

## 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 1994

<u>State</u>	<u>Location</u>	<u>Code</u>
District of Columbia	Washington Monument Grounds	DC1
Illinois	Carbondale	IL2
Iowa	Ames	IA1
Kentucky	Lexington	KY1
Maryland	Beltsville	UB1
Michigan	East Lansing	MI1
New Jersey	North Brunswick	NJ1
Oregon	Hubbard (30-40% Shade)	OR7
Oregon	Summary of data collected at Halsey and Hubbard	OR9
Rhode Island	Kingston	RI1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1

1990 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
1	Riviera	Roberts Seed Company	46	Pinnacle	Barenbrug USA	91	PS 89-90 (MVF 89-90)	Mid Valley Farms/Pro-Seeds
2	Calypto	Roberts Seed Company	47	Duet	Cascade Inter. Seed Co.	92	Stallion Select (PS-105)	Pro-Seeds Marketing
3	Seville	Willamette Seed Company	48	Pennant	E. F. Burlingham & Son	93	Stallion	Finelawn Research
4	Caliente	Willamette Seed Company	49	Competitor	E. F. Burlingham & Son	94	PR 9118	International Seeds, Inc.
5	Capri (ZW 42-176)	Limagrain Genetics	50	PR 9121	International Seeds, Inc.	95	SR 4200	Seed Research of OR, Inc.
6	BAR Lp 852	Barenbrug Holland	51	PR 9119	International Seeds, Inc.	96	Rodeo II	Turf Merchants
7	Barrage	Barenbrug Holland	52	PR 9108	International Seeds, Inc.	97	Patriot II	Turf Merchants
8	Barrage ++	Barenbrug Holland	53	Essence (PR 8820)	International Seeds, Inc.	98	Boardwalk (OFI-D4)	Olson-Fennel Seed Company
9	Commander	LESCO, Inc.	54	Cutless	International Seeds, Inc.	99	Elegance (OFI-F7)	Olson-Fennel Seed Company
10	Assure	LESCO, Inc.	55	Derby Supreme	International Seeds, Inc.	100	PR 9109	International Seeds, Inc.
11	Legacy	LESCO, Inc.	56	Regal	International Seeds, Inc.	101	Mulligan (NK 89001)	Medalist America
12	Dandy	Medalist America	57	Gator	International Seeds, Inc.	102	Target	Medalist America
13	Danilo	Danish Plant Breeding	58	Lindsay	International Seeds, Inc.	103	Goalie	Medalist America
14	Danaro	Danish Plant Breeding	59	Achiever (Pick 1800)	Pickseed West, Inc.	104	Advent	Jacklin Seed Company
15	Precision (Mom Lp 3147)	Advanta Seeds West	60	Riviera II (Pick DKM)	Roberts Seed Co.	105	APM	Medalist America
16	Mom Lp 3184	Advanta Seeds West, Inc.	61	Greenland (Pick 9100)	Pickseed West, Inc.	106	Pennfine	-
17	Mom Lp 3185	Advanta Seeds West, Inc.	62	Lynx (Pick EEC)	Olsen-Fennell Seed Co.	107	Unknown	-
18	Elite (WVPB-88-PR-C-23)	Forbes Seed & Grain	63	Express	Pickseed West	108	Palmer II (P89)	Loft's Seed, Inc.
19	Allegro	Prodana Seeds	64	Troubadour	International Seeds, Inc.	109	Yorktown III (LDRF)	Loft's Seed, Inc.
20	Taya	Prodana Seeds	65	Entrar	International Seeds, Inc.	110	Repell	Loft's Seed, Inc.
21	Loretta	O. M. Scott & Son	66	CLP 144	Cebeco Handelsraad	111	Prelude II (2P2-90)	Loft's Seed, Inc.
22	Ovation	O. M. Scott & Son	67	Morning Star (Syn-P)	Pennington Seed Inc.	112	Cowboy II (WM-II)	Loft's Seed, Inc.
23	Charisma (WVPB 89-92)	Production Serv. Int'l	68	Newlinn (N-33)	John R. Koos & Son	113	Repell II (LDRD)	Loft's Seed, Inc.
24	Buccaneer (Koos 90-1)	John R. Koos & Son	69	Dimension (2H7)	Advanta Seeds West, Inc.	114	Toronto	Advanta Seeds West, Inc.
25	Koos 90-2	John R. Koos & Son	70	Charger	Turf-Seed, Inc.	115	EEG 358	International Seeds, Inc.
26	Pleasure	Ampac Seed Company	71	Citation II	Turf-Seed, Inc.	116	Equal	All Star Farms, Inc.
27	Delaware Dwarf (4DD)	Ampac Seed Company	72	ZPS-2EZ	Zajac Performance Seeds	117	Nomad	Turf Merchants
28	BAR Lp 086FL	Barenbrug Holland	73	Manhattan II (E)	Manhattan Rye Growers	118	Evening Shade (Poly-SH)	Turf Merchants
29	Topeka (WVPB 88-PR-D-10)	Smith Seed Services	74	Prizm (ZPS-28D)	Zajac Performance Seeds	119	Mom Lp 3111	Advanta Seeds West, Inc.
30	Statesman (WVPB-88-PR-D-12)	Smith Seed Services	75	Navajo (PST-2DPR)	Turf-Seed, Inc.	120	Mom Lp 3179	Advanta Seeds West, Inc.
31	Accolade	O. M. Scott & Son	76	Wind Star (PST-28M)	Pure-Seed Testing, Inc.	121	HE 311	Advanta Seeds West, Inc.
32	NightHawk (WVPB-89-PR-A-3)	Forbes Seed & Grain	77	PST-290	Pure-Seed Testing, Inc.	122	Mom Lp 3182	Advanta Seeds West, Inc.
33	Affinity (GEN-90)	Genesis Group	78	PST-2ROR	Pure-Seed Testing, Inc.	123	Linn	-
34	Sherwood	Jonathan Green & Son	79	PST-23C	Pure-Seed Testing, Inc.			
35	Gettysburg	Cascade Inter./Jon. Green	80	Passport (PST-2FF)	Roberts Seed Co.			
36	240 (Pebble Beach)	Pennington Seed Inc.	81	Quickstart (PST-2FQR)	Turf-Seed, Inc.			
37	Pronto (WVPB-89-87A)	Proseeds	82	Shining Star (PST-2B3)	Pennington Seed, Inc.			
38	Fiesta II	Pickseed West, Inc.	83	Envy	Zajac Performance Seeds			
39	Cutter (Pick 89-4)	Pickseed West, Inc.	84	PST-20G	Turf-Seed, Inc.			
40	Lowgrow (Pick 89LLG)	Pickseed West, Inc.	85	Brightstar (PST-GH-89)	Turf-Seed, Inc.			
41	CLP 39	Cebeco Handelsraad	86	Saturn	Zajac Performance Seeds			
42	Surprise	Cebeco Handelsraad	87	856	Mid-Valley Ag. Products			
43	Cartel	Cebeco Handelsraad	88	89-666	Mid-Valley Ag. Products			
44	Meteor	Cebeco Handelsraad	89	C-21	Mid-Valley Ag. Products			
45	Premier	Barenbrug USA	90	Corsair (MVF 89-88)	John R. Koos & Son			

TABLE A.

1994 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 1990 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
DC1	-	-	-	-	-	-	-	-
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
IL2	SILTY CLAY LOAM	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
KY1	SILT LOAM AND SILT	6.1-6.5	-	-	2.1-3.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
MI1	SANDY LOAM	6.6-7.0	-	-	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	271-450	241-375	5.1-6.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OR7	SILT LOAM AND SILT	5.6-6.0	151-270	241-375	4.1-5.0	UNIFORM SHADE	2.1-2.5	TO PREVENT DORMANCY
OR9	-	-	-	-	-	-	-	-
RI1	SILT LOAM AND SILT	6.6-7.0	-	0-150	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
UB1	SANDY LOAM	6.1-6.5	151-270	0-150	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
VA1	SILT LOAM AND SILT	6.1-6.5	61-150	0-150	3.1-4.0	LIGHT SHADE	1.6-2.0	ONLY DURING SEVERE STRESS
WA1	SILT LOAM AND SILT	5.6-6.0	271-450	501+	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 1994

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
DC1				X	X	X	X	X				
IA1					X	X	X	X				
IL2					X	X	X	X	X			
KY1			X	X	X	X	X	X	X	X		
MI1					X	X	X	X	X			
NJ1				X		X	X	X	X	X		X
OR7					X		X					X
OR9	X	X	X	X	X	X	X	X	X			
RI1					X	X	X	X	X	X	X	
UB1				X	X	X	X	X	X	X	X	
VA1				X	X	X	X	X	X	X		
WA1				X		X	X	X				

TABLE B.  
(CONT'D)

## LOCATIONS AND DATA COLLECTED IN 1994

LOCATION	GENETIC COLOR RATING	SPRING GREENUP RATING	RED THREAD RATING	BROWN PATCH RATING	BROWN BLIGHT RATING	CANOPY HEIGHT
DC1						
IA1						
IL2						X
KY1	X					
MI1			X			
NJ1			X	X		
OR7						
OR9					X	
RI1						
UB1		X				
VA1						
WA1						

