

## **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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LOCATIONS SUBMITTING DATA FOR 1997

<u>State</u>	<u>Location</u>	<u>Code</u>
Arkansas	Fayetteville (Full sun)	AR1
Georgia	Griffin	GA1
Iowa	Ames	IA1
Illinois	Urbana	IL1
Illinois	Carbondale	IL2
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
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)	Lofts Seed, Inc.
2	Dancer	International Marketing Service	52	Prelude III (LRF-94-B6)	Lofts Seed, 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	Finelawn Research, 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, Inc.
19	Cutter	Pickseed West, Inc.	69	SR 4200	Seed Research of OR, Inc.
20	Express	Pickseed West, Inc.	70	SR 4400 (SRX 4400)	Seed Research of OR, Inc.
21	Esquire	Willamette Seed Co.	71	Omni	Royal Seeds of Salem, OR
22	Vivid	Willamette Seed Co.	72	Night Hawk	Forbes Seed & Grain, Inc.
23	WX3-91	Willamette Seed Co.	73	Buccaneer II (WVPB 92-4)	TAN-Ag.
24	WX3-93	Willamette Seed Co.	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)	Lofts Seed, 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	Olsen-Fennell Seed Co.
35	Navajo	Turf-Seed, Inc.	85	Pegasus	Olsen-Fennell Seed Co.
36	Saturn II (ZPS-2ST)	Turf-Seed & Zajac Perf. Seeds	86	Blackhawk (TMI-EXFLP94)	Turf Merchants, Inc.
37	Omega 3 (ZPS-2DR-94)	Turf-Seed & Zajac Perf. Seeds	87	Nobility	Ampac Seed Co.
38	Stallion Supreme (PSI-E-1)	Finelawn Research, Inc.	88	Divine	McCarthy/Burlingham Res. Farm
39	Spell Bound (WVPB-93-KFK)	Landmark Seed Co.	89	Excel (MB 1-5)	McCarthy/Burlingham Res. Farm
40	WVPB-PR-C-2	Willamette Valley Plt .Breeders	90	Wizard (MB 41)	McCarthy/Burlingham Res. Farm
41	MVF-4-1	Mid-Valley Farms	91	Pennant II (MB 42)	McCarthy/Burlingham Res. Farm
42	Academy (PC-93-1)	Pratum Co-op	92	Majesty (MB 43)	McCarthy/Burlingham Res. Farm
43	Passport (PST-2FF)	Roberts Seed Co.	93	MB 44	McCarthy/Burlingham Res. Farm
44	Quickstart	Turf-Seed, Inc.	94	MB 45	McCarthy/Burlingham Res. Farm
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	Derby Supreme (ISI-MHB)	International Seeds, Inc.			
48	R2 (ISI-R2)	International Seeds, Inc.			
49	Top Hat	International Seeds, Inc.			
50	LRF-94-C8	Lofts Seed, Inc.			

TABLE A.

1997 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	1.6-2.0	TO PREVENT STRESS
GA1	SANDY CLAY LOAM	5.6-6.0	61-150	151-240	3.1-4.0	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	3.1-4.0	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
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	1.1-2.0	FULL SUN	3.1-3.5	TO PREVENT STRESS
MO1	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	1.1-1.5	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	271-450	241-375	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	271-450	376-500	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
OH1	SILTY CLAY LOAM	6.6-7.0	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	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	2.6-3.0	NO IRRIGATION
RI1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
UB1	SILT LOAM AND SILT	5.6-6.0	271-450	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	-	-	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 1997

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
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
IN1				X	X	X	X	X	X	X	X		X	X	X
KS1							X	X	X						
KY1			X	X	X	X	X	X	X	X			X		X
MD1				X	X	X	X	X	X	X				X	
ME1							X	X	X	X			X		
MI1					X	X	X	X	X	X	X		X	X	X
MO1				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
NJ2				X	X	X	X	X	X	X	X				
OH1					X	X		X	X				X	X	X
OK1				X	X	X	X	X	X	X	X	X	X	X	X
PA1					X	X	X	X	X				X		
QE1					X	X	X	X	X	X	X		X		X
RI1				X	X	X	X	X	X	X	X		X	X	X
UB1				X	X	X	X	X	X	X	X		X		X
UB2				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		

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 1997

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT	PERCENT	PERCENT	DOLLAR SPOT	RED THREAD	BROWN PATCH	FUSARIUM BLIGHT	PERCENT	PERCENT	PERCENT RED THREAD		LEAF SPOT RATINGS					
				COVER SPRING	COVER SUMMER	COVER FALL					DOLLAR SPOT	GREY LEAF SPOT	JUNE 2	JUNE 17	JAN.	FEB.	MAR.	APR.		
AR1		X	X			X				X										
GA1	X		X	X	X	X														
IA1																				
IL1		X																		
IL2																				
IN1								X												
KS1																				
KY1											X		X	X						
MD1												X								
ME1					X															
MI1																				
MO1																				
MO3	X	X	X	X	X	X														
NE1	X	X	X						X											
NJ1							X	X												
NJ2																				
OH1																				
OK1	X	X	X	X	X	X	X													
PA1	X						X	X												
QE1	X	X	X																	
RI1																				
UB1								X												
UB2							X													
VA1									X											
WA1																				
WA3	X	X	X														X	X	X	X
WI1																				







TABLE 2.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH  
 MONTH GROWN AT TWENTY-SEVEN LOCATIONS IN THE U.S. AND CANADA 1/  
 1997 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)	4.8	4.5	5.8	6.3	6.5	6.1	5.9	5.7	6.2	6.3	6.1	5.4	6.2
SECRETARIAT (RPBD)	4.2	3.8	5.8	6.3	6.5	6.3	6.1	5.8	6.1	6.1	6.0	4.9	6.2
BRIGHTSTAR II (PST-2M3)	4.3	4.2	5.8	6.3	6.7	6.3	5.7	5.7	6.2	6.2	6.2	5.3	6.2
CALYPSO II	4.3	3.8	5.3	6.1	6.3	6.3	5.8	5.8	6.3	6.2	6.1	5.4	6.2
MONTEREY (J-1706)	4.8	4.2	5.8	6.1	6.2	6.0	5.9	5.7	6.1	6.0	6.0	4.8	6.1
CADDIESHACK (MED 5071)	4.0	3.5	5.6	6.1	6.2	6.2	5.8	5.7	6.0	6.0	6.2	5.1	6.1
PANTHER (ZPS-PR1)	4.3	4.0	5.6	6.1	6.3	6.1	5.8	5.7	6.1	6.0	6.0	5.2	6.1
ACCENT	4.2	3.8	5.2	5.9	6.2	6.1	6.1	5.7	5.9	6.0	6.0	5.2	6.1
PRELUDE III (LRF-94-B6)	4.0	3.8	5.9	6.2	6.4	5.9	5.6	5.5	5.9	6.2	6.0	5.1	6.0
ISI-MHB	4.5	4.2	5.8	5.9	6.3	6.0	5.9	5.8	5.9	6.0	5.9	5.3	6.0
PREMIER II (BAR USA 94-II)	4.8	4.3	5.6	6.1	6.3	6.1	5.8	5.5	6.0	6.0	6.1	5.3	6.0
PENNANT II (MB 42)	4.5	3.7	5.7	6.4	6.4	6.0	5.6	5.5	6.0	6.2	5.8	4.7	6.0
PRIZM	4.8	4.2	5.6	6.1	6.2	5.9	5.7	5.7	6.0	5.9	6.0	5.2	6.0
MANHATTAN 3	4.0	3.8	5.8	6.0	6.0	5.9	5.7	5.7	6.0	6.0	5.7	5.4	6.0
TOP HAT	4.7	4.0	5.4	5.9	6.1	5.9	5.9	5.7	6.0	5.9	5.7	5.6	6.0
LRF-94-C8	4.0	3.5	5.5	6.3	6.3	5.8	5.5	5.6	5.9	6.0	5.9	5.1	6.0
CATALINA (PST-GH-94)	4.2	3.7	5.3	6.0	6.4	6.0	5.7	5.5	6.0	6.0	5.9	4.7	6.0
PASSPORT (PST-2FF)	4.2	3.7	5.4	5.9	6.2	6.0	5.5	5.7	5.9	6.0	5.9	5.3	6.0
MB 44	4.2	4.0	5.7	6.3	6.6	6.1	5.6	5.5	5.7	5.9	5.5	5.1	6.0
LINE DRIVE (MB 47)	4.5	3.8	5.8	6.3	6.3	5.8	5.6	5.6	5.9	5.9	6.0	5.5	6.0
ESQUIRE	4.0	3.5	5.3	6.1	6.2	6.0	5.8	5.6	5.8	5.9	6.0	5.5	6.0
REPELL III (LRF-94-C7)	4.2	4.0	5.8	6.4	6.4	5.8	5.6	5.4	5.8	5.9	5.5	5.0	5.9
RIVIERA II	4.5	3.8	5.4	6.0	6.2	5.8	5.7	5.6	5.9	5.8	5.7	5.4	5.9
TOP GUN (J-1703)	4.0	3.5	5.3	5.8	6.0	5.9	5.8	5.6	5.8	5.8	5.9	5.0	5.9
MAJESTY (MB 43)	4.2	3.8	5.6	6.3	6.3	5.8	5.6	5.4	6.0	5.8	5.9	4.5	5.9
SR 4400 (SRX 4400)	4.5	3.8	5.6	5.8	6.0	5.9	5.9	5.6	5.8	5.8	5.6	5.3	5.9
LAREDO	4.7	4.2	5.3	5.7	5.9	6.0	5.8	5.6	5.9	5.9	5.8	5.4	5.9
ASSURE	4.3	3.8	5.6	6.0	6.1	5.9	5.7	5.6	5.9	5.8	5.8	5.5	5.9
SONATA (EST-2R3)	3.8	3.3	5.3	5.8	6.0	5.8	5.6	5.5	6.0	6.1	5.8	4.6	5.9
HEAD START (PICK PR 84-91)	3.7	3.5	5.3	6.1	6.1	5.9	5.7	5.5	6.0	5.8	5.6	4.8	5.9
ACHIEVER	4.2	3.8	5.3	5.9	5.7	5.7	5.8	5.8	5.9	5.8	5.7	5.2	5.9
CUTTER	4.0	3.8	5.3	6.0	6.0	5.8	5.8	5.6	5.9	5.6	5.9	5.0	5.9
SR 4200	4.0	3.8	5.8	5.9	6.1	6.0	5.8	5.5	5.8	5.8	5.6	5.2	5.9
BRIGHTSTAR	4.3	4.0	5.8	5.8	6.2	6.0	5.6	5.5	5.9	5.8	5.7	5.3	5.9
SUNSHINE (PICK LP 102-92)	4.2	3.5	5.6	6.1	6.1	5.9	5.5	5.6	5.9	5.7	5.6	4.9	5.9
EDGE	4.0	3.8	5.6	6.0	5.9	5.8	5.8	5.6	5.8	5.8	5.8	5.5	5.9
BLACKHAWK (TMI-EXFLP94)	4.3	3.8	5.4	5.8	5.9	5.8	5.8	5.6	5.8	5.7	5.9	5.3	5.9
STALLION SUPREME (PSI-E-1)	4.2	3.7	5.5	5.9	5.8	5.8	5.6	5.7	5.9	5.9	5.8	5.2	5.9
MARDIGRAS (ZPS-2NV)	4.0	3.8	5.5	5.9	6.0	5.9	5.6	5.4	5.9	5.8	5.7	5.1	5.9
VIVID	3.8	3.5	5.5	5.9	5.9	5.8	5.7	5.4	5.9	5.8	5.9	5.4	5.9
R2 (ISI-R2)	4.0	3.7	5.0	5.4	5.8	5.9	5.9	5.6	5.8	5.7	5.6	5.2	5.9
MB 45	4.7	4.2	5.7	6.1	6.4	5.8	5.4	5.4	5.8	6.0	5.3	4.8	5.8
OMEGA3 (ZPS-2DR-94)	4.2	4.0	5.7	5.9	6.0	5.8	5.7	5.4	5.8	5.7	5.7	5.3	5.8
WIZARD (MB 41)	3.8	3.7	5.6	6.1	6.1	5.9	5.6	5.5	5.6	5.8	5.6	5.1	5.8
ROADRUNNER (PST-2ET)	4.3	3.5	5.4	6.0	5.9	5.5	5.4	5.5	5.6	5.9	5.9	5.1	5.8
MVF-4-1	4.2	3.8	5.8	5.8	5.9	5.7	5.7	5.6	5.7	5.9	5.8	5.3	5.8
SATURN II (ZPS-2ST)	4.0	3.8	5.5	6.0	5.9	5.7	5.6	5.5	6.0	5.7	6.0	5.6	5.8
DIVINE	3.3	3.0	5.5	6.0	6.2	5.8	5.5	5.5	5.7	5.7	5.3	4.9	5.8
WX3-93	3.8	3.2	5.3	5.8	6.1	6.0	5.6	5.4	5.8	5.7	5.5	4.5	5.8
BLAZER III (PICK 928)	3.8	3.7	5.7	5.8	6.0	5.8	5.5	5.4	5.8	5.7	5.6	5.1	5.8
CHAPARRAL (PST-2DLM)	4.3	4.2	5.7	6.1	6.2	5.9	5.3	5.4	5.7	5.8	5.6	4.9	5.8

