KOOS 93-6	1.7	5.0	3.3
BUCCANEER II (WVEB 92-4)	2.7	6.3	4.5	PS-D-9	2.0	4.7	3.3
CIS-MBH (ISI-MHB)	3.0	6.0	4.5	PEGASUS	1.3	5.3	3.3
ESQUIRE	2.7	6.3	4.5	SR 4400 (SRX 4400)	1.3	5.3	3.3
MAJESTY (MB 43)	2.7	6.3	4.5	WX3-93	1.3	5.3	3.3
PANTHER (ZPS-PR1)	2.0	7.0	4.5	PENNANT II (MB 42)	2.3	4.0	3.2
RADIANT (MB 44)	4.0	5.0	4.5	CAS-LP23	2.0	4.3	3.2
ROADRUNNER (PST-2ET)	2.0	7.0	4.5	MORNING STAR	2.0	4.3	3.2
WIZARD (MB 41)	2.0	7.0	4.5	QUICKSTART	2.7	3.7	3.2
APR 131	4.7	4.0	4.3	WVPB-PR-C-2	2.0	4.3	3.2
HEAD START (PICK PR 84-91)	2.0	6.7	4.3	SATURN	1.0	5.0	3.0
STARDANCE (PST-2FE)	2.0	6.7	4.3	PST-2CB	1.7	4.0	2.8
ADVANTAGE	2.3	6.3	4.3	DANCER	1.3	4.3	2.8
APR 124	5.0	3.7	4.3	SPELL BOUND (WVPB-93-KFK)	2.0	3.7	2.8
ASP400 (APR 106)	3.3	5.3	4.3	STALLION SELECT	2.0	3.7	2.8
BLACKHAWK (TMI-EXFLP94)	2.3	6.3	4.3	NAVAJO	2.0	3.3	2.7
BLAZER III (PICK 928)	1.3	7.3	4.3	NOBILITY	2.3	3.0	2.7
SR 4010 (SRX 4010)	3.3	5.3	4.3	NIGHT HAWK	1.0	4.3	2.7
VIVID	2.7	6.0	4.3	DLP 1305	1.3	3.3	2.3
WIND STAR (PST-28M)	2.7	6.0	4.3	DSV NA 9402	1.7	2.3	2.0
BRIGHTSTAR II (PST-2M3)	1.3	7.0	4.2	PENNFINE	1.0	3.0	2.0
PASSPORT (PST-2FF)	3.7	4.7	4.2	FIGARO	1.0	2.3	1.7
PREMIER II (BAR USA 94-II)	1.3	7.0	4.2	DSV NA 9401	1.3	1.7	1.5
SR 4200	2.0	6.3	4.2	LINN	1.0	1.0	1.0
CADDIESHACK (MED 5071)	3.7	4.3	4.0				
EDGE	3.3	4.7	4.0	LSD VALUE	2.1	2.4	1.6
EXCEL (MB 1-5)	1.0	7.0	4.0	C.V. (%)	52.6	28.2	36.0
OMNI	1.3	6.7	4.0				

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/ PYTHIUM BLIGHT RATED AT "IL2" IN 1998 AND AT "ME1" IN 1995.

TABLE 28. SUMMER (AUGUST) COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
SUMMER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	GA1	NAME	GA1
BRIGHTSTAR II (PST-2M3)	7.0	CADDIESHACK (MED 5071)	4.7
WIND DANCE (MB 46)	7.0	EDGE	4.7
PRELUDE III (LRF-94-B6)	6.7	ELF	4.7
ASCEND (MB 45)	6.3	EXPRESS	4.7
CHAPARRAL (PST-2DLM)	6.3	MARDIGRAS (ZPS-2NV)	4.7
EXCEL (MB 1-5)	6.3	NAVAJO	4.7
LINE DRIVE (MB 47)	6.3	PASSPORT (PST-2FF)	4.7
MAJESTY (MB 43)	6.3	PRECISION	4.7
PALMER III (LRF-94-MPRH)	6.3	PROTOCOL (KOOS 93-3)	4.7
PREMIER II (BAR USA 94-II)	6.3	PS-D-9	4.7
RADIANT (MB 44)	6.3	PST-2CB	4.7
REPELL III (LRF-94-C7)	6.3	RIVIERA II	4.7
ROADRUNNER (PST-2ET)	6.3	SATURN	4.7
CATALINA (PST-GH-94)	6.0	SPELL BOUND (WVPB-93-KFK)	4.7
CITATION III (PST-2DGR)	6.0	WIND STAR (PST-2SM)	4.7
IMAGINE	6.0	WVPB-PR-C-2	4.7
LRF-94-C8	6.0	WX3-91	4.7
MANHATTAN 3	6.0	ACADEMY (PC-93-1)	4.3
DIVINE	5.7	APR 066	4.3
NINE-O-ONE	5.7	APR 131	4.3
PENNANT II (MB 42)	5.7	BAR ER 5813	4.3
QUICKSTART	5.7	BLACKHAWK (TMI-EXFLP94)	4.3
STARDANCE (PST-2FE)	5.7	BLAZER III (PICK 928)	4.3
WX3-93	5.7	CIS-MBH (ISI-MHB)	4.3
APR 124	5.3	DLP 1305	4.3
BRIGHTSTAR	5.3	KOOS 93-6	4.3
CALYPSO II	5.3	MORNING STAR	4.3
PANTHER (ZPS-PR1)	5.3	NOBILITY	4.3
PRIZM	5.3	OMNI	4.3
SONATA (PST-2R3)	5.3	PEGASUS	4.3
VIVID	5.3	SATURN II (ZPS-2ST)	4.3
ADVANTAGE	5.0	SECRETARIAT (RPBD)	4.3
CAS-LP23	5.0	SR 4400 (SRX 4400)	4.3
CUTTER	5.0	ASSURE	4.0
ESQUIRE	5.0	BUCCANEER II (WVPB 92-4)	4.0
HEAD START (PICK PR 84-91)	5.0	DANCER	4.0
LAREDO	5.0	DSV NA 9402	4.0
LEGACY II (LESCO-TWF)	5.0	FIGARO	4.0
MONTEREY (J-1706)	5.0	MVF-4-1	4.0
NIGHT HAWK	5.0	SR 4200	4.0
OMEGA3 (ZPS-2DR-94)	5.0	STALLION SELECT	4.0
R2 (ISI-R2)	5.0	STALLION SUPREME (PSI-E-1)	4.0
SR 4010 (SRX 4010)	5.0	WILLIAMSBURG	4.0
SUNSHINE (PICK LP 102-92)	5.0	DSV NA 9401	3.7
TOP GUN (J-1703)	5.0	LINN	2.7
TOP HAT	5.0	PENNFINE	2.3
WIZARD (MB 41)	5.0		
ACCENT	4.7	LSD VALUE	1.2
ACHIEVER	4.7	C.V. (%)	15.1
ASP400 (APR 106)	4.7		

- 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/ SUMMER COLOR (AUGUST) RATED IN 1996 ONLY.

TABLE 29. FALL (NOVEMBER) COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	OK1	NAME	OK1
APR 124	4.7	BRIGHTSTAR	3.7
ASCEND (MB 45)	4.7	CADDIESHACK (MED 5071)	3.7
CHAPARRAL (PST-2DLM)	4.7	DIVINE	3.7
ELF	4.7	DSV NA 9401	3.7
MONTEREY (J-1706)	4.7	ESQUIRE	3.7
PRELUDE III (LRF-94-B6)	4.7	FIGARO	3.7
ROADRUNNER (PST-2ET)	4.7	MORNING STAR	3.7
SONATA (PST-2R3)	4.7	MVF-4-1	3.7
BAR ER 5813	4.3	NOBILITY	3.7
BRIGHTSTAR II (PST-2M3)	4.3	OMEGA3 (ZPS-2DR-94)	3.7
CALYESO II	4.3	PANTHER (ZPS-PR1)	3.7
CATALINA (PST-GH-94)	4.3	PRECISION	3.7
CITATION III (PST-2DGR)	4.3	QUICKSTART	3.7
CUTTER	4.3	SECRETARIAT (REBD)	3.7
EXCEL (MB 1-5)	4.3	SPELL BOUND (WVPB-93-KFK)	3.7
IMAGINE	4.3	SR 4200	3.7
LAREDO	4.3	STALLION SUPREME (PSI-E-1)	3.7
LINE DRIVE (MB 47)	4.3	TOP GUN (J-1703)	3.7
LRF-94-C8	4.3	TOP HAT	3.7
MAJESTY (MB 43)	4.3	WIZARD (MB 41)	3.7
MANHATTAN 3	4.3	WX3-91	3.7
PENNANT II (MB 42)	4.3	WX3-93	3.7
RADIANT (MB 44)	4.3	APR 066	3.3
REPELL III (LRF-94-C7)	4.3	APR 131	3.3
STARDANCE (PST-2FE)	4.3	ASSURE	3.3
VIVID	4.3	BUCCANEER II (WVPB 92-4)	3.3
ACCENT	4.0	EXPRESS	3.3
ADVANTAGE	4.0	HEAD START (PICK PR 84-91)	3.3
CAS-IP23	4.0	PALMER III (LRF-94-MPRH)	3.3
DANCER	4.0	PS-D-9	3.3
CIS-MBH (ISI-MHB)	4.0	PST-2CB	3.3
DLP 1305	4.0	R2 (ISI-R2)	3.3
LEGACY II (LESCO-TWF)	4.0	SATURN	3.3
MARDIGRAS (ZPS-2NV)	4.0	WILLIAMSBURG	3.3
NAVAJO	4.0	ACADEMY (PC-93-1)	3.0
NIGHT HAWK	4.0	DSV NA 9402	3.0
NINE-O-ONE	4.0	EDGE	3.0
PASSPORT (PST-2FF)	4.0	KOOS 93-6	3.0
PEGASUS	4.0	OMNI	3.0
PREMIER II (BAR USA 94-II)	4.0	PROTOCOL (KOOS 93-3)	3.0
PRIZM	4.0	SR 4010 (SRX 4010)	3.0
RIVIERA II	4.0	SR 4400 (SRX 4400)	3.0
SATURN II (ZPS-2ST)	4.0	STALLION SELECT	3.0
SUNSHINE (PICK LP 102-92)	4.0	WVPB-PR-C-2	3.0
WIND DANCE (MB 46)	4.0	LINN	2.7
WIND STAR (PST-28M)	4.0	PENNFINE	2.3
ACHIEVER	3.7		
ASP400 (APR 106)	3.7	LSD VALUE	1.1
BLACKHAWK (TMI-EXFLP94)	3.7	C.V. (%)	17.2
BLAZER III (PICK 928)	3.7		

- 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/ FALL COLOR (NOVEMBER) RATED IN 1995 ONLY.