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/												
	DC1	IA1	IL2	KY1	MI1	NJ1	OR7	OR9	RI1	UB1	VA1	WA1	MEAN
* PRIZM (ZPS-28D)	3.5	6.4	7.1	7.5	5.5	6.2	5.1	7.1	6.0	7.7	5.2	7.5	6.2
* STALLION SELECT (PS-105)	3.9	7.1	7.2	7.5	5.8	6.2	4.9	5.9	6.3	7.5	4.4	7.6	6.2
* AFFINITY (GEN-90)	4.0	7.1	7.1	7.3	5.9	5.6	5.2	6.3	5.6	7.5	5.1	7.5	6.2
* BRIGHTSTAR (PST-GH-89)	3.3	6.3	6.3	7.0	6.0	6.5	6.0	5.8	6.0	8.0	5.0	7.9	6.2
* YORKTOWN III (LDRF)	4.1	6.8	6.5	7.6	5.5	5.2	5.1	6.6	6.3	7.5	4.6	7.8	6.1
* PRELUDE II (2P2-90)	3.3	6.8	7.4	6.8	5.9	5.5	5.1	6.7	6.0	7.8	4.8	7.4	6.1
* CUTTER (PICK 89-4)	3.3	7.1	6.3	7.2	5.8	5.9	5.1	6.3	5.7	7.9	5.2	7.7	6.1
* SEVILLE	3.9	6.7	6.7	6.8	5.8	5.9	5.0	6.3	6.2	7.7	5.1	7.3	6.1
* REPELL II (LDRD)	3.3	6.8	6.3	7.3	5.5	6.0	5.2	6.7	5.9	7.9	4.9	7.4	6.1
WIND STAR (PST-28M)	3.4	6.8	6.7	7.5	6.1	5.4	4.8	6.3	6.2	7.9	4.5	7.6	6.1
* APM	3.7	6.9	6.6	7.1	5.7	5.5	4.9	6.6	5.9	7.8	4.7	7.6	6.1
* MORNING STAR (SYN-P)	4.3	6.6	7.3	7.3	6.0	5.6	4.2	6.5	5.9	7.3	4.9	7.2	6.1
* LYNK (PICK EEC)	4.1	7.3	5.3	7.4	6.2	5.8	4.1	6.5	6.0	7.3	4.9	7.9	6.1
* RIVIERA II (PICK DKM)	3.5	6.9	6.5	7.5	5.7	5.8	4.4	6.5	6.0	7.6	4.8	7.5	6.1
PST-290	3.4	6.9	6.7	7.5	5.8	5.7	5.1	6.4	5.8	7.2	4.5	7.7	6.1
* GETTYSBURG	3.5	6.9	6.5	7.0	6.5	6.2	4.4	6.2	5.9	7.3	4.9	7.3	6.0
* DELAWARE DWARF (4DD)	3.8	7.2	7.2	7.3	6.1	5.5	4.9	5.8	5.8	7.1	4.5	7.5	6.0
* NIGHTHAWK (WVPB-89-PR-A-3)	3.1	6.7	7.1	7.8	5.8	6.2	4.7	6.1	5.8	7.3	4.4	7.4	6.0
* ASSURE	3.8	7.0	5.9	6.8	6.3	5.4	4.2	6.9	6.0	7.7	4.6	7.7	6.0
* PALMER II (P89)	3.3	6.3	6.0	7.7	5.3	5.6	4.6	6.3	6.2	7.8	5.0	7.9	6.0
* ADVENT	4.0	6.7	6.4	6.8	6.4	5.6	4.0	6.0	6.2	7.6	5.0	7.5	6.0
* NAVAJO (PST-2DPR)	3.9	6.8	6.1	7.3	6.2	5.2	4.9	6.0	5.7	7.0	4.8	7.6	6.0
* PINNACLE	3.2	6.6	6.3	7.6	6.2	6.0	4.7	6.3	5.7	7.4	4.2	7.5	6.0
* ACHIEVER (PICK 1800)	3.7	6.8	6.7	7.5	5.7	5.8	3.9	6.3	5.9	7.0	4.9	7.3	6.0
* PASSPORT (PST-2FF)	3.4	6.7	5.5	7.6	6.1	5.3	5.3	6.1	5.5	7.6	4.9	7.4	6.0
* TARGET	3.3	6.8	6.0	7.3	6.5	5.2	4.2	6.3	5.9	7.2	4.9	7.4	5.9
* GREENLAND (PICK 9100)	3.6	6.8	6.3	7.0	5.5	5.1	4.8	6.1	6.0	7.8	4.2	7.6	5.9
* DANDY	4.5	7.2	5.2	7.3	5.9	5.5	4.6	5.9	6.0	7.1	4.3	7.3	5.9
* QUICKSTART (PST-2FQR)	3.5	6.7	6.0	7.2	6.0	6.3	4.4	6.1	5.6	7.2	4.2	7.2	5.9
PST-23C	4.5	6.7	5.6	7.5	5.7	5.4	4.6	6.1	5.8	7.1	4.0	7.4	5.9
* EXERESS	3.6	7.0	6.8	7.3	6.1	5.2	3.2	6.4	5.7	7.4	4.5	7.1	5.9
89-666	4.1	6.8	5.7	7.7	5.6	5.6	4.0	5.2	6.1	7.3	4.9	7.1	5.8
* PRECISION (MOM LP 3147)	3.9	6.7	5.8	7.6	5.5	5.6	4.6	5.7	5.9	7.0	4.7	7.0	5.8
* SR 4200	2.8	7.1	5.1	7.2	5.7	5.9	4.9	5.7	6.1	7.5	4.6	7.3	5.8
PST-2ROR	4.1	7.0	4.7	7.4	6.2	5.1	4.4	6.4	5.5	7.0	4.3	7.7	5.8
* LEGACY	4.3	6.3	5.9	7.1	5.1	5.6	3.8	6.1	5.8	7.3	4.8	7.7	5.8
* SHERWOOD	4.1	6.8	5.9	6.1	6.4	5.2	4.7	6.3	5.2	7.0	4.4	7.7	5.8
* PRQNT0 (WVPB-89-87A)	4.0	7.0	6.3	7.3	6.3	5.0	3.9	5.9	5.7	7.0	4.1	7.1	5.8
* SHINING STAR (PST-2B3)	3.8	7.0	5.4	7.3	5.9	5.5	4.1	6.4	5.6	6.8	4.5	7.1	5.8
* BUCCANEER (KOOS 90-1)	2.8	6.9	6.2	7.5	5.8	5.6	3.4	6.1	5.6	7.3	5.0	7.2	5.8
PST-2OG	3.5	7.0	5.5	7.0	5.9	5.0	4.9	6.2	5.6	7.0	4.7	7.3	5.8
PR 9121	3.7	6.4	5.8	6.6	5.7	4.9	4.9	6.2	6.0	7.2	4.6	7.2	5.8
* EQUAL	3.1	6.8	5.5	7.5	5.7	5.2	4.6	5.7	6.1	7.3	4.5	7.3	5.8
* ENVY	4.1	6.6	4.4	7.0	6.5	5.4	4.8	5.7	5.6	7.1	4.4	7.3	5.7
* PR 9119	3.1	7.3	5.7	7.1	6.0	5.1	4.7	6.1	5.6	7.0	4.2	7.0	5.7

TABLE 1.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF												
	DC1	IA1	IL2	KY1	MI1	NJ1	OR7	OR9	RI1	UB1	VA1	WA1	MEAN
* ESSENCE (PR 8820)	3.7	6.5	5.4	6.8	6.5	4.6	4.9	6.2	5.6	7.0	4.3	7.4	5.7
* ELEGANCE (OFI-F7)	3.1	6.0	6.9	7.3	5.5	5.6	3.7	6.2	5.6	7.3	4.6	6.8	5.7
* REPELL	3.7	6.5	6.4	7.0	6.2	4.0	4.8	5.4	5.6	7.0	4.9	7.2	5.7
* MANHATTAN II (E)	3.5	6.8	6.4	7.3	5.5	5.2	4.2	5.9	5.3	6.8	4.3	7.3	5.7
* CHARGER	3.5	7.5	5.3	7.3	5.9	5.0	4.2	6.4	5.3	6.8	4.0	7.3	5.7
* COMPETITOR	3.3	6.7	5.5	6.6	6.0	5.0	4.7	6.1	5.5	7.0	4.5	7.2	5.7
* DIMENSION (2H7)	3.1	6.8	5.1	6.8	6.1	5.3	4.8	6.4	5.1	6.9	4.2	7.3	5.7
* PLEASURE	3.0	6.8	6.1	7.3	5.8	5.3	4.0	5.6	5.6	6.5	4.7	7.3	5.7
HE 311	3.4	7.6	4.7	6.6	5.8	4.8	4.8	5.8	5.7	6.7	4.5	7.5	5.7
* FIESTA II	3.7	6.9	4.7	7.1	6.7	4.9	4.2	5.5	5.8	6.7	4.3	7.3	5.7
* SATURN	4.0	6.4	5.7	7.4	6.2	5.0	4.0	5.7	5.4	6.7	4.0	7.3	5.7
KOCS 90-2	3.1	6.8	6.2	6.8	5.9	5.3	3.7	5.9	5.9	6.8	4.2	7.2	5.6
* BARRAGE ++	6.1	7.1	6.3	7.0	5.8	3.6	3.4	4.8	5.6	6.2	5.3	6.3	5.6
* LOWGROW (PICK 89LLG)	3.0	6.8	5.3	6.2	6.1	4.4	5.1	5.8	5.3	7.2	4.7	7.6	5.6
* STATESMAN (WVPB-88-PR-D-12)	3.5	6.8	4.7	6.9	6.0	5.4	4.4	5.9	5.7	6.8	4.1	7.0	5.6
CHARISMA (WVPB 89-92)	3.1	7.1	4.7	7.0	6.1	5.2	4.4	5.7	5.4	7.1	4.5	6.9	5.6
* 240 (PEBBLE BEACH)	3.7	6.4	4.9	7.1	5.5	4.7	5.0	5.7	5.5	7.0	4.4	7.3	5.6
* STALLION	3.5	6.6	6.0	7.3	6.1	5.0	4.6	5.6	5.6	6.1	3.7	6.9	5.6
* TOEKA (WVPB-88-PR-D-10)	3.3	6.5	6.2	6.8	6.2	5.0	3.9	5.4	5.5	6.1	4.3	7.4	5.6
* RIVIERA	3.4	6.8	5.0	7.2	5.7	5.4	3.8	5.7	6.0	6.6	4.2	7.0	5.6
* PS 89-90 (MVF 89-90)	3.7	6.8	5.7	6.6	6.1	4.9	3.7	5.5	5.7	6.5	4.3	7.2	5.6
* CUTLESS	4.4	7.2	4.7	6.8	5.3	4.2	4.3	5.7	5.6	6.8	4.5	7.0	5.5
* GATOR	4.1	6.9	4.4	7.0	6.2	4.8	3.8	5.6	5.7	6.4	4.8	6.9	5.5
BAR LP 852	3.4	6.7	5.8	6.7	6.3	4.9	4.4	5.1	5.5	6.4	4.0	7.2	5.5
ZPS-2EZ	2.8	6.3	6.0	7.3	5.1	5.4	3.6	5.9	5.6	6.8	4.1	7.3	5.5
UNKNOWN	3.3	6.8	5.5	7.3	6.4	4.4	3.8	5.5	5.1	6.3	4.8	7.0	5.5
PR 9118	3.7	6.9	5.3	7.3	6.1	4.8	4.0	5.3	5.3	6.6	4.1	6.8	5.5
CORSAIR (MVF 89-88)	4.0	6.9	5.5	6.9	6.1	4.5	4.0	5.5	5.4	6.3	4.5	6.4	5.5
* ELITE (WVPB-88-PR-C-23)	3.6	7.1	4.9	6.8	5.7	5.0	4.7	5.7	5.3	6.3	4.2	6.9	5.5
PR 9109	3.6	6.3	5.2	7.0	5.8	4.6	4.9	5.4	5.3	6.8	4.5	6.6	5.5
* NOMAD	4.4	6.5	3.9	7.3	6.3	4.5	4.8	5.1	5.4	5.9	4.1	7.5	5.5
* CAERI (ZW 42-176)	3.6	6.7	4.8	6.6	6.1	4.9	4.6	5.8	5.6	6.2	4.1	7.0	5.5
C-21	4.0	7.2	4.7	7.3	6.3	4.6	4.3	5.0	5.2	5.9	4.3	6.8	5.5
* COWBOY II (WM-II)	3.0	6.8	5.3	7.0	5.6	4.7	4.4	5.5	5.5	6.0	4.3	7.3	5.5
NEWLINN (N-33)	3.5	6.7	5.5	7.0	5.1	5.0	3.7	5.8	5.5	6.6	4.3	6.7	5.4
* PENNANT	3.6	6.4	4.4	6.4	6.3	5.0	4.9	5.5	5.2	6.2	4.2	6.9	5.4
* CALYPSO	3.8	6.7	5.5	6.8	5.8	4.1	3.9	5.4	5.6	6.0	4.5	6.9	5.4
* LINDSAY	4.0	7.1	4.5	6.7	6.1	4.1	4.1	5.3	5.6	6.3	4.3	6.9	5.4
* PR 9108	2.9	6.5	5.3	7.3	5.9	4.6	4.1	5.9	5.5	6.3	4.0	6.7	5.4
EEG 358	4.2	6.4	4.7	7.5	6.5	3.8	4.9	4.6	5.3	6.5	4.3	6.2	5.4
* ACCOLADE	3.1	6.2	5.3	7.1	6.0	5.0	4.2	5.6	5.3	6.0	4.2	7.0	5.4
* CITATION II	3.9	6.8	6.5	7.0	6.1	3.9	2.9	5.4	4.9	6.3	4.1	6.9	5.4
* BARRAGE	4.6	6.8	5.5	6.6	6.0	3.6	3.8	4.9	5.7	6.1	4.5	6.6	5.4
* EVENING SHADE (POLY-SH)	2.4	6.7	4.5	7.5	6.3	4.5	4.1	6.0	5.1	6.9	3.5	7.1	5.4
* COMMANDER	4.5	6.8	3.7	6.9	6.0	5.0	3.4	5.6	5.0	6.2	4.3	7.0	5.4



