

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 Maryland Turfgrass Council. 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, a national coordinator, and a technical coordinator. The program will 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. The national coordinator is responsible for the overall coordination and operation of the NTEP, including (1) soliciting entries and distribution of test seed sets to evaluators, (2) data summarization and distribution, and, (3) management of test materials, facilities, and finances.

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LOCATIONS SUBMITTING DATA FOR 1987

<u>State</u>	<u>Location</u>	<u>Code</u>
British Columbia	Agassiz	BC1
Idaho	Post Falls	ID2
Illinois	Urbana	IL1
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Kansas	Wichita	KS2
Kentucky	Lexington	KY1
Maryland	Beltsville	UB1
Maryland	Silver Spring	MD1
Massachusetts	Amherst	MA1
Missouri	Columbia	MO1
New Jersey	Adelphia	NJ1
New Jersey	Adelphia	NJ2
New Mexico	Los Lunas	NM1
Ohio	Marysville	OH2
Oklahoma	Stillwater	OK1
Oregon	Hubbard	OR1
Oregon	Corvallis	OR2
Rhode Island	Kingston	RI1
South Dakota	Brookings	SD1
Virginia	Blacksburg	VA1
Virginia	Lynchburg	VA7
Washington	Puyallup	WA3

1986 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
1	Barry	Barenbrug Holland	36	Pennfine	Joe Duich - Penn State
2	BAR Lp 454	Barenbrug Holland	37	PSU-222	Joe Duich - Penn State
3	Tara	Hubbard Seed & Supply	38	PSU-333	Joe Duich - Penn State
4	BAR Lp 410	Barenbrug Holland	39	Mom Lp 763	Van der Have - Oregon, Inc.
5	Cowboy	Loft's Seed, Inc.	40	Sheriff	Van der Have - Oregon, Inc.
6	Yorktown II	Loft's Seed, Inc.	41	Birdie II	Turf-Seed, Inc.
7	Prelude	Loft's Seed, Inc.	42	Citation II	Turf-Seed, Inc.
8	Palmer	Loft's Seed, Inc.	43	Regency	LESCO, Inc.
9	Diplomat	Loft's Seed, Inc.	44	Manhattan II	Turf Merchants & Turf-Seed
10	Pavo (WW E 14)	E. F. Burlingham & Sons	45	PST-2PM (Saturn)	Zajac Performance Seeds
11	Ronja (WW E 31)	E. F. Burlingham & Sons	46	PST-2DD	Pure-Seed Testing, Inc.
12	Caliente	NPI Seed, Inc.	47	PST-2H7	Pure-Seed Testing, Inc.
13	KWS-Al-2 (Aquarius)	Fred Ledebuer-KWS Einbeck	48	PST-250 (Competitor)	E. F. Burlingham & Sons
14	Delray	Northrup King Co.	49	Vintage-2DF	LESCO, Inc.
15	Goalie	Northrup King Co.	50	PST-259 (Commander)	Turf-Seed, Inc.
16	Acrobat (HE 177)	Van der Have - Oregon, Inc.	51	PST-M2E	Manhattan Rye Growers Assoc.
17	Rival (HE 178)	Van der Have - Oregon, Inc.	52	246	Turf-Seed, Inc.
18	Brenda	Van der Have - Oregon, Inc.	53	Omega II	Turf-Seed, Inc.
19	Derby	International Seeds, Inc.	54	PST-2HH (Charger)	Pure-Seed Testing, Inc.
20	Regal	International Seeds, Inc.	55	ISI-851 (Lindsay)	International Seeds, Inc.
21	Gator	International Seeds, Inc.	56	NK 80389	Northrup King Co.
22	Patriot	Turf Merchants, Inc.	57	Manhattan	-
23	Rodeo	Turf Merchants, Inc.	58	Repell	Loft's Seed, Inc.
24	Allaire	Jonathan Green & Sons	59	DEL 946	Northrup King Co.
25	Pick 300 (Blazer II)	Pickseed West, Inc.	60	Belle	E. F. Burlingham & Sons
26	Pick 715	Pickseed West, Inc.	61	Pennant	E. F. Burlingham & Sons
27	Ovation	O. M. Scott & Sons	62	J207	Jacklin Seed Co.
28	SR 4000	Seed Research, Inc.	63	J208	Jacklin Seed Co.
29	SR 4031	Seed Research, Inc.	64	Linn	-
30	SR 4100	Seed Research, Inc.	65	Runaway	Van der Have - Oregon, Inc.
31	Pick 233 (Dasher II)	Pickseed West, Inc.			
32	Pick 647 (Riviera)	Pickseed West, Inc.			
33	Pick 600 (Fiesta II)	Pickseed West, Inc.			
34	Ranger	Van der Have - Oregon, Inc.			
35	ISI-K2 (Dillon)	International Seeds, Inc.			

TABLE A. 1987 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES
IN THE 1986 NATIONAL PERENNIAL RYEGRASS TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)
BC1	LOAM	5.6-6.0	-	-
ID2	SILT LOAM AND SILT	5.6-6.0	0-60	0-150
IL1	SILT LOAM AND SILT	-	-	-
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	241-375
KS1	SILTY CLAY LOAM	7.1-7.5	271-450	376-500
KS2	SANDY LOAM	6.6-7.0	61-150	241-375
KY1	SILT LOAM AND SILT	5.6-6.0	271-450	376-500
MA1	SILT LOAM AND SILT	6.1-6.5	-	-
MD1	SANDY LOAM	6.1-6.5	0-60	0-150
MO1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240
NJ1	LOAM	6.6-7.0	151-270	151-240
NJ2	SANDY LOAM	6.1-6.5	61-150	151-240
NM1	SANDY CLAY LOAM	7.6-8.5	-	-
OH2	SILTY CLAY AND CLAY	-	-	-
OK1	-	-	-	-
OR1	SILT LOAM AND SILT	4.6-5.5	151-270	241-375
OR2	SILT LOAM AND SILT	5.6-6.0	-	-
RI1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375
SD1	SILTY CLAY LOAM	6.6-7.0	-	-
UB1	SANDY LOAM	5.6-6.0	-	-
VA1	SANDY LOAM	5.6-6.0	0-60	0-150
VA7	SANDY LOAM	7.1-7.5	61-150	241-375
WA3	SANDY LOAM	5.6-6.0	61-150	151-240

LOCATION	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
BC1	-	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
ID2	3.1-4.0	LIGHT SHADE	1.1-1.5	TO PREVENT STRESS
IL1	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
IN1	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
KS1	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
KS2	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
KY1	2.1-3.0	FULL SUN	1.1-1.5	NO IRRIGATION
MA1	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
MD1	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
MO1	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
NJ1	5.1-6.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	6.1-7.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NM1	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
OH2	3.1-4.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
OK1	-	-	-	-
OR1	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
OR2	7.1-8.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
RI1	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
SD1	-	FULL SUN	2.1-2.5	TO PREVENT STRESS
UB1	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
VA1	2.1-3.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
VA7	2.1-3.0	FULL SUN	2.1-2.5	NO IRRIGATION
WA3	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B. LOCATIONS AND DATA COLLECTED IN 1987

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING
BC1		X	X	X	X	X
ID2		X	X	X		X
IL1						
IN1			X	X	X	X
KS1				X	X	X
KS2				X		
KY1			X	X	X	X
MA1				X	X	X
MD1						X
MO1				X	X	X
NJ1				X	X	X
NJ2				X	X	
NM1					X	X
OH2					X	
OK1			X	X	X	X
OR1	X	X	X	X	X	X
OR2				X	X	X
RI1						
SD1						
UB1				X	X	X
VA1				X	X	X
VA7			X	X	X	X
WA3						
LOCATION	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING
BC1	X	X	X	X	X	
ID2		X	X	X	X	
IL1		X	X	X		
IN1	X	X	X	X	X	
KS1	X	X	X	X		
KS2	X	X	X	X		
KY1	X	X				
MA1			X			
MD1	X	X		X		
MO1	X	X	X	X	X	
NJ1	X	X	X	X	X	
NJ2	X	X	X	X	X	
NM1	X	X	X	X	X	X
OH2				X		
OK1	X					
OR1	X	X	X	X	X	X
OR2	X		X	X		
RI1	X			X	X	
SD1						
UB1	X	X	X	X	X	
VA1	X	X	X	X		
VA7	X	X	X	X		
WA3						

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT TWENTY-TWO LOCATIONS IN THE UNITED STATES AND CANADA
1987 DATA

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

NAME	BC1	ID2	IL1	IN1	KS1	KS2	KY1	MA1	MD1	MO1	NJ1
PST-2PM	6.2	7.0	6.9	6.7	6.9	7.6	7.2	5.3	7.2	6.8	6.3
* SR 4000	5.8	7.3	6.6	6.3	6.9	7.0	6.3	5.0	7.0	6.7	7.3
PICK 647	6.5	6.4	6.6	6.5	7.1	7.3	6.9	4.9	7.0	7.1	6.8
PST-2H7	5.9	6.8	6.4	6.2	7.1	7.7	6.4	5.3	6.6	6.8	6.8
* PICK 600 (FIESTA II)	5.9	6.9	6.8	6.4	7.3	7.5	6.5	5.2	6.3	6.8	6.6
* TARA	6.4	7.0	6.2	6.6	6.9	7.3	6.4	4.9	6.8	6.3	6.8
PST-M2E	6.3	6.5	6.2	6.6	7.0	7.2	6.6	4.8	6.8	6.8	6.9
* OMEGA II	6.3	7.0	6.2	6.2	7.0	7.5	6.4	5.0	6.7	6.8	6.8
PST-2DD	6.2	6.7	5.8	6.4	7.4	6.1	6.3	5.1	6.2	6.6	6.7
* KWS-AL-2 (AQUARIUS)	6.0	7.3	5.7	6.8	7.5	7.1	5.7	5.1	5.9	6.7	6.8
* PICK 233 (DASHER II)	6.2	6.7	6.1	6.5	7.2	7.3	6.9	5.0	6.4	6.7	6.7
* PENNANT	6.4	6.9	6.8	6.1	6.5	7.5	6.9	5.0	6.9	6.5	6.4
* MANHATTAN II	6.5	6.7	6.7	6.4	6.8	7.5	5.9	4.9	6.9	6.4	6.2
PST-2HH	6.0	7.4	6.2	6.5	7.1	7.7	6.5	5.1	6.6	6.7	6.7
* PST-250 (COMPETITOR)	5.9	6.8	6.0	6.5	6.9	7.0	6.2	5.5	6.2	6.9	6.8
* SR 4100	6.1	6.8	6.7	6.1	6.9	7.5	6.6	5.3	6.8	7.0	6.9
* REPELL	6.7	6.7	6.3	6.3	7.0	6.5	6.7	5.0	6.7	6.4	6.3
* PALMER	6.5	7.1	6.9	6.4	6.8	7.5	6.2	4.8	6.7	6.3	5.7
* PICK 300 (BLAZER II)	6.1	7.0	6.3	6.1	7.5	7.2	6.0	5.3	5.9	6.8	6.6
* CITATION II	6.5	6.0	6.6	6.4	6.6	7.4	6.4	5.0	6.8	6.6	5.8
* PST-259 (COMMANDER)	6.0	6.5	6.2	6.3	6.7	6.8	7.3	5.0	6.8	6.8	6.0
* ISI-851 (LINDSAY)	6.2	7.0	6.1	6.4	7.0	6.9	6.0	4.9	6.8	6.3	5.8
* ALLAIRE	6.2	7.3	6.2	6.3	7.2	5.7	5.9	5.0	6.5	6.4	6.1
PICK 715	6.1	6.6	6.7	6.0	6.5	7.3	6.6	5.1	6.8	6.8	6.8
* PRELUDE	6.2	6.5	6.6	6.3	6.7	7.4	6.0	5.0	7.0	6.5	5.7
* GATOR	6.2	6.6	6.4	6.3	7.0	7.1	5.4	4.9	6.5	6.5	5.9
* RODEO	6.6	7.2	6.4	6.5	6.9	6.3	5.6	4.8	5.7	6.5	6.2
* PATRIOT	6.2	6.4	5.9	6.2	6.7	7.3	5.5	5.0	6.2	6.6	5.8
BAR LP 410	6.3	5.8	6.2	6.4	7.0	6.9	5.4	4.8	6.8	6.5	5.2
* DERBY	6.2	6.7	6.2	6.4	6.9	6.8	5.8	4.8	6.9	6.4	5.3
* BELLE	6.3	6.3	6.3	6.1	6.7	7.1	5.7	5.1	6.4	6.5	5.5
* GOALIE	6.2	6.5	6.2	6.3	6.7	7.4	6.2	5.1	6.8	6.4	5.4
* RANGER	6.0	6.0	6.3	6.3	7.3	6.8	6.1	4.9	6.1	6.2	5.3
* 246	5.6	6.8	5.9	6.2	6.3	6.7	5.4	5.2	5.8	6.3	5.3
PSU-222	5.6	6.9	6.0	6.5	6.6	6.8	6.1	4.8	6.2	6.3	5.4
* YORKTOWN II	6.5	6.5	6.4	6.1	6.9	6.6	5.8	4.9	5.5	6.0	4.6
* BIRDIE II	5.8	6.6	6.3	6.0	6.3	7.1	6.0	4.9	6.3	6.5	5.0
PSU-333	6.0	6.3	5.9	6.3	6.4	6.5	6.0	4.9	6.2	5.9	5.3
* SR 4031	5.8	6.0	5.8	6.5	6.5	6.9	6.3	4.9	6.9	6.3	4.8
RUNAWAY	6.1	6.5	5.9	6.1	6.5	7.2	5.3	4.9	5.6	6.2	5.3
ACROBAT	5.9	6.4	6.1	6.3	6.7	6.5	5.9	5.1	6.7	6.5	4.8
* CALIENTE	5.9	6.2	6.1	6.1	6.5	7.3	6.6	4.9	6.8	6.3	5.1
* DIPLOMAT	5.9	6.9	6.6	5.8	6.6	6.6	5.4	5.2	6.2	6.2	4.4
MOM LP 763	6.1	6.1	5.9	6.2	6.5	6.5	6.2	4.8	6.3	6.1	4.1
* REGAL	5.8	6.5	4.8	6.1	6.1	6.7	6.1	4.8	6.4	6.6	5.4
* ISI-K2 (DILLON)	6.4	6.3	6.3	5.7	6.8	6.7	5.8	4.8	6.1	6.0	4.2