TABLE 30. WINTER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ 3/

NAME	WA3	NAME	WA3
BRIGHTSTAR II (PST-2M3)	5.3	PASSPORT (PST-2FF)	3.7
PALMER III (LRF-94-MPRH)	5.3	PRELUDE III (LRF-94-B6)	3.7
CALYPSO II	5.0	PS-D-9	3.7
EXCEL (MB 1-5)	5.0	PST-2CB	3.7
OMEGA3 (ZPS-2DR-94)	5.0	SPELL BOUND (WVPB-93-KFK)	3.7
MAJESTY (MB 43)	4.7	SR 4010 (SRX 4010)	3.7
NOBILITY	4.7	TOP HAT	3.7
PREMIER II (BAR USA 94-II)	4.7	WIZARD (MB 41)	3.7
ASSURE	4.3	ACCENT	3.3
CIS-MBH (ISI-MHB)	4.3	ACHIEVER	3.3
LINE DRIVE (MB 47)	4.3	ASCEND (MB 45)	3.3
MARDIGRAS (ZPS-2NV)	4.3	ASP400 (APR 106)	3.3
NINE-O-ONE	4.3	BRIGHTSTAR	3.3
PEGASUS	4.3	CAS-LP23	3.3
PRIZM	4.3	CATALINA (PST-GH-94)	3.3
SECRETARIAT (RPBD)	4.3	EDGE	3.3
SR 4200	4.3	ELF	3.3
ADVANTAGE	4.0	HEAD START (PICK PR 84-91)	3.3
BLACKHAWK (TMI-EXFLP94)	4.0	KOOS 93-6	3.3
BUCCANEER II (WVPB 92-4)	4.0	MVF-4-1	3.3
CITATION III (PST-2DGR)	4.0	NAVAJO	3.3
CUTTER	4.0	OMNI	3.3
DIVINE	4.0	QUICKSTART	3.3
DSV NA 9401	4.0	REPELL III (LRF-94-C7)	3.3
EXPRESS	4.0	SATURN	3.3
IMAGINE	4.0	STALLION SUPREME (PSI-E-1)	3.3
LAREDO	4.0	VIVID	3.3
LEGACY II (LESCO-TWF)	4.0	WIND DANCE (MB 46)	3.3
MONTREY (J-1706)	4.0	APR 066	3.0
MORNING STAR	4.0	APR 131	3.0
PENNANT II (MB 42)	4.0	CADDIESHACK (MED 5071)	3.0
PRECISION	4.0	CHAPARRAL (PST-2DIM)	3.0
R2 (ISI-R2)	4.0	DLP 1305	3.0
RADIANT (MB 44)	4.0	DSV NA 9402	3.0
RIVIERA II	4.0	SR 4400 (SRX 4400)	3.0
ROADRUNNER (PST-2ET)	4.0	WILLIAMSBURG	3.0
SATURN II (ZPS-2ST)	4.0	WX3-91	3.0
SUNSHINE (PICK LP 102-92)	4.0	PENNFINE	2.7
WIND STAR (PST-28M)	4.0	SONATA (PST-2R3)	2.7
WVPB-PR-C-2	4.0	STALLION SELECT	2.7
ACADEMY (PC-93-1)	3.7	STARDANCE (PST-2FE)	2.7
APR 124	3.7	TOP GUN (J-1703)	2.7
BIAZER III (PICK 928)	3.7	WX3-93	2.7
DANCER	3.7	PROTOCOL (KOOS 93-3)	2.3
ESQUIRE	3.7	BAR ER 5813	2.0
FIGARO	3.7	LINN	2.0
LRF-94-C8	3.7		
MANHATTAN 3	3.7	LSD VALUE	1.0
NIGHT HAWK	3.7	C.V. (%)	17.3
PANTHER (ZPS-PR1)	3.7		

- 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 DENSITY RATED IN 1995 ONLY.

TABLE 31.

DENSITY (MAY) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/ 2/
 IN THE LOW MOWN STRIPS 3/
 1995-98 DATA
 DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 4/

NAME	AR1	NAME	AR1	NAME	AR1
PRELUDE III (LRF-94-B6)	8.0	SR 4200	6.7	DLP 1305	6.0
WIND DANCE (MB 46)	8.0	WVPB-PR-C-2	6.7	EDGE	6.0
ASCEND (MB 45)	7.7	ACCENT	6.3	ESQUIRE	6.0
IMAGINE	7.7	ADVANTAGE	6.3	MANHATTAN 3	6.0
BRIGHTSTAR II (PST-2M3)	7.3	APR 124	6.3	MARDIGRAS (ZPS-2NV)	6.0
CIS-MBH (ISI-MHB)	7.3	BUCCANEER II (WVPB 92-4)	6.3	MVF-4-1	6.0
MAJESTY (MB 43)	7.3	CALYPSO II	6.3	NAVAJO	6.0
PENNANT II (MB 42)	7.3	CATALINA (PST-GH-94)	6.3	ROADRUNNER (PST-2ET)	6.0
WIZARD (MB 41)	7.3	CITATION III (PST-2DGR)	6.3	SATURN	6.0
DIVINE	7.0	ELF	6.3	TOP GUN (J-1703)	6.0
EXCEL (MB 1-5)	7.0	EXPRESS	6.3	VIVID	6.0
HEAD START (PICK PR 84-91)	7.0	LEGACY II (LESCO-TWF)	6.3	WILLIAMSBURG	6.0
LRF-94-C8	7.0	NIGHT HAWK	6.3	ASSURE	5.7
PANTHER (ZPS-PR1)	7.0	NOBILITY	6.3	KOOS 93-6	5.7
REPELL III (LRF-94-C7)	7.0	OMEGA3 (ZPS-2DR-94)	6.3	NINE-O-ONE	5.7
SUNSHINE (PICK LP 102-92)	7.0	OMNI	6.3	QUICKSTART	5.7
TOP HAT	7.0	PEGASUS	6.3	SR 4400 (SRX 4400)	5.7
WX3-93	7.0	PRECISION	6.3	STALLION SELECT	5.7
BLAZER III (PICK 928)	6.7	R2 (ISI-R2)	6.3	STALLION SUPREME (PSI-E-1)	5.7
CADDIESHACK (MED 5071)	6.7	RIVIERA II	6.3	ASP400 (APR 106)	5.3
CAS-LP23	6.7	SECRETARIAT (RPBD)	6.3	BRIGHTSTAR	5.3
DANCER	6.7	SONATA (PST-2R3)	6.3	DSV NA 9402	5.3
LAREDO	6.7	SR 4010 (SRX 4010)	6.3	FIGARO	5.3
LINE DRIVE (MB 47)	6.7	STARDANCE (PST-2FE)	6.3	PROTOCOL (KOOS 93-3)	5.3
MONTEREY (J-1706)	6.7	WIND STAR (PST-28M)	6.3	PST-2CB	5.3
MORNING STAR	6.7	WX3-91	6.3	SPELL BOUND (WVPB-93-KFK)	5.3
PALMER III (LRF-94-MPRH)	6.7	ACADEMY (PC-93-1)	6.0	ACHIEVER	5.0
PASSPORT (PST-2FF)	6.7	APR 066	6.0	PENNFINE	5.0
PREMIER II (BAR USA 94-II)	6.7	APR 131	6.0	DSV NA 9401	4.7
PRIZM	6.7	BAR ER 5813	6.0	LINN	3.7
PS-D-9	6.7	BLACKHAWK (TMI-EXFLP94)	6.0		
RADIANT (MB 44)	6.7	CHAPARRAL (PST-2DLM)	6.0	LSD VALUE	1.2
SATURN II (ZPS-2ST)	6.7	CUTTER	6.0	C.V. (%)	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.

3/ LOW MOWN STRIPS AT THE END OF PLOTS, SPIKING WITH MATAWAY, OVERSEEDING WITH CRABGRASS IN LATE MARCH, 2 CM MOWING HEIGHT, CONTINUING WEEKLY LOW MOWING.

4/ DENSITY (MAY) RATED IN 1995 ONLY.

TABLE 32.

PERCENT CRABGRASS (JULY) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/ 2/
 IN THE LOW MOWN STRIPS 3/ 4/
 1995-98 DATA

NAME	AR1	NAME	AR1	NAME	AR1
LINN	45.0	WX3-91	28.3	PROTOCOL (KOOS 93-3)	21.7
SATURN II (ZPS-2ST)	36.7	APR 124	26.7	PST-2CB	21.7
SUNSHINE (PICK LP 102-92)	36.7	CITATION III (PST-2DGR)	26.7	R2 (ISI-R2)	21.7
ADVANTAGE	35.0	DIVINE	26.7	SR 4010 (SRX 4010)	21.7
EXCEL (MB 1-5)	35.0	HEAD START (PICK PR 84-91)	26.7	SR 4200	21.7
MORNING STAR	35.0	KOOS 93-6	26.7	WIND STAR (PST-28M)	21.7
NINE-O-ONE	35.0	PEGASUS	26.7	ACHIEVER	20.0
PS-D-9	35.0	PENNANT II (MB 42)	26.7	APR 131	20.0
STALLION SELECT	35.0	TOP GUN (J-1703)	26.7	CALYPSO II	20.0
VIVID	35.0	WIZARD (MB 41)	26.7	CAS-LP23	20.0
EDGE	33.3	ASSURE	25.0	CUTTER	20.0
PENNFINE	33.3	BLAZER III (PICK 928)	25.0	LINE DRIVE (MB 47)	20.0
WX3-93	33.3	BRIGHTSTAR	25.0	PREMIER II (BAR USA 94-II)	20.0
PRELUDE III (LRF-94-B6)	31.7	CATALINA (PST-GH-94)	25.0	RADIANT (MB 44)	20.0
APR 066	30.0	CHAPARRAL (PST-2DLM)	25.0	SPELL BOUND (WVPB-93-KFK)	20.0
BLACKHAWK (TMI-EXFLP94)	30.0	DSV NA 9401	25.0	STALLION SUPREME (PSI-E-1)	20.0
DLP 1305	30.0	FIGARO	25.0	WILLIAMSBURG	20.0
DSV NA 9402	30.0	PALMER III (LRF-94-MRH)	25.0	BRIGHTSTAR II (PST-2M3)	18.3
ESQUIRE	30.0	PASSPORT (PST-2FF)	25.0	BUCCANEER II (WVPB 92-4)	18.3
LEGACY II (LESCO-TWF)	30.0	QUICKSTART	25.0	DANCER	18.3
NAVAJO	30.0	ASCEND (MB 45)	23.3	PRIZM	18.3
NIGHT HAWK	30.0	ASP400 (APR 106)	23.3	RIVIERA II	18.3
PANTHER (ZPS-PR1)	30.0	BAR ER 5813	23.3	SECRETARIAT (RFB)	18.3
STARDANCE (PST-2FE)	30.0	CIS-MBH (ISI-MHB)	23.3	SONATA (PST-2R3)	18.3
WVPB-PR-C-2	30.0	ELF	23.3	ACCENT	16.7
IMAGINE	28.3	LRF-94-C8	23.3	OMNI	16.7
MANHATTAN 3	28.3	MAJESTY (MB 43)	23.3	CADDIESHACK (MED 5071)	15.0
MARDIGRAS (ZPS-2NV)	28.3	OMEGA3 (ZPS-2DR-94)	23.3	LAREDO	15.0
NOBILITY	28.3	PRECISION	23.3	MONTEREY (J-1706)	15.0
ROADRUNNER (PST-2ET)	28.3	REPELL III (LRF-94-C7)	23.3	MVF-4-1	15.0
SATURN	28.3	TOP HAT	23.3		
SR 4400 (SRX 4400)	28.3	ACADEMY (PC-93-1)	21.7	LSD VALUE	13.1
WIND DANCE (MB 46)	28.3	EXPRESS	21.7	C.V. (%)	32.0

- 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/ LOW MOWN STRIPS AT THE END OF PLOTS, SPIKING WITH MATAWAY, OVERSEEDING WITH CRABGRASS IN LATE MARCH, 2 CM MOWING HEIGHT, CONTINUING WEEKLY LOW MOWING.
- 4/ PERCENT CRABGRASS (JULY) RATED IN 1995 ONLY.

TABLE 33.