TABLE 1.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF												
	DC1	IA1	IL2	KY1	MI1	NJ1	OR7	OR9	RI1	UB1	VA1	WA1	MEAN
MOM LP 3184	3.9	6.4	5.5	7.1	6.0	4.3	3.3	5.1	5.8	6.0	4.2	6.8	5.4
* PREMIER	3.1	6.6	5.5	7.5	6.1	4.8	3.7	4.8	5.5	5.6	4.6	6.4	5.3
* DERBY SUPREME	3.5	7.0	4.7	7.0	5.9	4.0	3.8	5.1	5.3	6.3	4.2	7.1	5.3
* MULLIGAN (NK 89001)	3.0	6.4	4.9	6.8	5.8	4.6	3.4	5.3	5.6	6.4	4.4	7.0	5.3
* PATRIOT II	3.0	6.7	3.7	7.2	6.0	5.0	3.8	5.7	5.1	6.5	3.7	7.4	5.3
* ROEEO II	2.9	6.9	4.7	7.2	5.7	5.1	3.3	5.3	5.4	6.6	3.8	6.8	5.3
BAR LP 086FL	2.9	6.7	4.0	6.5	5.7	4.7	4.0	5.9	5.6	5.9	3.9	7.2	5.3
* LORETTA	4.5	7.1	3.9	6.8	6.2	3.6	4.0	4.9	5.2	5.7	4.5	6.4	5.2
* TAYA	3.2	6.8	4.5	7.1	6.1	3.8	4.4	5.3	4.7	6.2	3.9	6.9	5.2
* REGAL	2.6	6.0	6.3	7.7	5.5	3.8	2.8	4.7	5.5	6.2	4.8	6.8	5.2
* CALIENTE	3.9	6.2	4.8	6.5	6.2	4.1	2.9	5.1	5.4	5.8	4.7	6.8	5.2
* ALLEGRO	3.9	6.5	4.2	6.9	6.4	3.8	4.9	5.2	4.7	6.0	3.5	6.3	5.2
* DUET	2.7	6.7	4.5	7.0	5.5	4.6	4.7	4.9	5.0	6.0	4.1	6.5	5.2
CLP 39	3.8	6.6	3.5	6.5	6.5	3.4	4.8	5.0	5.3	6.1	3.8	6.8	5.2
* BOARDWALK (OFI-D4)	3.8	6.6	4.2	6.8	5.9	4.1	3.3	4.9	5.0	6.0	4.1	6.8	5.1
856	3.9	5.7	4.4	7.1	5.7	4.3	3.9	4.8	5.5	5.7	4.0	6.6	5.1
CLP 144	3.7	6.8	4.9	6.4	5.6	3.4	4.3	5.1	5.3	5.6	4.0	6.3	5.1
* DANILO	4.3	6.7	4.1	6.5	5.9	3.2	3.0	5.1	5.3	5.7	3.8	7.3	5.1
MOM LP 3182	3.7	6.0	4.5	6.6	5.9	4.1	3.8	4.5	5.6	5.8	4.3	6.1	5.1
MOM LP 3185	3.8	6.2	4.2	7.1	5.7	3.5	3.4	4.6	5.9	5.3	3.9	6.7	5.0
TORONTO	4.1	6.8	3.1	6.9	5.8	3.4	4.0	4.8	5.6	5.2	4.5	6.0	5.0
* DANARO	3.6	6.8	3.9	6.5	5.7	3.9	4.0	4.9	5.2	5.3	3.8	6.4	5.0
* PENNFINE	4.0	6.8	3.2	6.8	6.5	3.8	2.7	4.6	5.3	5.5	4.2	6.6	5.0
* ENIRAR	4.1	6.8	2.9	6.4	6.1	3.8	4.4	4.5	5.0	5.9	3.0	6.0	4.9
* OVATION	3.3	6.7	3.6	6.4	6.1	3.6	3.0	5.1	5.0	5.5	3.9	6.4	4.9
MOM LP 3111	3.6	6.2	3.1	6.7	6.1	3.4	3.4	5.1	4.9	4.8	3.8	6.7	4.8
* GOALIE	3.3	6.2	4.0	6.5	6.2	3.9	2.6	4.6	5.0	4.8	4.0	6.4	4.8
MOM LP 3179	3.1	5.4	4.7	6.6	5.5	3.6	3.1	4.6	5.4	5.2	4.0	6.1	4.8
* SURPRISE	3.6	6.2	3.2	6.0	5.7	3.1	3.7	4.9	5.0	5.4	3.4	6.1	4.7
* METEOR	2.9	6.1	3.7	6.3	5.2	2.8	5.0	4.6	5.2	5.1	3.7	5.3	4.7
* TROUBADOUR	3.7	6.7	2.3	6.5	5.9	3.0	3.4	4.6	5.3	5.3	3.3	5.7	4.6
* CARTEL	3.1	6.3	3.3	6.6	5.2	2.6	3.1	4.4	5.0	4.5	3.4	6.1	4.5
* LINN	1.8	3.9	1.7	4.6	4.7	2.0	2.8	2.6	2.9	2.9	3.2	3.6	3.1
LSD VALUE	1.2	0.8	1.5	0.9	0.8	0.8	1.4	0.8	0.6	0.6	0.7	0.5	0.3

\* COMMERCIALY AVAILABLE IN THE USA IN 1995.

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).

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT TWELVE LOCATIONS IN THE U.S. 1994 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PRIZM (ZPS-28D)	6.3	6.3	6.8	6.7	6.4	6.3	6.4	6.2	6.2	6.8	6.8	5.8	6.2
STALLION SELECT (PS-105)	5.0	6.0	6.3	6.7	6.3	6.1	6.0	5.9	6.4	6.9	7.2	5.2	6.2
AFFINITY (GEN-90)	6.0	6.3	6.5	6.5	6.3	6.0	6.4	6.1	6.1	6.4	6.7	5.3	6.2
BRIGHTSTAR (PST-GH-89)	5.3	5.7	7.0	6.6	6.3	6.1	6.1	5.8	6.0	7.0	7.3	5.8	6.2
YORKTOWN III (LDRF)	6.0	6.7	6.7	6.7	6.1	6.1	6.4	5.9	6.0	6.5	7.2	5.3	6.1
PRELUDE II (2P2-90)	6.3	7.0	6.5	6.5	6.1	6.2	6.0	6.0	6.3	6.5	6.8	5.3	6.1
CUTTER (PICK 89-4)	5.3	6.3	6.5	6.5	6.2	6.0	6.1	6.0	6.1	6.8	6.7	5.7	6.1
SEVILLE	5.3	6.3	6.7	6.4	6.1	6.0	6.1	6.1	6.3	6.4	7.0	5.8	6.1
REPELL II (LDRD)	6.3	6.7	6.8	6.4	5.9	5.9	6.3	6.1	6.2	6.7	6.7	6.0	6.1
WIND STAR (PST-28M)	6.3	6.3	6.7	6.3	6.2	5.9	6.2	6.1	6.4	6.5	6.8	5.3	6.1
APM	6.0	6.3	6.3	6.4	6.1	6.0	6.1	6.0	6.5	6.3	6.5	4.8	6.1
MORNING STAR (SYN-P)	6.0	6.3	6.5	6.3	6.1	6.1	6.2	6.2	6.2	6.7	6.7	5.0	6.1
LYNK (PICK EEC)	6.0	6.0	6.7	6.7	6.1	5.9	6.0	6.2	6.3	6.7	6.7	5.0	6.1
RIVIERA II (PICK DKM)	5.7	7.0	6.8	6.6	6.2	6.0	6.1	5.9	6.2	6.8	6.8	5.2	6.1
PST-290	5.3	6.7	6.7	6.7	6.0	5.8	6.0	5.9	6.3	6.5	7.0	5.3	6.1
GETTYSBURG	6.0	6.3	6.5	6.4	6.0	6.0	6.1	5.8	6.2	6.8	6.7	6.0	6.0
DELAWARE DWARF (4DD)	5.7	6.0	6.5	6.0	6.0	6.0	6.2	5.8	6.0	6.5	6.8	5.5	6.0
NIGHTHAWK (WVPB-89-PR-A-3)	5.3	6.0	6.7	6.2	5.9	6.2	6.0	5.9	6.3	6.7	6.3	6.0	6.0
ASSURE	6.3	6.3	7.0	6.3	6.2	5.9	6.3	6.0	6.1	6.1	6.7	4.8	6.0
PALMER II (P89)	5.7	5.7	7.0	6.8	6.0	5.9	5.9	5.8	6.3	6.8	7.3	5.3	6.0
ADVENT	5.7	6.3	5.5	6.5	6.1	6.1	6.2	5.8	6.0	6.3	7.0	5.0	6.0
NAVAJO (PST-2DPR)	4.7	5.0	7.2	6.6	6.1	5.7	5.9	5.9	5.8	6.4	6.7	5.5	6.0
PINNACLE	6.3	6.3	6.2	6.1	5.9	6.2	6.1	6.0	6.0	6.4	6.7	5.3	6.0
ACHIEVER (PICK 1800)	6.0	6.3	6.7	6.1	5.9	6.1	6.0	5.9	6.2	6.7	6.2	5.0	6.0
PASSPORT (PST-2FF)	5.7	6.0	6.7	6.4	6.1	5.8	5.8	5.6	6.1	6.6	6.8	6.0	6.0
TARGET	5.7	6.7	6.3	6.1	5.8	5.7	6.1	5.9	6.5	6.4	6.5	4.8	5.9
GREENLAND (PICK 9100)	5.7	6.3	6.8	6.1	6.2	5.8	5.8	5.7	6.2	6.3	6.8	4.7	5.9
DANDY	6.3	6.0	6.5	6.2	5.8	5.9	6.1	5.8	5.8	5.9	6.5	5.3	5.9
QUICKSTART (PST-2FQR)	6.0	5.7	6.7	6.4	6.0	5.8	5.7	5.7	6.2	6.1	6.7	5.2	5.9
PST-23C	6.0	6.7	6.7	6.6	5.8	5.6	5.8	5.7	5.9	6.3	7.0	5.0	5.9
EXERESS	6.0	6.7	6.3	5.9	5.7	6.2	5.9	6.1	5.8	6.4	6.7	5.0	5.9
89-666	5.3	5.7	6.2	6.4	5.8	5.9	5.7	5.7	6.3	6.3	6.8	4.7	5.8
PRECISION (MOM LP 3147)	6.3	6.0	6.7	6.1	5.9	5.8	6.0	5.6	5.9	6.5	6.5	4.5	5.8
SR 4200	5.3	5.7	6.7	6.2	5.9	5.7	5.8	5.7	5.8	6.6	6.8	5.3	5.8
PST-2ROR	5.7	6.0	6.5	6.5	6.0	5.8	5.9	5.6	5.5	6.0	6.7	5.3	5.8
LEGACY	5.7	6.3	7.0	6.6	6.2	5.8	5.7	5.7	5.8	6.1	6.0	4.8	5.8
SHERWOOD	5.7	6.3	5.7	5.9	5.8	5.7	5.9	5.7	5.9	5.9	6.2	5.3	5.8
PRQNT0 (WVPB-89-87A)	6.0	6.0	6.3	6.0	5.7	5.8	5.8	5.8	5.8	6.3	6.3	4.5	5.8
SHINING STAR (PST-2B3)	6.3	6.7	6.7	6.0	5.5	5.6	5.7	5.9	6.1	6.4	6.8	5.0	5.8
BUCCANEER (KOOS 90-1)	6.0	6.3	6.5	6.0	5.7	5.8	5.8	5.8	6.2	6.7	6.3	4.5	5.8
PST-2OG	5.3	5.3	6.5	5.9	5.7	5.7	5.9	5.9	5.8	6.1	6.7	4.7	5.8
PR 9121	6.0	6.3	5.8	5.7	5.8	5.5	5.8	6.0	5.8	6.1	6.8	5.5	5.8
EQUAL	6.0	5.7	6.2	6.0	5.4	5.7	5.8	5.7	6.1	6.3	7.0	5.5	5.8
ENVY	5.3	5.3	6.0	6.1	5.6	5.7	5.8	5.6	6.0	6.1	6.7	4.8	5.7
PR 9119	6.0	6.3	6.2	5.8	5.7	5.8	5.6	5.7	5.8	6.1	6.3	5.8	5.7