* COMMERCIALY AVAILABLE VARIETY

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) AT TWENTY-TWO LOCATIONS IN THE UNITED STATES AND CANADA
1987 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF											
NAME	NJ2	NM1	OH2	OK1	OR1	OR2	RI1	UB1	VA1	VA7	MEAN
PST-2PM	7.4	6.9	6.0	4.9	7.3	6.3	6.1	6.6	5.1	3.3	6.4
SR 4000	7.2	7.2	7.0	5.0	6.6	6.4	5.8	6.6	5.8	3.1	6.3
PICK 647	7.0	6.8	7.0	4.5	6.6	6.2	6.0	6.5	6.0	2.9	6.3
PST-2H7	7.0	7.3	6.5	5.1	7.1	6.6	5.9	6.4	5.2	3.5	6.3
PICK 600 (FIESTA II)	6.8	7.0	6.7	5.1	6.7	6.2	5.6	6.5	5.4	3.6	6.3
TARA	7.1	6.5	7.3	4.3	6.8	6.5	5.9	6.6	5.3	3.3	6.3
PST-M2E	6.6	7.1	6.5	5.1	6.9	6.6	5.7	6.7	5.0	3.2	6.2
OMEGA II	6.4	7.1	6.3	5.1	7.0	6.2	5.7	6.2	5.5	3.4	6.2
PST-2DD	7.5	7.2	6.8	5.2	7.3	6.7	5.8	7.0	4.9	3.0	6.2
KWS-AL-2 (AQUARIUS)	7.6	6.8	7.0	5.0	6.7	7.0	5.6	6.8	4.7	2.9	6.2
PICK 233 (DASHER II)	6.7	7.1	6.3	4.8	6.0	6.4	6.4	6.1	5.5	2.8	6.2
PENNANT	6.6	7.0	5.7	5.2	6.1	6.0	6.2	5.8	5.4	3.8	6.2
MANHATTAN II	6.5	6.8	6.8	4.5	6.9	6.6	5.6	6.5	5.3	3.1	6.2
PST-2HH	7.0	6.7	5.8	4.1	6.5	6.6	5.4	6.2	5.5	3.2	6.2
PST-250 (COMPETITOR)	6.9	6.9	7.2	4.5	6.9	6.7	5.1	6.4	5.2	2.7	6.2
SR 4100	6.3	6.8	5.5	4.9	6.6	6.3	5.4	6.7	5.0	2.8	6.1
REPELL	6.3	7.0	6.5	4.6	6.4	6.2	5.9	6.8	5.1	3.3	6.1
PALMER	6.2	7.2	6.0	3.9	6.6	6.3	5.6	6.2	5.7	3.9	6.1
PICK 300 (BLAZER II)	7.1	6.7	7.2	4.4	6.5	6.4	4.4	6.3	5.3	3.1	6.1
CITATION II	6.4	7.2	5.5	5.5	6.8	6.2	5.1	6.4	5.2	2.9	6.1
PST-259 (COMMANDER)	6.7	6.8	5.5	4.3	6.4	6.2	5.4	6.3	5.7	3.2	6.0
ISI-851 (LINDSAY)	6.4	6.5	6.5	5.1	6.2	6.3	5.8	6.1	5.3	3.3	6.0
ALLAIRE	7.1	6.8	6.3	5.3	6.0	6.8	5.4	6.1	4.7	3.2	6.0
PICK 715	6.2	6.5	6.3	4.3	6.1	5.9	5.2	6.5	5.5	2.9	6.0
PRELUDE	6.3	6.8	5.8	4.3	6.4	6.4	5.9	6.2	5.3	3.5	6.0
GATOR	6.6	7.0	6.7	4.5	6.2	6.2	5.6	6.3	5.1	3.2	6.0
RODEO	6.5	6.7	6.3	5.0	5.9	6.7	5.6	6.2	4.2	3.1	5.9
PATRIOT	6.2	7.0	6.5	4.7	6.0	6.3	5.9	5.8	5.0	3.1	5.9
BAR LP 410	6.1	6.5	6.8	4.5	5.5	6.2	5.9	6.1	5.4	3.4	5.9
DERBY	5.4	7.2	6.3	4.8	5.7	6.1	5.8	5.7	5.5	2.7	5.9
BELLE	6.5	7.3	5.8	4.8	5.4	5.8	5.3	6.0	5.1	3.2	5.9
GOALIE	5.5	6.7	5.3	4.3	5.5	5.8	6.0	6.1	5.0	3.4	5.9
RANGER	5.5	7.1	6.5	3.9	5.6	6.1	6.3	5.9	5.1	2.9	5.8
246	6.2	7.0	5.8	5.4	6.7	6.2	5.3	6.1	5.4	2.7	5.8
PSU-222	5.3	7.3	5.8	5.1	6.0	6.0	5.9	5.9	5.1	2.7	5.8
YORKTOWN II	6.1	7.0	6.5	4.7	5.7	6.1	5.8	5.6	5.0	3.4	5.8
BIRDIE II	6.0	7.2	5.5	4.3	6.4	6.0	5.8	6.1	5.0	2.6	5.8
PSU-333	5.9	7.1	5.8	4.7	5.8	6.3	5.7	6.0	5.1	3.1	5.8
SR 4031	6.0	6.8	5.2	5.0	5.9	5.9	5.7	6.2	5.1	2.5	5.8
RUNAWAY	5.7	7.2	6.0	4.8	5.2	5.8	6.0	5.7	5.2	3.3	5.7
ACROBAT	5.9	7.0	6.3	3.7	5.3	5.8	5.4	5.8	4.7	2.9	5.7
CALIENTE	5.4	6.7	5.7	2.9	5.5	5.7	5.3	5.8	5.2	3.4	5.7
DIPLOMAT	5.1	7.0	6.3	4.2	5.4	5.9	5.2	5.5	5.0	3.3	5.7
MOM LP 763	5.0	6.9	5.8	4.8	5.3	6.2	6.2	5.7	5.0	2.9	5.7
REGAL	5.9	6.8	6.2	4.6	5.6	5.7	4.9	5.8	5.0	2.8	5.6
ISI-K2 (DILLON)	4.9	6.6	6.5	4.7	5.4	6.1	5.6	5.4	4.8	3.0	5.6

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

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) AT TWENTY-TWO LOCATIONS IN THE UNITED STATES AND CANADA
1987 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	BC1	ID2	IL1	IN1	KS1	KS2	KY1	MA1	MD1	MO1	NJ1
BAR LP 454	6.0	6.6	5.8	6.6	6.5	6.1	5.1	4.8	6.3	5.9	4.7
NK 80389	6.0	6.6	5.3	6.7	6.9	6.7	5.6	4.9	4.8	6.1	4.5
* BRENDA	5.6	6.3	6.8	6.2	6.4	6.9	5.3	4.9	5.7	6.2	4.5
RONJA	6.1	7.0	5.8	5.9	6.5	6.1	4.7	5.1	5.9	6.0	4.5
* OVATION	5.9	5.9	6.9	6.1	6.5	6.2	5.5	4.4	6.1	6.0	4.3
* REGENCY	6.3	6.3	6.3	6.5	6.1	6.4	5.6	4.8	6.1	6.0	4.3
* BARRY	6.5	6.5	5.9	5.9	6.1	6.5	4.6	4.7	5.0	5.9	5.0
DEL 946	5.5	5.9	6.1	5.7	6.4	6.5	6.4	4.9	6.9	6.5	4.1
SHERIFF	6.0	6.1	5.6	5.8	6.3	6.7	5.6	4.8	6.3	6.5	4.4
* VINTAGE-2DF	6.2	5.8	5.3	6.2	6.3	6.5	5.9	4.9	5.8	6.3	4.0
* PENNFINE	6.0	5.9	6.1	6.0	6.0	6.7	5.7	5.0	5.7	6.0	4.3
* MANHATTAN	5.6	6.8	5.4	6.1	6.2	5.6	5.5	4.8	5.8	6.0	4.0
RIVAL	6.0	5.8	6.2	6.2	6.3	7.3	4.7	4.8	6.4	6.1	4.1
* COWBOY	6.1	6.1	6.3	6.0	6.1	5.9	5.5	4.7	6.5	6.1	4.6
PAVO	5.8	6.8	5.3	5.7	6.6	6.8	5.4	4.5	4.6	5.6	4.0
* DELRAY	5.7	5.7	4.7	6.2	6.1	6.8	5.8	4.9	6.1	6.0	3.9
J207	5.7	6.3	6.0	5.6	6.4	6.1	5.1	4.7	4.9	5.6	3.5
J208	5.3	5.8	5.2	5.4	6.1	5.8	4.9	4.8	5.3	5.5	3.4
* LINN	4.6	4.8	3.7	4.4	4.7	4.4	3.2	4.1	5.5	4.8	1.9
LSD VALUE	0.7	0.8	0.8	0.4	0.5	0.8	0.7	0.5	0.9	0.4	0.7
NAME	NJ2	NM1	OH2	OK1	OR1	OR2	RI1	UB1	VA1	VA7	MEAN
BAR LP 454	5.3	7.1	6.5	4.2	5.5	5.8	5.8	5.9	4.6	2.9	5.6
NK 80389	5.1	7.1	6.3	5.1	5.6	6.1	5.3	5.5	4.5	3.0	5.6
BRENDA	5.4	7.2	5.0	4.9	5.1	5.7	5.6	5.4	5.0	3.0	5.6
RONJA	4.9	6.8	6.7	4.4	5.1	6.1	5.8	5.9	4.6	3.0	5.6
OVATION	5.0	6.9	6.3	5.0	4.9	6.0	5.3	5.7	4.5	3.1	5.5
REGENCY	4.1	6.5	5.5	4.8	5.7	5.7	5.4	5.4	5.2	3.1	5.5
BARRY	5.1	6.7	6.0	4.6	5.8	6.1	5.7	6.0	4.8	2.7	5.5
DEL 946	4.7	6.9	5.2	4.6	4.5	5.4	5.6	5.9	5.1	2.9	5.5
SHERIFF	5.6	6.8	5.5	4.5	5.2	5.9	5.1	5.7	4.4	3.0	5.5
VINTAGE-2DF	4.2	7.0	5.8	4.9	5.6	6.0	5.4	5.6	5.0	2.9	5.5
PENNFINE	4.9	6.5	5.3	4.9	4.8	6.0	5.4	5.9	4.7	3.6	5.5
MANHATTAN	4.6	6.9	6.5	5.1	4.9	5.8	5.9	5.6	4.7	3.3	5.5
RIVAL	4.9	6.9	5.2	4.8	4.8	6.1	5.0	5.3	4.9	3.0	5.5
COWBOY	5.1	6.6	4.7	4.8	5.9	6.2	5.2	5.6	4.6	2.4	5.5
PAVO	4.4	7.1	6.5	3.6	5.0	5.9	5.6	5.5	4.9	3.6	5.4
DELRAY	5.0	6.5	5.2	4.5	5.1	5.7	5.3	5.8	4.6	2.4	5.3
J207	4.0	7.1	6.5	4.5	4.1	5.7	5.8	5.5	4.8	2.7	5.3
J208	4.5	6.9	6.2	4.6	4.1	5.5	5.7	5.5	4.2	2.3	5.1
LINN	1.8	6.8	3.0	5.0	2.7	4.1	4.3	3.2	3.7	2.4	3.9
LSD VALUE	0.9	1.0	0.9	1.5	0.6	0.5	0.9	0.5	0.8	0.5	0.2