PERCENT GREEN COVER (AUGUST) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/ 2/
IN THE LOW MOWN STRIPS 3/ 4/
1995-98 DATA

NAME	AR1	NAME	AR1	NAME	AR1
BUCCANEER II (WVPB 92-4)	26.7	PRELUDE III (LRF-94-B6)	13.3	PST-2CB	10.0
SUNSHINE (PICK LP 102-92)	26.7	PREMIER II (BAR USA 94-II)	13.3	TOP HAT	10.0
MORNING STAR	25.0	PS-D-9	13.3	VIVID	10.0
EXPRESS	23.3	R2 (ISI-R2)	13.3	ADVANTAGE	8.3
WX3-91	23.3	WIND DANCE (MB 46)	13.3	APR 131	8.3
CUTTIER	21.7	WVPB-PR-C-2	13.3	ASP400 (APR 106)	8.3
EDGE	21.7	ACHIEVER	11.7	ASSURE	8.3
LRF-94-C8	21.7	APR 124	11.7	CAS-LP23	8.3
ACADEMY (PC-93-1)	20.0	BRIGHTSTAR	11.7	DLP 1305	8.3
SONATA (PST-2R3)	20.0	CATALINA (PST-GH-94)	11.7	LINN	8.3
SR 4010 (SRX 4010)	20.0	DANCER	11.7	NIGHT HAWK	8.3
WILLIAMSBURG	20.0	DSV NA 9402	11.7	PEGASUS	8.3
MARDIGRAS (ZPS-2NV)	18.3	ELF	11.7	STARDANCE (PST-2FE)	8.3
PASSPORT (PST-2FF)	18.3	KOOS 93-6	11.7	WIND STAR (PST-28M)	8.3
ASCEND (MB 45)	16.7	LEGACY II (LESCO-TWF)	11.7	WX3-93	8.3
CIS-MBH (ISI-MHB)	16.7	MANHATTAN 3	11.7	APR 066	6.7
LINE DRIVE (MB 47)	16.7	NINE-O-ONE	11.7	BAR ER 5813	6.7
ROADRUNNER (PST-2ET)	16.7	NOBILITY	11.7	BRIGHTSTAR II (PST-2M3)	6.7
SATURN	16.7	PALMER III (LRF-94-MPRH)	11.7	CALYPSO II	6.7
STALLION SELECT	16.7	PENNANT II (MB 42)	11.7	ESQUIRE	6.7
BLAZER III (PICK 928)	15.0	PROTOCOL (KOOS 93-3)	11.7	MAJESTY (MB 43)	6.7
DIVINE	15.0	QUICKSTART	11.7	MONTEREY (J-1706)	6.7
HEAD START (PICK PR 84-91)	15.0	RADIANT (MB 44)	11.7	MVF-4-1	6.7
REPELL III (LRF-94-C7)	15.0	SATURN II (ZPS-2ST)	11.7	OMEGA3 (ZPS-2DR-94)	6.7
RIVIERA II	15.0	SR 4400 (SRX 4400)	11.7	OMNI	6.7
SECRETARIAT (RPBD)	15.0	TOP GUN (J-1703)	11.7	PRIZM	6.7
SPELL BOUND (WVPB-93-KFK)	15.0	ACCENT	10.0	WIZARD (MB 41)	6.7
SR 4200	15.0	BLACKHAWK (TMI-EXFLP94)	10.0	CHAPARRAL (PST-2DLM)	5.0
STALLION SUPREME (PSI-E-1)	15.0	CADDIESHACK (MED 5071)	10.0	CITATION III (PST-2DGR)	5.0
IMAGINE	13.3	DSV NA 9401	10.0	EXCEL (MB 1-5)	5.0
LAREDO	13.3	FIGARO	10.0		
NAVAJO	13.3	PANTHER (ZPS-PR1)	10.0	LSD VALUE	14.4
PENNFINE	13.3	PRECISION	10.0	C.V. (%)	71.2

- 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/ LOW MOWN STRIPS AT THE END OF PLOTS, SPIKING WITH MATAWAY, OVERSEEDING WITH CRABGRASS IN LATE MARCH, 2 CM MOWING HEIGHT, CONTINUING WEEKLY LOW MOWING.
- 4/ PERCENT GREEN COVER (AUGUST) RATED IN 1995 ONLY.

TABLE 34. LEAF RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 1995-98 DATA
 LEAF RUST RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	AR1	NAME	AR1
DLP 1305	8.3	DANCER	6.7
NINE-O-ONE	8.3	DIVINE	6.7
OMEGA3 (ZPS-2DR-94)	8.3	MVF-4-1	6.7
BRIGHTSTAR II (PST-2M3)	8.0	PRIZM	6.7
CUTTER	8.0	PS-D-9	6.7
LINN	8.0	RADIANT (MB 44)	6.7
PALMER III (LRF-94-MPRH)	8.0	SR 4010 (SRX 4010)	6.7
REPELL III (LRF-94-C7)	8.0	WIND STAR (PST-28M)	6.7
SONATA (PST-2R3)	8.0	CAS-1P23	6.3
STARDANCE (PST-2FE)	8.0	CIS-MBH (ISI-MHB)	6.3
CALYPSO II	7.7	ESQUIRE	6.3
DSV NA 9402	7.7	KOOS 93-6	6.3
FIGARO	7.7	PASSPORT (PST-2FF)	6.3
IMAGINE	7.7	PRELUDE III (LRF-94-B6)	6.3
MANHATTAN 3	7.7	RIVIERA II	6.3
MARDIGRAS (ZPS-2NV)	7.7	SECRETARIAT (RPBD)	6.3
WIND DANCE (MB 46)	7.7	SPELL BOUND (WVPB-93-KFK)	6.3
APR 066	7.3	STALLION SUPREME (PSI-E-1)	6.3
BRIGHTSTAR	7.3	WIZARD (MB 41)	6.3
CATALINA (PST-GH-94)	7.3	WX3-91	6.3
ELF	7.3	ACADEMY (PC-93-1)	6.0
EXCEL (MB 1-5)	7.3	ASP400 (APR 106)	6.0
LAREDO	7.3	ASSURE	6.0
LEGACY II (LESCO-TWF)	7.3	MAJESTY (MB 43)	6.0
LINE DRIVE (MB 47)	7.3	NIGHT HAWK	6.0
MONTEREY (J-1706)	7.3	QUICKSTART	6.0
NAVAJO	7.3	SATURN II (ZPS-2ST)	6.0
PRECISION	7.3	STALLION SELECT	6.0
PST-2CB	7.3	TOP HAT	6.0
ROADRUNNER (PST-2ET)	7.3	EDGE	5.7
WVPB-PR-C-2	7.3	EXPRESS	5.7
WX3-93	7.3	MORNING STAR	5.7
ADVANTAGE	7.0	OMNI	5.7
BLACKHAWK (TMI-EXFLP94)	7.0	SUNSHINE (PICK LP 102-92)	5.7
BLAZER III (PICK 928)	7.0	TOP GUN (J-1703)	5.7
CITATION III (PST-2DGR)	7.0	WILLIAMSBURG	5.7
DSV NA 9401	7.0	ACHIEVER	5.3
HEAD START (PICK PR 84-91)	7.0	R2 (ISI-R2)	5.3
LRF-94-C8	7.0	ACCENT	5.0
PANTHER (ZPS-PR1)	7.0	BUCCANEER II (WVPE 92-4)	5.0
PEGASUS	7.0	NOBILITY	5.0
PENNANT II (MB 42)	7.0	PENNFINE	5.0
PREMIER II (BAR USA 94-II)	7.0	PROTOCOL (KOOS 93-3)	5.0
SR 4200	7.0	SATURN	5.0
APR 124	6.7	VIVID	5.0
APR 131	6.7	SR 4400 (SRX 4400)	4.0
ASCEND (MB 45)	6.7		
BAR ER 5813	6.7	LSD VALUE	1.9
CADDIESHACK (MED 5071)	6.7	C.V. (%)	17.9
CHAPARRAL (PST-2DLM)	6.7		

- 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/ LEAF RUST RATED IN 1996 ONLY.

TABLE 35. PERCENT GREY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA 2/ 3/

NAME	MD1	NAME	MD1
DLP 1305	83.3	SATURN II (ZPS-2ST)	13.7
PENNFINE	81.7	SUNSHINE (PICK LP 102-92)	13.7
FIGARO	80.0	ASSURE	13.3
DSV NA 9401	43.3	STALLION SELECT	13.3
OMNI	41.7	WVPB-PR-C-2	13.3
LINN	40.0	BLACKHAWK (TMI-EXFLP94)	13.0
DSV NA 9402	38.3	STALLION SUPREME (PSI-E-1)	13.0
WIND STAR (PST-28M)	35.0	CATALINA (PST-GH-94)	12.7
SATURN	33.3	IMAGINE	12.3
APR 066	32.7	MONTEREY (J-1706)	12.0
CITATION III (PST-2DGR)	30.0	PREMIER II (BAR USA 94-II)	11.7
LRF-94-C8	25.7	MVF-4-1	11.3
NAVAJO	25.0	CIS-MBH (ISI-MHB)	11.0
NIGHT HAWK	25.0	SR 4010 (SRX 4010)	11.0
SR 4200	25.0	MANHATTAN 3	10.7
ADVANTAGE	24.3	RIVIERA II	10.7
ELF	22.7	PS-D-9	10.3
NINE-O-ONE	22.3	PST-2CB	10.3
STARDANCE (PST-2FE)	22.0	ROADRUNNER (PST-2ET)	10.0
PEGASUS	21.3	CHAPARRAL (PST-2DLM)	9.7
MORNING STAR	21.0	PRIZM	9.7
DANCER	20.7	SPELL BOUND (WVPB-93-KFK)	9.7
ACHIEVER	20.0	PASSPORT (PST-2FF)	9.3
LEGACY II (LESCO-TWF)	19.3	EXCEL (MB 1-5)	9.0
ASP400 (APR 106)	19.0	R2 (ISI-R2)	9.0
HEAD START (PICK PR 84-91)	18.7	APR 124	8.7
REPELL III (LRF-94-C7)	18.7	BUCCANEER II (WVPB 92-4)	8.3
BAR ER 5813	17.7	SONATA (PST-2R3)	8.3
OMEGA3 (ZPS-2DR-94)	17.7	ACADEMY (PC-93-1)	7.7
BRIGHTSTAR	17.0	KOOS 93-6	7.7
CAS-LP23	16.7	PRECISION	7.7
VIVID	16.7	BRIGHTSTAR II (PST-2M3)	7.3
ESQUIRE	16.3	RADIANT (MB 44)	7.3
WX3-93	16.3	SECRETARIAT (RPBD)	7.3
PRELUDE III (LRF-94-B6)	16.0	WIZARD (MB 41)	7.3
BLAZER III (PICK 928)	15.7	CALYPSO II	7.0
CUTTER	15.7	ACCENT	6.7
EDGE	15.7	CADDIESHACK (MED 5071)	6.3
EXPRESS	15.7	LAREDO	6.3
MARDIGRAS (ZPS-2NV)	15.7	PALMER III (IRF-94-MPRH)	6.0
WX3-91	15.7	LINE DRIVE (MB 47)	5.3
TOP HAT	15.3	MAJESTY (MB 43)	4.7
WIND DANCE (MB 46)	15.3	QUICKSTART	4.7
SR 4400 (SRX 4400)	15.0	PENNANT II (MB 42)	4.3
WILLIAMSBURG	15.0	ASCEND (MB 45)	3.3
TOP GUN (J-1703)	14.7	DIVINE	2.3
PANTHER (ZPS-PR1)	14.3	APR 131	1.7
PROTOCOL (KOOS 93-3)	14.3		
NOBILITY	14.0	LSD VALUE	15.5
		C.V. (%)	56.0

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/ PERCENT GREY LEAF SPOT RATED IN 1997 ONLY.