TABLE 2.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH  
MONTH GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
ESSENCE (PR 8820)	6.3	6.0	6.5	6.4	5.9	5.7	5.7	5.4	5.7	5.9	6.2	4.8	5.7
ELEGANCE (OFI-F7)	6.0	6.3	6.5	6.0	5.6	5.7	5.9	5.7	6.0	6.5	6.3	4.7	5.7
REPELL	5.7	6.0	6.0	6.0	6.0	5.7	5.7	5.6	5.4	5.9	6.3	4.3	5.7
MANHATTAN II (E)	5.3	5.3	6.0	6.2	5.7	5.7	5.7	5.7	5.8	6.3	6.2	4.5	5.7
CHARGER	5.7	5.7	6.8	6.2	5.7	5.6	5.9	5.6	5.5	6.0	6.0	4.8	5.7
COMPETITOR	6.0	6.0	6.0	6.0	5.6	5.5	5.6	5.7	5.9	6.1	6.3	5.5	5.7
DIMENSION (2H7)	5.7	6.3	5.7	6.2	5.6	5.6	5.8	5.6	5.6	5.9	6.0	5.0	5.7
PLEASURE	5.7	5.7	6.2	5.7	5.4	5.7	5.8	5.8	5.9	6.1	6.0	5.0	5.7
HE 311	5.3	5.7	5.8	5.8	5.8	5.6	5.8	5.7	5.5	5.8	5.8	4.3	5.7
FIESTA II	5.7	6.0	6.2	5.9	5.3	5.7	5.8	5.7	5.6	5.9	6.0	5.5	5.7
SATURN	6.0	6.3	6.2	6.1	5.5	5.6	5.7	5.5	5.7	6.1	6.0	4.7	5.7
KOCS 90-2	6.0	6.3	6.0	5.8	5.7	5.7	5.6	5.6	5.5	6.2	6.3	5.2	5.6
BARRAGE ++	5.3	5.3	6.3	5.7	5.7	5.7	5.8	5.7	5.3	5.7	6.0	4.2	5.6
LOWGROW (PICK 89LLG)	6.0	6.7	5.7	5.8	6.0	5.4	5.4	5.5	5.6	5.9	6.2	4.7	5.6
STATESMAN (WVPB-88-PR-D-12)	6.0	6.0	6.3	6.1	5.5	5.5	5.6	5.5	5.3	6.1	6.7	5.5	5.6
CHARISMA (WVPB 89-92)	5.7	5.7	6.0	6.0	5.6	5.5	5.5	5.6	5.7	6.3	6.5	4.8	5.6
240 (PEBBLE BEACH)	5.3	6.0	6.0	6.2	5.6	5.5	5.6	5.3	5.6	5.9	6.2	5.3	5.6
STALLION	6.0	5.7	6.0	5.9	5.4	5.5	5.8	5.4	5.4	5.7	6.2	4.8	5.6
TOEKA (WVPB-88-PR-D-10)	5.7	6.3	6.2	6.0	5.6	5.6	5.4	5.4	5.4	5.5	5.7	5.8	5.6
RIVIERA	6.3	5.7	6.5	5.6	5.2	5.6	5.8	5.6	5.6	6.0	6.5	4.8	5.6
PS 89-90 (MVF 89-90)	6.0	6.3	5.7	6.2	5.6	5.5	5.2	5.3	5.7	6.2	6.3	4.7	5.6
CUTLESS	6.0	6.0	6.2	5.9	5.6	5.5	5.6	5.5	5.3	5.7	6.3	4.5	5.5
GATOR	6.0	6.3	6.2	5.9	5.8	5.5	5.5	5.3	5.4	6.2	6.2	4.8	5.5
BAR LP 852	5.3	5.7	5.8	5.7	5.4	5.5	5.6	5.5	5.2	5.9	6.2	5.2	5.5
ZPS-2EZ	5.3	5.7	6.5	6.1	5.3	5.7	5.4	5.6	5.8	6.0	6.5	4.2	5.5
UNKNOWN	5.7	5.7	6.0	5.9	5.1	5.6	5.6	5.5	5.4	5.9	6.2	5.0	5.5
PR 9118	5.0	5.3	6.0	6.2	5.5	5.5	5.4	5.6	5.2	6.0	6.2	4.5	5.5
CORSAIR (MVF 89-88)	6.0	6.0	5.8	6.2	5.6	5.6	5.3	5.4	5.4	5.8	6.0	4.5	5.5
ELITE (WVPB-88-PR-C-23)	6.0	5.3	6.3	6.0	5.6	5.4	5.4	5.5	5.3	5.7	5.8	4.8	5.5
PR 9109	5.7	6.0	5.8	5.9	5.4	5.7	5.4	5.3	5.5	5.7	5.8	5.2	5.5
NOMAD	5.7	5.3	5.8	6.0	5.6	5.7	5.3	5.0	5.0	5.9	6.0	5.3	5.5
CARI (ZW 42-176)	6.0	6.0	6.2	5.9	5.5	5.4	5.4	5.4	5.4	5.6	6.0	5.3	5.5
C-21	5.7	5.3	5.7	5.9	5.3	5.6	5.5	5.3	5.1	5.6	5.8	4.8	5.5
COWBOY II (WM-II)	5.7	5.7	5.8	6.0	5.2	5.6	5.7	5.2	5.2	5.7	5.5	4.7	5.5
NEWLINN (N-33)	5.7	6.0	6.2	5.6	5.4	5.5	5.4	5.5	5.3	6.2	6.3	4.8	5.4
PENNANT	6.3	6.3	5.8	5.7	4.9	5.4	5.7	5.4	5.0	5.6	5.7	5.3	5.4
CALYPSO	6.0	6.0	6.0	5.8	5.2	5.5	5.5	5.3	5.4	5.5	6.0	4.2	5.4
LINDSAY	5.7	5.7	6.2	5.9	5.5	5.5	5.3	5.2	5.3	5.5	6.2	4.2	5.4
PR 9108	6.0	6.3	6.3	5.7	5.6	5.5	5.4	5.2	5.5	5.9	5.8	4.2	5.4
EEG 358	5.3	5.0	5.8	5.7	5.7	5.7	5.3	5.3	5.2	5.3	5.8	3.7	5.4
ACCOLADE	5.7	6.3	5.8	5.6	5.2	5.5	5.4	5.3	5.6	5.7	5.8	5.2	5.4
CITATION II	5.3	5.0	6.0	5.5	5.3	5.4	5.7	5.6	5.4	5.5	5.8	3.3	5.4
BARRAGE	5.3	5.3	5.8	5.6	5.4	5.6	5.3	5.4	5.0	5.5	6.2	4.3	5.4
EVENING SHADE (POLY-SH)	5.7	6.0	6.8	6.2	5.7	5.5	5.3	5.1	5.1	5.6	6.0	4.2	5.4
COMMANDER	6.0	6.0	6.3	6.0	5.4	5.4	5.3	5.3	5.0	5.9	5.8	5.0	5.4

TABLE 2.  
(CONT'D)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH  
MONTH GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MOM LP 3184	5.3	5.7	5.7	5.4	5.2	5.2	5.6	5.7	5.5	5.7	6.0	3.5	5.4
PREMIER	5.0	5.7	6.5	5.4	5.1	5.5	5.4	5.3	5.4	5.9	5.2	4.5	5.3
DERBY SUPREME	5.3	5.7	6.3	5.8	5.1	5.5	5.4	5.2	5.1	5.7	5.8	4.3	5.3
MULLIGAN (NK 89001)	6.0	6.0	5.7	5.5	5.0	5.6	5.2	5.4	5.4	5.7	5.8	4.3	5.3
PATRIOT II	5.0	5.7	6.2	6.0	5.3	5.5	5.3	5.1	5.1	5.7	6.0	4.5	5.3
RODEO II	5.0	5.7	6.2	6.1	5.2	5.5	5.2	5.2	5.0	6.0	6.3	4.5	5.3
BAR LP 086FL	5.3	6.0	5.7	5.5	4.9	5.3	5.3	5.3	5.1	5.8	6.3	4.8	5.3
LORETTA	5.0	5.7	5.0	5.7	5.3	5.4	5.0	5.1	5.1	5.5	5.3	3.8	5.2
TAYA	5.7	5.3	6.0	5.9	5.4	5.4	5.0	5.0	5.0	5.1	5.3	3.8	5.2
REGAL	5.7	5.3	6.5	5.1	4.9	5.7	5.1	5.3	5.5	5.9	6.0	3.5	5.2
CALIENTE	5.7	6.0	5.8	5.2	4.9	5.4	5.4	5.4	5.2	5.3	5.5	3.7	5.2
ALLEGRO	5.3	5.7	5.7	5.5	5.3	5.5	5.2	4.9	4.7	5.1	5.3	4.2	5.2
DUET	4.7	5.3	5.5	5.4	4.9	5.4	5.3	5.0	5.0	5.4	5.3	5.3	5.2
CLP 39	5.3	5.7	5.2	5.8	5.4	5.4	4.8	4.9	4.8	5.2	6.0	4.3	5.2
BOARDWALK (OFI-D4)	5.7	5.3	5.5	6.0	5.1	5.3	5.1	4.9	4.6	5.4	5.8	4.2	5.1
856	6.0	5.3	5.8	5.5	4.9	5.2	4.9	5.1	5.0	5.9	5.5	5.0	5.1
CLP 144	5.7	5.3	5.5	5.4	5.6	5.2	4.8	4.8	4.8	5.2	6.0	3.8	5.1
DANILO	5.7	5.3	5.5	5.1	4.9	5.4	5.3	5.1	4.8	5.2	5.3	3.3	5.1
MOM LP 3182	5.3	5.0	5.3	5.4	4.9	5.3	5.0	5.0	5.2	5.2	5.5	4.7	5.1
MOM LP 3185	5.3	5.0	5.7	5.3	4.6	5.2	5.3	5.0	4.9	5.1	5.5	3.5	5.0
TORONTO	5.3	5.7	5.3	5.4	5.1	5.1	4.8	4.8	4.8	5.4	5.8	4.2	5.0
DANARO	5.0	5.0	5.5	5.2	4.8	5.1	5.0	5.0	4.7	5.1	5.2	3.8	5.0
PENNFINE	5.7	5.0	5.5	5.1	4.6	5.3	5.0	5.1	4.8	5.3	5.3	3.7	5.0
ENTRAR	5.3	5.0	5.2	5.2	5.1	4.8	4.7	4.8	4.3	5.1	6.0	4.0	4.9
OVATION	6.0	6.0	5.3	5.0	4.6	5.0	5.0	5.2	4.6	5.1	5.0	3.7	4.9
MOM LP 3111	5.3	5.7	4.8	5.2	4.7	5.0	4.8	4.8	4.6	4.6	4.8	3.8	4.8
GOALIE	5.0	5.0	5.3	5.6	4.7	4.8	4.6	4.8	4.8	5.1	4.8	3.2	4.8
MOM LP 3179	5.0	5.0	5.2	5.0	4.5	5.1	4.9	4.8	4.6	5.1	5.3	3.7	4.8
SURPRISE	6.0	5.3	5.2	5.1	4.6	4.7	4.6	4.6	4.3	5.0	5.8	3.7	4.7
METEOR	5.7	5.0	5.2	5.0	4.9	4.9	4.7	4.1	4.0	4.8	5.0	3.7	4.7
TROUBADOUR	5.7	4.7	5.0	5.0	4.9	4.7	4.5	4.4	4.1	5.0	5.8	3.7	4.6
CARTEL	4.7	5.0	5.2	5.1	4.4	4.7	4.4	4.4	4.0	4.3	4.8	2.7	4.5
LINN	3.7	3.3	3.3	3.0	3.0	3.4	2.9	3.0	2.9	3.3	2.8	2.5	3.1
LSD VALUE	0.9	0.9	0.9	0.7	0.7	0.7	0.8	0.9	0.8	1.1	1.2	1.8	0.6

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).