* COMMERCIALY AVAILABLE VARIETY

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR
EACH MONTH GROWN AT TWENTY-TWO LOCATIONS IN THE U. S. AND CANADA
1987 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PST-2PM	6.3	6.0	5.8	6.6	6.2	6.4	6.3	6.2	6.6	6.6	6.9	5.3	6.4
PICK 647	5.7	5.8	5.6	6.2	6.3	6.3	6.3	6.1	6.6	6.6	6.9	5.4	6.3
SR 4000	6.3	6.0	5.5	6.3	6.4	6.4	6.3	6.0	6.5	6.5	7.1	5.2	6.3
PST-2H7	5.7	5.6	5.6	6.4	6.4	6.4	6.3	5.9	6.5	6.6	7.1	5.7	6.3
PICK 600 (FIESTA II)	6.3	5.7	5.6	6.2	6.3	6.4	6.2	5.9	6.6	6.6	7.0	5.3	6.3
TARA	6.0	5.8	5.8	6.3	6.5	6.5	6.2	5.8	6.2	6.5	6.8	5.6	6.3
PST-M2E	5.7	5.4	5.5	6.3	6.3	6.5	6.3	6.0	6.3	6.6	6.9	5.3	6.3
KWS-AL-2 (AQUARIUS)	6.0	5.9	5.5	6.8	6.7	6.5	5.7	5.4	6.3	6.5	7.1	5.1	6.2
OMEGA II	6.3	6.2	5.6	6.3	6.4	6.5	6.2	6.0	6.3	6.4	6.9	5.6	6.2
PST-2DD	5.7	5.7	5.4	6.5	6.8	6.6	6.0	5.4	6.3	6.5	7.2	5.4	6.2
PICK 233 (DASHER II)	6.7	5.9	5.5	6.1	6.1	6.2	6.1	5.9	6.2	6.5	7.0	4.8	6.2
PST-2HH	6.7	6.1	5.5	6.4	6.2	6.2	6.0	6.0	6.3	6.4	6.8	5.2	6.2
MANHATTAN II	6.3	5.7	5.6	6.4	6.2	6.4	6.0	5.7	6.2	6.4	6.7	5.2	6.2
PENNANT	5.7	6.0	5.6	6.2	5.9	6.1	6.3	6.1	6.3	6.4	6.7	4.9	6.2
PST-250 (COMPETITOR)	6.0	5.9	5.6	6.6	6.5	6.3	5.9	5.6	6.3	6.3	6.7	5.0	6.2
REPELL	6.3	6.0	5.8	6.4	6.3	6.4	6.0	5.7	6.0	6.3	6.7	5.0	6.1
SR 4100	5.7	5.6	5.3	6.3	6.0	6.3	6.1	6.0	6.5	6.4	6.6	5.2	6.1
PALMER	6.0	6.2	5.6	6.1	5.8	6.3	6.1	6.0	6.4	6.5	6.7	5.8	6.1
PICK 300 (BLAZER II)	6.7	5.6	5.2	6.3	6.4	6.3	5.7	5.8	6.4	6.5	6.7	5.0	6.1
CITATION II	6.7	6.1	5.8	6.3	5.9	6.1	5.9	5.8	6.0	6.4	6.5	5.4	6.1
ISI-851 (LINDSAY)	7.0	6.1	5.2	6.3	6.3	6.1	6.0	5.5	5.9	6.3	6.5	4.8	6.1
PST-259 (COMMANDER)	6.3	5.8	5.6	6.3	6.0	6.2	6.0	6.0	6.1	6.3	6.4	5.0	6.1
ALLAIRE	5.7	6.1	5.9	6.4	6.3	6.4	5.8	5.2	5.9	6.4	6.8	4.3	6.1
PRELUDE	6.3	5.9	5.4	6.1	5.7	6.1	5.9	5.7	6.1	6.5	6.8	5.0	6.0
PICK 715	6.3	6.0	5.5	6.0	6.0	6.0	5.9	5.9	6.1	6.2	6.6	5.0	6.0
GATOR	5.3	5.7	5.6	6.2	6.3	6.2	5.5	5.6	6.0	6.4	6.4	5.1	6.0
RODEO	6.3	6.2	5.5	6.1	6.1	6.3	5.5	5.3	6.0	6.2	6.8	4.7	6.0
PATRIOT	6.7	5.8	5.3	6.2	5.9	6.0	5.6	5.4	6.1	6.2	6.8	4.7	5.9
BAR LP 410	5.0	5.6	5.2	6.2	6.1	6.0	5.6	5.5	5.8	6.1	6.1	4.9	5.9
DERBY	6.0	5.6	5.6	6.0	5.7	6.1	5.8	5.6	5.8	6.1	6.3	4.7	5.9
GOALIE	5.3	5.4	5.4	5.9	5.5	5.9	5.9	5.6	6.0	6.1	6.4	4.8	5.9
BELLE	5.7	5.2	5.2	6.0	5.8	6.0	5.7	5.4	5.9	6.2	6.4	5.1	5.9
RANGER	5.7	5.2	5.1	5.6	5.8	6.0	5.6	5.3	5.9	6.2	6.6	4.7	5.9
246	7.0	5.8	5.5	6.2	5.8	5.6	5.5	5.3	5.9	6.2	6.7	5.3	5.8
PSU-222	5.3	5.7	5.4	6.0	5.7	6.0	5.6	5.4	5.7	6.0	6.5	5.3	5.8
YORKTOWN II	5.7	5.8	5.5	5.9	5.9	6.1	5.6	5.1	5.6	6.0	6.4	5.4	5.8
BIRDIE II	6.7	5.8	5.3	5.6	5.3	5.9	5.8	5.8	5.9	6.1	6.4	5.1	5.8
SR 4031	5.7	4.9	5.0	5.8	5.5	5.8	5.7	5.4	5.9	6.1	6.7	4.8	5.8
PSU-333	6.3	5.3	5.3	5.8	5.7	6.0	5.6	5.4	5.8	5.9	6.3	5.3	5.8
RUNAWAY	6.0	5.6	5.1	6.0	5.9	5.9	5.4	5.3	5.6	6.0	6.1	5.2	5.8
ACROBAT	5.0	5.3	5.0	5.6	5.9	5.8	5.4	5.3	5.8	6.0	6.3	4.4	5.7
CALIENTE	5.7	5.7	4.8	5.5	5.3	5.8	5.9	5.6	5.9	5.9	6.3	5.2	5.7
MOM LP 763	5.7	5.7	5.2	5.6	5.5	5.8	5.5	5.0	5.6	6.1	6.1	4.8	5.7
DIPLOMAT	6.0	6.1	5.4	5.5	5.7	5.8	5.3	5.1	5.5	5.9	6.3	5.0	5.7
REGAL	6.0	5.7	5.2	6.0	5.5	5.9	5.5	5.4	5.6	5.8	6.0	5.0	5.7
BAR LP 454	5.3	5.7	5.0	5.2	6.1	6.1	5.2	4.9	5.6	6.0	6.2	4.7	5.7
NK 80389	5.7	5.9	5.4	5.8	6.3	6.0	5.1	4.7	5.3	5.9	6.2	5.2	5.7
ISI-K2 (DILLON)	6.0	5.9	5.0	5.8	5.8	5.8	5.2	5.0	5.5	5.8	6.0	4.7	5.6
BRENDA	4.3	5.1	5.0	5.6	5.3	5.8	5.5	5.1	5.6	5.9	6.2	5.0	5.6
REGENCY	5.3	5.7	5.1	5.6	5.3	5.7	5.2	5.1	5.5	5.9	6.2	5.3	5.6

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR
(CONT'D) EACH MONTH GROWN AT TWENTY-TWO LOCATIONS IN THE U. S. AND CANADA
1987 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
RONJA	5.7	5.9	4.9	5.4	6.3	6.0	4.9	4.7	5.5	5.8	6.0	4.3	5.6
OVATION	5.7	5.0	4.9	5.4	5.8	5.6	5.2	5.0	5.4	5.9	6.0	4.3	5.6
BARRY	5.7	5.4	5.0	5.4	5.9	5.9	5.2	4.9	5.5	5.9	6.2	5.0	5.5
VINTAGE-2DF	6.7	5.4	5.0	5.5	5.5	5.7	5.4	5.1	5.3	5.7	6.1	4.9	5.5
PENNFINE	4.7	4.8	5.0	5.5	5.3	5.9	5.4	5.1	5.4	5.8	5.9	4.7	5.5
SHERIFF	6.3	5.2	4.8	5.4	5.3	5.5	5.3	5.2	5.7	6.0	6.2	4.7	5.5
DEL 946	3.3	4.2	4.7	5.3	5.1	5.7	5.5	5.5	5.6	5.9	5.6	4.9	5.5
RIVAL	4.7	4.4	4.2	4.9	5.7	5.8	5.4	5.0	5.7	5.8	6.0	4.8	5.5
MANHATTAN	5.7	5.7	5.3	5.7	5.9	5.8	5.0	4.5	5.0	5.8	5.9	4.8	5.5
COWBOY	6.3	5.6	5.1	5.3	4.9	5.6	5.6	5.4	5.7	5.7	6.1	4.9	5.5
PAVO	5.7	5.7	5.3	5.5	5.8	5.7	4.8	4.5	5.3	5.7	5.8	4.9	5.4
DELRAY	5.0	4.4	4.9	5.5	5.1	5.6	5.2	5.0	5.5	5.7	5.6	4.2	5.4
J207	3.0	4.8	4.6	5.1	5.7	5.5	4.6	4.5	5.2	5.8	5.5	4.6	5.3
J208	3.0	3.9	4.1	4.4	5.3	5.1	4.6	4.5	5.3	5.7	6.0	4.6	5.1
LINN	4.3	4.1	4.0	3.8	3.9	4.3	3.6	3.4	3.6	4.2	4.1	3.8	4.0
LSD VALUE	1.2	0.9	0.8	0.5	0.5	0.6	0.5	0.7	0.7	0.5	0.6	2.2	0.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIS, 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 AT TWENTY-TWO LOCATIONS IN THE U. S. AND CANADA 1/
1987 DATA

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

NAME	BC1	ID2	IL1	IN1	KS1	KS2	KY1	MA1	MD1	MO1	NJ1
PST-2PM	18.5	11.0	2.0	3.0	23.5	3.0	2.0	4.5	1.0	5.5	17.5
SR 4000	52.0	3.0	13.0	30.5	23.5	27.5	18.0	22.0	3.0	12.5	1.0
PICK 647	7.5	43.0	13.0	7.5	9.5	15.5	3.0	36.0	3.0	1.0	7.0
PST-2H7	47.0	21.5	16.5	37.0	8.0	1.5	15.5	2.5	24.5	11.0	4.5
PICK 600 (FIESTA II)	45.0	15.5	5.0	17.0	4.5	5.5	11.5	7.0	36.5	5.5	14.5
TARA	9.0	8.0	30.0	4.5	23.5	19.0	13.5	36.0	12.0	41.5	7.0
PST-M2E	13.0	35.5	30.0	4.5	11.5	21.0	7.0	49.5	17.0	9.0	2.5
OMEGA II	15.0	11.0	35.0	34.0	11.5	5.5	13.5	22.0	21.5	9.0	7.0
PST-2DD	20.0	25.5	53.5	19.5	3.0	57.5	19.5	12.5	40.5	17.0	11.0
KWS-AL-2 (AQUARIUS)	39.0	3.0	56.0	1.0	2.0	24.5	42.0	12.5	50.0	12.5	9.5
PICK 233 (DASHER II)	22.0	25.5	41.0	11.0	6.0	15.5	4.5	22.0	30.5	14.5	12.5
PENNANT	10.5	13.5	5.0	49.5	40.0	9.0	4.5	22.0	7.0	21.0	16.0
MANHATTAN II	6.0	25.5	8.0	22.0	26.0	8.0	35.5	36.0	7.0	32.0	20.0
PST-2HH	38.0	1.0	35.0	7.5	9.5	1.5	11.5	12.5	24.5	14.5	12.5
PST-250 (COMPETITOR)	46.0	17.5	44.0	11.0	23.5	27.5	21.0	1.0	40.5	3.0	4.5
SR 4100	34.0	17.5	8.0	49.5	17.5	5.5	9.5	4.5	17.0	2.0	2.5
REPELL	1.0	23.0	22.5	27.5	15.0	52.0	6.0	22.0	21.5	32.0	17.5
PALMER	3.0	6.0	2.0	21.0	27.5	5.5	23.0	49.5	21.5	37.0	27.0
PICK 300 (BLAZER II)	33.0	8.0	22.5	42.5	1.0	21.0	30.0	2.5	50.0	5.5	14.5
CITATION II	4.5	56.0	10.5	17.0	36.0	10.5	15.5	22.0	12.0	19.0	25.0
PST-259 (COMMANDER)	40.0	35.5	30.0	24.5	31.5	36.0	1.0	22.0	17.0	5.5	22.0
ISI-851 (LINDSAY)	23.5	11.0	38.0	17.0	15.0	29.0	30.0	36.0	17.0	37.0	25.0
ALLAIRE	23.5	3.0	35.0	24.5	7.0	63.0	33.0	22.0	27.0	32.0	21.0
PICK 715	30.5	29.5	8.0	54.0	40.0	15.5	9.5	12.5	12.0	9.0	9.5
PRELUDE	26.0	35.5	10.5	30.5	29.5	10.5	30.0	22.0	3.0	25.0	28.0
GATOR	21.0	29.5	16.5	30.5	13.0	24.5	56.0	36.0	27.0	28.5	23.0
RODEO	2.0	5.0	16.5	11.0	20.0	55.0	47.0	49.5	56.0	25.0	19.0
PATRIOT	18.5	42.0	49.5	37.0	33.5	15.5	49.5	22.0	40.5	17.0	25.0
BAR LP 410	13.0	60.5	30.0	15.0	15.0	31.0	54.5	57.0	12.0	21.0	38.0
DERBY	17.0	25.5	30.0	19.5	20.0	36.0	39.5	49.5	7.0	32.0	37.0
BELLE	16.0	48.5	22.5	49.5	33.5	24.5	42.0	12.5	30.5	25.0	29.0
GOALIE	26.0	39.0	30.0	24.5	29.5	12.0	23.0	12.5	12.0	32.0	31.0
RANGER	41.5	55.0	22.5	27.5	4.5	36.0	25.5	36.0	46.0	45.0	33.5
246	61.0	21.5	46.5	37.0	54.5	39.5	52.5	7.0	52.5	40.0	35.5
PSU-222	62.0	15.5	44.0	13.5	38.0	36.0	27.0	49.5	40.5	41.5	31.0
YORKTOWN II	4.5	33.0	16.5	42.5	20.0	46.0	39.5	36.0	59.5	53.5	45.5
BIRDIE II	56.0	32.0	22.5	52.5	54.5	24.5	30.0	36.0	34.0	21.0	41.0
PSU-333	35.0	48.5	49.5	30.5	48.5	48.0	30.0	36.0	40.5	59.5	35.5
SR 4031	55.0	54.0	53.5	9.0	46.0	31.0	19.5	36.0	7.0	37.0	42.0
RUNAWAY	30.5	35.5	49.5	46.5	46.0	21.0	57.0	36.0	58.0	43.0	33.5
ACROBAT	49.5	41.0	41.0	24.5	31.5	52.0	34.0	12.5	21.5	25.0	43.0
CALIENTE	49.5	50.0	41.0	44.5	43.0	15.5	8.0	36.0	17.0	37.0	39.0
DIPLOMAT	48.0	13.5	13.0	58.0	36.0	45.0	54.5	7.0	40.5	45.0	50.0
MOM LP 763	28.5	51.0	46.5	40.5	43.0	52.0	23.0	49.5	34.0	49.5	57.5
REGAL	53.0	39.0	63.0	46.5	59.0	42.5	25.5	49.5	30.5	17.0	31.0
ISI-K2 (DILLON)	10.5	44.5	22.5	61.5	27.5	42.5	37.5	57.0	46.0	53.5	55.0