TABLE 2. (CONT'D) MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT TWENTY-SEVEN LOCATIONS IN THE U.S. AND CANADA  
1997 DATA  
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
WIND STAR (PST-28M)	4.2	3.8	5.3	5.6	6.0	5.9	5.8	5.4	5.7	5.6	5.6	5.3	5.8
OMNI	3.8	3.7	5.3	5.8	6.0	5.8	5.6	5.4	5.6	5.5	5.5	4.8	5.8
PS-D-9	4.0	3.7	5.7	5.7	5.7	5.8	5.7	5.5	5.7	5.6	5.5	5.1	5.8
IMAGINE	4.3	4.0	5.4	5.9	6.3	5.9	5.3	5.2	5.5	5.7	5.4	5.1	5.8
WIND DANCE (MB 46)	3.7	3.7	5.6	6.1	6.2	5.7	5.4	5.2	5.6	5.7	5.5	4.2	5.8
ASP400 (APR 106)	4.7	4.2	5.5	5.7	5.9	5.8	5.6	5.5	5.7	5.5	5.6	5.2	5.8
ACADEMY (PC-93-1)	4.3	4.0	5.4	5.6	5.8	5.8	5.6	5.4	5.8	5.7	5.6	5.2	5.8
KOOS 93-6	4.0	3.7	5.3	5.7	5.7	5.8	5.7	5.4	5.7	5.7	5.5	5.0	5.7
SPELL BOUND (WVPB-93-KEK)	4.3	3.5	5.7	6.0	5.8	5.8	5.5	5.3	5.6	5.7	5.5	5.6	5.7
NOBILITY	4.2	3.8	5.5	5.7	5.7	5.7	5.7	5.5	5.7	5.6	5.5	5.2	5.7
MORNING STAR	4.2	3.7	5.7	5.8	5.8	5.9	5.6	5.3	5.6	5.6	5.5	5.3	5.7
PRECISION	4.8	4.3	5.4	5.7	5.7	5.8	5.6	5.4	5.6	5.7	5.7	4.9	5.7
BUCCANEER II (WVPB 92-4)	4.0	3.7	5.5	5.5	5.7	5.6	5.8	5.4	5.7	5.7	5.3	5.1	5.7
CITATION III (PST-2DGR)	3.8	3.7	5.3	5.8	5.9	5.6	5.3	5.3	5.7	5.8	5.6	5.0	5.7
PROTOCOL (KOOS 93-3)	4.7	3.8	5.4	5.8	5.8	5.6	5.6	5.4	5.6	5.5	5.5	4.8	5.7
AER 124	4.5	4.0	5.4	5.8	5.8	5.7	5.4	5.4	5.5	5.4	5.7	5.3	5.7
ELF	4.2	3.7	5.8	6.0	5.8	5.6	5.3	5.1	5.6	5.5	5.6	4.9	5.7
STALLION SELECT	4.0	3.5	5.6	5.8	5.8	5.5	5.5	5.3	5.6	5.6	5.6	5.7	5.7
QUICKSTART	3.5	3.5	5.6	5.6	5.8	5.7	5.6	5.3	5.5	5.6	5.3	4.8	5.7
ADVANTAGE	3.8	3.5	5.3	5.7	5.9	5.5	5.3	5.2	5.7	5.6	5.6	4.9	5.7
CAS-LP23	4.2	3.7	5.6	5.7	5.9	5.7	5.3	5.0	5.5	5.6	5.5	4.8	5.6
NIGHT HAWK	4.3	3.8	5.8	5.9	5.9	5.7	5.3	5.0	5.5	5.6	5.5	4.9	5.6
EXPRESS	4.3	4.0	5.7	5.8	5.6	5.7	5.3	5.4	5.5	5.4	5.5	5.3	5.6
SR 4010 (SRX 4010)	3.8	3.3	5.6	5.8	5.7	5.5	5.5	5.4	5.6	5.4	5.5	5.2	5.6
WILLIAMSBURG	4.0	3.7	5.4	5.6	5.6	5.7	5.3	5.3	5.4	5.5	5.5	5.7	5.6
WX3-91	3.8	4.0	5.5	5.7	5.7	5.5	5.4	5.2	5.5	5.5	5.5	4.9	5.6
LEGACY II (LESCO-TWF)	3.8	3.3	5.4	5.7	5.8	5.4	5.2	5.2	5.5	5.5	5.5	4.8	5.6
NAVAJO	3.8	3.7	5.3	5.7	5.8	5.6	5.3	5.1	5.4	5.4	5.3	4.9	5.6
EXCEL (MB 1-5)	4.2	3.8	5.6	6.1	6.0	5.6	5.1	5.0	5.4	5.4	5.2	4.4	5.6
WVPB-PR-C-2	4.0	3.7	5.7	5.5	5.7	5.7	5.4	5.2	5.3	5.4	5.5	5.2	5.5
SATURN	4.2	4.2	5.8	5.6	5.6	5.5	5.5	5.1	5.3	5.3	5.3	5.3	5.5
PST-2CB	4.0	3.8	5.9	5.8	5.7	5.4	5.3	5.0	5.4	5.5	5.2	4.8	5.5
AER 131	4.0	3.5	5.4	5.4	5.6	5.6	5.3	5.1	5.4	5.4	5.4	4.9	5.5
DANCER	4.2	3.7	5.1	5.4	5.7	5.5	5.2	5.1	5.4	5.4	5.3	4.8	5.5
BAR ER 5813	3.8	3.3	5.3	5.8	5.7	5.4	5.1	5.0	5.4	5.3	4.9	4.8	5.4
STARDANCE (PST-2FE)	3.5	3.0	5.2	5.5	5.5	5.3	5.1	5.0	5.2	5.4	5.2	4.2	5.4
NINE-O-ONE	4.5	3.8	5.7	5.5	5.2	5.3	5.4	5.1	5.1	5.1	5.1	4.9	5.4
PEGASUS	4.3	3.5	5.7	5.5	5.6	5.5	5.2	4.9	5.1	5.1	5.2	5.3	5.3
AER 066	4.0	3.2	5.1	5.3	5.4	5.4	5.1	4.9	5.2	5.3	5.1	4.8	5.3
DIP 1305	3.8	3.5	5.3	5.1	5.4	5.5	4.7	4.5	4.6	4.4	4.2	4.5	5.0
DSV NA 9402	4.7	4.3	5.2	4.6	5.1	5.2	4.7	4.5	4.8	4.9	4.7	4.4	4.9
FIGARO	4.5	4.2	5.7	4.5	5.0	5.1	4.7	4.4	4.7	4.7	4.8	5.1	4.9
DSV NA 9401	4.3	4.0	5.1	4.6	5.2	5.0	4.6	4.4	4.8	4.7	4.5	4.3	4.9
PENNFINE	3.7	3.3	5.2	4.5	4.4	4.7	4.5	4.3	4.4	4.2	4.0	4.1	4.6
LINN	2.8	2.3	3.7	2.9	3.0	3.3	3.1	3.1	3.1	3.1	3.0	3.5	3.3
LSD VALUE	0.7	0.9	1.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.7	1.3	0.4
CV (%)	15.3	21.3	33.7	23.6	23.7	26.2	28.8	32.6	30.1	28.5	27.4	31.5	21.3

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 5.

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 1997 DATA  
 SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IA1	IL1	IN1	MD1	MI1	MO3	NE1	NJ1	OH1	OK1	RI1	VA1	WA1	WA3	MEAN
ELF	7.0	6.0	6.0	6.0	6.0	7.0	4.7	5.7	8.3	5.7	5.0	6.7	5.7	7.3	6.2
LRF-94-C8	6.0	4.0	6.0	5.7	5.3	8.7	3.0	5.3	8.3	6.0	4.0	7.3	6.0	9.0	6.0
CALYPSO II	5.7	4.7	6.3	6.3	5.7	8.0	3.3	5.7	7.7	6.0	5.0	6.0	6.7	7.3	6.0
PREMIER II (BAR USA 94-II)	6.3	4.7	6.3	6.0	5.7	7.0	5.0	5.0	7.7	5.3	5.0	6.0	6.3	8.0	6.0
TOP GUN (J-1703)	6.0	4.7	6.0	5.3	6.7	6.7	4.3	5.7	7.7	6.3	5.0	5.7	5.7	7.0	5.9
EDGE	6.3	5.0	6.0	5.3	6.0	6.3	4.7	5.7	8.0	6.0	4.7	5.7	6.0	7.0	5.9
EXPRESS	6.0	5.7	6.3	6.3	4.7	6.0	3.7	6.0	7.7	6.0	6.0	5.7	6.3	6.3	5.9
ESQUIRE	5.7	5.3	6.0	6.3	6.7	6.0	4.7	5.7	8.0	6.0	5.0	6.0	4.0	7.0	5.9
DIVINE	6.3	5.0	5.7	6.0	5.0	6.7	3.3	6.0	8.0	5.7	4.3	6.3	5.7	8.0	5.9
MVF-4-1	6.3	5.7	6.0	5.7	5.7	5.7	5.0	6.0	8.0	6.0	4.0	5.7	5.3	7.0	5.9
SATURN	6.3	5.7	6.0	5.7	6.3	5.7	5.0	5.7	8.0	5.0	5.7	5.3	5.0	6.7	5.9
PANTHER (ZPS-PR1)	5.7	5.7	6.7	6.0	5.3	6.3	4.7	5.7	8.0	5.7	4.0	5.3	5.0	8.0	5.9
ROADRUNNER (PST-2ET)	6.0	4.3	5.7	5.3	5.3	8.3	3.3	6.0	7.7	5.3	4.0	7.0	5.7	7.7	5.8
SECRETARIAT (RPBD)	6.3	6.0	6.0	6.0	4.7	5.7	4.3	5.7	7.7	5.0	5.0	6.0	5.3	8.0	5.8
WX3-91	6.3	4.7	6.0	5.0	4.3	8.0	3.7	7.0	8.0	6.0	5.0	5.7	5.0	7.0	5.8
WIZARD (MB 41)	7.0	4.7	5.7	6.0	4.7	6.7	4.0	5.3	8.0	6.0	4.3	6.3	5.0	7.7	5.8
ACHIEVER	6.0	5.3	6.0	5.7	5.3	5.0	4.0	6.7	7.7	6.3	4.7	5.7	5.7	6.7	5.8
PS-D-9	5.3	5.0	6.3	6.0	5.7	6.0	4.3	5.3	8.3	5.3	6.0	5.7	4.3	7.0	5.8
ACADEMY (PC-93-1)	5.3	5.0	6.0	7.0	5.3	5.7	4.3	5.7	7.3	6.3	5.0	5.7	4.7	7.0	5.7
EXCEL (MB 1-5)	7.0	3.3	5.3	6.0	4.7	7.0	4.0	5.0	8.3	5.3	4.0	6.3	5.7	8.3	5.7
PST-2CB	6.7	5.7	5.7	5.3	3.7	5.3	4.3	6.0	8.0	5.3	5.3	6.0	6.0	7.0	5.7
PALMER III (LRF-94-MPRH)	5.3	4.3	5.7	6.3	5.0	6.7	4.0	5.7	8.3	6.0	4.0	6.0	5.3	7.7	5.7
SR 4200	6.3	5.0	6.0	6.0	5.3	6.3	4.0	5.3	7.7	5.7	5.0	5.7	4.7	7.3	5.7
REPELL III (LRF-94-C7)	5.3	5.3	5.7	5.7	5.0	6.3	3.3	5.0	8.3	5.3	4.3	7.0	4.7	8.7	5.7
MONTEREY (J-1706)	5.7	5.3	6.3	5.7	5.3	6.3	4.3	4.7	8.0	5.7	3.0	5.7	6.7	7.3	5.7
PRECISION	6.0	5.3	6.3	6.3	5.7	6.0	3.7	5.7	7.7	6.0	3.3	5.3	5.7	7.0	5.7
RIVIERA II	6.3	5.0	6.3	5.0	4.7	6.0	4.7	5.0	8.0	5.3	4.3	5.7	6.3	7.3	5.7
PROTOCOL (KOOS 93-3)	5.7	5.7	6.0	5.0	5.3	6.0	5.0	5.7	8.0	5.3	5.0	5.7	4.7	6.7	5.7
OMEGA3 (ZPS-2DR-94)	6.0	4.7	6.3	5.0	6.0	5.0	4.0	5.0	8.0	5.3	5.0	5.3	6.3	7.7	5.7
PRIZM	6.0	4.0	6.0	5.7	4.3	7.3	4.3	5.3	8.0	6.0	4.0	5.7	5.7	7.3	5.7
QUICKSTART	6.3	5.7	6.0	5.7	6.0	6.7	3.0	5.3	8.0	5.7	4.0	6.0	5.3	6.0	5.7
CADDIESHACK (MED 5071)	6.0	4.3	6.0	5.7	5.3	6.3	3.7	5.0	8.0	5.7	4.7	6.3	4.7	8.0	5.7
CITATION III (PST-2DGR)	6.0	5.0	6.3	6.0	3.3	6.7	3.3	6.0	8.0	6.0	4.0	6.0	5.3	7.7	5.7
PRELUDE III (IRF-94-B6)	5.7	4.3	6.0	5.3	4.7	6.0	3.0	4.3	8.3	5.7	5.3	7.0	4.7	9.0	5.7
ASP400 (APR 106)	5.7	3.7	6.0	6.0	5.7	7.0	4.0	5.0	8.0	6.0	5.0	5.3	4.7	7.3	5.7
VIVID	4.7	5.7	6.0	6.0	4.7	6.3	3.7	5.3	8.0	5.7	4.3	6.3	5.3	7.3	5.7
ISI-MHB	5.3	4.0	6.7	6.0	5.3	6.0	3.7	5.0	8.0	6.0	4.7	6.0	5.3	7.3	5.7
ACCENT	5.3	5.3	6.0	5.7	5.7	6.7	4.0	4.7	7.3	6.3	4.3	5.7	5.0	7.0	5.6
PEGASUS	6.0	4.0	6.0	5.3	5.7	6.0	3.3	6.0	8.0	6.0	4.7	5.7	5.3	7.0	5.6
STARDANCE (PST-2FE)	5.7	3.3	6.3	5.7	4.0	7.3	3.0	6.7	8.0	5.3	4.0	6.3	6.3	7.0	5.6
BUCCANEER II (WVPB 92-4)	6.0	5.3	6.0	5.0	4.7	5.3	4.3	6.3	8.3	5.3	5.0	5.7	4.7	6.3	5.6
STALLION SELECT	6.7	5.3	6.0	5.0	5.7	6.0	3.7	5.0	8.0	6.0	3.7	5.7	4.7	7.0	5.6
BLACKHAWK (TMI-EXFLP94)	5.7	5.0	6.7	6.0	4.7	6.0	3.7	5.0	8.0	5.7	5.0	5.7	4.3	7.0	5.6
LAREDO	5.3	3.7	5.7	5.7	5.0	6.7	3.7	6.3	8.0	5.7	4.0	5.7	6.0	7.0	5.6
MANHATTAN 3	5.7	3.7	5.7	6.0	5.3	7.0	3.3	4.7	8.0	5.7	3.3	6.3	5.7	8.0	5.6
ASSURE	7.0	5.0	5.7	6.0	6.0	5.3	4.0	5.0	7.7	5.0	4.0	5.7	4.7	7.0	5.6
DANCER	5.3	6.0	6.0	5.3	6.3	5.3	4.3	5.3	7.7	5.7	4.3	5.7	4.0	6.7	5.6
TOP HAT	5.7	5.0	6.0	5.7	5.3	5.7	4.0	5.3	8.0	6.3	3.0	5.7	5.3	7.0	5.6
WVPB-PR-C-2	6.0	5.7	6.3	5.3	5.7	5.7	4.0	5.0	7.7	5.0	4.3	5.3	5.0	7.0	5.6
LINE DRIVE (MB 47)	6.3	5.0	6.0	5.3	3.3	7.0	3.7	4.7	8.7	5.0	3.7	6.7	5.3	7.3	5.6
R2 (ISI-R2)	5.7	4.7	6.3	5.3	5.7	5.7	4.0	6.0	8.0	5.7	4.0	5.3	5.3	6.3	5.6
APR 066	5.0	5.3	6.7	5.7	5.0	5.7	4.3	5.3	7.0	5.7	4.7	5.0	5.3	7.0	5.5

TABLE 5. (CONT'D)