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TWELVE LOCATIONS IN THE U.S. 1/  
1994 DATA

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

NAME	DC1	IA1	IL2	KY1	MI1	NJ1	OR7	OR9	RI1	UB1	VA1	WA1	MEAN
PRIZM (ZPS-28D)	70.5	100.5	5.0	17.5	107.5	3.5	8.0	1.0	15.5	10.0	2.0	20.5	1
STALLION SELECT (PS-105)	36.0	13.0	3.0	10.0	80.5	3.5	17.5	44.5	2.0	17.0	58.0	13.5	2
AFFINITY (GEN-90)	25.0	13.0	7.0	42.0	62.5	22.5	3.5	16.0	57.0	17.0	4.0	20.5	3
BRIGHTSTAR (PST-GH-89)	86.0	110.0	27.0	64.0	55.0	1.0	1.0	53.5	11.5	1.0	8.5	2.0	4
YORKTOWN III (IDRF)	14.0	46.0	18.0	6.5	113.0	42.5	8.0	5.5	1.0	15.0	36.5	4.0	5
PRELUDE II (2P2-90)	91.0	46.0	1.0	82.5	70.0	27.0	8.0	3.0	15.5	6.0	20.5	29.0	6
CUTTER (PICK 89-4)	91.0	13.0	23.5	46.5	80.5	9.5	8.0	23.0	40.0	4.0	3.0	7.5	7
SEVILLE	37.5	74.0	11.0	92.5	80.5	9.5	12.0	19.0	6.0	10.0	5.0	36.5	8
REPELL II (LDRD)	91.0	46.0	27.0	26.0	107.5	7.0	3.5	4.0	27.0	2.5	12.5	29.0	9
WIND STAR (PST-28M)	80.5	46.0	13.0	13.0	45.5	31.0	30.0	19.0	3.5	2.5	52.0	13.5	10
APM	52.5	29.5	14.0	57.0	87.5	29.0	23.5	5.5	21.5	8.0	27.0	13.5	11
MORNING STAR (SYN-P)	10.5	87.0	2.0	34.0	55.0	22.5	63.5	7.5	24.5	28.5	12.5	56.5	12
LYNX (PICK EEC)	14.0	4.0	65.5	21.5	24.0	14.0	71.0	7.5	11.5	22.5	16.5	2.0	13
RIVIERA II (PICK DKM)	70.5	29.5	16.0	13.0	92.0	13.0	53.5	9.0	18.5	12.5	19.0	20.5	14
PST-290	80.5	29.5	11.0	17.5	80.5	15.0	5.0	13.5	29.5	30.0	38.5	7.5	15
GETTYSBURG	77.0	29.5	16.0	69.0	3.5	5.5	49.0	28.5	24.5	26.0	12.5	45.5	16
DELAWARE DWARF (4DD)	41.5	6.5	4.0	42.0	45.5	27.0	23.5	56.0	34.0	37.0	42.0	20.5	17
NIGHTHAWK (WVPB-89-PR-A-3)	98.5	74.0	6.0	1.0	80.5	5.5	37.0	32.5	34.0	22.5	55.0	29.0	18
ASSURE	41.5	21.0	41.5	92.5	18.5	35.0	63.5	2.0	15.5	10.0	32.5	7.5	19
PALMER II (P89)	86.0	107.0	37.0	3.5	116.5	18.0	47.0	19.0	3.5	6.0	7.0	2.0	20
ADVENT	25.0	74.0	20.0	92.5	11.0	22.5	77.0	39.5	5.0	14.0	8.5	20.5	21
NAVAJO (PST-2DER)	32.0	46.0	33.0	34.0	24.0	42.5	17.5	39.5	40.0	41.5	23.5	13.5	22
PINNACLE	96.0	87.0	29.0	6.5	24.0	8.0	37.0	19.0	40.0	19.0	81.5	20.5	23
ACHIEVER (PICK 1800)	52.5	46.0	11.0	13.0	92.0	12.0	84.5	23.0	27.0	48.5	12.5	36.5	24
PASSPORT (PST-2FF)	80.5	74.0	58.0	6.5	45.5	37.5	2.0	35.5	72.0	12.5	16.5	29.0	25
TARGET	91.0	46.0	37.0	34.0	3.5	47.0	67.0	19.0	21.5	32.5	18.0	29.0	26
GREENLAND (PICK 9100)	66.0	46.0	23.5	64.0	107.5	51.0	30.0	30.0	11.5	6.0	81.5	13.5	27
DANDY	5.5	6.5	71.5	26.0	70.0	25.0	43.5	46.5	15.5	37.0	64.5	36.5	28
QUICKSTART (PST-2FQR)	70.5	74.0	37.0	49.5	55.0	2.0	53.5	37.5	50.0	32.5	76.0	56.5	29
PST-23C	4.0	74.0	50.0	17.5	98.5	31.0	43.5	32.5	31.5	37.0	100.5	29.0	30
EXPRESS	61.5	21.0	9.0	34.0	35.5	47.0	113.0	13.5	40.0	20.0	52.0	64.5	31
89-666	18.5	61.0	47.5	3.5	103.0	22.5	77.0	89.0	8.0	22.5	12.5	64.5	32
PRECISION (MOM LP 3147)	32.0	74.0	44.0	6.5	113.0	18.0	43.5	57.0	21.5	44.5	30.0	72.5	33
SR 4200	117.0	13.0	74.0	46.5	92.0	11.0	17.5	65.5	7.0	17.0	34.5	36.5	34
PST-2ROR	18.5	21.0	90.0	21.5	29.5	49.0	53.5	11.0	68.5	44.5	71.5	7.5	35
LEGACY	9.0	107.0	40.0	57.0	121.0	18.0	92.5	35.5	31.5	26.0	23.5	7.5	36
SHERWOOD	18.5	46.0	41.5	121.0	11.0	45.0	37.0	23.0	102.5	48.5	56.0	7.5	37
PRONTO (WVPB-89-87A)	29.0	21.0	27.0	34.0	18.5	64.0	84.5	42.5	44.5	41.5	94.0	64.5	38
SHINING STAR (EST-2B3)	41.5	21.0	62.0	42.0	70.0	27.0	71.0	11.0	57.0	56.0	52.0	64.5	39
BUCCANEER (KOOS 90-1)	118.5	29.5	32.0	17.5	80.5	18.0	104.5	37.5	63.5	28.5	6.0	56.5	40
PST-2OG	75.0	21.0	52.5	73.0	70.0	64.0	23.5	27.0	63.5	48.5	30.0	45.5	41
PR 9121	52.5	100.5	44.0	105.0	92.0	69.0	23.5	25.5	11.5	32.5	32.5	56.5	42
EQUAL	104.5	61.0	58.0	17.5	92.0	42.5	43.5	65.5	9.0	26.0	42.0	45.5	43
ENVY	14.0	87.0	100.0	64.0	6.0	33.0	30.0	61.5	50.0	37.0	58.0	45.5	44
PR 9119	98.5	3.0	49.0	57.0	55.0	51.0	37.0	32.5	63.5	48.5	76.0	72.5	45

TABLE 3.  
(CONT'D)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

NAME	QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING												
	DC1	IA1	IL2	KY1	MI1	NJ1	OR7	OR9	RI1	UB1	VA1	WA1	MEAN
ESSENCE (PR 8820)	52.5	93.5	63.0	92.5	7.5	79.5	17.5	25.5	63.5	41.5	64.5	29.0	46
ELEGANCE (OFI-F7)	98.5	119.0	8.0	26.0	107.5	18.0	98.5	28.5	63.5	22.5	36.5	88.0	47
REPELL	52.5	93.5	20.0	64.0	24.0	97.5	30.0	81.5	50.0	48.5	12.5	56.5	48
MANHATTAN II (E)	70.5	46.0	20.0	34.0	107.5	47.0	63.5	49.0	98.0	56.0	64.5	36.5	49
CHARGER	70.5	2.0	69.0	34.0	65.5	55.0	63.5	11.0	91.0	61.0	100.5	45.5	50
COMPETITOR	86.0	74.0	52.5	105.0	55.0	55.0	37.0	32.5	79.0	41.5	48.0	56.5	51
DIMENSION (2H7)	101.0	46.0	73.0	82.5	45.5	37.5	30.0	15.0	107.5	53.0	76.0	45.5	52
PLEASURE	110.0	46.0	34.0	34.0	80.5	39.5	77.0	70.0	50.0	71.0	27.0	45.5	53
HE 311	80.5	1.0	90.0	100.5	80.5	71.0	30.0	51.0	40.0	63.0	45.0	20.5	54
FIESTA II	46.5	29.5	84.5	52.0	1.0	66.5	63.5	74.0	34.0	63.0	64.5	45.5	55
SATURN	25.0	100.5	47.5	23.0	24.0	60.0	77.0	59.0	84.0	63.0	100.5	36.5	56
KOOS 90-2	104.5	46.0	30.5	92.5	62.5	39.5	98.5	49.0	27.0	56.0	85.5	56.5	57
BARRAGE ++	1.0	13.0	23.5	64.0	80.5	108.5	108.0	110.0	50.0	86.0	1.0	112.5	58
LOWGROW (PICK 89LLG)	110.0	46.0	65.5	120.0	40.5	88.0	8.0	53.5	91.0	32.5	30.0	13.5	59
STATESMAN (WVPB-88-PR-D-12)	67.0	46.0	84.5	79.5	55.0	31.0	53.5	49.0	40.0	59.5	94.0	72.5	60
CHARISMA (WVPB 89-92)	104.5	13.0	90.0	69.0	45.5	42.5	53.5	65.5	81.5	37.0	42.0	82.0	61
240 (PEBBLE BEACH)	46.5	100.5	79.0	57.0	107.5	76.5	12.0	58.0	72.0	48.5	58.0	45.5	62
STALLION	75.0	87.0	37.0	34.0	35.5	60.0	43.5	72.0	50.0	92.0	114.5	82.0	63
TOPEKA (WVPB-88-PR-D-10)	86.0	93.5	30.5	92.5	24.0	60.0	84.5	79.5	72.0	90.0	64.5	29.0	64
RIVIERA	80.5	46.0	75.0	46.5	98.5	35.0	92.5	65.5	18.5	66.0	81.5	72.5	65
PS 89-90 (MVF 89-90)	52.5	46.0	46.0	100.5	45.5	70.0	98.5	77.0	36.0	71.0	64.5	56.5	66
CUTLESS	7.5	6.5	84.5	87.0	116.5	91.0	59.0	61.5	63.5	56.0	42.0	72.5	67
GATOR	18.5	29.5	98.0	64.0	24.0	73.5	88.5	68.5	44.5	74.0	23.5	82.0	68
BAR LP 852	80.5	74.0	44.0	96.0	14.0	66.5	53.5	94.0	72.0	74.0	100.5	56.5	69
ZPS-2EZ	118.5	107.0	37.0	26.0	121.0	35.0	102.0	44.5	57.0	56.0	88.0	45.5	70
UNKNOWN	86.0	46.0	58.0	42.0	9.0	87.0	92.5	77.0	109.0	76.5	20.5	72.5	71
PR 9118	52.5	29.5	65.5	42.0	35.5	72.0	82.0	85.0	91.0	68.0	91.0	88.0	72
CORSAIR (MVF 89-88)	25.0	29.5	52.5	77.0	31.0	84.0	77.0	77.0	81.5	76.5	42.0	107.5	73
ELITE (WVPB-88-PR-C-23)	61.5	13.0	78.0	87.0	87.5	60.0	37.0	61.5	91.0	82.0	85.5	82.0	74
PR 9109	61.5	107.0	71.5	73.0	80.5	79.5	17.5	83.0	98.0	59.5	48.0	101.5	75
NOMAD	7.5	93.5	110.0	26.0	14.0	85.0	30.0	94.0	81.5	100.5	88.0	20.5	76
CAPRI (ZW 42-176)	61.5	74.0	80.5	105.0	45.5	68.0	43.5	53.5	50.0	86.0	91.0	72.5	77
C-21	25.0	6.5	84.5	34.0	16.5	82.0	59.0	101.0	102.5	102.5	71.5	92.5	78
COWBOY II (WM-II)	110.0	46.0	65.5	73.0	103.0	76.5	48.0	74.0	72.0	98.5	64.5	45.5	79
NEWLINN (N-33)	75.0	74.0	58.0	73.0	121.0	55.0	98.5	53.5	68.5	66.0	71.5	97.5	80
PENNANT	61.5	100.5	100.0	115.5	16.5	55.0	17.5	74.0	102.5	86.0	76.0	82.0	81
CALYPSO	41.5	74.0	52.5	87.0	80.5	93.5	84.5	81.5	63.5	93.5	48.0	82.0	82
LINDSAY	25.0	13.0	97.0	97.5	40.5	92.0	68.5	84.0	50.0	79.5	64.5	82.0	83
PR 9108	114.0	93.5	69.0	34.0	65.5	79.5	68.5	46.5	76.5	79.5	100.5	97.5	84
EEG 358	12.0	100.5	90.0	10.0	3.5	102.5	17.5	116.0	91.0	69.0	71.5	114.0	85
ACCOLADE	104.5	113.5	69.0	57.0	55.0	55.0	63.5	71.0	91.0	96.0	81.5	72.5	86
CITATION II	32.0	46.0	16.0	73.0	35.5	99.5	119.0	79.5	119.5	79.5	94.0	82.0	87
BARRAGE	2.0	61.0	58.0	100.5	55.0	111.0	88.5	102.5	40.0	90.0	38.5	101.5	88
EVENING SHADE (POLY-SH)	122.0	74.0	95.0	10.0	14.0	86.0	71.0	41.0	110.0	52.0	117.0	64.5	89
COMMANDER	5.5	46.0	112.0	79.5	55.0	60.0	108.0	68.5	111.5	83.0	64.5	72.5	90