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

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
(CONT'D) CULTIVARS AT TWENTY-TWO LOCATIONS IN THE U. S. AND CANADA
1987 DATA

QUALITY RANKINGS ; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NJ2	NM1	OH2	OK1	OR1	OR2	RI1	UB1	VA1	VA7	MEAN
PST-2PM	3.0	36.5	38.5	22.0	1.5	19.0	5.0	7.0	31.0	14.5	1
SR 4000	4.0	8.0	5.0	18.5	14.0	11.5	23.0	7.0	2.0	32.0	2
PICK 647	10.0	45.0	5.0	42.5	15.5	30.0	7.0	9.0	1.0	42.5	3
PST-2H7	8.0	3.0	18.5	11.0	3.0	8.5	11.5	14.0	21.0	6.5	4
PICK 600 (FIESTA II)	12.0	26.0	11.0	6.0	12.0	23.5	35.0	10.5	12.5	3.5	5
TARA	7.0	62.5	1.0	53.5	8.0	10.0	11.5	7.0	15.0	16.0	6
PST-M2E	17.0	14.0	18.5	8.0	6.5	6.0	28.5	4.5	42.0	20.0	7
OMEGA II	21.0	14.0	29.5	8.0	4.0	30.0	28.5	20.5	6.5	8.5	8
PST-2DD	2.0	8.0	8.0	4.5	1.5	5.0	18.5	1.0	45.0	36.5	9
KWS-AL-2 (AQUARIUS)	1.0	40.0	5.0	15.5	10.0	1.0	40.0	2.0	54.0	49.0	10
PICK 233 (DASHER II)	13.5	18.5	29.5	28.5	28.0	13.5	1.0	29.5	6.5	53.0	11
PENNANT	15.5	22.5	49.5	4.5	25.5	42.5	3.5	42.0	10.0	2.0	12
MANHATTAN II	18.5	45.0	8.0	42.5	5.0	7.0	35.0	10.5	15.0	28.5	13
PST-2HH	9.0	53.0	44.5	60.0	17.0	8.5	46.5	20.5	8.0	23.5	14
PST-250 (COMPETITOR)	11.0	36.5	2.5	49.0	6.5	4.0	60.0	14.0	21.0	58.0	15
SR 4100	25.0	45.0	53.5	23.5	13.0	16.5	46.5	4.5	34.0	52.0	16
REPELL	24.0	26.0	18.5	38.5	19.0	23.5	15.5	3.0	26.5	18.0	17
PALMER	29.0	4.0	38.5	62.0	15.5	16.5	35.0	23.5	3.0	1.0	18
PICK 300 (BLAZER II)	6.0	53.0	2.5	50.5	18.0	13.5	64.0	16.0	17.5	26.5	19
CITATION II	22.5	8.0	53.5	1.0	9.0	30.0	60.0	14.0	21.0	49.0	20
PST-259 (COMMANDER)	13.5	45.0	53.5	53.5	22.0	23.5	42.5	17.5	4.0	23.5	21
ISI-851 (LINDSAY)	22.5	60.0	18.5	11.0	24.0	16.5	23.0	26.0	15.0	18.0	22
ALLAIRE	5.0	49.5	29.5	3.0	27.0	2.0	42.5	26.0	51.5	23.5	23
PICK 715	27.5	60.0	29.5	56.5	25.5	46.5	57.0	12.0	9.0	44.5	24
PRELUDE	26.0	45.0	44.5	53.5	20.5	11.5	11.5	20.5	17.5	6.5	25
GATOR	15.5	29.0	11.0	46.5	23.0	27.5	35.0	17.5	31.0	21.0	26
RODEO	20.0	53.0	29.5	15.5	31.0	3.0	40.0	23.5	63.0	28.5	27
PATRIOT	30.0	22.5	18.5	35.0	29.5	16.5	11.5	42.0	38.0	32.0	28
BAR LP 410	31.5	64.5	8.0	46.5	43.5	27.5	11.5	26.0	12.5	8.5	29
DERBY	43.0	8.0	29.5	28.5	37.5	38.5	23.0	48.5	5.0	58.0	30
BELLE	18.5	1.5	44.5	28.5	49.0	54.5	52.5	32.5	31.0	23.5	31
GOALIE	41.0	53.0	57.5	56.5	43.5	51.5	7.0	29.5	38.0	10.5	32
RANGER	40.0	14.0	18.5	61.0	40.0	32.5	2.0	36.5	26.5	46.5	33
246	27.5	29.0	44.5	2.0	11.0	23.5	52.5	29.5	11.0	58.0	34
PSU-222	45.5	1.5	44.5	13.0	29.5	42.5	11.5	39.5	26.5	55.5	35
YORKTOWN II	31.5	26.0	18.5	35.0	36.0	35.5	23.0	53.0	42.0	10.5	36
BIRDIE II	33.5	8.0	53.5	53.5	20.5	42.5	18.5	29.5	44.0	60.0	37
PSU-333	36.5	14.0	44.5	35.0	34.0	20.0	28.5	34.0	31.0	26.5	38
SR 4031	33.5	45.0	60.5	15.5	32.0	50.0	28.5	20.5	26.5	61.0	39
RUNAWAY	38.0	8.0	38.5	28.5	52.0	51.5	7.0	51.0	24.0	13.0	40
ACROBAT	36.5	22.5	29.5	63.0	50.0	54.5	46.5	46.0	54.0	49.0	41
CALIENTE	43.0	53.0	49.5	65.0	45.5	58.5	52.5	42.0	21.0	12.0	42
DIPLOMAT	49.5	22.5	29.5	58.5	47.5	46.5	57.0	56.5	38.0	14.5	43
MOM LP 763	52.5	32.5	44.5	28.5	51.0	23.5	3.5	48.5	35.0	44.5	44
REGAL	35.0	40.0	35.5	38.5	42.0	61.0	63.0	44.5	42.0	51.0	45
ISI-K2 (DILLON)	55.0	57.5	18.5	33.0	47.5	32.5	40.0	62.0	49.0	39.5	46

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. IF MEANS ARE TIED, THE MEAN OF THE RANKS THEY ARE TIED FOR IS USED. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
(CONT'D) CULTIVARS AT TWENTY-TWO LOCATIONS IN THE U. S. AND CANADA
1987 DATA

QUALITY RANKINGS ; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

[illegible]

NAME	NJ2	NM1	OH2	OK1	OR1	OR2	RI1	UB1	VA1	VA7	MEAN
BAR LP 454	45.5	18.5	18.5	58.5	45.5	54.5	18.5	36.5	56.0	46.5	47
NK 80389	49.5	14.0	29.5	8.0	40.0	35.5	52.5	59.0	60.5	39.5	48
BRENDA	43.0	8.0	63.0	20.5	54.0	57.0	35.0	62.0	38.0	34.0	49
RONJA	55.0	45.0	11.0	50.5	55.0	38.5	18.5	36.5	58.5	36.5	50
OVATION	52.5	36.5	29.5	18.5	59.0	42.5	52.5	48.5	60.5	30.0	51
REGENCY	63.0	64.5	53.5	28.5	37.5	58.5	46.5	62.0	21.0	32.0	52
BARRY	47.0	56.0	38.5	38.5	35.0	35.5	28.5	32.5	50.0	55.5	53
DEL 946	58.0	32.5	60.5	41.0	62.0	64.0	35.0	39.5	31.0	41.0	54
SHERIFF	39.0	49.5	53.5	46.5	53.0	48.5	60.0	48.5	62.0	36.5	55
VINTAGE-2DF	62.0	29.0	44.5	23.5	40.0	42.5	46.5	53.0	38.0	42.5	56
PENNFINE	57.0	60.0	57.5	20.5	61.0	42.5	46.5	36.5	51.5	5.0	57
MANHATTAN	59.0	36.5	18.5	11.0	58.0	54.5	15.5	55.0	54.0	18.0	58
RIVAL	55.0	32.5	60.5	28.5	60.0	35.5	62.0	64.0	47.0	36.5	59
COWBOY	48.0	57.5	64.0	28.5	33.0	23.5	57.0	53.0	57.0	64.0	60
PAVO	61.0	18.5	18.5	64.0	57.0	48.5	35.0	56.5	46.0	3.5	61
DELRAY	51.0	62.5	60.5	46.5	56.0	61.0	52.5	44.5	58.5	62.0	62
J207	64.0	18.5	18.5	44.0	63.0	61.0	23.0	59.0	48.0	54.0	63
J208	60.0	32.5	35.5	38.5	64.0	63.0	28.5	59.0	64.0	65.0	64
LINN	65.0	40.0	65.0	15.5	65.0	65.0	65.0	65.0	65.0	63.0	65

TABLE 4. SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

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

NAME	OH2	MEAN
PST-250 (COMPETITOR)	9.0	9.0
PST-2DD	9.0	9.0
246	8.7	8.7
KWS-AL-2 (AQUARIUS)	8.7	8.7
PST-2H7	8.7	8.7
PST-2HH	8.7	8.7
ACROBAT	8.3	8.3
CITATION II	8.3	8.3
GATOR	8.3	8.3
OMEGA II	8.3	8.3
PICK 300 (BLAZER II)	8.3	8.3
REGAL	8.3	8.3
RODEO	8.3	8.3
SR 4000	8.3	8.3
SR 4100	8.3	8.3
ALLAIRE	8.0	8.0
BAR LP 410	8.0	8.0
BARRY	8.0	8.0
BELLE	8.0	8.0
BIRDIE II	8.0	8.0
BRENDA	8.0	8.0
CALIENTE	8.0	8.0
COWBOY	8.0	8.0
DEL 946	8.0	8.0
DELRAY	8.0	8.0
DERBY	8.0	8.0
GOALIE	8.0	8.0
ISI-851 (LINDSAY)	8.0	8.0
ISI-K2 (DILLON)	8.0	8.0
J207	8.0	8.0
MANHATTAN	8.0	8.0
MANHATTAN II	8.0	8.0
NK 80389	8.0	8.0
OVATION	8.0	8.0
PALMER	8.0	8.0
PATRIOT	8.0	8.0
PAVO	8.0	8.0
PICK 233 (DASHER II)	8.0	8.0
PICK 600 (FIESTA II)	8.0	8.0
PICK 647	8.0	8.0
PICK 715	8.0	8.0
PRELUDE	8.0	8.0
PST-259 (COMMANDER)	8.0	8.0
PST-2PM	8.0	8.0
PST-M2E	8.0	8.0
PSU-222	8.0	8.0
PSU-333	8.0	8.0
RANGER	8.0	8.0
REGENCY	8.0	8.0
REPELL	8.0	8.0