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 1997 DATA  
 SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	IA1	IL1	IN1	MD1	MI1	MO3	NE1	NJ1	OH1	OK1	RI1	VA1	WA1	WA3	MEAN
SR 4400 (SRX 4400)	5.7	4.3	6.3	6.3	3.7	5.3	4.0	5.0	7.7	6.0	6.0	5.7	4.7	7.0	5.5
DLP 1305	6.3	4.3	6.0	5.0	6.0	5.3	4.3	5.7	7.7	5.7	5.0	5.7	4.3	6.3	5.5
NIGHT HAWK	6.0	5.3	6.0	5.0	4.7	5.3	3.7	4.7	8.0	5.0	5.0	6.7	5.0	7.3	5.5
WIND STAR (PST-28M)	6.3	4.3	6.3	5.3	5.0	5.3	4.0	5.3	7.7	6.0	4.0	5.7	5.3	7.0	5.5
BLAZER III (PICK 928)	5.7	4.3	5.0	6.0	6.0	6.3	4.3	4.3	8.0	4.7	4.3	5.7	5.7	7.0	5.5
CATALINA (PST-GH-94)	5.0	5.0	5.3	6.0	5.3	8.0	3.0	4.3	8.0	5.7	2.7	6.7	4.7	7.7	5.5
OMNI	5.7	5.0	5.7	5.3	4.3	6.0	4.3	4.3	7.7	5.7	4.3	6.0	5.7	7.3	5.5
WIND DANCE (MB 46)	5.0	3.7	5.0	5.7	6.3	7.5	3.0	4.0	8.7	5.0	3.0	7.0	4.3	9.0	5.5
BRIGHTSTAR II (PST-2M3)	5.3	3.7	5.3	6.0	5.3	7.7	2.7	2.7	8.3	5.7	3.3	7.0	5.0	9.0	5.5
KOOS 93-6	5.3	4.7	6.0	5.3	4.3	6.3	3.7	6.0	7.7	5.7	5.0	5.7	4.7	6.7	5.5
MB 44	5.7	3.7	5.3	5.7	5.3	8.0	2.3	3.7	8.0	5.0	3.0	7.3	5.0	9.0	5.5
MB 45	5.7	4.3	5.7	6.7	3.3	7.3	3.7	4.3	8.3	5.7	2.7	6.0	4.7	8.7	5.5
CUTTER	5.3	5.7	5.7	5.3	5.0	6.7	2.7	4.0	8.0	6.0	4.0	6.3	5.3	7.0	5.5
SATURN II (ZPS-2ST)	6.3	3.7	6.0	5.3	4.7	6.3	3.3	6.0	8.0	5.7	4.3	5.7	4.7	6.7	5.5
SPELL BOUND (WVPB-93-KFK)	6.0	5.0	6.0	5.7	4.7	6.0	4.0	5.3	7.7	5.7	3.0	5.7	5.0	7.0	5.5
WILLIAMSBURG	6.3	5.3	6.0	5.3	5.7	4.3	3.7	5.0	7.7	5.7	4.0	5.3	5.7	6.7	5.5
CHAPARRAL (PST-2DLM)	5.7	4.3	5.7	5.3	5.3	7.0	2.7	4.7	8.0	5.7	2.7	6.0	5.0	8.7	5.5
PENNANT II (MB 42)	5.3	4.3	5.7	6.0	4.5	7.3	2.7	4.7	8.0	5.0	3.3	6.7	4.7	8.3	5.5
SONATA (PST-2R3)	5.3	3.7	5.3	6.0	4.3	6.7	5.0	4.3	8.0	6.0	4.3	5.7	4.7	7.0	5.5
SUNSHINE (PICK LP 102-92)	5.7	5.0	6.0	5.3	4.7	5.3	2.3	4.7	8.0	5.0	4.7	6.7	5.0	8.0	5.5
BRIGHTSTAR	5.0	4.3	6.0	5.7	4.3	5.7	3.0	4.7	8.0	6.0	4.0	6.0	5.7	7.7	5.4
NOBILITY	5.0	4.7	6.0	5.7	3.7	5.7	4.3	5.3	8.0	5.7	5.0	5.3	5.3	6.3	5.4
STALLION SUPREME (PSI-E-1)	5.7	5.3	5.7	5.0	4.7	6.3	3.3	5.0	7.7	5.7	4.0	5.7	5.0	7.0	5.4
APR 124	5.3	4.3	6.0	5.7	4.3	6.0	4.7	4.7	7.7	5.7	4.0	6.0	4.3	7.3	5.4
PASSPORT (PST-2FF)	6.3	4.3	6.0	5.0	5.0	6.3	3.3	4.3	8.0	5.0	4.0	5.7	5.0	7.3	5.4
MAJESTY (MB 43)	6.0	4.0	5.0	6.0	5.0	6.7	3.0	3.7	8.0	5.3	4.0	6.0	5.0	8.0	5.4
MORNING STAR	5.7	4.3	6.0	5.7	3.7	6.0	3.7	5.7	8.0	6.0	4.0	6.0	4.0	7.0	5.4
APR 131	5.7	4.3	6.0	6.0	4.0	6.0	3.0	5.3	8.0	5.3	4.3	5.7	5.0	6.3	5.4
LEGACY II (LESCO-TWF)	5.3	3.7	6.0	5.7	4.3	7.3	2.7	4.7	8.3	5.0	4.0	6.0	4.0	8.0	5.4
CAS-LP23	6.3	4.0	5.7	4.3	4.7	7.0	4.0	4.0	7.7	4.3	3.3	6.3	5.0	8.0	5.3
PENNFINE	5.3	5.7	6.0	4.3	4.0	5.3	3.7	6.7	7.7	5.0	4.7	5.0	5.3	6.0	5.3
WX3-93	5.0	4.7	5.7	6.0	4.3	5.7	3.3	4.3	7.7	5.3	4.0	6.3	4.0	8.0	5.3
DSV NA 9402	4.7	5.0	5.7	6.0	5.7	6.0	4.0	5.3	7.7	6.0	4.0	5.3	3.0	6.0	5.3
IMAGINE	5.3	4.3	5.0	5.0	5.3	7.0	2.3	2.7	8.7	5.0	3.0	7.0	4.3	9.0	5.3
BAR ER 5813	5.0	4.3	5.7	5.7	3.7	5.7	3.3	4.3	8.0	5.7	5.0	5.3	5.0	7.0	5.3
SR 4010 (SRX 4010)	5.7	4.7	6.7	5.3	3.7	5.7	3.7	5.0	8.0	6.0	3.0	5.7	3.7	7.0	5.3
MARDIGRAS (ZPS-2NV)	5.7	4.3	6.0	5.3	4.3	6.7	3.0	4.7	7.0	4.7	4.0	6.0	4.7	7.0	5.2
FIGARO	5.3	4.0	6.0	5.0	5.7	5.7	5.3	5.0	7.7	5.0	4.3	5.0	3.0	6.0	5.2
NINE-O-ONE	6.0	4.0	5.3	5.7	3.7	5.3	2.3	4.7	8.0	5.0	4.0	6.0	4.7	8.0	5.2
DSV NA 9401	4.7	5.7	6.0	5.0	6.0	5.7	4.3	4.7	7.0	5.3	3.3	5.3	3.0	5.7	5.1
NAVAJO	6.7	4.3	5.3	4.7	4.3	6.3	3.7	3.0	8.0	4.3	3.0	6.3	4.3	7.3	5.1
ADVANTAGE	5.3	3.7	5.3	5.7	5.0	5.0	3.0	4.3	8.0	4.7	3.7	5.7	4.7	7.3	5.1
HEAD START (PICK PR 84-91)	4.7	4.0	5.3	5.0	4.7	6.0	3.7	3.3	8.0	4.7	3.0	5.7	4.3	7.0	5.0
LINN	3.0	4.0	5.0	4.3	5.3	4.3	2.0	6.7	7.7	4.3	3.7	5.0	5.3	4.7	4.7
LSD VALUE	1.6	1.4	0.8	0.7	2.2	2.0	1.3	1.6	0.7	1.1	0.6	0.9	1.7	0.7	0.4
CV (%)	16.9	18.2	8.6	7.9	27.1	19.8	21.1	19.8	5.8	12.5	9.6	9.7	21.2	5.7	14.9

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 7. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA  
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	GA1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
LINE DRIVE (MB 47)	4.7	7.7	8.3	8.0	7.7	4.7	6.7	6.8
OMNI	4.0	7.0	8.3	8.0	8.7	4.3	7.0	6.8
ASP400 (APR 106)	4.3	7.0	8.3	8.3	7.0	4.7	7.3	6.7
PALMER III (LRF-94-MPRH)	4.7	8.0	8.7	7.0	7.3	4.7	6.7	6.7
PANTHER (ZPS-PR1)	4.3	7.0	8.7	7.7	7.3	4.7	7.3	6.7
SR 4400 (SRX 4400)	4.7	5.7	9.0	9.0	7.0	5.0	6.7	6.7
SUNSHINE (PICK LP 102-92)	3.7	7.0	8.7	8.3	7.7	5.0	6.7	6.7
PRIZM	4.3	7.3	8.0	8.0	7.3	4.7	7.0	6.7
RIVIERA II	3.7	7.3	8.0	8.7	7.3	5.0	6.7	6.7
CALYPSO II	4.0	7.7	8.0	7.0	8.0	4.3	7.0	6.6
VIVID	4.3	7.0	8.0	8.7	7.3	4.3	6.3	6.6
ACHIEVER	4.0	7.7	8.0	8.7	6.7	4.7	6.3	6.6
ISI-MHB	4.0	6.3	9.0	7.7	7.3	5.0	6.7	6.6
MONTEREY (J-1706)	4.0	7.3	8.7	7.0	7.3	4.7	7.0	6.6
CUTTER	3.7	7.0	8.0	8.7	6.7	5.3	6.7	6.6
LAREDO	4.0	7.3	8.3	8.0	6.7	4.7	7.0	6.6
ACCENT	3.7	6.7	9.0	8.3	7.3	4.0	6.7	6.5
WX3-93	3.7	7.7	8.0	8.0	7.0	5.0	6.3	6.5
ESQUIRE	4.0	6.0	9.0	8.3	6.7	5.0	6.7	6.5
PASSPORT (PST-2FF)	3.7	6.7	8.0	8.0	7.7	5.0	6.7	6.5
LRF-94-C8	3.7	8.0	7.7	7.0	8.0	4.7	6.7	6.5
ACADEMY (PC-93-1)	4.0	6.7	7.7	8.3	7.3	5.0	6.3	6.5
BUCCANEER II (WVPB 92-4)	4.0	6.0	8.3	8.7	7.0	5.0	6.3	6.5
SECRETARIAT (RPBD)	4.3	7.0	8.7	6.7	7.3	5.0	6.3	6.5
SONATA (EST-2R3)	4.0	7.7	9.0	7.3	7.3	4.7	5.3	6.5
SPELL BOUND (WVPB-93-KFK)	4.3	6.0	8.3	8.3	7.0	5.0	6.3	6.5
APR 066	4.3	6.7	8.0	8.7	7.0	5.0	5.7	6.5
MB 44	4.0	6.3	8.0	7.7	7.7	5.0	6.7	6.5
PENNANT II (MB 42)	4.0	7.3	8.3	8.0	6.0	4.7	7.0	6.5
HEAD START (PICK PR 84-91)	3.7	6.7	8.3	7.7	7.3	4.3	7.0	6.4
MB 45	4.0	7.7	7.7	7.0	7.0	5.0	6.7	6.4
PS-D-9	4.0	7.0	8.0	7.7	7.7	4.0	6.7	6.4
BRIGHTSTAR	4.0	7.3	8.0	7.3	7.7	4.0	6.7	6.4
WIZARD (MB 41)	4.3	6.3	8.7	7.3	7.0	4.7	6.7	6.4
APR 131	4.3	7.3	7.3	8.3	7.0	4.0	6.3	6.4
BAR ER 5813	4.0	5.7	8.3	9.0	7.0	4.3	6.3	6.4
BRIGHTSTAR II (PST-2M3)	4.3	7.7	7.0	7.0	7.0	4.3	7.3	6.4
KOOS 93-6	4.3	6.3	8.7	8.0	6.7	4.3	6.3	6.4
PREMIER II (BAR USA 94-II)	4.0	6.7	8.3	7.0	7.7	4.3	6.7	6.4
BLACKHAWK (TMI-EXFLP94)	4.0	7.0	8.0	8.3	6.7	4.3	6.0	6.3
EDGE	4.0	7.0	8.0	8.3	6.3	4.0	6.7	6.3
ELF	4.0	6.3	8.0	7.7	6.3	5.3	6.7	6.3
MARDIGRAS (ZPS-2NV)	3.3	7.0	8.0	6.7	8.0	5.0	6.3	6.3
OMEGA3 (ZPS-2DR-94)	4.3	6.7	8.0	7.7	7.0	4.7	6.0	6.3
PRELUDE III (LRF-94-B6)	4.0	7.3	7.7	7.3	6.7	5.0	6.3	6.3
SATURN II (ZPS-2ST)	3.7	7.3	7.7	8.0	7.0	4.7	6.0	6.3
WX3-91	3.7	7.3	8.0	8.3	6.3	4.0	6.7	6.3
CADDIESHACK (MED 5071)	3.7	7.0	9.0	7.0	7.0	3.7	7.0	6.3
NOBILITY	4.0	7.0	8.7	8.0	6.7	4.3	5.7	6.3
EXPRESS	4.0	7.0	8.3	7.7	6.7	4.3	6.0	6.3
STALLION SUPREME (PSI-E-1)	4.0	5.7	8.7	7.7	7.7	4.3	6.0	6.3
ROADRUNNER (PST-2ET)	4.3	7.7	8.0	7.0	7.0	4.0	6.0	6.3