TABLE 36. PERCENT PATCH DISEASE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA 2/ 3/

NAME	KY1	NAME	KY1
LINN	85.0	CALYPSO II	10.0
DLP 1305	78.3	PANTHER (ZPS-PR1)	10.0
PENNFINE	63.3	R2 (ISI-R2)	10.0
FIGARO	53.3	PROTOCOL (KOOS 93-3)	9.7
DSV NA 9402	50.7	OMNI	9.3
DSV NA 9401	50.0	PREMIER II (BAR USA 94-II)	9.3
WVPB-PR-C-2	46.7	SATURN II (ZPS-2ST)	9.3
SATURN	37.0	WILLIAMSBURG	9.3
STARDANCE (PST-2FE)	36.7	WIND DANCE (MB 46)	9.3
DANCER	34.7	QUICKSTART	9.0
ELF	33.3	WIZARD (MB 41)	9.0
WX3-91	30.0	ACCENT	8.7
NIGHT HAWK	29.3	ASSURE	8.7
WX3-93	29.3	SPELL BOUND (WVPB-93-KFK)	8.7
PEGASUS	29.0	CADDIESHACK (MED 5071)	8.3
EXCEL (MB 1-5)	28.7	ESQUIRE	8.3
WIND STAR (PST-28M)	27.3	MANHATTAN 3	8.3
ROADRUNNER (PST-2ET)	27.0	ASCEND (MB 45)	8.0
BRIGHTSTAR	25.7	ACHIEVER	7.7
ADVANTAGE	24.0	LINE DRIVE (MB 47)	7.7
BAR ER 5813	23.0	PRECISION	7.7
BIAZER III (PICK 928)	21.7	SUNSHINE (PICK LP 102-92)	7.7
BRIGHTSTAR II (PST-2M3)	21.7	APR 131	7.3
CITATION III (PST-2DGR)	21.3	CUTTER	7.3
VIVID	19.3	REPELL III (LRF-94-C7)	7.3
LEGACY II (LESCO-TWF)	19.0	SR 4010 (SRX 4010)	7.3
NAVAJO	19.0	EXPRESS	6.7
NINE-O-ONE	18.3	PRIZM	6.7
CATALINA (PST-GH-94)	18.0	PST-2CB	6.7
MVF-4-1	18.0	SECRETARIAT (RPBD)	6.7
RADIANT (MB 44)	15.7	TOP HAT	6.3
STALLION SELECT	15.7	BLACKHAWK (TMI-EXFLP94)	5.7
CHAPARRAL (PST-2DLM)	15.3	EDGE	5.3
APR 066	15.0	LAREDO	5.3
ACADEMY (PC-93-1)	14.3	APR 124	5.0
CAS-LP23	14.3	LRF-94-C8	4.7
MONTEREY (J-1706)	13.7	NOBILITY	4.3
TOP GUN (J-1703)	13.3	RIVIERA II	4.3
CIS-MBH (ISI-MHB)	13.0	SR 4400 (SRX 4400)	4.0
MARDIGRAS (ZPS-2NV)	13.0	PASSPORT (PST-2FF)	3.7
PALMER III (LRF-94-MPRH)	12.3	PRELUDE III (LRF-94-B6)	3.3
SONATA (PST-2R3)	12.3	BUCCANEER II (WVPB 92-4)	3.0
SR 4200	12.0	DIVINE	3.0
KOOS 93-6	11.7	MORNING STAR	2.7
ASP400 (APR 106)	11.3	PENNANT II (MB 42)	2.0
IMAGINE	11.3	PS-D-9	1.7
OMEGA3 (ZPS-2DR-94)	11.3		
HEAD START (PICK PR 84-91)	11.0	LSD VALUE	16.8
MAJESTY (MB 43)	10.7	C.V. (%)	63.0
STALLION SUPREME (PSI-E-1)	10.3		

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ PERCENT PATCH DISEASE RATED IN 1998 ONLY.

TABLE 37. PLANT HEIGHT MEASUREMENTS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
PLANT HEIGHT MEASURED IN INCHES 2/ 3/

NAME	WA3	NAME	WA3
FIGARO	3.3	LEGACY II (LESCO-TWF)	2.0
ASSURE	3.0	LINE DRIVE (MB 47)	2.0
DSV NA 9401	3.0	MAJESTY (MB 43)	2.0
DSV NA 9402	3.0	MARDIGRAS (ZPS-2NV)	2.0
OMEGA3 (ZPS-2DR-94)	3.0	NAVAJO	2.0
PEGASUS	3.0	OMNI	2.0
SATURN	3.0	PALMER III (LRF-94-MPRH)	2.0
SR 4200	3.0	PANTHER (ZPS-PR1)	2.0
ADVANTAGE	2.7	PASSPORT (PST-2FF)	2.0
CIS-MBH (ISI-MHB)	2.7	PENNANT II (MB 42)	2.0
EXPRESS	2.7	PENNFINE	2.0
LINN	2.7	PREMIER II (BAR USA 94-II)	2.0
PRECISION	2.7	PROTOCOL (KOOS 93-3)	2.0
PST-2CB	2.7	PS-D-9	2.0
QUICKSTART	2.7	R2 (ISI-R2)	2.0
SECRETARIAT (RPBD)	2.7	RADIANT (MB 44)	2.0
TOP HAT	2.7	ROADRUNNER (PST-2ET)	2.0
WVFB-PR-C-2	2.7	SATURN II (ZPS-2ST)	2.0
ACCENT	2.3	SONATA (PST-2R3)	2.0
BLAZER III (PICK 928)	2.3	SR 4400 (SRX 4400)	2.0
BRIGHTSTAR	2.3	STALLION SELECT	2.0
BUCCANEER II (WVPB 92-4)	2.3	SUNSHINE (PICK LP 102-92)	2.0
CALYPSO II	2.3	VIVID	2.0
CUTTER	2.3	WILLIAMSBURG	2.0
EDGE	2.3	WIND DANCE (MB 46)	2.0
LAREDO	2.3	WIND STAR (PST-28M)	2.0
MORNING STAR	2.3	WX3-91	2.0
NINE-O-ONE	2.3	ACADEMY (PC-93-1)	1.7
NOBILITY	2.3	ASP400 (APR 106)	1.7
RIVIERA II	2.3	CHAPARRAL (PST-2DIM)	1.7
SPELL BOUND (WVPB-93-KFK)	2.3	DIVINE	1.7
SR 4010 (SRX 4010)	2.3	DLP 1305	1.7
STALLION SUPREME (PSI-E-1)	2.3	LRF-94-C8	1.7
ACHIEVER	2.0	MANHATTAN 3	1.7
APR 066	2.0	MVF-4-1	1.7
APR 124	2.0	NIGHT HAWK	1.7
APR 131	2.0	PRELUDE III (LRF-94-B6)	1.7
ASCEND (MB 45)	2.0	PRIZM	1.7
BAR ER 5813	2.0	REPELL III (LRF-94-C7)	1.7
BLACKHAWK (TMI-EXFLP94)	2.0	STARDANCE (PST-2FE)	1.7
BRIGHTSTAR II (PST-2M3)	2.0	TOP GUN (J-1703)	1.7
CADDIESHACK (MED 5071)	2.0	WIZARD (MB 41)	1.7
CAS-LP23	2.0	WX3-93	1.7
CATALINA (PST-GH-94)	2.0	HEAD START (PICK ER 84-91)	1.3
CITATION III (PST-2DGR)	2.0	MONTEREY (J-1706)	1.3
DANCER	2.0	IMAGINE	1.0
ELF	2.0		
ESQUIRE	2.0	LSD VALUE	0.7
EXCEL (MB 1-5)	2.0	C.V. (%)	19.6
KOOS 93-6	2.0		

- 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/ PLANT HEIGHT MEASURED IN 1994 ONLY.

TABLE 38. MOWING QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA
MOWING QUALITY RATINGS 1-9; 9=BEST 2/ 3/

NAME	WA3	NAME	WA3
PALMER III (LRF-94-MPRH)	7.3	LEGACY II (LESCO-TWF)	6.2
CALYPSO II	7.2	PRECISION	6.2
DIVINE	7.0	SATURN	6.2
PREMIER II (BAR USA 94-II)	7.0	ACADEMY (PC-93-1)	6.0
MAJESTY (MB 43)	6.8	ACCENT	6.0
PENNANT II (MB 42)	6.8	ADVANTAGE	6.0
WIND STAR (PST-28M)	6.8	CADDIESHACK (MED 5071)	6.0
EXCEL (MB 1-5)	6.7	CATALINA (PST-GH-94)	6.0
LINE DRIVE (MB 47)	6.7	NIGHT HAWK	6.0
MONTEREY (J-1706)	6.7	R2 (ISI-R2)	6.0
MVF-4-1	6.7	STARDANCE (PST-2FE)	6.0
PANTHER (ZPS-PR1)	6.7	VIVID	6.0
SECRETARIAT (RPBD)	6.7	WVPB-PR-C-2	6.0
CIS-MBH (ISI-MHB)	6.5	ASP400 (APR 106)	5.8
HEAD START (PICK PR 84-91)	6.5	BUCCANEER II (WVPB 92-4)	5.8
LAREDO	6.5	EDGE	5.8
PRIZM	6.5	ESQUIRE	5.8
RADIANT (MB 44)	6.5	NOBILITY	5.8
ROADRUNNER (PST-2ET)	6.5	PRELUDE III (LRF-94-B6)	5.8
SATURN II (ZPS-2ST)	6.5	QUICKSTART	5.8
SR 4200	6.5	RIVIERA II	5.8
TOP HAT	6.5	WILLIAMSBURG	5.8
WIZARD (MB 41)	6.5	WX3-93	5.8
APR 131	6.3	ACHIEVER	5.7
ASCEND (MB 45)	6.3	SR 4010 (SRX 4010)	5.7
ASSURE	6.3	TOP GUN (J-1703)	5.7
BLACKHAWK (TMI-EXFLP94)	6.3	CAS-LP23	5.5
BLAZER III (PICK 928)	6.3	MORNING STAR	5.5
BRIGHTSTAR	6.3	PROTOCOL (KOOS 93-3)	5.5
CHAPARRAL (PST-2DLM)	6.3	PST-2CB	5.5
CITATION III (PST-2DGR)	6.3	STALLION SELECT	5.5
DLP 1305	6.3	STALLION SUPREME (PSI-E-1)	5.5
ELF	6.3	DANCER	5.3
LRF-94-C8	6.3	APR 066	5.2
MANHATTAN 3	6.3	BAR ER 5813	5.2
MARDIGRAS (ZPS-2NV)	6.3	KOOS 93-6	5.2
NINE-O-ONE	6.3	NAVAJO	5.2
OMEGA3 (ZPS-2DR-94)	6.3	SPELL BOUND (WVFB-93-KFK)	5.2
OMNI	6.3	WX3-91	5.2
PASSPORT (PST-2FF)	6.3	PEGASUS	5.0
REPELL III (LRF-94-C7)	6.3	PS-D-9	4.8
SONATA (PST-2R3)	6.3	PENNFINE	4.5
SR 4400 (SRX 4400)	6.3	DSV NA 9402	4.0
SUNSHINE (PICK LP 102-92)	6.3	FIGARO	3.8
WIND DANCE (MB 46)	6.3	DSV NA 9401	3.7
APR 124	6.2	LINN	2.8
BRIGHTSTAR II (PST-2M3)	6.2		
CUTTER	6.2	LSD VALUE	0.8
EXPRESS	6.2	C.V. (%)	11.9
IMAGINE	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/ MOWING QUALITY RATED IN 1995-96.