TABLE 4. SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	OH2	MEAN
RIVAL	8.0	8.0
RONJA	8.0	8.0
RUNAWAY	8.0	8.0
SHERIFF	8.0	8.0
SR 4031	8.0	8.0
TARA	8.0	8.0
YORKTOWN II	8.0	8.0
BAR LP 454	7.7	7.7
DIPLOMAT	7.7	7.7
J208	7.7	7.7
MOM LP 763	7.7	7.7
PENNANT	7.7	7.7
PENNFINE	7.7	7.7
VINTAGE-2DF	7.7	7.7
LINN	7.0	7.0
LSD VALUE	0.5	0.5

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 5. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 1/						
NAME	MD1	NJ1	NM1	OH2	SD1	MEAN
ALLAIRE	8.3	8.0	6.0	7.0	8	7.5
PST-M2E	7.7	7.0	7.0	7.0	8	7.3
SR 4100	7.3	7.7	7.3	7.3	7	7.3
PICK 300 (BLAZER II)	7.0	7.7	6.7	7.0	8	7.3
246	7.3	7.7	6.0	7.3	8	7.3
PST-2DD	7.0	8.0	7.0	7.3	7	7.3
PST-2HH	7.3	7.3	6.7	7.0	8	7.3
PRELUDE	7.3	7.7	6.0	7.0	8	7.2
PST-2PM	7.7	7.7	6.3	7.0	7	7.1
RODEO	7.0	7.3	6.3	7.0	8	7.1
PICK 647	7.7	6.7	6.0	7.0	8	7.1
SR 4000	7.7	7.0	6.7	7.0	7	7.1
PST-2H7	7.7	7.3	6.3	7.0	7	7.1
MANHATTAN II	7.7	7.0	6.3	7.0	7	7.0
PICK 233 (DASHER II)	7.3	7.0	6.7	7.0	7	7.0
PST-250 (COMPETITOR)	7.0	8.0	6.0	7.0	7	7.0
ISI-851 (LINDSAY)	7.0	7.7	6.0	7.0	7	6.9
KWS-AL-2 (AQUARIUS)	6.7	7.7	5.0	7.3	8	6.9
PATRIOT	7.0	7.0	6.7	7.0	7	6.9
RANGER	7.0	6.7	7.0	7.0	7	6.9
RUNAWAY	7.7	7.0	6.0	7.0	7	6.9
SR 4031	7.0	7.3	6.3	7.0	7	6.9
GOALIE	7.0	8.0	6.7	6.7	6	6.9
PICK 600 (FIESTA II)	7.0	7.3	6.0	7.0	7	6.9
PICK 715	7.0	7.3	6.0	7.0	7	6.9
REGAL	7.3	8.0	6.0	7.0	6	6.9
TARA	7.0	7.0	6.3	7.0	7	6.9
COWBOY	7.0	7.3	5.7	7.0	7	6.8
DERBY	7.3	7.3	6.3	7.0	6	6.8
ISI-K2 (DILLON)	7.3	6.7	6.0	7.0	7	6.8
OMEGA II	7.0	6.7	6.3	7.0	7	6.8
PST-259 (COMMANDER)	7.3	7.0	5.7	7.0	7	6.8
VINTAGE-2DF	7.7	6.3	6.0	7.0	7	6.8
BARRY	7.3	5.7	6.7	7.0	7	6.7
BELLE	7.3	7.7	5.7	7.0	6	6.7
PENNANT	7.3	7.7	6.0	6.7	6	6.7
CITATION II	7.3	7.3	6.0	7.0	6	6.7
SHERIFF	7.0	6.7	6.7	7.0	6	6.7
PSU-222	7.0	7.3	6.0	7.0	6	6.7
PSU-333	7.3	7.0	6.0	7.0	6	6.7
ACROBAT	6.7	7.0	6.3	7.0	6	6.6
BIRDIE II	7.0	6.7	6.3	7.0	6	6.6
CALIENTE	6.7	7.3	6.0	7.0	6	6.6
GATOR	6.7	7.0	6.3	7.0	6	6.6
BRENDA	7.0	7.7	6.0	7.0	5	6.5
DIPLOMAT	6.7	6.3	6.7	7.0	6	6.5
BAR LP 410	7.0	7.3	6.3	7.0	5	6.5
MANHATTAN	7.0	5.0	7.3	7.0	6	6.5
RONJA	6.3	6.3	6.7	7.0	6	6.5
DELRAY	7.0	7.3	5.7	7.0	5	6.4

TABLE 5. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN						
NAME	MD1	NJ1	NM1	OH2	SD1	MEAN
PALMER	6.3	6.7	6.0	7.0	6	6.4
REGENCY	7.3	6.7	6.0	7.0	5	6.4
YORKTOWN II	7.0	6.7	6.3	7.0	5	6.4
REPELL	6.7	6.7	6.0	7.0	5	6.3
DEL 946	7.0	6.3	6.0	7.0	5	6.3
OVATION	6.3	6.7	6.3	7.0	5	6.3
LINN	6.7	4.3	6.0	8.0	6	6.2
MOM LP 763	6.3	6.7	6.3	6.7	5	6.2
PENNFINE	6.7	7.0	5.3	7.0	5	6.2
NK 80389	6.7	7.0	6.0	7.0	4	6.1
RIVAL	5.7	6.0	6.0	7.0	5	5.9
BAR LP 454	5.7	4.7	6.7	6.7	5	5.7
J207	6.3	4.3	6.0	7.0	5	5.7
J208	6.7	3.3	6.0	7.0	5	5.6
PAVO	6.3	3.7	6.0	7.0	5	5.6
LSD VALUE	0.8	0.9	1.2	0.3	0	0.3

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. WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

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

NAME	KS2	NM1	MEAN
DIPLOMAT	6.0	6.7	6.3
PICK 600 (FIESTA II)	5.7	7.0	6.3
J207	5.7	6.7	6.2
PICK 300 (BLAZER II)	5.7	6.7	6.2
PST-M2E	5.7	6.7	6.2
DERBY	6.0	6.3	6.2
ISI-851 (LINDSAY)	6.0	6.3	6.2
RANGER	6.0	6.3	6.2
REGAL	6.0	6.3	6.2
RUNAWAY	6.0	6.3	6.2
ACROBAT	5.3	6.7	6.0
PICK 647	6.0	6.0	6.0
REGENCY	6.0	6.0	6.0
REPELL	5.7	6.3	6.0
RONJA	5.7	6.3	6.0
BELLE	5.7	6.0	5.8
MANHATTAN	5.7	6.0	5.8
PENNANT	5.7	6.0	5.8
PICK 233 (DASHER II)	5.7	6.0	5.8
PICK 715	5.7	6.0	5.8
PST-2H7	5.7	6.0	5.8
ALLAIRE	5.3	6.3	5.8
MANHATTAN II	5.3	6.3	5.8
OMEGA II	5.3	6.3	5.8
PALMER	5.3	6.3	5.8
PAVO	5.3	6.3	5.8
PST-2DD	5.3	6.3	5.8
PST-2PM	5.3	6.3	5.8
RODEO	5.3	6.3	5.8
YORKTOWN II	5.3	6.3	5.8
GOALIE	5.7	5.7	5.7
J208	5.7	5.7	5.7
PSU-222	5.7	5.7	5.7
246	5.3	6.0	5.7
BAR LP 454	4.0	7.3	5.7
BARRY	5.0	6.3	5.7
BIRDIE II	5.0	6.3	5.7
CALIENTE	5.3	6.0	5.7
CITATION II	5.3	6.0	5.7
GATOR	5.0	6.3	5.7
NK 80389	5.3	6.0	5.7
PATRIOT	5.0	6.3	5.7
PSU-333	5.0	6.3	5.7
SR 4000	5.0	6.3	5.7
SR 4100	5.3	6.0	5.7
BRENDA	5.0	6.0	5.5
COWBOY	5.0	6.0	5.5
ISI-K2 (DILLON)	5.3	5.7	5.5
MOM LP 763	5.0	6.0	5.5
PRELUDE	5.3	5.7	5.5

TABLE 6. WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

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

NAME	KS2	NM1	MEAN
SR 4031	5.0	6.0	5.5
BAR LP 410	5.0	5.7	5.3
DEL 946	4.7	6.0	5.3
PENNFINE	4.7	6.0	5.3
PST-250 (COMPETITOR)	4.7	6.0	5.3
PST-259 (COMMANDER)	4.7	6.0	5.3
VINTAGE-2DF	5.3	5.3	5.3
DELRAY	4.7	5.7	5.2
OVATION	4.7	5.7	5.2
PST-2HH	4.7	5.7	5.2
RIVAL	4.7	5.7	5.2
KWS-AL-2 (AQUARIUS)	5.0	5.3	5.2
SHERIFF	4.7	5.3	5.0
TARA	4.7	5.3	5.0
LINN	2.3	5.7	4.0
LSD VALUE	0.8	1.1	0.7

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).

TABLE 7. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 1/			
NAME	NM1	SD1	MEAN
J208	5.7	8	6.8
PICK 300 (BLAZER II)	5.7	8	6.8
RODEO	5.7	8	6.8
RONJA	5.3	8	6.7
ALLAIRE	5.0	8	6.5
BARRY	5.0	8	6.5
ISI-851 (LINDSAY)	5.0	8	6.5
KWS-AL-2 (AQUARIUS)	5.0	8	6.5
MANHATTAN	6.0	7	6.5
PENNANT	6.0	7	6.5
PST-250 (COMPETITOR)	5.0	8	6.5
PST-2DD	5.0	8	6.5
TARA	5.0	8	6.5
DIPLOMAT	5.7	7	6.3
GOALIE	5.7	7	6.3
J207	5.7	7	6.3
PICK 233 (DASHER II)	5.7	7	6.3
PST-M2E	4.7	8	6.3
RIVAL	5.7	7	6.3
VINTAGE-2DF	5.7	7	6.3
BAR LP 410	5.3	7	6.2
BAR LP 454	5.3	7	6.2
ISI-K2 (DILLON)	5.3	7	6.2
MANHATTAN II	4.3	8	6.2
PICK 600 (FIESTA II)	4.3	8	6.2
PST-2HH	5.3	7	6.2
PSU-333	4.3	8	6.2
REGENCY	5.3	7	6.2
YORKTOWN II	4.3	8	6.2
ACROBAT	5.0	7	6.0
MOM LP 763	5.0	7	6.0
NK 80389	4.0	8	6.0
PATRIOT	4.0	8	6.0
PICK 715	5.0	7	6.0
PRELUDE	5.0	7	6.0
SR 4000	5.0	7	6.0
CITATION II	4.7	7	5.8
DEL 946	4.7	7	5.8
DELRAY	4.7	7	5.8
SHERIFF	4.7	7	5.8
SR 4100	4.7	7	5.8
246	4.3	7	5.7
BIRDIE II	4.3	7	5.7
BRENDA	4.3	7	5.7
CALIENTE	4.3	7	5.7
DERBY	4.3	7	5.7
PAVO	5.3	6	5.7
PENNFINE	4.3	7	5.7
PICK 647	4.3	7	5.7
PST-2PM	4.3	7	5.7

TABLE 7. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

NAME	NM1	SD1	MEAN
PSU-222	4.3	7	5.7
RANGER	4.3	7	5.7
RUNAWAY	4.3	7	5.7
SR 4031	4.3	7	5.7
BELLE	4.0	7	5.5
COWBOY	5.0	6	5.5
GATOR	4.0	7	5.5
OMEGA II	4.0	7	5.5
OVATION	4.0	7	5.5
PST-259 (COMMANDER)	5.0	6	5.5
PST-2H7	5.0	6	5.5
REPELL	4.0	7	5.5
PALMER	4.3	6	5.2
REGAL	4.3	6	5.2
LINN	4.3	5	4.7
LSD VALUE	1.1	0	0.5