TABLE 3.  
(CONT'D)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
GROWN AT TWELVE LOCATIONS IN THE U.S.  
1994 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	DC1	IA1	IL2	KY1	MI1	NJ1	OR7	OR9	RI1	UB1	VA1	WA1	MEAN
MOM LP 3184	35.0	100.5	58.0	57.0	55.0	90.0	111.0	91.0	29.5	96.0	81.5	92.5	91
PREMIER	98.5	87.0	58.0	17.5	35.5	73.5	98.5	110.0	76.5	110.0	34.5	107.5	92
DERBY SUPREME	70.5	21.0	84.5	64.0	62.5	97.5	92.5	94.0	98.0	79.5	76.0	64.5	93
MULLIGAN (NK 89001)	110.0	100.5	76.5	82.5	80.5	79.5	104.5	88.0	63.5	74.0	54.0	72.5	94
PATRIOT II	110.0	74.0	112.0	49.5	55.0	64.0	92.5	61.5	107.5	71.0	114.5	29.0	95
RODEO II	116.0	29.5	90.0	46.5	98.5	51.0	111.0	86.5	81.5	66.0	110.5	92.5	96
BAR LP 086FL	114.0	74.0	106.5	111.0	92.0	75.0	77.0	42.5	50.0	100.5	105.0	56.5	97
LORETTA	3.0	13.0	108.5	82.5	24.0	111.0	77.0	104.0	106.0	107.0	48.0	107.5	98
TAYA	95.0	46.0	95.0	52.0	45.5	106.0	53.5	86.5	122.0	86.0	108.0	82.0	99
REGAL	121.0	119.0	23.5	2.0	113.0	104.0	121.0	112.0	76.5	86.0	23.5	92.5	100
CALIENTE	32.0	113.5	80.5	108.5	29.5	93.5	118.0	98.0	85.5	105.0	27.0	92.5	101
ALLEGRO	37.5	93.5	103.0	77.0	11.0	102.5	17.5	90.0	121.0	98.5	118.0	111.0	102
DUET	120.0	74.0	93.0	69.0	113.0	83.0	37.0	102.5	111.5	96.0	91.0	104.0	103
CLP 39	41.5	87.0	115.0	111.0	3.5	116.0	26.0	100.0	91.0	90.0	110.5	92.5	104
BOARDWALK (OFI-D4)	41.5	87.0	103.0	87.0	70.0	95.0	111.0	105.5	114.5	93.5	88.0	88.0	105
856	32.0	121.0	100.0	57.0	98.5	89.0	87.0	110.0	76.5	107.0	96.0	101.5	106
CLP 144	52.5	46.0	76.5	115.5	103.0	116.0	59.0	97.0	91.0	109.0	100.5	112.5	107
DANILO	10.5	74.0	105.0	108.5	70.0	118.0	116.5	94.0	91.0	107.0	110.5	45.5	108
MOM LP 3182	52.5	119.0	95.0	100.5	62.5	96.0	92.5	121.0	57.0	104.0	64.5	116.5	109
MOM LP 3185	45.0	113.5	103.0	52.0	98.5	113.0	104.5	113.5	21.5	115.0	106.5	97.5	110
TORONTO	18.5	61.0	120.0	77.0	74.0	114.0	77.0	108.0	57.0	117.5	48.0	119.5	111
DANARO	61.5	61.0	108.5	113.5	98.5	101.0	77.0	105.5	102.5	114.0	113.0	107.5	112
PENNFINE	25.0	61.0	117.5	87.0	7.5	106.0	122.0	116.0	98.0	112.0	81.5	101.5	113
ENTRAR	18.5	61.0	121.0	117.5	35.5	106.0	53.5	120.0	114.5	102.5	123.0	119.5	114
OVATION	94.0	74.0	114.0	117.5	35.5	108.5	116.5	94.0	117.5	111.0	106.5	107.5	115
MOM LP 3111	61.5	113.5	119.0	97.5	35.5	116.0	108.0	99.0	119.5	120.5	110.5	97.5	116
GOALIE	91.0	113.5	106.5	111.0	24.0	99.5	123.0	119.0	114.5	120.5	100.5	107.5	117
MOM LP 3179	104.5	122.0	84.5	105.0	113.0	111.0	114.0	118.0	85.5	117.5	100.5	116.5	118
SURPRISE	61.5	113.5	117.5	122.0	92.0	119.0	98.5	107.0	114.5	113.0	119.0	116.5	119
METEOR	114.0	117.0	112.0	119.0	118.5	121.0	12.0	116.0	105.0	119.0	116.0	122.0	120
TROUBADOUR	52.5	74.0	122.0	113.5	70.0	120.0	104.5	113.5	98.0	116.0	121.0	121.0	121
CARTEL	104.5	107.0	116.0	105.0	118.5	122.0	115.0	122.0	117.5	122.0	120.0	116.5	122
LINN	123.0	123.0	123.0	123.0	123.0	123.0	120.0	123.0	123.0	123.0	122.0	123.0	123

- 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. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

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

NAME	KY1
EVENING SHADE (POLY-SH)	7.3
ACCOLADE	7.0
BUCCANEER (KOOS 90-1)	7.0
NIGHTHAWK (WVPB-89-PR-A-3)	7.0
PALMER II (P89)	7.0
PR 9108	7.0
ACHIEVER (PICK 1800)	6.7
COWBOY II (WM-II)	6.7
CUTTER (PICK 89-4)	6.7
DIMENSION (2H7)	6.7
LYNX (PICK EEC)	6.7
PR 9119	6.7
REGAL	6.7
RIVIERA	6.7
RIVIERA II (PICK DKM)	6.7
DELAWARE DWARF (4DD)	6.3
EXPRESS	6.3
GATOR	6.3
PRIZM (ZPS-28D)	6.3
PST-23C	6.3
REPELL II (LIRD)	6.3
SR 4200	6.3
AFFINITY (GEN-90)	6.0
BARRAGE ++	6.0
BRIGHTSTAR (PST-GH-89)	6.0
CAPRI (ZW 42-176)	6.0
CHARISMA (WVEB 89-92)	6.0
DERBY SUPREME	6.0
ELEGANCE (OFI-F7)	6.0
ESSENCE (PR 8820)	6.0
GETTYSBURG	6.0
LINDSAY	6.0
LORETTA	6.0
LOWGROW (PICK 89LLG)	6.0
MOM LP 3182	6.0
PASSPORT (PST-2FF)	6.0
PATRIOT II	6.0
PINNACLE	6.0
PLEASURE	6.0
PR 9118	6.0
PR 9121	6.0
PRECISION (MOM LP 3147)	6.0
PST-290	6.0
PST-2ROR	6.0
SATURN	6.0

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN

NAME	KY1
SHERWOOD	6.0
STALLION SELECT (PS-105)	6.0
240 (PEBBLE BEACH)	5.7
856	5.7
89-666	5.7
ALLEGRO	5.7
BAR LP 086FL	5.7
BOARDWALK (OFI-D4)	5.7
COMMANDER	5.7
COMPETITOR	5.7
CUTLESS	5.7
DUET	5.7
ENTRAR	5.7
ENVY	5.7
EQUAL	5.7
GREENLAND (PICK 9100)	5.7
HE 311	5.7
LEGACY	5.7
METEOR	5.7
MOM LP 3111	5.7
MOM LP 3184	5.7
MORNING STAR (SYN-P)	5.7
OVATION	5.7
PST-20G	5.7
RODEO II	5.7
SEVILLE	5.7
STATESMAN (WVPB-88-PR-D-12)	5.7
TARGET	5.7
TAYA	5.7
TROUBADOUR	5.7
YORKTOWN III (LDRF)	5.7
ADVENT	5.3
APM	5.3
BARRAGE	5.3
C-21	5.3
CARTEL	5.3
CHARGER	5.3
CLP 144	5.3
CORSAIR (MVF 89-88)	5.3
DANDY	5.3
EEG 358	5.3
FIESTA II	5.3
KOOS 90-2	5.3
MANHATTAN II (E)	5.3
MULLIGAN (NK 89001)	5.3



TABLE 4. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
(CONT'D) 1994 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN

NAME	KY1
NAVAJO (PST-2DPR)	5.3
NEWLINN (N-33)	5.3
NOMAD	5.3
PENNFINE	5.3
PRELUDE II (2P2-90)	5.3
PREMIER	5.3
QUICKSTART (PST-2FQR)	5.3
REPELL	5.3
SHINING STAR (PST-2B3)	5.3
STALLION	5.3
TOPEKA (WVPB-88-PR-D-10)	5.3
TORONTO	5.3
WIND STAR (PST-28M)	5.3
ASSURE	5.0
CALIENTE	5.0
CALYPSO	5.0
CITATION II	5.0
CLP 39	5.0
DANARO	5.0
DANILO	5.0
GOALIE	5.0
MCM LP 3179	5.0
MCM LP 3185	5.0
PENNANT	5.0
PR 9109	5.0
PRONTO (WVPB-89-87A)	5.0
PS 89-90 (MVF 89-90)	5.0
SURPRISE	5.0
UNKNOWN	5.0
BAR LP 852	4.7
ELITE (WVPB-88-PR-C-23)	4.7
ZPS-2EZ	4.7
LINN	4.0
LSD VALUE	1.3

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).

TABLE 5.