TABLE 39. PERCENT BROWN PATCH/DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1995-98 DATA 2/ 3/

NAME	KY1	NAME	KY1
LINN	53.3	R2 (ISI-R2)	9.0
CHAPARRAL (EST-2DLM)	21.3	SATURN II (ZPS-2ST)	9.0
DLP 1305	20.0	RADIANT (MB 44)	8.7
BRIGHTSTAR	17.7	STALLION SUPREME (PSI-E-1)	8.7
FIGARO	17.7	CAS-LP23	8.3
WX3-93	16.7	LRF-94-C8	8.3
WX3-91	14.7	SR 4010 (SRX 4010)	8.3
BAR ER 5813	13.3	ACADEMY (PC-93-1)	8.0
IMAGINE	13.3	APR 131	8.0
MANHATTAN 3	13.3	DSV NA 9402	8.0
PEGASUS	13.3	HEAD START (PICK PR 84-91)	8.0
CATALINA (PST-GH-94)	13.0	OMNI	8.0
NAVAJO	13.0	SPELL BOUND (WVPB-93-KFK)	8.0
VIVID	13.0	APR 066	7.7
CADDIESHACK (MED 5071)	12.7	PRECISION	7.7
LEGACY II (LESCO-TWF)	12.7	NOBILITY	7.3
PALMER III (LRF-94-MPRH)	12.7	PENNFINE	7.3
STALLION SELECT	12.7	SONATA (PST-2R3)	7.3
WVPB-PR-C-2	12.7	SR 4400 (SRX 4400)	7.3
BLAZER III (PICK 928)	12.3	DIVINE	7.0
DSV NA 9401	12.3	NINE-O-ONE	7.0
CIS-MBH (ISI-MHB)	12.0	WIND STAR (PST-28M)	6.7
SATURN	12.0	EXPRESS	6.3
ASP400 (APR 106)	11.7	PS-D-9	6.3
CITATION III (PST-2DGR)	11.7	MARDIGRAS (ZPS-2NV)	6.0
ELF	11.7	PRIZM	6.0
EXCEL (MB 1-5)	11.7	RIVIERA II	6.0
MVF-4-1	11.7	PST-2CB	5.7
DANCER	11.3	TOP HAT	5.7
STARDANCE (PST-2FE)	11.3	WILLIAMSBURG	5.3
ESQUIRE	11.0	PASSPORT (EST-2FF)	5.0
LAREDO	11.0	PROTOCOL (KOOS 93-3)	5.0
SUNSHINE (PICK LP 102-92)	11.0	BUCCANEER II (WVPB 92-4)	4.7
APR 124	10.7	PENNANT II (MB 42)	4.7
BRIGHTSTAR II (PST-2M3)	10.7	BLACKHAWK (TMI-EXFLP94)	4.3
KOOS 93-6	10.7	EDGE	4.0
MAJESTY (MB 43)	10.7	MONTEREY (J-1706)	4.0
NIGHT HAWK	10.3	MORNING STAR	3.7
ADVANTAGE	10.0	WIND DANCE (MB 46)	3.7
PREMIER II (BAR USA 94-II)	10.0	ASSURE	3.3
OMEGA3 (ZPS-2DR-94)	9.7	PANTHER (ZES-PR1)	3.3
QUICKSTART	9.3	TOP GUN (J-1703)	3.3
ROADRUNNER (PST-2ET)	9.3	WIZARD (MB 41)	3.3
SECRETARIAT (RPBD)	9.3	REPELL III (LRF-94-C7)	2.3
SR 4200	9.3	ACHIEVER	1.3
ACCENT	9.0	PRELUDE III (LRF-94-B6)	1.3
ASCEND (MB 45)	9.0		
CALYPSO II	9.0	LSD VALUE	8.3
CUTTER	9.0	C.V. (%)	53.4
LINE DRIVE (MB 47)	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.
3/ PERCENT BROWN PATCH / DOLLAR SPOT RATED IN 1998 ONLY.

TABLE 40.

BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS AT FAYETTEVILLE, AR 1/

1995-98 DATA

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

NAME	JULY	SEPTEMBER	MEAN	NAME	JULY	SEPTEMBER	MEAN
PENNANT II (MB 42)	8.7	6.0	7.3	SATURN	7.7	4.3	6.0
PST-2CB	8.7	5.3	7.0	SECRETARIAT (RPBD)	8.3	3.7	6.0
R2 (ISI-F2)	8.7	5.3	7.0	SUNSHINE (PICK LP 102-92)	8.3	3.7	6.0
WILLIAMSBURG	8.3	5.7	7.0	VIVID	7.3	4.7	6.0
OMNI	8.7	5.0	6.8	WX3-93	8.0	4.0	6.0
PALMER III (LRF-94-MPRH)	9.0	4.7	6.8	ACCENT	7.0	4.7	5.8
PENNFINE	8.7	5.0	6.8	APR 124	7.7	4.0	5.8
SR 4010 (SRX 4010)	8.7	5.0	6.8	BLAZER III (PICK 928)	8.0	3.7	5.8
APR 131	8.3	5.0	6.7	BRIGHTSTAR II (PST-2M3)	7.0	4.7	5.8
ASSURE	9.0	4.3	6.7	CITATION III (PST-2DGR)	7.0	4.7	5.8
BLACKHAWK (TMI-EXFLP94)	8.7	4.7	6.7	ESQUIRE	6.3	5.3	5.8
LINN	8.3	5.0	6.7	FIGARO	7.7	4.0	5.8
MONTEREY (J-1706)	8.3	5.0	6.7	APR 066	7.0	4.3	5.7
PEGASUS	8.7	4.7	6.7	CADDIESHACK (MED 5071)	6.3	5.0	5.7
RIVIERA II	8.7	4.7	6.7	MARDIGRAS (ZPS-2NV)	7.3	4.0	5.7
BUCCANEER II (WVPB 92-4)	8.0	5.0	6.5	MORNING STAR	7.7	3.7	5.7
DLP 1305	7.7	5.3	6.5	PASSPORT (PST-2FF)	7.3	4.0	5.7
LAREDO	7.7	5.3	6.5	RADIANT (MB 44)	6.3	5.0	5.7
WIZARD (MB 41)	8.3	4.7	6.5	TOP GUN (J-1703)	7.3	4.0	5.7
EXPRESS	8.7	4.0	6.3	WIND DANCE (MB 46)	7.3	4.0	5.7
MAJESTY (MB 43)	7.3	5.3	6.3	ACADEMY (PC-93-1)	7.7	3.3	5.5
NINE-O-ONE	8.3	4.3	6.3	DANCER	6.3	4.7	5.5
PRECISION	7.7	5.0	6.3	DSV NA 9402	6.3	4.7	5.5
PREMIER II (BAR USA 94-II)	8.3	4.3	6.3	EDGE	8.0	3.0	5.5
STARDANCE (PST-2FE)	8.0	4.7	6.3	QUICKSTART	7.0	4.0	5.5
WX3-91	8.0	4.7	6.3	SATURN II (ZPS-2ST)	8.0	3.0	5.5
CAS-LP23	8.0	4.3	6.2	WIND STAR (PST-28M)	6.7	4.3	5.5
CHAPARRAL (PST-2DLM)	8.3	4.0	6.2	WVPB-PR-C-2	8.0	3.0	5.5
CIS-MBH (ISI-MHB)	8.7	3.7	6.2	ADVANTAGE	7.3	3.3	5.3
EXCEL (MB 1-5)	7.0	5.3	6.2	IMAGINE	6.0	4.7	5.3
LEGACY II (LESCO-TWF)	8.3	4.0	6.2	REPELL III (LRF-94-C7)	7.7	3.0	5.3
LRF-94-C8	8.3	4.0	6.2	ROADRUNNER (PST-2ET)	6.7	4.0	5.3
MVF-4-1	7.7	4.7	6.2	SR 4400 (SRX 4400)	7.3	3.3	5.3
NOBILITY	8.0	4.3	6.2	STALLION SELECT	7.3	3.3	5.3
PROTOCOL (KOOS 93-3)	7.7	4.7	6.2	BAR ER 5813	7.0	3.3	5.2
SR 4200	8.0	4.3	6.2	LINE DRIVE (MB 47)	6.0	4.3	5.2
STALLION SUPREME (PSI-E-1)	7.7	4.7	6.2	MANHATTAN 3	6.0	4.0	5.0
TOP HAT	8.3	4.0	6.2	OMEGA3 (ZPS-2DR-94)	6.7	3.3	5.0
ACHIEVER	7.0	5.0	6.0	SPELL BOUND (WVPB-93-KFK)	6.3	3.7	5.0
ASCEND (MB 45)	8.3	3.7	6.0	PRELUDE III (LRF-94-B6)	7.0	2.7	4.8
ASP400 (APR 106)	7.3	4.7	6.0	BRIGHTSTAR	7.0	2.3	4.7
CATALINA (PST-GH-94)	8.3	3.7	6.0	PANTHER (ZPS-PR1)	6.0	3.3	4.7
DIVINE	7.3	4.7	6.0	CALYPSO II	5.3	3.7	4.5
DSV NA 9401	7.0	5.0	6.0	CUTTER	5.0	4.0	4.5
ELF	7.7	4.3	6.0	NIGHT HAWK	5.7	2.7	4.2
HEAD START (PICK PR 84-91)	8.0	4.0	6.0	SONATA (PST-2R3)	5.7	2.7	4.2
KOOS 93-6	8.0	4.0	6.0				
NAVAJO	7.0	5.0	6.0	LSR VALUE	5.5	4.8	4.7
PRIZM	7.7	4.3	6.0	C.V. (%)	19.6	29.5	19.1
PS-D-9	8.3	3.7	6.0				

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/ BROWN PATCH RATED IN 1998 ONLY.

TABLE 41.

BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 AT ORONO, ME
 1995-98 DATA
 BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	JULY 95	SEPT.95	JULY 96	AUG.96	SEP.96	MEAN
REPELL III (LRF-94-C7)	8.3	8.3	7.3	7.7	8.3	8.1
IMAGINE	5.7	8.3	8.3	7.3	8.3	7.5
LRF-94-C8	7.3	8.3	6.7	6.7	8.0	7.5
PALMER III (LRF-94-MPRH)	6.7	8.0	8.3	6.7	8.0	7.5
TOP HAT	6.7	7.7	7.7	7.7	7.7	7.4
PRELUDE III (LRF-94-B6)	7.3	8.0	6.3	7.7	7.0	7.3
CHAPARRAL (EST-2DLM)	6.7	8.0	7.0	7.7	6.3	7.2
CIS-MBH (ISI-MHB)	7.0	7.3	7.7	7.0	6.3	7.1
ESQUIRE	7.0	6.7	7.7	6.7	8.0	7.1
LAREDO	6.7	8.0	6.7	5.7	7.0	6.9
MARDIGRAS (ZPS-2NV)	5.3	7.7	7.0	7.3	7.3	6.9
OMNI	6.7	7.7	8.0	5.0	7.0	6.9
PANTHER (ZPS-PR1)	6.0	8.7	7.3	5.3	7.0	6.9
WIND DANCE (MB 46)	4.7	9.0	6.7	8.0	6.0	6.9
ACHIEVER	6.7	7.7	7.3	5.7	6.0	6.8
ASCEND (MB 45)	5.7	8.3	5.7	7.7	6.3	6.8
BRIGHTSTAR II (PST-2M3)	7.3	7.0	6.0	6.3	7.0	6.8
CALYPSO II	5.7	7.7	7.7	7.3	6.0	6.8
CITATION III (PST-2DGR)	7.7	7.7	5.3	6.0	6.3	6.8
LINE DRIVE (MB 47)	5.0	8.0	7.3	7.7	5.7	6.7
MAJESTY (MB 43)	5.0	8.3	7.0	5.7	7.3	6.7
SUNSHINE (PICK LP 102-92)	5.3	7.3	7.7	6.3	7.0	6.7
RADIANT (MB 44)	5.3	7.3	6.7	7.3	6.7	6.6
CATALINA (PST-GH-94)	7.3	4.3	7.3	6.7	7.3	6.5
DIVINE	7.0	6.0	7.3	7.0	5.3	6.5
HEAD START (PICK PR 84-91)	7.3	6.3	5.7	6.3	6.3	6.5
MANHATTAN 3	6.0	8.0	5.3	4.7	8.0	6.5
ASSURE	5.3	8.0	6.3	6.7	5.7	6.4
EXCEL (MB 1-5)	5.3	8.3	7.0	6.0	4.7	6.4
PREMIER II (BAR USA 94-II)	4.0	6.3	7.7	6.7	8.3	6.4
ROADRUNNER (PST-2ET)	5.7	7.0	5.7	6.7	7.0	6.4
STARDANCE (EST-2FE)	6.7	7.3	5.7	6.7	5.3	6.4
ACCENT	5.3	7.0	7.0	5.0	7.0	6.3
SECRETARIAT (RPBD)	5.3	4.7	8.0	8.0	6.7	6.3
TOP GUN (J-1703)	5.3	6.0	7.0	6.3	7.7	6.3
ELF	5.0	7.0	7.0	6.7	5.3	6.2
OMEGA3 (ZPS-2DR-94)	5.7	7.0	5.3	6.3	6.3	6.2
STALLION SUPREME (PSI-E-1)	6.3	6.3	6.0	6.0	6.0	6.2
ACADEMY (PC-93-1)	4.3	6.7	6.7	6.3	7.3	6.1
BRIGHTSTAR	5.0	6.7	7.3	6.3	5.7	6.1
CADDIESHACK (MED 5071)	6.0	4.7	7.3	7.0	6.3	6.1
NINE-O-ONE	7.3	4.3	6.0	6.3	7.0	6.1
WX3-91	6.0	6.3	6.7	5.3	6.0	6.1
MVF-4-1	5.0	6.0	6.3	6.0	7.3	6.0
WIZARD (MB 41)	6.7	5.3	6.0	6.3	5.7	6.0
BUCCANEER II (WVPB 92-4)	6.7	5.7	6.0	4.7	6.0	5.9
MORNING STAR	5.7	5.7	7.0	5.3	6.3	5.9
PROTOCOL (KOOS 93-3)	6.0	7.7	5.3	4.7	5.0	5.9
SATURN II (ZPS-2ST)	6.3	7.0	5.0	5.3	5.3	5.9
WIND STAR (EST-28M)	6.0	4.7	6.3	6.7	6.3	5.9
WX3-93	5.7	5.3	6.3	6.7	5.7	5.9
PENNANT II (MB 42)	5.7	4.7	6.7	6.3	6.3	5.8
PRIZM	5.3	6.7	4.7	5.3	7.0	5.8