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 8. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM 1/						
NAME	ID2	IN1	KS2	NM1	WA3	MEAN
PAVO	5.0	6.7	8.0	6.7	8.0	6.9
J208	3.7	6.7	8.3	6.7	8.3	6.7
PENNANT	4.3	7.3	7.3	6.7	8.0	6.7
SR 4000	5.3	7.0	7.7	6.7	7.0	6.7
RONJA	5.7	7.0	7.3	6.0	7.3	6.7
VINTAGE-2DF	4.0	7.3	7.3	6.7	8.0	6.7
J207	4.0	6.7	7.0	6.3	9.0	6.6
MANHATTAN	4.0	7.0	6.7	6.7	8.3	6.5
BIRDIE II	4.0	7.0	7.3	6.3	8.0	6.5
PSU-222	5.0	7.7	7.3	6.3	6.3	6.5
PST-250 (COMPETITOR)	5.0	7.3	7.0	7.0	5.7	6.4
ISI-K2 (DILLON)	4.7	7.3	6.3	6.3	7.3	6.4
BELLE	4.0	7.3	7.7	6.7	6.0	6.3
DEL 946	4.0	7.3	7.7	6.3	6.0	6.3
PST-2PM	3.7	7.3	7.0	6.0	7.3	6.3
RUNAWAY	3.7	7.0	7.3	6.0	7.3	6.3
MANHATTAN II	5.3	7.3	7.0	6.3	5.3	6.3
BAR LP 410	4.3	7.0	6.7	6.7	6.3	6.2
OMEGA II	4.7	6.7	7.3	6.3	6.0	6.2
PSU-333	4.0	7.0	6.7	6.0	7.3	6.2
SR 4100	4.0	7.3	6.7	6.3	6.7	6.2
PST-259 (COMMANDER)	3.7	6.7	7.0	7.0	6.3	6.1
DERBY	3.7	7.0	7.0	6.3	6.7	6.1
SHERIFF	4.7	6.0	7.3	6.0	6.3	6.1
BRENDA	3.3	7.7	7.3	6.0	5.7	6.0
GATOR	4.3	7.0	6.7	6.3	5.7	6.0
PENNFINE	2.7	7.3	7.0	5.3	7.7	6.0
PICK 233 (DASHER II)	4.7	7.0	7.7	6.3	4.3	6.0
REGENCY	3.3	7.7	7.0	5.3	6.7	6.0
BARRY	4.3	7.0	7.3	7.0	4.3	6.0
ACROBAT	4.3	7.7	6.7	6.0	5.0	5.9
GOALIE	3.7	7.0	7.7	6.7	4.7	5.9
PATRIOT	3.7	6.7	7.3	5.7	6.3	5.9
PICK 600 (FIESTA II)	4.3	7.3	7.3	7.0	3.7	5.9
REPELL	4.7	7.0	7.3	6.0	4.7	5.9
DIPLOMAT	4.3	7.0	7.7	6.3	4.3	5.9
PALMER	4.0	7.3	6.3	6.0	6.0	5.9
ALLAIRE	4.7	7.0	8.0	6.7	3.0	5.9
RIVAL	5.0	7.7	7.7	7.0	2.0	5.9
PICK 715	4.3	7.3	6.3	6.3	5.0	5.9
YORKTOWN II	3.7	7.7	7.3	6.3	4.3	5.9
CALIENTE	3.0	7.0	6.7	6.3	6.0	5.8
PICK 647	3.0	7.0	6.7	6.0	6.3	5.8
SR 4031	2.7	7.0	6.3	6.7	6.0	5.7
TARA	3.3	7.3	6.7	6.7	4.7	5.7
246	4.0	7.0	6.3	6.0	5.3	5.7
RODEO	4.3	7.3	7.3	5.7	3.7	5.7
OVATION	3.0	7.7	7.3	6.3	4.0	5.7
ISI-851 (LINDSAY)	3.7	6.7	7.0	6.3	4.0	5.5
KWS-AL-2 (AQUARIUS)	5.0	7.0	6.3	6.3	3.0	5.5

TABLE 8. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM

NAME	ID2	IN1	KS2	NM1	WA3	MEAN
PST-2HH	4.0	7.0	6.3	6.3	4.0	5.5
BAR LP 454	5.0	7.0	7.0	6.3	2.0	5.5
CITATION II	3.0	7.3	6.7	6.7	3.7	5.5
MOM LP 763	4.0	6.7	6.3	6.3	4.0	5.5
PST-2H7	3.3	7.0	6.7	7.0	3.3	5.5
PST-M2E	4.3	7.0	6.7	6.7	2.7	5.5
RANGER	2.7	7.3	6.7	6.7	3.7	5.4
PST-2DD	4.7	6.3	6.7	7.0	2.0	5.3
NK 80389	4.7	7.0	7.3	5.3	1.7	5.2
REGAL	3.7	7.0	6.7	6.0	2.7	5.2
PRELUDE	2.7	7.3	6.3	5.7	3.7	5.1
PICK 300 (BLAZER II)	3.3	7.0	6.7	6.7	1.7	5.1
LINN	1.3	6.3	6.0	6.0	5.3	5.0
COWBOY	3.0	6.0	6.3	4.7	4.3	4.9
DELRAY	1.3	7.0	6.7	5.3	3.0	4.7
LSD VALUE	1.7	1.1	1.0	1.4	2.7	0.8

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).

TABLE 9. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/			
NAME	IN1	NM1	MEAN
BAR LP 454	7.7	6.7	7.2
ALLAIRE	7.3	6.7	7.0
MANHATTAN II	7.0	7.0	7.0
BAR LP 410	7.0	6.7	6.8
BARRY	7.0	6.7	6.8
BRENDA	6.7	7.0	6.8
NK 80389	7.7	6.0	6.8
PST-M2E	6.7	7.0	6.8
RIVAL	6.7	7.0	6.8
SR 4000	7.0	6.7	6.8
PST-2DD	7.3	6.3	6.8
RONJA	7.3	6.3	6.8
CITATION II	6.7	6.7	6.7
MOM LP 763	6.7	6.7	6.7
OMEGA II	6.7	6.7	6.7
PAVO	6.7	6.7	6.7
PICK 647	6.7	6.7	6.7
TARA	6.7	6.7	6.7
ACROBAT	6.0	7.3	6.7
BELLE	6.3	7.0	6.7
J208	7.3	6.0	6.7
PATRIOT	7.0	6.3	6.7
PICK 715	6.3	7.0	6.7
PST-250 (COMPETITOR)	6.3	7.0	6.7
PST-2PM	7.0	6.3	6.7
PSU-222	6.0	7.3	6.7
DERBY	6.3	6.7	6.5
ISI-851 (LINDSAY)	7.0	6.0	6.5
ISI-K2 (DILLON)	6.3	6.7	6.5
J207	6.3	6.7	6.5
MANHATTAN	7.0	6.0	6.5
PST-2H7	6.7	6.3	6.5
PST-2HH	7.0	6.0	6.5
RANGER	6.0	7.0	6.5
REGAL	6.3	6.7	6.5
REPELL	7.0	6.0	6.5
VINTAGE-2DF	6.0	7.0	6.5
DEL 946	6.0	6.7	6.3
GATOR	6.7	6.0	6.3
PENNANT	6.0	6.7	6.3
PICK 300 (BLAZER II)	6.7	6.0	6.3
PSU-333	6.0	6.7	6.3
RODEO	7.0	5.7	6.3
YORKTOWN II	6.7	6.0	6.3
PICK 233 (DASHER II)	6.3	6.3	6.3
PICK 600 (FIESTA II)	6.3	6.3	6.3
PST-259 (COMMANDER)	6.3	6.3	6.3
RUNAWAY	6.3	6.3	6.3
246	6.3	6.0	6.2
CALIENTE	6.0	6.3	6.2

TABLE 9. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/			
NAME	IN1	NM1	MEAN
PENNFINE	6.0	6.3	6.2
SR 4100	6.0	6.3	6.2
BIRDIE II	5.7	6.3	6.0
DIPLOMAT	6.0	6.0	6.0
KWS-AL-2 (AQUARIUS)	7.0	5.0	6.0
OVATION	6.7	5.3	6.0
PALMER	5.7	6.3	6.0
SHERIFF	6.0	6.0	6.0
GOALIE	5.7	6.0	5.8
PRELUDE	5.7	6.0	5.8
SR 4031	6.0	5.7	5.8
REGENCY	6.3	5.3	5.8
DELRAY	6.3	5.0	5.7
COWBOY	6.0	5.0	5.5
LINN	5.3	5.7	5.5
LSD VALUE	1.0	1.7	1.0

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 10. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/			
NAME	IN1	NM1	MEAN
PALMER	7.0	7.0	7.0
PICK 600 (FIESTA II)	7.0	7.0	7.0
PICK 233 (DASHER II)	7.0	6.7	6.8
YORKTOWN II	6.7	7.0	6.8
BIRDIE II	6.7	6.7	6.7
NK 80389	6.7	6.7	6.7
PST-250 (COMPETITOR)	6.7	6.7	6.7
PST-M2E	6.7	6.7	6.7
REGAL	6.7	6.7	6.7
BRENDA	7.0	6.3	6.7
MOM LP 763	6.3	7.0	6.7
PICK 715	7.0	6.3	6.7
PST-2DD	7.0	6.3	6.7
PSU-333	6.3	7.0	6.7
SR 4100	7.0	6.3	6.7
ACROBAT	6.3	6.7	6.5
CALIENTE	7.0	6.0	6.5
CITATION II	6.3	6.7	6.5
DEL 946	6.3	6.7	6.5
GOALIE	7.0	6.0	6.5
OMEGA II	6.3	6.7	6.5
PATRIOT	6.3	6.7	6.5
PICK 300 (BLAZER II)	7.0	6.0	6.5
PRELUDE	6.7	6.3	6.5
REPELL	6.3	6.7	6.5
RIVAL	6.3	6.7	6.5
SR 4000	6.7	6.3	6.5
SR 4031	6.7	6.3	6.5
VINTAGE-2DF	6.7	6.3	6.5
DELRAY	7.0	5.7	6.3
DERBY	6.0	6.7	6.3
MANHATTAN II	6.7	6.0	6.3
PST-2HH	6.7	6.0	6.3
PSU-222	5.7	7.0	6.3
RUNAWAY	6.0	6.7	6.3
ALLAIRE	6.3	6.3	6.3
GATOR	6.3	6.3	6.3
PST-2PM	6.3	6.3	6.3
RANGER	6.3	6.3	6.3
RODEO	6.3	6.3	6.3
BELLE	5.7	6.7	6.2
246	6.0	6.3	6.2
BAR LP 454	6.3	6.0	6.2
KWS-AL-2 (AQUARIUS)	7.0	5.3	6.2
PENNANT	6.0	6.3	6.2
PENNFINE	6.3	6.0	6.2
PST-259 (COMMANDER)	6.3	6.0	6.2
PST-2H7	6.3	6.0	6.2
BAR LP 410	6.0	6.0	6.0
COWBOY	6.0	6.0	6.0

TABLE 10. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM

NAME	IN1	NM1	MEAN
ISI-851 (LINDSAY)	6.0	6.0	6.0
OVATION	5.7	6.3	6.0
PICK 647	6.3	5.7	6.0
RONJA	5.7	6.3	6.0
TARA	7.0	5.0	6.0
PAVO	5.0	6.7	5.8
SHERIFF	6.0	5.7	5.8
ISI-K2 (DILLON)	5.3	6.3	5.8
DIPLOMAT	5.3	6.0	5.7
MANHATTAN	5.0	6.3	5.7
BARRY	5.0	6.0	5.5
J207	4.3	6.3	5.3
J208	4.7	5.7	5.2
LINN	4.0	6.3	5.2
REGENCY	5.7	4.3	5.0
LSD VALUE	1.1	1.3	0.9

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).

TABLE 11. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/			
NAME	NM1	SD1	MEAN
BAR LP 454	8.0	9	8.5
PST-M2E	8.7	8	8.3
PSU-222	8.3	8	8.2
REPELL	7.3	9	8.2
ISI-851 (LINDSAY)	7.0	9	8.0
J208	8.0	8	8.0
MANHATTAN II	7.0	9	8.0
PICK 600 (FIESTA II)	8.0	8	8.0
RONJA	8.0	8	8.0
PST-250 (COMPETITOR)	7.7	8	7.8
PSU-333	7.7	8	7.8
VINTAGE-2DF	7.7	8	7.8
CITATION II	8.7	7	7.8
RANGER	8.3	7	7.7
RUNAWAY	8.3	7	7.7
GATOR	7.3	8	7.7
KWS-AL-2 (AQUARIUS)	7.3	8	7.7
OVATION	7.3	8	7.7
TARA	7.3	8	7.7
BELLE	8.0	7	7.5
CALIENTE	6.0	9	7.5
DEL 946	8.0	7	7.5
DELRAY	7.0	8	7.5
DERBY	8.0	7	7.5
MANHATTAN	8.0	7	7.5
PALMER	8.0	7	7.5
PAVO	8.0	7	7.5
PICK 300 (BLAZER II)	7.0	8	7.5
PST-2H7	8.0	7	7.5
SR 4000	8.0	7	7.5
ACROBAT	7.7	7	7.3
BAR LP 410	6.7	8	7.3
BARRY	6.7	8	7.3
BIRDIE II	7.7	7	7.3
BRENDA	7.7	7	7.3
J207	7.7	7	7.3
NK 80389	7.7	7	7.3
PENNANT	7.7	7	7.3
PICK 715	6.7	8	7.3
PST-259 (COMMANDER)	7.7	7	7.3
PST-2PM	7.7	7	7.3
RODEO	6.7	8	7.3
DIPLOMAT	7.3	7	7.2
PICK 233 (DASHER II)	7.3	7	7.2
PICK 647	7.3	7	7.2
PRELUDE	6.3	8	7.2
RIVAL	7.3	7	7.2
SHERIFF	7.3	7	7.2
ALLAIRE	7.0	7	7.0
GOALIE	7.0	7	7.0