TABLE 7. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) 1997 DATA  
 DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	GA1	MO3	NE1	OK1	PA1	QE1	WA3	MEAN
WILLIAMSEURG	4.0	6.7	8.0	8.0	6.7	5.0	5.7	6.3
MORNING STAR	4.0	6.3	8.0	8.0	7.0	4.7	6.0	6.3
MANHATTAN 3	3.7	6.7	8.7	7.7	6.7	4.3	6.0	6.2
PRECISION	4.7	7.3	8.0	8.0	6.0	3.3	6.3	6.2
PROTOCOL (KOOS 93-3)	4.7	5.7	8.0	8.0	6.3	4.3	6.7	6.2
STALLION SELECT	3.7	5.7	8.3	8.0	7.0	5.0	6.0	6.2
EXCEL (MB 1-5)	3.7	5.0	8.0	7.7	7.7	5.0	6.7	6.2
MAJESTY (MB 43)	4.3	6.7	7.7	7.3	6.3	4.7	6.7	6.2
SR 4200	4.0	5.7	8.0	8.3	7.0	3.7	7.0	6.2
CATALINA (PST-GH-94)	4.0	7.3	8.0	7.3	6.3	4.0	6.3	6.2
QUICKSTART	4.3	6.3	7.3	8.3	7.0	5.0	5.0	6.2
REPELL III (LRF-94-C7)	3.7	6.7	8.3	7.0	6.0	4.3	7.3	6.2
SR 4010 (SRX 4010)	4.0	6.3	7.7	8.3	7.0	3.7	6.3	6.2
WVPB-PR-C-2	4.7	5.7	8.3	7.3	6.3	4.7	6.3	6.2
ASSURE	4.3	5.7	8.7	8.0	6.7	4.0	6.0	6.2
CAS-LP23	4.3	6.3	7.7	6.7	7.0	4.7	6.7	6.2
PEGASUS	4.0	6.3	8.0	7.3	7.0	4.7	6.0	6.2
TOP HAT	3.7	6.0	8.0	8.0	7.0	4.0	6.7	6.2
LEGACY II (LESCO-TWF)	3.7	7.3	7.0	7.7	7.3	4.7	5.3	6.1
NIGHT HAWK	4.0	6.0	7.3	8.0	7.0	4.3	6.3	6.1
NINE-O-ONE	4.0	7.3	7.0	6.7	7.0	4.7	6.3	6.1
TOP GUN (J-1703)	4.0	7.3	8.0	7.7	6.3	3.7	6.0	6.1
APR 124	4.7	7.0	8.3	7.0	5.7	3.7	6.7	6.1
CITATION III (PST-2DGR)	3.3	7.3	7.3	7.7	6.7	4.3	6.0	6.1
NAVAJO	4.0	6.0	8.3	6.0	7.0	5.0	6.3	6.1
DANCER	4.0	6.3	7.7	7.0	7.0	4.0	6.7	6.1
IMAGINE	3.7	6.3	7.3	7.0	6.7	4.0	7.7	6.1
MVF-4-1	4.0	6.3	8.0	6.7	6.7	4.3	6.7	6.1
R2 (ISI-R2)	4.3	6.3	7.7	6.7	7.0	4.7	6.0	6.1
DIVINE	3.7	4.7	8.0	8.0	7.3	4.7	6.0	6.0
SATURN	4.0	6.0	8.0	7.3	7.0	4.0	6.0	6.0
DSV NA 9401	4.0	6.0	7.7	7.7	6.3	4.3	6.0	6.0
PST-2CB	4.3	5.0	8.3	7.7	7.3	4.3	5.0	6.0
DLP 1305	3.7	5.0	8.7	7.3	6.7	4.0	6.7	6.0
WIND DANCE (MB 46)	3.7	6.0	7.7	6.3	6.7	4.7	6.7	6.0
BLAZER III (PICK 928)	4.0	6.0	8.0	7.0	6.7	3.0	6.7	5.9
DSV NA 9402	5.3	5.0	7.7	7.0	6.7	4.0	5.7	5.9
WIND STAR (PST-28M)	3.7	5.7	7.0	6.3	7.3	4.3	6.3	5.8
PENNFINE	3.7	5.7	8.3	6.3	6.3	5.0	5.3	5.8
ADVANTAGE	3.7	6.0	7.7	6.7	7.3	3.7	5.3	5.8
CHAPARRAL (PST-2DLM)	4.3	5.7	7.0	7.0	6.3	4.3	5.7	5.8
FIGARO	4.3	5.0	8.0	6.3	6.7	3.3	6.0	5.7
STARDANCE (PST-2FE)	3.7	5.3	7.3	6.7	6.7	4.3	5.7	5.7
LINN	3.7	2.3	5.7	6.0	5.3	2.3	3.7	4.1
LSD VALUE	1.3	1.5	1.0	1.6	1.4	2.0	1.0	0.5
CV (%)	20.1	13.9	7.8	12.9	12.1	28.4	9.8	14.1

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 8. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA  
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	IL1	MO3	NE1	OK1	QEL	WA3	MEAN
SR 4400 (SRX 4400)	6.0	6.0	5.0	9.0	7.0	7.3	7.3	6.8
ISI-MHB	6.3	6.0	5.7	8.7	6.0	7.3	7.7	6.8
BLACKHAWK (TMI-EXFLP94)	6.0	5.7	6.0	8.0	7.3	7.3	6.3	6.7
LINE DRIVE (MB 47)	7.3	5.3	6.3	8.3	5.7	6.7	7.0	6.7
SECRETARIAT (RPBD)	7.3	6.3	5.3	8.7	4.0	7.7	7.3	6.7
TOP HAT	7.0	6.0	5.3	8.3	6.0	7.0	7.0	6.7
CADDIESHACK (MED 5071)	6.7	5.7	5.7	8.0	6.0	7.0	7.3	6.6
SATURN II (ZPS-2ST)	7.0	6.0	5.0	8.0	6.3	7.3	6.7	6.6
PALMER III (LRF-94-MPRH)	5.7	6.7	6.3	8.3	4.0	7.7	7.7	6.6
WX3-93	5.3	6.0	6.0	8.7	6.0	7.3	6.7	6.6
ACCENT	6.0	6.3	4.3	8.3	7.0	6.3	7.3	6.5
RIVIERA II	7.0	6.0	5.0	8.0	5.3	7.3	7.0	6.5
SR 4200	5.3	6.0	4.7	8.3	6.0	7.7	7.7	6.5
BRIGHTSTAR	6.3	6.0	5.7	7.7	5.0	7.3	7.3	6.5
SPELL BOUND (WVPB-93-KFK)	6.3	5.3	4.7	8.7	6.3	7.7	6.3	6.5
VIVID	5.7	5.3	5.7	7.7	6.7	7.3	7.0	6.5
NOBILITY	6.7	5.7	5.0	8.3	5.0	7.3	7.0	6.4
CALYPSO II	5.7	6.3	5.7	8.0	5.0	6.7	7.7	6.4
PASSPORT (PST-2FF)	5.7	6.7	5.7	8.0	4.3	7.3	7.3	6.4
ACADEMY (PC-93-1)	5.3	6.0	4.3	8.0	7.3	7.3	6.7	6.4
MB 44	7.7	5.3	4.3	9.0	5.0	7.0	6.7	6.4
MB 45	5.7	6.0	6.0	8.3	4.0	7.3	7.3	6.4
PS-D-9	6.0	5.3	6.3	8.3	5.0	7.0	6.7	6.4
BLAZER III (PICK 928)	7.0	6.7	4.7	8.3	4.3	6.3	7.0	6.3
MORNING STAR	5.7	5.7	5.0	8.0	6.0	7.3	6.7	6.3
PRIZM	6.0	6.0	5.0	8.3	4.3	7.3	7.3	6.3
WILLIAMSBURG	5.3	5.7	4.7	8.3	7.0	7.3	6.0	6.3
WIZARD (MB 41)	6.7	5.0	4.7	8.3	5.0	7.7	7.0	6.3
LAREDO	3.7	5.3	5.3	8.7	6.0	7.7	7.7	6.3
PENNANT II (MB 42)	6.3	5.7	6.0	8.7	3.7	7.0	7.0	6.3
OMEGA3 (ZPS-2DR-94)	4.7	4.3	6.0	8.3	6.3	7.0	7.0	6.2
OMNI	4.7	6.0	5.7	7.7	5.7	6.7	7.3	6.2
ACHIEVER	4.3	5.3	5.3	8.3	6.7	7.0	6.7	6.2
BRIGHTSTAR II (PST-2M3)	5.0	6.0	5.7	7.7	4.7	7.0	7.7	6.2
BUCCANEER II (WVPB 92-4)	5.7	5.0	5.3	8.0	5.7	7.3	6.7	6.2
EDGE	6.0	6.0	5.3	7.7	4.7	7.3	6.7	6.2
ESQUIRE	5.0	5.3	4.7	8.7	6.3	6.7	7.0	6.2
PRELUDE III (LRF-94-B6)	6.7	5.3	5.7	7.7	4.7	7.0	6.7	6.2
PREMIER II (BAR USA 94-II)	5.0	5.7	5.7	8.7	4.3	7.0	7.3	6.2
ASSURE	6.0	5.7	4.0	8.3	6.0	6.3	7.0	6.2
CUTTER	5.3	6.0	5.0	8.3	4.0	7.3	7.3	6.2
LRF-94-C8	6.3	4.7	6.0	8.3	4.0	7.0	7.0	6.2
SR 4010 (SRX 4010)	5.7	5.3	5.0	8.3	5.7	6.7	6.7	6.2
SUNSHINE (PICK LP 102-92)	5.0	6.0	4.7	8.7	4.7	7.3	7.0	6.2
REPELL III (LRF-94-C7)	5.0	5.7	5.3	8.0	4.7	7.0	7.3	6.1
SONATA (EST-2R3)	7.0	6.0	5.7	9.0	2.7	7.0	5.7	6.1
TOP GUN (J-1703)	6.0	5.3	4.7	8.0	6.0	7.0	6.0	6.1
PANTHER (ZPS-PR1)	4.7	4.7	6.0	8.7	4.3	7.0	7.7	6.1
R2 (ISI-R2)	5.7	5.3	5.3	8.0	5.0	7.0	6.7	6.1
BAR ER 5813	5.3	5.3	2.7	7.3	7.7	7.3	7.0	6.1
CATALINA (PST-GH-94)	5.7	6.0	5.0	8.0	4.3	7.0	6.7	6.1
HEAD START (PICK PR 84-91)	5.7	5.3	4.3	7.7	5.3	7.0	7.3	6.1

TABLE 8. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) 1997 DATA  
 DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	IL1	MO3	NE1	OK1	QE1	WA3	MEAN
IMAGINE	4.0	6.0	5.3	8.7	4.7	6.3	7.7	6.1
STALLION SUPREME (PSI-E-1)	5.7	5.3	4.7	8.0	6.0	7.3	5.7	6.1
EXPRESS	6.0	5.0	4.7	7.7	5.3	7.3	6.3	6.0
MAJESTY (MB 43)	5.3	5.3	5.3	8.0	3.7	7.3	7.3	6.0
MANHATTAN 3	5.0	5.0	4.7	8.7	6.0	7.0	6.0	6.0
MARDIGRAS (ZPS-2NV)	4.7	5.3	5.7	8.0	4.0	7.7	7.0	6.0
MONTEREY (J-1706)	4.0	6.0	6.0	8.3	3.3	7.3	7.3	6.0
MVF-4-1	4.7	5.3	5.3	8.3	4.7	7.0	7.0	6.0
APR 066	4.0	5.7	5.0	7.7	6.3	7.3	6.0	6.0
NIGHT HAWK	5.3	5.3	4.3	8.0	5.7	6.7	6.7	6.0
WVPB-PR-C-2	5.0	5.7	4.3	8.0	5.0	7.3	6.7	6.0
WX3-91	4.7	5.0	5.3	7.7	5.3	7.0	7.0	6.0
STALLION SELECT	5.3	5.0	4.0	8.3	5.7	7.0	6.7	6.0
ASP400 (APR 106)	3.7	5.3	5.0	7.7	5.7	7.0	7.0	5.9
CITATION III (PST-2DGR)	4.3	5.7	5.7	7.7	4.7	6.7	6.7	5.9
WIND STAR (PST-28M)	5.0	6.0	4.3	7.0	4.7	7.3	7.0	5.9
DANCER	4.0	6.3	5.0	7.7	4.3	7.0	7.0	5.9
APR 131	3.0	5.3	4.7	7.7	6.7	7.3	6.3	5.9
ADVANTAGE	4.7	5.3	5.3	8.0	4.7	6.7	6.3	5.9
ELF	4.0	5.7	4.3	8.3	4.0	7.7	7.0	5.9
EXCEL (MB 1-5)	4.7	5.3	2.7	8.3	5.7	7.3	7.0	5.9
NAVAJO	4.0	6.3	4.7	7.7	4.0	7.7	6.7	5.9
NINE-O-ONE	5.0	4.3	5.0	7.7	5.0	7.0	7.0	5.9
QUICKSTART	5.7	5.3	4.0	8.3	5.3	7.3	5.0	5.9
CAS-LP23	4.7	5.3	5.0	7.7	4.3	7.0	6.7	5.8
KOOS 93-6	4.3	5.0	5.3	8.0	4.3	7.0	6.7	5.8
LEGACY II (LESCO-TWF)	4.7	5.0	5.3	7.3	5.0	7.0	6.3	5.8
PROTOCOL (KOOS 93-3)	5.3	5.0	5.0	7.7	4.3	7.0	6.3	5.8
SATURN	4.3	5.7	4.0	8.0	5.3	6.7	6.7	5.8
PRECISION	2.3	6.0	6.0	8.0	4.0	7.0	7.0	5.8
APR 124	3.7	6.0	5.7	7.0	4.7	6.7	6.3	5.7
ROADRUNNER (PST-2ET)	4.7	5.3	5.7	7.7	4.7	6.0	6.0	5.7
CHAPARRAL (PST-2DLM)	5.0	5.3	4.0	8.0	3.7	7.0	6.7	5.7
WIND DANCE (MB 46)	4.7	6.0	3.0	8.3	3.3	7.0	7.3	5.7
DLP 1305	4.3	5.3	3.0	7.3	6.0	7.0	6.3	5.6
DIVINE	4.0	5.0	4.0	7.3	5.3	7.7	6.0	5.6
PEGASUS	4.3	4.7	4.3	8.0	5.0	7.0	6.0	5.6
PENNFINE	4.7	5.3	3.7	7.3	5.7	6.3	6.0	5.6
STARDANCE (PST-2FE)	5.0	5.7	3.0	8.0	4.0	6.7	5.7	5.4
PST-2CB	5.0	5.0	4.0	6.7	3.7	7.0	6.0	5.3
FIGARO	3.7	5.0	4.7	6.0	4.7	6.7	6.3	5.3
DSV NA 9402	3.7	4.7	4.0	5.3	5.0	7.3	5.7	5.1
DSV NA 9401	3.0	4.3	4.7	5.7	4.0	7.0	6.0	5.0
LINN	1.7	3.0	1.7	4.3	5.7	6.0	4.3	3.8
LSD VALUE	2.1	1.0	1.4	1.1	2.5	1.2	1.0	0.6
CV (%)	25.3	11.2	18.0	8.6	30.8	10.5	9.2	16.2