TABLE 41. BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) AT ORONO, ME
 1995-98 DATA
 BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	JULY 95	SEPT.95	JULY 96	AUG.96	SEP.96	MEAN
RIVIERA II	4.3	6.3	7.0	6.0	6.0	5.8
VIVID	5.7	6.3	6.7	5.7	4.3	5.8
BLAZER III (PICK 928)	4.3	6.0	6.7	6.0	6.0	5.7
EDGE	4.7	7.0	5.7	5.0	6.0	5.7
MONTEREY (J-1706)	4.0	5.3	7.7	6.0	6.3	5.7
CUTTER	3.3	5.3	7.3	5.7	7.7	5.6
KOOS 93-6	5.3	4.3	7.7	4.7	6.7	5.6
NIGHT HAWK	5.7	6.0	6.7	5.0	4.3	5.6
QUICKSTART	4.0	6.0	6.3	5.7	6.3	5.6
SONATA (PST-2R3)	5.3	7.3	5.3	4.3	5.0	5.6
ADVANTAGE	5.0	5.3	5.3	6.7	5.7	5.5
APR 131	3.7	7.7	5.7	5.0	5.3	5.5
CAS-LP23	5.3	5.7	6.0	5.0	5.7	5.5
DANCER	4.3	7.3	6.0	5.0	4.7	5.5
R2 (ISI-R2)	4.7	6.3	6.3	4.7	5.3	5.5
SR 4400 (SRX 4400)	5.0	6.0	5.7	4.7	6.3	5.5
BLACKHAWK (TMI-EXFLP94)	4.0	6.3	6.7	5.0	5.3	5.4
EXPRESS	5.3	5.0	5.7	5.0	6.0	5.4
LEGACY II (LESCO-TWF)	4.3	6.0	5.3	6.3	5.0	5.4
PRECISION	5.3	7.0	5.3	4.0	4.3	5.4
PS-D-9	4.0	5.3	7.0	6.0	5.7	5.4
PST-2CB	5.0	6.3	5.0	5.3	5.0	5.4
SR 4010 (SRX 4010)	4.0	6.3	6.3	6.0	4.7	5.4
SR 4200	4.0	5.3	6.7	5.0	7.0	5.4
ASP400 (APR 106)	4.3	5.7	6.7	5.3	5.0	5.3
BAR ER 5813	5.3	6.3	4.7	4.3	5.3	5.3
PASSPORT (EST-2FF)	4.0	4.7	7.0	6.3	5.3	5.3
PEGASUS	4.3	7.3	4.7	5.0	4.3	5.3
NAVAJO	5.7	5.0	5.3	4.3	5.3	5.2
WVPB-PR-C-2	5.7	5.0	5.7	4.7	5.0	5.2
SPELL BOUND (WVPB-93-KFK)	3.7	6.3	5.7	5.0	4.7	5.1
STALLION SELECT	4.7	6.0	6.3	4.0	3.7	5.0
APR 124	3.3	5.7	6.0	5.0	5.0	4.9
NOBILITY	4.3	6.0	4.7	3.7	5.7	4.9
SATURN	4.3	5.7	6.0	3.7	5.0	4.9
APR 066	4.7	4.7	6.0	3.7	5.3	4.8
WILLIAMSBURG	3.3	5.3	6.3	4.0	5.3	4.8
DLP 1305	3.7	4.0	5.0	4.3	5.3	4.4
PENNFINE	5.0	4.3	4.7	3.3	4.7	4.4
DSV NA 9402	3.3	4.7	4.3	2.3	2.7	3.6
DSV NA 9401	3.3	4.3	3.0	2.0	3.0	3.3
FIGARO	1.7	3.3	3.7	2.3	4.7	3.0
LINN	2.3	2.7	2.0	1.7	2.0	2.2
LSD VALUE	3.9	2.7	2.4	2.0	4.6	1.3
C.V. (%)	31.4	22.8	19.9	21.1	29.4	19.0

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 42. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 AT ORONO, ME
 1995-98 DATA
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	JUNE	JULY	NOVEMBER	MEAN
IMAGINE	6.3	8.3	9.0	7.9
WIND DANCE (MB 46)	7.3	6.7	8.7	7.6
PALMER III (LRF-94-MPRH)	6.3	7.3	8.7	7.4
CATALINA (PST-GH-94)	8.0	6.0	7.7	7.2
CHAPARRAL (PST-2DLM)	7.7	5.3	8.7	7.2
OMNI	8.0	7.0	6.7	7.2
REPELL III (LRF-94-C7)	6.0	7.0	8.7	7.2
BRIGHTSTAR II (PST-2M3)	7.0	6.0	8.3	7.1
MAJESTY (MB 43)	5.7	7.3	8.0	7.0
WX3-91	6.0	7.3	7.7	7.0
ASCEND (MB 45)	5.3	6.7	8.7	6.9
CADDIESHACK (MED 5071)	6.3	7.0	7.3	6.9
DIVINE	6.0	7.0	7.7	6.9
EXCEL (MB 1-5)	5.3	7.0	8.3	6.9
PANTHER (ZPS-PR1)	6.0	7.0	7.7	6.9
PENNANT II (MB 42)	6.0	6.0	8.7	6.9
VIVID	6.3	6.3	8.0	6.9
ESQUIRE	4.7	7.7	8.0	6.8
LAREDO	7.3	6.0	7.0	6.8
LRF-94-C8	6.0	5.3	9.0	6.8
PREMIER II (BAR USA 94-II)	5.3	7.3	7.7	6.8
RADIANT (MB 44)	6.3	5.7	8.3	6.8
ROADRUNNER (PST-2ET)	6.0	6.3	8.0	6.8
SECRETARIAT (RPBD)	5.0	7.0	8.3	6.8
WIZARD (MB 41)	7.3	6.0	7.0	6.8
CALYPSO II	4.7	6.7	8.7	6.7
LINE DRIVE (MB 47)	5.3	6.3	8.3	6.7
MANHATTAN 3	7.3	5.7	7.0	6.7
APR 124	6.7	5.7	7.3	6.6
PROTOCOL (KOOS 93-3)	6.0	7.0	6.7	6.6
QUICKSTART	5.7	6.3	7.7	6.6
ACHIEVER	5.3	7.0	7.0	6.4
BLAZER III (PICK 928)	6.3	5.3	7.7	6.4
CUTTER	5.7	7.0	6.7	6.4
CIS-MBH (ISI-MHB)	5.0	6.7	7.7	6.4
KOOS 93-6	6.3	7.7	5.3	6.4
PRELUDE III (LRF-94-B6)	4.7	6.0	8.7	6.4
STALLION SUPREME (PSI-E-1)	5.3	6.7	7.3	6.4
TOP HAT	5.3	5.7	8.3	6.4
HEAD START (PICK PR 84-91)	5.3	5.7	8.0	6.3
MARDIGRAS (ZPS-2NV)	4.7	6.3	8.0	6.3
MONTEREY (J-1706)	5.0	6.7	7.3	6.3
SUNSHINE (PICK LP 102-92)	5.7	6.7	6.7	6.3
ACCENT	5.0	6.0	7.7	6.2
PEGASUS	5.7	6.0	7.0	6.2
EDGE	5.3	5.7	7.3	6.1
SR 4400 (SRX 4400)	5.3	6.0	7.0	6.1
TOP GUN (J-1703)	5.0	6.3	7.0	6.1
ADVANTAGE	4.0	5.7	8.3	6.0
RIVIERA II	4.0	6.7	7.3	6.0
WIND STAR (PST-28M)	4.3	6.3	7.3	6.0
ASSURE	4.7	5.7	7.3	5.9
BUCCANEER II (WVPB 92-4)	4.3	7.0	6.3	5.9

TABLE 42. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 AT ORONO, ME
 1995-98 DATA
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE

NAME	JUNE	JULY	NOVEMBER	MEAN
LEGACY II (LESCO-TWF)	5.7	4.7	7.3	5.9
MORNING STAR	5.0	6.0	6.7	5.9
OMEGA3 (ZPS-2DR-94)	4.3	5.7	7.7	5.9
STARDANCE (PST-2FE)	4.7	5.7	7.3	5.9
ACADEMY (PC-93-1)	5.0	6.7	5.7	5.8
BRIGHTSTAR	4.0	6.3	7.0	5.8
ELF	3.0	6.3	8.0	5.8
PS-D-9	4.0	7.3	5.7	5.7
BLACKHAWK (TMI-EXFLP94)	4.3	6.3	6.0	5.6
MVF-4-1	5.0	5.7	6.0	5.6
NINE-O-ONE	5.7	5.0	6.0	5.6
SATURN II (ZPS-2ST)	3.7	5.3	7.7	5.6
SR 4200	5.0	5.7	6.0	5.6
APR 066	5.7	5.0	5.7	5.4
ASP400 (APR 106)	4.7	5.0	6.7	5.4
PRECISION	4.7	5.0	6.7	5.4
SPELL BOUND (WVPB-93-KFK)	5.0	5.3	6.0	5.4
WX3-93	4.3	5.7	6.3	5.4
BAR ER 5813	4.3	5.7	6.0	5.3
EXPRESS	4.0	5.3	6.7	5.3
APR 131	5.0	5.3	5.3	5.2
NAVAJO	4.3	5.3	6.0	5.2
PRIZM	2.7	5.7	7.3	5.2
CITATION III (PST-2DGR)	4.0	4.3	7.0	5.1
NIGHT HAWK	3.3	6.0	6.0	5.1
PST-2CB	3.0	6.3	6.0	5.1
SR 4010 (SRX 4010)	3.0	6.0	6.3	5.1
CAS-LP23	1.7	6.3	7.0	5.0
NOBILITY	3.3	5.3	6.3	5.0
SONATA (PST-2R3)	4.0	5.0	6.0	5.0
WVPB-PR-C-2	4.0	5.3	5.7	5.0
R2 (ISI-R2)	3.7	5.3	5.7	4.9
PASSPORT (PST-2FF)	2.7	5.3	6.3	4.8
WILLIAMSBURG	3.0	5.3	6.0	4.8
STALLION SELECT	2.7	5.7	5.7	4.7
DANCER	3.3	4.3	5.3	4.3
DLP 1305	4.3	4.7	4.0	4.3
SATURN	2.0	5.3	5.7	4.3
LINN	4.0	4.7	3.0	3.9
DSV NA 9401	1.3	4.7	4.0	3.3
PENNFINE	1.0	5.0	3.7	3.2
DSV NA 9402	1.0	4.3	4.0	3.1
FIGARO	1.3	3.7	4.0	3.0
LSD VALUE	4.3	2.5	1.8	1.6
C.V. (%)	40.0	18.8	16.0	15.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ LEAF SPOT RATED IN 1996 ONLY.