TABLE 11. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM

NAME	NM1	SD1	MEAN
MOM LP 763	7.0	7	7.0
PATRIOT	7.0	7	7.0
PST-2DD	7.0	7	7.0
REGENCY	7.0	7	7.0
SR 4100	7.0	7	7.0
YORKTOWN II	7.0	7	7.0
ISI-K2 (DILLON)	6.7	7	6.8
OMEGA II	7.7	6	6.8
PENNFINE	6.3	7	6.7
PST-2HH	7.0	6	6.5
246	7.7	5	6.3
REGAL	7.7	5	6.3
COWBOY	7.3	5	6.2
SR 4031	7.3	5	6.2
LINN	7.3	4	5.7
LSD VALUE	2.0	0	1.0

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 12. PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN SPRING 1/			
NAME	MO1	NM1	MEAN
DIPLOMAT	97.0	90.7	93.8
CALIENTE	95.0	91.3	93.2
MANHATTAN	97.0	87.0	92.0
PAVO	96.0	87.3	91.7
PSU-333	96.0	87.3	91.7
VINTAGE-2DF	97.0	86.0	91.5
ISI-851 (LINDSAY)	96.0	86.3	91.2
ISI-K2 (DILLON)	96.0	86.0	91.0
PENNANT	97.0	85.0	91.0
PALMER	95.0	86.0	90.5
PICK 600 (FIESTA II)	96.0	85.0	90.5
PICK 647	95.0	86.0	90.5
RODEO	96.0	85.0	90.5
DEL 946	96.0	84.3	90.2
BRENDA	94.3	85.7	90.0
PICK 233 (DASHER II)	96.0	84.0	90.0
PICK 715	96.0	84.0	90.0
BELLE	95.0	84.7	89.8
MANHATTAN II	96.0	83.3	89.7
OMEGA II	94.3	85.0	89.7
RUNAWAY	97.0	82.3	89.7
PICK 300 (BLAZER II)	96.0	82.7	89.3
PST-2HH	97.0	81.7	89.3
ACROBAT	95.0	83.0	89.0
YORKTOWN II	95.3	82.7	89.0
BARRY	95.0	82.7	88.8
GOALIE	95.0	82.0	88.5
SR 4000	95.0	82.0	88.5
PSU-222	95.0	81.7	88.3
J207	94.3	81.7	88.0
COWBOY	93.3	82.3	87.8
ALLAIRE	95.3	80.0	87.7
BAR LP 454	96.0	79.3	87.7
PENNFINE	96.0	79.3	87.7
RIVAL	96.0	79.3	87.7
TARA	95.0	80.0	87.5
PST-2DD	96.0	78.7	87.3
PRELUDE	96.0	78.3	87.2
RANGER	95.0	79.3	87.2
MOM LP 763	94.3	79.3	86.8
BAR LP 410	96.0	76.7	86.3
PST-2H7	95.0	77.3	86.2
J208	94.3	77.7	86.0
PST-2PM	97.0	75.0	86.0
PST-250 (COMPETITOR)	95.0	76.7	85.8
DERBY	95.0	76.3	85.7
REPELL	98.0	73.3	85.7
PST-259 (COMMANDER)	94.3	76.7	85.5
SR 4100	96.0	72.7	84.3
BIRDIE II	95.0	73.3	84.2

TABLE 12. PERCENT LIVING GROUND COVER (SPRING)
(CONT'D) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN SPRING			
NAME	MO1	NM1	MEAN
OVATION	96.0	72.3	84.2
REGAL	93.3	75.0	84.2
RONJA	95.0	73.3	84.2
SR 4031	97.0	71.3	84.2
REGENCY	95.0	71.7	83.3
PST-M2E	93.3	73.3	83.3
SHERIFF	96.0	70.0	83.0
DELRAY	96.0	69.3	82.7
GATOR	97.0	68.3	82.7
PATRIOT	95.0	70.3	82.7
CITATION II	96.0	67.7	81.8
246	95.0	65.0	80.0
LINN	90.0	68.3	79.2
NK 80389	95.0	61.7	78.3
KWS-AL-2 (AQUARIUS)	98.0	55.0	76.5
LSD VALUE	3.4	23.0	11.6

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

TABLE 13. PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN SUMMER 1/			
NAME	IN1	NM1	MEAN
PSU-333	96.3	92.3	94.3
PST-250 (COMPETITOR)	97.7	89.7	93.7
ACROBAT	96.3	91.0	93.7
SR 4000	97.7	89.3	93.5
PENNANT	97.7	89.0	93.3
PALMER	97.7	88.7	93.2
PICK 600 (FIESTA II)	96.3	90.0	93.2
CITATION II	96.3	89.0	92.7
NK 80389	96.3	89.0	92.7
PST-2PM	99.0	86.0	92.5
RUNAWAY	95.0	90.0	92.5
SR 4100	96.3	88.7	92.5
YORKTOWN II	95.0	90.0	92.5
DEL 946	96.3	88.0	92.2
PICK 233 (DASHER II)	99.0	85.0	92.0
PST-2H7	99.0	85.0	92.0
RANGER	96.0	88.0	92.0
REPELL	95.0	88.7	91.8
PST-M2E	96.3	87.3	91.8
PST-259 (COMMANDER)	97.7	85.7	91.7
BIRDIE II	96.3	87.0	91.7
RIVAL	96.3	86.7	91.5
BRENDA	90.0	92.7	91.3
MANHATTAN II	96.3	86.3	91.3
MOM LP 763	96.3	86.3	91.3
CALIENTE	97.7	84.3	91.0
MANHATTAN	93.0	88.7	90.8
PAVO	90.0	91.3	90.7
PSU-222	93.3	88.0	90.7
PICK 715	96.0	85.0	90.5
246	96.0	84.7	90.3
GATOR	95.0	85.7	90.3
DERBY	94.3	86.3	90.3
OMEGA II	91.7	88.3	90.0
PRELUDE	96.0	84.0	90.0
SR 4031	95.0	84.3	89.7
BELLE	91.7	87.3	89.5
PST-2DD	94.7	84.0	89.3
ALLAIRE	91.3	87.3	89.3
VINTAGE-2DF	96.3	82.3	89.3
PATRIOT	91.7	86.7	89.2
BAR LP 410	94.7	83.3	89.0
ISI-851 (LINDSAY)	96.3	81.7	89.0
SHERIFF	97.7	80.0	88.8
REGAL	93.3	84.3	88.8
DELRAY	99.0	78.3	88.7
BARRY	90.0	87.0	88.5
RODEO	93.0	83.7	88.3
COWBOY	96.3	80.0	88.2
PICK 647	95.0	81.0	88.0

TABLE 13. PERCENT LIVING GROUND COVER (SUMMER)
(CONT'D) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN SUMMER			
NAME	IN1	NM1	MEAN
DIPLOMAT	90.0	85.0	87.5
ISI-K2 (DILLON)	86.7	88.3	87.5
BAR LP 454	94.7	80.0	87.3
KWS-AL-2 (AQUARIUS)	96.3	78.3	87.3
OVATION	90.0	84.3	87.2
PST-2HH	95.0	79.3	87.2
GOALIE	96.3	77.7	87.0
RONJA	93.0	81.0	87.0
TARA	99.0	74.3	86.7
PENNFINE	93.3	79.3	86.3
PICK 300 (BLAZER II)	91.7	79.3	85.5
J207	81.7	87.7	84.7
J208	80.0	81.7	80.8
REGENCY	93.3	62.0	77.7
LINN	71.7	81.7	76.7
LSD VALUE	6.9	12.7	7.2

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).

TABLE 14. PERCENT LIVING GROUND COVER (FALL)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN FALL 1/				
NAME	NM1	VA1	VA7	MEAN
PICK 233 (DASHER II)	87.7	66.7	52.0	68.8
DERBY	91.0	61.7	51.7	68.1
PICK 600 (FIESTA II)	87.0	60.0	55.3	67.4
RANGER	93.3	56.7	52.3	67.4
GATOR	86.0	63.3	52.3	67.2
PATRIOT	90.3	56.7	52.7	66.6
REGAL	90.7	56.7	52.3	66.6
BELLE	92.7	53.3	52.3	66.1
246	85.3	58.3	51.7	65.1
RIVAL	89.0	53.3	52.0	64.8
BRENDA	88.3	53.3	51.3	64.3
PSU-333	89.3	50.0	53.7	64.3
DELRAY	88.3	51.7	52.3	64.1
SR 4031	86.0	53.3	52.7	64.0
J207	89.3	50.0	52.0	63.8
PST-250 (COMPETITOR)	84.3	55.0	52.0	63.8
NK 80389	88.3	48.3	53.0	63.2
SR 4000	91.0	61.7	36.7	63.1
PICK 715	81.7	55.0	51.7	62.8
J208	91.0	45.0	51.3	62.4
ALLAIRE	84.7	48.3	52.0	61.7
VINTAGE-2DF	80.0	53.3	51.7	61.7
RUNAWAY	91.7	56.7	36.3	61.6
BARRY	83.3	48.3	52.7	61.4
PENNANT	85.0	61.7	37.7	61.4
PSU-222	91.3	56.7	36.0	61.3
PST-2PM	89.3	58.3	35.7	61.1
OVATION	81.0	50.0	51.7	60.9
REGENCY	81.3	63.3	37.0	60.6
DEL 946	89.3	55.0	36.0	60.1
CALIENTE	82.7	58.3	38.0	59.7
DIPLOMAT	86.0	56.7	36.3	59.7
PALMER	89.3	68.3	21.3	59.7
SHERIFF	88.0	53.3	37.0	59.4
MANHATTAN II	85.0	56.7	35.7	59.1
PRELUDE	76.0	63.3	37.3	58.9
CITATION II	93.3	48.3	35.0	58.9
BAR LP 410	81.0	56.7	38.7	58.8
REPELL	86.0	53.3	36.7	58.7
RODEO	80.0	43.3	52.3	58.6
ACROBAT	90.0	50.0	35.3	58.4
TARA	86.7	51.7	36.7	58.3
YORKTOWN II	76.7	60.0	37.3	58.0
PICK 647	85.0	66.7	21.0	57.6
BIRDIE II	88.3	48.3	35.3	57.3
MOM LP 763	82.3	51.7	37.0	57.0
SR 4100	82.3	51.7	36.3	56.8
KWS-AL-2 (AQUARIUS)	82.7	50.0	36.0	56.2
PST-259 (COMMANDER)	87.7	61.7	19.3	56.2
MANHATTAN	86.7	43.3	36.7	55.6

TABLE 14. PERCENT LIVING GROUND COVER (FALL)
(CONT'D) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN FALL				
NAME	NM1	VA1	VA7	MEAN
PAVO	89.3	56.7	20.0	55.3
RONJA	89.3	56.7	19.3	55.1
COWBOY	86.0	43.3	35.3	54.9
OMEGA II	87.7	56.7	20.3	54.9
PST-M2E	93.3	50.0	20.7	54.7
PICK 300 (BLAZER II)	76.0	50.0	37.3	54.4
LINN	86.0	40.0	35.3	53.8
BAR LP 454	91.0	51.7	18.7	53.8
ISI-851 (LINDSAY)	83.3	56.7	19.7	53.2
PST-2HH	78.3	60.0	20.0	52.8
ISI-K2 (DILLON)	79.7	40.0	36.7	52.1
GOALIE	77.7	58.3	20.0	52.0
PST-2H7	86.7	48.3	20.7	51.9
PST-2DD	83.3	51.7	19.7	51.6
PENNFINE	77.7	48.3	20.0	48.7
LSD VALUE	15.5	12.4	36.5	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).

TABLE 15. FUSARIUM PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

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

NAME	OH2	MEAN
ACROBAT	9.0	9.0
BAR LP 410	9.0	9.0
DERBY	9.0	9.0
GATOR	9.0	9.0
GOALIE	9.0	9.0
ISI-851 (LINDSAY)	9.0	9.0
J207	9.0	9.0
MOM LP 763	9.0	9.0
PAVO	9.0	9.0
PENNANT	9.0	9.0
PENNFINE	9.0	9.0
PICK 300 (BLAZER II)	9.0	9.0
PRELUDE	9.0	9.0
PST-250 (COMPETITOR)	9.0	9.0
PST-2H7	9.0	9.0
PSU-222	9.0	9.0
PSU-333	9.0	9.0
REGENCY	9.0	9.0
REPELL	9.0	9.0
RONJA	9.0	9.0
RUNAWAY	9.0	9.0
TARA	9.0	9.0
VINTAGE-2DF	9.0	9.0
YORKTOWN II	9.0	9.0
ALLAIRE	8.7	8.7
BELLE	8.7	8.7
CALIENTE	8.7	8.7
DEL 946	8.7	8.7
DELRAY	8.7	8.7
MANHATTAN	8.7	8.7
MANHATTAN II	8.7	8.7
NK 80389	8.7	8.7
PICK 647	8.7	8.7
PICK 715	8.7	8.7
PST-2PM	8.7	8.7
RANGER	8.7	8.7
SR 4031	8.7	8.7
SR 4100	8.7	8.7
246	8.3	8.3
BRENDA	8.3	8.3
CITATION II	8.3	8.3
COWBOY	8.3	8.3
DIPLOMAT	8.3	8.3
ISI-K2 (DILLON)	8.3	8.3
OVATION	8.3	8.3
PALMER	8.3	8.3
PATRIOT	8.3	8.3
PICK 233 (DASHER II)	8.3	8.3
PICK 600 (FIESTA II)	8.3	8.3
PST-2HH	8.3	8.3

TABLE 15. FUSARIUM PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

FUSARIUM PATCH RATINGS 1-9; 9=NO DISEASE

NAME	OH2	MEAN
REGAL	8.3	8.3
SHERIFF	8.3	8.3
BAR LP 454	8.0	8.0
KWS-AL-2 (AQUARIUS)	8.0	8.0
PST-259 (COMMANDER)	8.0	8.0
PST-M2E	8.0	8.0
RODEO	8.0	8.0
BIRDIE II	7.7	7.7
OMEGA II	7.7	7.7
PST-2DD	7.7	7.7
BARRY	7.3	7.3
J208	7.3	7.3
SR 4000	7.3	7.3
RIVAL	5.3	5.3
LINN	2.7	2.7
LSD VALUE	1.1	1.1

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).