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 1994 DATA

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

NAME	UB1
89-666	8.0
MULLIGAN (NK 89001)	8.0
DANILO	7.7
GATOR	7.7
HE 311	7.7
LINN	7.7
PENNFINE	7.7
REGAL	7.7
SATURN	7.7
STALLION	7.7
SURPRISE	7.7
ZPS-2EZ	7.7
856	7.3
ACCOLADE	7.3
ADVENT	7.3
ASSURE	7.3
C-21	7.3
CALIENTE	7.3
CALYPSO	7.3
FIESTA II	7.3
MOM LP 3179	7.3
MOM LP 3182	7.3
PINNACLE	7.3
PREMIER	7.3
REPELL	7.3
WIND STAR (PST-28M)	7.3
BOARDWALK (OFI-D4)	7.0
COMPETITOR	7.0
COWBOY II (WM-II)	7.0
DERBY SUPREME	7.0
ELEGANCE (OFI-F7)	7.0
ENVY	7.0
EQUAL	7.0
MOM LP 3185	7.0
PATRIOT II	7.0
PENNANT	7.0
RIVIERA	7.0
SR 4200	7.0
UNKNOWN	7.0
YORKTOWN III (LDRF)	7.0
240 (PEBBLE BEACH)	6.7
ACHIEVER (PICK 1800)	6.7
APM	6.7
BAR LP 086FL	6.7
CLP 144	6.7

 SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
 1994 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	UB1
CLP 39	6.7
DANARO	6.7
DANDY	6.7
EXPRESS	6.7
LEGACY	6.7
LORETTA	6.7
MORNING STAR (SYN-P)	6.7
NEWLINN (N-33)	6.7
PLEASURE	6.7
PR 9109	6.7
PR 9121	6.7
PRELUDE II (2P2-90)	6.7
PRONTO (WVPB-89-87A)	6.7
PST-290	6.7
REPELL II (LDRD)	6.7
SEVILLE	6.7
SHINING STAR (PST-2B3)	6.7
STALLION SELECT (PS-105)	6.7
TARGET	6.7
TOPEKA (WVPB-88-PR-D-10)	6.7
TROUBADOUR	6.7
AFFINITY (GEN-90)	6.3
CAPRI (ZW 42-176)	6.3
CARTEL	6.3
CUTLESS	6.3
DELAWARE DWARF (4DD)	6.3
GETTYSBURG	6.3
GOALIE	6.3
GREENLAND (PICK 9100)	6.3
KOOS 90-2	6.3
MANHATTAN II (E)	6.3
OVATION	6.3
PALMER II (P89)	6.3
PR 9119	6.3
PRIZM (ZPS-28D)	6.3
RODEO II	6.3
SHERWOOD	6.3
TORONTO	6.3
BAR LP 852	6.0
BRIGHTSTAR (PST-GH-89)	6.0
CHARGER	6.0
CHARISMA (WVPB 89-92)	6.0
CITATION II	6.0
COMMANDER	6.0
ESSENCE (PR 8820)	6.0

TABLE 5.  
(CONT'D)

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	UB1
LOWGROW (PICK 89LLG)	6.0
LYNX (PICK EEC)	6.0
MOM LP 3111	6.0
NIGHTHAWK (WVPB-89-PR-A-3)	6.0
NOMAD	6.0
PASSPORT (PST-2FF)	6.0
PR 9108	6.0
PR 9118	6.0
PRECISION (MOM LP 3147)	6.0
PS 89-90 (MVF 89-90)	6.0
STATESMAN (WVPB-88-PR-D-12)	6.0
BARRAGE	5.7
BUCCANEER (KOOS 90-1)	5.7
CORSAIR (MVF 89-88)	5.7
LINDSAY	5.7
MOM LP 3184	5.7
PST-2OG	5.7
QUICKSTART (PST-2FQR)	5.7
RIVIERA II (PICK DKM)	5.7
ALLEGRO	5.3
BARRAGE ++	5.3
CUTTER (PICK 89-4)	5.3
DIMENSION (2H7)	5.3
DUET	5.3
ELITE (WVPB-88-PR-C-23)	5.3
ENTRAR	5.3
PST-23C	5.3
EVENING SHADE (POLY-SH)	5.0
METEOR	5.0
PST-2ROR	5.0
EEG 358	4.7
TAYA	4.7
NAVAJO (PST-2DPR)	4.0
LSD VALUE	1.3

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).

TABLE 6.

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

NAME	RED THREAD RATINGS 1-9; 9=NO DISEASE 1/		
	MI1	NJ1	MEAN
CALYPSO	7.0	7.3	7.2
PREMIER	7.3	6.7	7.0
SHERWOOD	7.3	6.7	7.0
TORONTO	7.3	6.7	7.0
SURPRISE	8.0	5.7	6.8
TARGET	7.0	6.7	6.8
BARRAGE ++	7.3	6.3	6.8
CALIENTE	7.7	5.7	6.7
MULLIGAN (NK 89001)	6.7	6.7	6.7
YORKTOWN III (LDRF)	5.7	7.7	6.7
BARRAGE	8.0	5.3	6.7
MOM LP 3179	7.0	6.3	6.7
MOM LP 3184	8.0	5.3	6.7
PR 9108	7.3	6.0	6.7
SEVILLE	8.0	5.3	6.7
STATESMAN (WVPB-88-PR-D-12)	7.3	6.0	6.7
UNKNOWN	6.3	7.0	6.7
ACCOLADE	7.0	6.0	6.5
CAPRI (ZW 42-176)	7.3	5.7	6.5
CLP 39	8.0	5.0	6.5
COMMANDER	6.7	6.3	6.5
DIMENSION (2H7)	6.7	6.3	6.5
ELEGANCE (OFI-F7)	6.3	6.7	6.5
ESSENCE (PR 8820)	7.3	5.7	6.5
HE 311	6.3	6.7	6.5
OVATION	7.7	5.3	6.5
PRIZM (ZPS-28D)	6.7	6.3	6.5
REGAL	6.7	6.3	6.5
ADVENT	7.0	5.7	6.3
APM	6.0	6.7	6.3
ASSURE	7.0	5.7	6.3
EVENING SHADE (POLY-SH)	7.0	5.7	6.3
GATOR	7.7	5.0	6.3
LINN	6.0	6.7	6.3
METEOR	6.7	6.0	6.3
PENNFINE	6.7	6.0	6.3
PINNACLE	7.7	5.0	6.3
PR 9118	7.0	5.7	6.3
STALLION SELECT (PS-105)	6.0	6.7	6.3
CARTEL	7.3	5.3	6.3
LYNX (PICK EEC)	6.3	6.3	6.3
QUICKSTART (PST-2FQR)	6.3	6.3	6.3
WIND STAR (PST-28M)	7.3	5.3	6.3
CUTTER (PICK 89-4)	6.7	5.7	6.2
MOM LP 3182	5.7	6.7	6.2

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

NAME	RED THREAD RATINGS 1-9; 9=NO DISEASE		
	MI1	NJ1	MEAN
FENNANT	6.7	5.7	6.2
PRELUDE II (2P2-90)	5.7	6.7	6.2
AFFINITY (GEN-90)	6.3	6.0	6.2
BAR LP 086FL	6.0	6.3	6.2
CLP 144	7.3	5.0	6.2
MORNING STAR (SYN-P)	6.3	6.0	6.2
FRONTO (WVPB-89-87A)	7.0	5.3	6.2
REPELL II (LDRD)	6.0	6.3	6.2
SR 4200	6.3	6.0	6.2
ZPS-2EZ	7.0	5.3	6.2
856	6.3	5.7	6.0
ACHIEVER (PICK 1800)	6.7	5.3	6.0
BUCCANEER (KOOS 90-1)	7.3	4.7	6.0
CHARGER	6.3	5.7	6.0
CHARISMA (WVPB 89-92)	7.0	5.0	6.0
COWBOY II (WM-II)	6.3	5.7	6.0
ELITE (WVPB-88-PR-C-23)	7.0	5.0	6.0
LORETTA	8.0	4.0	6.0
MOM LP 3185	7.7	4.3	6.0
NOMAD	6.0	6.0	6.0
PS 89-90 (MVF 89-90)	7.0	5.0	6.0
REPELL	5.7	6.3	6.0
RIVIERA	7.3	4.7	6.0
SATURN	6.7	5.3	6.0
TAYA	6.7	5.3	6.0
TROUBADOUR	6.7	5.3	6.0
89-666	6.0	5.7	5.8
BOARDWALK (OFI-D4)	6.0	5.7	5.8
C-21	6.7	5.0	5.8
DANARO	7.0	4.7	5.8
DANDY	5.7	6.0	5.8
DANILO	7.0	4.7	5.8
ENVY	7.0	4.7	5.8
FIESTA II	7.7	4.0	5.8
LINDSAY	6.7	5.0	5.8
MANHATTAN II (E)	5.7	6.0	5.8
NAVAJO (PST-2DPR)	7.0	4.7	5.8
NEWLINN (N-33)	5.7	6.0	5.8
PATRIOT II	6.7	5.0	5.8
PST-290	6.0	5.7	5.8
TOPEKA (WVPB-88-PR-D-10)	6.7	5.0	5.8
LEGACY	6.3	5.3	5.8
RIVIERA II (PICK DKM)	6.3	5.3	5.8
CUTLESS	5.7	5.7	5.7
DELAWARE DWARF (4DD)	6.7	4.7	5.7

TABLE 6. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
(CONT'D) 1994 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE			
NAME	MI1	NJ1	MEAN
DERBY SUPREME	6.7	4.7	5.7
NIGHTHAWK (WVPB-89-PR-A-3)	6.7	4.7	5.7
BRIGHTSTAR (PST-GH-89)	6.3	5.0	5.7
CITATION II	6.3	5.0	5.7
COMPETITOR	7.0	4.3	5.7
EEG 358	7.3	4.0	5.7
EXPRESS	6.0	5.3	5.7
GREENLAND (PICK 9100)	6.3	5.0	5.7
KOOS 90-2	6.0	5.3	5.7
MOM LP 3111	6.3	5.0	5.7
PALMER II (P89)	6.0	5.3	5.7
PASSPORT (PST-2FF)	6.3	5.0	5.7
PR 9109	6.0	5.3	5.7
PRECISION (MOM LP 3147)	7.0	4.3	5.7
PST-23C	6.0	5.3	5.7
ALLEGRO	7.0	4.0	5.5
CORSAIR (MF 89-88)	6.3	4.7	5.5
ENTRAR	6.7	4.3	5.5
EQUAL	5.7	5.3	5.5
PLEASURE	6.0	5.0	5.5
PR 9119	6.7	4.3	5.5
PR 9121	6.0	5.0	5.5
PST-20G	6.3	4.7	5.5
SHINING STAR (PST-2B3)	6.7	4.3	5.5
STALLION	6.0	5.0	5.5
GETTYSBURG	6.7	4.0	5.3
LOWGROW (PICK 89LLG)	6.7	4.0	5.3
RODEO II	5.3	5.3	5.3
PST-2ROR	5.7	4.7	5.2
BAR LP 852	7.3	3.0	5.2
DUET	7.3	3.0	5.2
240 (PEBBLE BEACH)	6.7	2.7	4.7
GOALIE	6.3	3.0	4.7
LSD VALUE	1.8	2.1	1.4

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).

TABLE 7.

BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

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

NAME	NJ1
APM	7.0
CITATION II	7.0
HE 311	7.0
PRIZM (ZPS-28D)	7.0
BUCCANEER (KOOS 90-1)	6.7
DELAWARE DWARF (4DD)	6.7
TARGET	6.7
LYNX (PICK EEC)	6.3
MULLIGAN (NK 89001)	6.3
SATURN	6.3
SEVILLE	6.3
MANHATTAN II (E)	6.0
MOM LP 3179	6.0
PREMIER	6.0
PST-290	6.0
WIND STAR (EST-28M)	6.0
ACHIEVER (PICK 1800)	5.7
ADVENT	5.7
BRIGHTSTAR (PST-GH-89)	5.7
CALIENTE	5.7
DANILO	5.7
DIMENSION (2H7)	5.7
EQUAL	5.7
EXPRESS	5.7
GETTYSBURG	5.7
PALMER II (P89)	5.7
PR 9121	5.7
PRECISION (MOM LP 3147)	5.7
UNKNOWN	5.7
YORKTOWN III (LDRF)	5.7
ASSURE	5.3
CHARGER	5.3
DANDY	5.3
MOM LP 3184	5.3
MORNING STAR (SYN-P)	5.3
PRELUDE II (2P2-90)	5.3
PST-20G	5.3
SHINING STAR (PST-2B3)	5.3
AFFINITY (GEN-90)	5.0
CALYPSO	5.0
CUTTER (PICK 89-4)	5.0
ENVY	5.0
GREENLAND (PICK 9100)	5.0
LOWGROW (PICK 89LLG)	5.0
PASSPORT (PST-2FF)	5.0

BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	NJ1
PENNANT	5.0
PRONTO (WVPB-89-87A)	5.0
RIVIERA	5.0
RIVIERA II (PICK DKM)	5.0
SHERWOOD	5.0
STALLION	5.0
89-666	4.7
ACCOLADE	4.7
BAR LP 086FL	4.7
BARRAGE ++	4.7
COMMANDER	4.7
COMPETITOR	4.7
CORSAIR (MVF 89-88)	4.7
DUET	4.7
GATOR	4.7
KOOS 90-2	4.7
NIGHTHAWK (WVFB-89-PR-A-3)	4.7
PINNACLE	4.7
PR 9109	4.7
PST-23C	4.7
QUICKSTART (PST-2FQR)	4.7
REGAL	4.7
REPELL II (LDRD)	4.7
RODEO II	4.7
SR 4200	4.7
STALLION SELECT (PS-105)	4.7
ZPS-2EZ	4.7
C-21	4.3
CAPRI (ZW 42-176)	4.3
ENTRAR	4.3
FIESTA II	4.3
LEGACY	4.3
METEOR	4.3
NAVAJO (PST-2DPR)	4.3
PST-2ROR	4.3
STATESMAN (WVFB-88-PR-D-12)	4.3
BAR LP 852	4.0
BARRAGE	4.0
EEG 358	4.0
ELEGANCE (OFI-F7)	4.0
ELITE (WVPB-88-PR-C-23)	4.0
MOM LP 3182	4.0
MOM LP 3185	4.0
NOMAD	4.0
PLEASURE	4.0

TABLE 7.  
(CONT'D)

BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	NJ1
PS 89-90 (MVF 89-90)	4.0
REPELL	4.0
240 (PEBBLE BEACH)	3.7
ALLEGRO	3.7
BOARDWALK (OFI-D4)	3.7
CHARISMA (WVPB 89-92)	3.7
EVENING SHADE (POLY-SH)	3.7
OVATION	3.7
PENNFINE	3.7
PR 9108	3.7
PR 9118	3.7
TCRONTO	3.7
TROUBADOUR	3.7
856	3.3
COWBOY II (WM-II)	3.3
CUTLESS	3.3
DANARO	3.3
DERBY SUPREME	3.3
LINN	3.3
MCM LP 3111	3.3
PATRIOT II	3.3
PR 9119	3.3
TOPEKA (WVPB-88-PR-D-10)	3.3
ESSENCE (PR 8820)	3.0
GOALIE	3.0
LINDSAY	3.0
LORETTA	3.0
NEWLINN (N-33)	3.0
TAYA	3.0
CIP 39	2.7
CARTEL	2.3
CIP 144	2.3
SURPRISE	2.3
LSD VALUE	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).

TABLE 8. BROWN BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

BROWN BLIGHT RATINGS 1-9; 9=NO DISEASE 1/

NAME	OR9
YORKTOWN III (LDRF)	7.0
EQUAL	6.3
ADVENT	6.0
PRELUDE II (2P2-90)	6.0
TOPEKA (WVPB-88-PR-D-10)	6.0
WIND STAR (PST-28M)	6.0
ACCOLADE	5.7
DANDY	5.7
HE 311	5.7
PATRIOT II	5.7
PRECISION (MCM LP 3147)	5.7
PST-290	5.7
RIVIERA	5.7
RODEO II	5.7
STATESMAN (WVPB-88-PR-D-12)	5.7
AFFINITY (GEN-90)	5.3
C-21	5.3
COWBOY II (WM-II)	5.3
EVENING SHADE (POLY-SH)	5.3
EXPRESS	5.3
KOOS 90-2	5.3
PINNACLE	5.3
PRONTO (WVPB-89-87A)	5.3
PS 89-90 (MVF 89-90)	5.3
89-666	5.0
CAPRI (ZW 42-176)	5.0
CHARGER	5.0
CITATION II	5.0
CLP 39	5.0
DANILO	5.0
DIMENSION (2H7)	5.0
FIESTA II	5.0
GATOR	5.0
LOWGROW (PICK 89LLG)	5.0
NOMAD	5.0
PALMER II (P89)	5.0
PASSPORT (PST-2FF)	5.0
PENNANT	5.0
PR 9108	5.0
PRIZM (ZPS-28D)	5.0
REGAL	5.0
SURPRISE	5.0
TROUBADOUR	5.0
856	4.7
ACHIEVER (PICK 1800)	4.7

BROWN BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

BROWN BLIGHT RATINGS 1-9; 9=NO DISEASE

NAME	OR9
ASSURE	4.7
BARRAGE	4.7
BOARDWALK (OFI-D4)	4.7
BRIGHTSTAR (PST-GH-89)	4.7
CALYPSO	4.7
CHARISMA (WVFB 89-92)	4.7
DELAWARE DWARF (4DD)	4.7
DERBY SUPREME	4.7
ESSENCE (PR 8820)	4.7
GREENLAND (PICK 9100)	4.7
LYNX (PICK EEC)	4.7
MORNING STAR (SYN-P)	4.7
PR 9109	4.7
PR 9119	4.7
REPELL	4.7
REPELL II (LDRD)	4.7
SEVILLE	4.7
SHINING STAR (PST-2B3)	4.7
STALLION	4.7
STALLION SELECT (PS-105)	4.7
TARGET	4.7
TORONTO	4.7
ZPS-2EZ	4.7
BARRAGE ++	4.3
CORSAIR (MVF 89-88)	4.3
CUTLESS	4.3
ELEGANCE (OFI-F7)	4.3
GETTYSBURG	4.3
LINDSAY	4.3
MANHATTAN II (E)	4.3
MOM LP 3111	4.3
PENNFINE	4.3
PST-23C	4.3
RIVIERA II (PICK DKM)	4.3
SATURN	4.3
SR 4200	4.3
UNKNOWN	4.3
APM	4.0
BAR LP 086FL	4.0
BUCCANEER (KOOS 90-1)	4.0
CALIENTE	4.0
CUTTER (PICK 89-4)	4.0
MULLIGAN (NK 89001)	4.0
OVATION	4.0
PLEASURE	4.0



TABLE 8. BROWN BLIGHT RATINGS OF PERENNIAL RYEGRASS CULTIVARS  
(CONT'D) 1994 DATA

BROWN BLIGHT RATINGS 1-9; 9=NO DISEASE

NAME	OR9
PR 9121	4.0
PREMIER	4.0
PST-2OG	4.0
QUICKSTART (PST-2FQR)	4.0
TAYA	4.0
240 (PEBBLE BEACH)	3.7
ALLEGRO	3.7
CARTEL	3.7
CLP 144	3.7
COMMANDER	3.7
COMPETITOR	3.7
DANARO	3.7
ELITE (WVPB-88-PR-C-23)	3.7
LEGACY	3.7
NEWLINN (N-33)	3.7
PR 9118	3.7
SHERWOOD	3.7
BAR LP 852	3.3
ENFRAR	3.3
ENVY	3.3
GOALIE	3.3
MCM LP 3182	3.3
NIGHTHAWK (WVPB-89-PR-A-3)	3.3
PST-2ROR	3.3
EEG 358	3.0
LORETTA	3.0
MCM LP 3184	3.0
MCM LP 3185	3.0
DUET	2.7
METEOR	2.7
MCM LP 3179	2.3
NAVAJO (PST-2DPR)	2.3
LINN	1.3
LSD VALUE	1.5

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).

TABLE 9. CANOPY HEIGHT MEASUREMENTS OF PERENNIAL RYEGRASS CULTIVARS \*  
1994 DATA

CANOPY HEIGHT MEASURED IN CENTIMETER 1/			
NAME	IL2	NAME	IL2
LINN	22.7	SURPRISE	15.7
PENNANT	20.0	TOPEKA (WVFB-88-PR-D-10)	15.7
DUET	19.7	TORONTO	15.7
CALIENTE	19.3	CITATION II	15.3
PREMIER	19.3	CUTLESS	15.3
MOM LP 3179	19.0	PINNACLE	15.3
PATRIOT II	18.3	PR 9109	15.3
C-21	18.0	PST-2ROR	15.3
RIVIERA	18.0	SR 4200	15.3
SHINING STAR (PST-2B3)	18.0	240 (PEBBLE BEACH)	15.0
ACCOLADE	17.3	CALYPSO	15.0
COWBOY II (WM-II)	17.3	ESSENCE (PR 8820)	15.0
PENNFINE	17.3	GOALIE	15.0
856	17.0	PR 9118	15.0
CHARGER	17.0	PRONTO (WVFB-89-87A)	15.0
MOM LP 3184	17.0	PST-2OG	15.0
BAR LP 852	16.7	STALLION SELECT (PS-105)	15.0
CARTEL	16.7	STATESMAN (WVPB-88-PR-D-12)	15.0
ENTRAR	16.7	DANARO	14.7
FIESTA II	16.7	DELAWARE DWARF (4DD)	14.7
OVATION	16.7	DIMENSION (2H7)	14.7
REGAL	16.7	PASSPORT (PST-2FF)	14.7
SATURN	16.7	PR 9108	14.7
89-666	16.3	PR 9119	14.7
BAR LP 086FL	16.3	PS 89-90 (MVF 89-90)	14.7
BOARDWALK (OFI-D4)	16.3	ZPS-2EZ	14.7
MOM LP 3111	16.3	ASSURE	14.3
MOM LP 3182	16.3	BARRAGE	14.3
MULLIGAN (NK 89001)	16.3	BUCCANEER (KOOS 90-1)	14.3
STALLION	16.3	DANILO	14.3
ACHIEVER (PICK 1800)	16.0	LINDSAY	14.3
CORSAIR (MVF 89-88)	16.0	RODEO II	14.3
CUTTER (PICK 89-4)	16.0	YORKTOWN III (LDRF)	14.3
DANDY	16.0	APM	14.0
ENVY	16.0	CHARISMA (WVPB 89-92)	14.0
LYNX (PICK EEC)	16.0	CLP 39	14.0
MOM LP 3185	16.0	EQUAL	14.0
SHERWOOD	16.0	GREENLAND (PICK 9100)	14.0
COMMANDER	15.7	LORETTA	14.0
DERBY SUPREME	15.7	LOWGROW (PICK 89LLG)	14.0
GATOR	15.7	MANHATTAN II (E)	14.0
NEWLINN (N-33)	15.7	MORNING STAR (SYN-P)	14.0
PLEASURE	15.7	PRELUDE II (2P2-90)	14.0
PST-23C	15.7	PST-290	14.0
REPELL II (LDRD)	15.7	QUICKSTART (PST-2FQR)	14.0

TABLE 9.  
(CONT'D)

CANOPY HEIGHT MEASUREMENTS OF PERENNIAL RYEGRASS CULTIVARS  
1994 DATA

CANOPY HEIGHT MEASURED IN CENTIMETER

NAME	IL2
REPELL	14.0
TARGET	14.0
EEG 358	13.7
ELEGANCE (OFI-F7)	13.7
GETTYSBURG	13.7
HE 311	13.7
KOCS 90-2	13.7
PRECISION (MOM LP 3147)	13.7
TROUBADOUR	13.7
UNKNOWN	13.7
CAPRI (ZW 42-176)	13.3
METEOR	13.3
NIGHTHAWK (WVPB-89-PR-A-3)	13.3
PALMER II (P89)	13.3
PR 9121	13.3
ADVENT	13.0
TAYA	13.0
WIND STAR (PST-28M)	13.0
CLP 144	12.7
COMPETITOR	12.7
ELITE (WVPB-88-PR-C-23)	12.7
EXPRESS	12.7
RIVIERA II (PICK DKM)	12.7
AFFINITY (GEN-90)	12.3
ALLEGRO	12.3
BRIGHTSTAR (PST-GH-89)	12.3
EVENING SHADE (POLY-SH)	12.3
LEGACY	12.3
SEVILLE	12.3
BARRAGE ++	12.0
NOMAD	11.7
PRIZM (ZPS-28D)	11.7
NAVAJO (PST-2DPR)	11.3
LSD VALUE	3.6

\* CANOPY HEIGHT MEASUREMENTS 10 DAYS GROWING IN MAY.

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).