TABLE 43. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 AT PUYALLUP, WA
 1995-98 DATA
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	JANUARY	FEBRUARY	MARCH	APRIL	MEAN
BRIGHTSTAR II (PST-2M3)	5.3	4.3	5.3	7.3	5.6
REPELL III (LRF-94-C7)	4.7	4.0	4.7	6.7	5.0
ASP400 (APR 106)	4.7	4.0	5.0	6.0	4.9
ELF	4.7	4.0	4.7	6.3	4.9
IMAGINE	5.0	3.7	4.0	7.0	4.9
EXCEL (MB 1-5)	4.0	4.0	4.7	6.3	4.8
NINE-O-ONE	4.7	4.0	3.7	6.7	4.8
PALMER III (LRF-94-MERH)	5.7	4.3	4.0	5.3	4.8
PANTHER (ZPS-PR1)	4.3	4.3	4.3	6.0	4.8
ASCEND (MB 45)	4.7	4.3	4.0	5.7	4.7
LAREDO	4.3	4.0	4.0	6.3	4.7
MONTEREY (J-1706)	4.7	3.7	4.3	6.0	4.7
MVF-4-1	4.7	4.0	4.7	5.3	4.7
PREMIER II (BAR USA 94-II)	4.7	4.3	4.3	5.3	4.7
SR 4200	4.0	4.0	4.7	6.0	4.7
CALYPSO II	4.3	4.3	3.7	5.7	4.5
EXPRESS	4.3	4.7	4.3	4.7	4.5
LRF-94-C8	4.0	3.7	4.3	6.0	4.5
PRIZM	4.0	3.7	4.0	6.3	4.5
SATURN	4.7	4.0	4.0	5.3	4.5
WIND DANCE (MB 46)	4.0	3.0	4.3	6.7	4.5
CIS-MBH (ISI-MHB)	4.0	3.7	4.3	5.7	4.4
EDGE	4.3	3.7	4.7	5.0	4.4
PENNANT II (MB 42)	4.3	3.3	4.0	6.0	4.4
ACADEMY (PC-93-1)	4.0	4.0	4.0	5.0	4.3
ACCENT	3.7	3.7	4.3	5.7	4.3
APR 124	4.3	3.3	3.7	6.0	4.3
BRIGHTSTAR	3.7	3.7	4.3	5.3	4.3
DSV NA 9402	3.7	4.0	4.3	5.0	4.3
KOOS 93-6	4.3	3.7	4.0	5.3	4.3
LINE DRIVE (MB 47)	4.7	3.0	3.7	5.7	4.3
PROTOCOL (KOOS 93-3)	4.0	3.7	4.0	5.3	4.3
TOP HAT	4.7	3.7	3.7	5.3	4.3
WIND STAR (PST-28M)	4.0	4.0	4.0	5.0	4.3
WIZARD (MB 41)	3.3	3.3	4.7	5.7	4.3
ACHIEVER	3.3	4.0	4.3	5.0	4.2
CUTTER	4.0	3.3	4.0	5.3	4.2
MORNING STAR	4.3	3.7	3.7	5.0	4.2
PRECISION	4.0	3.7	3.7	5.3	4.2
SECRETARIAT (RPBD)	3.7	3.3	3.7	6.0	4.2
SR 4400 (SRX 4400)	4.0	3.3	4.0	5.3	4.2
ASSURE	3.3	4.0	4.0	5.0	4.1
BLAZER III (PICK 928)	4.0	3.7	4.0	4.7	4.1
HEAD START (PICK PR 84-91)	3.3	3.0	4.3	5.7	4.1
MARDIGRAS (ZPS-2NV)	4.0	3.3	3.7	5.3	4.1
NIGHT HAWK	4.3	3.3	3.7	5.0	4.1
SATURN II (ZPS-2ST)	3.7	4.0	4.0	4.7	4.1
SPELL BOUND (WVPB-93-KFK)	3.7	3.0	4.3	5.3	4.1
BLACKHAWK (TMI-EXFLP94)	3.7	3.7	3.7	5.0	4.0
BUCCANEER II (WVPB 92-4)	4.0	3.3	4.0	4.7	4.0
ESQUIRE	4.0	3.0	3.3	5.7	4.0
MAJESTY (MB 43)	3.7	3.3	3.7	5.3	4.0

TABLE 43. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 AT PUYALLUP, WA
 1995-98 DATA
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE

NAME	JANUARY	FEBRUARY	MARCH	APRIL	MEAN
OMEGA3 (ZPS-2DR-94)	4.3	3.3	3.7	4.7	4.0
PASSPORT (PST-2FF)	3.7	3.0	3.7	5.7	4.0
PS-D-9	3.3	4.0	3.7	5.0	4.0
SUNSHINE (PICK LP 102-92)	3.3	3.3	3.7	5.7	4.0
WILLIAMSBURG	4.3	3.3	3.7	4.7	4.0
WVPB-PR-C-2	4.0	3.0	4.0	5.0	4.0
WX3-91	3.0	4.0	4.0	5.0	4.0
CADDIESHACK (MED 5071)	3.3	3.0	3.7	5.7	3.9
CATALINA (PST-GH-94)	4.0	3.0	3.3	5.3	3.9
FIGARO	4.0	3.7	3.7	4.3	3.9
PEGASUS	4.0	3.3	3.7	4.7	3.9
STALLION SELECT	3.7	3.0	3.7	5.3	3.9
STALLION SUPREME (PSI-E-1)	4.0	3.0	3.3	5.3	3.9
TOP GUN (J-1703)	3.7	3.3	3.7	5.0	3.9
CAS-LP23	3.7	2.7	3.7	5.3	3.8
CITATION III (PST-2DGR)	3.7	3.7	3.3	4.7	3.8
DLP 1305	2.7	3.0	4.3	5.0	3.8
OMNI	3.0	3.0	3.7	5.3	3.8
PRELUDE III (LRF-94-B6)	3.3	3.3	3.7	5.0	3.8
RADIANT (MB 44)	3.3	3.0	3.7	5.3	3.8
RIVIERA II	3.7	3.0	3.3	5.3	3.8
CHAPARRAL (PST-2DLM)	3.0	2.7	3.7	5.3	3.7
NOBILITY	3.7	3.7	3.0	4.3	3.7
PST-2CB	4.0	3.0	3.7	4.0	3.7
SR 4010 (SRX 4010)	3.3	2.7	3.3	5.3	3.7
VIVID	3.3	3.0	3.3	5.0	3.7
WX3-93	3.3	2.7	3.3	5.3	3.7
DANCER	3.0	2.7	3.3	5.3	3.6
DSV NA 9401	3.7	3.3	3.7	3.7	3.6
APR 131	3.0	2.7	3.3	5.0	3.5
MANHATTAN 3	3.3	3.0	3.0	4.7	3.5
NAVAJO	3.0	2.7	3.3	5.0	3.5
BAR ER 5813	2.7	3.0	3.3	4.7	3.4
R2 (ISI-R2)	3.0	2.7	3.7	4.3	3.4
ADVANTAGE	3.3	2.0	3.0	5.0	3.3
APR 066	3.0	2.3	2.7	5.0	3.3
LEGACY II (LESCO-TWF)	2.7	2.3	3.0	5.0	3.3
PENNFINE	2.3	3.3	3.7	3.7	3.3
SONATA (PST-2R3)	3.3	2.7	2.7	4.0	3.2
DIVINE	3.0	2.3	2.3	4.7	3.1
ROADRUNNER (PST-2ET)	3.3	2.3	2.3	4.3	3.1
QUICKSTART	2.7	2.3	2.7	3.7	2.8
STARDANCE (PST-2FE)	2.3	1.7	2.0	4.3	2.6
LINN	2.3	2.3	2.3	3.0	2.5
LSD VALUE	1.0	1.0	1.0	1.2	0.6
C.V. (%)	15.8	16.7	15.2	13.5	9.9

- 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/ LEAF SPOT RATED IN 1997 ONLY.

TABLE 44.

PERCENT RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 AT LEXINGTON, KY 2/ 3/
 1995-98 DATA