TABLE 16.
MELTING OUT (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

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

NAME	NM1	MEAN
DIPLOMAT	6.0	6.0
MANHATTAN	6.0	6.0
PENNANT	6.0	6.0
ACROBAT	5.7	5.7
BAR LP 454	5.7	5.7
CITATION II	5.7	5.7
COWBOY	5.7	5.7
DEL 946	5.7	5.7
GATOR	5.7	5.7
J207	5.7	5.7
MANHATTAN II	5.7	5.7
PAVO	5.7	5.7
PICK 233 (DASHER II)	5.7	5.7
PST-259 (COMMANDER)	5.7	5.7
VINTAGE-2DF	5.7	5.7
ALLAIRE	5.3	5.3
BELLE	5.3	5.3
BRENDA	5.3	5.3
CALIENTE	5.3	5.3
DERBY	5.3	5.3
GOALIE	5.3	5.3
ISI-K2 (DILLON)	5.3	5.3
LINN	5.3	5.3
MOM LP 763	5.3	5.3
OMEGA II	5.3	5.3
OVATION	5.3	5.3
PENNFINE	5.3	5.3
PICK 300 (BLAZER II)	5.3	5.3
PICK 600 (FIESTA II)	5.3	5.3
PICK 647	5.3	5.3
PICK 715	5.3	5.3
PST-2DD	5.3	5.3
PST-M2E	5.3	5.3
RANGER	5.3	5.3
REGAL	5.3	5.3
RIVAL	5.3	5.3
RODEO	5.3	5.3
RONJA	5.3	5.3
RUNAWAY	5.3	5.3
SR 4100	5.3	5.3
TARA	5.3	5.3
YORKTOWN II	5.3	5.3
246	5.0	5.0
BAR LP 410	5.0	5.0
BARRY	5.0	5.0
BIRDIE II	5.0	5.0
DELRAY	5.0	5.0
ISI-851 (LINDSAY)	5.0	5.0
J208	5.0	5.0
KWS-AL-2 (AQUARIUS)	5.0	5.0

TABLE 16. (CONT'D)
MELTING OUT (SPRING) RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

MELTING OUT RATINGS 1-9; 9=NO DISEASE

NAME	NM1	MEAN
NK 80389	5.0	5.0
PALMER	5.0	5.0
PATRIOT	5.0	5.0
PRELUDE	5.0	5.0
PST-250 (COMPETITOR)	5.0	5.0
PST-2H7	5.0	5.0
PST-2HH	5.0	5.0
PST-2PM	5.0	5.0
PSU-222	5.0	5.0
PSU-333	5.0	5.0
REGENCY	5.0	5.0
REPELL	5.0	5.0
SHERIFF	5.0	5.0
SR 4000	5.0	5.0
SR 4031	5.0	5.0
LSD VALUE	0.9	0.9

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).

TABLE 17. NET BLOTCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987 DATA

NET BLOTCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ1	MEAN
PST-2H7	9.0	9.0
PST-2PM	8.7	8.7
ALLAIRE	8.3	8.3
ISI-851 (LINDSAY)	8.3	8.3
PRELUDE	8.3	8.3
CITATION II	8.0	8.0
NK 80389	8.0	8.0
OMEGA II	8.0	8.0
PALMER	8.0	8.0
PATRIOT	8.0	8.0
PENNANT	8.0	8.0
PICK 300 (BLAZER II)	8.0	8.0
PST-250 (COMPETITOR)	8.0	8.0
PST-259 (COMMANDER)	8.0	8.0
PST-2HH	8.0	8.0
246	7.7	7.7
BIRDIE II	7.7	7.7
MANHATTAN II	7.7	7.7
PICK 715	7.7	7.7
RUNAWAY	7.7	7.7
SR 4100	7.7	7.7
YORKTOWN II	7.7	7.7
DIPLOMAT	7.3	7.3
KWS-AL-2 (AQUARIUS)	7.3	7.3
PICK 233 (DASHER II)	7.3	7.3
PICK 647	7.3	7.3
PST-2DD	7.3	7.3
PSU-333	7.3	7.3
REPELL	7.3	7.3
SR 4031	7.3	7.3
COWBOY	7.0	7.0
GOALIE	7.0	7.0
PICK 600 (FIESTA II)	7.0	7.0
PST-M2E	7.0	7.0
SR 4000	7.0	7.0
BELLE	6.7	6.7
DERBY	6.7	6.7
GATOR	6.7	6.7
ISI-K2 (DILLON)	6.7	6.7
PSU-222	6.7	6.7
RANGER	6.7	6.7
REGAL	6.7	6.7
RODEO	6.7	6.7
TARA	6.7	6.7
VINTAGE-2DF	6.7	6.7
J208	6.3	6.3
CALIENTE	6.0	6.0
DEL 946	6.0	6.0
J207	6.0	6.0
MANHATTAN	6.0	6.0

TABLE 17. NET BLOTCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

NET BLOTCH RATINGS 1-9; 9=NO DISEASE

NAME	NJ1	MEAN
OVATION	5.7	5.7
PAVO	5.7	5.7
REGENCY	5.7	5.7
RONJA	5.7	5.7
BARRY	5.3	5.3
MOM LP 763	5.3	5.3
BAR LP 410	5.0	5.0
SHERIFF	4.3	4.3
LINN	4.0	4.0
PENNFINE	4.0	4.0
DELRAY	3.3	3.3
ACROBAT	3.0	3.0
BRENDA	3.0	3.0
BAR LP 454	2.0	2.0
RIVAL	1.7	1.7
LSD VALUE	1.5	1.5

1/ THE PATHOGEN OBSERVED WAS H. DICTYOIDES.

2/ 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 18. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

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

NAME	VA1	MEAN
OMEGA II	7.7	7.7
PALMER	7.7	7.7
CALIENTE	7.3	7.3
DERBY	7.3	7.3
PICK 647	7.3	7.3
PRELUDE	7.3	7.3
BIRDIE II	7.0	7.0
DIPLOMAT	7.0	7.0
PENNANT	7.0	7.0
PICK 233 (DASHER II)	7.0	7.0
PST-2H7	7.0	7.0
PST-2HH	7.0	7.0
PSU-333	7.0	7.0
RANGER	7.0	7.0
SR 4031	7.0	7.0
SR 4100	7.0	7.0
VINTAGE-2DF	7.0	7.0
CITATION II	6.7	6.7
GOALIE	6.7	6.7
ISI-K2 (DILLON)	6.7	6.7
PICK 300 (BLAZER II)	6.7	6.7
PICK 715	6.7	6.7
PST-259 (COMMANDER)	6.7	6.7
PST-2PM	6.7	6.7
REGAL	6.7	6.7
REPELL	6.7	6.7
RUNAWAY	6.7	6.7
SR 4000	6.7	6.7
BAR LP 410	6.3	6.3
BRENDA	6.3	6.3
DEL 946	6.3	6.3
GATOR	6.3	6.3
ISI-851 (LINDSAY)	6.3	6.3
J207	6.3	6.3
LINN	6.3	6.3
MANHATTAN	6.3	6.3
MOM LP 763	6.3	6.3
PAVO	6.3	6.3
PENNFINE	6.3	6.3
PST-250 (COMPETITOR)	6.3	6.3
PSU-222	6.3	6.3
RONJA	6.3	6.3
YORKTOWN II	6.3	6.3
246	6.0	6.0
ALLAIRE	6.0	6.0
BAR LP 454	6.0	6.0
BARRY	6.0	6.0
DELRAY	6.0	6.0
J208	6.0	6.0
NK 80389	6.0	6.0

TABLE 18. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE

NAME	VA1	MEAN
OVATION	6.0	6.0
PICK 600 (FIESTA II)	6.0	6.0
PST-2DD	6.0	6.0
REGENCY	6.0	6.0
TARA	6.0	6.0
COWBOY	5.7	5.7
MANHATTAN II	5.7	5.7
PST-M2E	5.7	5.7
ACROBAT	5.3	5.3
BELLE	5.3	5.3
PATRIOT	5.3	5.3
KWS-AL-2 (AQUARIUS)	5.0	5.0
RODEO	5.0	5.0
RIVAL	4.7	4.7
SHERIFF	4.7	4.7
LSD VALUE	1.1	1.1

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).

TABLE 19. BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 1/				
NAME	IN1	NJ2	VA1	MEAN
SR 4000	8.3	7.3	8.3	8.0
CALIENTE	7.7	6.3	8.7	7.6
PICK 300 (BLAZER II)	7.7	6.0	8.7	7.4
PALMER	7.3	6.0	9.0	7.4
PENNFINE	8.7	5.0	8.3	7.3
DELRAY	7.7	5.7	8.3	7.2
PST-259 (COMMANDER)	8.0	6.0	7.7	7.2
PST-M2E	8.0	5.7	8.0	7.2
SHERIFF	8.0	5.7	8.0	7.2
TARA	8.3	6.0	7.3	7.2
GOALIE	7.3	6.0	8.3	7.2
PENNANT	6.3	6.7	8.7	7.2
PST-2H7	7.3	6.0	8.3	7.2
OMEGA II	8.0	4.7	8.7	7.1
PICK 233 (DASHER II)	7.0	5.7	8.7	7.1
PST-2PM	7.0	6.7	7.7	7.1
BAR LP 410	7.0	5.3	9.0	7.1
BIRDIE II	6.3	6.3	8.3	7.0
COWBOY	8.7	5.0	7.3	7.0
PST-2HH	7.0	6.0	8.0	7.0
YORKTOWN II	7.3	5.7	8.0	7.0
PSU-222	7.3	5.7	7.7	6.9
BRENDA	7.0	5.3	8.3	6.9
PICK 647	7.0	5.3	8.3	6.9
SR 4031	6.7	5.3	8.3	6.8
SR 4100	5.7	6.0	8.7	6.8
DERBY	7.3	5.3	7.7	6.8
GATOR	6.3	5.3	8.7	6.8
CITATION II	7.3	5.7	7.0	6.7
MOM LP 763	6.3	4.7	9.0	6.7
PICK 715	7.7	4.7	7.7	6.7
REGAL	7.7	5.0	7.3	6.7
PRELUDE	7.3	5.7	6.7	6.6
REPELL	7.0	5.0	7.7	6.6
BELLE	6.0	5.3	8.3	6.6
ACROBAT	5.7	4.7	9.0	6.4
DEL 946	6.0	4.7	8.7	6.4
DIPLOMAT	7.3	3.7	8.3	6.4
PICK 600 (FIESTA II)	6.7	4.7	8.0	6.4
ISI-851 (LINDSAY)	7.3	4.3	7.7	6.4
KWS-AL-2 (AQUARIUS)	7.3	4.7	7.3	6.4
OVATION	6.3	5.3	7.7	6.4
ALLAIRE	7.3	4.0	7.7	6.3
BAR LP 454	6.0	4.0	9.0	6.3
MANHATTAN II	5.7	4.7	8.7	6.3
RANGER	7.0	4.0	8.0	6.3
RODEO	6.0	4.0	9.0	6.3
PATRIOT	6.7	4.0	7.7	6.1
PST-2DD	6.7	4.3	7.3	6.1
PSU-333	7.3	5.3	5.7	6.1

TABLE 19. BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(CONT'D) 1987 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	IN1	NJ2	VA1	MEAN
REGENCY	6.0	3.7	8.3	6.0
246	7.0	3.3	7.3	5.9
PST-250 (COMPETITOR)	5.0	5.0	7.7	5.9
PAVO	7.0	2.7	7.7	5.8
RIVAL	5.3	3.0	9.0	5.8
NK 80389	7.7	3.0	6.3	5.7
ISI-K2 (DILLON)	7.0	3.3	6.3	5.6
RONJA	5.7	2.0	9.0	5.6
RUNAWAY	4.3	3.3	9.0	5.6
VINTAGE-2DF	5.3	3.7	7.0	5.3
BARRY	5.7	3.0	7.0	5.2
J207	5.7	2.3	7.3	5.1
J208	4.7	2.3	7.3	4.8
MANHATTAN	4.3	1.7	8.3	4.8
LINN	4.0	1.0	7.3	4.1
LSD VALUE	2.2	1.6	2.0	1.1

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).