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

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



TABLE 9. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA  
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	AR1	GA1	MO3	NE1	OK1	QE1	WA3	MEAN
CALYPSO II	7.7	2.7	8.3	8.7	6.7	6.7	7.7	6.9
OMEGA3 (ZPS-2DR-94)	6.3	2.0	8.0	9.0	8.3	7.0	7.3	6.9
VIVID	6.7	2.3	7.7	8.3	8.0	7.3	7.0	6.8
LINE DRIVE (MB 47)	6.3	2.3	9.0	9.0	7.0	6.7	7.0	6.8
PALMER III (LRF-94-MPRH)	6.3	2.3	9.0	8.7	6.0	7.0	8.0	6.8
BRIGHTSTAR II (PST-2M3)	6.7	2.3	8.3	8.3	7.0	7.0	7.3	6.7
TOP HAT	7.3	2.7	6.7	8.7	8.3	6.3	7.0	6.7
BRIGHTSTAR	6.0	2.3	8.3	8.3	7.3	7.0	7.7	6.7
SR 4400 (SRX 4400)	6.7	2.7	7.0	8.7	8.0	6.7	7.3	6.7
PRIZM	6.3	2.7	8.3	8.7	6.7	6.7	7.7	6.7
CADDIESHACK (MED 5071)	6.7	2.3	8.3	8.0	7.3	7.0	7.0	6.7
BLACKHAWK (TMI-EXFLP94)	6.0	2.0	8.3	8.7	8.0	7.0	6.7	6.7
PANTHER (ZPS-PR1)	6.7	2.0	8.7	8.7	6.0	6.7	8.0	6.7
SATURN II (ZPS-2ST)	7.7	2.3	6.7	8.3	7.7	7.0	7.0	6.7
ACCENT	7.3	2.3	6.7	8.3	8.0	6.0	7.7	6.6
ISI-MHB	5.3	2.3	7.3	8.7	7.3	7.3	8.0	6.6
LRF-94-C8	7.3	2.0	8.7	8.0	6.7	7.0	6.7	6.6
SR 4200	6.7	2.3	7.0	8.7	7.0	7.0	7.7	6.6
LAREDO	6.3	2.3	7.3	8.0	7.7	7.0	7.3	6.6
ACADEMY (PC-93-1)	7.0	2.0	7.0	8.3	8.0	7.0	6.7	6.6
WIZARD (MB 41)	6.7	2.3	6.0	8.7	7.0	7.7	7.7	6.6
SUNSHINE (PICK LP 102-92)	7.0	2.0	7.7	8.3	6.7	7.0	7.0	6.5
ACHIEVER	5.7	2.7	8.0	8.7	7.7	6.7	6.3	6.5
CUTTER	6.7	2.3	7.3	8.7	6.3	7.0	7.3	6.5
PREMIER II (BAR USA 94-II)	7.3	2.0	7.7	8.7	5.7	7.0	7.3	6.5
SONATA (EST-2R3)	8.0	2.7	8.0	8.7	5.3	7.0	6.0	6.5
SPELL BOUND (WVPB-93-KFK)	7.3	2.3	6.7	8.3	7.7	7.3	6.0	6.5
MARDIGRAS (ZPS-2NV)	6.0	2.3	8.0	8.3	6.0	7.3	7.3	6.5
ESQUIRE	6.0	2.3	7.3	8.7	8.0	6.3	6.7	6.5
MAJESTY (MB 43)	6.7	2.3	7.7	9.0	6.0	6.7	7.0	6.5
NOBILITY	6.3	2.7	7.0	8.0	7.0	7.0	7.3	6.5
PRELUDE III (LRF-94-B6)	8.0	2.0	8.3	8.0	6.0	6.7	6.3	6.5
STALLION SUPREME (PSI-E-1)	7.7	2.0	6.7	8.7	7.7	7.3	5.3	6.5
WX3-93	5.7	2.3	8.0	8.3	7.3	7.0	6.7	6.5
PENNANT II (MB 42)	6.0	2.7	8.0	9.0	5.7	7.0	7.0	6.5
BUCCANEER II (WVPB 92-4)	6.7	2.7	7.0	8.0	7.0	7.3	6.3	6.4
RIVIERA II	7.0	2.3	7.0	8.3	6.7	6.7	7.0	6.4
HEAD START (PICK PR 84-91)	6.3	2.3	7.0	8.7	6.7	6.7	7.3	6.4
PASSPORT (PST-2FF)	6.0	2.0	8.7	8.7	5.7	7.0	7.0	6.4
PS-D-9	6.3	2.7	8.0	8.7	6.3	6.7	6.3	6.4
REPELL III (LRF-94-C7)	6.7	2.0	7.7	8.7	6.7	6.7	6.7	6.4
SECRETARIAT (RPBD)	6.7	2.3	7.7	8.0	5.7	7.0	7.7	6.4
EDGE	6.3	2.3	8.3	8.3	6.3	6.7	6.3	6.4
MORNING STAR	5.7	2.3	7.0	8.0	7.7	7.0	7.0	6.4
ADVANTAGE	6.0	2.0	8.0	8.7	6.7	6.7	6.7	6.4
BAR ER 5813	8.0	2.0	4.3	8.3	7.7	7.0	7.3	6.4
IMAGINE	6.7	2.0	7.3	8.7	6.3	6.3	7.3	6.4
MVF-4-1	6.0	2.0	7.3	8.7	7.0	7.0	6.7	6.4
OMNI	6.0	2.3	7.7	8.7	6.3	6.3	7.3	6.4
WIND STAR (PST-28M)	6.7	2.7	6.3	8.3	6.0	7.0	7.3	6.3
TOP GUN (J-1703)	7.0	2.0	7.3	8.3	7.3	6.3	6.0	6.3
CITATION III (PST-2DGR)	6.3	2.3	7.7	8.3	5.7	6.7	7.0	6.3

TABLE 9. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
(CONT'D) 1997 DATA  
DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	GA1	MO3	NE1	OK1	QE1	WA3	MEAN
MANHATTAN 3	6.3	2.3	6.3	8.3	7.7	7.0	6.0	6.3
MB 44	6.7	2.3	6.3	8.7	6.7	6.7	6.3	6.2
CATALINA (PST-GH-94)	7.0	2.3	6.7	8.7	5.7	6.7	6.7	6.2
ELF	6.7	1.7	6.7	9.0	5.7	7.3	6.7	6.2
SR 4010 (SRX 4010)	6.3	2.3	7.0	8.3	6.7	6.3	6.7	6.2
ASSURE	5.7	2.0	6.7	8.3	7.3	6.3	7.0	6.2
BLAZER III (PICK 928)	6.7	2.3	6.7	8.3	5.7	6.3	7.3	6.2
EXPRESS	6.0	2.0	7.7	8.0	6.3	7.0	6.3	6.2
MB 45	5.0	2.3	8.0	8.3	5.0	7.3	7.3	6.2
WILLIAMSEURG	5.3	2.0	7.7	8.0	7.7	6.7	6.0	6.2
WVPB-PR-C-2	6.7	1.7	6.7	8.3	6.7	7.3	6.0	6.2
KOOS 93-6	6.3	2.3	6.7	8.7	6.0	6.7	6.7	6.2
CHAPARRAL (PST-2DLM)	7.0	2.7	5.3	8.3	6.0	7.0	6.7	6.1
LEGACY II (LESCO-TWF)	4.7	2.0	7.3	8.0	7.0	7.0	7.0	6.1
MONTEREY (J-1706)	5.7	2.3	8.0	8.7	4.3	7.0	7.0	6.1
NINE-O-ONE	5.7	2.3	7.0	7.7	6.7	6.7	7.0	6.1
PRECISION	4.7	2.3	8.0	8.3	6.0	6.7	7.0	6.1
ROADRUNNER (PST-2ET)	6.0	2.3	8.3	8.0	6.7	6.0	5.7	6.1
STALLION SELECT	5.7	2.0	6.7	8.0	7.3	6.7	6.7	6.1
PROTOCOL (KOOS 93-3)	6.7	2.0	6.7	7.7	6.3	7.0	6.3	6.1
APR 131	4.0	2.0	7.3	8.0	8.0	7.0	6.3	6.1
CAS-LP23	6.3	2.0	7.0	8.0	6.0	6.7	6.7	6.1
WX3-91	5.3	2.0	7.0	7.7	6.7	7.0	6.7	6.0
APR 066	5.7	2.0	7.3	7.7	6.7	7.0	5.7	6.0
APR 124	5.0	2.3	8.0	8.0	6.3	6.7	5.7	6.0
ASP400 (APR 106)	4.3	2.3	7.3	8.3	6.3	6.7	6.7	6.0
DANCER	5.7	1.7	7.3	8.0	6.0	6.3	7.0	6.0
DIVINE	5.7	2.3	5.7	8.3	7.0	7.0	6.0	6.0
NAVAJO	5.7	2.3	6.0	8.3	5.7	7.3	6.7	6.0
R2 (ISI-R2)	5.0	2.0	7.3	8.0	6.3	6.7	6.7	6.0
NIGHT HAWK	5.7	1.7	6.3	7.7	7.0	6.7	6.7	6.0
SATURN	5.0	1.7	6.3	8.7	7.0	6.3	6.7	6.0
PST-2CB	6.0	2.3	6.3	8.3	5.0	6.7	6.0	5.8
PEGASUS	5.0	1.7	5.7	8.0	7.0	7.0	6.0	5.8
WIND DANCE (MB 46)	6.3	2.3	4.0	8.7	5.0	7.0	7.0	5.8
QUICKSTART	6.0	1.7	5.7	8.0	6.3	7.0	4.7	5.6
STARDANCE (PST-2FE)	6.3	2.3	5.3	8.7	5.0	6.7	5.0	5.6
EXCEL (MB 1-5)	4.7	1.7	2.7	9.0	6.3	7.3	6.7	5.5
DSV NA 9402	4.7	1.3	6.0	7.0	6.7	6.7	5.7	5.4
FIGARO	4.0	1.3	6.0	7.7	6.0	6.7	6.3	5.4
DSV NA 9401	4.0	1.0	6.3	7.0	5.7	6.7	6.0	5.2
DLP 1305	3.3	1.0	4.7	8.7	7.0	6.3	5.7	5.2
PENNFINE	3.3	1.0	5.0	7.3	6.0	6.7	5.7	5.0
LINN	2.0	1.0	1.7	5.0	6.3	5.7	4.3	3.7
LSD VALUE	1.8	0.8	2.0	0.9	2.2	1.0	1.1	0.6
CV (%)	18.9	23.6	17.5	6.5	20.7	9.2	10.6	15.0

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 10.

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA

## PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	GA1	MO3	OK1	MEAN	NAME	GA1	MO3	OK1	MEAN
LINE DRIVE (MB 47)	71.7	99.0	98.3	89.7	ACADEMY (PC-93-1)	65.0	94.7	99.0	86.2
PRIZM	71.7	99.0	98.0	89.6	CADDIESHACK (MED 5071)	63.3	99.0	96.3	86.2
ROADRUNNER (PST-2ET)	71.7	99.0	96.7	89.1	NIGHT HAWK	68.3	91.3	98.7	86.1
BLACKHAWK (TMI-EXFLP94)	70.0	99.0	98.3	89.1	PST-2CB	70.0	90.0	98.3	86.1
PRECISION	70.0	99.0	98.3	89.1	APR 124	71.7	87.7	98.7	86.0
SR 4200	70.0	99.0	98.3	89.1	STALLION SELECT	60.0	99.0	99.0	86.0
APR 131	68.3	99.0	98.7	88.7	ACCENT	61.7	99.0	96.7	85.8
ASP400 (APR 106)	70.0	97.7	98.3	88.7	OMNI	60.0	99.0	98.3	85.8
SPELL BOUND (WVPB-93-KFK)	68.3	99.0	98.7	88.7	TOP GUN (J-1703)	60.0	99.0	98.3	85.8
VIVID	68.3	99.0	98.7	88.7	ESQUIRE	58.3	99.0	98.7	85.3
DSV NA 9402	71.7	96.0	98.0	88.6	WIZARD (MB 41)	63.3	94.3	98.3	85.3
BUCCANEER II (WVPB 92-4)	66.7	99.0	99.0	88.2	CHAPARRAL (PST-2DLM)	70.0	87.7	98.0	85.2
RIVIERA II	66.7	99.0	99.0	88.2	MANHATTAN 3	68.3	89.7	97.3	85.1
SR 4400 (SRX 4400)	66.7	99.0	98.7	88.1	QUICKSTART	65.0	91.3	98.7	85.0
STALLION SUPREME (PSI-E-1)	66.7	99.0	98.7	88.1	MB 44	66.7	89.3	98.7	84.9
BRIGHTSTAR II (PST-2M3)	68.3	99.0	96.7	88.0	SUNSHINE (PICK LP 102-92)	56.7	99.0	98.7	84.8
SECRETARIAT (RPBD)	66.7	99.0	98.3	88.0	BLAZER III (PICK 928)	60.0	96.0	97.7	84.6
MORNING STAR	66.7	99.0	98.0	87.9	CITATION III (PST-2DGR)	58.3	97.7	97.7	84.6
TOP HAT	66.7	99.0	98.0	87.9	LRF-94-C8	58.3	97.7	97.7	84.6
APR 066	68.3	96.0	99.0	87.8	FIGARO	66.7	91.3	95.3	84.4
SR 4010 (SRX 4010)	68.3	96.0	99.0	87.8	ADVANTAGE	60.0	96.0	97.0	84.3
PALMER III (LRF-94-MPRH)	66.7	99.0	97.3	87.7	MB 45	61.7	92.7	98.3	84.2
WVPB-PR-C-2	66.7	99.0	97.3	87.7	CAS-LP23	66.7	87.7	98.0	84.1
LAREDO	65.0	99.0	98.7	87.6	WX3-93	55.0	99.0	98.3	84.1
SONATA (PST-2R3)	66.7	99.0	96.7	87.4	ELF	60.0	99.0	98.7	83.9
BRIGHTSTAR	65.0	99.0	98.0	87.3	HEAD START (PICK PR 84-91)	56.7	96.0	98.3	83.7
REPELL III (LRF-94-C7)	65.0	99.0	98.0	87.3	LEGACY II (LESCO-TWF)	63.3	89.7	98.0	83.7
ASSURE	63.3	99.0	99.0	87.1	PENNANT II (MB 42)	60.0	92.7	98.3	83.7
CUTTER	63.3	99.0	99.0	87.1	DSV NA 9401	66.7	85.0	99.0	83.6
EDGE	63.3	99.0	99.0	87.1	NAVAJO	63.3	91.0	95.0	83.1
OMEGA3 (ZPS-2DR-94)	65.0	97.7	98.7	87.1	KOOS 93-6	65.0	86.0	98.3	83.1
PANTHER (ZPS-PR1)	63.3	99.0	99.0	87.1	SATURN	65.0	86.0	97.7	82.9
WX3-91	63.3	99.0	99.0	87.1	DANCER	60.0	93.0	94.7	82.6
NOBILITY	63.3	99.0	98.7	87.0	MARDIGRAS (ZPS-2NV)	56.7	92.7	97.7	82.3
PREMIER II (BAR USA 94-II)	63.3	99.0	98.7	87.0	ACHIEVER	63.3	82.7	99.0	81.7
PS-D-9	63.3	99.0	98.7	87.0	IMAGINE	60.0	86.0	98.0	81.3
MAJESTY (MB 43)	63.3	99.0	98.3	86.9	SATURN II (ZPS-2ST)	61.7	82.7	98.7	81.0
MVF-4-1	65.0	97.7	98.0	86.9	PEGASUS	61.7	80.0	98.3	80.0
CALYPSO II	63.3	99.0	98.0	86.8	DIVINE	61.7	76.0	98.7	78.8
R2 (ISI-R2)	66.7	96.0	97.7	86.8	WIND DANCE (MB 46)	68.3	69.7	96.3	78.1
CATALINA (PST-GH-94)	68.3	94.3	97.7	86.8	STARDANCE (PST-2FE)	60.0	74.7	96.3	77.0
PROTOCOL (KOOS 93-3)	65.0	96.0	98.7	86.6	BAR ER 5813	66.7	60.0	99.0	75.2
WIND STAR (PST-28M)	63.3	99.0	97.3	86.6	EXCEL (MB 1-5)	56.7	70.0	97.3	74.7
EXPRESS	61.7	99.0	99.0	86.6	PENNFINE	58.3	68.3	97.3	74.7
PASSPORT (PST-2FF)	61.7	99.0	99.0	86.6	DLP 1305	58.3	38.3	96.3	64.3
WILLIAMSBURG	61.7	99.0	99.0	86.6	LINN	60.0	31.7	93.0	61.6
MONTEREY (J-1706)	63.3	99.0	97.0	86.4					
NINE-O-ONE	63.3	99.0	97.0	86.4	LSL VALUE	11.4	19.0	2.6	7.4
ISI-MHB	61.7	99.0	98.3	86.3					
PRELUDE III (LRF-94-B6)	61.7	99.0	98.3	86.3	CV (%)	11.0	12.7	1.6	9.4

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.