NAME	JUNE 2	JUNE 17	MEAN	NAME	JUNE 2	JUNE 17	MEAN
BAR ER 5813	13.0	18.7	15.8	SONATA (PST-2R3)	6.3	5.3	5.8
DIVINE	13.0	16.7	14.8	ASP400 (APR 106)	3.3	8.0	5.7
DSV NA 9402	7.7	16.7	12.2	BRIGHTSTAR	4.3	7.0	5.7
CHAPARRAL (PST-2DLM)	12.0	11.3	11.7	SUNSHINE (PICK LP 102-92)	3.7	7.7	5.7
EXCEL (MB 1-5)	9.3	13.7	11.5	ACADEMY (PC-93-1)	3.3	7.7	5.5
ROADRUNNER (PST-2ET)	11.0	11.7	11.3	PRIZM	3.7	7.3	5.5
LEGACY II (LESCO-TWF)	11.0	11.3	11.2	BLACKHAWK (TMI-EXFLP94)	4.7	6.0	5.3
NINE-O-ONE	10.3	11.3	10.8	BLAZER III (PICK 928)	2.7	8.0	5.3
LINE DRIVE (MB 47)	9.3	12.0	10.7	WIND STAR (PST-28M)	2.7	8.0	5.3
MAJESTY (MB 43)	8.7	12.3	10.5	STALLION SELECT	3.3	7.0	5.2
AER 066	7.7	13.0	10.3	EXPRESS	4.0	6.0	5.0
ADVANTAGE	9.0	10.3	9.7	CADDIESHACK (MED 5071)	3.3	6.3	4.8
ASCEND (MB 45)	9.3	10.0	9.7	ESQUIRE	2.3	7.3	4.8
CATALINA (PST-GH-94)	7.7	11.3	9.5	MONTEREY (J-1706)	2.7	6.7	4.7
DANCER	6.0	12.3	9.2	SECRETARIAT (RPBD)	2.0	7.3	4.7
DSV NA 9401	7.7	10.7	9.2	ACHIEVER	1.3	7.3	4.3
SPELL BOUND (WVPB-93-KEK)	5.7	11.3	8.5	CIS-MBH (ISI-MHB)	3.7	5.0	4.3
STALLION SUPREME (PSI-E-1)	5.7	11.3	8.5	CUTTER	2.7	5.7	4.2
FIGARO	5.3	11.3	8.3	DLP 1305	4.7	3.7	4.2
PS-D-9	6.3	9.7	8.0	PREMIER II (BAR USA 94-II)	2.3	6.0	4.2
SATURN II (ZPS-2ST)	3.7	12.0	7.8	WX3-93	3.0	5.3	4.2
WX3-91	6.0	9.7	7.8	MVF-4-1	3.0	5.0	4.0
OMNI	6.3	9.0	7.7	WILLIAMSBURG	2.0	6.0	4.0
PENNANT II (MB 42)	5.7	9.3	7.5	KOOS 93-6	2.7	5.0	3.8
PRELUDE III (LRF-94-B6)	7.3	7.7	7.5	NOBILITY	2.3	5.3	3.8
CAS-LP23	6.0	8.7	7.3	APR 131	3.0	4.3	3.7
RADIANT (MB 44)	4.7	10.0	7.3	BUCCANEER II (WVPB 92-4)	3.3	4.0	3.7
VIVID	5.7	9.0	7.3	MANHATTAN 3	2.3	5.0	3.7
WIND DANCE (MB 46)	4.0	10.7	7.3	QUICKSTART	2.3	5.0	3.7
NAVAJO	6.3	8.0	7.2	HEAD START (PICK PR 84-91)	3.0	3.7	3.3
BRIGHTSTAR II (PST-2M3)	6.0	8.0	7.0	RIVIERA II	2.3	4.3	3.3
CALYPSO II	5.3	8.7	7.0	PROTOCOL (KOOS 93-3)	2.0	4.3	3.2
IMAGINE	4.7	9.3	7.0	MORNING STAR	2.3	3.7	3.0
PEGASUS	4.0	10.0	7.0	PASSPORT (PST-2FF)	2.0	4.0	3.0
STARDANCE (PST-2FE)	6.0	7.7	6.8	TOP HAT	2.0	4.0	3.0
WVPB-PR-C-2	5.7	8.0	6.8	ASSURE	2.3	3.3	2.8
PANTHER (ZPS-PR1)	3.7	9.7	6.7	EDGE	1.7	4.0	2.8
SR 4200	4.7	8.7	6.7	REPELL III (LRF-94-C7)	1.7	4.0	2.8
SR 4400 (SRX 4400)	5.3	8.0	6.7	LAREDO	1.0	4.3	2.7
SATURN	5.3	7.7	6.5	LRF-94-C8	1.7	3.7	2.7
AER 124	5.3	7.3	6.3	PST-2CB	1.3	4.0	2.7
PALMER III (LRF-94-MPRH)	2.3	10.3	6.3	PRECISION	1.3	3.7	2.5
SR 4010 (SRX 4010)	3.7	9.0	6.3	R2 (ISI-R2)	1.0	3.3	2.2
CITATION III (PST-2DGR)	2.7	9.7	6.2	TOP GUN (J-1703)	1.7	2.7	2.2
NIGHT HAWK	4.0	8.3	6.2	PENNFINE	1.3	2.3	1.8
MARDIGRAS (ZPS-2NV)	6.7	5.3	6.0	LINN	0.0	0.7	0.3
WIZARD (MB 41)	4.7	7.3	6.0				
ACCENT	3.7	8.0	5.8	LSD VALUE	6.1	9.4	6.5
ELF	2.7	9.0	5.8	C.V. (%)	69.4	55.0	54.0
OMEGA3 (ZPS-2DR-94)	4.0	7.7	5.8				

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 RED THREAD RATED IN 1997 ONLY.

TABLE 45. PERCENT DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
 AT LEXINGTON, KY 2/
 1995-98 DATA

NAME	1995	JULY 96	AUG.7,96	AUG.21,96	AUG.97	MEAN
EXCEL (MB 1-5)	12.3	9.3	14.3	19.3	17.7	14.8
CAS-LP23	14.3	10.0	11.7	24.3	8.3	12.7
NAVAJO	13.3	7.0	16.3	24.7	7.3	12.2
DSV NA 9401	17.0	8.3	13.7	20.0	4.0	11.7
BAR ER 5813	14.7	5.3	13.7	17.3	7.3	11.4
FIGARO	16.0	7.3	13.3	22.7	3.7	11.4
RADIANT (MB 44)	10.0	10.0	12.0	21.7	9.7	11.4
DANCER	12.7	4.3	10.0	19.7	8.0	10.7
WX3-93	10.7	4.0	4.3	15.3	13.0	10.5
SATURN	13.7	4.3	7.0	17.3	6.7	10.0
SECRETARIAT (RPBD)	10.0	7.0	10.3	16.3	8.3	9.9
NIGHT HAWK	12.0	6.0	7.7	16.0	7.3	9.7
PEGASUS	15.0	5.0	5.7	15.7	5.3	9.7
BLAZER III (PICK 928)	7.3	4.7	9.3	15.3	11.7	9.6
DSV NA 9402	12.0	6.0	11.0	20.7	4.3	9.6
KOOS 93-6	10.3	8.3	9.0	18.3	6.7	9.6
WIND DANCE (MB 46)	8.0	8.7	9.0	13.0	10.7	9.6
PST-2CB	10.7	2.7	3.0	14.0	10.7	9.3
WIZARD (MB 41)	10.7	4.0	5.3	13.7	9.7	9.3
OMNI	9.7	7.3	10.3	16.0	6.0	9.0
SPELL BOUND (WVPB-93-KFK)	8.3	6.3	12.0	16.0	7.3	9.0
ASCEND (MB 45)	8.0	5.7	9.0	14.3	9.0	8.9
ELF	9.3	6.0	11.0	14.7	6.7	8.9
IMAGINE	9.3	7.3	6.3	18.7	6.7	8.9
PALMER III (LRF-94-MPRH)	9.3	8.3	8.0	15.3	6.3	8.7
ASP400 (APR 106)	10.7	5.7	9.3	17.0	4.3	8.6
BRIGHTSTAR	10.0	3.0	5.7	12.3	7.7	8.2
BUCCANEER II (WVPB 92-4)	8.7	4.0	6.0	15.7	7.3	8.2
PRELUDE III (LRF-94-B6)	5.3	6.3	6.3	12.0	10.7	8.1
RIVIERA II	9.7	4.3	7.3	11.0	7.0	8.1
TOP GUN (J-1703)	7.3	5.3	6.3	11.7	9.3	8.1
WX3-91	9.0	4.7	7.3	12.7	7.0	8.1
APR 131	12.3	5.3	6.3	12.7	3.7	8.0
CITATION III (PST-2DGR)	7.3	6.7	7.7	11.0	8.0	7.9
PRIZM	6.7	3.7	9.3	16.3	7.3	7.9
WVPB-PR-C-2	7.3	3.7	7.3	14.3	6.7	7.5
CIS-MBH (ISI-MHB)	6.3	7.0	7.7	14.3	6.3	7.4
PENNANT II (MB 42)	7.7	2.7	3.7	11.0	8.7	7.4
MVF-4-1	9.3	5.3	9.7	14.3	2.7	7.3
NOBILITY	7.0	4.0	5.3	12.0	7.7	7.3
CALYPSO II	6.0	5.7	7.3	13.7	6.3	7.1
VIVID	8.0	4.3	6.0	12.0	6.0	7.1
APR 066	6.0	6.0	8.0	17.0	4.7	7.0
EDGE	7.7	3.3	3.7	11.3	7.3	7.0
PREMIER II (BAR USA 94-II)	7.7	3.7	6.0	8.7	7.3	7.0
SONATA (PST-2R3)	5.3	2.0	4.7	11.0	9.3	6.9
ADVANTAGE	6.3	7.7	9.3	14.3	3.7	6.8
HEAD START (PICK PR 84-91)	6.7	3.7	3.7	13.0	7.0	6.8
MAJESTY (MB 43)	5.3	3.7	7.0	15.3	6.3	6.8
BRIGHTSTAR II (PST-2M3)	5.7	2.7	3.3	10.3	9.0	6.7
STALLION SELECT	7.7	7.3	8.0	13.3	3.0	6.7

TABLE 45. PERCENT DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
 (CONT'D) AT LEXINGTON, KY
 1995-98 DATA

NAME	1995	JULY 96	AUG.7,96	AUG.21,96	AUG.97	MEAN
STALLION SUPREME (PSI-E-1)	6.7	3.7	8.0	14.3	4.7	6.7
LINE DRIVE (MB 47)	4.3	3.3	7.7	13.3	7.3	6.6
MORNING STAR	7.0	1.0	4.3	12.3	7.0	6.6
SR 4400 (SRX 4400)	8.3	2.3	4.3	13.0	5.0	6.6
ACHIEVER	4.7	5.3	9.0	13.3	5.7	6.5
QUICKSTART	6.7	4.7	5.0	10.0	6.3	6.5
SR 4010 (SRX 4010)	5.7	5.3	6.7	15.3	4.7	6.5
BLACKHAWK (TMI-EXFLP94)	5.7	2.7	4.7	12.7	6.7	6.3
TOP HAT	7.7	1.7	2.3	10.0	6.7	6.3
LAREDO	6.0	3.0	4.3	7.7	7.7	6.2
ACCENT	5.3	2.7	5.3	12.0	6.3	6.1
DLP 1305	2.3	9.3	10.0	14.0	5.0	6.1
OMEGA3 (ZES-2DR-94)	4.7	4.7	12.3	16.0	2.7	6.1
SUNSHINE (PICK LP 102-92)	7.3	2.7	3.0	13.7	4.7	6.1
PROTOCOL (KOOS 93-3)	6.7	4.7	5.3	10.7	4.0	5.9
CATALINA (PST-GH-94)	4.3	4.0	6.0	9.3	6.7	5.8
PRECISION	7.0	2.7	5.3	11.3	4.0	5.8
STARDANCE (PST-2FE)	6.3	4.7	4.3	12.0	4.0	5.8
MONTEREY (J-1706)	4.7	1.3	2.7	9.7	8.0	5.7
REPELL III (LRF-94-C7)	2.3	4.7	6.7	10.3	7.7	5.7
LRF-94-C8	5.0	6.7	6.3	8.7	4.7	5.6
SATURN II (ZPS-2ST)	2.7	4.7	10.3	12.3	5.0	5.6
WILLIAMSBURG	6.0	5.0	8.3	12.3	2.3	5.6
ASSURE	6.0	3.0	4.3	10.3	4.7	5.5
ACADEMY (PC-93-1)	6.3	3.7	6.0	11.0	3.0	5.4
CUTTER	6.0	3.3	4.7	11.0	3.3	5.2
R2 (ISI-R2)	5.0	2.3	4.7	8.0	4.7	4.9
LEGACY II (LESCO-TWF)	4.7	6.3	5.7	8.3	3.0	4.8
PS-D-9	5.0	2.0	3.3	11.0	4.0	4.8
ESQUIRE	4.3	2.0	2.7	8.7	5.3	4.7
PASSPORT (PST-2FF)	3.0	5.3	6.0	10.7	3.7	4.7
SR 4200	5.7	4.0	6.0	13.0	0.7	4.7
MANHATTAN 3	3.0	4.3	9.3	11.7	2.3	4.6
MARDIGRAS (ZPS-2NV)	5.0	4.0	6.3	11.0	1.3	4.5
CADDIESHACK (MED 5071)	1.7	4.0	6.0	9.7	5.0	4.4
NINE-O-ONE	1.7	3.3	6.0	9.3	5.0	4.3
APR 124	6.3	1.7	2.7	11.0	1.0	4.1
DIVINE	2.0	2.0	2.7	9.7	5.3	4.0
EXPRESS	3.7	2.0	4.7	9.3	2.3	3.8
PANTHER (ZPS-PR1)	2.7	1.7	2.0	6.7	4.0	3.4
ROADRUNNER (PST-2ET)	3.0	3.3	5.0	9.7	1.0	3.3
CHAPARRAL (PST-2DLM)	1.3	3.3	7.3	5.0	3.0	3.2
WIND STAR (PST-28M)	3.3	1.3	2.7	9.0	2.0	3.2
PENNFINE	3.0	1.0	1.3	4.0	2.0	2.4
LINN	1.7	0.7	2.3	0.0	0.0	0.9
LSD VALUE	6.1	9.5	7.1	8.8	10.1	3.7
C.V. (%)	48.2	70.6	52.8	35.5	67.0	54.1

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.