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA

## PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	GA1	ME1	MO3	OK1	MEAN	NAME	GA1	ME1	MO3	OK1	MEAN
BUCCANEER II (WVPB 92-4)	65.0	85.0	91.7	81.3	80.8	WX3-91	50.0	38.3	88.3	86.7	65.8
ASSURE	63.3	63.3	89.7	90.0	76.6	LRF-94-C8	43.3	56.7	95.0	68.3	65.8
TOP HAT	60.0	61.7	94.7	88.0	76.1	CADDIESHACK (MED 5071)	56.7	23.3	93.0	89.7	65.7
VIVID	63.3	46.7	97.7	94.7	75.6	OMNI	48.3	51.7	91.3	71.3	65.7
PALMER III (LRF-94-MPRH)	70.0	58.3	96.3	76.7	75.3	NIGHT HAWK	60.0	39.0	85.0	78.0	65.5
ACADEMY (PC-93-1)	56.7	58.3	89.7	94.7	74.8	CHAPARRAL (PST-2DLM)	65.0	55.0	78.3	63.3	65.4
WILLIAMSBURG	63.3	43.3	97.7	94.7	74.8	BLACKHAWK (TMI-EXFLP94)	60.0	6.7	97.7	96.0	65.1
FIGARO	63.3	63.3	81.7	85.0	73.3	IMAGINE	53.3	50.0	84.7	71.7	64.9
PROTOCOL (KOOS 93-3)	70.0	65.0	85.0	73.3	73.3	MANHATTAN 3	63.3	28.3	85.0	81.3	64.5
PRELUDE III (LRF-94-B6)	43.3	76.7	91.3	81.7	73.3	BLAZER III (PICK 928)	53.3	43.3	88.3	71.7	64.2
STALLION SUPREME (PSI-E-1)	61.7	43.3	96.3	91.3	73.2	DIVINE	66.7	45.0	65.0	80.0	64.2
REPELL III (LRF-94-C7)	53.3	70.0	90.0	76.7	72.5	NINE-O-ONE	63.3	28.3	83.3	81.7	64.2
R2 (ISI-R2)	60.0	60.0	86.3	83.3	72.4	WIND STAR (PST-28M)	56.7	35.0	88.3	76.7	64.2
ADVANTAGE	56.7	58.3	90.0	81.7	71.7	CUTTER	53.3	31.7	88.3	83.3	64.2
APR 066	63.3	45.0	91.7	86.3	71.6	MB 45	60.0	41.7	89.3	65.0	64.0
ESQUIRE	60.0	41.7	90.0	94.7	71.6	PREMIER II (BAR USA 94-II)	56.7	35.0	91.3	71.7	63.7
WIZARD (MB 41)	63.3	51.7	92.7	78.3	71.5	APR 124	68.3	26.7	75.0	83.3	63.3
SR 4400 (SRX 4400)	70.0	33.3	94.7	87.7	71.4	WX3-93	53.3	18.3	91.3	88.0	62.8
HEAD START (PICK PR 84-91)	50.0	68.3	91.7	74.7	71.2	ROADRUNNER (PST-2ET)	53.3	23.3	94.7	78.3	62.4
OMEGA3 (ZPS-2DR-94)	66.7	33.3	88.3	94.7	70.8	BAR ER 5813	66.7	33.3	53.3	96.0	62.3
BRIGHTSTAR II (EST-2M3)	66.7	51.7	93.3	70.0	70.4	CITATION III (PST-2DGR)	46.7	33.3	94.3	75.0	62.3
CAS-LP23	60.0	70.0	81.7	70.0	70.4	LINE DRIVE (MB 47)	71.7	3.3	97.7	76.3	62.3
ISI-MHB	56.7	41.7	96.3	85.7	70.1	ELF	60.0	40.0	83.3	63.3	61.7
TOP GUN (J-1703)	56.7	38.3	99.0	84.7	69.7	CALYPSO II	56.7	18.3	93.0	78.3	61.6
KOOS 93-6	70.0	58.3	76.7	73.3	69.6	LEGACY II (LESCO-TWF)	50.0	31.7	75.0	88.3	61.3
SPELL BOUND (WVEB-93-KFK)	70.0	23.3	90.0	94.7	69.5	SR 4010 (SRX 4010)	56.7	11.7	88.3	88.3	61.3
EDGE	60.0	35.0	99.0	83.3	69.3	SONATA (PST-2R3)	70.0	43.3	91.3	40.0	61.2
RIVIERA II	66.7	36.7	91.7	82.0	69.3	NAVAJO	56.7	33.3	86.3	66.7	60.8
SR 4200	61.7	36.7	93.3	85.0	69.2	SATURN II (ZPS-2ST)	56.7	13.3	83.0	89.7	60.7
NOBILITY	65.0	30.0	96.0	85.0	69.0	MB 44	56.7	18.3	79.7	85.0	59.9
MORNING STAR	56.7	38.3	94.7	84.7	68.6	MAJESTY (MB 43)	53.3	25.0	93.3	66.7	59.6
PS-D-9	66.7	28.3	97.7	81.7	68.6	DANCER	50.0	20.0	85.0	83.3	59.6
APR 131	70.0	15.0	93.0	95.3	68.3	PENNFINE	56.7	28.3	61.7	88.3	58.8
CATALINA (PST-GH-94)	63.3	43.3	94.7	71.7	68.3	DSV NA 9402	60.0	18.3	89.7	66.7	58.7
PANTHER (ZPS-PR1)	50.0	46.7	96.3	80.0	68.3	QUICKSTART	63.3	1.7	91.7	76.3	58.3
ACHIEVER	63.3	36.7	79.7	93.0	68.2	PEGASUS	56.7	23.3	68.3	81.7	57.5
BRIGHTSTAR	63.3	35.0	93.0	80.0	67.8	PST-2CB	66.7	25.0	78.3	58.3	57.1
WVPB-PR-C-2	63.3	23.3	96.3	88.3	67.8	MONTEREY (J-1706)	56.7	10.0	94.7	65.0	56.6
LAREDO	60.0	40.0	86.3	83.0	67.3	PENNANT II (MB 42)	55.0	30.0	88.0	50.0	55.8
PRIZM	70.0	26.7	96.3	75.0	67.0	PASSPORT (PST-2FF)	53.3	6.7	93.3	68.3	55.4
STALLION SELECT	53.3	38.3	92.7	83.7	67.0	DSV NA 9401	51.7	12.3	75.0	70.0	52.3
SATURN	50.0	53.3	78.3	85.0	66.7	STARDANCE (PST-2FE)	60.0	41.7	56.7	50.0	52.1
SECRETARIAT (RPBD)	60.0	53.3	88.3	65.0	66.7	DLP 1305	56.7	36.7	23.3	86.3	50.8
MVF-4-1	61.7	25.0	94.7	85.0	66.6	EXCEL (MB 1-5)	50.0	20.0	55.0	73.0	49.5
ACCENT	53.3	30.0	88.0	94.7	66.5	LINN	50.0	36.7	20.0	73.3	45.0
EXPRESS	60.0	28.3	88.3	88.3	66.3	WIND DANCE (MB 46)	56.7	10.0	51.7	58.3	44.2
PRECISION	60.0	36.7	90.0	78.3	66.3						
MARDIGRAS (ZPS-2NV)	56.7	50.0	87.7	70.0	66.1	LSD VALUE	16.4	47.6	23.0	24.1	15.1
SUNSHINE (PICK IP 102-92)	56.7	36.7	96.0	75.0	66.1						
ASP400 (APR 106)	66.7	20.0	96.0	81.3	66.0	CV (%)	17.2	80.0	16.6	18.9	28.7

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

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

TABLE 12.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA  
PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AR1	GA1	MO3	OK1	MEAN	NAME	AR1	GA1	MO3	OK1	MEAN
NOBILITY	90.0	33.3	97.7	96.3	79.3	QUICKSTART	86.3	26.7	91.3	88.0	73.1
SPELL BOUND (WVFB-93-KFK)	95.0	25.0	99.0	97.7	79.2	WILLIAMSBURG	68.3	25.0	99.0	99.0	72.8
TOP HAT	89.7	31.7	97.7	97.7	79.2	KOOS 93-6	86.7	28.3	84.3	91.3	72.7
VIVID	86.7	33.3	99.0	97.7	79.2	BLAZER III (PICK 928)	85.0	25.0	91.3	88.0	72.3
STALLION SUPREME (PSI-E-1)	96.3	26.7	99.0	94.3	79.1	PASSPORT (PST-2FF)	86.7	21.7	96.3	83.0	71.9
MORNING STAR	85.0	35.0	97.7	97.7	78.8	SATURN	90.0	15.0	86.3	96.3	71.9
EDGE	88.3	31.7	99.0	94.7	78.4	PEGASUS	86.7	23.3	78.3	99.0	71.8
SR 4400 (SRX 4400)	93.3	28.3	96.0	96.0	78.4	SUNSHINE (PICK LP 102-92)	70.0	28.3	97.7	91.3	71.8
LINE DRIVE (MB 47)	85.0	35.0	99.0	94.3	78.3	DSV NA 9402	90.0	8.3	97.7	89.7	71.4
MVF-4-1	91.7	28.3	96.0	96.3	78.1	WX3-93	63.3	28.3	99.0	94.3	71.3
ACCENT	85.0	30.0	97.7	99.0	77.9	NIGHT HAWK	88.3	13.3	88.3	94.3	71.1
SR 4200	85.0	31.7	99.0	96.0	77.9	OMNI	66.7	31.7	97.7	88.0	71.0
BRIGHTSTAR II (EST-2M3)	86.7	33.3	99.0	91.3	77.6	PALMER III (LRF-94-MPRH)	63.3	30.0	99.0	91.7	71.0
MAJESTY (MB 43)	91.7	31.7	99.0	86.7	77.3	ADVANTAGE	66.7	30.0	92.7	94.3	70.9
CUTTER	83.3	30.0	97.7	97.7	77.2	PANTHER (ZPS-PR1)	70.0	23.3	99.0	91.3	70.9
ACADEMY (PC-93-1)	93.3	23.3	93.0	99.0	77.2	CITATION III (PST-2DGR)	71.7	31.7	96.0	83.0	70.6
ROADRUNNER (PST-2ET)	83.3	30.0	99.0	96.3	77.2	OMEGA3 (ZPS-2DR-94)	58.3	28.3	96.3	99.0	70.5
STALLION SELECT	86.7	25.0	97.7	99.0	77.1	HEAD START (PICK PR 84-91)	70.0	28.3	91.7	91.0	70.3
BUCCANEER II (WVFB 92-4)	83.0	33.3	97.7	94.3	77.1	MARDIGRAS (ZPS-2NV)	75.0	26.7	89.3	89.7	70.2
RIVIERA II	88.3	36.7	96.3	86.3	76.9	FIGARO	81.7	11.7	93.3	93.0	69.9
SECRETARIAT (RPED)	94.7	30.0	94.7	88.0	76.8	DANCER	80.0	16.7	94.7	86.3	69.4
ASSURE	90.0	28.3	93.0	96.0	76.8	MANHATTAN 3	75.0	31.7	79.7	91.3	69.4
PRELUDE III (LRF-94-B6)	93.0	26.7	96.0	91.0	76.7	PST-2CB	81.7	28.3	81.7	85.0	69.2
ACHIEVER	85.0	36.7	86.0	99.0	76.7	WX3-91	50.0	30.0	96.3	97.7	68.5
ESQUIRE	80.0	30.0	96.3	99.0	76.3	DSV NA 9401	83.3	10.0	90.0	88.0	67.8
LRF-94-C8	88.0	25.0	99.0	93.0	76.3	IMAGINE	73.3	25.0	83.0	88.0	67.3
PS-D-9	83.3	26.7	99.0	96.0	76.3	MB 45	68.3	28.3	91.0	81.7	67.3
PREMIER II (BAR USA 94-II)	90.0	28.3	96.3	89.7	76.1	BAR ER 5813	85.0	20.0	63.3	97.7	66.5
BRIGHTSTAR	81.7	31.7	96.3	94.3	76.0	LAREDO	43.3	30.0	99.0	92.7	66.3
ISI-MHB	76.7	31.7	99.0	96.3	75.9	APR 131	45.3	23.3	96.0	97.7	65.6
CADDIESHACK (MED 5071)	83.3	26.7	99.0	94.3	75.8	CHAPARRAL (PST-2DLM)	70.0	33.3	71.7	86.7	65.4
PRIZM	73.3	38.3	99.0	92.7	75.8	DIVINE	56.7	35.0	73.0	94.7	64.8
MB 44	90.0	33.3	84.3	94.7	75.6	NAVAJO	53.3	26.7	94.3	84.7	64.8
WIND STAR (PST-28M)	83.3	30.0	97.7	91.3	75.6	APR 066	43.3	26.7	99.0	89.3	64.6
BLACKHAWK (TMI-EXFLP94)	85.0	23.3	96.0	97.7	75.5	APR 124	58.3	20.0	81.3	93.0	63.2
CALYPSO II	83.3	26.7	99.0	93.0	75.5	LEGACY II (LESCO-TWF)	50.0	26.7	80.0	94.3	62.8
SR 4010 (SRX 4010)	84.7	28.3	93.0	96.0	75.5	PRECISION	40.0	25.0	96.0	89.7	62.7
TOP GUN (J-1703)	85.0	28.3	99.0	89.7	75.5	WIND DANCE (MB 46)	76.7	33.3	56.3	80.0	61.6
CAS-LP23	91.7	26.7	88.0	94.7	75.3	STARDANCE (PST-2FE)	81.7	18.3	68.0	78.3	61.6
R2 (ISI-R2)	86.7	28.3	94.3	91.3	75.2	ASP400 (APR 106)	40.0	28.3	99.0	77.7	61.3
WIZARD (MB 41)	86.3	30.0	92.7	91.3	75.1	EXCEL (MB 1-5)	71.7	16.7	61.7	89.7	59.9
EXPRESS	75.0	31.7	99.0	94.3	75.0	MONTEREY (J-1706)	43.3	30.0	97.7	63.3	58.6
PROTOCOL (KOOS 93-3)	91.7	26.7	91.7	89.7	74.9	ELF	43.3	10.0	94.7	85.0	58.3
NINE-O-ONE	80.0	26.7	96.3	96.0	74.8	PENNFINE	60.0	10.0	68.3	94.7	58.3
WVPB-PR-C-2	86.7	20.0	99.0	93.0	74.7	DLP 1305	18.3	6.7	33.3	97.7	39.0
SONATA (PST-2R3)	90.0	38.3	97.7	71.7	74.4	LINN	16.7	13.3	25.0	91.3	36.6
REPELL III (LRF-94-C7)	83.3	25.0	97.7	91.3	74.3						
SATURN II (ZPS-2ST)	83.3	30.0	87.7	94.3	73.8	LSD VALUE	32.3	15.6	21.9	16.0	11.2
CATALINA (PST-GH-94)	85.0	35.0	84.7	90.0	73.7						
PENNANT II (MB 42)	83.3	31.7	93.0	86.3	73.6	CV (%)	26.2	36.1	15.0	10.8	19.5

- 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. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA

DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1997 DATA

NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/					NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE				
	NJ1	OK1	PA1	UB2	MEAN		NJ1	OK1	PA1	UB2	MEAN
WIND STAR (PST-28M)	8.0	8.3	8.0	8.0	8.1	SATURN II (ZPS-2ST)	5.0	8.3	7.3	7.0	6.9
ACCENT	7.3	9.0	8.0	7.7	8.0	WVPB-PR-C-2	4.3	7.7	8.3	7.3	6.9
ACHIEVER	7.0	9.0	8.3	7.7	8.0	WX3-93	4.3	8.3	8.7	6.3	6.9
LAREDO	6.3	9.0	8.7	8.0	8.0	LRF-94-C8	5.0	8.7	7.7	6.3	6.9
MANHATTAN 3	7.7	9.0	8.0	7.3	8.0	PRIZM	5.7	8.7	8.3	5.0	6.9
CADDIESHACK (MED 5071)	7.7	9.0	8.7	6.3	7.9	TOP HAT	6.0	8.7	7.7	5.3	6.9
ROADRUNNER (PST-2ET)	7.3	8.7	8.3	7.3	7.9	NINE-O-ONE	5.3	6.7	9.0	6.5	6.9
SONATA (PST-2R3)	8.3	7.3	8.3	7.7	7.9	MORNING STAR	5.3	6.7	8.3	7.0	6.8
CALYPSO II	7.3	8.7	8.7	7.0	7.9	AER 131	4.0	8.0	8.7	6.7	6.8
R2 (ISI-R2)	7.0	8.7	8.7	7.3	7.9	DIVINE	5.0	7.3	8.7	6.3	6.8
APR 066	7.7	8.7	8.0	7.0	7.8	OMEGA3 (ZPS-2DR-94)	6.0	8.0	8.0	5.3	6.8
CUTTER	6.7	8.7	8.7	7.3	7.8	SECRETARIAT (RPBD)	6.0	8.0	8.0	5.3	6.8
EDGE	7.0	8.3	7.7	8.0	7.8	SELL BOUND (WVPB-93-KFK)	4.3	9.0	8.3	5.7	6.8
PASSPORT (PST-2FF)	6.3	8.3	9.0	7.0	7.7	DLP 1305	5.7	8.0	6.7	.	6.8
ACADEMY (PC-93-1)	6.0	9.0	8.7	7.0	7.7	ADVANTAGE	6.0	6.3	8.7	6.0	6.8
BLACKHAWK (TMI-EXFLP94)	5.3	8.7	8.7	8.0	7.7	CITATION III (PST-2DGR)	6.0	8.0	7.0	6.0	6.8
MONTEREY (J-1706)	7.0	8.0	8.7	7.0	7.7	REPELL III (LRF-94-C7)	6.7	7.7	7.3	5.3	6.8
PROTOCOL (KOOS 93-3)	6.0	8.7	8.7	7.3	7.7	SATURN	4.7	7.0	9.0	6.3	6.8
PANTHER (ZPS-PR1)	6.7	7.7	8.0	8.0	7.6	BLAZER III (PICK 928)	5.3	8.3	7.7	5.3	6.7
TOP GUN (J-1703)	6.3	8.3	8.7	7.0	7.6	LINN	5.0	7.0	8.0	.	6.7
CATALINA (PST-GH-94)	8.0	6.3	8.7	7.0	7.5	SR 4010 (SRX 4010)	5.0	7.0	8.3	6.3	6.7
KOOS 93-6	6.3	8.3	8.3	7.0	7.5	WILLIAMSBURG	5.3	7.3	7.3	6.7	6.7
QUICKSTART	5.7	8.0	8.3	8.0	7.5	NOBILITY	5.0	6.7	8.7	6.0	6.6
VIVID	6.7	8.3	8.0	7.0	7.5	DSV NA 9402	5.0	8.0	7.3	6.0	6.6
EXPRESS	6.3	8.3	8.7	6.5	7.5	LINE DRIVE (MB 47)	5.7	8.3	7.3	5.0	6.6
APR 124	7.0	8.3	7.7	6.7	7.4	PRELUDE III (LRF-94-B6)	5.0	7.0	8.3	5.7	6.5
MARDIGRAS (ZPS-2NV)	5.0	8.3	9.0	7.3	7.4	CAS-LP23	4.7	7.7	8.7	5.0	6.5
PRECISION	6.3	8.0	8.0	7.3	7.4	PALMER III (LRF-94-MPRH)	5.0	8.3	7.7	5.0	6.5
CHAPARRAL (PST-2DLM)	6.7	8.0	7.7	7.0	7.3	DSV NA 9401	4.3	7.3	7.3	6.7	6.4
WIZARD (MB 41)	5.7	8.0	8.7	7.0	7.3	STALLION SELECT	4.3	7.7	7.0	6.7	6.4
BRIGHTSTAR II (PST-2M3)	6.0	8.3	7.7	7.3	7.3	FIGARO	3.0	8.3	6.0	8.0	6.3
PREMIER II (BAR USA 94-II)	6.3	8.0	7.7	7.3	7.3	MAJESTY (MB 43)	6.0	6.7	8.0	4.7	6.3
SR 4400 (SRX 4400)	5.0	8.7	9.0	6.7	7.3	DANCER	4.0	7.3	8.0	6.0	6.3
BRIGHTSTAR	5.3	8.7	9.0	6.0	7.3	PENNFINE	5.3	5.7	8.0	.	6.3
MVF-4-1	7.0	7.7	6.3	8.0	7.3	STARDANCE (PST-2FE)	6.0	7.7	5.3	6.3	6.3
STALLION SUPREME (PSI-E-1)	6.3	8.7	7.7	6.3	7.3	ASSURE	4.3	8.0	7.3	5.3	6.3
SUNSHINE (PICK LP 102-92)	5.7	8.0	8.3	7.0	7.3	BAR ER 5813	4.0	7.3	7.3	6.3	6.3
ESQUIRE	6.7	8.3	8.3	5.5	7.2	PST-2CB	4.7	6.0	8.0	6.0	6.2
RIVIERA II	5.0	8.0	8.0	7.7	7.2	ISI-MHB	6.0	6.0	7.3	5.3	6.2
LEGACY II (LESCO-TWF)	7.3	6.7	8.7	6.0	7.2	MB 45	4.3	7.3	8.0	5.0	6.2
WX3-91	6.0	7.3	8.3	7.0	7.2	PEGASUS	4.0	6.3	7.3	6.7	6.1
ASP400 (APR 106)	6.7	8.3	6.3	7.0	7.1	MB 44	3.7	7.0	9.0	4.3	6.0
HEAD START (PICK PR 84-91)	5.3	8.0	9.0	6.0	7.1	IMAGINE	4.0	5.7	7.7	4.7	5.5
PS-D-9	6.0	6.7	8.3	7.3	7.1	EXCEL (MB 1-5)	2.7	8.0	8.0	3.3	5.5
SR 4200	6.3	6.7	8.0	7.3	7.1	NIGHT HAWK	3.3	7.0	7.7	3.7	5.4
WIND DANCE (MB 46)	6.0	6.7	8.7	6.7	7.0	ELF	4.7	6.3	6.0	4.0	5.3
BUCCANEER II (WVPB 92-4)	5.7	8.3	8.0	6.0	7.0						
OMNI	5.7	7.7	8.7	6.0	7.0	LSD VALUE	2.4	1.8	1.9	2.3	1.1
NAVAJO	4.7	8.3	8.3	6.3	6.9						
PENNANT II (MB 42)	5.3	8.0	7.7	6.7	6.9	CV (%)	26.0	14.2	14.7	21.9	18.6

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

TABLE 14. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1997 DATA

NAME	RED THREAD SPOT RATINGS 1-9; 9=NO DISEASE 2/					NAME	RED THREAD SPOT RATINGS 1-9; 9=NO DISEASE				
	IN1	NJ1	PA1	UB1	MEAN		IN1	NJ1	PA1	UB1	MEAN
PRIZM	8.0	4.7	6.7	7.7	6.8	DSV NA 9401	6.0	4.3	6.7	5.7	5.7
SR 4400 (SRX 4400)	7.3	6.0	6.7	7.0	6.8	SPELL BOUND (WVPB-93-KFK)	4.7	5.0	6.0	7.0	5.7
TOP GUN (J-1703)	7.3	6.3	5.7	7.7	6.8	WX3-91	5.3	4.7	5.7	7.0	5.7
PRELUDE III (LRF-94-B6)	8.0	4.0	7.0	7.7	6.7	ASP400 (APR 106)	5.3	4.0	5.0	8.3	5.7
KOOS 93-6	6.3	5.7	6.7	7.7	6.6	QUICKSTART	5.7	4.7	5.0	7.0	5.6
EDGE	7.0	6.3	5.7	7.3	6.6	SECRETARIAT (RPBD)	3.0	5.7	5.7	8.0	5.6
LINN	8.7	4.7	6.0	7.0	6.6	BRIGHTSTAR	5.3	4.0	5.7	7.3	5.6
PENNFINE	7.0	5.3	7.0	7.0	6.6	CHAPARRAL (PST-2DLM)	7.7	2.3	7.0	5.3	5.6
ACCENT	7.0	6.3	5.0	7.7	6.5	LRF-94-C8	7.3	3.3	4.3	7.3	5.6
PS-D-9	6.7	6.3	5.7	7.3	6.5	SUNSHINE (PICK LP 102-92)	5.3	4.0	6.0	7.0	5.6
ESQUIRE	5.7	5.3	7.0	7.7	6.4	TOP HAT	4.3	5.3	6.0	6.7	5.6
HEAD START (PICK PR 84-91)	7.0	5.0	6.0	7.7	6.4	PREMIER II (BAR USA 94-II)	5.7	5.0	4.7	6.7	5.5
MANHATTAN 3	5.7	5.7	6.7	7.7	6.4	APR 066	5.7	3.3	6.0	7.0	5.5
STALLION SUPREME (PSI-E-1)	6.3	5.3	6.3	7.7	6.4	EXCEL (MB 1-5)	5.0	2.3	7.0	7.7	5.5
ASSURE	6.3	5.3	6.0	8.0	6.4	PST-2CB	4.0	4.0	6.3	7.7	5.5
CUTTER	7.3	5.3	5.0	8.0	6.4	SR 4200	5.7	5.7	4.3	6.3	5.5
MONTEREY (J-1706)	7.3	4.7	6.7	6.7	6.3	PEGASUS	5.0	4.7	5.0	7.0	5.4
NOBILITY	6.0	6.3	5.3	7.7	6.3	ROADRUNNER (PST-2ET)	5.0	4.3	5.7	6.7	5.4
OMEGA3 (ZPS-2DR-94)	7.0	3.7	6.7	8.0	6.3	SONATA (PST-2R3)	3.7	4.3	6.7	7.0	5.4
PROTOCOL (KOOS 93-3)	5.0	5.3	7.3	7.7	6.3	STALLION SELECT	5.3	6.0	4.0	6.3	5.4
ACHIEVER	6.0	5.0	6.3	7.7	6.3	MARDIGRAS (ZPS-2NV)	4.7	4.0	6.0	6.7	5.3
CADDIESHACK (MED 5071)	7.0	5.0	5.0	8.0	6.3	CATALINA (PST-GH-94)	3.7	4.0	6.7	7.0	5.3
EXPRESS	5.3	5.3	6.7	7.7	6.3	DIVINE	5.0	4.3	4.7	7.3	5.3
NINE-O-ONE	6.0	6.0	6.3	6.7	6.3	ISI-MHB	4.3	5.0	5.0	7.0	5.3
OMNI	5.7	5.3	6.7	7.3	6.3	PANTHER (ZPS-PR1)	3.3	5.7	5.0	7.3	5.3
APR 131	5.3	5.3	7.0	7.3	6.3	PASSPORT (PST-2FF)	4.0	3.0	7.3	7.0	5.3
MVF-4-1	6.0	5.3	6.3	7.0	6.2	SR 4010 (SRX 4010)	5.0	4.7	5.3	6.3	5.3
WIND STAR (PST-28M)	7.0	6.0	4.7	6.7	6.1	VIVID	3.7	4.7	5.7	7.3	5.3
BLACKHAWK (TMI-EXFLP94)	6.0	4.7	6.3	7.3	6.1	NIGHT HAWK	4.7	4.3	5.0	7.0	5.3
BUCCANEER II (WBPB 92-4)	5.0	6.0	6.0	7.0	6.0	WIZARD (MB 41)	5.0	4.3	4.7	7.0	5.3
MORNING STAR	5.0	6.7	6.3	6.0	6.0	WVPB-PR-C-2	4.3	4.3	5.3	7.0	5.3
APR 124	5.3	5.3	6.3	6.7	5.9	CITATION III (PST-2DGR)	3.7	3.3	5.7	7.7	5.1
ELF	5.0	4.7	6.7	7.3	5.9	RIVIERA II	4.0	4.7	4.7	6.7	5.0
LAREDO	4.3	5.7	6.7	7.0	5.9	ACADEMY (PC-93-1)	3.7	4.3	5.3	6.7	5.0
STARDANCE (PST-2FE)	6.7	4.3	5.0	7.7	5.9	MAJESTY (MB 43)	3.0	4.7	5.0	7.3	5.0
NAVAJO	7.0	4.3	6.0	6.3	5.9	SATURN II (ZPS-2ST)	5.0	3.0	4.0	7.7	4.9
PRECISION	4.3	6.3	6.0	7.0	5.9	MB 45	3.0	3.7	6.0	7.0	4.9
WILLIAMSBURG	6.0	4.3	6.3	7.0	5.9	BAR ER 5813	5.0	3.0	4.7	6.7	4.8
BLAZER III (PICK 928)	5.0	4.0	6.7	7.7	5.8	PALMER III (LRF-94-MPRH)	3.0	4.7	4.7	7.0	4.8
CALYPSO II	4.0	5.7	6.0	7.7	5.8	CAS-LP23	3.3	4.0	5.7	6.3	4.8
DANCER	5.0	5.7	5.3	7.3	5.8	IMAGINE	4.3	3.0	5.3	6.3	4.8
FIGARO	4.3	5.7	6.3	7.0	5.8	WIND DANCE (MB 46)	3.3	3.3	5.7	6.3	4.7
LINE DRIVE (MB 47)	5.0	5.0	6.3	7.0	5.8	PENNANT II (MB 42)	3.3	3.7	4.3	7.3	4.7
REPELL III (LRF-94-C7)	6.7	5.0	5.3	6.3	5.8	LEGACY II (LESCO-TWF)	2.7	3.7	5.7	6.3	4.6
SATURN	6.0	5.0	5.3	7.0	5.8	MB 44	3.3	2.7	5.3	7.0	4.6
WX3-93	5.3	4.7	6.0	7.3	5.8	ADVANTAGE	3.3	3.7	4.0	6.7	4.4
DLP 1305	5.0	5.0	6.0	7.0	5.8						
DSV NA 9402	6.7	5.3	5.3	5.7	5.8	LSV VALUE	3.7	1.9	2.1	1.2	1.2
R2 (ISI-R2)	4.7	5.3	5.3	7.7	5.8						
BRIGHTSTAR II (PST-2M3)	6.3	2.7	6.7	7.0	5.7	CV (%)	43.5	24.9	22.4	10.9	26.2

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

TABLE 15.

 BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 1997 DATA  
 BROWN PATCH SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NE1	VA1	MEAN	NAME	NE1	VA1	MEAN
NOBILITY	7.3	8.3	7.8	SONATA (PST-2R3)	6.3	7.3	6.8
BLAZER III (PICK 928)	7.0	8.7	7.8	STARDANCE (PST-2FE)	6.3	7.3	6.8
PALMER III (LRF-94-MPRH)	7.0	8.7	7.8	ACADEMY (PC-93-1)	5.7	7.7	6.7
QUICKSTART	6.7	8.7	7.7	ASSURE	5.7	7.7	6.7
SECRETARIAT (RPBD)	7.3	8.0	7.7	EDGE	5.0	8.3	6.7
ACCENT	6.3	8.7	7.5	HENNANT II (MB 42)	6.7	6.7	6.7
MANHATTAN 3	7.3	7.7	7.5	PRECISION	5.7	7.7	6.7
MONTEREY (J-1706)	6.7	8.3	7.5	APR 124	5.3	8.0	6.7
OMEGA3 (ZPS-2DR-94)	7.3	7.7	7.5	ASP400 (APR 106)	5.3	8.0	6.7
SATURN II (ZPS-2ST)	7.0	8.0	7.5	CATALINA (PST-GH-94)	6.3	7.0	6.7
SR 4400 (SRX 4400)	6.3	8.7	7.5	KOOS 93-6	6.0	7.3	6.7
ELF	7.0	7.7	7.3	PASSPORT (PST-2FF)	6.0	7.3	6.7
ISI-MHB	6.7	8.0	7.3	HENNFINE	4.7	8.7	6.7
LAREDO	7.0	7.7	7.3	PROTOCOL (KOOS 93-3)	6.0	7.3	6.7
LRF-94-C8	6.7	8.0	7.3	TOP GUN (J-1703)	4.7	8.7	6.7
MORNING STAR	5.7	9.0	7.3	ADVANTAGE	6.3	6.7	6.5
PRELUDE III (LRF-94-B6)	6.7	8.0	7.3	APR 131	5.3	7.7	6.5
PST-2CB	6.3	8.3	7.3	BLACKHAWK (TMI-EXFLP94)	5.7	7.3	6.5
ACHIEVER	6.0	8.3	7.2	DIVINE	6.0	7.0	6.5
EXPRESS	6.0	8.3	7.2	PREMIER II (BAR USA 94-II)	5.3	7.7	6.5
PANTHER (ZPS-PR1)	6.7	7.7	7.2	REPELL III (LRF-94-C7)	5.7	7.3	6.5
SUNSHINE (PICK LP 102-92)	6.7	7.7	7.2	SPELL BOUND (WVPB-93-KFK)	5.3	7.7	6.5
TOP HAT	6.0	8.3	7.2	SR 4010 (SRX 4010)	5.3	7.7	6.5
WX3-91	6.7	7.7	7.2	STALLION SELECT	5.7	7.3	6.5
BRIGHTSTAR	6.3	8.0	7.2	STALLION SUPREME (PSI-E-1)	5.3	7.7	6.5
CUTTER	6.3	8.0	7.2	WIND DANCE (MB 46)	7.0	6.0	6.5
R2 (ISI-R2)	5.7	8.7	7.2	DLP 1305	5.0	7.7	6.3
BUCCANEER II (WVPB 92-4)	5.7	8.3	7.0	LEGACY II (LESCO-TWF)	6.0	6.7	6.3
ESQUIRE	6.3	7.7	7.0	NAVAJO	5.0	7.7	6.3
LINE DRIVE (MB 47)	6.0	8.0	7.0	WPB-PR-C-2	5.0	7.7	6.3
MARDIGRAS (ZPS-2NV)	6.3	7.7	7.0	BAR ER 5813	5.3	7.3	6.3
MB 45	7.3	6.7	7.0	BRIGHTSTAR II (PST-2M3)	6.3	6.3	6.3
NINE-O-ONE	6.3	7.7	7.0	DANCER	5.3	7.3	6.3
PEGASUS	6.3	7.7	7.0	NIGHT HAWK	5.3	7.3	6.3
PRIZM	5.7	8.3	7.0	IMAGINE	6.7	5.7	6.2
PS-D-9	5.3	8.7	7.0	CAS-LP23	5.0	7.0	6.0
ROADRUNNER (PST-2ET)	6.3	7.7	7.0	CITATION III (PST-2DGR)	5.7	6.0	5.8
WILLIAMSBURG	6.0	8.0	7.0	MAJESTY (MB 43)	6.0	5.7	5.8
APR 066	6.0	7.7	6.8	OMNI	5.0	6.7	5.8
CADDIESHACK (MED 5071)	6.0	7.7	6.8	EXCEL (MB 1-5)	5.3	6.3	5.8
MB 44	7.0	6.7	6.8	FIGARO	4.3	7.3	5.8
MVF-4-1	5.7	8.0	6.8	WIZARD (MB 41)	5.3	6.0	5.7
RIVIERA II	6.7	7.0	6.8	CHAPARRAL (PST-2DLM)	5.7	5.3	5.5
SATURN	5.3	8.3	6.8	DSV NA 9402	3.7	6.3	5.0
SR 4200	5.7	8.0	6.8	DSV NA 9401	4.0	5.3	4.7
VIVID	5.7	8.0	6.8	LINN	3.0	6.3	4.7
WIND STAR (PST-28M)	5.7	8.0	6.8				
WX3-93	6.7	7.0	6.8	LSD VALUE	1.5	1.5	1.1
CALYPSO II	6.3	7.3	6.8				
HEAD START (PICK PR 84-91)	6.3	7.3	6.8	CV (%)	16.2	12.0	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 16. FUSARIUM BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 1997 DATA  
 FUSARIUM BLIGHT SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	AR1	NAME	AR1
BRIGHTSTAR	8.7	PALMER III (LRF-94-MERH)	7.0
CADDIESHACK (MED 5071)	8.7	PASSPORT (PST-2FF)	7.0
MARDIGRAS (ZPS-2NV)	8.7	PENNFINE	7.0
PRIZM	8.7	PRECISION	7.0
CHAFARRAL (PST-2DLM)	8.3	PROTOCOL (KOOS 93-3)	7.0
ELF	8.3	PS-D-9	7.0
LAREDO	8.3	SECRETARIAT (RPBD)	7.0
MONTEREY (J-1706)	8.3	SPELL BOUND (WVPB-93-KFK)	7.0
CALYPSO II	8.0	SR 4010 (SRX 4010)	7.0
HEAD START (PICK PR 84-91)	8.0	SR 4200	7.0
LRF-94-C8	8.0	VIVID	7.0
PANTHER (ZPS-PR1)	8.0	ASSURE	6.7
PENNANT II (MB 42)	8.0	BAR ER 5813	6.7
RIVIERA II	8.0	BLAZER III (PICK 928)	6.7
ROADRUNNER (PST-2ET)	8.0	CUTTER	6.7
WIND STAR (PST-28M)	8.0	LEGACY II (LESCO-TWF)	6.7
ACCENT	7.7	MAJESTY (MB 43)	6.7
BRIGHTSTAR II (PST-2M3)	7.7	MVF-4-1	6.7
CITATION III (PST-2DGR)	7.7	SATURN	6.7
EDGE	7.7	SONATA (PST-2R3)	6.7
MANHATTAN 3	7.7	SUNSHINE (PICK LP 102-92)	6.7
MORNING STAR	7.7	WIND DANCE (MB 46)	6.7
R2 (ISI-R2)	7.7	WIZARD (MB 41)	6.7
REPELL III (LRF-94-C7)	7.7	ACADEMY (PC-93-1)	6.3
STALLION SELECT	7.7	APR 124	6.3
STARDANCE (PST-2FE)	7.7	NIGHT HAWK	6.3
APR 131	7.3	NINE-O-ONE	6.3
BLACKHAWK (TMI-EXFLP94)	7.3	OMNI	6.3
CATALINA (PST-GH-94)	7.3	PEGASUS	6.3
DLP 1305	7.3	PST-2CB	6.3
ISI-MHB	7.3	WVPB-PR-C-2	6.3
LINE DRIVE (MB 47)	7.3	ADVANTAGE	6.0
NAVAJO	7.3	APR 066	6.0
NOBILITY	7.3	ASP400 (APR 106)	6.0
OMEGA3 (ZPS-2DR-94)	7.3	CAS-LP23	6.0
PRELUDE III (LRF-94-B6)	7.3	ESQUIRE	6.0
PREMIER II (BAR USA 94-II)	7.3	EXCEL (MB 1-5)	6.0
QUICKSTART	7.3	IMAGINE	6.0
SATURN II (ZPS-2ST)	7.3	KOOS 93-6	6.0
SR 4400 (SRX 4400)	7.3	DANCER	5.7
STALLION SUPREME (PSI-E-1)	7.3	DIVINE	5.7
TOP GUN (J-1703)	7.3	WX3-91	5.3
TOP HAT	7.3	DSV NA 9402	5.0
WILLIAMSBURG	7.3	FIGARO	4.7
WX3-93	7.3	DSV NA 9401	4.3
ACHIEVER	7.0	LINN	4.3
BUCCANEER II (WVPB 92-4)	7.0		
EXPRESS	7.0	LSD VALUE	1.8
MB 44	7.0		
MB 45	7.0	CV (%)	15.6

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

TABLE 17. PERCENT DOLLAR SPOT (AUGUST) RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA 2/

NAME	KY1	NAME	KY1
EXCEL (MB 1-5)	17.7	VIVID	6.0
WX3-93	13.0	ACHIEVER	5.7
BLAZER III (PICK 928)	11.7	DIVINE	5.3
PRELUDE III (LRF-94-B6)	10.7	ESQUIRE	5.3
PST-2CB	10.7	PEGASUS	5.3
WIND DANCE (MB 46)	10.7	CADDIESHACK (MED 5071)	5.0
MB 44	9.7	DLP 1305	5.0
WIZARD (MB 41)	9.7	NINE-O-ONE	5.0
SONATA (PST-2R3)	9.3	SATURN II (ZPS-2ST)	5.0
TOP GUN (J-1703)	9.3	SR 4400 (SRX 4400)	5.0
BRIGHTSTAR II (PST-2M3)	9.0	APR 066	4.7
MB 45	9.0	ASSURE	4.7
PENNANT II (MB 42)	8.7	LRF-94-C8	4.7
CAS-LP23	8.3	R2 (ISI-R2)	4.7
SECRETARIAT (RPBD)	8.3	SR 4010 (SRX 4010)	4.7
CITATION III (PST-2DGR)	8.0	STALLION SUPREME (PSI-E-1)	4.7
DANCER	8.0	SUNSHINE (PICK LP 102-92)	4.7
MONTEREY (J-1706)	8.0	ASP400 (APR 106)	4.3
BRIGHTSTAR	7.7	DSV NA 9402	4.3
LAREDO	7.7	DSV NA 9401	4.0
NOBILITY	7.7	PANTHER (ZPS-PR1)	4.0
REPELL III (LRF-94-C7)	7.7	PRECISION	4.0
BAR ER 5813	7.3	PROTOCOL (KOOS 93-3)	4.0
BUCCANEER II (WVPB 92-4)	7.3	PS-D-9	4.0
EDGE	7.3	STARDANCE (PST-2FE)	4.0
LINE DRIVE (MB 47)	7.3	ADVANTAGE	3.7
NAVAJO	7.3	APR 131	3.7
NIGHT HAWK	7.3	FIGARO	3.7
PREMIER II (BAR USA 94-II)	7.3	PASSPORT (PST-2FF)	3.7
PRIZM	7.3	CUTTER	3.3
SPELL BOUND (WVPB-93-KFK)	7.3	ACADEMY (PC-93-1)	3.0
HEAD START (PICK PR 84-91)	7.0	CHAPARRAL (PST-2DLM)	3.0
MORNING STAR	7.0	LEGACY II (LESCO-TWF)	3.0
RIVIERA II	7.0	STALLION SELECT	3.0
WX3-91	7.0	MVF-4-1	2.7
BLACKHAWK (TMI-EXFLP94)	6.7	OMEGA3 (ZPS-2DR-94)	2.7
CATALINA (PST-GH-94)	6.7	EXPRESS	2.3
ELF	6.7	MANHATTAN 3	2.3
IMAGINE	6.7	WILLIAMSBURG	2.3
KOOS 93-6	6.7	PENNFINE	2.0
SATURN	6.7	WIND STAR (PST-28M)	2.0
TOP HAT	6.7	MARDIGRAS (ZPS-2NV)	1.3
WVPB-PR-C-2	6.7	APR 124	1.0
ACCENT	6.3	ROADRUNNER (PST-2ET)	1.0
CALYPSO II	6.3	SR 4200	0.7
ISI-MHB	6.3	LINN	0.0
MAJESTY (MB 43)	6.3		
PALMER III (LRF-94-MPRH)	6.3	LSD VALUE	6.5
QUICKSTART	6.3		
OMNI	6.0	CV (%)	68.5

- 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 18. PERCENT GREY LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
1997 DATA 2/

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

TABLE 19.

 PERCENT RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT LEXINGTON, KY 2/  
 1997 DATA

NAME	JUNE2	JUNE17	MEAN	NAME	JUNE2	JUNE17	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-2QM)	2.7	8.0	5.3
MAJESTY (MB 43)	8.7	12.3	10.5	STALLION SELECT	3.3	7.0	5.2
APR 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
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-KFK)	5.7	11.3	8.5	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
ES-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
QMI	6.3	9.0	7.7	WILLIAMSBURG	2.0	6.0	4.0
EENNANT 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
MB 44	4.7	10.0	7.3	BUCCANEER II (WVFB 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
APR 124	5.3	7.3	6.3	PST-2CB	1.3	4.0	2.7
BALMER III (LRF-94-MPH)	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				
OMEGA3 (ZPS-2DR-94)	4.0	7.7	5.8	C.V. (%)	69.4	55.0	54.0

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 20. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/  
 AT PUYALLUP, WA  
 1997 DATA  
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

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-MPRH)	5.7	4.3	4.0	5.3	4.8
PANTHER (ZPS-PR1)	4.3	4.3	4.3	6.0	4.8
LAREDO	4.3	4.0	4.0	6.3	4.7
MB 45	4.7	4.3	4.0	5.7	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
EDGE	4.3	3.7	4.7	5.0	4.4
ISI-MHB	4.0	3.7	4.3	5.7	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

TABLE 20. LEAF SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 (CONT'D) AT PUYALLUP, WA  
 1997 DATA  
 LEAF SPOT RATINGS 1-9; 9=NO DISEASE

NAME	JANUARY	FEBRUARY	MARCH	APRIL	MEAN
MAJESTY (MB 43)	3.7	3.3	3.7	5.3	4.0
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
MB 44	3.3	3.0	3.7	5.3	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
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.